

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NJ WASTE WATER PT

CHEMTECH CONSULTING GROUP

284 Sheffield St,

Mountainside, NJ - 07092

Phone No: 908-789-8900

ORDER ID : P3845

ATTENTION : QA Officer



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number

P3845-01
P3845-02
P3845-03
P3845-04
P3845-05
P3845-06
P3845-07
P3845-08
P3845-09
P3845-10
P3845-11
P3845-12
P3845-13
P3845-14
P3845-15
P3845-16
P3845-17
P3845-18
P3845-19
P3845-20
P3845-21
P3845-22

Client Sample Number

PT-VOA-WP
PT-VOA-WP
PT-BN-WP
PT-BN-WP
PT-BN-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-ACIDS-WP
PT-PEST-WP
PT-PEST-WP
PT-CHLR-WP
PT-CHLR-WP
PT-TXP-WP
PT-TXP-WP
PT-PCBW-WP
PT-PCBW-WP
PT-HERB-WP
RR-GAS-WP
RR-DIES-WP
RR-8011-WP
RR-PAH-WP
RR-TRIAZINE-WP

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 : N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

Nimisha Pandya, QA/QC Supervisor , 10/28/2024, 10:48:19 AM

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Chemtech Consulting Group

Project Name: NJ Waste Water PT

Project # N/A

Chemtech Project # P3845

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

22 Water samples were received on 09/05/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PT-BN-WP [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%], PT-BN-WPDL [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%], PB163341BS [2-Fluorophenol - 102% and Phenol-d6 - 101%], This sample was extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {PB163341BSD} with File ID: BN034053.D met criteria except for 1,4-Dioxane[35%], Atrazine[34%], due to difference in results of BS and BSD.

The Blank Spike for {PB163341BS} with File ID: BN034052.D met requirements for all samples except for Hexachlorobenzene[128%], marginally high therefore no corrective action was taken.

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 met the requirements .
The Tuning criteria met requirements.

Sample PT-BN-WP was diluted due to high concentration.

E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature _____

N. N. Pandya

APPROVED

Nimisha Pandya, QA/QC Supervisor , 10/28/2024, 10:48:33 AM

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: P3845

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 met the requirements .			
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 PT-BN-WP [2- Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%], PT-BN-WPDL [2- Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%], PB163341BS [2-Fluorophenol - 102% and Phenol-d6 - 101%], This sample was extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.			

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

(CONTINUED)

		NA	NO	YES
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 for {PB163341BS} with File ID: BN034052.D met requirements for all samples except for Hexachlorobenzene[128%], marginally high therefore no corrective action was taken.			
	The Blank Spike Duplicate met requirements for all samples .			
	The RPD for {PB163341BSD} with File ID: BN034053.D met criteria except for 1,4-Dioxane[35%], Atrazine[34%], due to difference in results of BS and BSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Sample PT-BN-WP was diluted due to high concentration.

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

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

S. M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:12 am, Oct 28, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3845

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: 10/10/2024

LAB CHRONICLE

OrderID:	P3845	OrderDate:	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	Project:	NJ Waste Water PT
Contact:	QA Officer	Location:	QA Office, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-03	PT-BN-WP	Water			09/03/24			09/05/24
			SVOCMS Group1	8270E		09/12/24	09/16/24	
P3845-03DL	PT-BN-WPDL	Water			09/03/24			09/05/24
			SVOCMS Group1	8270E		09/12/24	09/16/24	
P3845-05	PT-BN-WP	Water			09/03/24			09/05/24
			SVOCMS Group3	8270-Modified		09/12/24	09/19/24	
P3845-05DL	PT-BN-WPDL	Water			09/03/24			09/05/24
			SVOCMS Group3	8270-Modified		09/12/24	09/19/24	
P3845-06	PT-ACIDS-WP	Water			09/03/24			09/05/24
			SVOCMS Group2	8270E		09/12/24	09/16/24	
P3845-06DL	PT-ACIDS-WPDL	Water			09/03/24			09/05/24
			SVOCMS Group2	8270E		09/12/24	09/16/24	

Hit Summary Sheet SW-846

SDG No.: P3845
Client: Chemtech Consulting Group

Sample ID	Client ID		Parameter	Concentration	C	MDL		RDL	Units
Client ID : PT-BN-WP									
P3845-05	PT-BN-WP	WATER	n-Nitrosodimethylamine	99.500	E	0.03		0.2	ug/L
P3845-05	PT-BN-WP	WATER	Hexachlorobutadiene	57.100	E	0.03		0.1	ug/L
P3845-05	PT-BN-WP	WATER	Hexachlorobenzene	130.000	EQ	0.03		0.1	ug/L
Total Svoc :				286.60					
Total Concentration:				286.60					
Client ID : PT-BN-WPDL									
P3845-05DL	PT-BN-WPDL	WATER	n-Nitrosodimethylamine	120.000	D	1.5		10	ug/L
P3845-05DL	PT-BN-WPDL	WATER	Hexachlorobutadiene	73.800	D	1.3		5	ug/L
P3845-05DL	PT-BN-WPDL	WATER	Hexachlorobenzene	150.000	DQ	1.5		5	ug/L
Total Svoc :				343.80					
Total Concentration:				343.80					



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3845-05	PT-BN-WP	2-Methylnaphthalene-d10	0.4	0	0	*	20	139
		Fluoranthene-d10	0.4	0	0	*	30	150
		Nitrobenzene-d5	0.4	101	25264	*	27	123
		2-Fluorobiphenyl	0.4	75.2	18800	*	34	132
		Terphenyl-d14	0.4	84.9	21231	*	35	157
P3845-05DL	PT-BN-WPDL	2-Methylnaphthalene-d10	0.4	0	0	*	20	139
		Fluoranthene-d10	0.4	0	0	*	30	150
		Nitrobenzene-d5	0.4	101	25200	*	27	123
		2-Fluorobiphenyl	0.4	101	25313	*	34	132
		Terphenyl-d14	0.4	127	31800	*	35	157
PB163341BL	PB163341BL	2-Methylnaphthalene-d10	0.4	0.32	79		20	139
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.30	75		27	123
		2-Fluorobiphenyl	0.4	0.35	86		34	132
		Terphenyl-d14	0.4	0.44	109		35	157
PB163341BS	PB163341BS	2-Methylnaphthalene-d10	0.4	0.39	97		20	139
		Fluoranthene-d10	0.4	0.55	137		30	150
		Nitrobenzene-d5	0.4	0.39	97		27	123
		2-Fluorobiphenyl	0.4	0.41	103		34	132
		Terphenyl-d14	0.4	0.55	137		35	157
PB163341BSD	PB163341BSD	2-Methylnaphthalene-d10	0.4	0.36	89		20	139
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.36	90		27	123
		2-Fluorobiphenyl	0.4	0.50	126		34	132
		Terphenyl-d14	0.4	0.38	94		35	157

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified DataFile: BN034052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB163341BS	n-Nitrosodimethylamine	0.4	0.40	ug/L	100				33	130	
	Hexachlorobutadiene	0.4	0.41	ug/L	103				33	114	
	Hexachlorobenzene	0.4	0.51	ug/L	128		*		62	127	
	Atrazine	0.4	0.48	ug/L	120				20	150	
	1,4-Dioxane	0.4	0.40	ug/L	100				42	127	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified DataFile: BN034053.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	RPD		Low	Limits	
							Qual	Qual		High	RPD
PB163341BSD	n-Nitrosodimethylamine	0.4	0.40	ug/L	100	0			33	130	20
	Hexachlorobutadiene	0.4	0.39	ug/L	98	5			33	114	20
	Hexachlorobenzene	0.4	0.42	ug/L	105	19			62	127	20
	Atrazine	0.4	0.34	ug/L	85	34	*		20	150	20
	1,4-Dioxane	0.4	0.28	ug/L	70	35	*		42	127	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163341BL

Lab Name: CHEMTECH

Contract: CHEM02

Lab Code: CHEM Case No.: P3845

SAS No.: P3845 SDG NO.: P3845

Lab File ID: BN034047.D

Lab Sample ID: PB163341BL

Instrument ID: BNA_N

Date Extracted: 09/12/2024

Matrix: (soil/water) Water

Date Analyzed: 09/19/2024

Level: (low/med) LOW

Time Analyzed: 10:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB163341BS	PB163341BS	BN034052.D	09/19/2024
PB163341BSD	PB163341BSD	BN034053.D	09/19/2024
PT-BN-WP	P3845-05	BN034050.D	09/19/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CHEM02Lab Code: CHEMSAS No.: P3845 SDG NO.: P3845Lab File ID: BN034032.DDFTPP Injection Date: 09/18/2024Instrument ID: BNA_NDFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.2
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	52.6
197	Less than 2.0% of mass 198	0.3
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	26.8
365	Greater than 1% of mass 198	3.5
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	12.1 (18.7) 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	BN034033.D	09/18/2024	11:53
SSTDICC0.2	SSTDICC0.2	BN034034.D	09/18/2024	12:29
SSTDICCC0.4	SSTDICCC0.4	BN034035.D	09/18/2024	13:05
SSTDICC0.8	SSTDICC0.8	BN034036.D	09/18/2024	13:41
SSTDICC1.6	SSTDICC1.6	BN034037.D	09/18/2024	14:17
SSTDICC3.2	SSTDICC3.2	BN034038.D	09/18/2024	14:54
SSTDICC5.0	SSTDICC5.0	BN034039.D	09/18/2024	15:30



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: CHEM02Lab Code: CHEMSAS No.: P3845SDG NO.: P3845Lab File ID: BN034045.DDFTPP Injection Date: 09/19/2024Instrument ID: BNA_NDFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
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	6.9
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.7 (19.2) 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	BN034046.D	09/19/2024	09:33
PB163341BL	PB163341BL	BN034047.D	09/19/2024	10:09
PT-BN-WP	P3845-05	BN034050.D	09/19/2024	14:33
PT-BN-WPDL	P3845-05DL	BN034051.D	09/19/2024	15:31
PB163341BS	PB163341BS	BN034052.D	09/19/2024	16:27
PB163341BSD	PB163341BSD	BN034053.D	09/19/2024	17:03

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 09/19/2024

Lab File ID: BN034046.D Time Analyzed: 09:33

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	7320	7.438	21524	10.19	11978	14.08
UPPER LIMIT	14640	7.938	43048	10.691	23956	14.583
LOWER LIMIT	3660	6.938	10762	9.691	5989	13.583
EPA SAMPLE NO.						
01 PB163341BS	8638	7.43	24792	10.19	13364	14.08
02 PB163341BSD	6385	7.44	18900	10.19	7692	14.08
03 PT-BN-WP	8708	7.43	27951	10.19	16309	14.08
04 PB163341BL	7708	7.44	19759	10.20	10160	14.08
05 PT-BN-WPDL	7820	7.43	23087	10.19	14195	14.08

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.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 09/19/2024

Lab File ID: BN034046.D Time Analyzed: 09:33

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	26692	16.833	20522	21.062	20864	23.189
UPPER LIMIT	53384	17.333	41044	21.562	41728	23.689
LOWER LIMIT	13346	16.333	10261	20.562	10432	22.689
EPA SAMPLE NO.						
01 PB163341BS	22485	16.83	18706	21.06	24163	23.19
02 PB163341BSD	17049	16.83	13235	21.06	12101	23.19
03 PT-BN-WP	36587	16.83	29264	21.07	24456	23.20
04 PB163341BL	21734	16.85	14035	21.06	11710	23.19
05 PT-BN-WPDL	31128	16.83	25511	21.06	25402	23.20

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-BN-WP	SDG No.:	P3845
Lab Sample ID:	P3845-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034050.D	1	09/12/24 12:00	09/19/24 14:33	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	99.5	E	0.030	0.20	ug/L
87-68-3	Hexachlorobutadiene	57.1	E	0.030	0.10	ug/L
118-74-1	Hexachlorobenzene	130	EQ	0.030	0.10	ug/L
1912-24-9	Atrazine	0.020	U	0.020	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	20 - 139	0%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0	*	30 - 150	0%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	101	*	27 - 123	25264%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	75.2	*	34 - 132	18800%	SPK: 0.4
1718-51-0	Terphenyl-d14	84.9	*	35 - 157	21231%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8710		7.431		
1146-65-2	Naphthalene-d8	28000		10.191		
15067-26-2	Acenaphthene-d10	16300		14.083		
1517-22-2	Phenanthrene-d10	36600		16.833		
1719-03-5	Chrysene-d12	29300		21.071		
1520-96-3	Perylene-d12	24500		23.198		

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\BN091924\
 Data File : BN034050.D
 Acq On : 19 Sep 2024 14:33
 Operator : JU/RC
 Sample : P3845-05
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-BN-WP

Quant Time: Sep 19 15:06:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

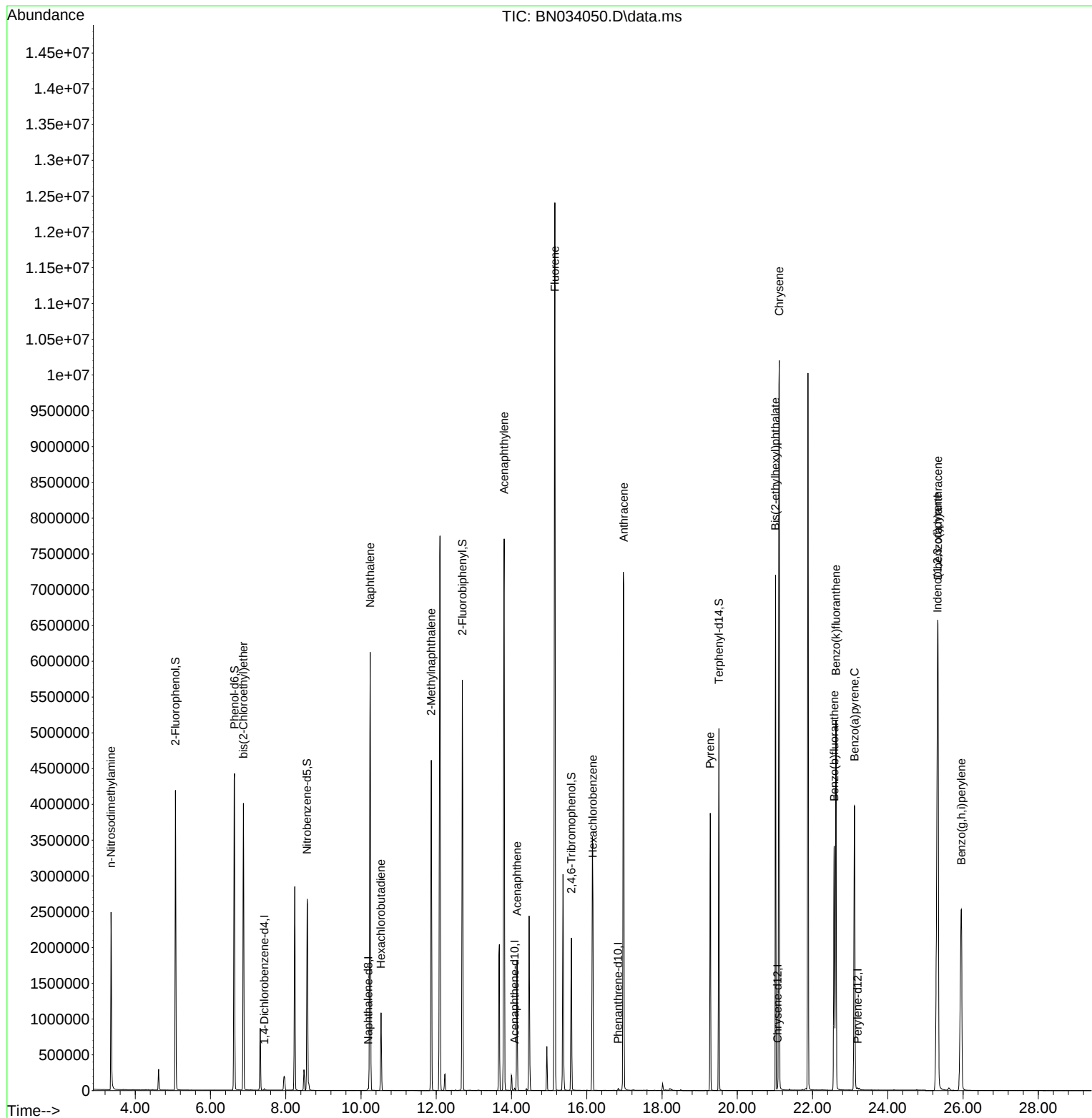
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.431	152	8708	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	27951	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	16309	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	36587	0.400	ng	# 0.00
29) Chrysene-d12	21.071	240	29264	0.400	ng	# 0.01
35) Perylene-d12	23.198	264	24456	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.069	112	3016084	122.043	ng	0.00
5) Phenol-d6	6.636	99	4127265	143.580	ng	0.00
8) Nitrobenzene-d5	8.568	82	2160680	101.057	ng	0.00
11) 2-Methylnaphthalene-d10	11.780	152	6	0.000	ng	-0.01
14) 2,4,6-Tribromophenol	15.592	330	1165156	157.694	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	4988190	75.200	ng	0.00
27) Fluoranthene-d10	18.881	212	22	0.000	ng	0.00
31) Terphenyl-d14	19.512	244	4963483	84.923	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.357	42	1232677	99.470	ng	# 93
6) bis(2-Chloroethyl)ether	6.874	93	2662032	104.672	ng	97
9) Naphthalene	10.244	128	7999941	104.287	ng	99
10) Hexachlorobutadiene	10.532	225	825388	57.109	ng	# 99
12) 2-Methylnaphthalene	11.867	142	3430110	68.709	ng	98
16) Acenaphthylene	13.805	152	9000919	128.932	ng	98
17) Acenaphthene	14.147	154	890037	17.775	ng	97
18) Fluorene	15.152	166	7822950	119.059	ng	96
22) Hexachlorobenzene	16.163	284	2991898	129.743	ng	94
26) Anthracene	16.982	178	8846108	103.175	ng	98
30) Pyrene	19.280	202	3489688	28.253	ng	99
33) Chrysene	21.116	228	9720934	88.016	ng	96
34) Bis(2-ethylhexyl)phtha...	21.017	149	5145035	133.413	ng	# 92
36) Indeno(1,2,3-cd)pyrene	25.320	276	7703160	73.508	ng	98
37) Benzo(b)fluoranthene	22.575	252	4311382	45.004	ng	# 94
38) Benzo(k)fluoranthene	22.622	252	6048310	60.141	ng	# 90
39) Benzo(a)pyrene	23.113	252	5477696	70.150	ng	# 88
40) Dibenzo(a,h)anthracene	25.332	278	5437200	66.791	ng	97
41) Benzo(g,h,i)perylene	25.952	276	4936819	53.993	ng	99

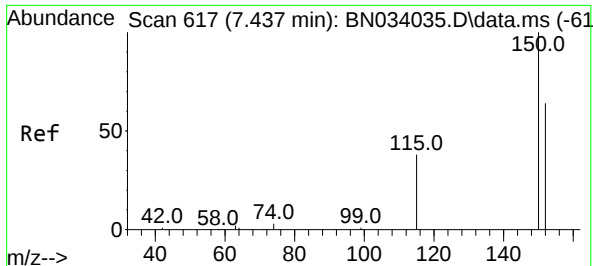
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034050.D
Acq On : 19 Sep 2024 14:33
Operator : JU/RC
Sample : P3845-05
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

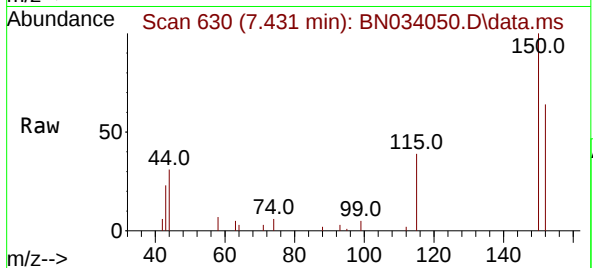
Quant Time: Sep 19 15:06:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



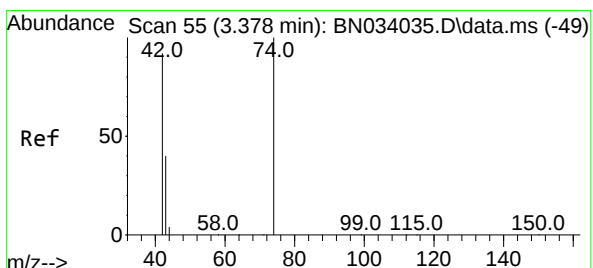
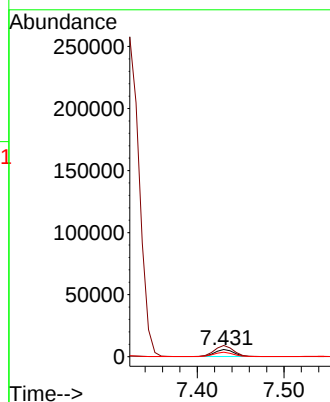
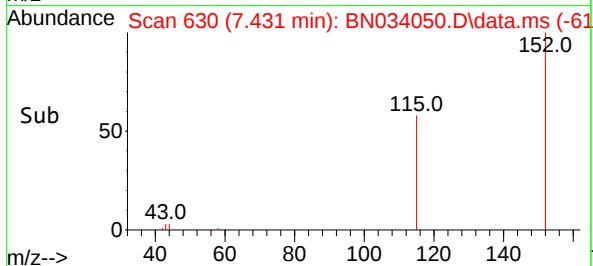


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.431 min Scan# 61
Delta R.T. -0.006 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

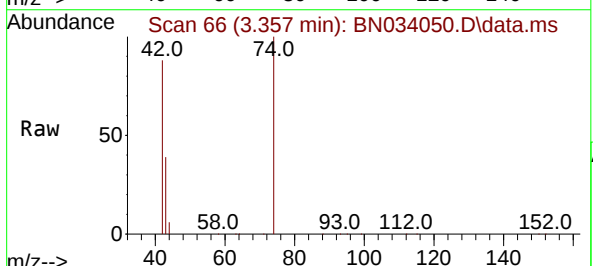
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP



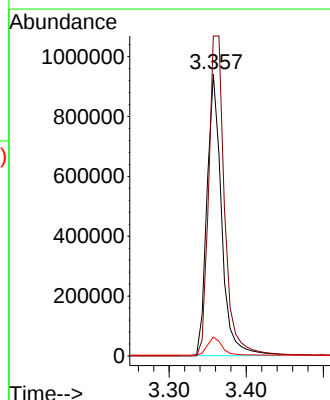
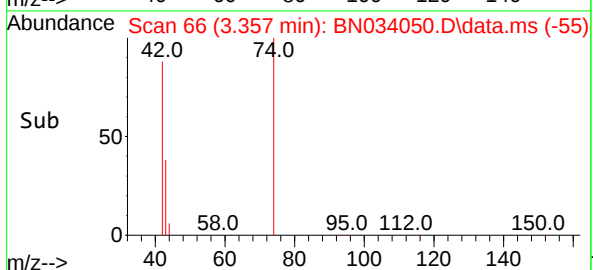
Tgt Ion:152 Resp: 8708
Ion Ratio Lower Upper
152 100
150 155.5 124.6 187.0
115 61.3 50.0 75.0

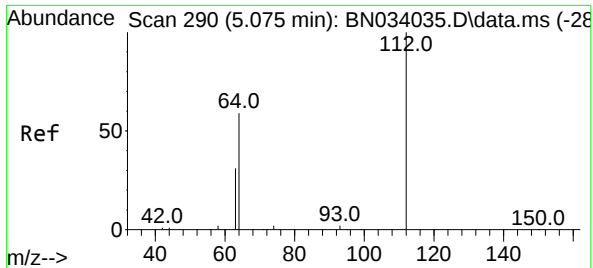


#3
n-Nitrosodimethylamine
Concen: 99.470 ng
RT: 3.357 min Scan# 66
Delta R.T. -0.021 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33



Tgt Ion: 42 Resp: 1232677
Ion Ratio Lower Upper
42 100
74 123.9 94.6 142.0
44 6.5 12.4 18.6#

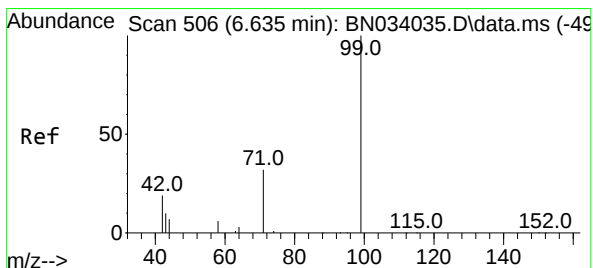
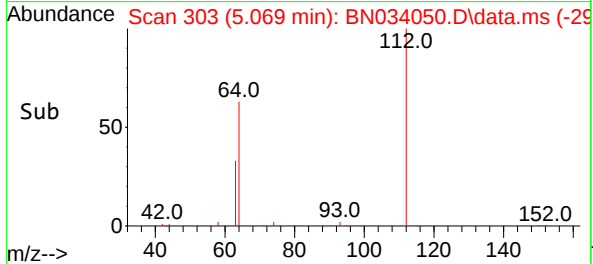
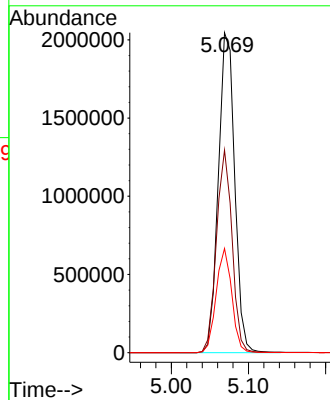
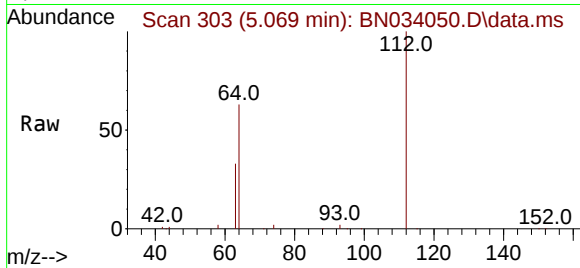




#4
2-Fluorophenol
Concen: 122.043 ng
RT: 5.069 min Scan# 30
Delta R.T. -0.006 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

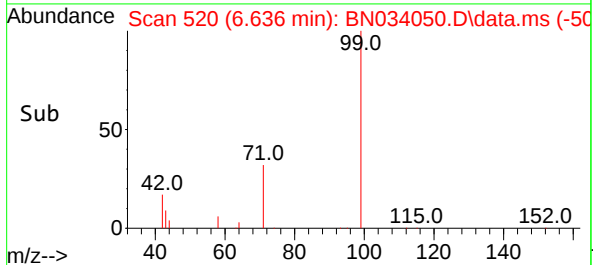
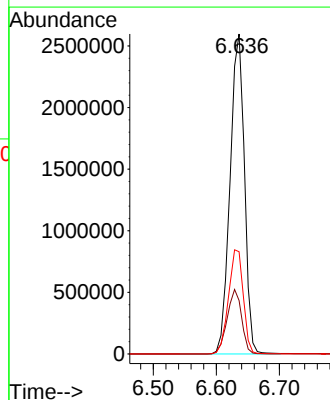
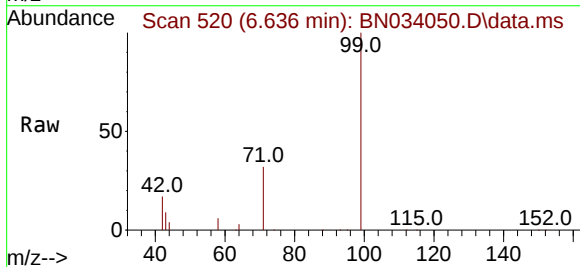
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

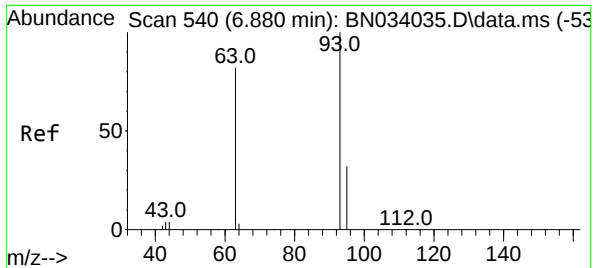
Tgt Ion:112 Resp: 3016084
Ion Ratio Lower Upper
112 100
64 60.5 48.6 72.8
63 31.2 25.6 38.4



#5
Phenol-d6
Concen: 143.580 ng
RT: 6.636 min Scan# 520
Delta R.T. 0.001 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion: 99 Resp: 4127265
Ion Ratio Lower Upper
99 100
42 20.2 17.8 26.8
71 33.5 26.2 39.2

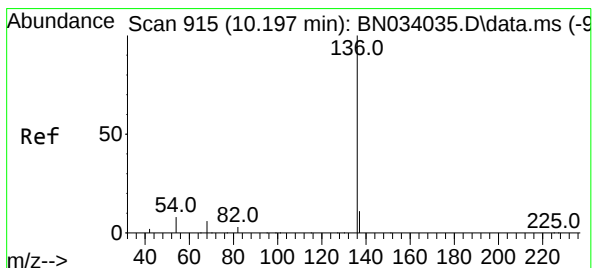
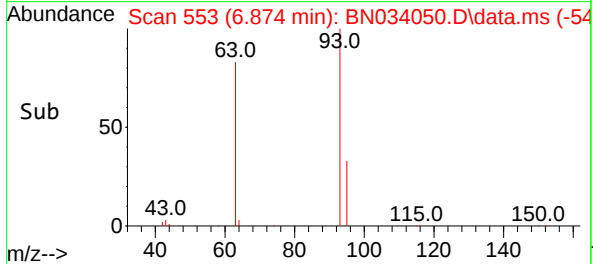
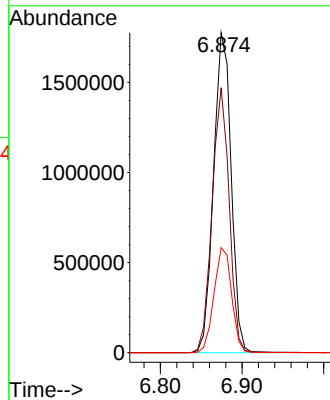
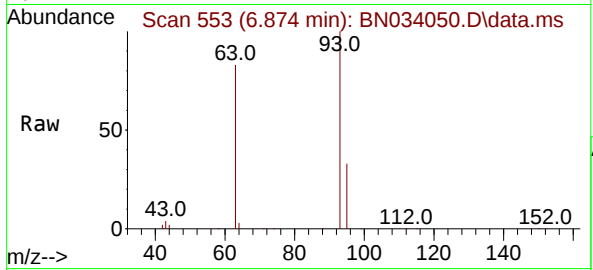




#6
bis(2-Chloroethyl)ether
Concen: 104.672 ng
RT: 6.874 min Scan# 511
Delta R.T. -0.006 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

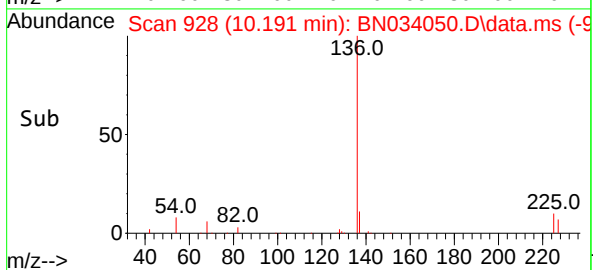
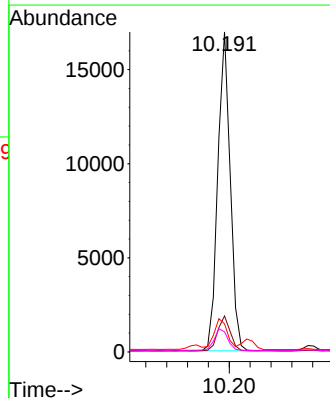
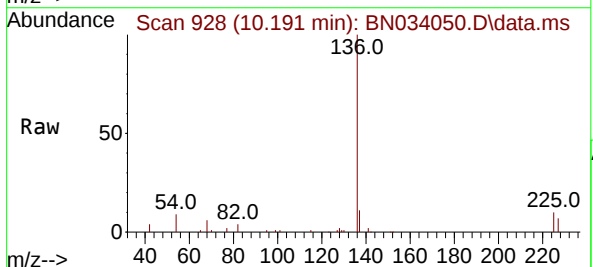
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

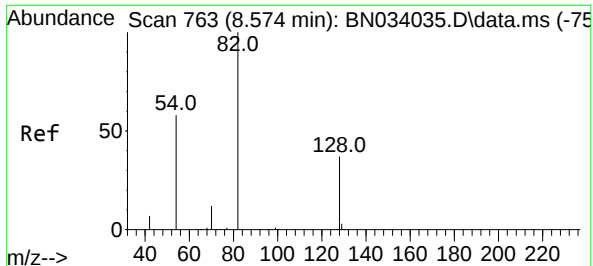
Tgt Ion: 93 Resp: 2662032
Ion Ratio Lower Upper
93 100
63 80.3 67.3 100.9
95 32.9 26.8 40.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 928
Delta R.T. -0.006 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:136 Resp: 27951
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 8.8 6.8 10.2
68 6.3 5.0 7.6

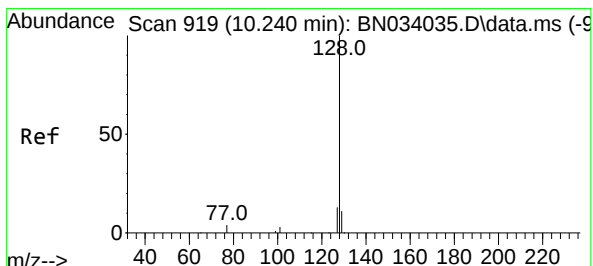
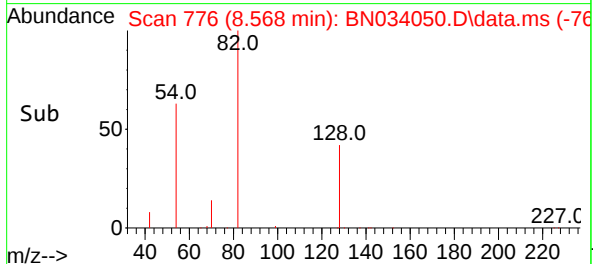
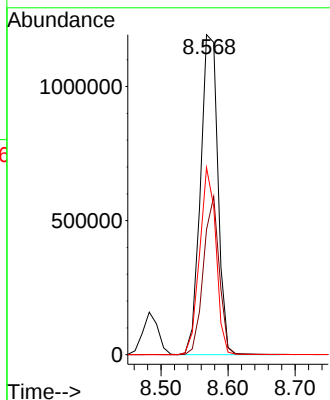
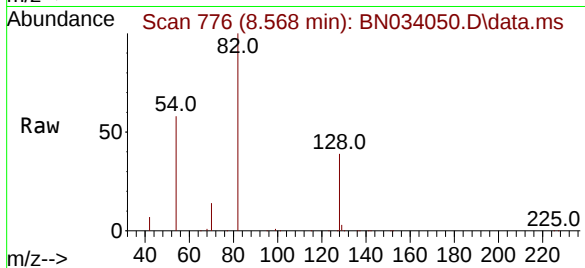




#8
Nitrobenzene-d5
Concen: 101.057 ng
RT: 8.568 min Scan# 71
Delta R.T. -0.006 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

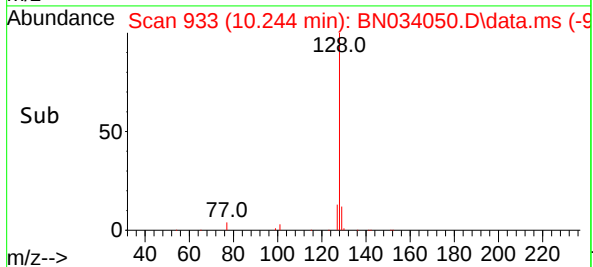
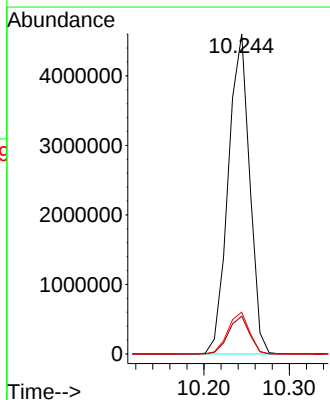
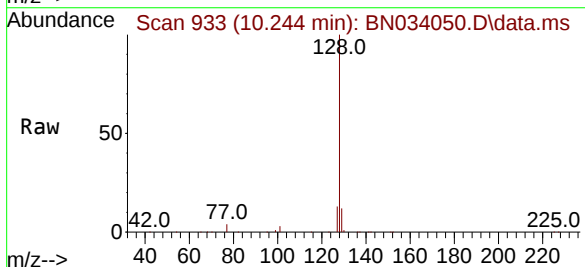
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

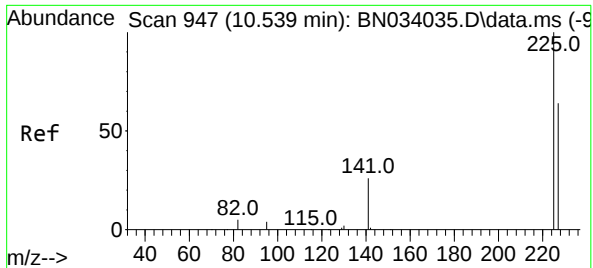
Tgt Ion: 82 Resp: 2160680
Ion Ratio Lower Upper
82 100
128 39.1 31.4 47.2
54 58.5 47.4 71.0



#9
Naphthalene
Concen: 104.287 ng
RT: 10.244 min Scan# 933
Delta R.T. 0.005 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion: 128 Resp: 7999941
Ion Ratio Lower Upper
128 100
129 11.8 9.2 13.8
127 13.0 10.7 16.1





#10

Hexachlorobutadiene

Concen: 57.109 ng

RT: 10.532 min Scan# 9

Delta R.T. -0.006 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

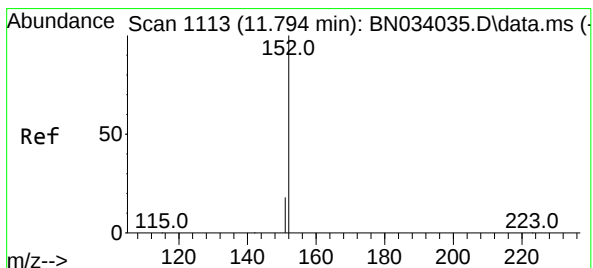
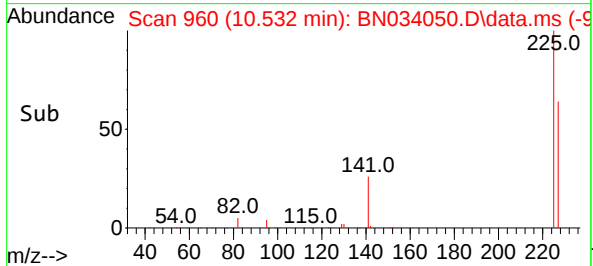
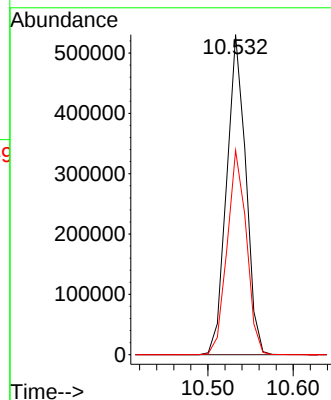
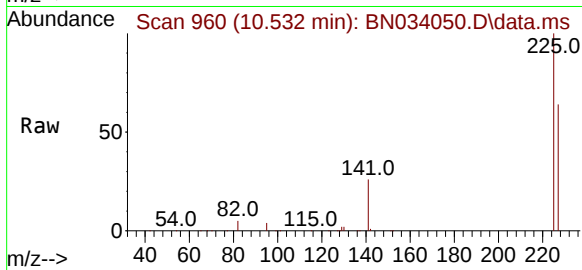
Tgt Ion:225 Resp: 825388

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.2 50.5 75.7



#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

RT: 11.780 min Scan# 1124

Delta R.T. -0.014 min

Lab File: BN034050.D

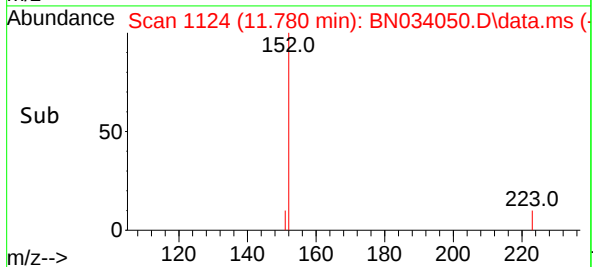
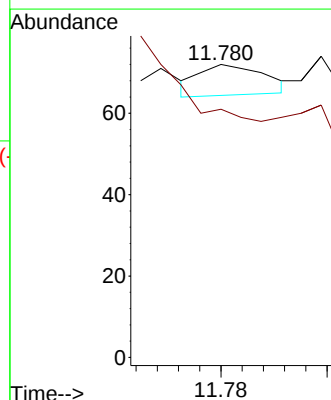
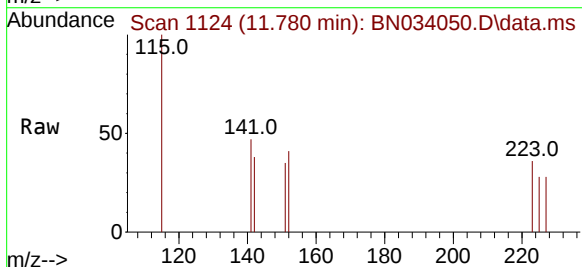
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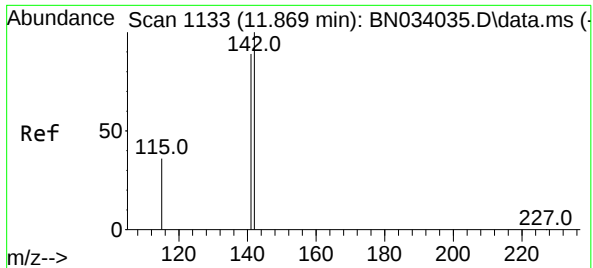
Tgt Ion:152 Resp: 6

Ion Ratio Lower Upper

152 100

151 0.0 16.8 25.2#





#12

2-Methylnaphthalene

Concen: 68.709 ng

RT: 11.867 min Scan# 1133

Delta R.T. -0.002 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

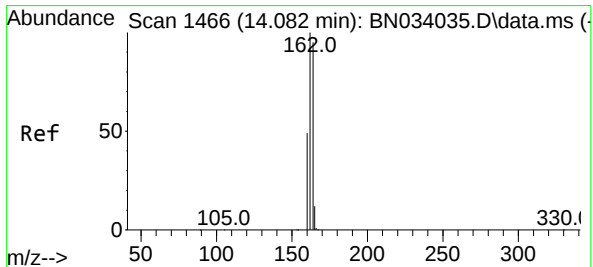
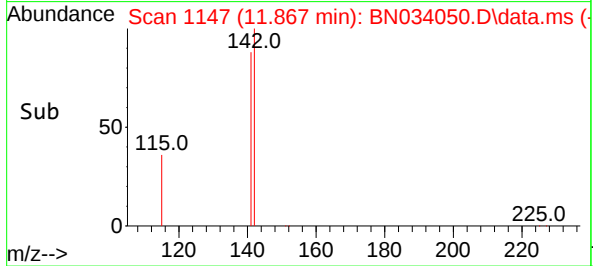
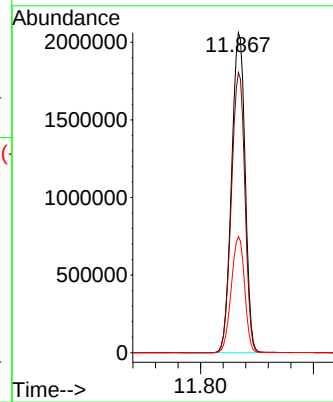
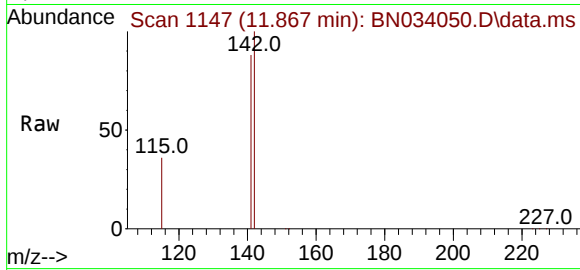
Tgt Ion:142 Resp: 3430110

Ion Ratio Lower Upper

142 100

141 87.6 71.6 107.4

115 36.3 30.0 45.0



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.083 min Scan# 1481

Delta R.T. 0.001 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

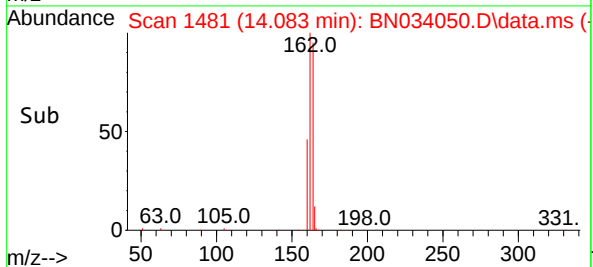
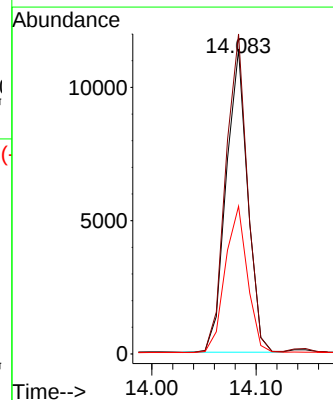
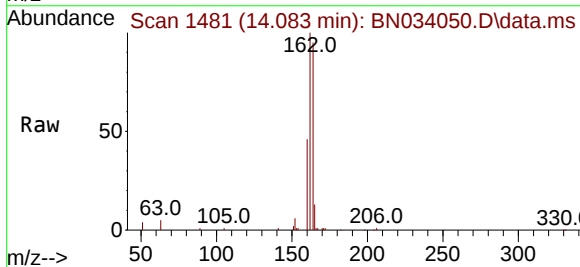
Tgt Ion:164 Resp: 16309

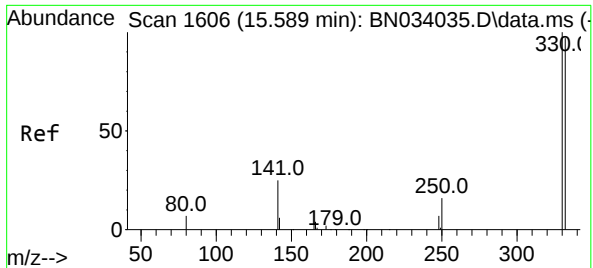
Ion Ratio Lower Upper

164 100

162 105.1 84.2 126.2

160 48.5 41.7 62.5

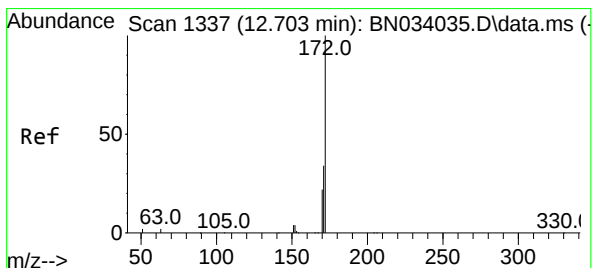
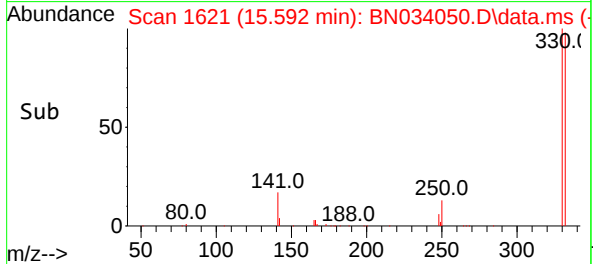
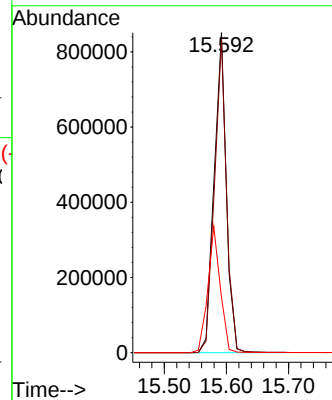
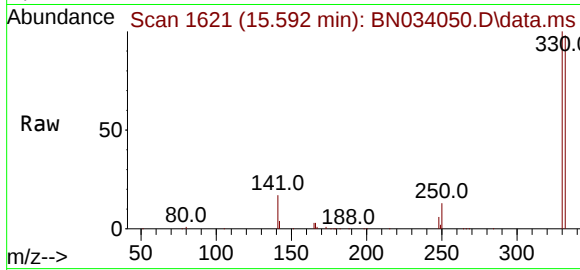




#14
2,4,6-Tribromophenol
Concen: 157.694 ng
RT: 15.592 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

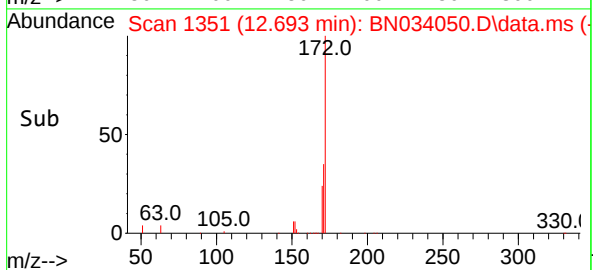
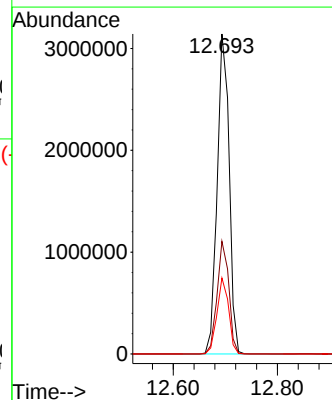
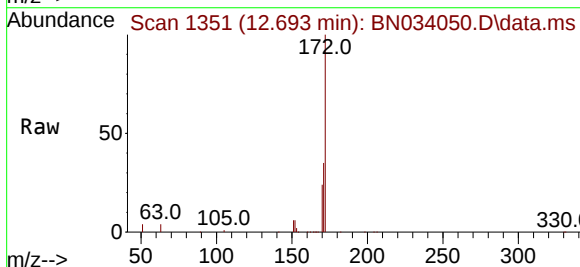
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

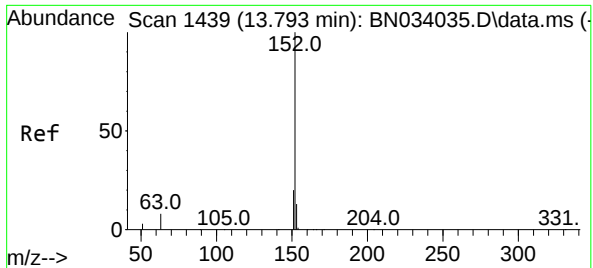
Tgt Ion:330 Resp: 1165156
Ion Ratio Lower Upper
330 100
332 96.8 77.4 116.0
141 40.1 35.9 53.9



#15
2-Fluorobiphenyl
Concen: 75.200 ng
RT: 12.693 min Scan# 1351
Delta R.T. -0.009 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:172 Resp: 4988190
Ion Ratio Lower Upper
172 100
171 35.2 27.3 40.9
170 23.8 18.1 27.1

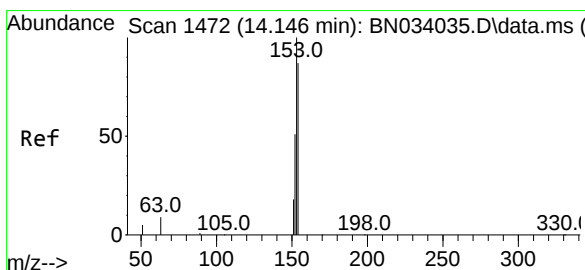
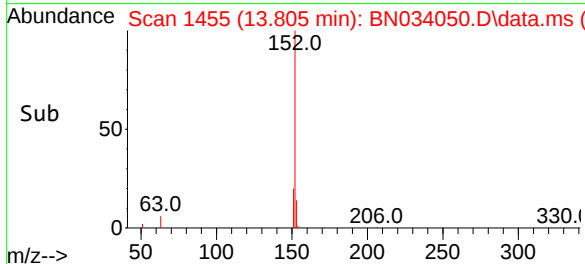
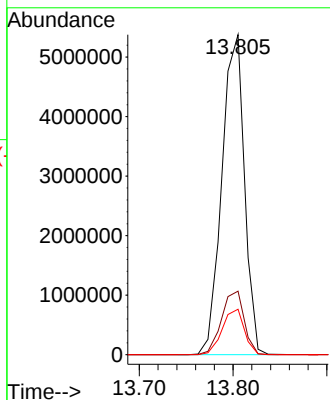
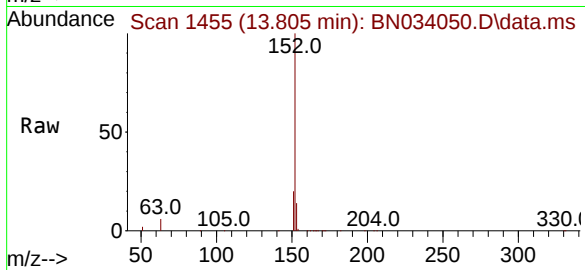




#16
Acenaphthylene
Concen: 128.932 ng
RT: 13.805 min Scan# 1439
Delta R.T. 0.012 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

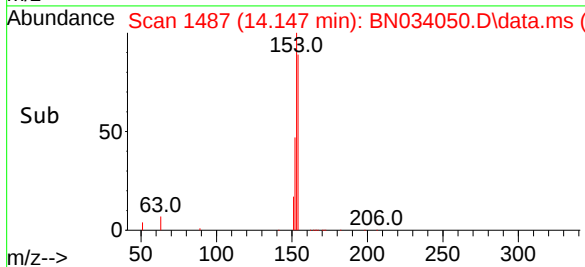
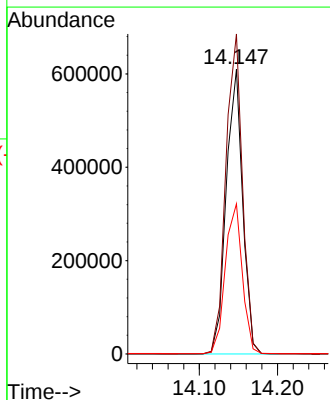
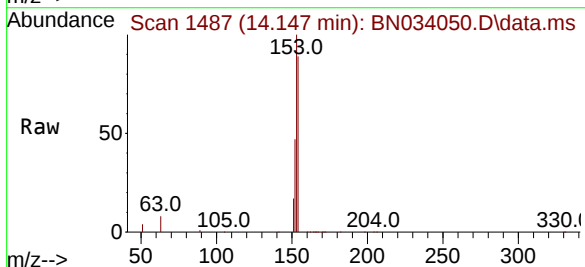
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

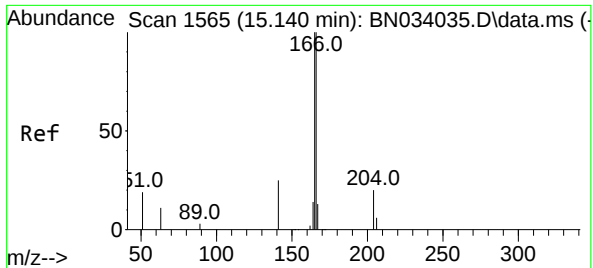
Tgt Ion:152 Resp: 9000919
Ion Ratio Lower Upper
152 100
151 20.0 15.6 23.4
153 14.0 10.3 15.5



#17
Acenaphthene
Concen: 17.775 ng
RT: 14.147 min Scan# 1487
Delta R.T. 0.001 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:154 Resp: 890037
Ion Ratio Lower Upper
154 100
153 113.7 91.6 137.4
152 54.5 47.4 71.2

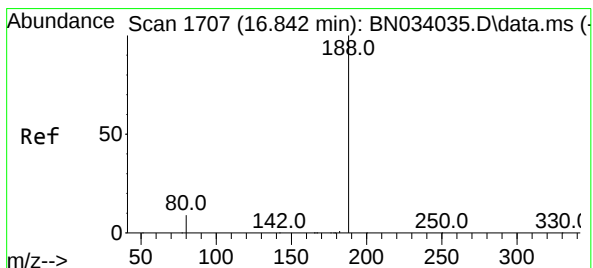
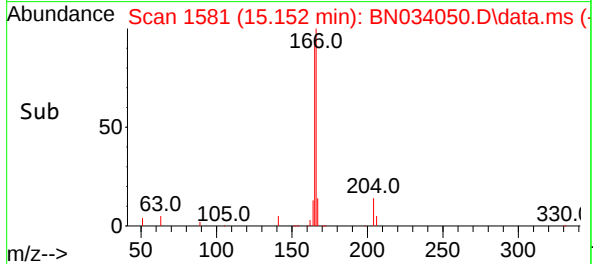
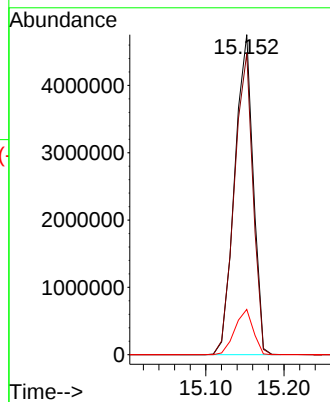
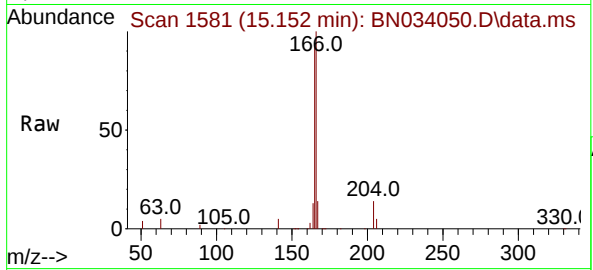




#18
Fluorene
Concen: 119.059 ng
RT: 15.152 min Scan# 1581
Delta R.T. 0.012 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

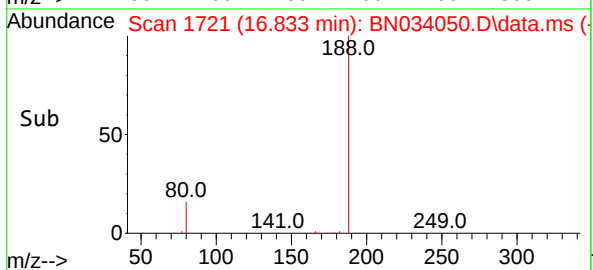
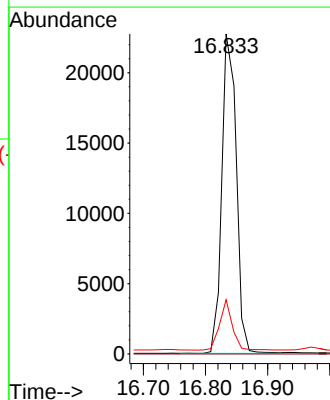
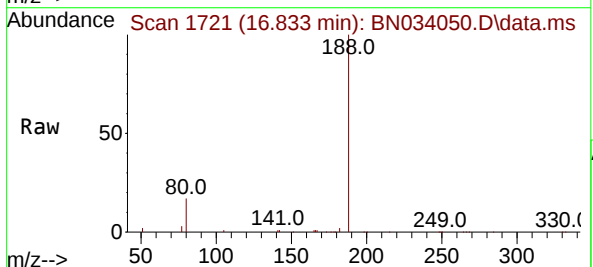
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

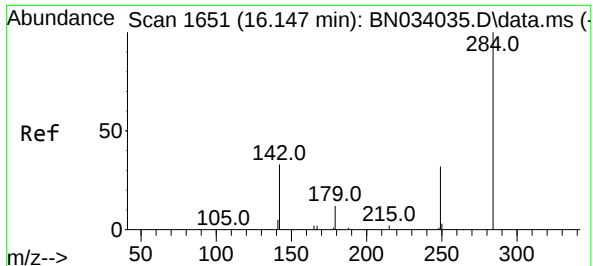
Tgt Ion:166 Resp: 7822950
Ion Ratio Lower Upper
166 100
165 94.7 79.1 118.7
167 14.0 10.6 15.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1721
Delta R.T. -0.009 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:188 Resp: 36587
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.9 7.4 11.0#





#22

Hexachlorobenzene

Concen: 129.743 ng

RT: 16.163 min Scan# 1

Delta R.T. 0.016 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

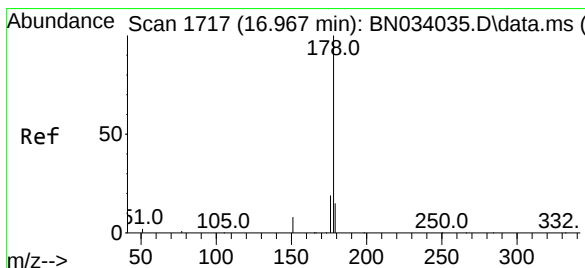
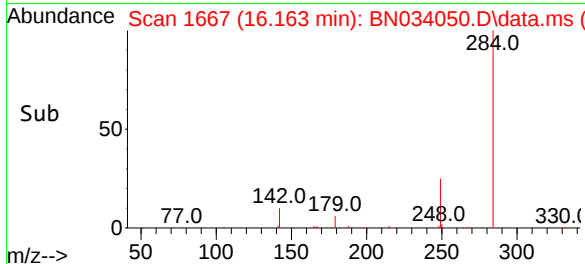
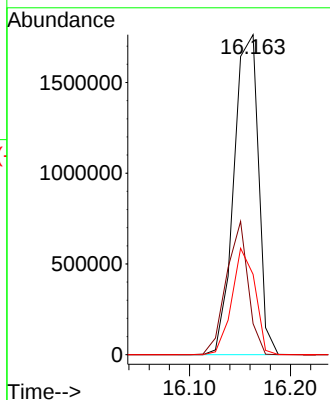
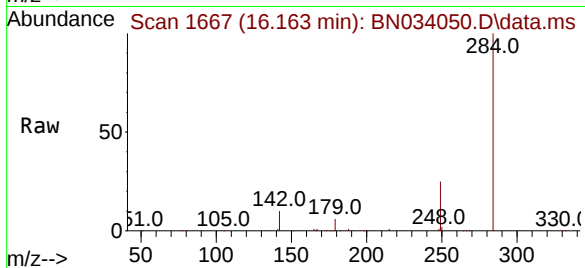
Tgt Ion:284 Resp: 2991898

Ion Ratio Lower Upper

284 100

142 37.0 34.5 51.7

249 31.3 25.8 38.6



#26

Anthracene

Concen: 103.175 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.016 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

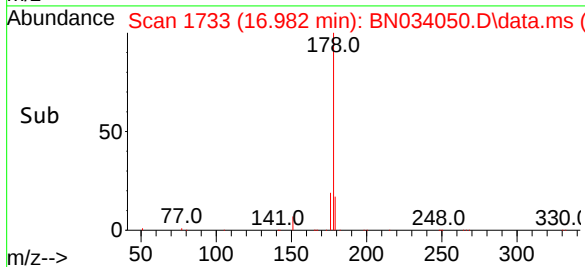
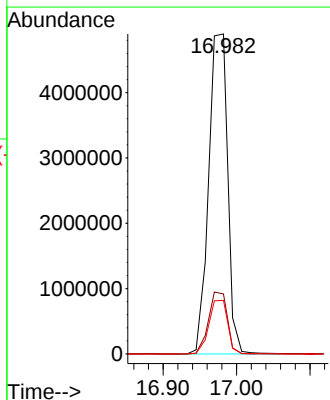
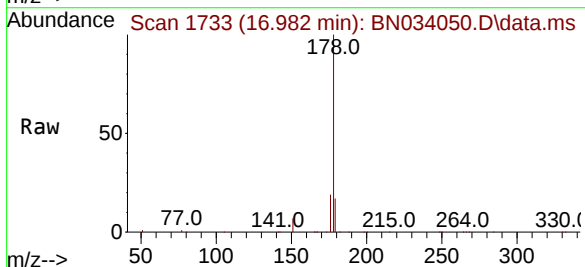
Tgt Ion:178 Resp: 8846108

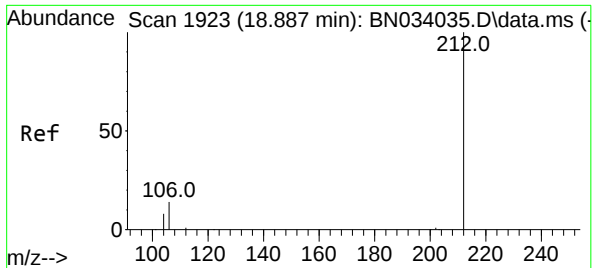
Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.6

179 16.5 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.000 ng

RT: 18.881 min Scan# 1923

Delta R.T. -0.006 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

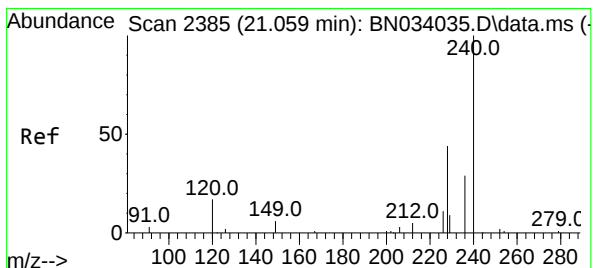
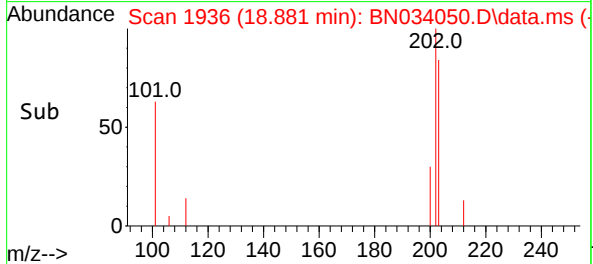
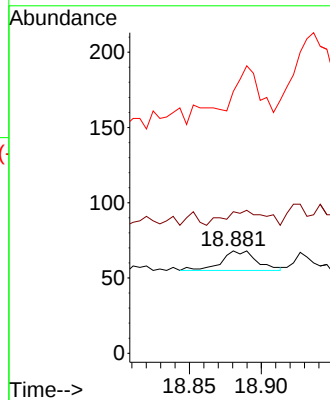
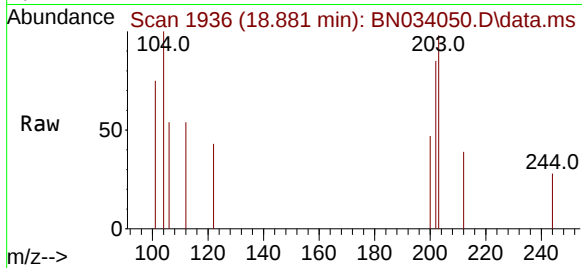
Tgt Ion:212 Resp: 22

Ion Ratio Lower Upper

212 100

106 86.4 13.4 20.2#

104 150.0 7.8 11.6#



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.071 min Scan# 2401

Delta R.T. 0.012 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

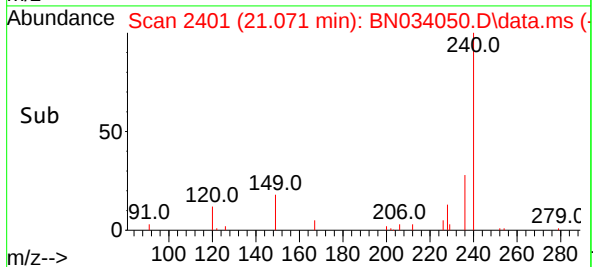
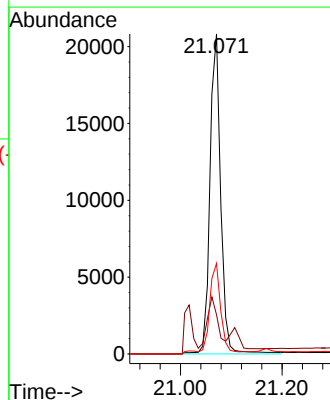
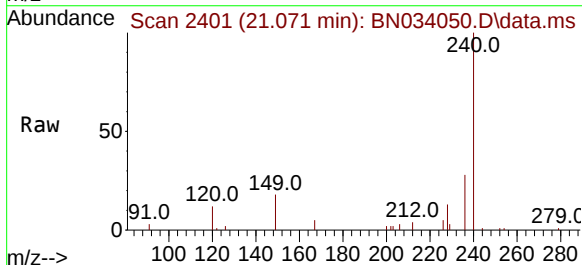
Tgt Ion:240 Resp: 29264

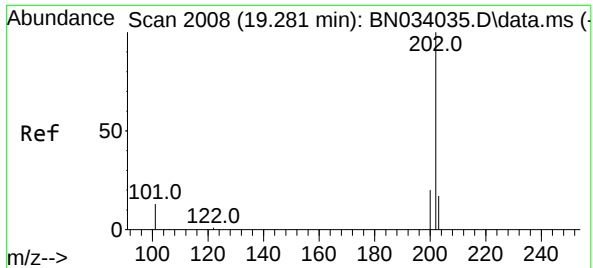
Ion Ratio Lower Upper

240 100

120 12.2 13.5 20.3#

236 28.3 23.4 35.0

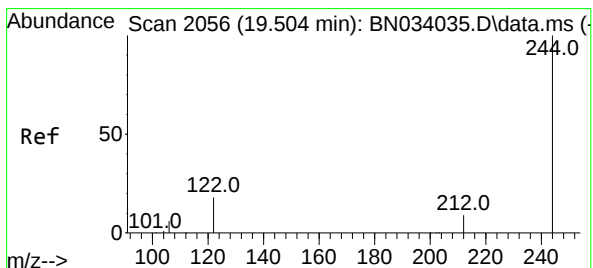
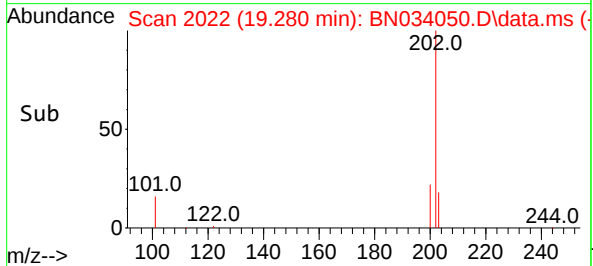
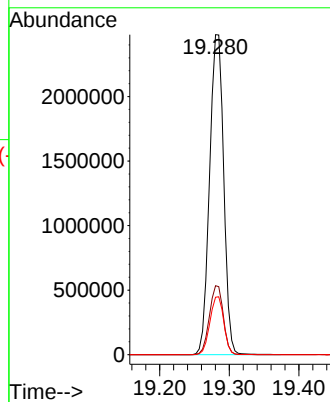
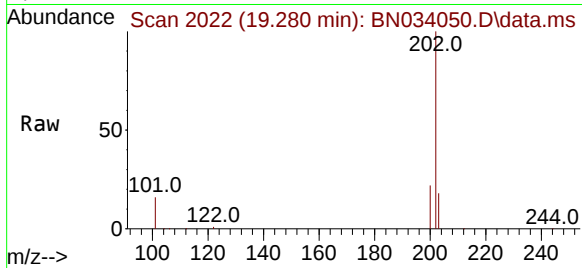




#30
Pyrene
Concen: 28.253 ng
RT: 19.280 min Scan# 2008
Delta R.T. -0.001 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

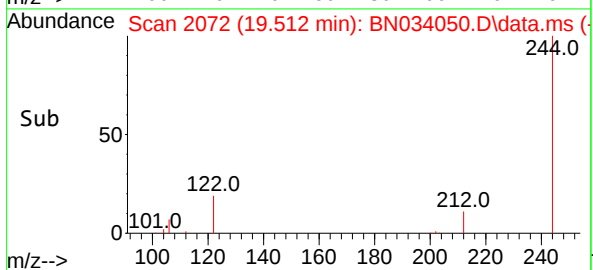
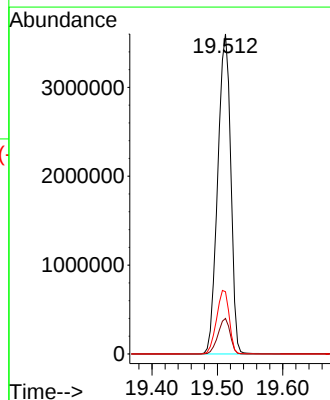
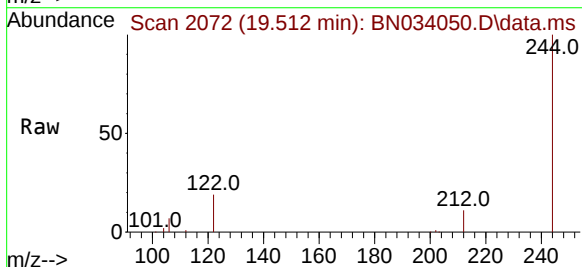
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

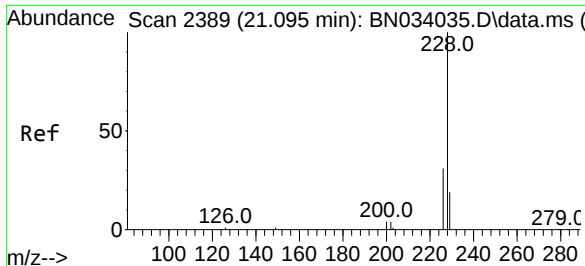
Tgt Ion:202 Resp: 3489688
Ion Ratio Lower Upper
202 100
200 21.2 16.6 25.0
203 17.8 14.3 21.5



#31
Terphenyl-d14
Concen: 84.923 ng
RT: 19.512 min Scan# 2072
Delta R.T. 0.008 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:244 Resp: 4963483
Ion Ratio Lower Upper
244 100
212 11.1 7.8 11.6
122 19.5 14.8 22.2





#33

Chrysene

Concen: 88.016 ng

RT: 21.116 min Scan# 2406

Delta R.T. 0.021 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

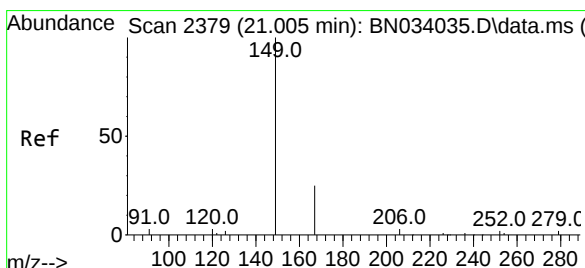
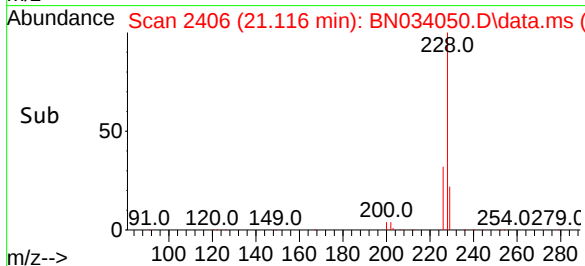
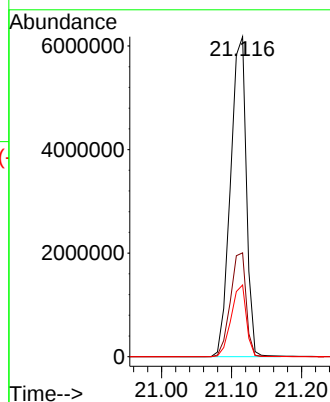
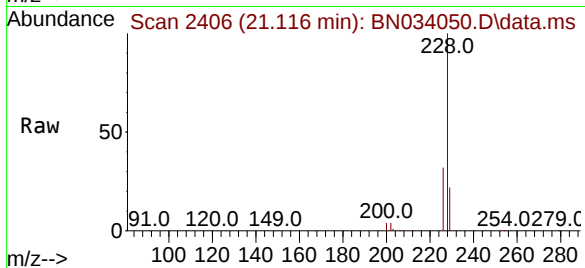
Tgt Ion:228 Resp: 9720934

Ion Ratio Lower Upper

228 100

226 32.4 24.6 37.0

229 22.4 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 133.413 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.012 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

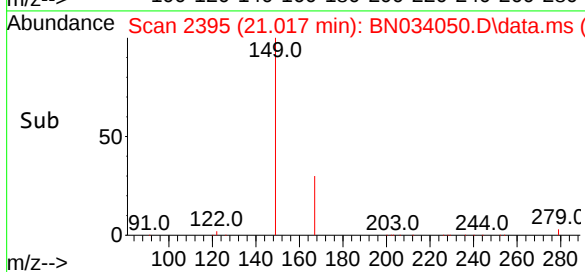
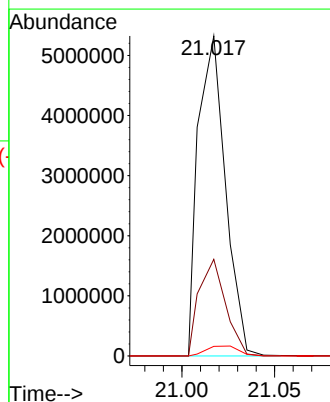
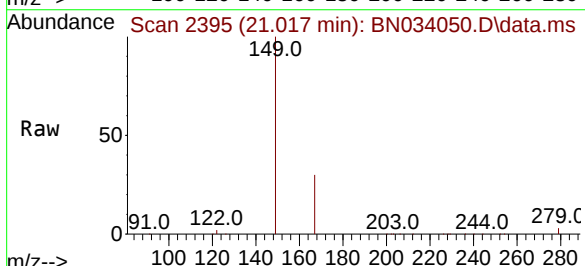
Tgt Ion:149 Resp: 5145035

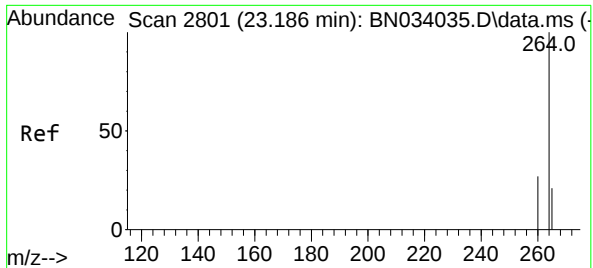
Ion Ratio Lower Upper

149 100

167 29.2 19.9 29.9

279 3.5 4.6 6.8#

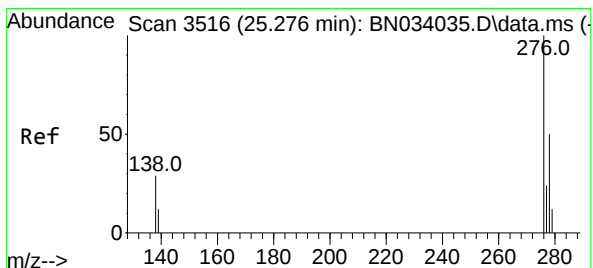
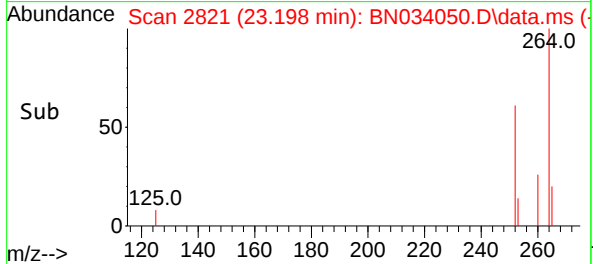
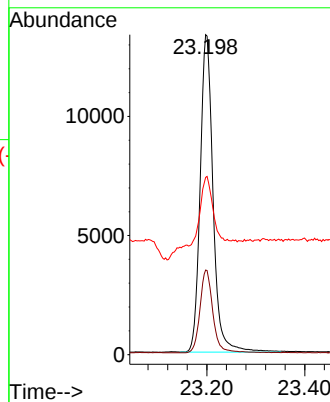
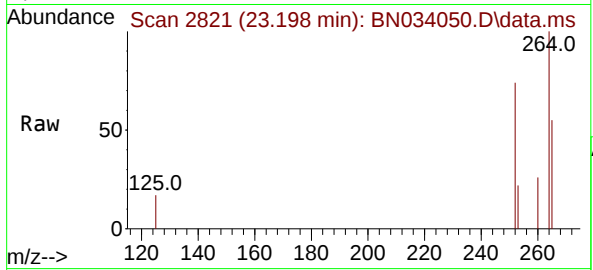




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.198 min Scan# 21
Delta R.T. 0.012 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

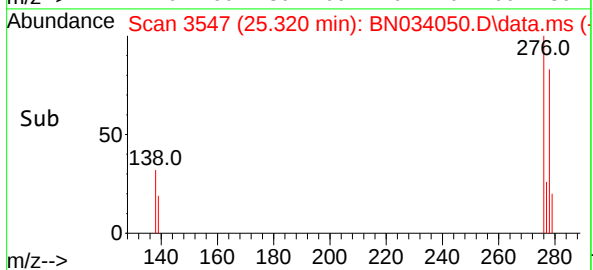
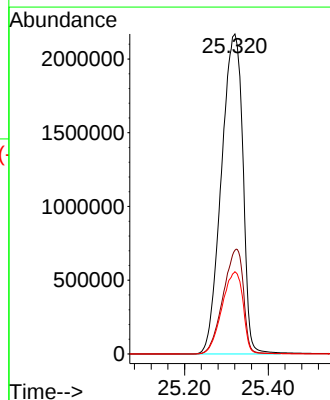
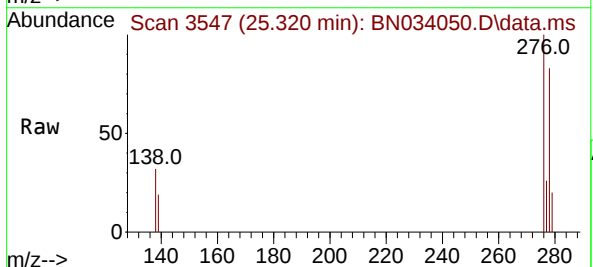
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

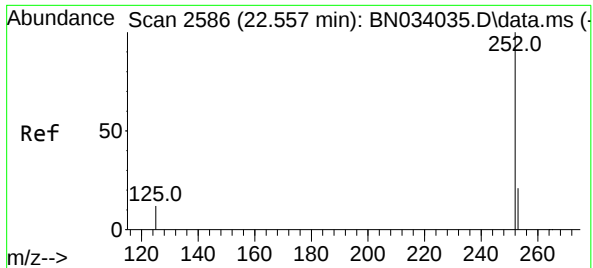
Tgt Ion:264 Resp: 24456
Ion Ratio Lower Upper
264 100
260 26.4 21.7 32.5
265 55.4 52.1 78.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 73.508 ng
RT: 25.320 min Scan# 3547
Delta R.T. 0.044 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:276 Resp: 7703160
Ion Ratio Lower Upper
276 100
138 31.2 25.9 38.9
277 25.3 19.7 29.5

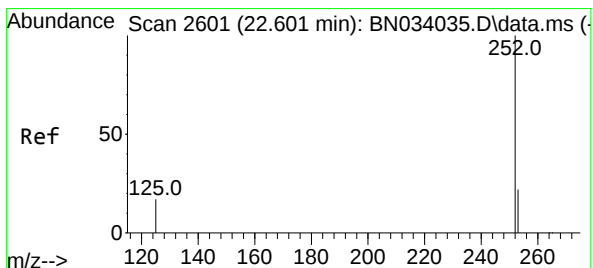
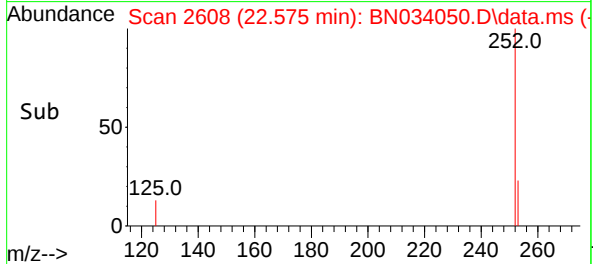
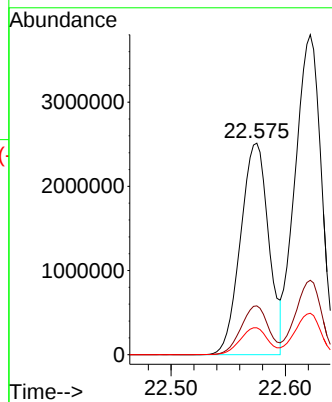
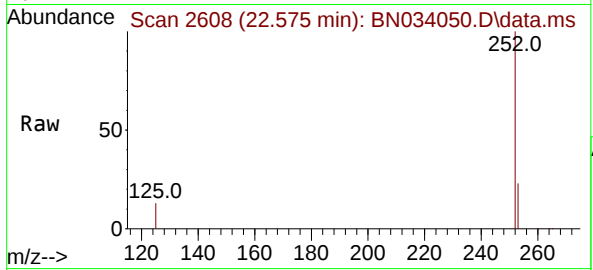




#37
Benzo(b)fluoranthene
Concen: 45.004 ng
RT: 22.575 min Scan# 2608
Delta R.T. 0.018 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

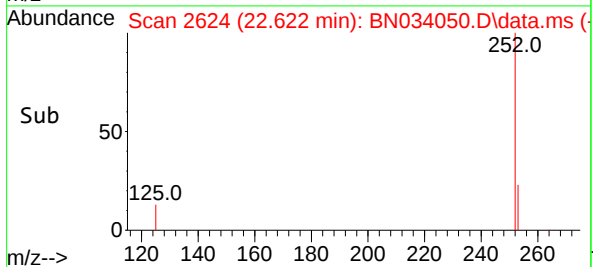
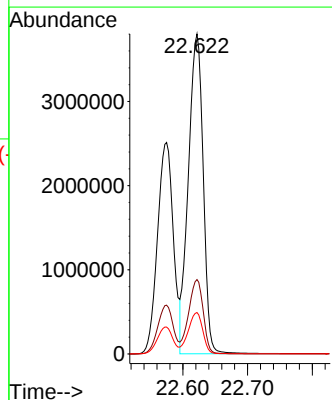
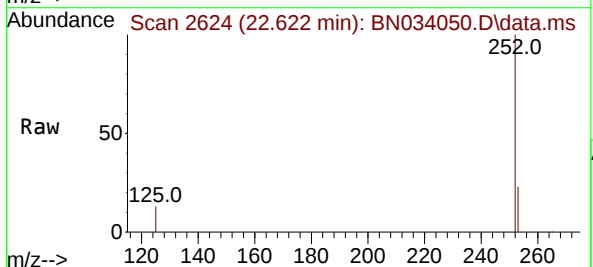
Instrument :
BNA_N
ClientSampleId :
PT-BN-WP

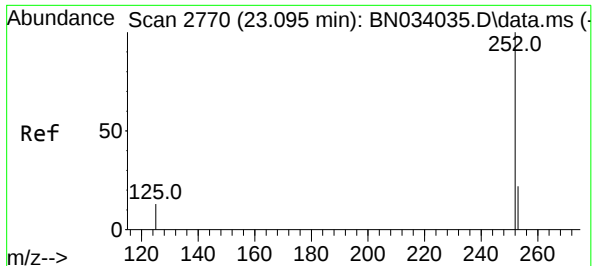
Tgt Ion:252 Resp: 4311382
Ion Ratio Lower Upper
252 100
253 23.1 19.6 29.4
125 12.7 13.8 20.8#



#38
Benzo(k)fluoranthene
Concen: 60.141 ng
RT: 22.622 min Scan# 2624
Delta R.T. 0.021 min
Lab File: BN034050.D
Acq: 19 Sep 2024 14:33

Tgt Ion:252 Resp: 6048310
Ion Ratio Lower Upper
252 100
253 23.3 20.1 30.1
125 12.9 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 70.150 ng

RT: 23.113 min Scan# 21

Delta R.T. 0.018 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP

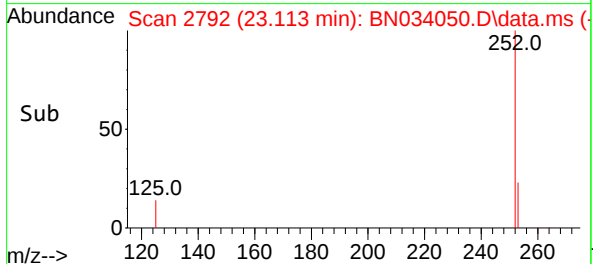
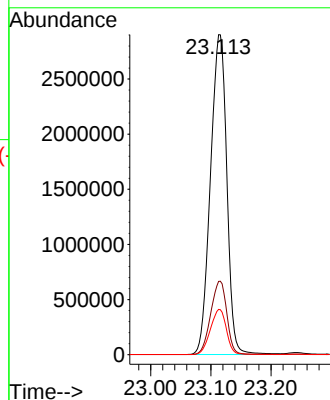
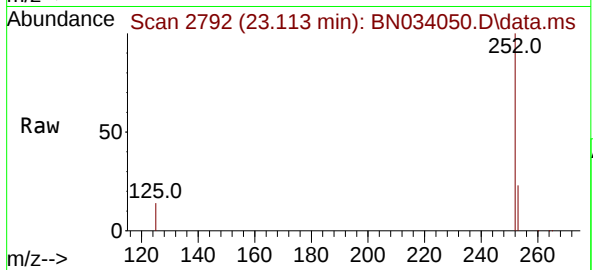
Tgt Ion:252 Resp: 5477696

Ion Ratio Lower Upper

252 100

253 22.9 21.8 32.8

125 14.1 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 66.791 ng

RT: 25.332 min Scan# 3551

Delta R.T. 0.038 min

Lab File: BN034050.D

Acq: 19 Sep 2024 14:33

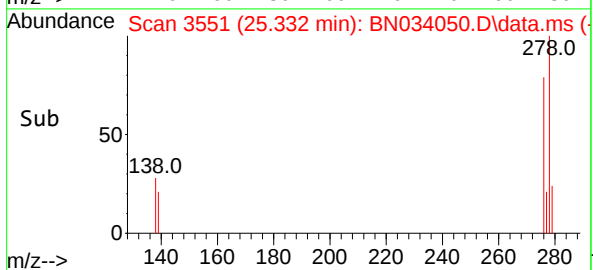
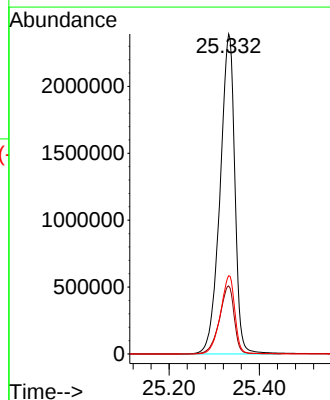
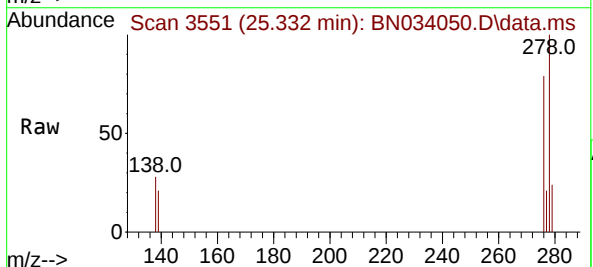
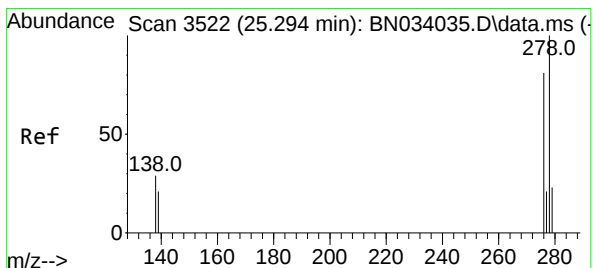
Tgt Ion:278 Resp: 5437200

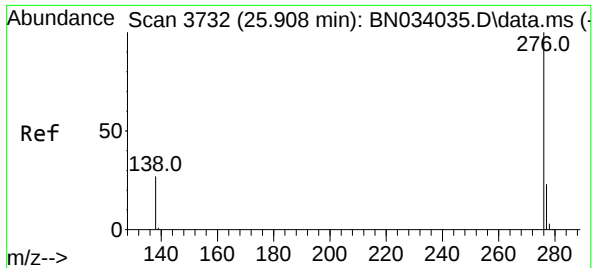
Ion Ratio Lower Upper

278 100

139 21.3 17.8 26.8

279 24.4 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 53.993 ng

RT: 25.952 min Scan# 31

Delta R.T. 0.044 min

Lab File: BN034050.D

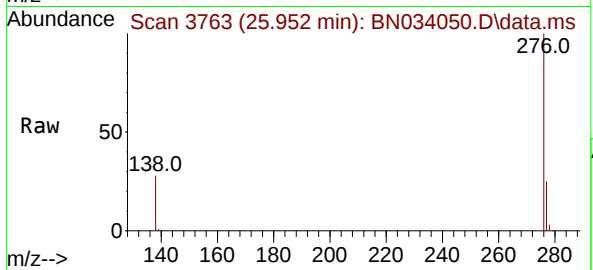
Acq: 19 Sep 2024 14:33

Instrument :

BNA_N

ClientSampleId :

PT-BN-WP



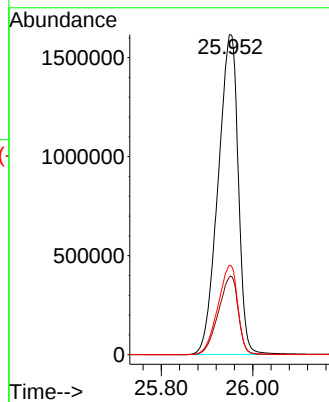
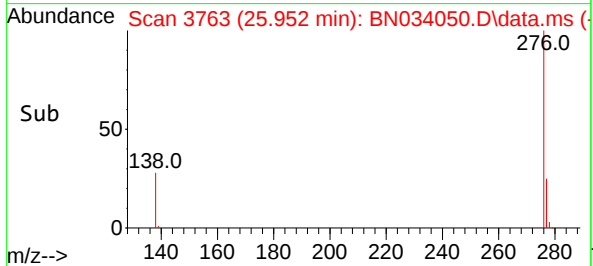
Tgt Ion:276 Resp: 4936819

Ion Ratio Lower Upper

276 100

277 24.6 19.3 28.9

138 27.9 22.6 34.0



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-BN-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-05DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034051.D	50	09/12/24 12:00	09/19/24 15:31	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	120	D	1.50	10.0	ug/L
87-68-3	Hexachlorobutadiene	73.8	D	1.30	5.00	ug/L
118-74-1	Hexachlorobenzene	150	DQ	1.50	5.00	ug/L
1912-24-9	Atrazine	1.20	UD	1.20	5.00	ug/L
123-91-1	1,4-Dioxane	3.40	UD	3.40	10.0	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	20 - 139	0%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0	*	30 - 150	0%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	101	*	27 - 123	25200%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	101	*	34 - 132	25313%	SPK: 0.4
1718-51-0	Terphenyl-d14	127	*	35 - 157	31800%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7820		7.43		
1146-65-2	Naphthalene-d8	23100		10.191		
15067-26-2	Acenaphthene-d10	14200		14.083		
1517-22-2	Phenanthrene-d10	31100		16.833		
1719-03-5	Chrysene-d12	25500		21.062		
1520-96-3	Perylene-d12	25400		23.195		

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\BN091924\
 Data File : BN034051.D
 Acq On : 19 Sep 2024 15:31
 Operator : JU/RC
 Sample : P3845-05DL 50X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PT-BN-WPDL

Quant Time: Sep 19 15:59:58 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

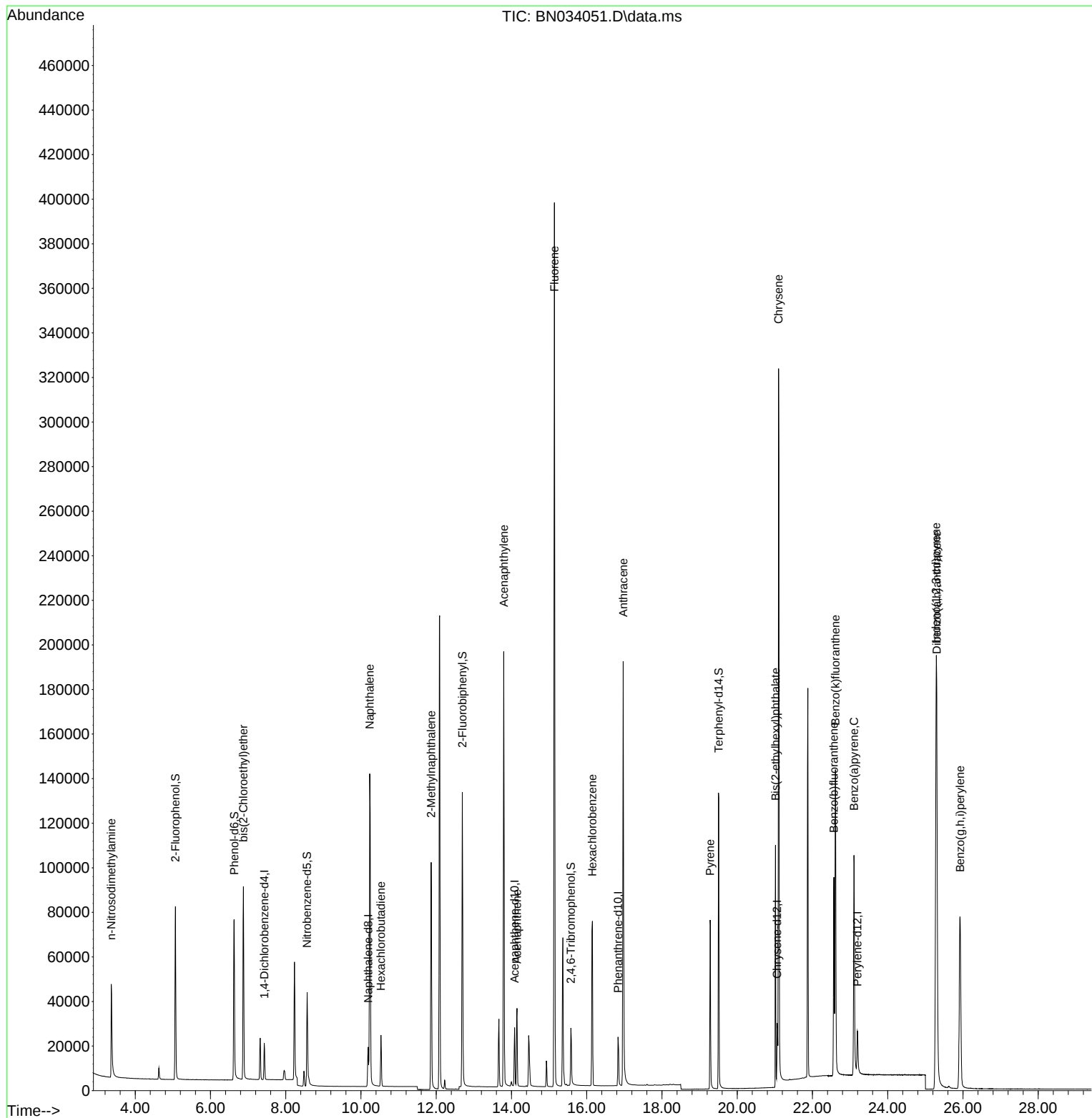
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.430	152	7820	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	23087	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	14195	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	31128	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	25511	0.400	ng	0.00
35) Perylene-d12	23.195	264	25402	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.069	112	60181	2.712	ng	0.00
5) Phenol-d6	6.629	99	70844	2.744	ng	0.00
8) Nitrobenzene-d5	8.568	82	35597	2.016	ng	0.00
11) 2-Methylnaphthalene-d10	11.780	152	3	0.000	ng	-0.01
14) 2,4,6-Tribromophenol	15.579	330	15653	2.434	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	116916	2.025	ng	0.00
27) Fluoranthene-d10	18.885	212	13	0.000	ng	0.00
31) Terphenyl-d14	19.507	244	129632	2.544	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.364	42	25975	2.334	ng	# 93
6) bis(2-Chloroethyl)ether	6.874	93	59438	2.603	ng	97
9) Naphthalene	10.233	128	189560	2.992	ng	99
10) Hexachlorobutadiene	10.532	225	17616	1.476	ng	# 99
12) 2-Methylnaphthalene	11.867	142	76933	1.866	ng	97
16) Acenaphthylene	13.794	152	193446	3.184	ng	100
17) Acenaphthene	14.147	154	18023	0.414	ng	99
18) Fluorene	15.141	166	215921	3.776	ng	99
22) Hexachlorobenzene	16.150	284	60731	3.095	ng	99
26) Anthracene	16.970	178	199827	2.739	ng	100
30) Pyrene	19.280	202	69844	0.649	ng	99
33) Chrysene	21.098	228	279248	2.900	ng	99
34) Bis(2-ethylhexyl)phtha...	21.017	149	71875	2.138	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.285	276	236437	2.172	ng	99
37) Benzo(b)fluoranthene	22.569	252	101492	1.020	ng	# 94
38) Benzo(k)fluoranthene	22.610	252	166322	1.592	ng	# 89
39) Benzo(a)pyrene	23.104	252	137743	1.698	ng	# 88
40) Dibenzo(a,h)anthracene	25.302	278	167164	1.977	ng	96
41) Benzo(g,h,i)perylene	25.922	276	146196	1.539	ng	99

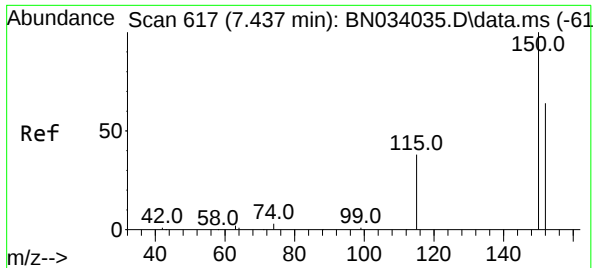
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034051.D
Acq On : 19 Sep 2024 15:31
Operator : JU/RC
Sample : P3845-05DL 50X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

Quant Time: Sep 19 15:59:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

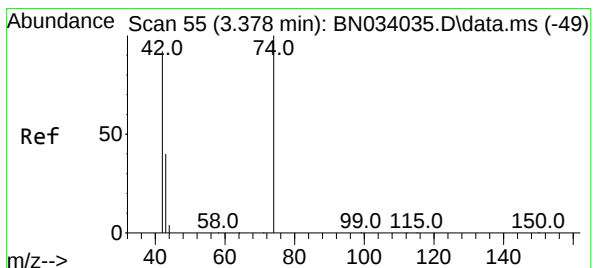
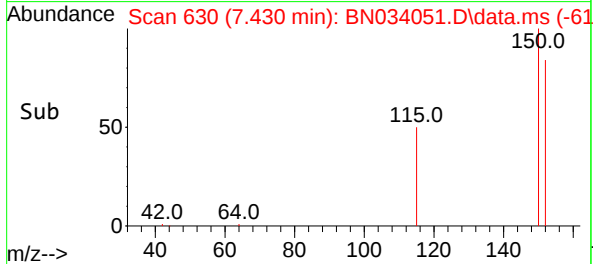
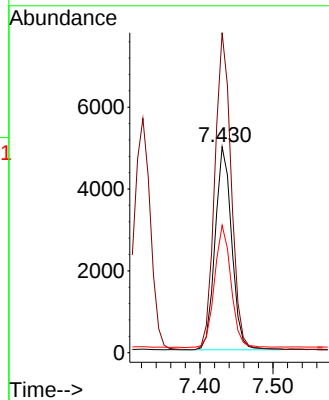
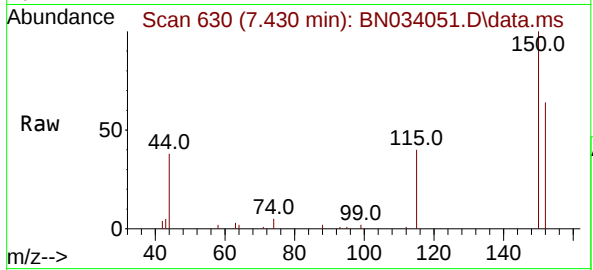




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.430 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

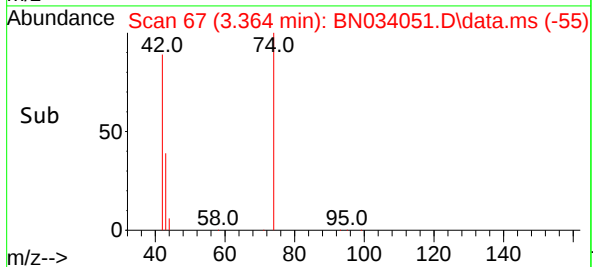
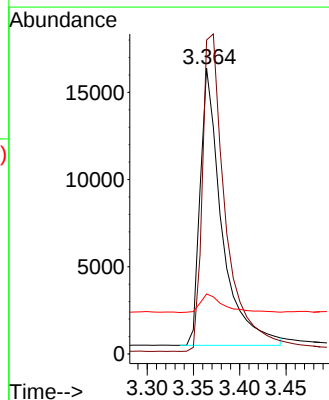
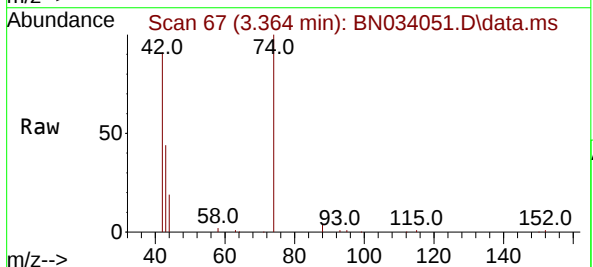
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

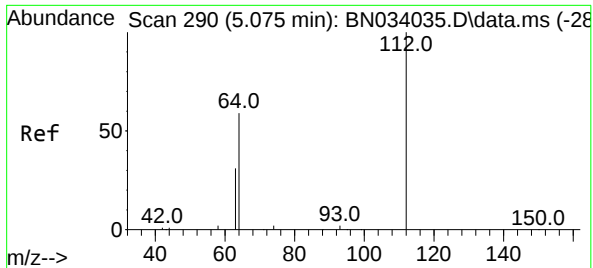
Tgt Ion:152 Resp: 7820
Ion Ratio Lower Upper
152 100
150 155.4 124.6 187.0
115 61.9 50.0 75.0



#3
n-Nitrosodimethylamine
Concen: 2.334 ng
RT: 3.364 min Scan# 67
Delta R.T. -0.014 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion: 42 Resp: 25975
Ion Ratio Lower Upper
42 100
74 123.6 94.6 142.0
44 7.1 12.4 18.6#

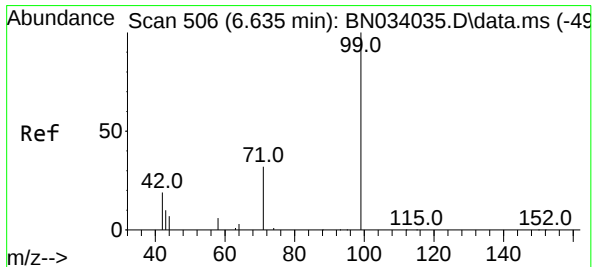
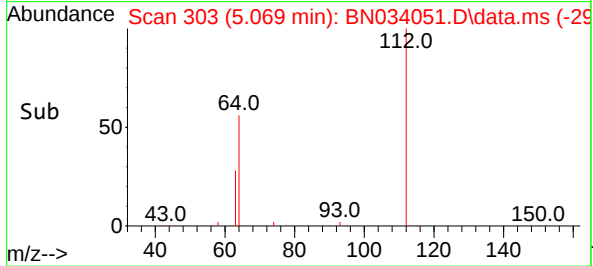
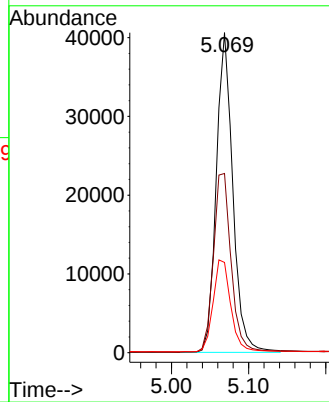
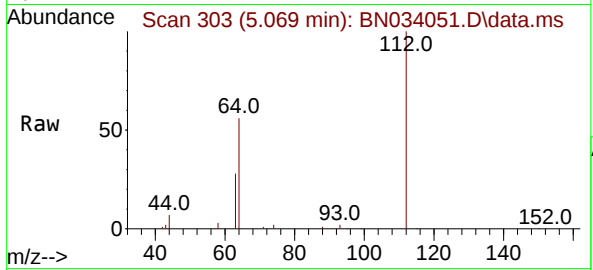




#4
2-Fluorophenol
Concen: 2.712 ng
RT: 5.069 min Scan# 30
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

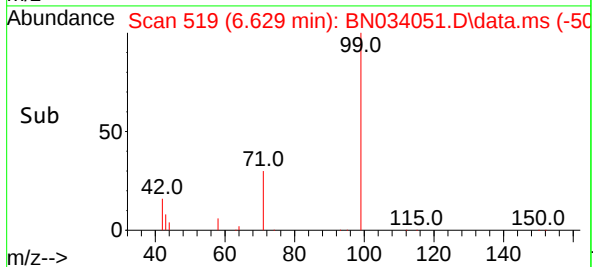
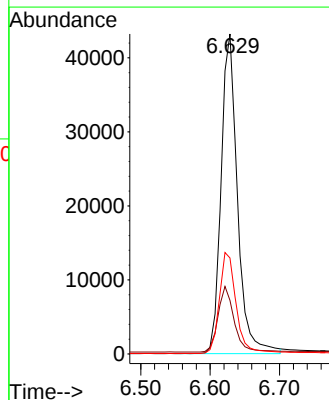
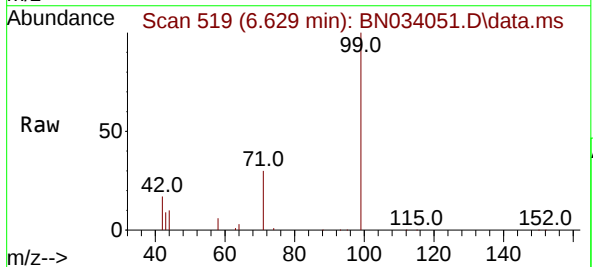
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

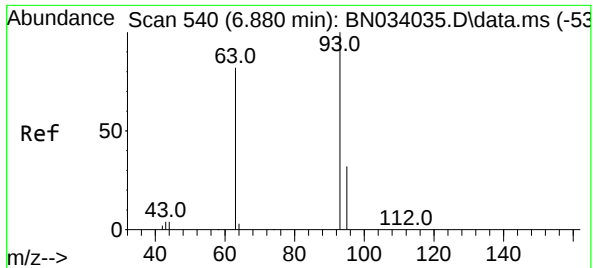
Tgt Ion:112 Resp: 60181
Ion Ratio Lower Upper
112 100
64 60.1 48.6 72.8
63 30.8 25.6 38.4



#5
Phenol-d6
Concen: 2.744 ng
RT: 6.629 min Scan# 519
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion: 99 Resp: 70844
Ion Ratio Lower Upper
99 100
42 20.2 17.8 26.8
71 32.4 26.2 39.2

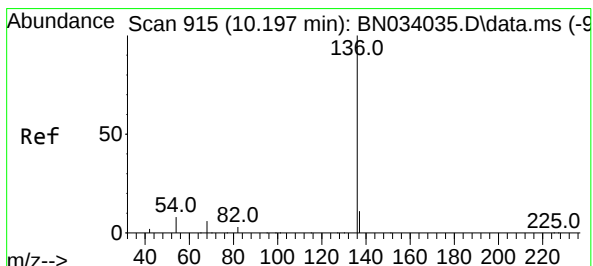
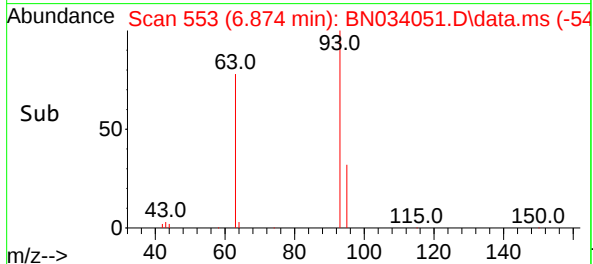
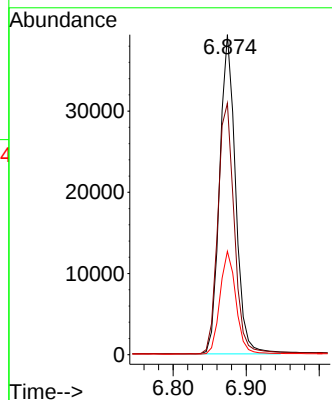
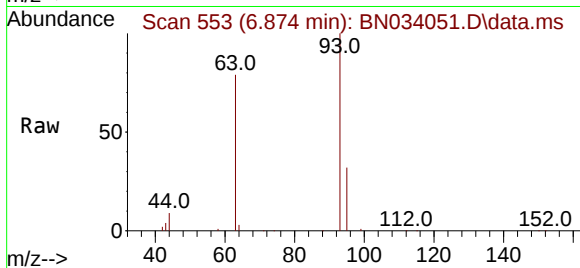




#6
bis(2-Chloroethyl)ether
Concen: 2.603 ng
RT: 6.874 min Scan# 511
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

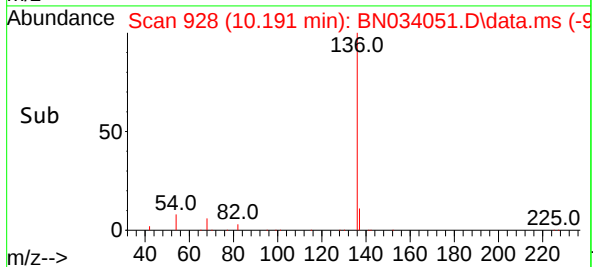
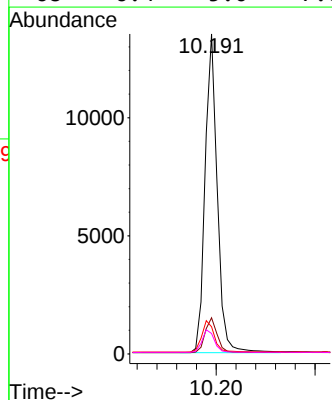
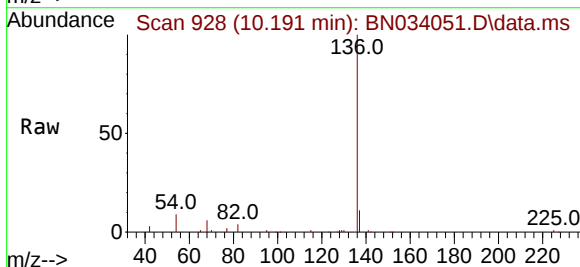
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

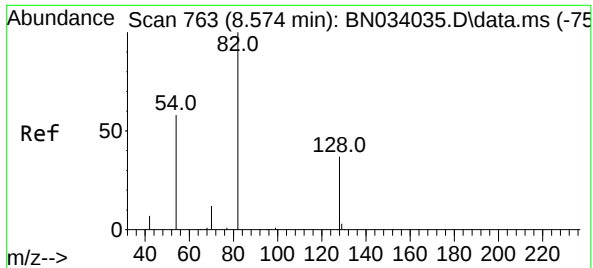
Tgt Ion: 93 Resp: 59438
Ion Ratio Lower Upper
93 100
63 80.8 67.3 100.9
95 32.4 26.8 40.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 928
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion: 136 Resp: 23087
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 8.5 6.8 10.2
68 6.4 5.0 7.6

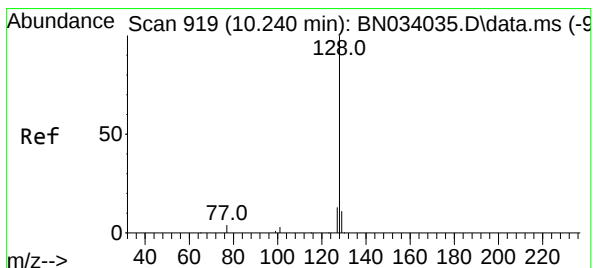
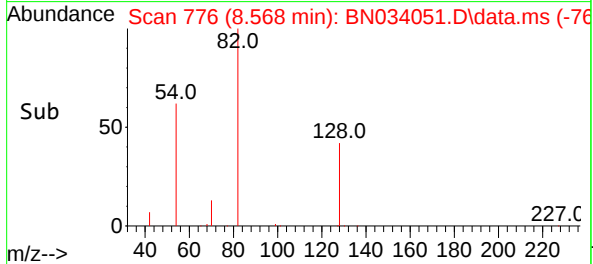
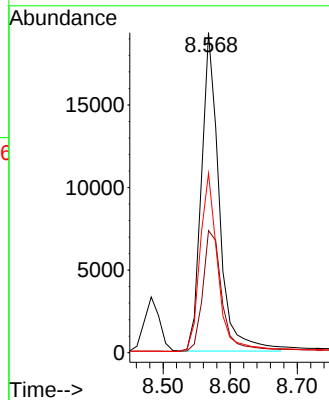
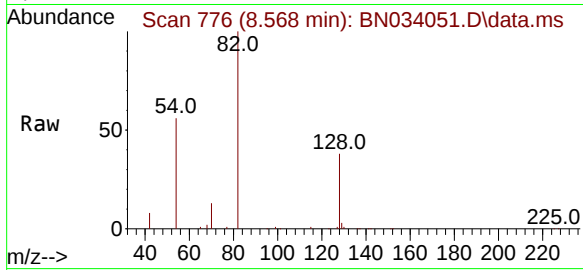




#8
Nitrobenzene-d5
Concen: 2.016 ng
RT: 8.568 min Scan# 71
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

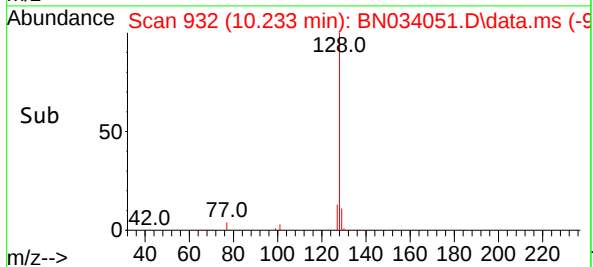
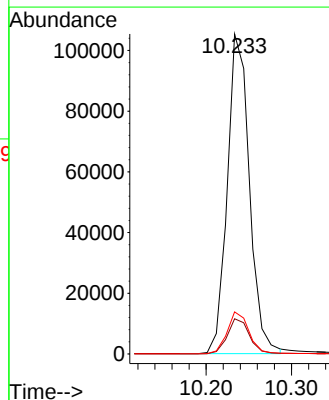
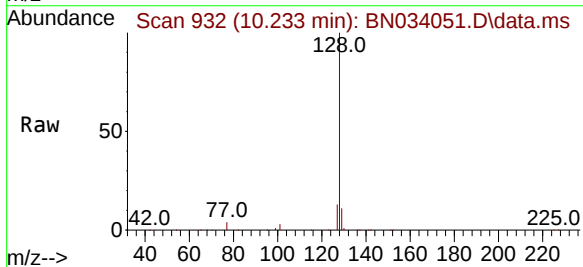
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

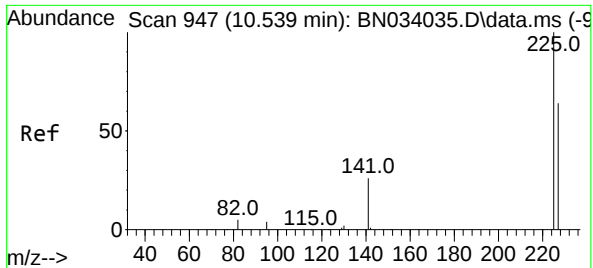
Tgt Ion:	82	Resp:	35597
Ion Ratio	Lower	Upper	
82	100		
128	38.2	31.4	47.2
54	56.0	47.4	71.0



#9
Naphthalene
Concen: 2.992 ng
RT: 10.233 min Scan# 932
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:	128	Resp:	189560
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.2	13.8
127	13.2	10.7	16.1

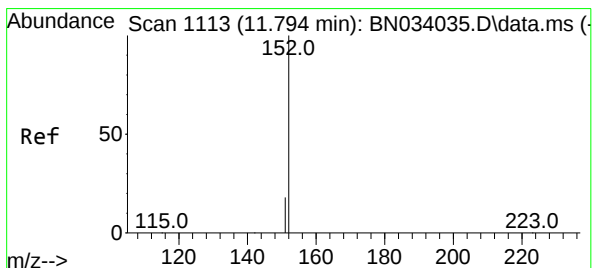
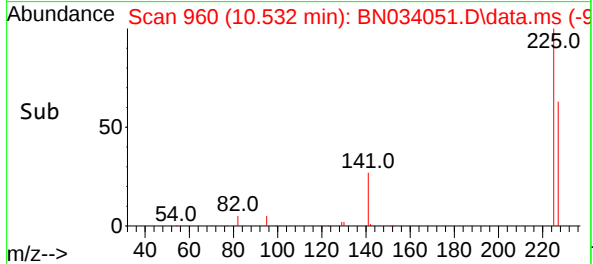
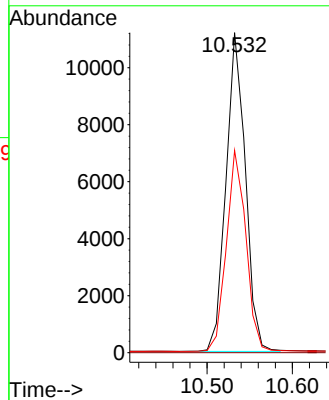
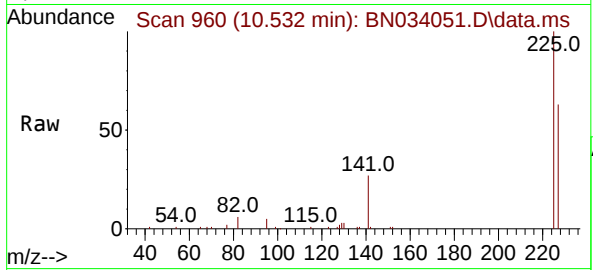




#10
Hexachlorobutadiene
Concen: 1.476 ng
RT: 10.532 min Scan# 90
Delta R.T. -0.006 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

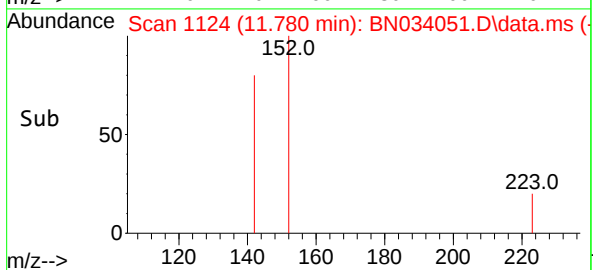
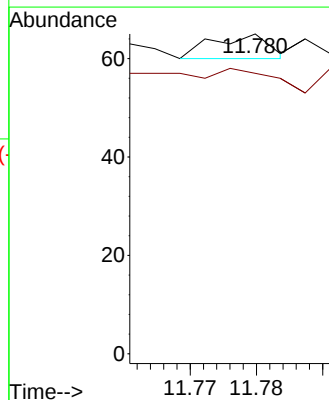
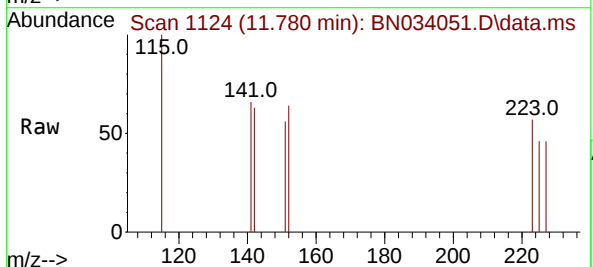
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

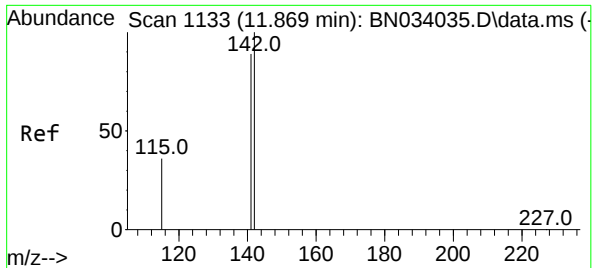
Tgt Ion:225 Resp: 17616
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.5 75.7



#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 11.780 min Scan# 1124
Delta R.T. -0.014 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:152 Resp: 3
Ion Ratio Lower Upper
152 100
151 66.7 16.8 25.2#





#12

2-Methylnaphthalene

Concen: 1.866 ng

RT: 11.867 min Scan# 1133

Delta R.T. -0.003 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

Instrument :

BNA_N

ClientSampleId :

PT-BN-WPDL

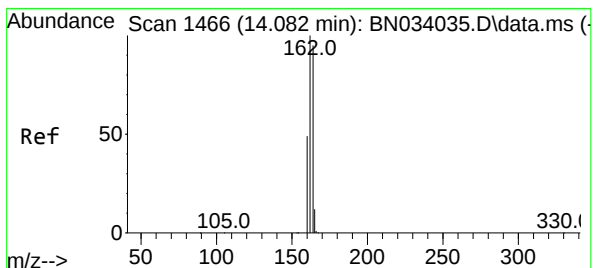
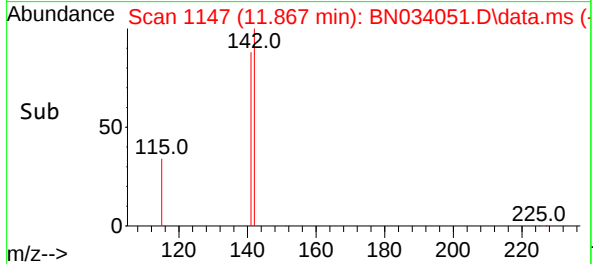
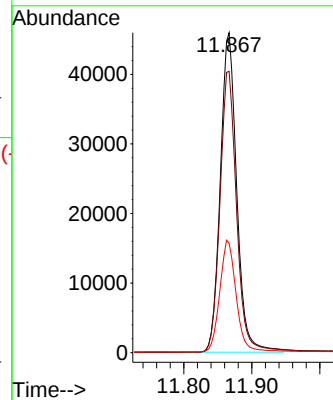
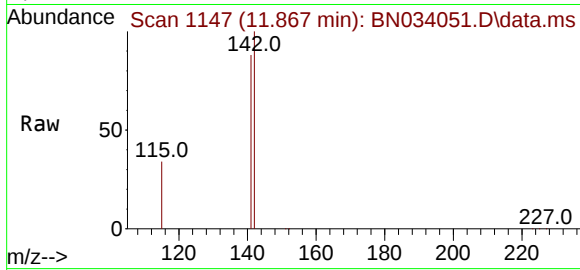
Tgt Ion:142 Resp: 76933

Ion Ratio Lower Upper

142 100

141 87.9 71.6 107.4

115 34.2 30.0 45.0



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.083 min Scan# 1481

Delta R.T. 0.001 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

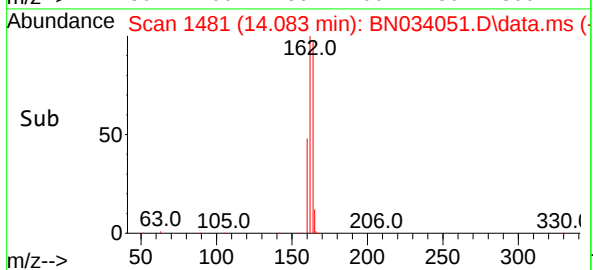
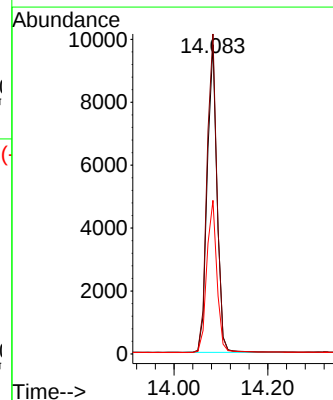
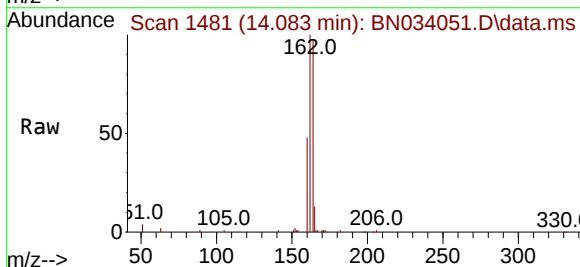
Tgt Ion:164 Resp: 14195

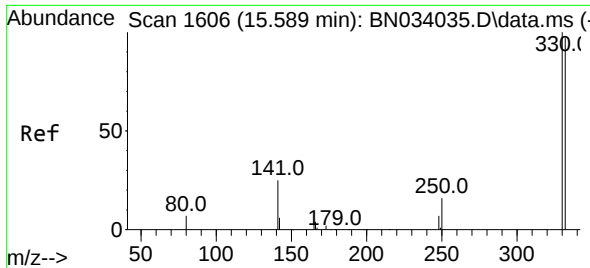
Ion Ratio Lower Upper

164 100

162 103.5 84.2 126.2

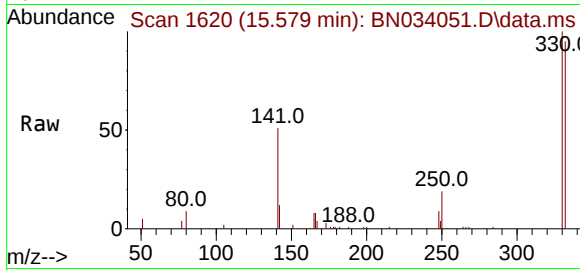
160 49.7 41.7 62.5



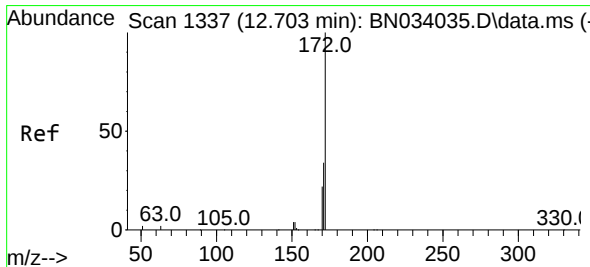
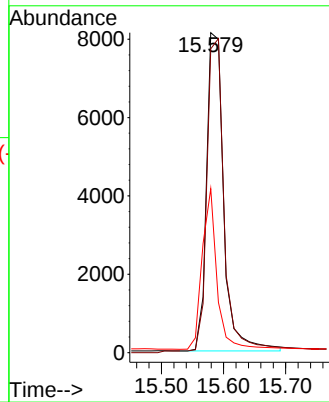
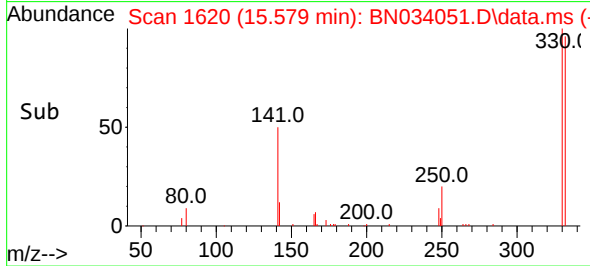


#14
2,4,6-Tribromophenol
Concen: 2.434 ng
RT: 15.579 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

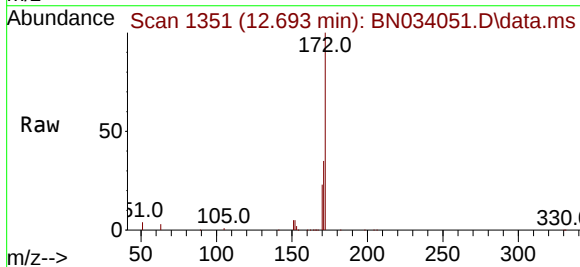
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL



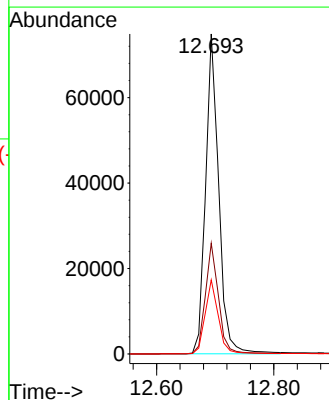
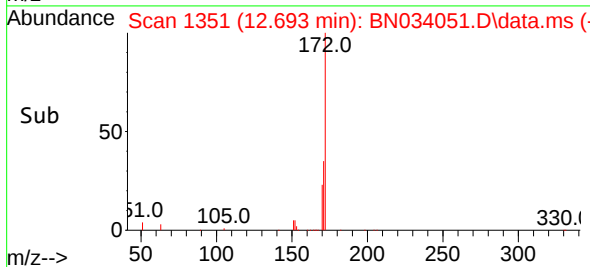
Tgt Ion:330 Resp: 15653
Ion Ratio Lower Upper
330 100
332 97.3 77.4 116.0
141 43.4 35.9 53.9

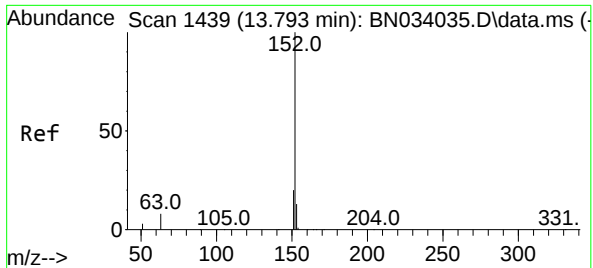


#15
2-Fluorobiphenyl
Concen: 2.025 ng
RT: 12.693 min Scan# 1351
Delta R.T. -0.009 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31



Tgt Ion:172 Resp: 116916
Ion Ratio Lower Upper
172 100
171 34.6 27.3 40.9
170 23.1 18.1 27.1

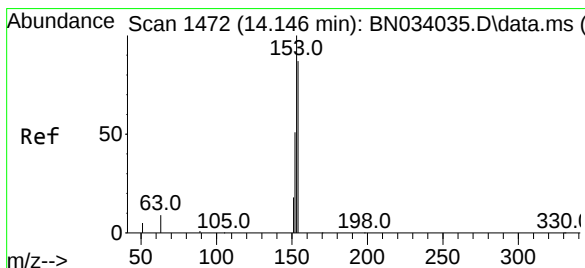
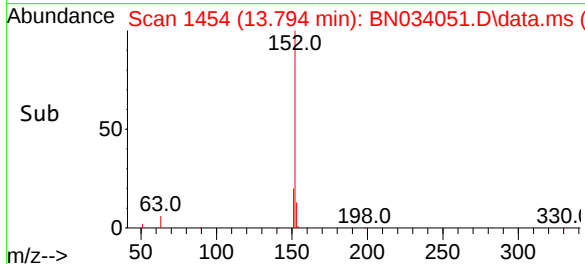
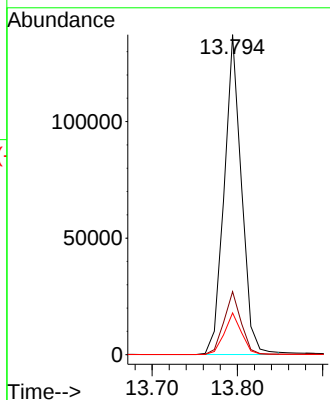
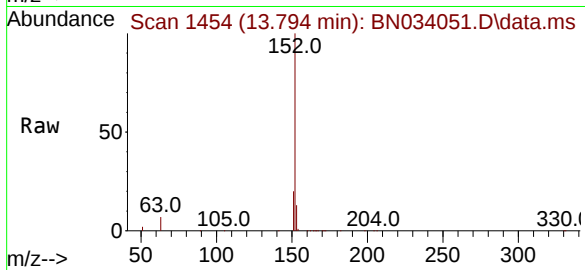




#16
Acenaphthylene
Concen: 3.184 ng
RT: 13.794 min Scan# 1439
Delta R.T. 0.001 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

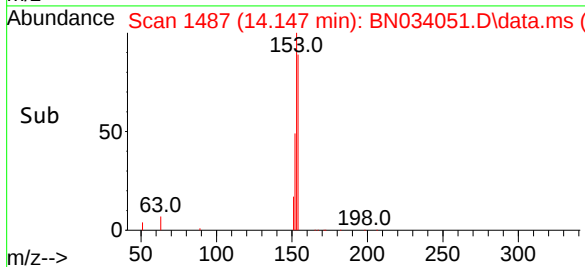
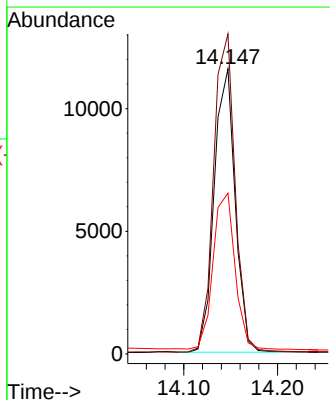
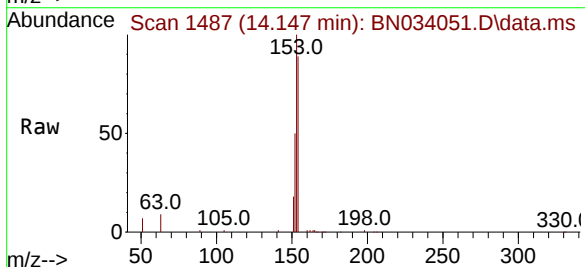
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

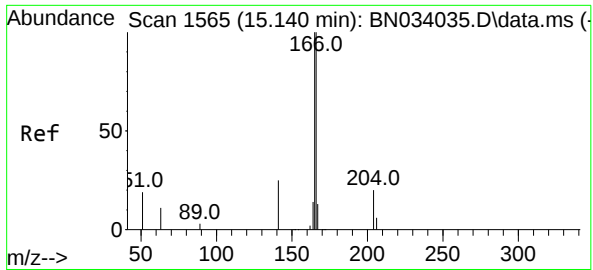
Tgt Ion:152 Resp: 193446
Ion Ratio Lower Upper
152 100
151 19.6 15.6 23.4
153 12.9 10.3 15.5



#17
Acenaphthene
Concen: 0.414 ng
RT: 14.147 min Scan# 1487
Delta R.T. 0.001 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:154 Resp: 18023
Ion Ratio Lower Upper
154 100
153 114.6 91.6 137.4
152 57.2 47.4 71.2

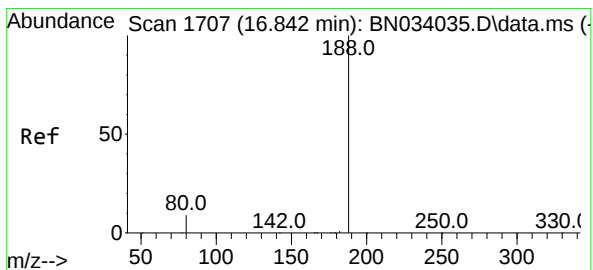
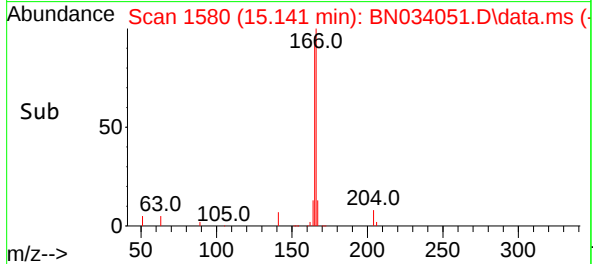
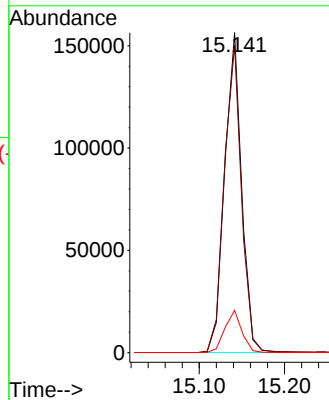
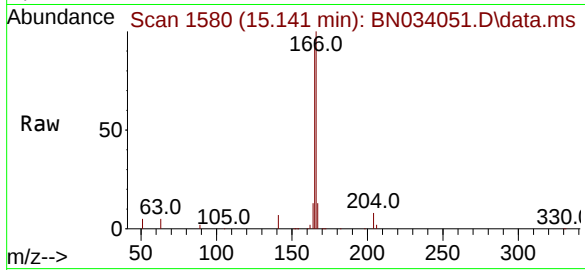




#18
Fluorene
Concen: 3.776 ng
RT: 15.141 min Scan# 1565
Delta R.T. 0.001 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

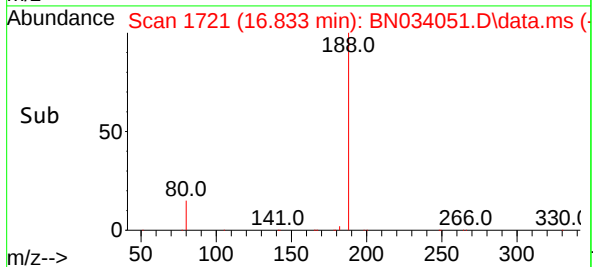
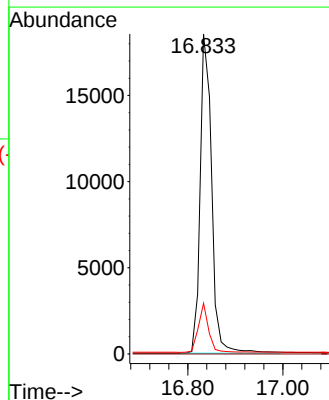
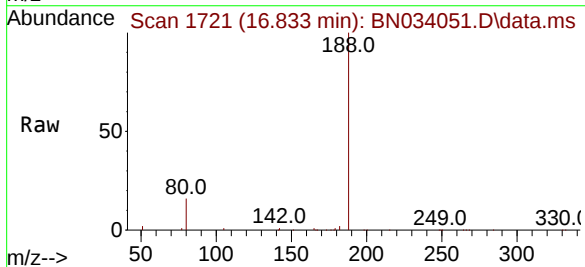
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

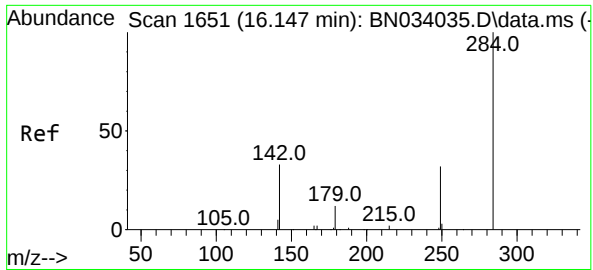
Tgt Ion:166 Resp: 215921
Ion Ratio Lower Upper
166 100
165 97.7 79.1 118.7
167 13.2 10.6 15.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1721
Delta R.T. -0.009 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:188 Resp: 31128
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.9 7.4 11.0#





#22

Hexachlorobenzene

Concen: 3.095 ng

RT: 16.150 min Scan# 1

Delta R.T. 0.003 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

Instrument :

BNA_N

ClientSampleId :

PT-BN-WPDL

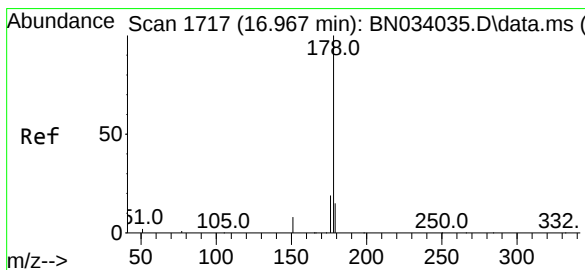
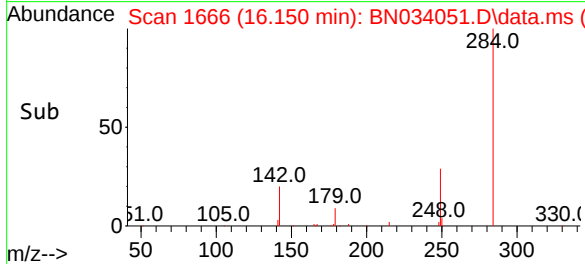
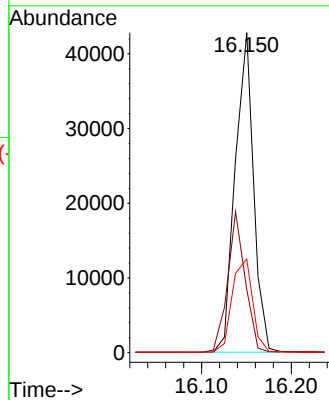
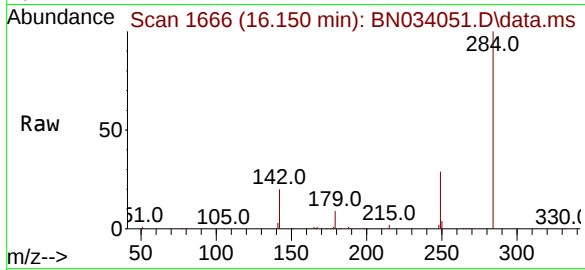
Tgt Ion:284 Resp: 60731

Ion Ratio Lower Upper

284 100

142 42.0 34.5 51.7

249 32.4 25.8 38.6



#26

Anthracene

Concen: 2.739 ng

RT: 16.970 min Scan# 1732

Delta R.T. 0.003 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

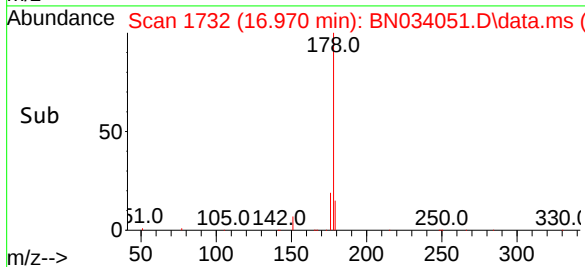
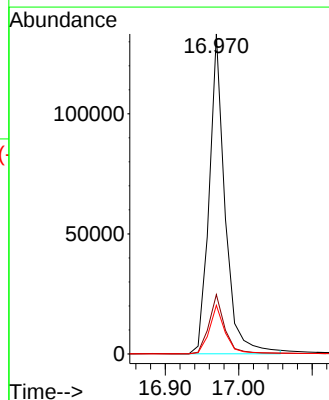
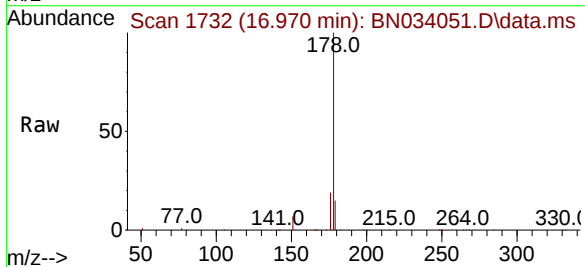
Tgt Ion:178 Resp: 199827

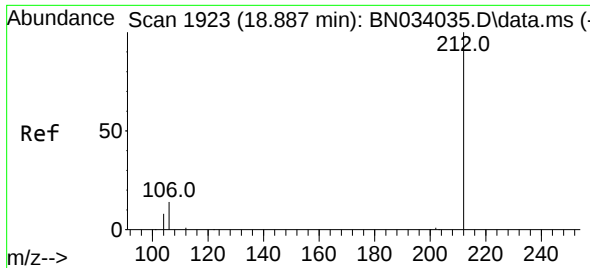
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.2 12.2 18.4

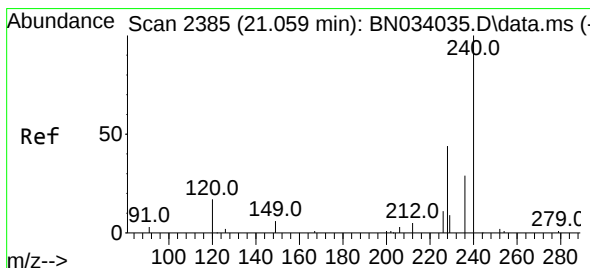
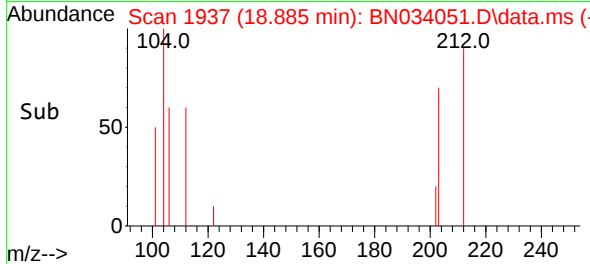
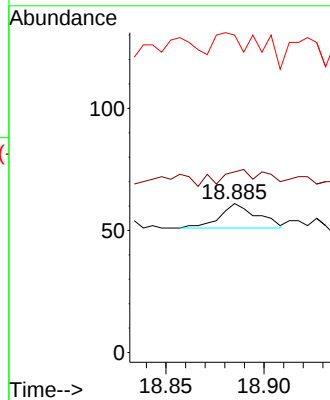
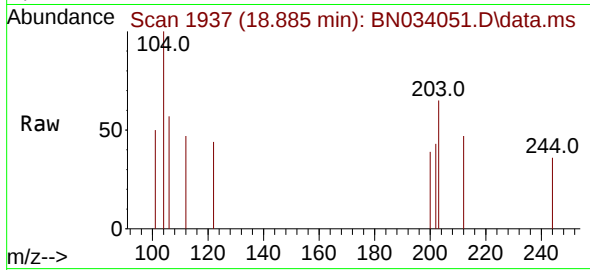




#27
Fluoranthene-d10
Concen: 0.000 ng
RT: 18.885 min Scan# 1923
Delta R.T. -0.002 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

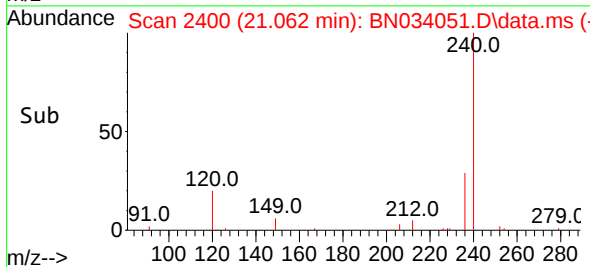
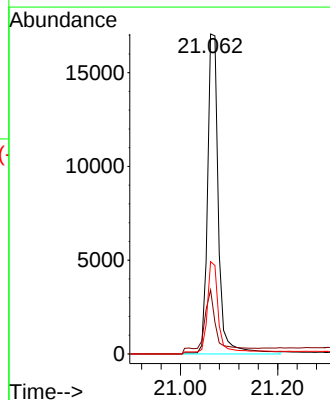
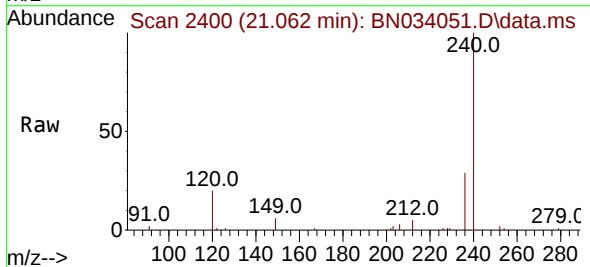
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

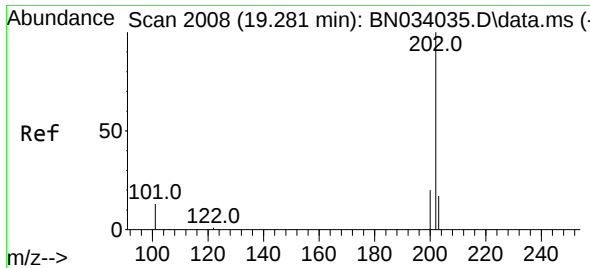
Tgt Ion:212 Resp: 13
Ion Ratio Lower Upper
212 100
106 84.6 13.4 20.2#
104 53.8 7.8 11.6#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:240 Resp: 25511
Ion Ratio Lower Upper
240 100
120 20.0 13.5 20.3
236 28.9 23.4 35.0

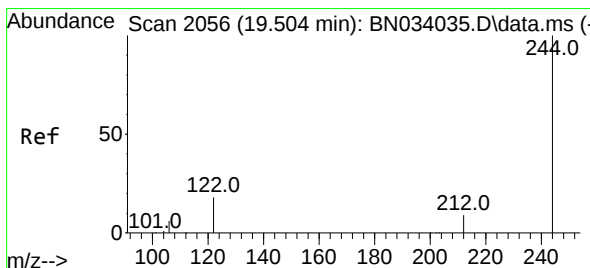
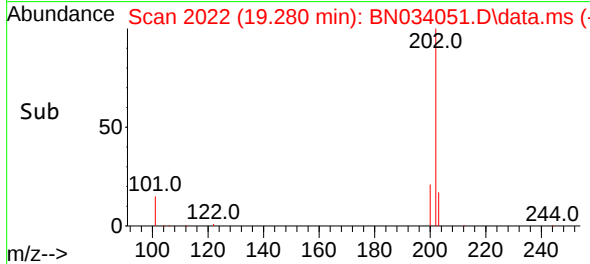
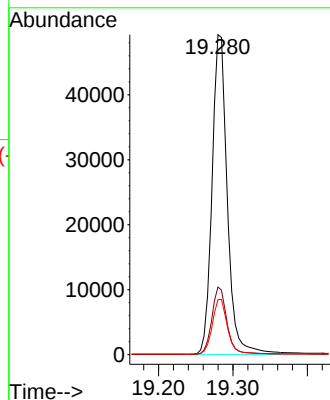
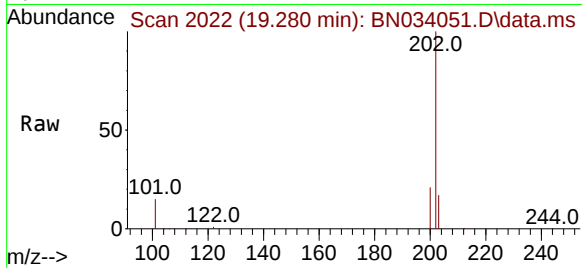




#30
Pyrene
Concen: 0.649 ng
RT: 19.280 min Scan# 2008
Delta R.T. -0.002 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

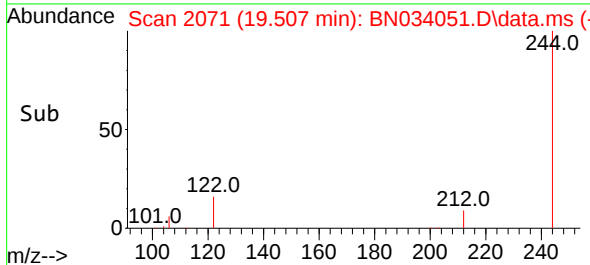
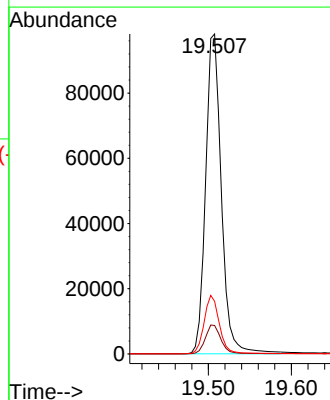
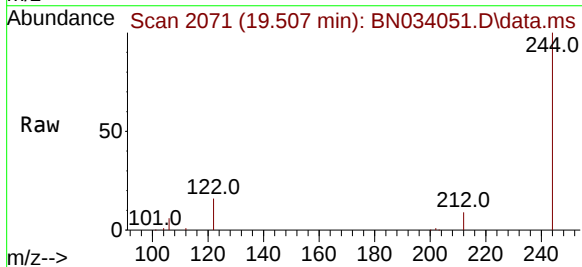
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

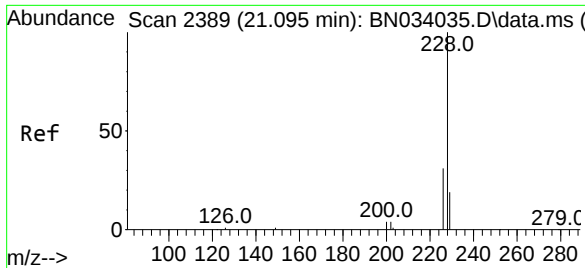
Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	17.2	14.3	21.5



#31
Terphenyl-d14
Concen: 2.544 ng
RT: 19.507 min Scan# 2071
Delta R.T. 0.003 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.8	11.6
122	16.5	14.8	22.2

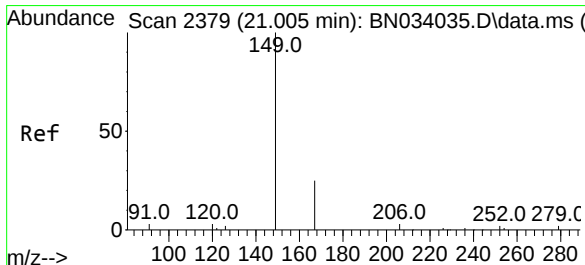
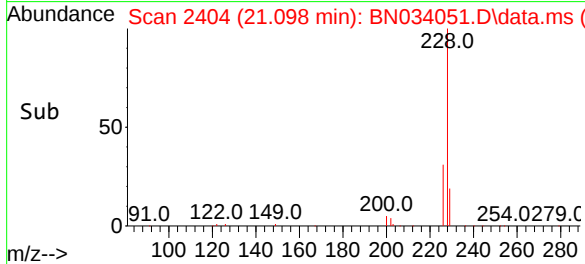
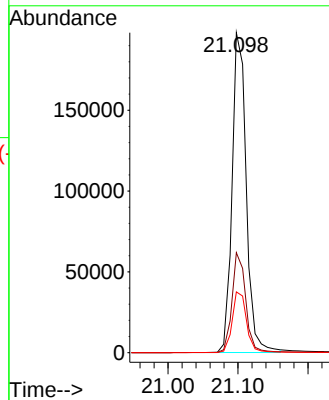
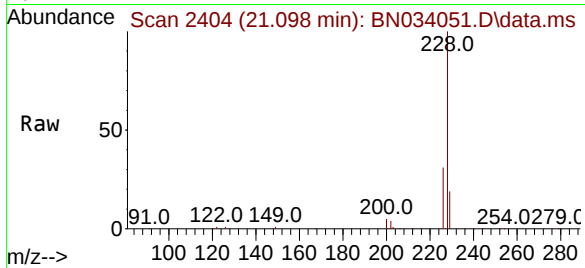




#33
Chrysene
Concen: 2.900 ng
RT: 21.098 min Scan# 2404
Delta R.T. 0.003 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

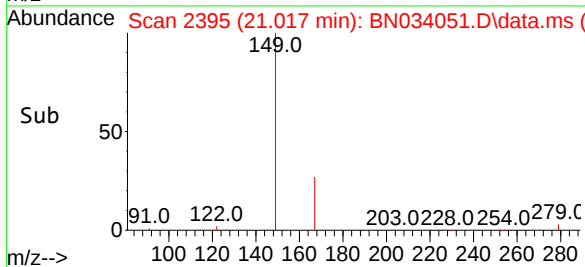
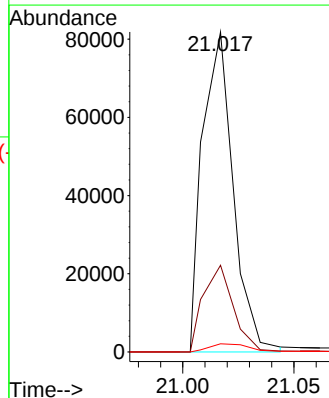
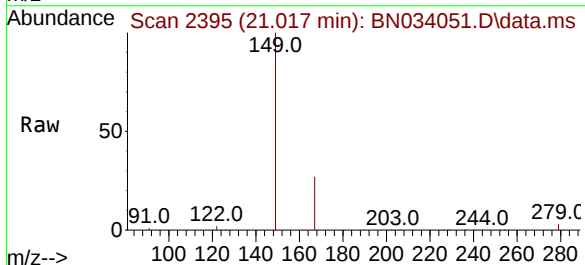
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

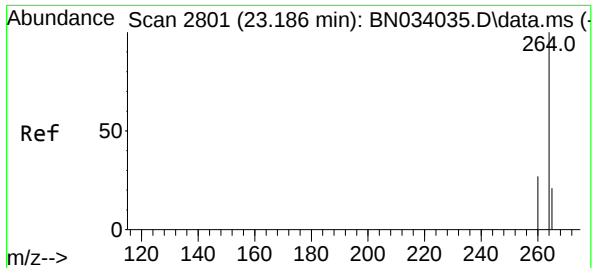
Tgt Ion:228 Resp: 279248
Ion Ratio Lower Upper
228 100
226 31.3 24.6 37.0
229 19.0 15.5 23.3



#34
Bis(2-ethylhexyl)phthalate
Concen: 2.138 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.012 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:149 Resp: 71875
Ion Ratio Lower Upper
149 100
167 26.5 19.9 29.9
279 3.2 4.6 6.8#

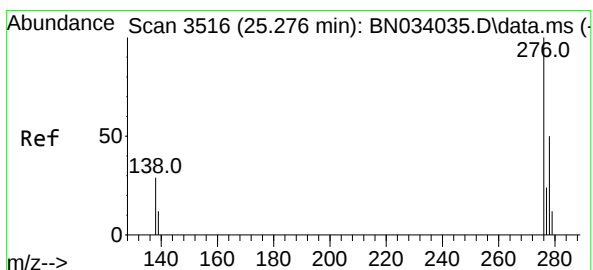
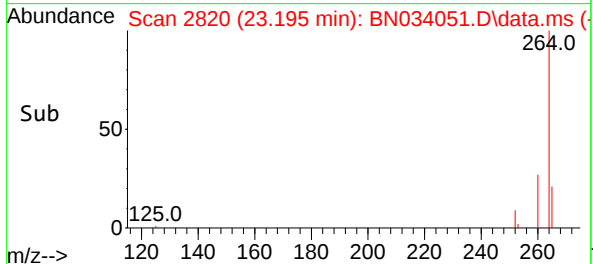
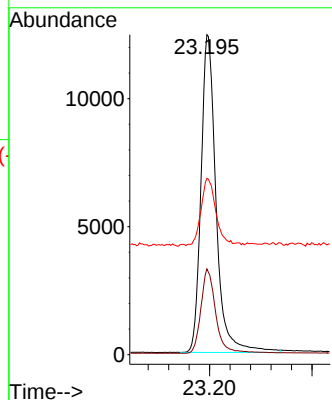
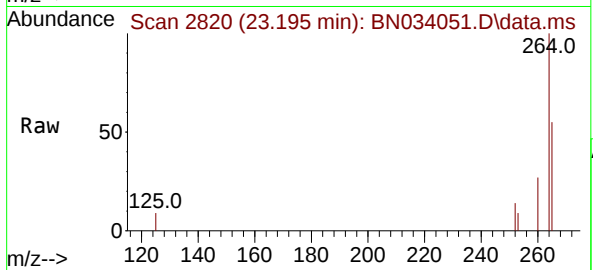




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.195 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

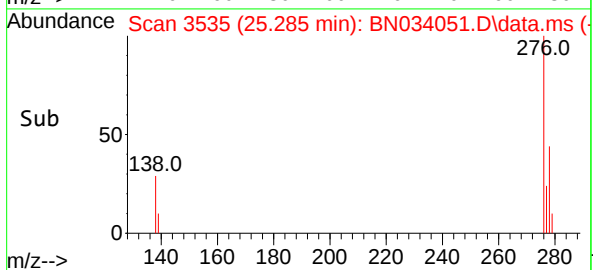
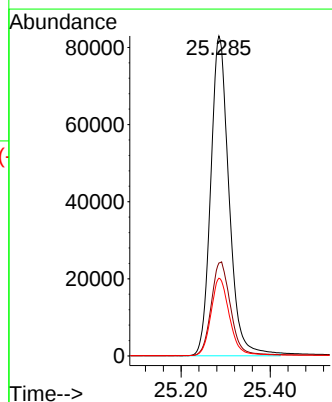
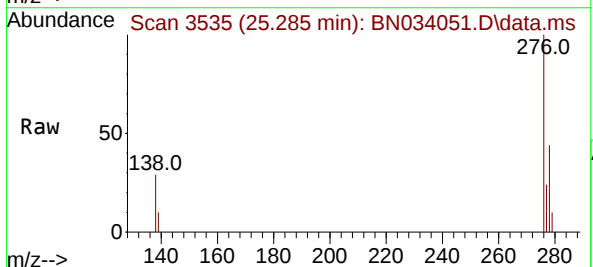
Instrument :
BNA_N
ClientSampleId :
PT-BN-WPDL

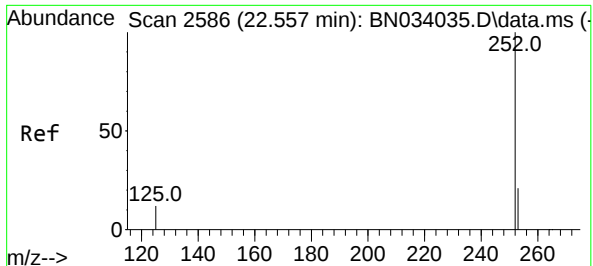
Tgt Ion:264 Resp: 25402
Ion Ratio Lower Upper
264 100
260 26.8 21.7 32.5
265 55.1 52.1 78.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 2.172 ng
RT: 25.285 min Scan# 3535
Delta R.T. 0.009 min
Lab File: BN034051.D
Acq: 19 Sep 2024 15:31

Tgt Ion:276 Resp: 236437
Ion Ratio Lower Upper
276 100
138 31.0 25.9 38.9
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.020 ng

RT: 22.569 min Scan# 20

Delta R.T. 0.012 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

Instrument :

BNA_N

ClientSampleId :

PT-BN-WPDL

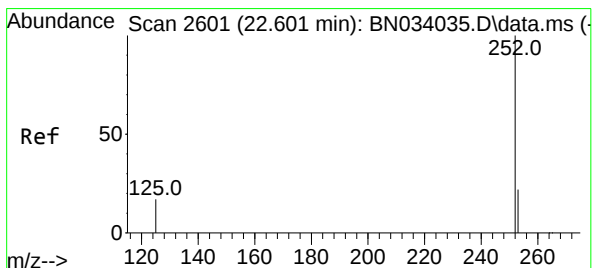
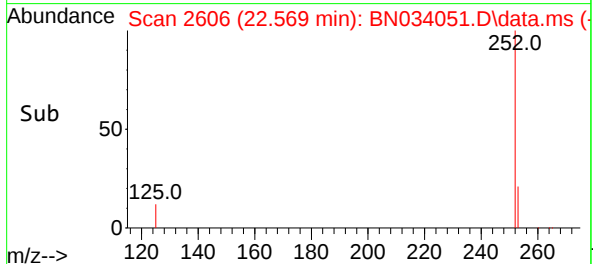
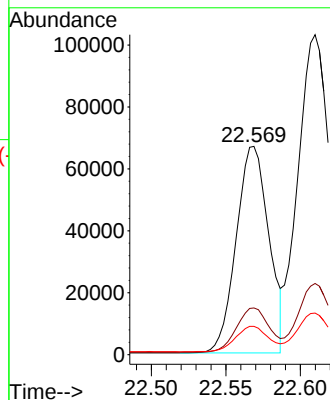
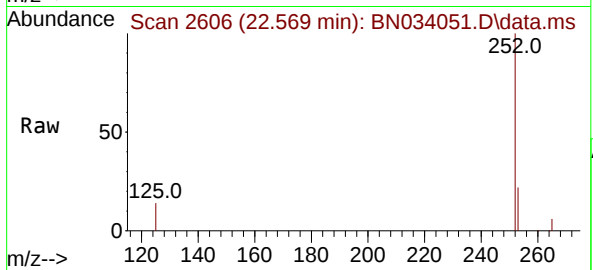
Tgt Ion:252 Resp: 101492

Ion Ratio Lower Upper

252 100

253 22.4 19.6 29.4

125 13.6 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 1.592 ng

RT: 22.610 min Scan# 2620

Delta R.T. 0.009 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

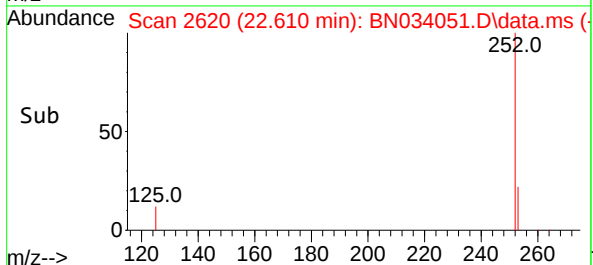
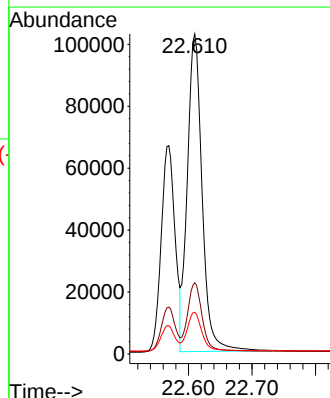
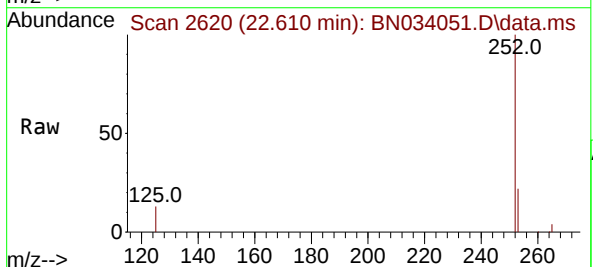
Tgt Ion:252 Resp: 166322

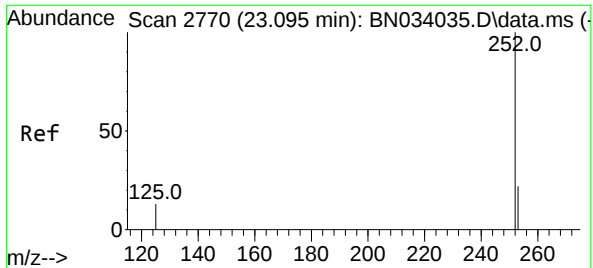
Ion Ratio Lower Upper

252 100

253 22.2 20.1 30.1

125 13.0 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 1.698 ng

RT: 23.104 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

Instrument :

BNA_N

ClientSampleId :

PT-BN-WPDL

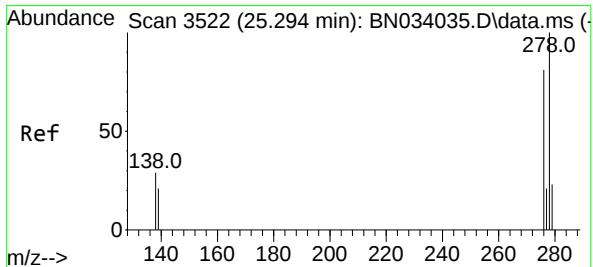
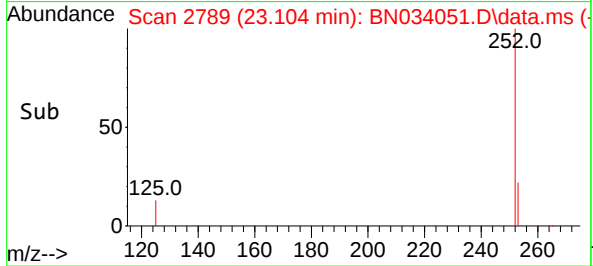
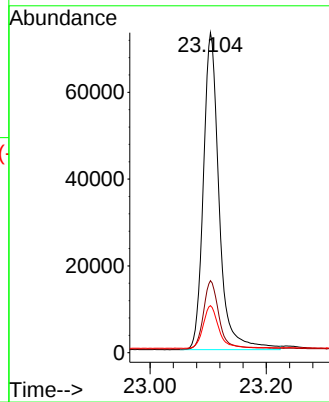
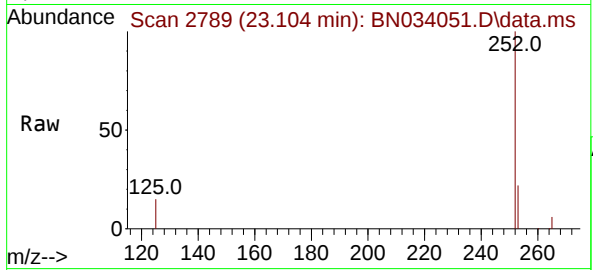
Tgt Ion:252 Resp: 137743

Ion Ratio Lower Upper

252 100

253 22.5 21.8 32.8

125 14.7 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.977 ng

RT: 25.302 min Scan# 3541

Delta R.T. 0.009 min

Lab File: BN034051.D

Acq: 19 Sep 2024 15:31

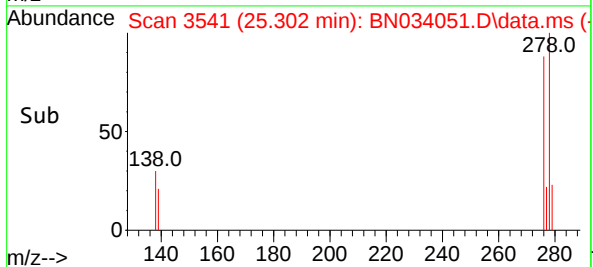
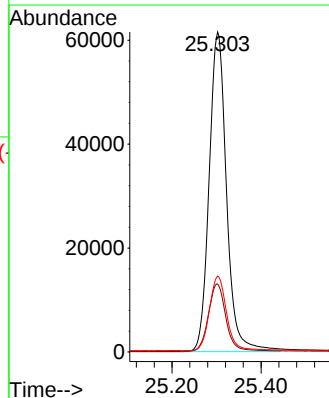
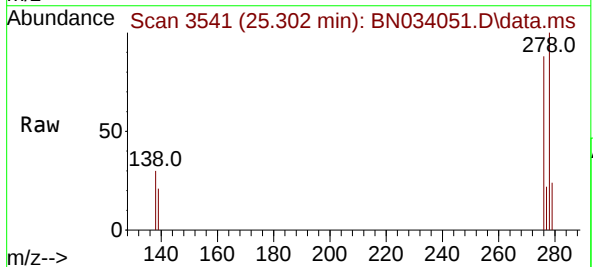
Tgt Ion:278 Resp: 167164

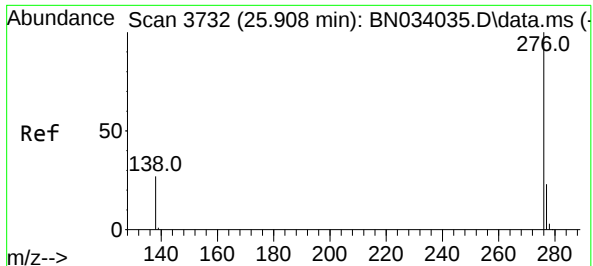
Ion Ratio Lower Upper

278 100

139 21.2 17.8 26.8

279 23.7 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 1.539 ng

RT: 25.922 min Scan# 31

Delta R.T. 0.015 min

Lab File: BN034051.D

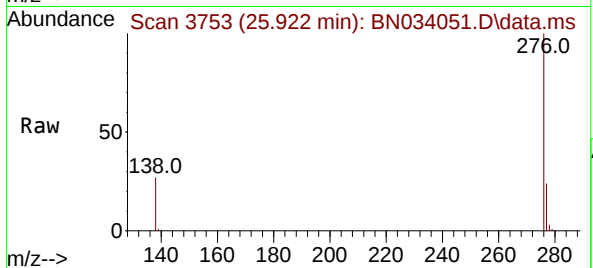
Acq: 19 Sep 2024 15:31

Instrument :

BNA_N

ClientSampleId :

PT-BN-WPDL



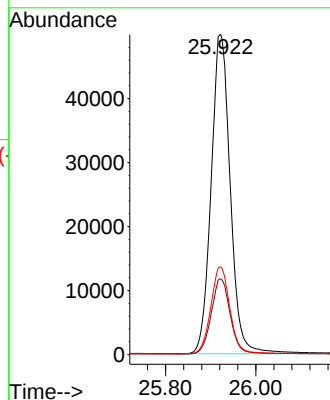
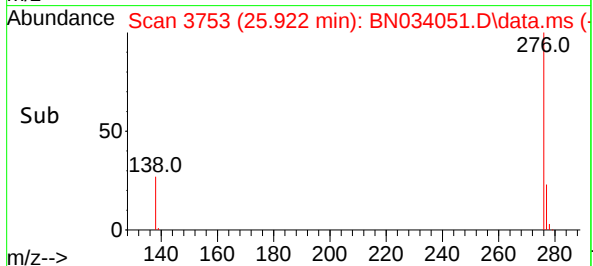
Tgt Ion:276 Resp: 146196

Ion Ratio Lower Upper

276 100

277 23.6 19.3 28.9

138 27.4 22.6 34.0





CALIBRATION SUMMARY

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN034033.D 0.2 =BN034034.D 0.4 =BN034035.D 0.8 =BN034036.D 1.6 =BN034037.D 3.2 =BN034038.D 5.0 =BN034039.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	0.558	0.536	0.503	0.503	0.488	0.468	0.445	0.500	7.73
3)	n-Nitrosodimet...	0.531	0.571	0.550	0.613	0.606	0.560	0.553	0.569	5.30
4) S	2-Fluorophenol	1.201	1.157	1.069	1.203	1.148	1.080	1.089	1.135	4.97
5) S	Phenol-d6	1.239	1.215	1.189	1.406	1.401	1.371	1.421	1.320	7.69
6)	bis(2-Chloroet...	1.156	1.095	1.106	1.276	1.223	1.159	1.162	1.168	5.44
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.270	0.269	0.280	0.331	0.336	0.321	0.336	0.306	10.30
9)	Naphthalene	1.092	1.062	1.056	1.171	1.149	1.068	1.088	1.098	4.07
10)	Hexachlorobuta...	0.216	0.208	0.204	0.219	0.213	0.192	0.195	0.207	4.93
11) SURR2	Methylnaphth...	0.568	0.554	0.560	0.631	0.627	0.585	0.610	0.591	5.42
12)	2-Methylnaphth...	0.680	0.671	0.678	0.763	0.759	0.713	0.736	0.714	5.48
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.162	0.156	0.155	0.187	0.192	0.197	0.220	0.181	13.49
15) S	2-Fluorobiphenyl	1.629	1.576	1.574	1.722	1.693	1.597	1.595	1.627	3.62
16)	Acenaphthylene	1.530	1.512	1.537	1.804	1.846	1.838	1.918	1.712	10.35
17)	Acenaphthene	1.206	1.182	1.175	1.298	1.272	1.224	1.240	1.228	3.71
18)	Fluorene	1.582	1.538	1.528	1.704	1.690	1.618	1.621	1.612	4.24
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.042	0.046	0.061	0.065	0.072		0.057		21.90
21)	4-Bromophenyl-...	0.218	0.210	0.213	0.236	0.236	0.225	0.236	0.225	5.01
22)	Hexachlorobenzene	0.250	0.246	0.248	0.259	0.263	0.246	0.254	0.252	2.62
23)	Atrazine	0.175	0.170	0.170	0.198	0.197	0.192	0.203	0.186	7.55
24)	Pentachlorophenol	0.078	0.065	0.070	0.088	0.095	0.105		0.083	18.27
25)	Phenanthrene	1.153	1.090	1.107	1.196	1.191	1.129	1.174	1.149	3.61
26)	Anthracene	0.817	0.826	0.843	0.985	1.008	1.011	1.071	0.937	11.20
27) SURR	Fluoranthene-d10	0.965	0.947	0.953	1.059	1.054	1.013	1.072	1.009	5.35
28)	Fluoranthene	1.249	1.226	1.258	1.405	1.414	1.359	1.405	1.331	6.26
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.720	1.641	1.691	1.763	1.713	1.620	1.670	1.688	2.91
31) S	Terphenyl-d14	0.810	0.767	0.794	0.842	0.821	0.767	0.791	0.799	3.46
32)	Benzo(a)anthra...	1.227	1.187	1.178	1.343	1.303	1.272	1.350	1.265	5.59
33)	Chrysene	1.487	1.410	1.529	1.610	1.559	1.464	1.509	1.510	4.32
34)	Bis(2-ethylhex...	0.628	0.550	0.498	0.457	0.485	0.546	0.527		11.57
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN091924.M

36)	Indeno(1,2,3-c...	1.594	1.543	1.765	1.863	1.772	1.717	1.744	1.714	6.44
37)	Benzo(b)fluora...	1.427	1.415	1.453	1.625	1.695	1.657	1.696	1.567	8.25
38)	Benzo(k)fluora...	1.514	1.538	1.626	1.746	1.760	1.628	1.701	1.645	5.87
39) C	Benzo(a)pyrene	1.167	1.122	1.197	1.335	1.369	1.340	1.409	1.277	8.80
40)	Dibenzo(a,h)an...	1.212	1.185	1.352	1.458	1.390	1.355	1.369	1.331	7.36
41)	Benzo(g,h,i)pe...	1.446	1.408	1.505	1.608	1.534	1.477	1.491	1.495	4.30

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034033.D
 Acq On : 18 Sep 2024 11:53
 Operator : JU/RC
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 18 16:13:40 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

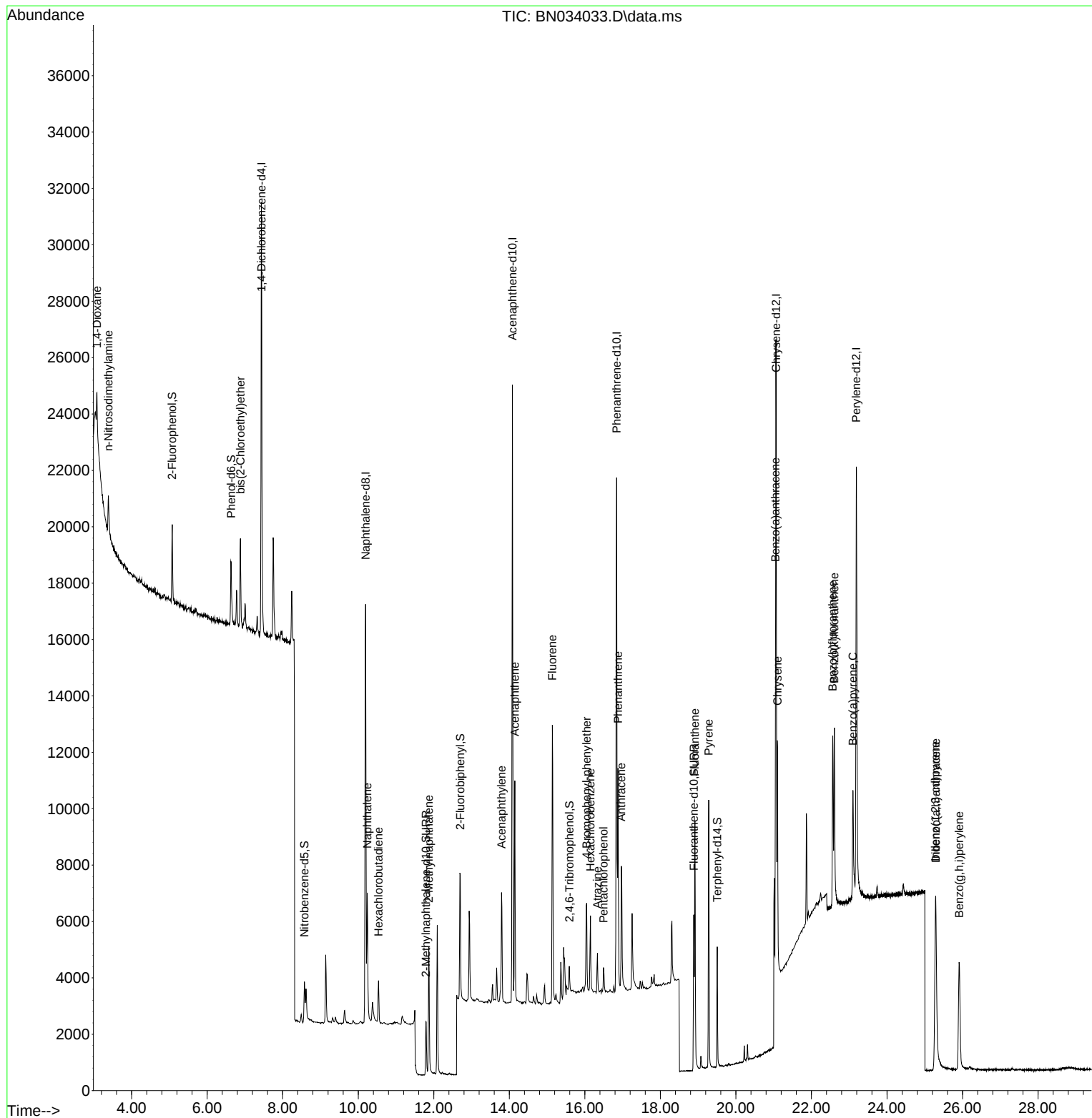
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	7282	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	20881	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	11814	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	26716	0.400	ng	0.00
29) Chrysene-d12	21.068	240	20245	0.400	ng	# 0.00
35) Perylene-d12	23.189	264	20942	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	2186	0.106	ng	0.00
5) Phenol-d6	6.635	99	2255	0.094	ng	0.00
8) Nitrobenzene-d5	8.574	82	1408	0.088	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	2963	0.096	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	477	0.089	ng	0.00
15) 2-Fluorobiphenyl	12.703	172	4812	0.100	ng	0.00
27) Fluoranthene-d10	18.887	212	6448	0.096	ng	0.00
31) Terphenyl-d14	19.504	244	4102	0.101	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.082	88	1016	0.112	ng	# 75
3) n-Nitrosodimethylamine	3.385	42	967	0.093	ng	# 87
6) bis(2-Chloroethyl)ether	6.880	93	2104	0.099	ng	99
9) Naphthalene	10.240	128	5699	0.099	ng	97
10) Hexachlorobutadiene	10.539	225	1128	0.104	ng	# 100
12) 2-Methylnaphthalene	11.869	142	3549	0.095	ng	98
16) Acenaphthylene	13.793	152	4519	0.089	ng	99
17) Acenaphthene	14.146	154	3563	0.098	ng	99
18) Fluorene	15.140	166	4672	0.098	ng	100
21) 4-Bromophenyl-phenylether	16.048	248	1455	0.097	ng	97
22) Hexachlorobenzene	16.147	284	1671	0.099	ng	100
23) Atrazine	16.334	200	1169	0.094	ng	95
24) Pentachlorophenol	16.495	266	518	0.093	ng	96
25) Phenanthrene	16.880	178	7703	0.100	ng	99
26) Anthracene	16.967	178	5457	0.087	ng	99
28) Fluoranthene	18.915	202	8339	0.094	ng	99
30) Pyrene	19.282	202	8705	0.102	ng	100
32) Benzo(a)anthracene	21.050	228	6208	0.097	ng	98
33) Chrysene	21.104	228	7525	0.098	ng	98
36) Indeno(1,2,3-cd)pyrene	25.282	276	8343	0.093	ng	99
37) Benzo(b)fluoranthene	22.566	252	7469	0.091	ng	# 77
38) Benzo(k)fluoranthene	22.607	252	7926	0.092	ng	# 80
39) Benzo(a)pyrene	23.098	252	6111	0.091	ng	# 67
40) Dibenzo(a,h)anthracene	25.297	278	6343	0.091	ng	# 86
41) Benzo(g,h,i)perylene	25.911	276	7573	0.097	ng	95

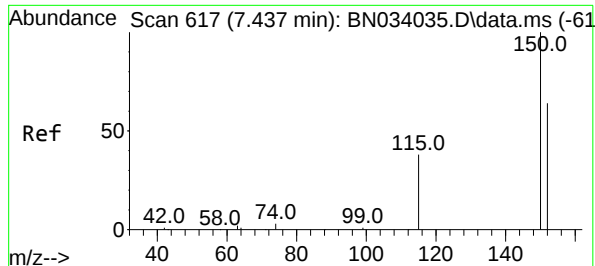
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034033.D
Acq On : 18 Sep 2024 11:53
Operator : JU/RC
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 18 16:13:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

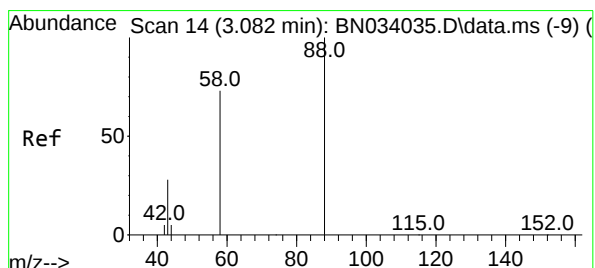
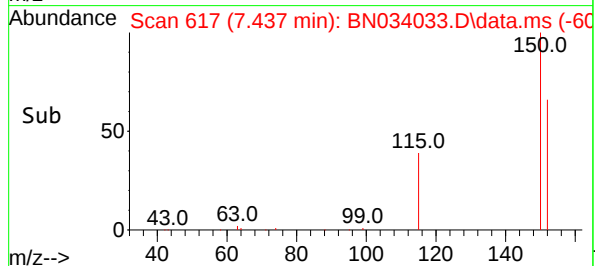
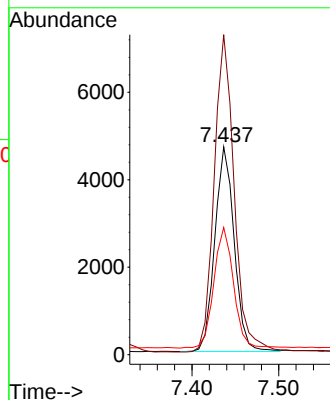
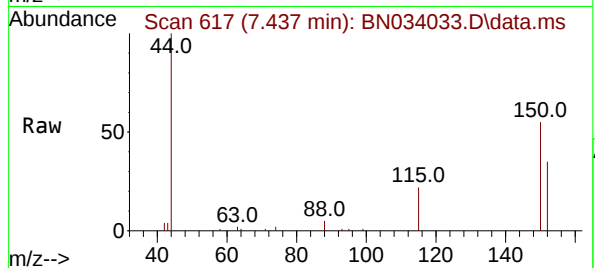




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

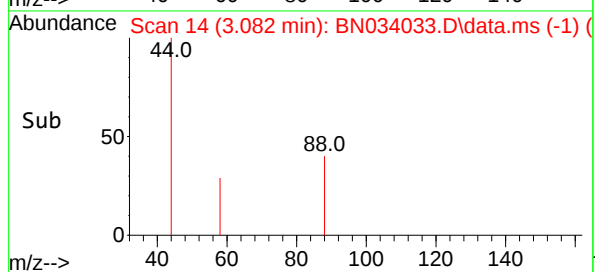
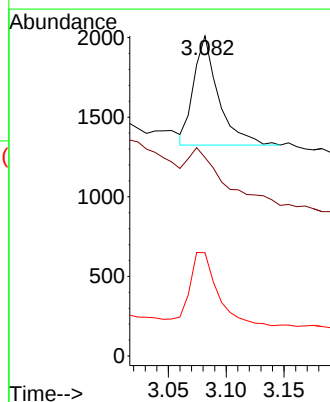
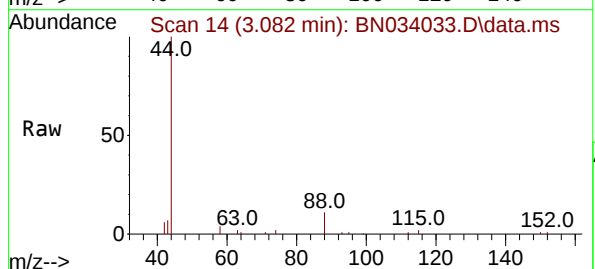
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

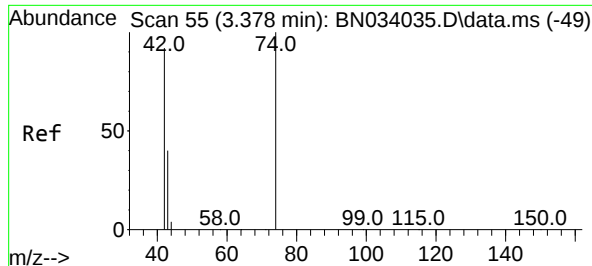
Tgt Ion:152 Resp: 7282
Ion Ratio Lower Upper
152 100
150 153.9 124.6 187.0
115 61.2 50.0 75.0



#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 88 Resp: 1016
Ion Ratio Lower Upper
88 100
43 75.2 25.8 38.8#
58 75.6 58.8 88.2

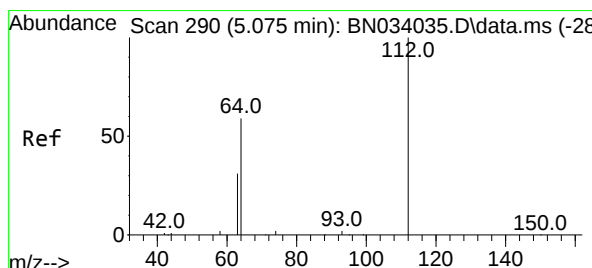
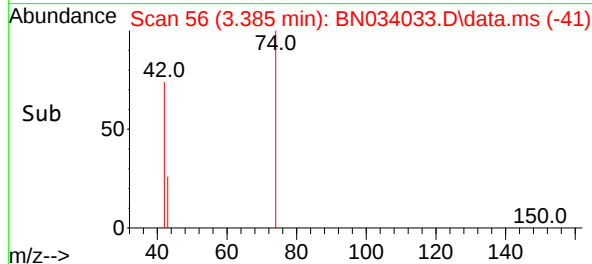
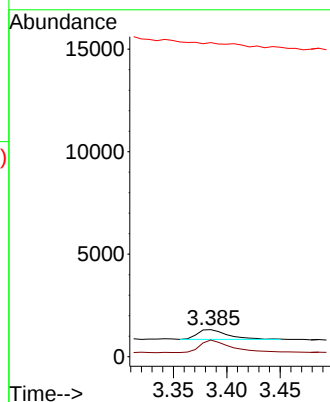
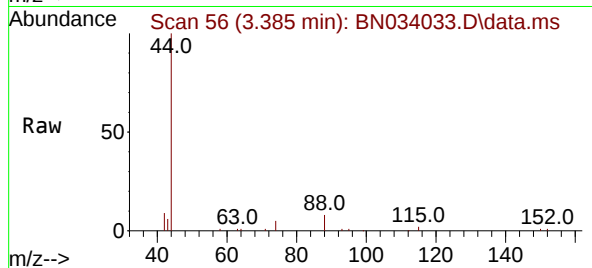




#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.385 min Scan# 50
Delta R.T. 0.007 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

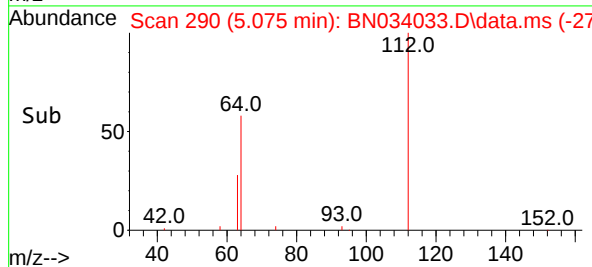
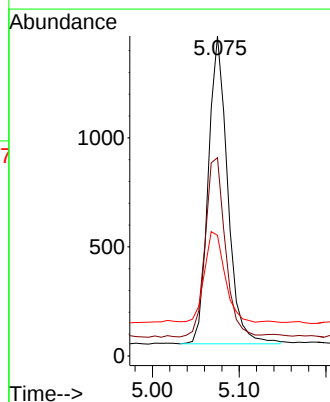
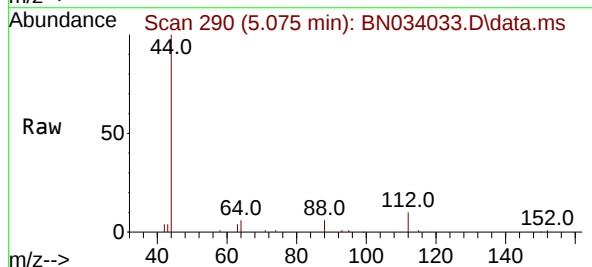
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

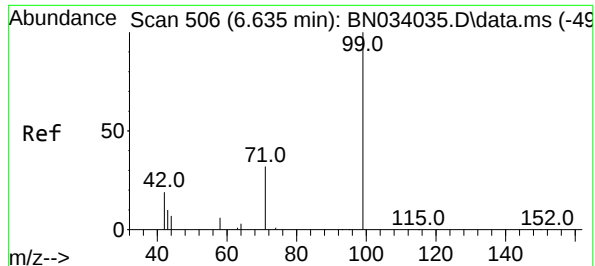
Tgt Ion: 42 Resp: 967
Ion Ratio Lower Upper
42 100
74 129.8 94.6 142.0
44 0.0 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 112 Resp: 2186
Ion Ratio Lower Upper
112 100
64 60.7 48.6 72.8
63 30.9 25.6 38.4

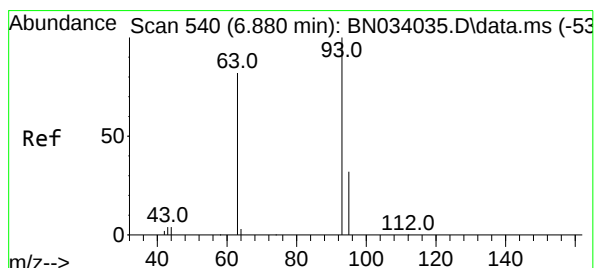
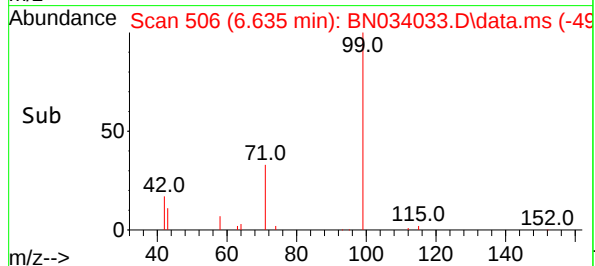
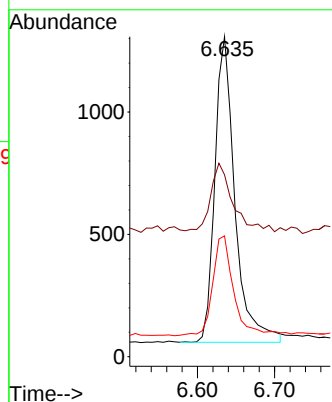
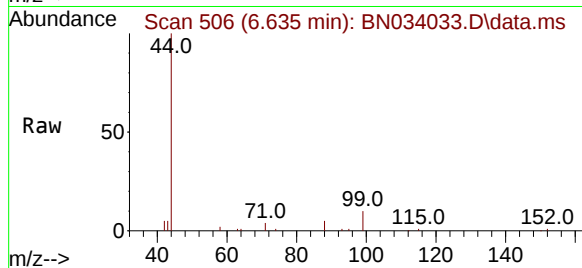




#5
Phenol-d6
Concen: 0.094 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

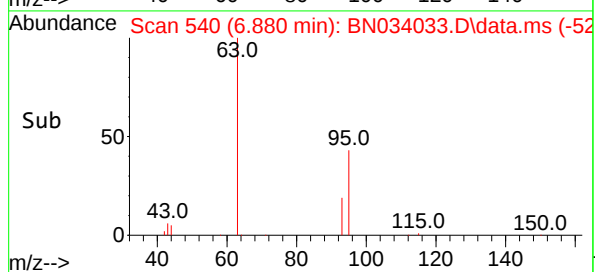
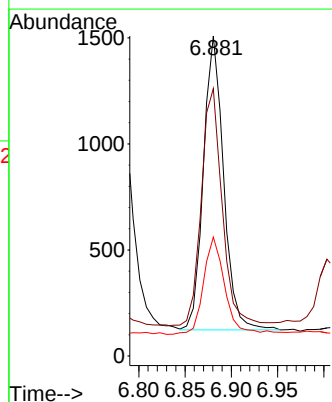
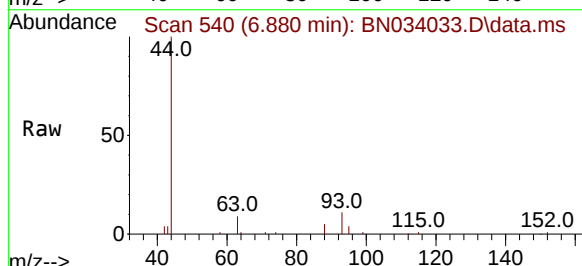
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

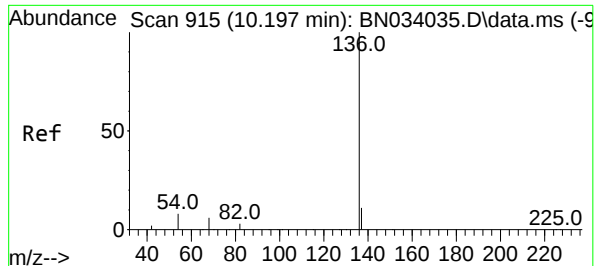
Tgt Ion: 99 Resp: 2255
Ion Ratio Lower Upper
99 100
42 24.6 17.8 26.8
71 34.1 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.099 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 93 Resp: 2104
Ion Ratio Lower Upper
93 100
63 83.7 67.3 100.9
95 35.1 26.8 40.2

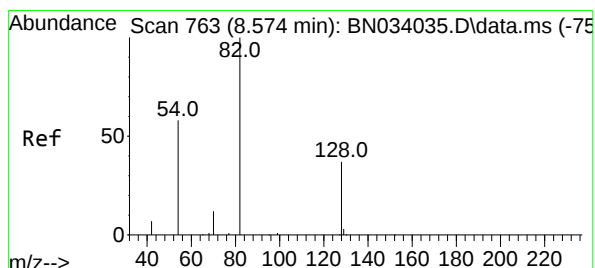
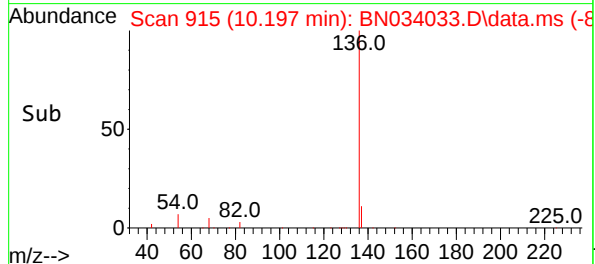
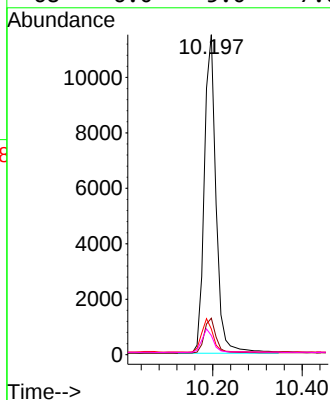
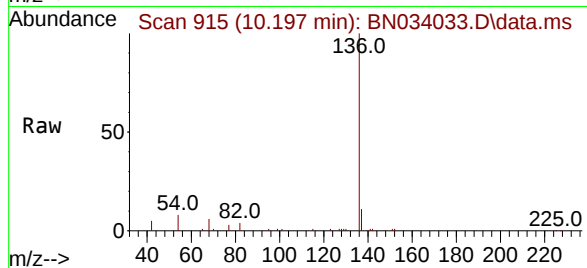




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

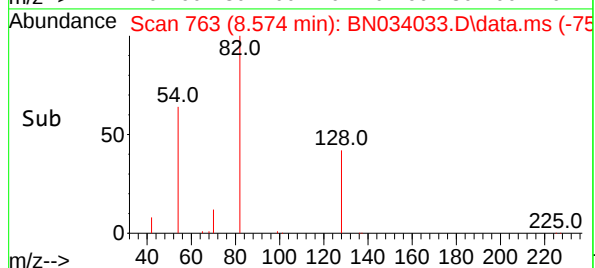
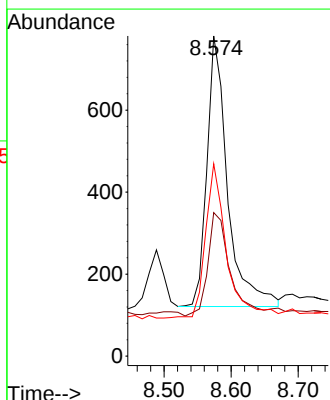
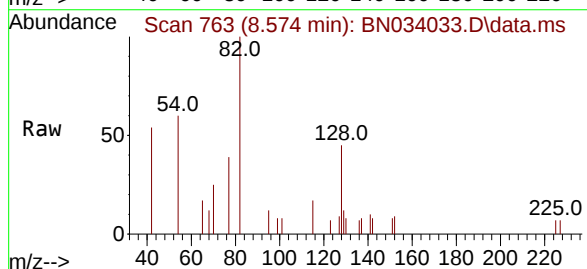
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

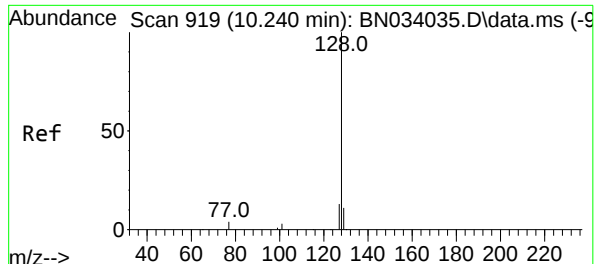
Tgt Ion:	136	Resp:	20881
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	8.0	6.8	10.2
68	6.0	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.088 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:	82	Resp:	1408
Ion	Ratio	Lower	Upper
82	100		
128	44.8	31.4	47.2
54	60.1	47.4	71.0

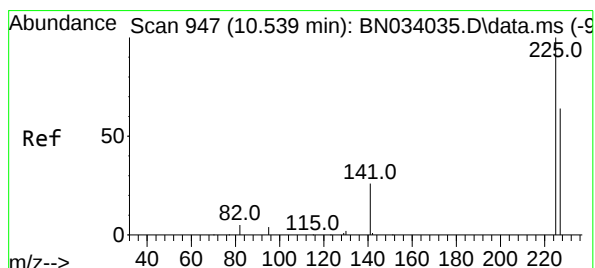
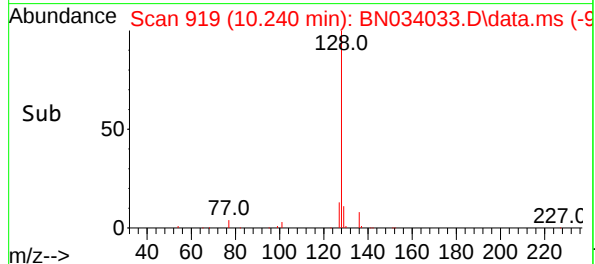
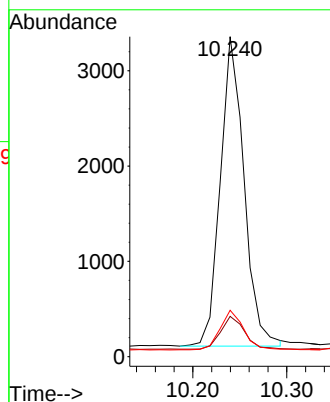
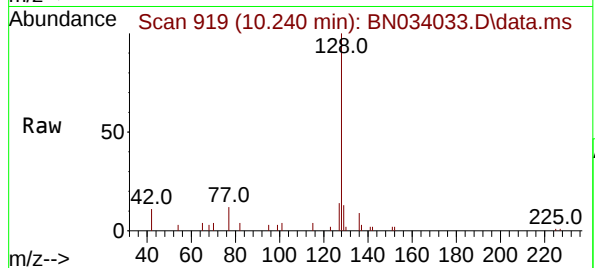




#9
Naphthalene
Concen: 0.099 ng
RT: 10.240 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

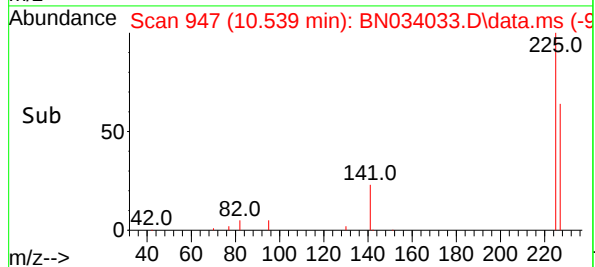
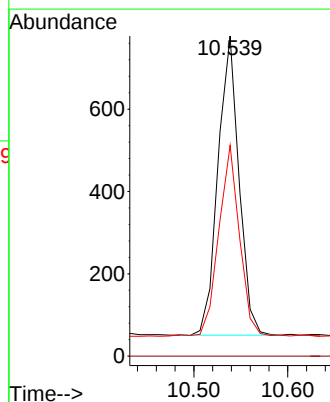
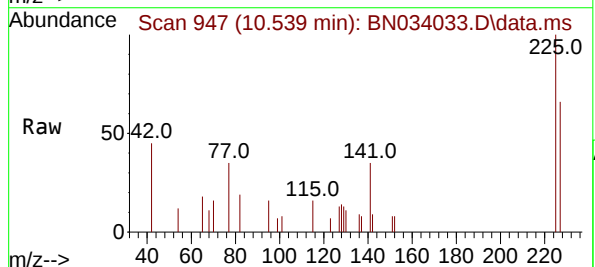
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

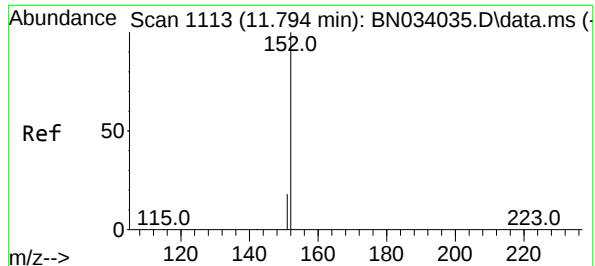
Tgt Ion	128	129	127
Resp:	5699		
Ion Ratio	100	12.6	14.5
Lower		9.2	10.7
Upper		13.8	16.1



#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion	225	223	227
Resp:	1128		
Ion Ratio	100	0.0	63.4
Lower		0.0	50.5
Upper		0.0	75.7

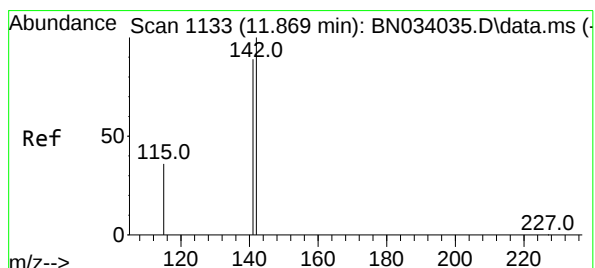
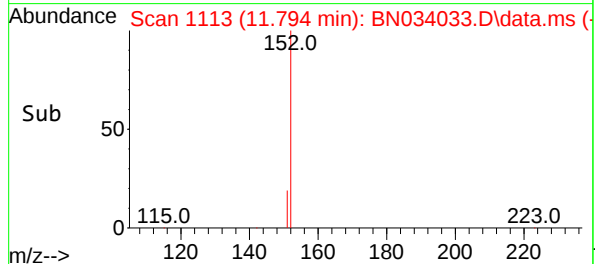
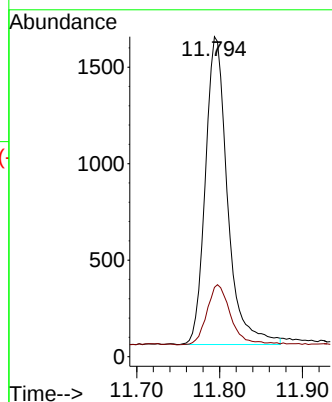
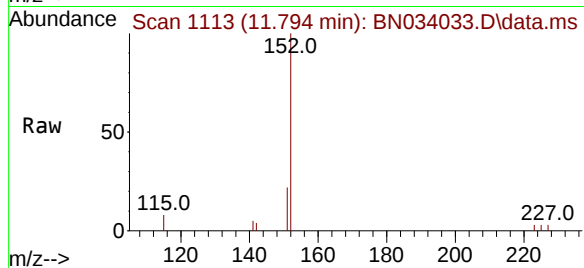




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

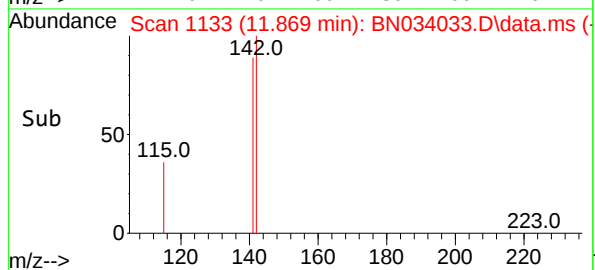
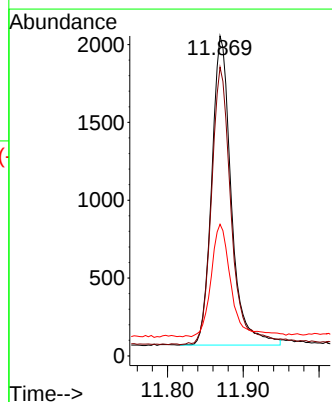
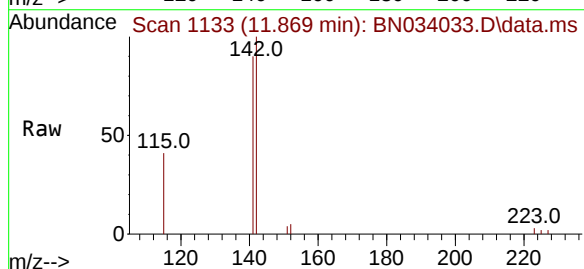
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

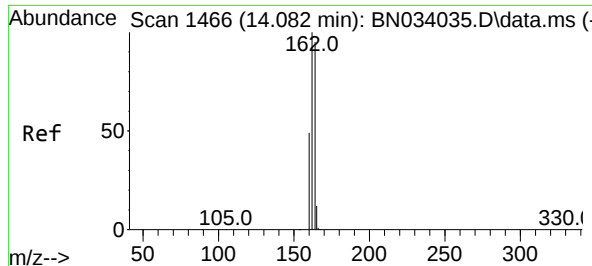
Tgt Ion:152 Resp: 2963
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:142 Resp: 3549
Ion Ratio Lower Upper
142 100
141 90.3 71.6 107.4
115 41.1 30.0 45.0

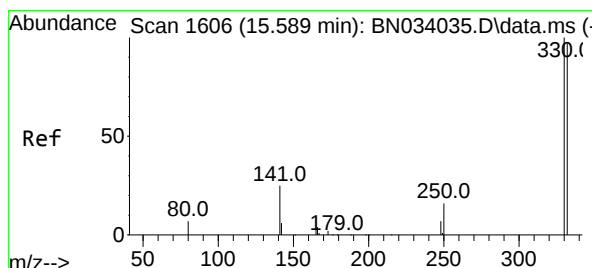
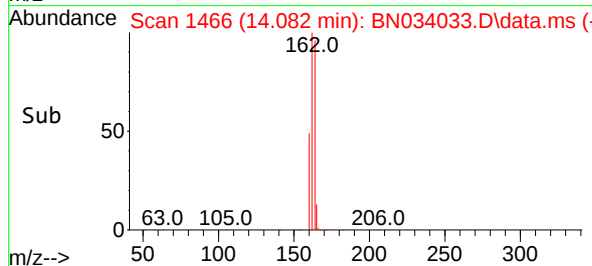
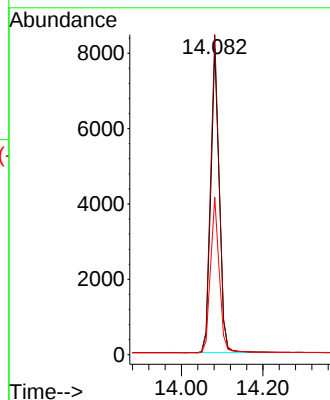
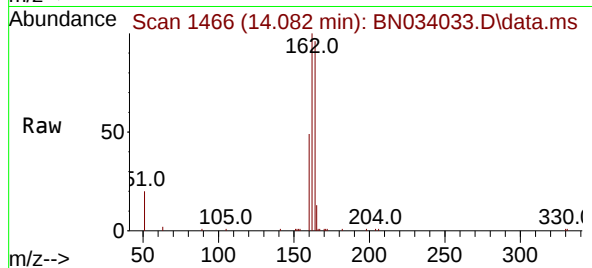




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

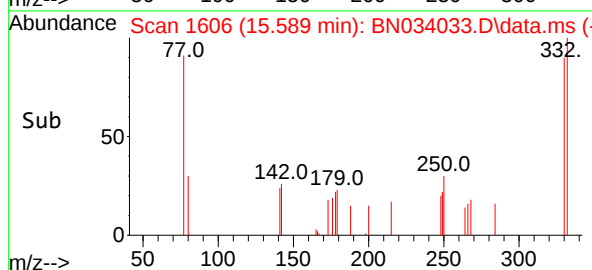
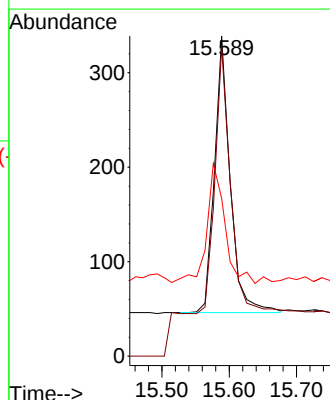
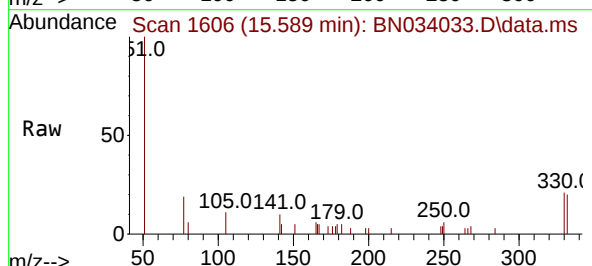
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

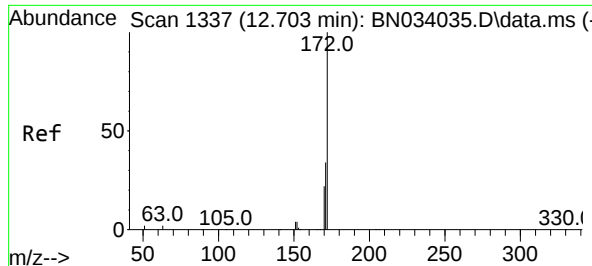
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	84.2	126.2
160	51.4	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.4	116.0
141	48.6	35.9	53.9





#15

2-Fluorobiphenyl

Concen: 0.100 ng

RT: 12.703 min Scan# 1337

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

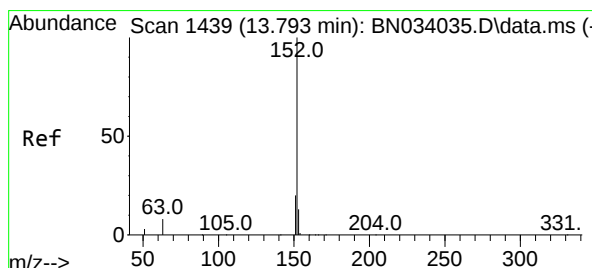
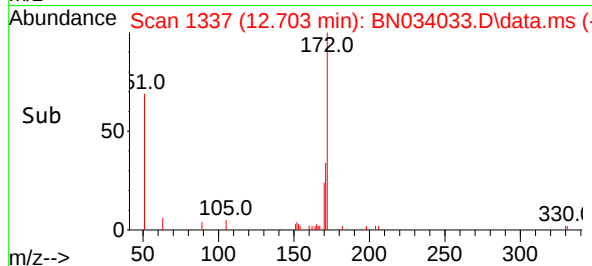
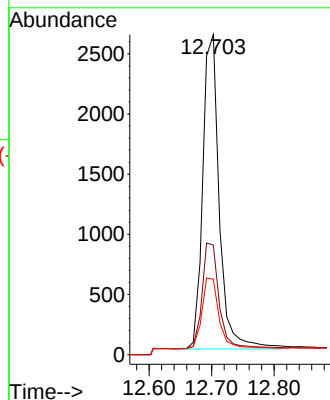
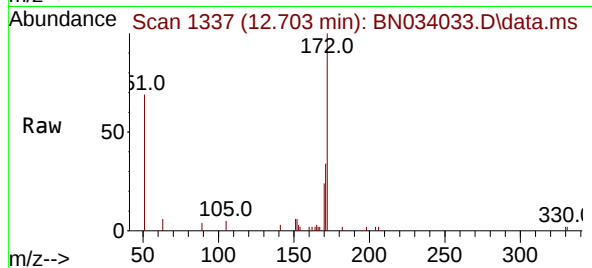
Tgt Ion:172 Resp: 4812

Ion Ratio Lower Upper

172 100

171 34.3 27.3 40.9

170 23.6 18.1 27.1



#16

Acenaphthylene

Concen: 0.089 ng

RT: 13.793 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

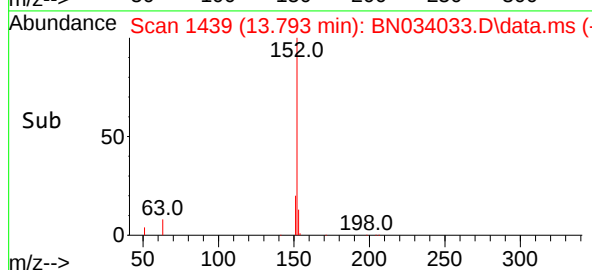
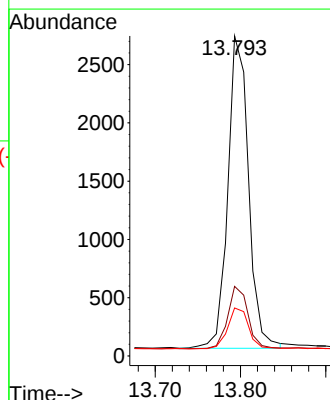
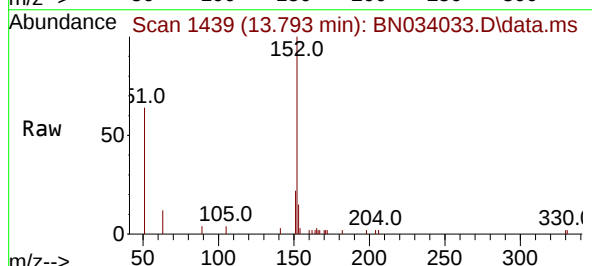
Tgt Ion:152 Resp: 4519

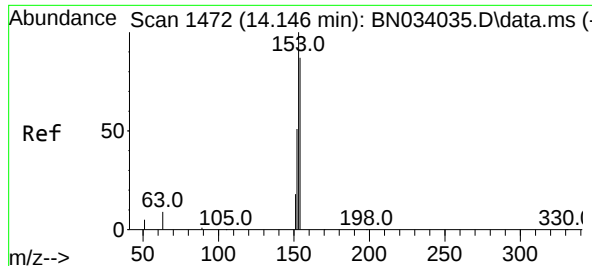
Ion Ratio Lower Upper

152 100

151 19.7 15.6 23.4

153 13.3 10.3 15.5

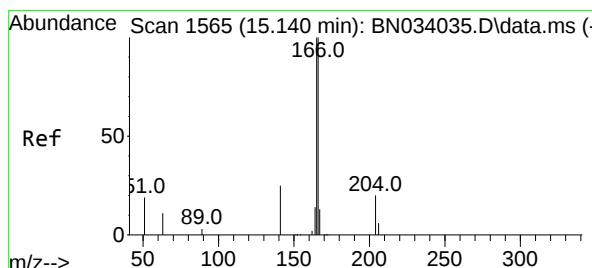
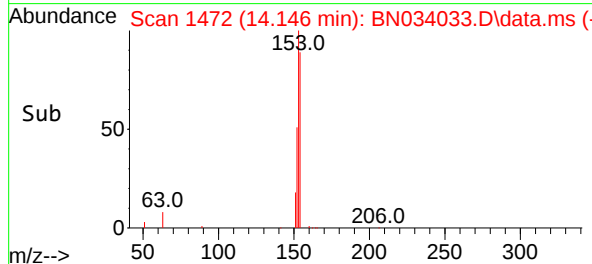
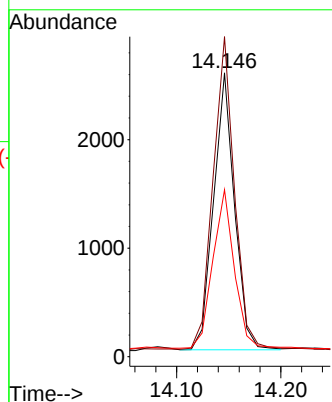
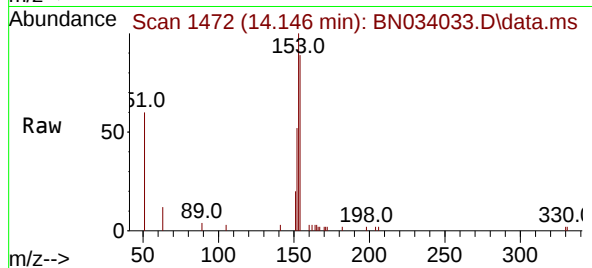




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.146 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

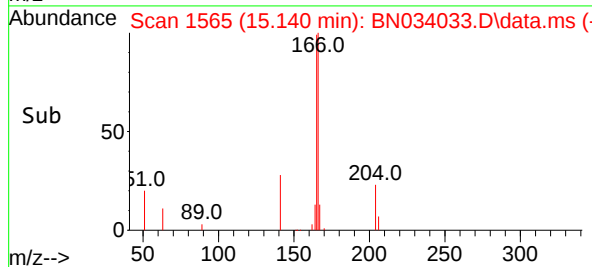
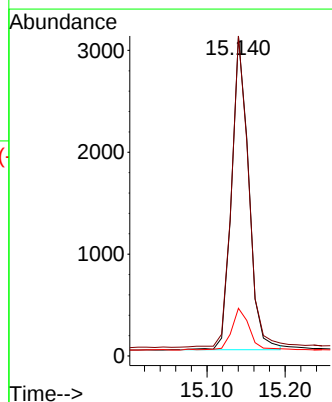
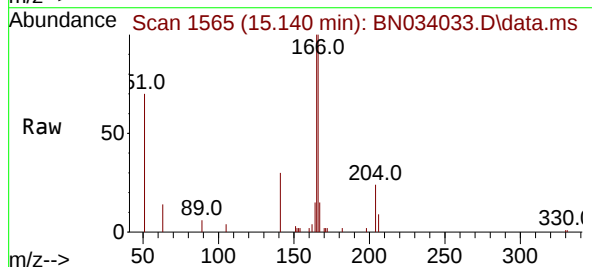
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

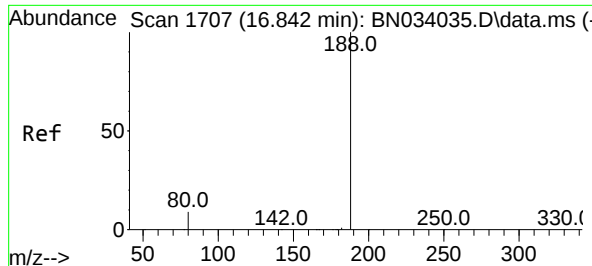
Tgt Ion:154 Resp: 3563
Ion Ratio Lower Upper
154 100
153 115.0 91.6 137.4
152 58.7 47.4 71.2



#18
Fluorene
Concen: 0.098 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:166 Resp: 4672
Ion Ratio Lower Upper
166 100
165 98.7 79.1 118.7
167 13.8 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

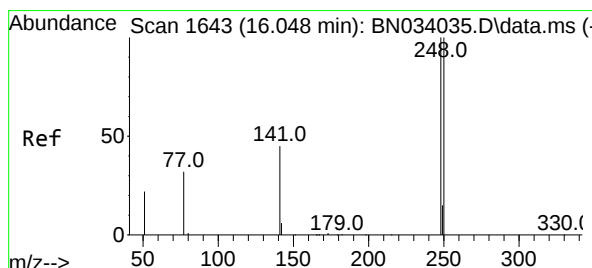
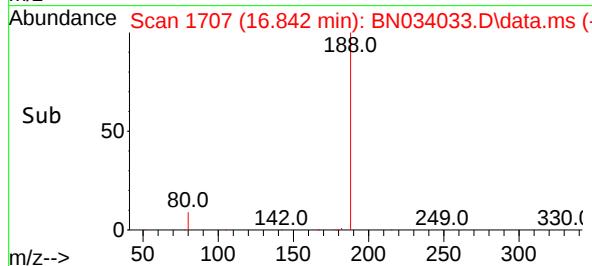
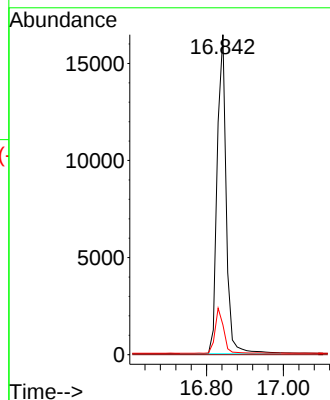
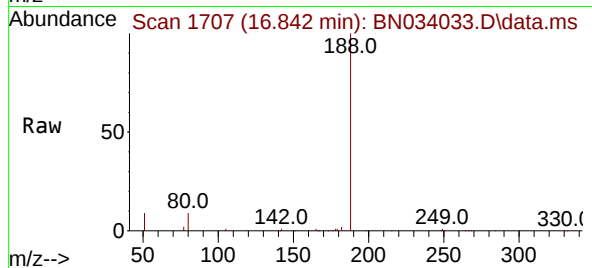
Tgt Ion:188 Resp: 26716

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 7.4 11.0



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.048 min Scan# 1643

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

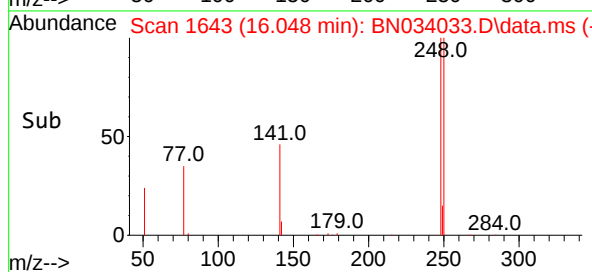
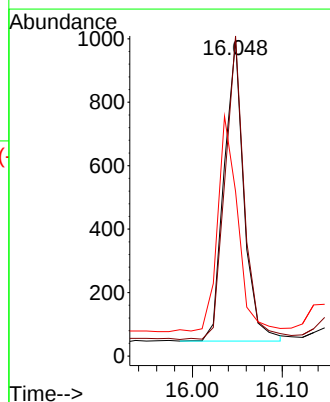
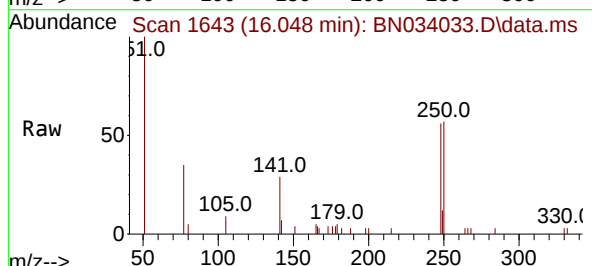
Tgt Ion:248 Resp: 1455

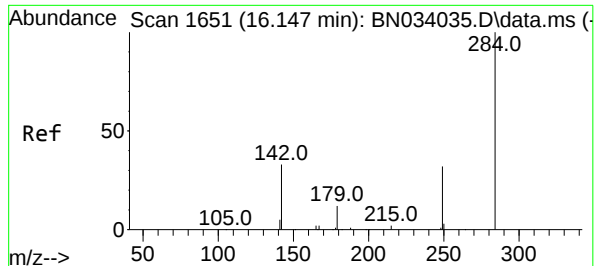
Ion Ratio Lower Upper

248 100

250 101.2 80.5 120.7

141 52.1 37.1 55.7





#22

Hexachlorobenzene

Concen: 0.099 ng

RT: 16.147 min Scan# 1651

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

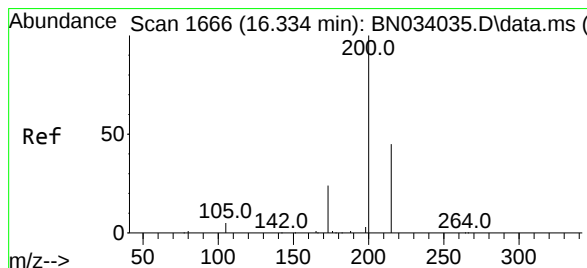
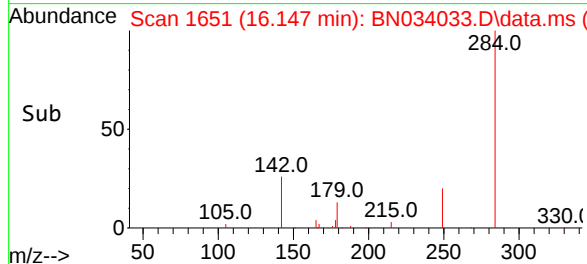
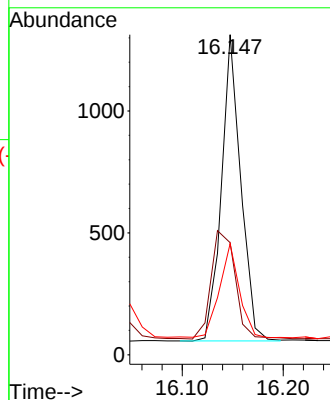
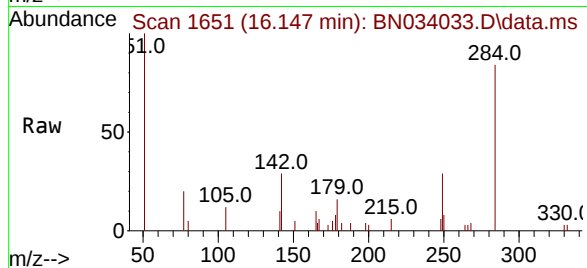
Tgt Ion:284 Resp: 1671

Ion Ratio Lower Upper

284 100

142 43.2 34.5 51.7

249 31.7 25.8 38.6



#23

Atrazine

Concen: 0.094 ng

RT: 16.334 min Scan# 1666

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

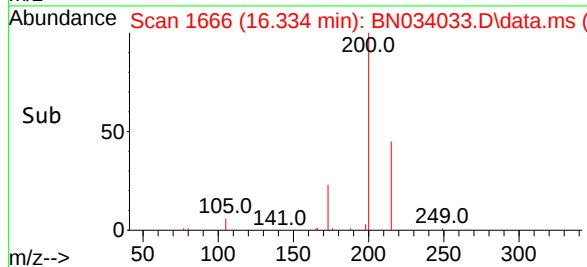
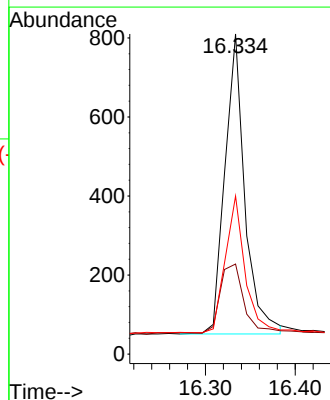
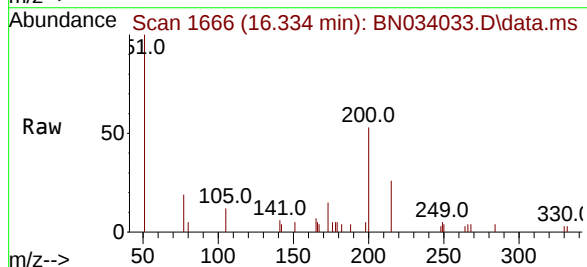
Tgt Ion:200 Resp: 1169

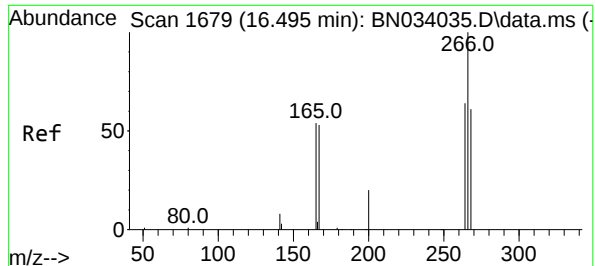
Ion Ratio Lower Upper

200 100

173 28.1 20.1 30.1

215 49.4 37.0 55.6

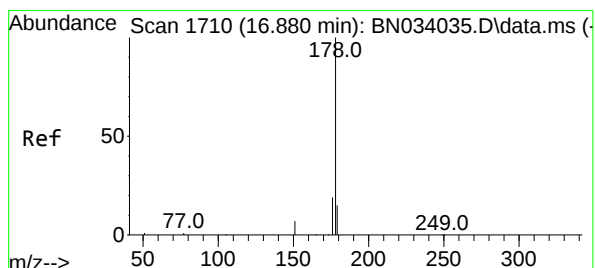
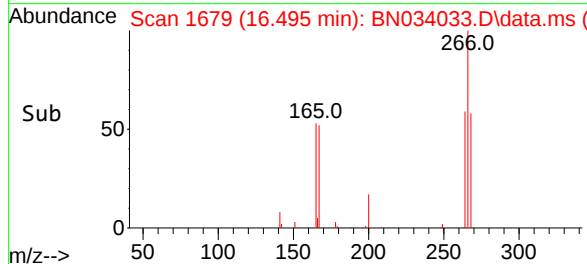
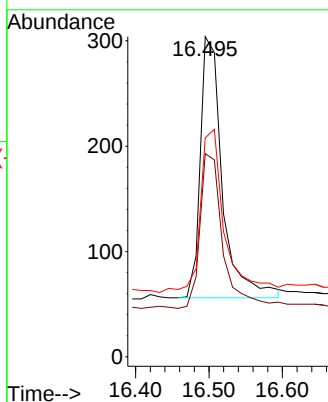
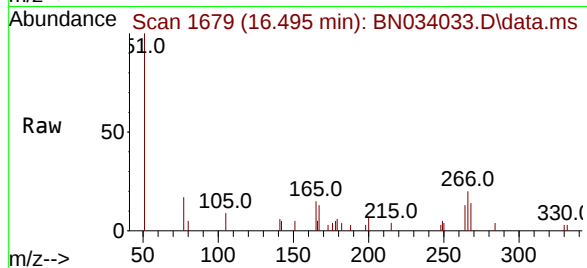




#24
Pentachlorophenol
Concen: 0.093 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

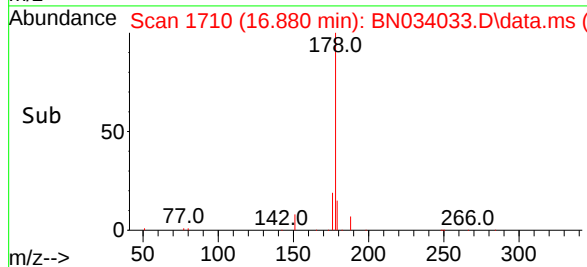
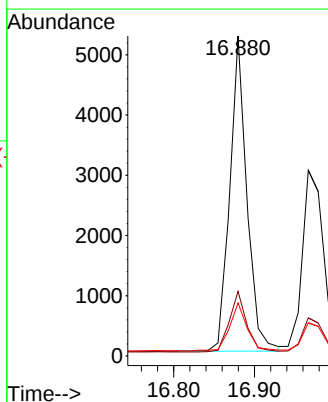
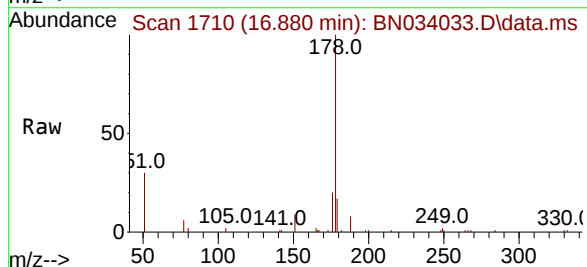
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

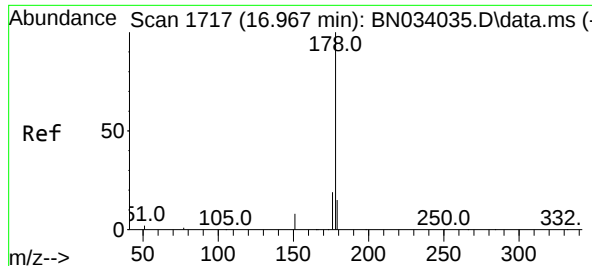
Tgt Ion:266 Resp: 518
Ion Ratio Lower Upper
266 100
264 61.2 50.2 75.2
268 68.0 51.0 76.4



#25
Phenanthrene
Concen: 0.100 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:178 Resp: 7703
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.9 12.1 18.1





#26

Anthracene

Concen: 0.087 ng

RT: 16.967 min Scan# 1717

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

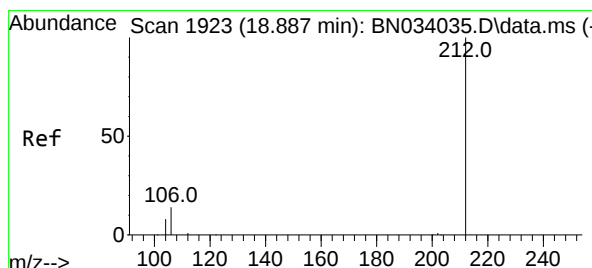
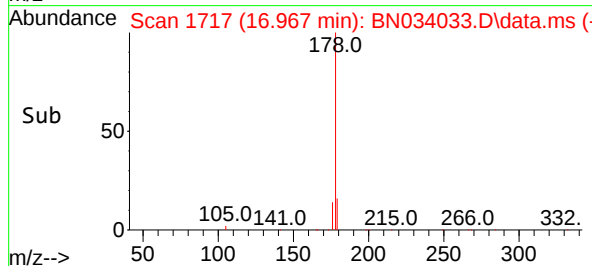
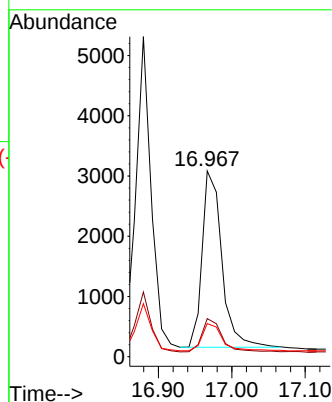
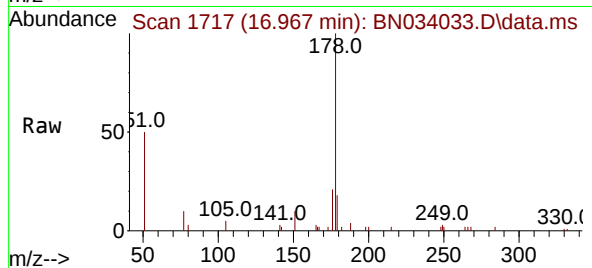
Tgt Ion:178 Resp: 5457

Ion Ratio Lower Upper

178 100

176 19.3 15.0 22.6

179 15.7 12.2 18.4



#27

Fluoranthene-d10

Concen: 0.096 ng

RT: 18.887 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

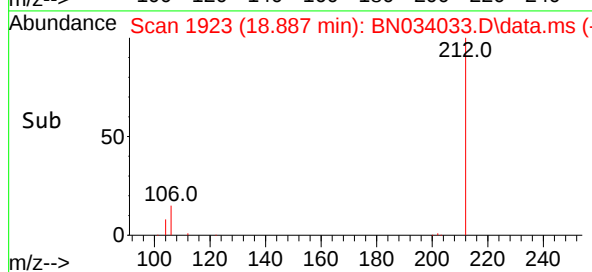
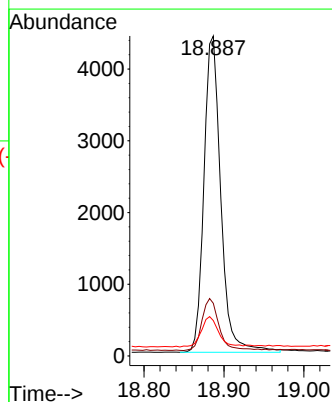
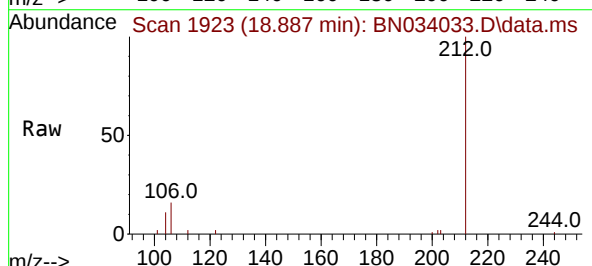
Tgt Ion:212 Resp: 6448

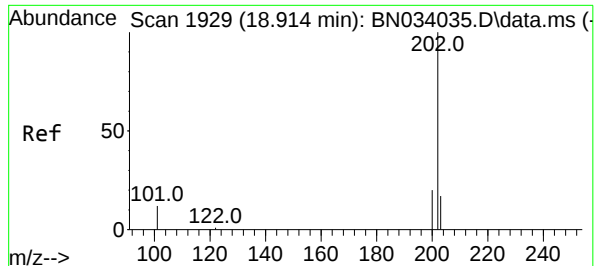
Ion Ratio Lower Upper

212 100

106 16.8 13.4 20.2

104 9.7 7.8 11.6

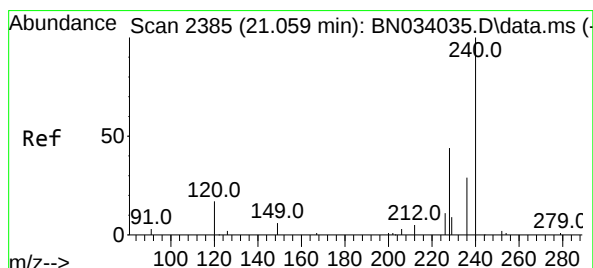
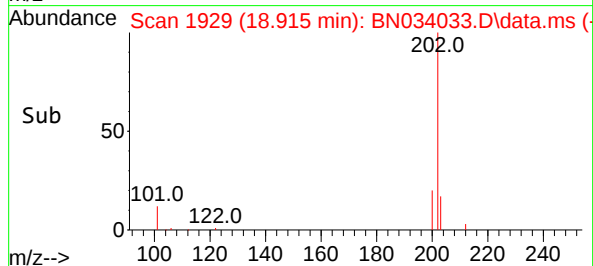
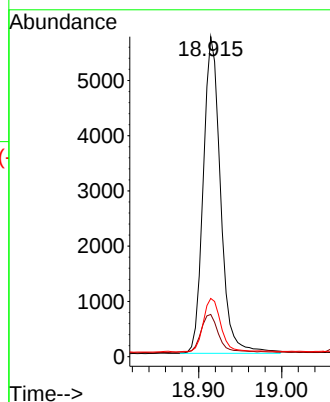
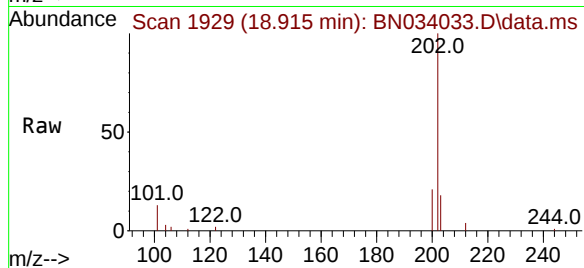




#28
Fluoranthene
Concen: 0.094 ng
RT: 18.915 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

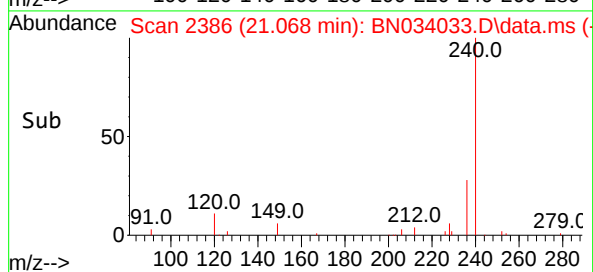
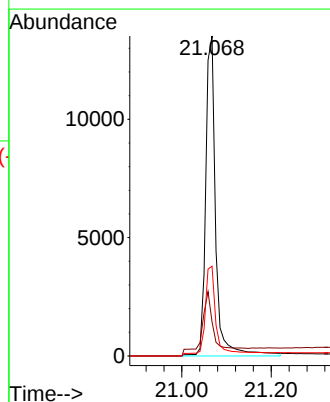
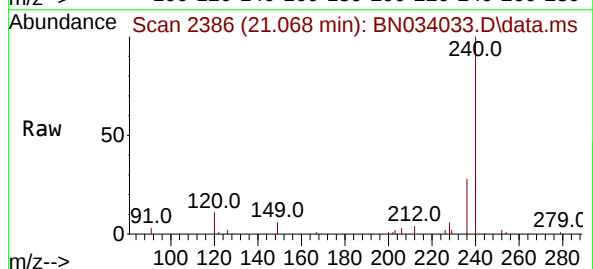
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

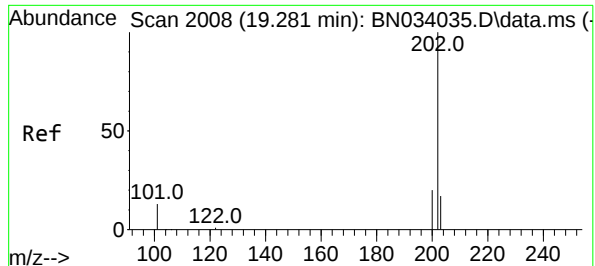
Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.1	15.1
203	17.0	13.6	20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.068 min Scan# 2386
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion	Ratio	Lower	Upper
240	100		
120	10.7	13.5	20.3
236	28.0	23.4	35.0





#30

Pyrene

Concen: 0.102 ng

RT: 19.282 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

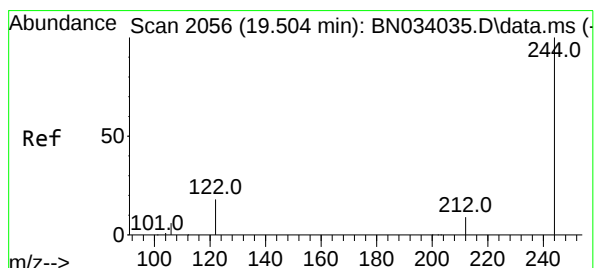
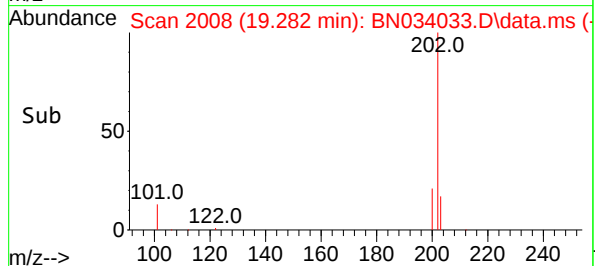
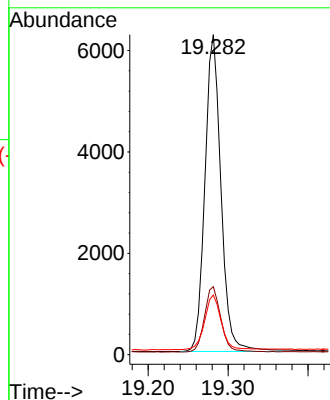
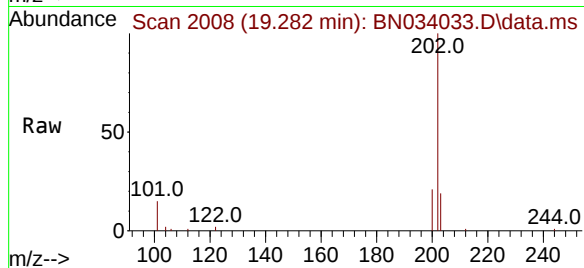
Tgt Ion:202 Resp: 8705

Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.0 14.3 21.5



#31

Terphenyl-d14

Concen: 0.101 ng

RT: 19.504 min Scan# 2056

Delta R.T. 0.000 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

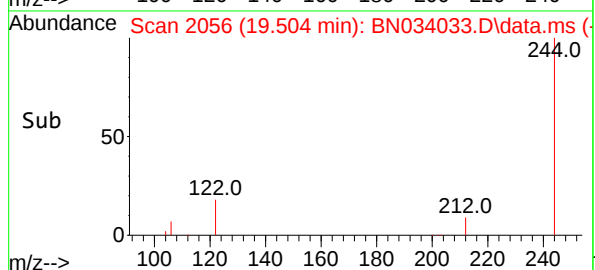
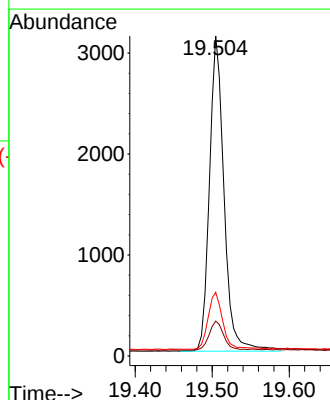
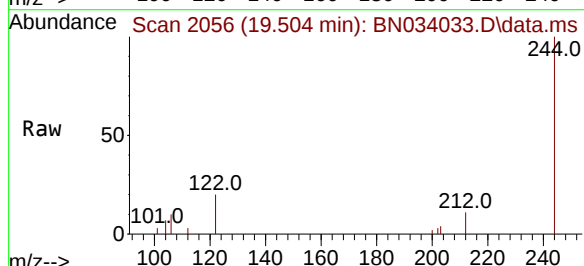
Tgt Ion:244 Resp: 4102

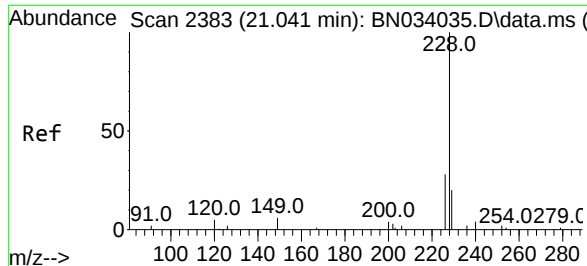
Ion Ratio Lower Upper

244 100

212 10.9 7.8 11.6

122 19.9 14.8 22.2

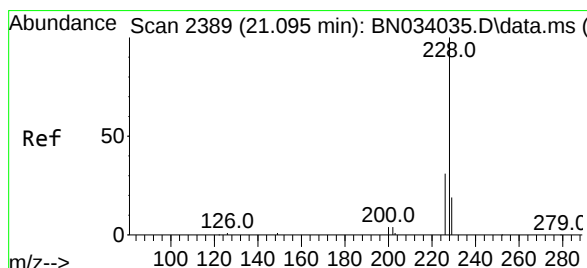
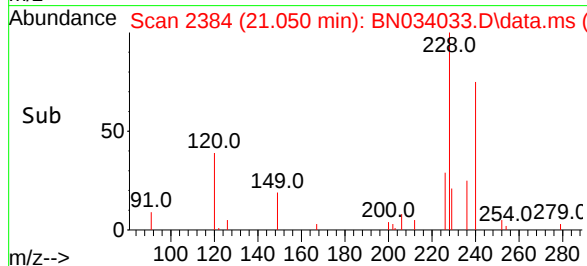
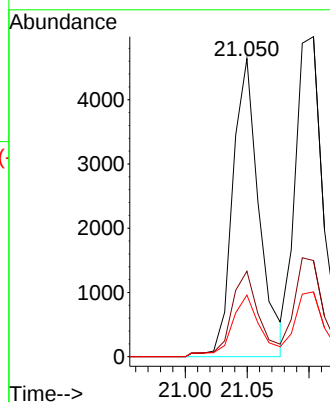
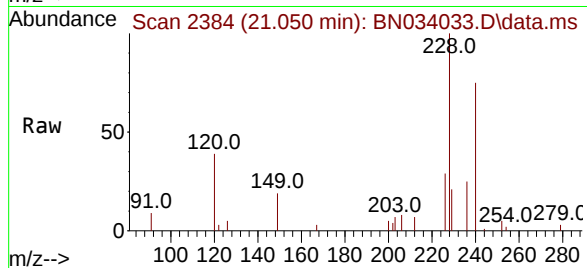




#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.050 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

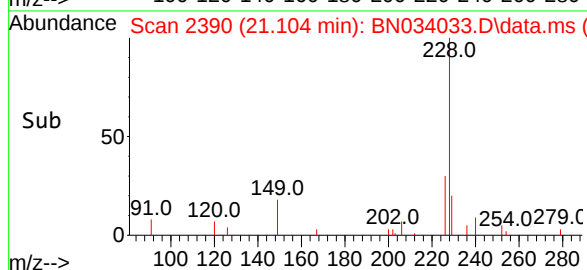
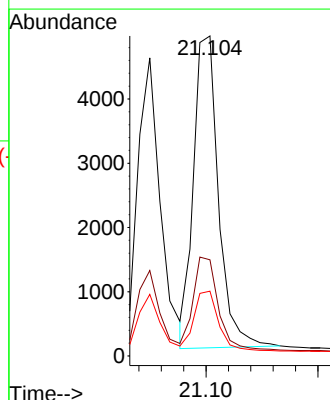
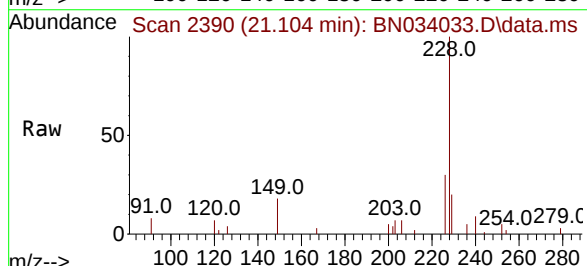
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

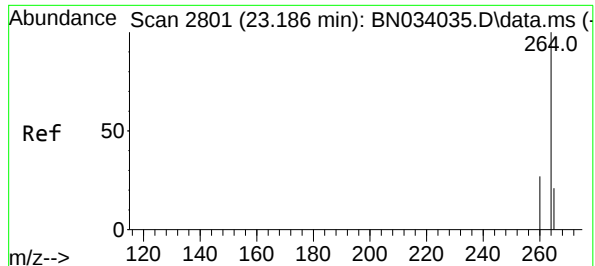
Tgt Ion:228 Resp: 6208
Ion Ratio Lower Upper
228 100
226 28.7 22.3 33.5
229 20.7 15.7 23.5



#33
Chrysene
Concen: 0.098 ng
RT: 21.104 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:228 Resp: 7525
Ion Ratio Lower Upper
228 100
226 30.0 24.6 37.0
229 20.2 15.5 23.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.189 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

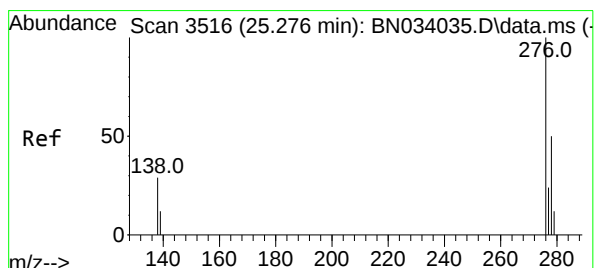
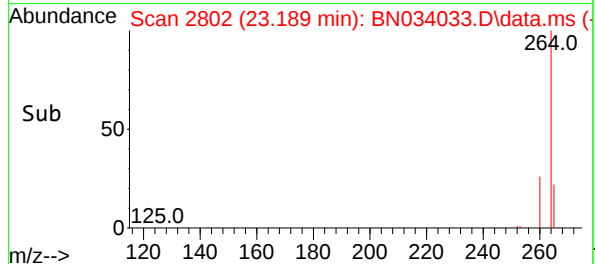
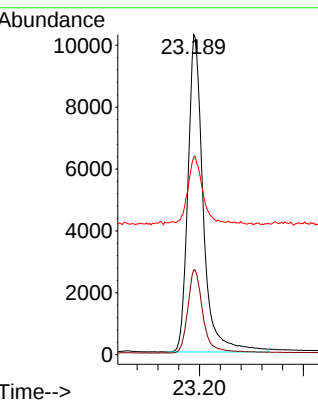
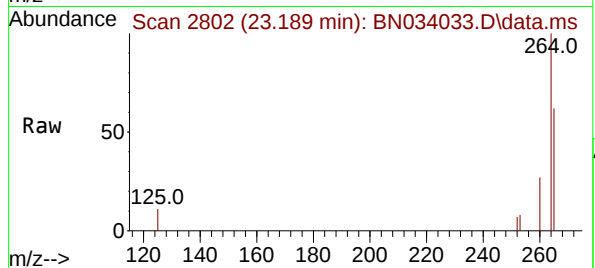
Tgt Ion:264 Resp: 20942

Ion Ratio Lower Upper

264 100

260 26.5 21.7 32.5

265 61.8 52.1 78.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.093 ng

RT: 25.282 min Scan# 3518

Delta R.T. 0.006 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

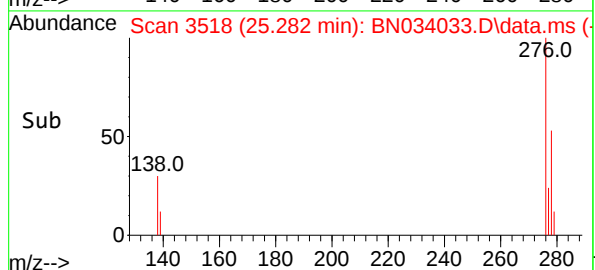
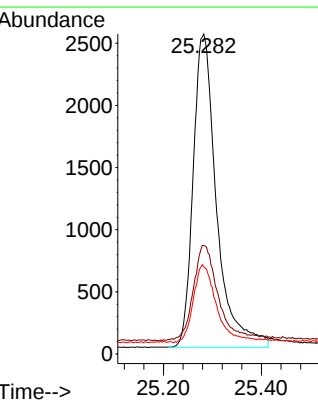
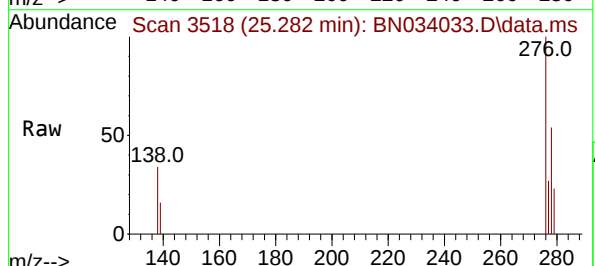
Tgt Ion:276 Resp: 8343

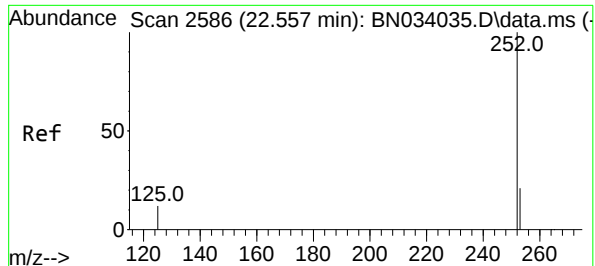
Ion Ratio Lower Upper

276 100

138 31.5 25.9 38.9

277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.091 ng

RT: 22.566 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

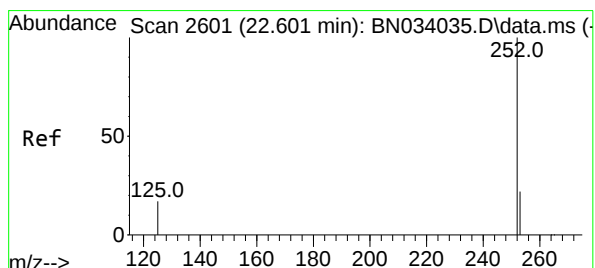
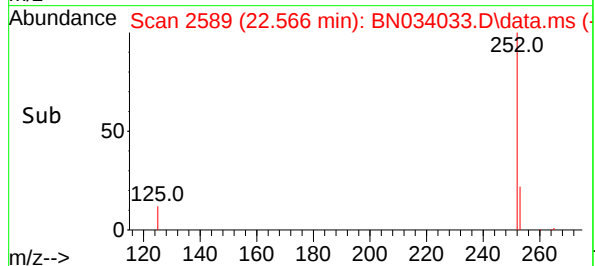
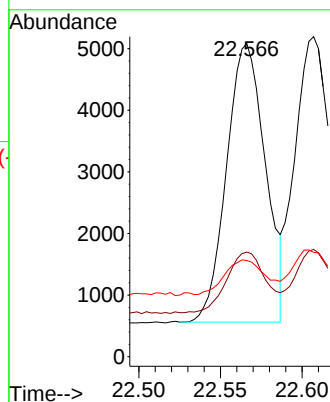
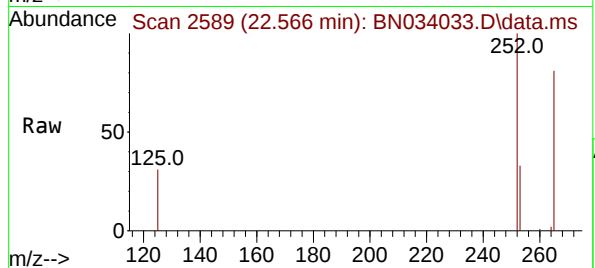
Tgt Ion:252 Resp: 7469

Ion Ratio Lower Upper

252 100

253 33.4 19.6 29.4#

125 30.7 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 0.092 ng

RT: 22.607 min Scan# 2603

Delta R.T. 0.006 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

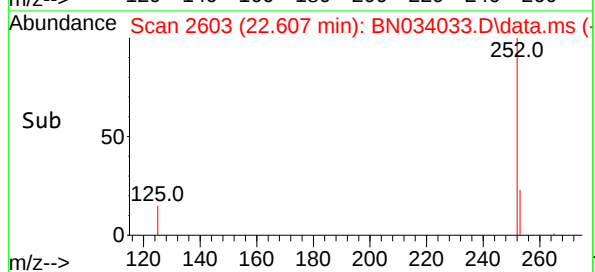
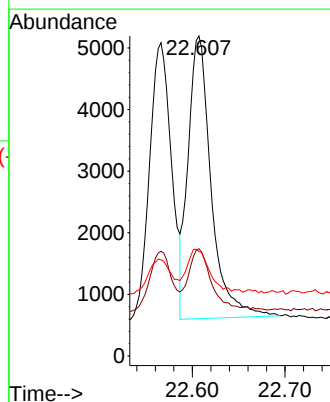
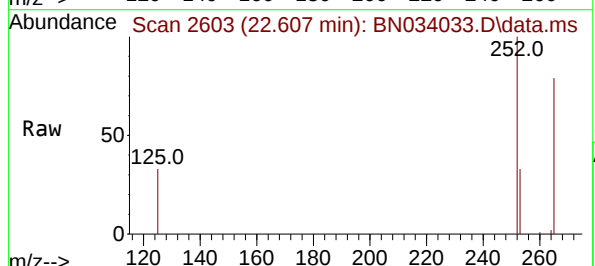
Tgt Ion:252 Resp: 7926

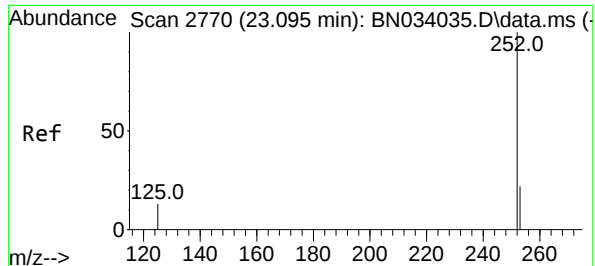
Ion Ratio Lower Upper

252 100

253 33.5 20.1 30.1#

125 32.6 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.098 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

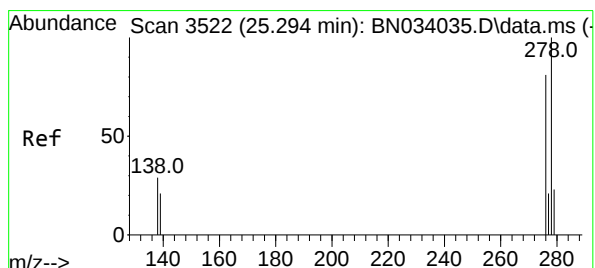
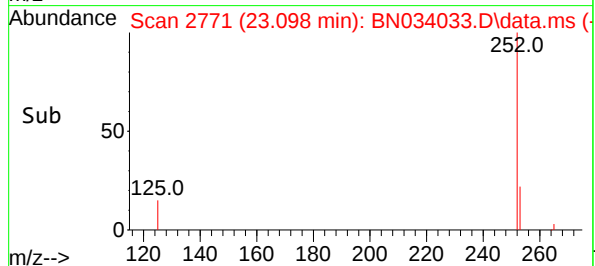
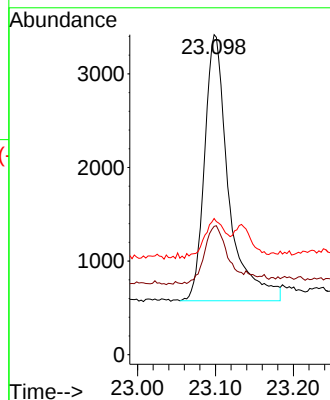
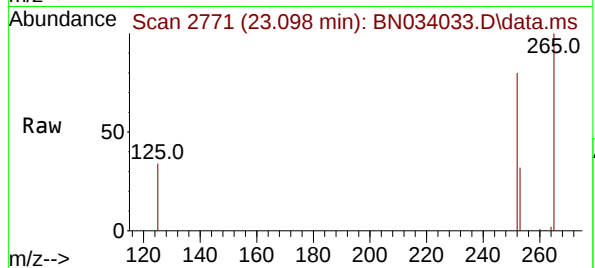
Tgt Ion:252 Resp: 6111

Ion Ratio Lower Upper

252 100

253 40.1 21.8 32.8#

125 42.6 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng

RT: 25.297 min Scan# 3523

Delta R.T. 0.003 min

Lab File: BN034033.D

Acq: 18 Sep 2024 11:53

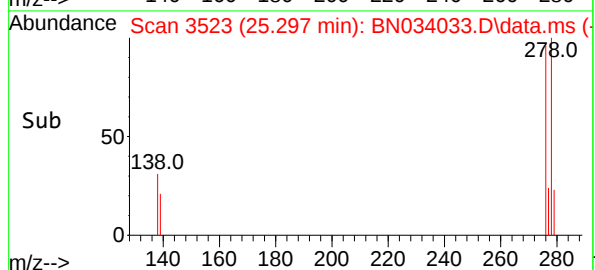
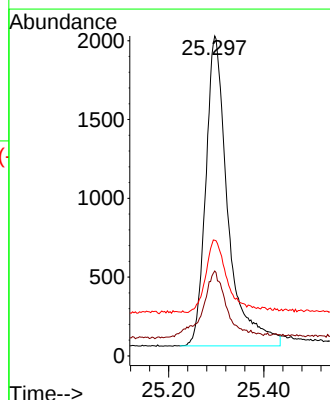
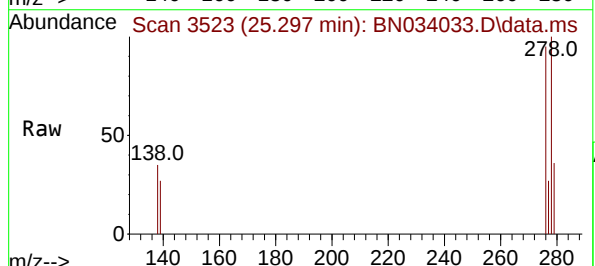
Tgt Ion:278 Resp: 6343

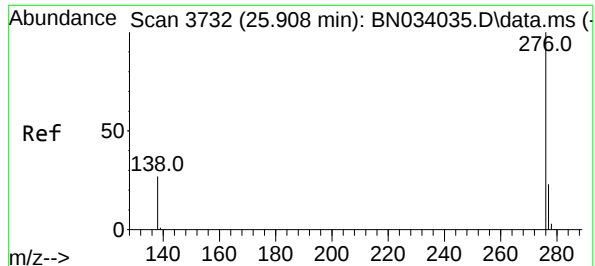
Ion Ratio Lower Upper

278 100

139 26.6 17.8 26.8

279 36.2 21.0 31.6#





#41

Benzo(g,h,i)perylene

Concen: 0.097 ng

RT: 25.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN034033.D

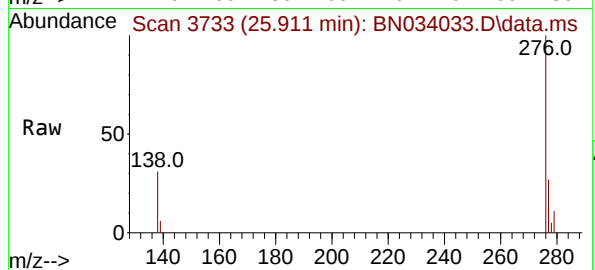
Acq: 18 Sep 2024 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



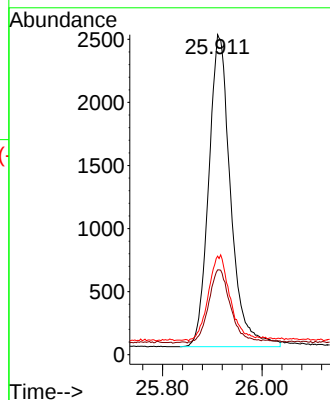
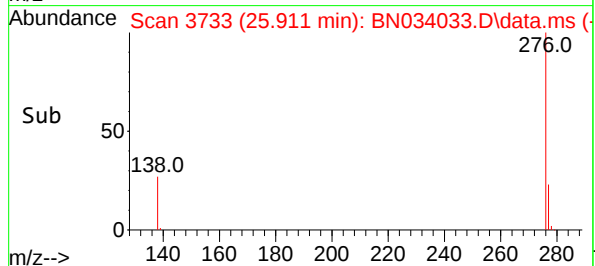
Tgt Ion:276 Resp: 7573

Ion Ratio Lower Upper

276 100

277 26.5 19.3 28.9

138 30.8 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034034.D
 Acq On : 18 Sep 2024 12:29
 Operator : JU/RC
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 18 16:14:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

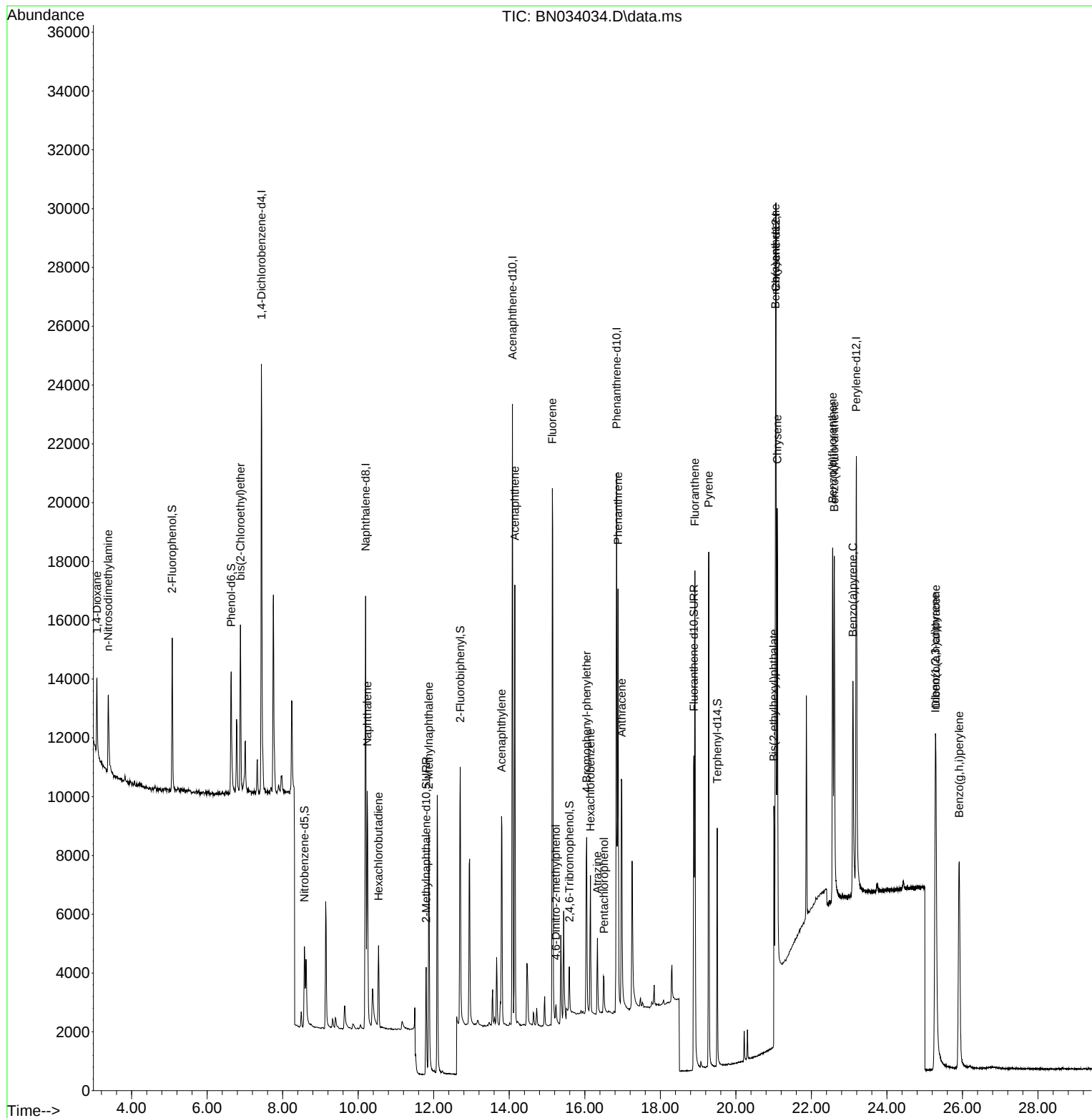
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	7016	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	20105	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	11454	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	25709	0.400	ng	0.00
29) Chrysene-d12	21.059	240	19925	0.400	ng	0.00
35) Perylene-d12	23.189	264	20082	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	4058	0.204	ng	0.00
5) Phenol-d6	6.635	99	4263	0.184	ng	0.00
8) Nitrobenzene-d5	8.574	82	2705	0.176	ng	0.00
11) 2-Methylnaphthalene-d10	11.797	152	5570	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	896	0.173	ng	0.00
15) 2-Fluorobiphenyl	12.703	172	9027	0.194	ng	0.00
27) Fluoranthene-d10	18.887	212	12178	0.188	ng	0.00
31) Terphenyl-d14	19.505	244	7642	0.192	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.082	88	1881	0.214	ng	96
3) n-Nitrosodimethylamine	3.378	42	2003	0.201	ng	# 96
6) bis(2-Chloroethyl)ether	6.881	93	3843	0.188	ng	98
9) Naphthalene	10.240	128	10671	0.193	ng	99
10) Hexachlorobutadiene	10.539	225	2086	0.201	ng	# 100
12) 2-Methylnaphthalene	11.869	142	6747	0.188	ng	99
16) Acenaphthylene	13.793	152	8658	0.177	ng	99
17) Acenaphthene	14.146	154	6769	0.192	ng	100
18) Fluorene	15.140	166	8809	0.191	ng	100
20) 4,6-Dinitro-2-methylph...	15.236	198	541	0.251	ng	# 1
21) 4-Bromophenyl-phenylether	16.048	248	2704	0.187	ng	96
22) Hexachlorobenzene	16.147	284	3160	0.195	ng	100
23) Atrazine	16.334	200	2189	0.183	ng	98
24) Pentachlorophenol	16.507	266	836	0.156	ng	99
25) Phenanthrene	16.880	178	14012	0.190	ng	100
26) Anthracene	16.979	178	10619	0.176	ng	99
28) Fluoranthene	18.915	202	15759	0.184	ng	99
30) Pyrene	19.282	202	16347	0.194	ng	100
32) Benzo(a)anthracene	21.050	228	11821	0.188	ng	99
33) Chrysene	21.095	228	14045	0.187	ng	99
34) Bis(2-ethylhexyl)phtha...	21.005	149	6255	0.238	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.279	276	15490	0.180	ng	99
37) Benzo(b)fluoranthene	22.563	252	14213	0.181	ng	# 92
38) Benzo(k)fluoranthene	22.604	252	15443	0.187	ng	94
39) Benzo(a)pyrene	23.098	252	11266	0.176	ng	# 88
40) Dibenzo(a,h)anthracene	25.297	278	11898	0.178	ng	94
41) Benzo(g,h,i)perylene	25.914	276	14133	0.188	ng	98

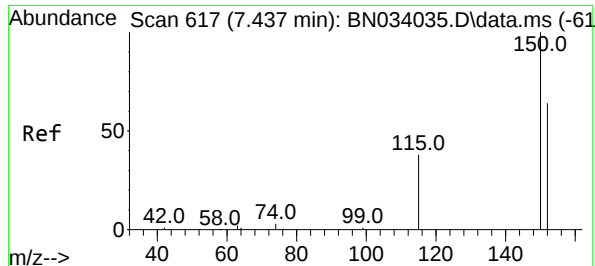
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034034.D
Acq On : 18 Sep 2024 12:29
Operator : JU/RC
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 18 16:14:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

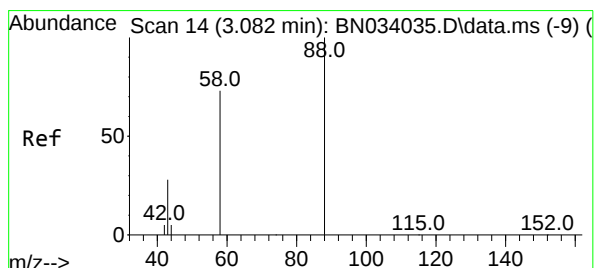
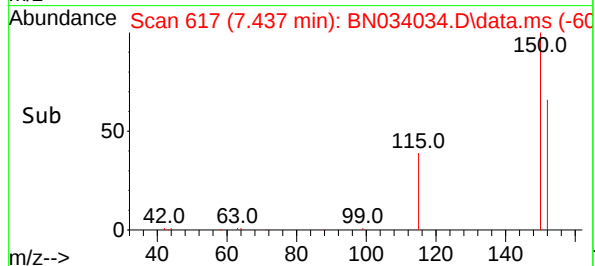
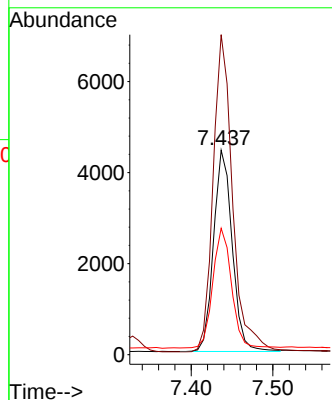
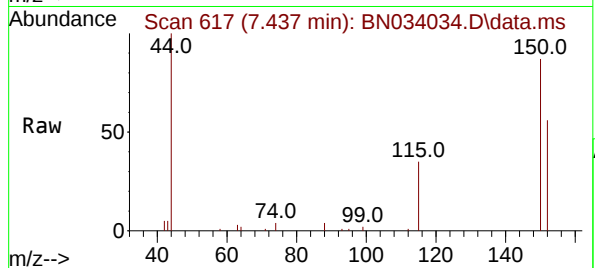




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

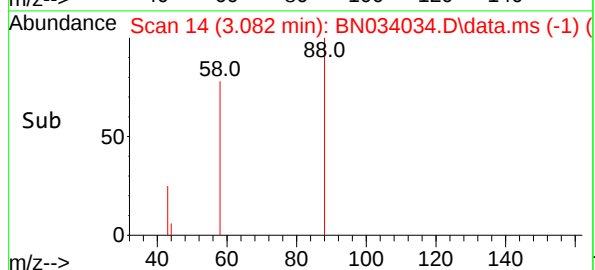
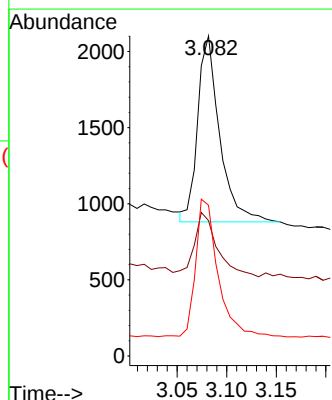
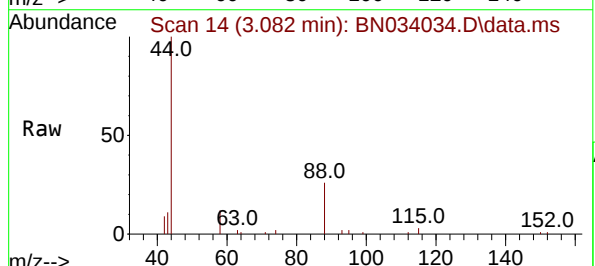
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

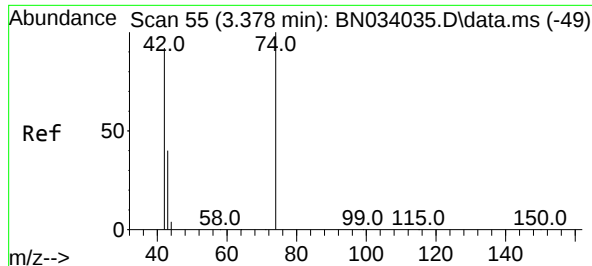
Tgt Ion:152 Resp: 7016
Ion Ratio Lower Upper
152 100
150 156.5 124.6 187.0
115 61.8 50.0 75.0



#2
1,4-Dioxane
Concen: 0.214 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 88 Resp: 1881
Ion Ratio Lower Upper
88 100
43 36.7 25.8 38.8
58 75.0 58.8 88.2

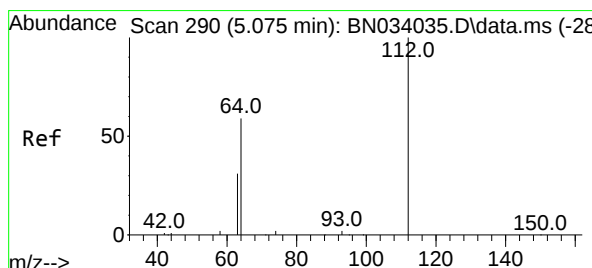
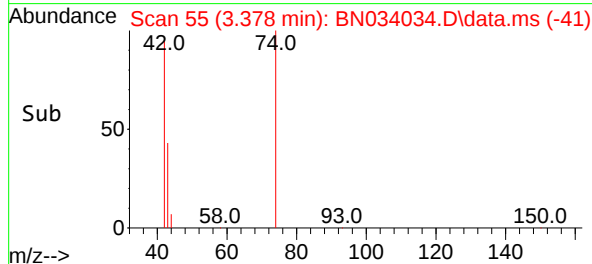
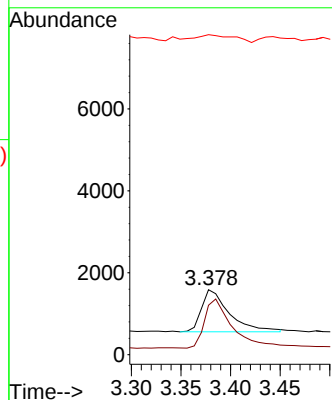
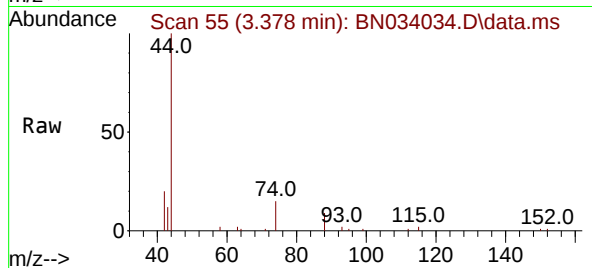




#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.378 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

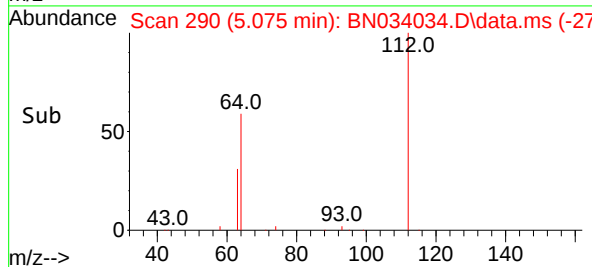
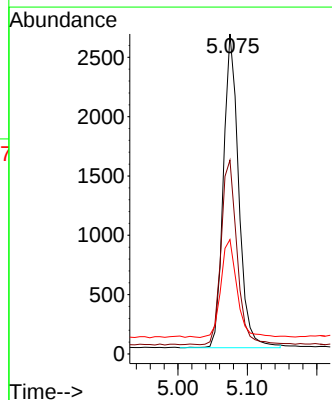
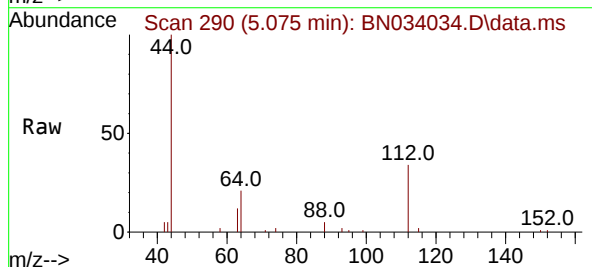
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

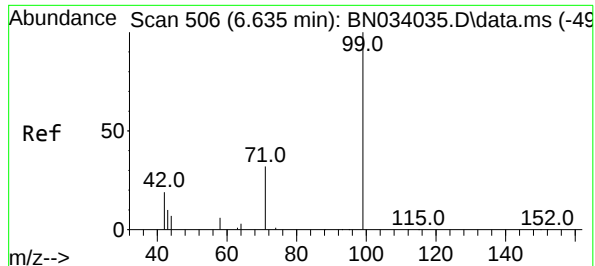
Tgt Ion: 42 Resp: 2003
Ion Ratio Lower Upper
42 100
74 116.4 94.6 142.0
44 23.9 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 112 Resp: 4058
Ion Ratio Lower Upper
112 100
64 60.9 48.6 72.8
63 32.8 25.6 38.4

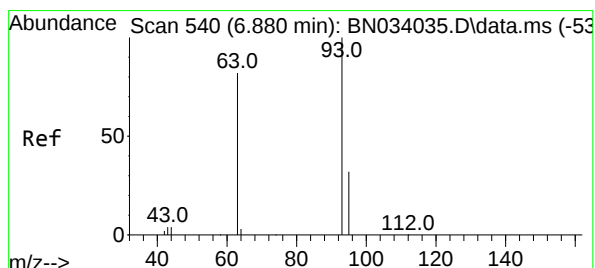
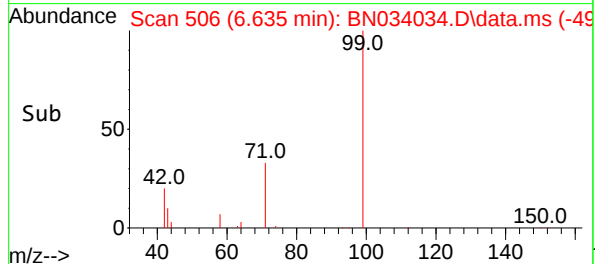
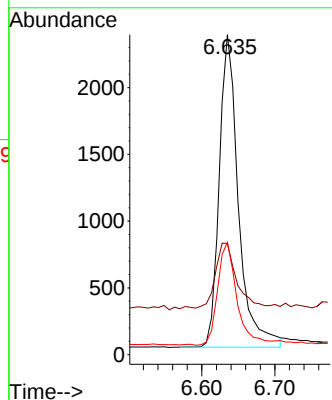
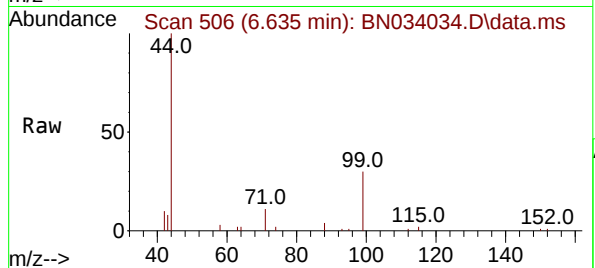




#5
Phenol-d6
Concen: 0.184 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

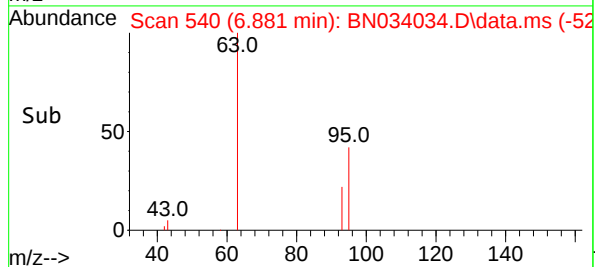
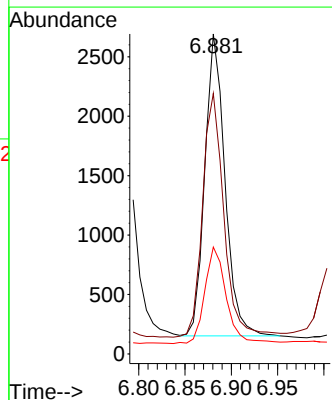
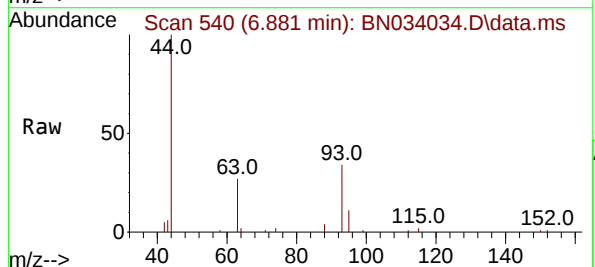
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

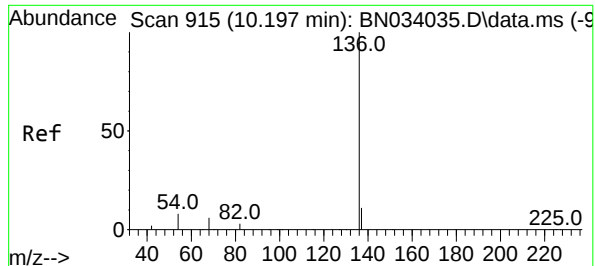
Tgt Ion: 99 Resp: 4263
Ion Ratio Lower Upper
99 100
42 23.6 17.8 26.8
71 33.2 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.188 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 93 Resp: 3843
Ion Ratio Lower Upper
93 100
63 85.8 67.3 100.9
95 34.1 26.8 40.2

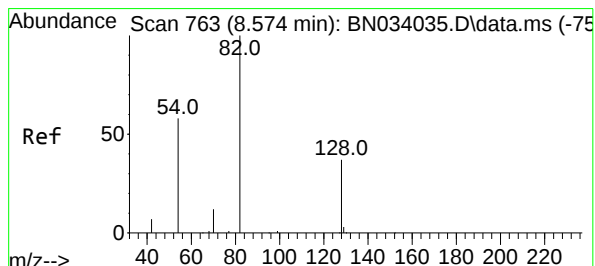
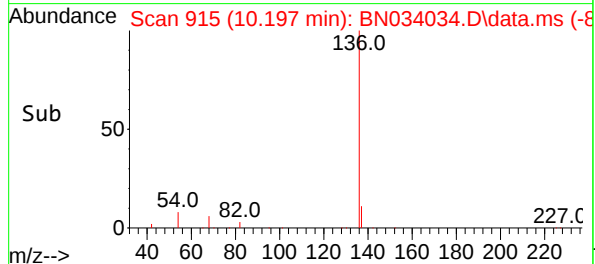
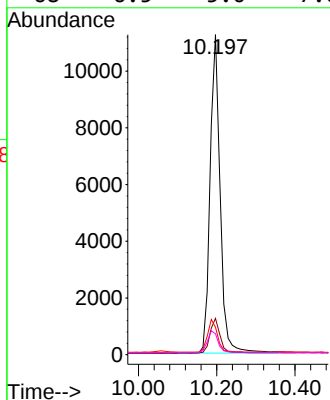
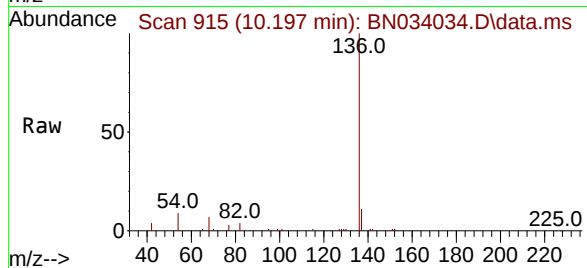




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

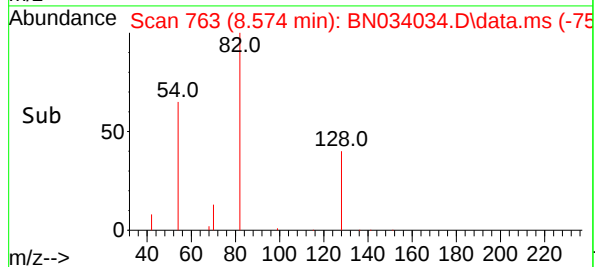
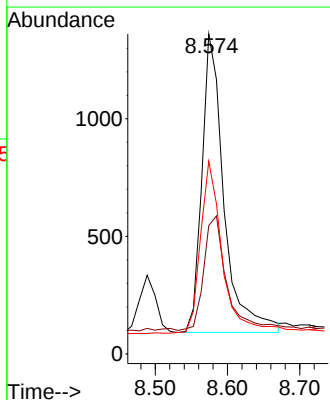
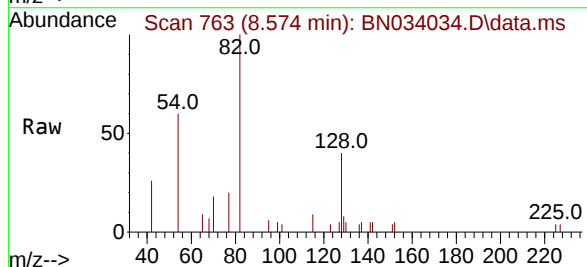
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

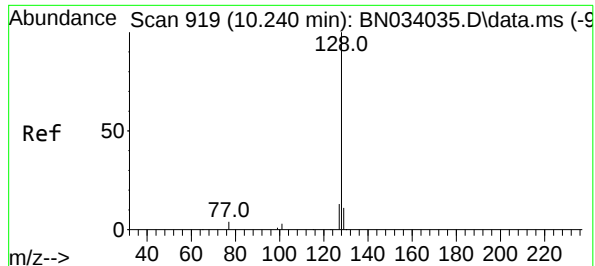
Tgt Ion:	136	Resp:	20105
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.0	13.6
54	8.6	6.8	10.2
68	6.5	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:	82	Resp:	2705
Ion Ratio	Lower	Upper	
82	100		
128	40.1	31.4	47.2
54	60.2	47.4	71.0





#9
Naphthalene

Concen: 0.193 ng

RT: 10.240 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

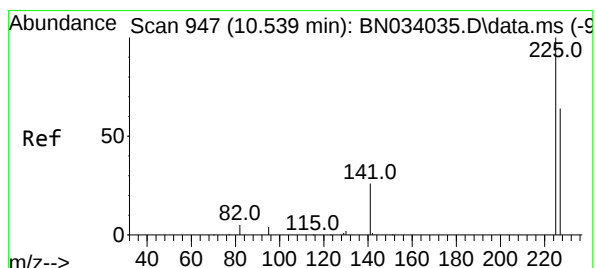
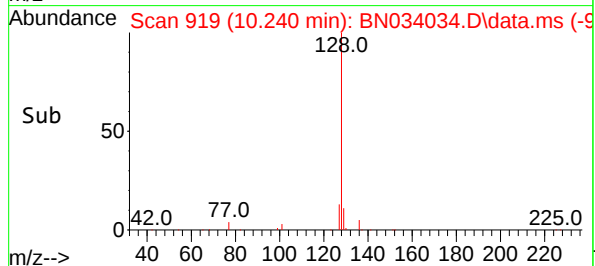
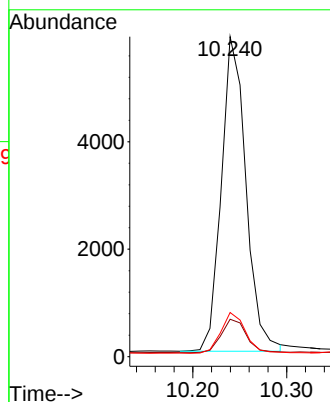
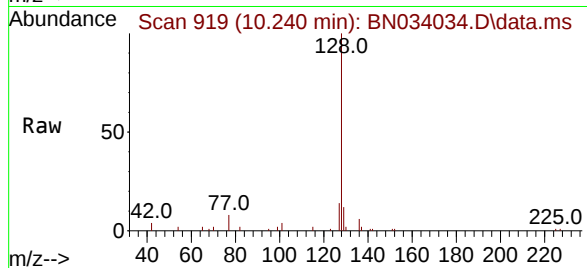
Tgt Ion:128 Resp: 10671

Ion Ratio Lower Upper

128 100

129 11.7 9.2 13.8

127 13.8 10.7 16.1



#10

Hexachlorobutadiene

Concen: 0.201 ng

RT: 10.539 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

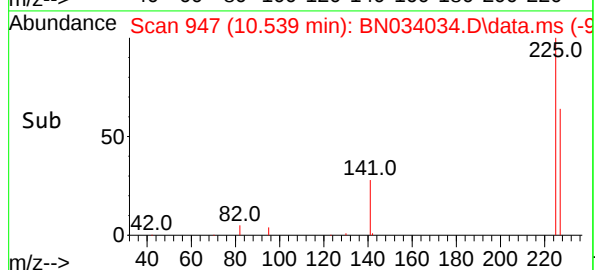
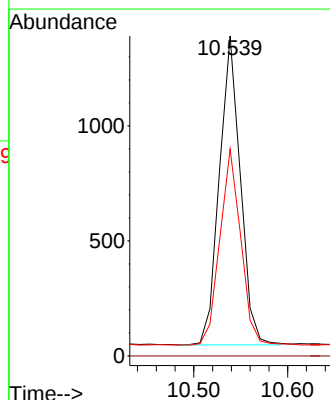
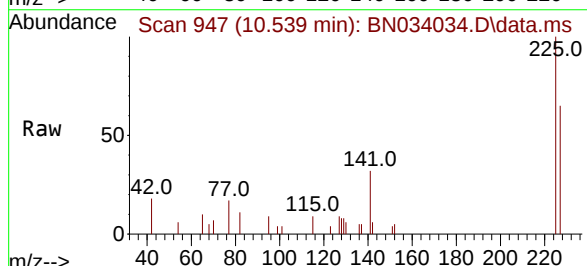
Tgt Ion:225 Resp: 2086

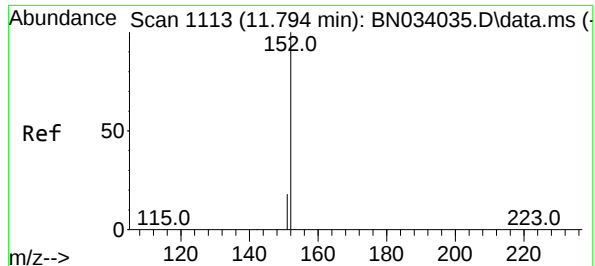
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.9 50.5 75.7

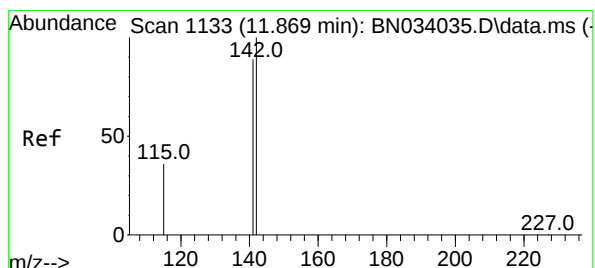
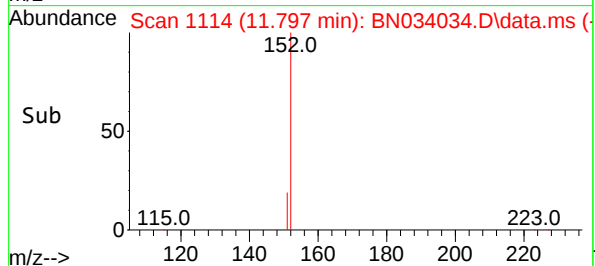
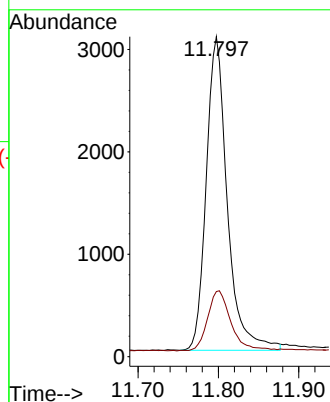
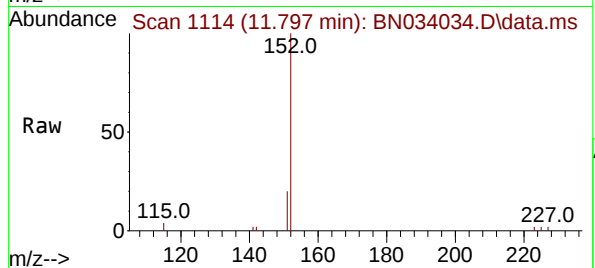




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.797 min Scan# 1114
Delta R.T. 0.004 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

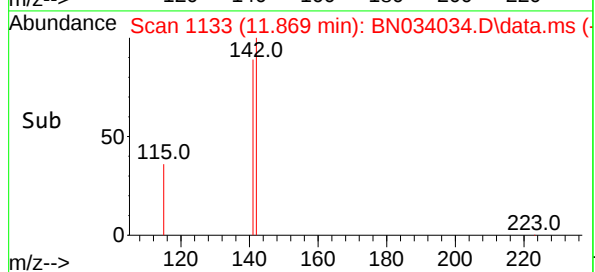
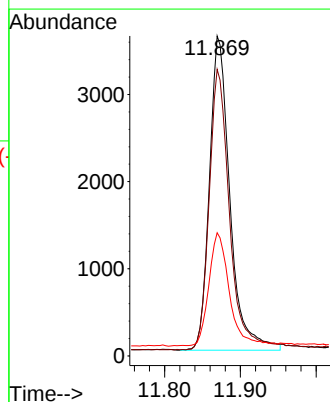
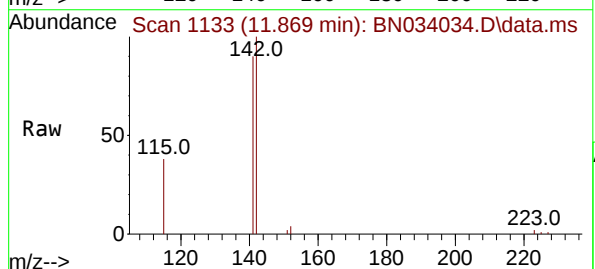
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

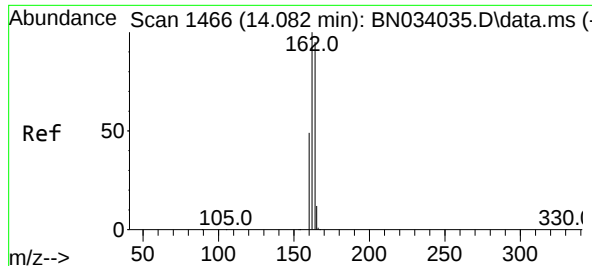
Tgt Ion:152 Resp: 5570
Ion Ratio Lower Upper
152 100
151 21.4 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:142 Resp: 6747
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 38.5 30.0 45.0

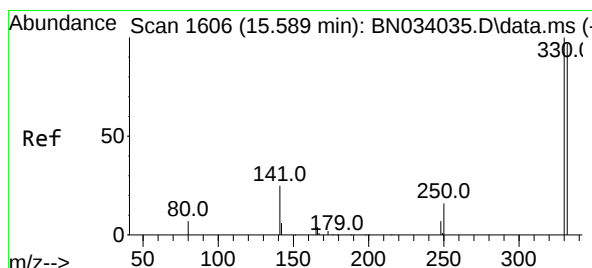
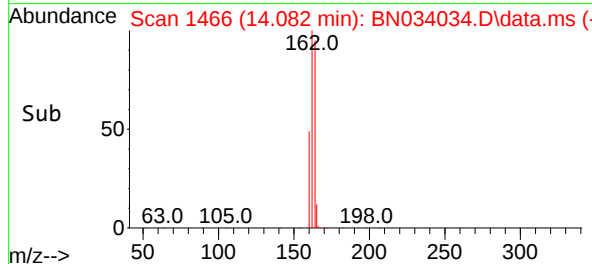
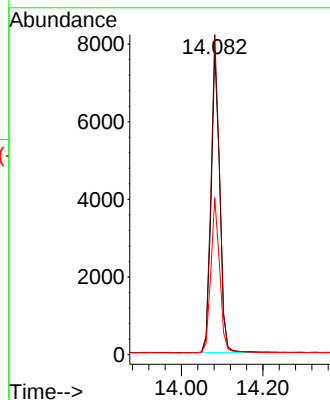
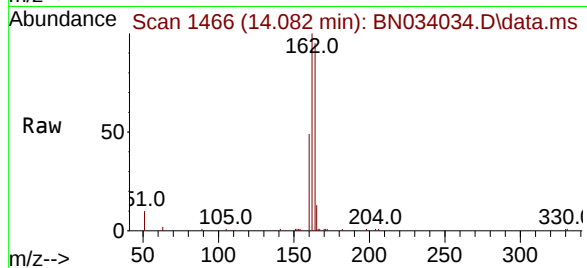




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

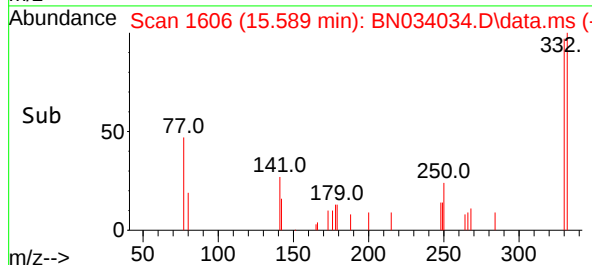
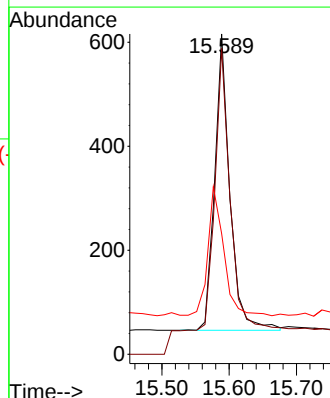
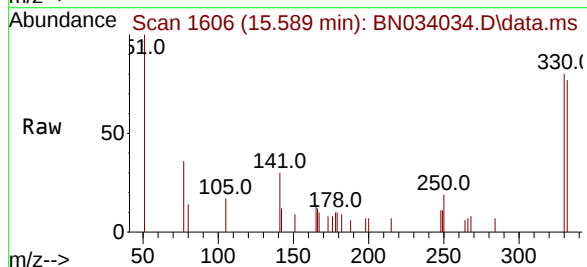
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

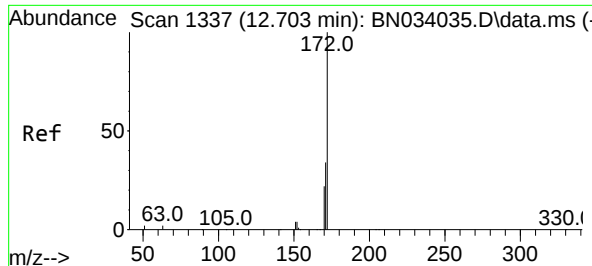
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.2
160	51.6	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.173 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.4	116.0
141	45.2	35.9	53.9





#15

2-Fluorobiphenyl

Concen: 0.194 ng

RT: 12.703 min Scan# 1337

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

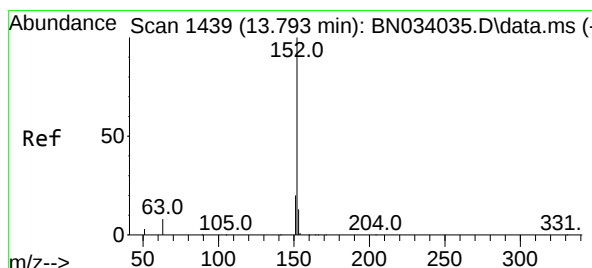
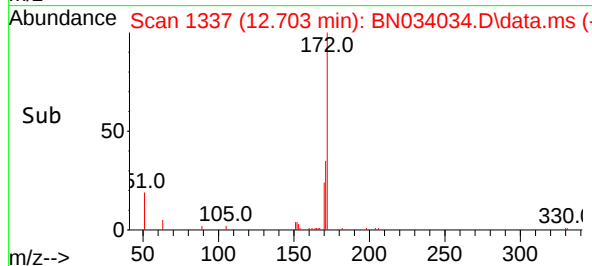
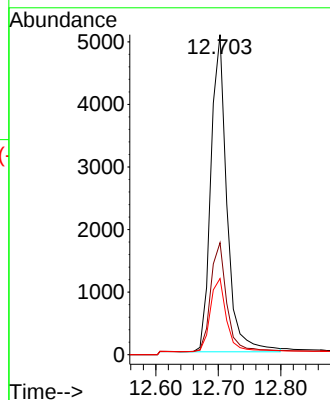
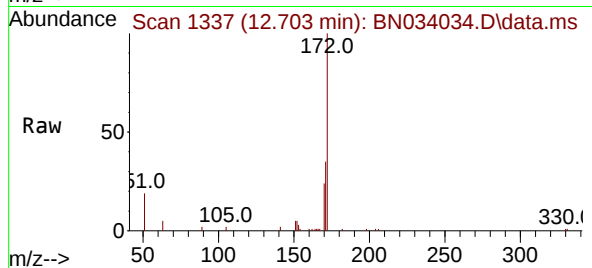
Tgt Ion:172 Resp: 9027

Ion Ratio Lower Upper

172 100

171 35.0 27.3 40.9

170 23.8 18.1 27.1



#16

Acenaphthylene

Concen: 0.177 ng

RT: 13.793 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

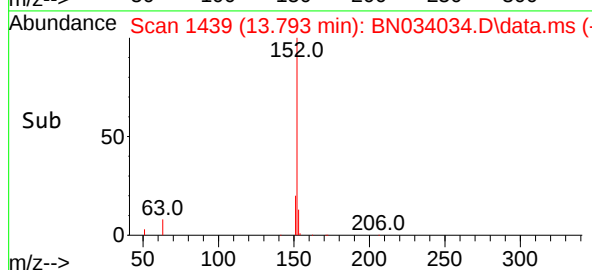
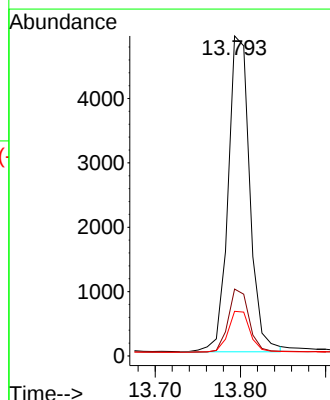
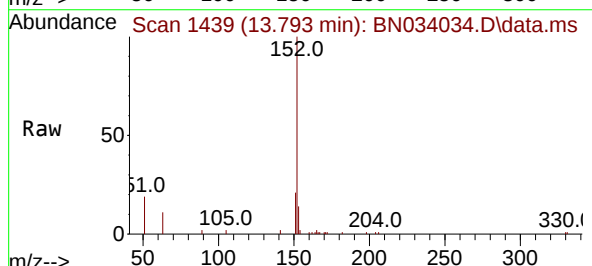
Tgt Ion:152 Resp: 8658

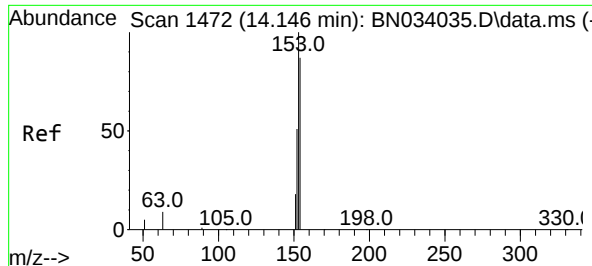
Ion Ratio Lower Upper

152 100

151 19.2 15.6 23.4

153 13.2 10.3 15.5

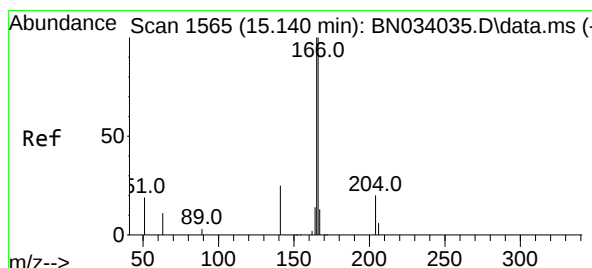
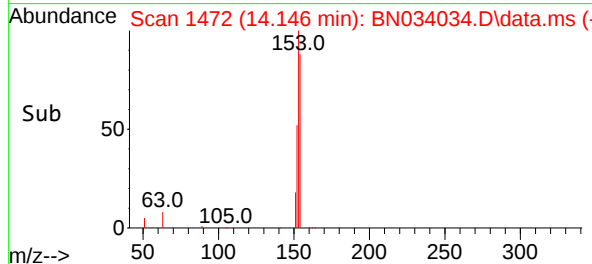
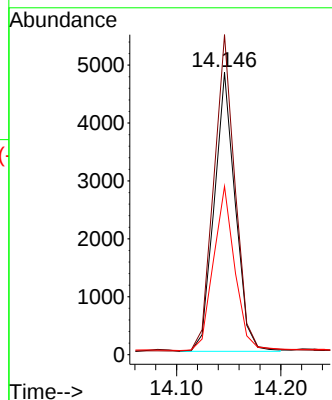
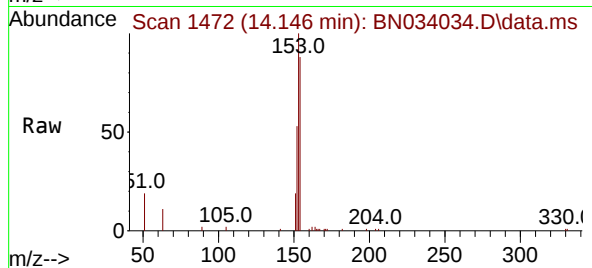




#17
Acenaphthene
Concen: 0.192 ng
RT: 14.146 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

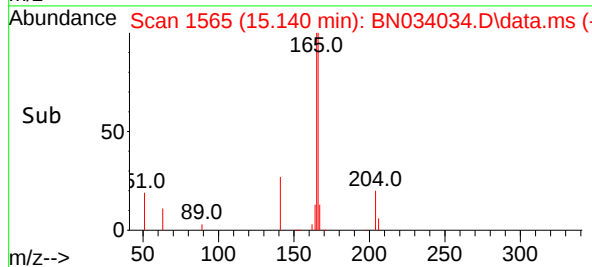
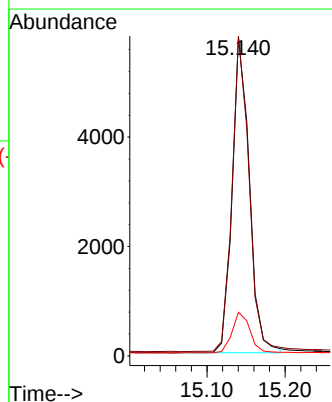
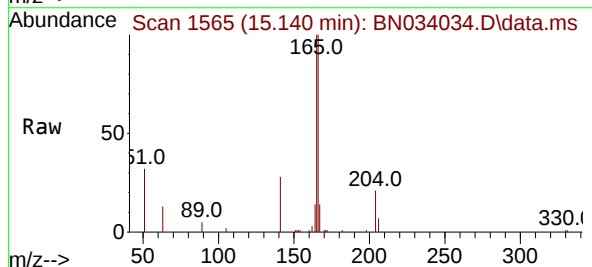
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

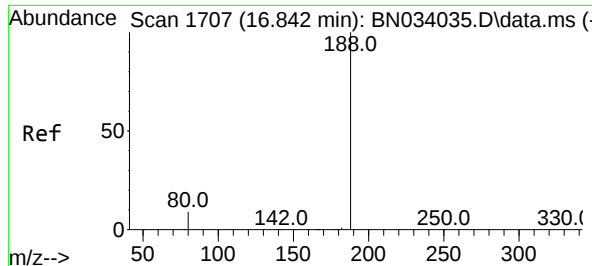
Tgt Ion:154 Resp: 6769
Ion Ratio Lower Upper
154 100
153 114.3 91.6 137.4
152 59.5 47.4 71.2



#18
Fluorene
Concen: 0.191 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:166 Resp: 8809
Ion Ratio Lower Upper
166 100
165 98.8 79.1 118.7
167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

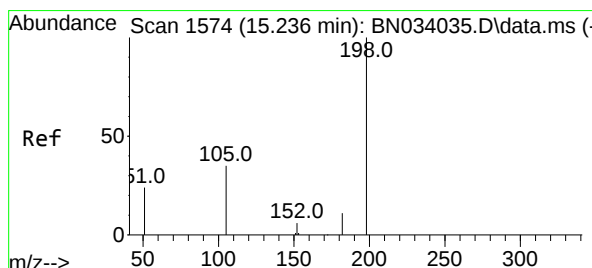
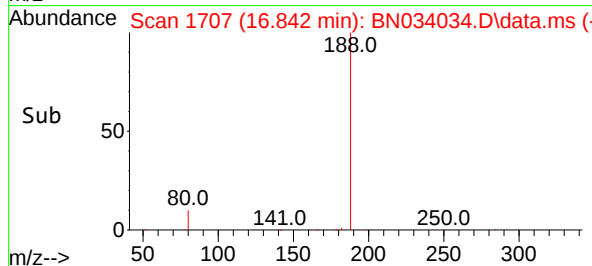
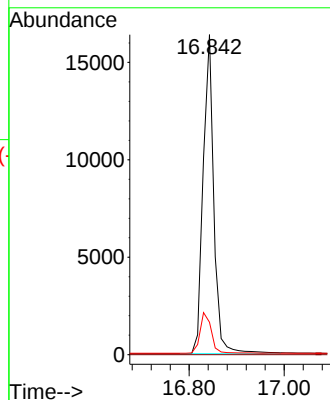
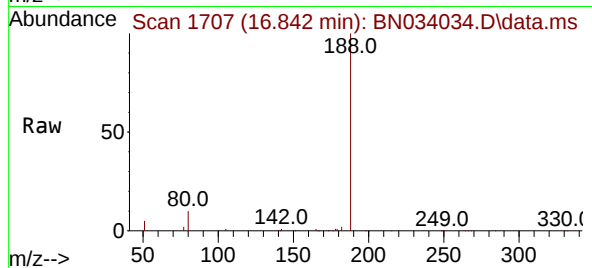
Tgt Ion:188 Resp: 25709

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 7.4 11.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.251 ng

RT: 15.236 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

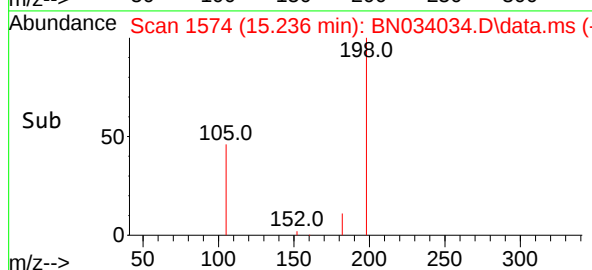
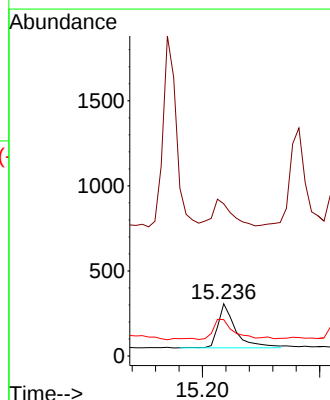
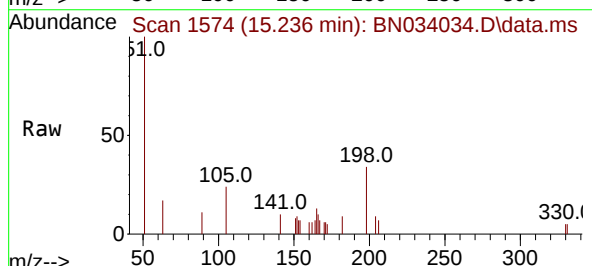
Tgt Ion:198 Resp: 541

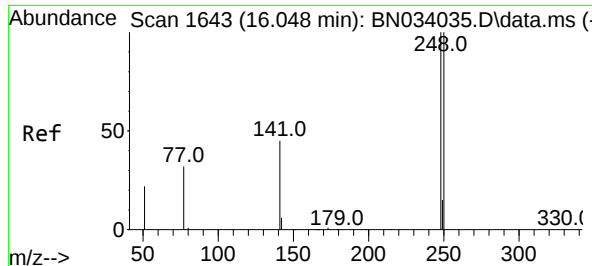
Ion Ratio Lower Upper

198 100

51 291.5 106.4 159.6#

105 69.7 38.5 57.7#

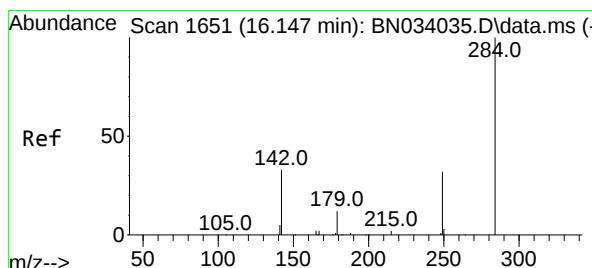
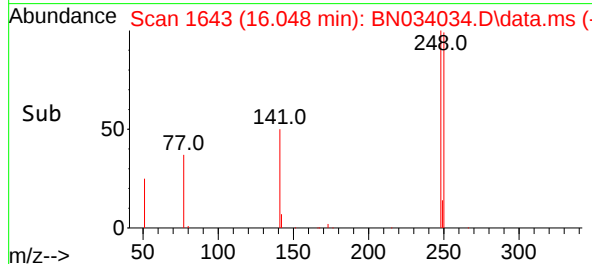
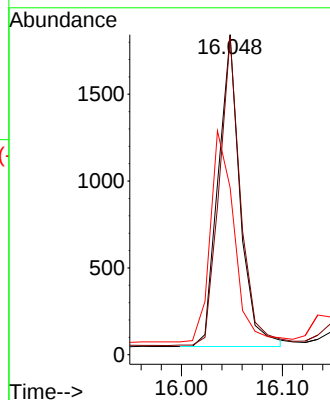
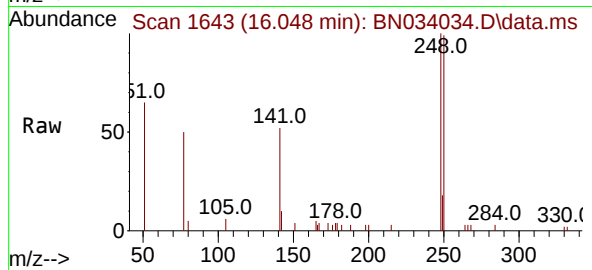




#21
4-Bromophenyl-phenylether
Concen: 0.187 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

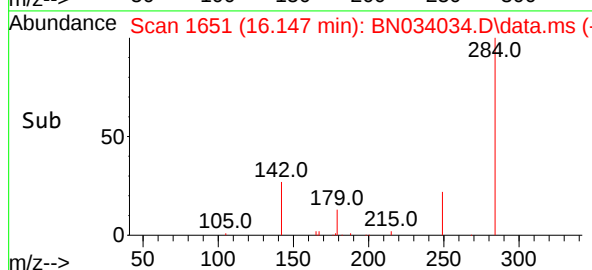
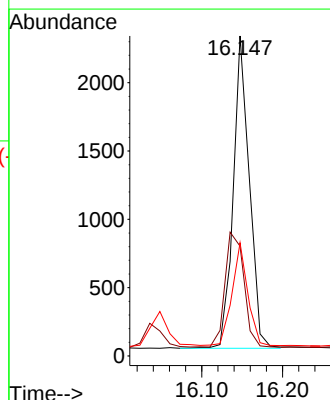
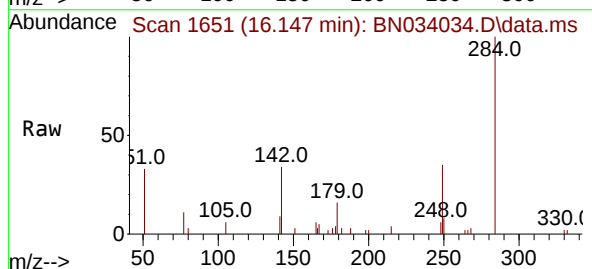
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

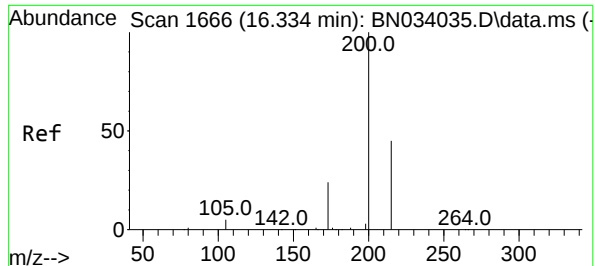
Tgt Ion:248 Resp: 2704
Ion Ratio Lower Upper
248 100
250 99.4 80.5 120.7
141 52.2 37.1 55.7



#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:284 Resp: 3160
Ion Ratio Lower Upper
284 100
142 43.3 34.5 51.7
249 32.2 25.8 38.6

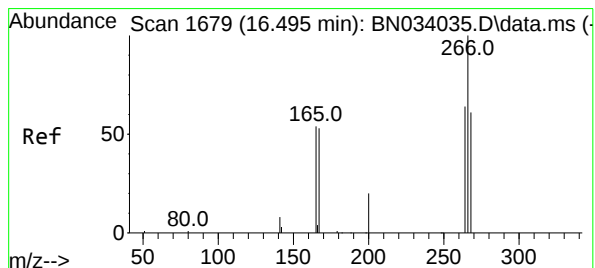
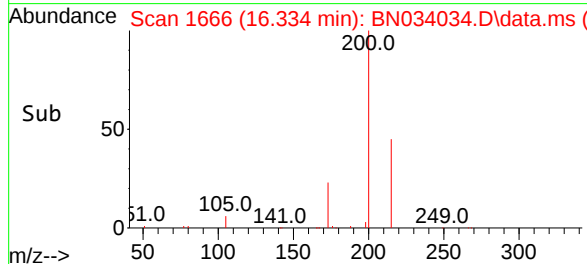
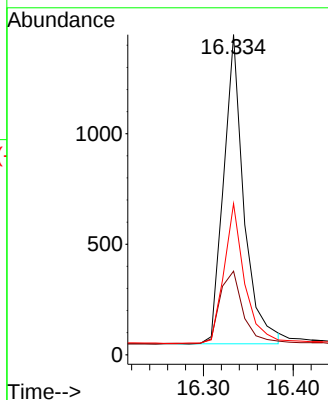
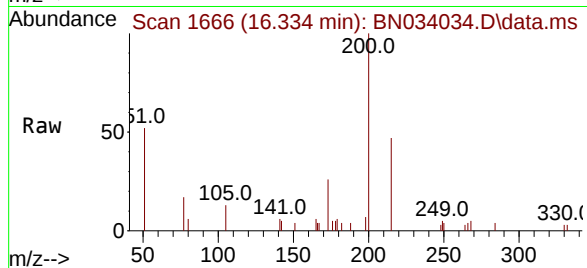




#23
Atrazine
Concen: 0.183 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

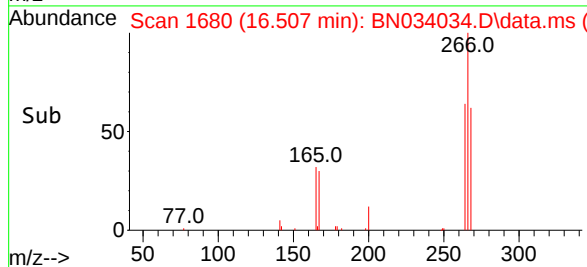
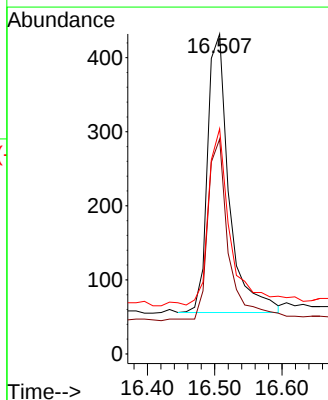
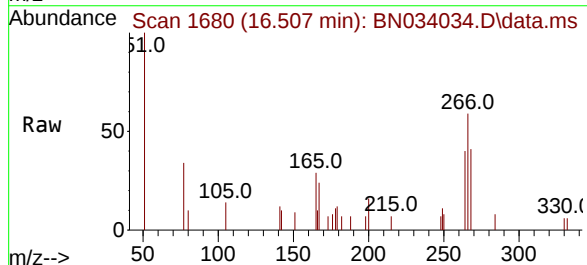
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

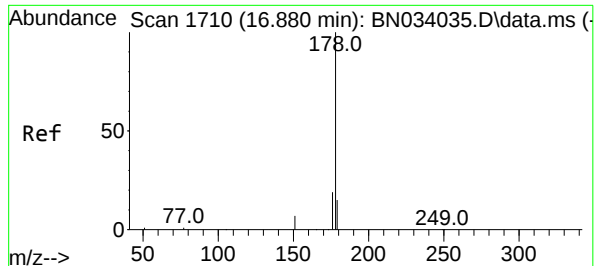
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.1	20.1	30.1
215	47.2	37.0	55.6



#24
Pentachlorophenol
Concen: 0.156 ng
RT: 16.507 min Scan# 1680
Delta R.T. 0.012 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.9	50.2	75.2
268	64.0	51.0	76.4

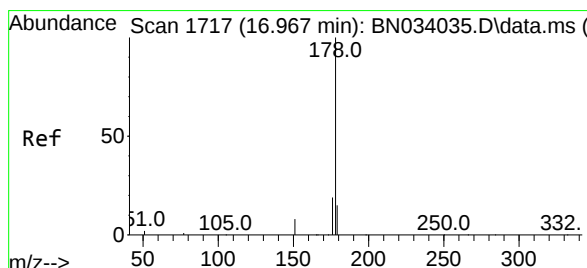
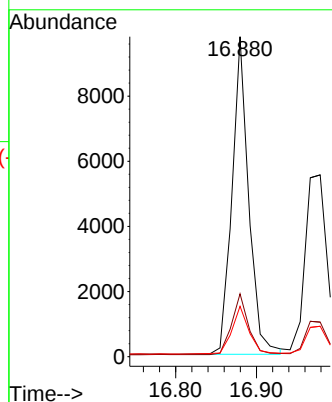
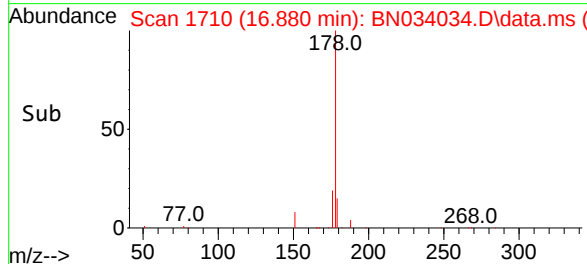
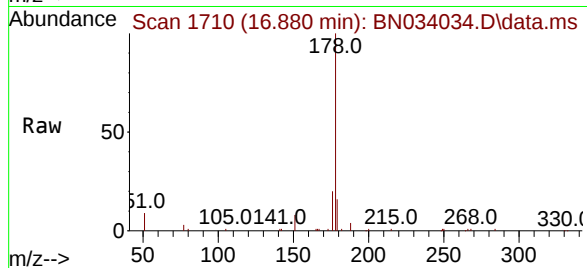




#25
Phenanthrene
Concen: 0.190 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

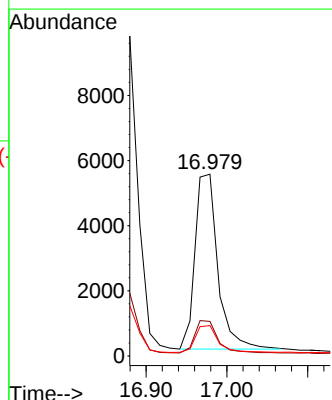
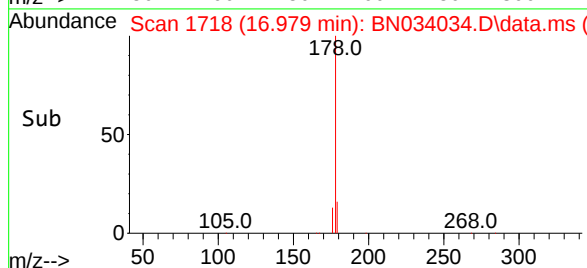
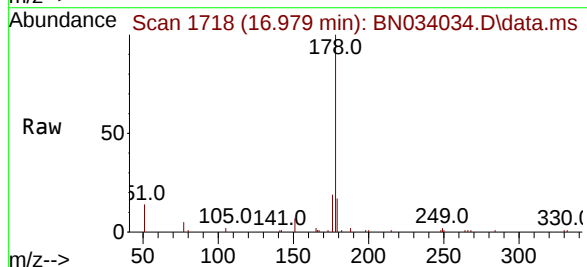
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

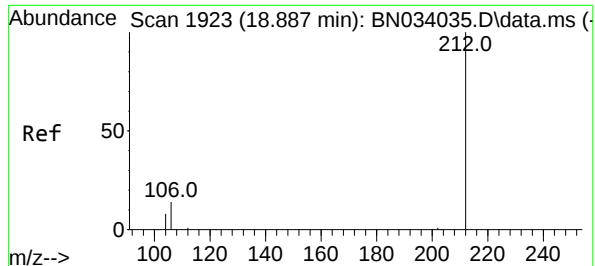
Tgt Ion:178 Resp: 14012
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.3 12.1 18.1



#26
Anthracene
Concen: 0.176 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.012 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:178 Resp: 10619
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 15.0 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 18.887 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

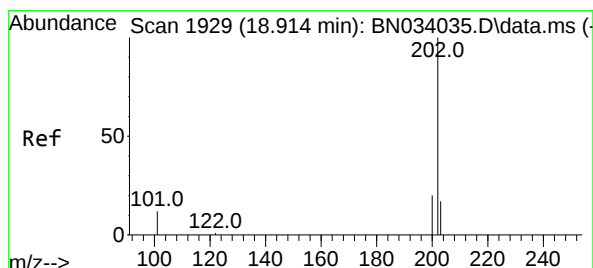
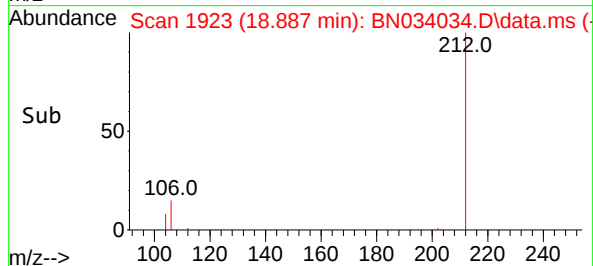
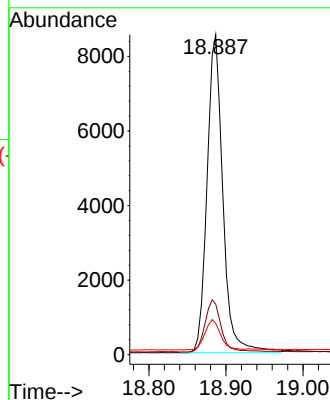
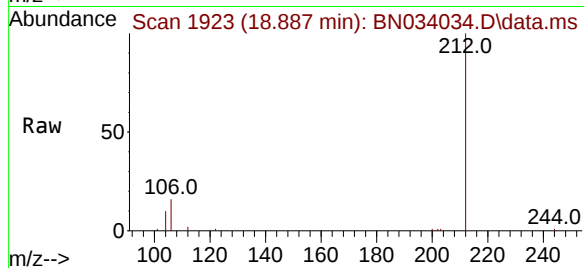
Tgt Ion:212 Resp: 12178

Ion Ratio Lower Upper

212 100

106 16.8 13.4 20.2

104 9.4 7.8 11.6



#28

Fluoranthene

Concen: 0.184 ng

RT: 18.915 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

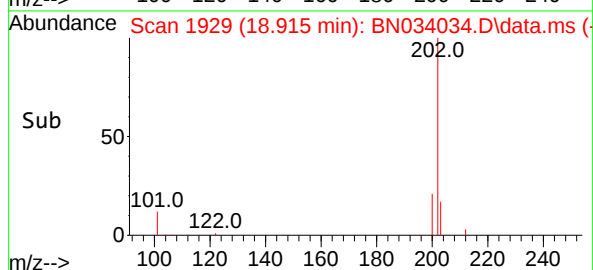
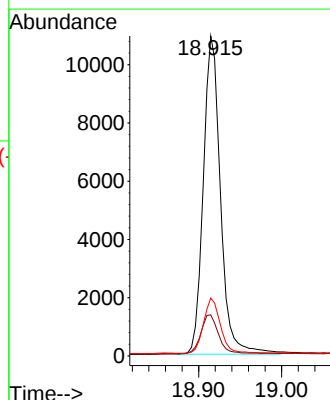
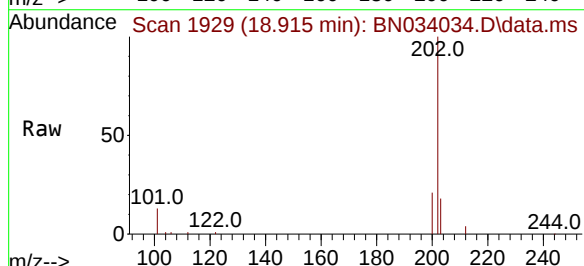
Tgt Ion:202 Resp: 15759

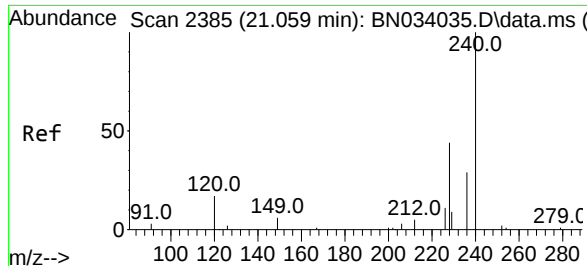
Ion Ratio Lower Upper

202 100

101 13.2 10.1 15.1

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

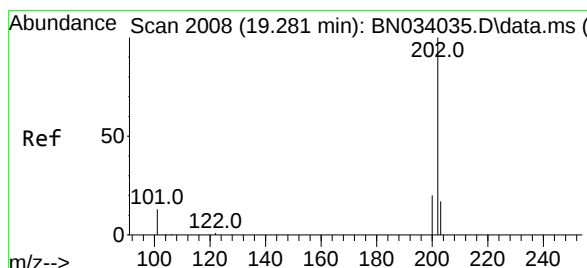
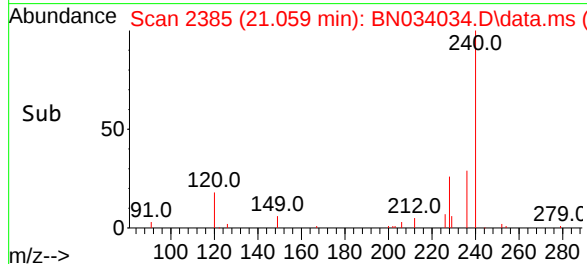
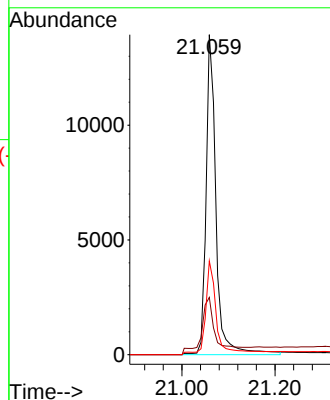
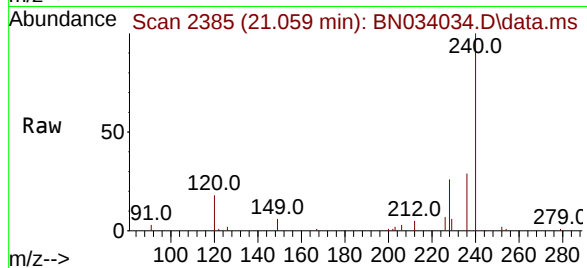
Tgt Ion:240 Resp: 19925

Ion Ratio Lower Upper

240 100

120 17.9 13.5 20.3

236 29.3 23.4 35.0



#30

Pyrene

Concen: 0.194 ng

RT: 19.282 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

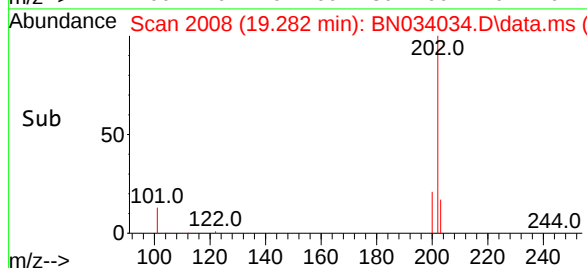
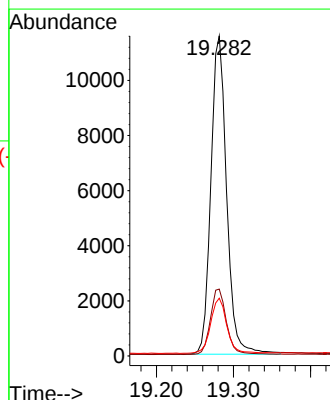
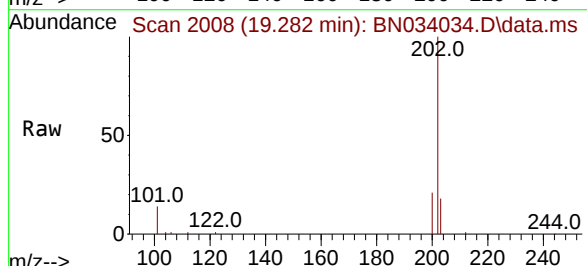
Tgt Ion:202 Resp: 16347

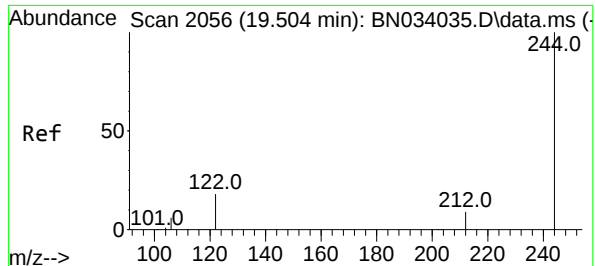
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.0 14.3 21.5

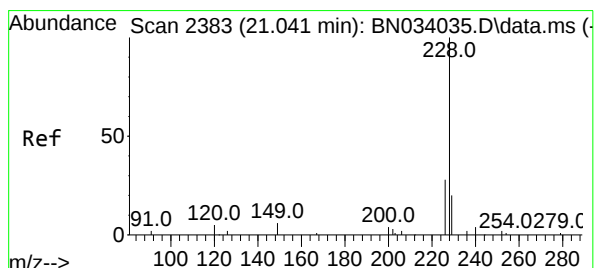
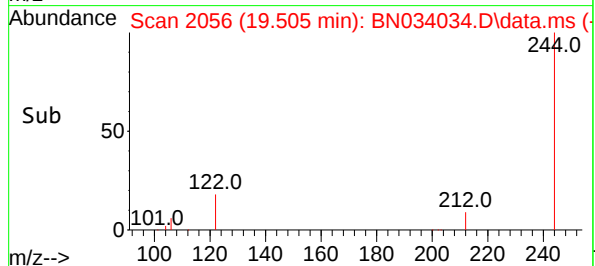
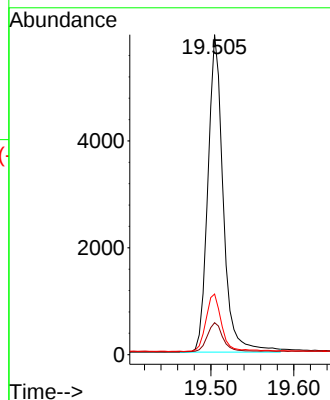
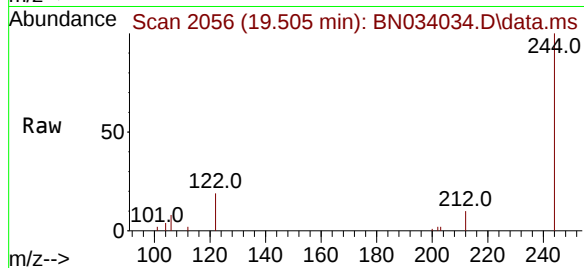




#31
Terphenyl-d14
Concen: 0.192 ng
RT: 19.505 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

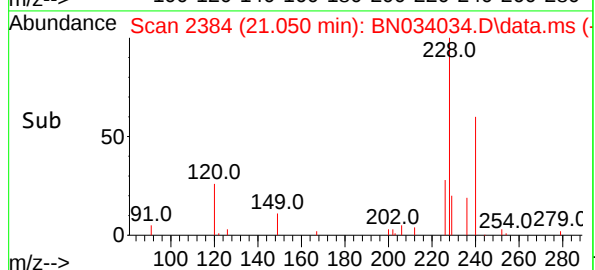
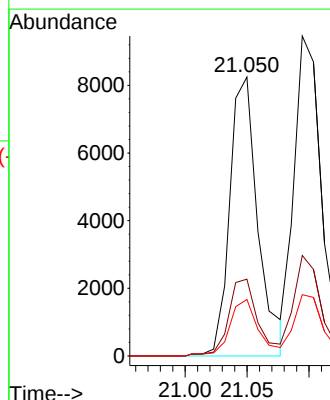
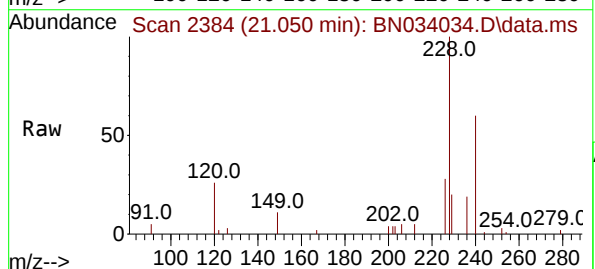
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

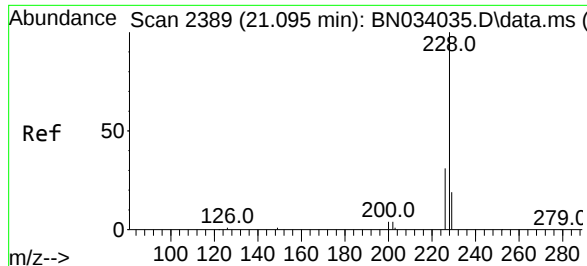
Tgt Ion:244 Resp: 7642
Ion Ratio Lower Upper
244 100
212 10.0 7.8 11.6
122 19.0 14.8 22.2



#32
Benzo(a)anthracene
Concen: 0.188 ng
RT: 21.050 min Scan# 2384
Delta R.T. 0.009 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:228 Resp: 11821
Ion Ratio Lower Upper
228 100
226 27.5 22.3 33.5
229 20.2 15.7 23.5





#33

Chrysene

Concen: 0.187 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

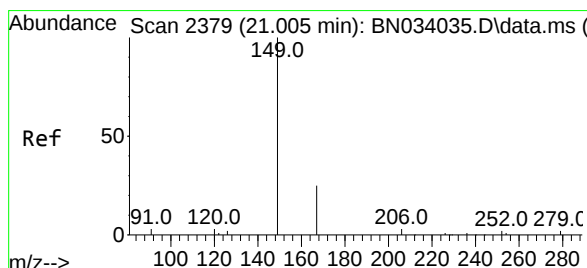
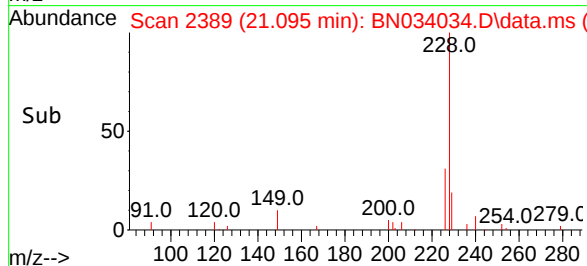
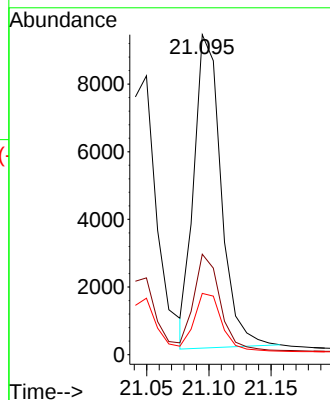
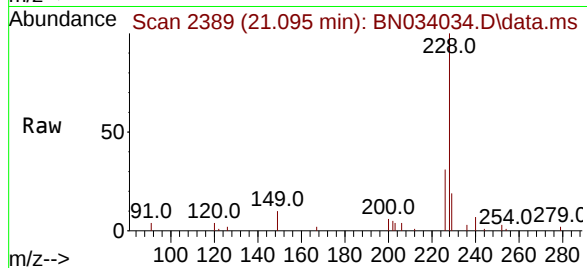
Tgt Ion:228 Resp: 14045

Ion Ratio Lower Upper

228 100

226 31.4 24.6 37.0

229 19.2 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.238 ng

RT: 21.005 min Scan# 2379

Delta R.T. 0.000 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

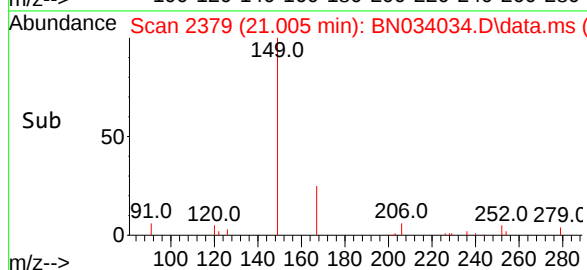
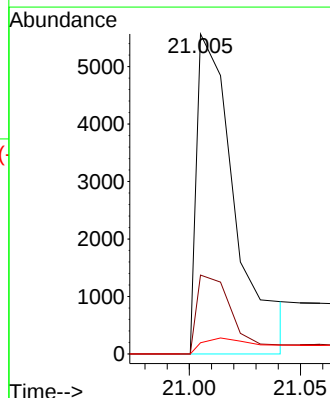
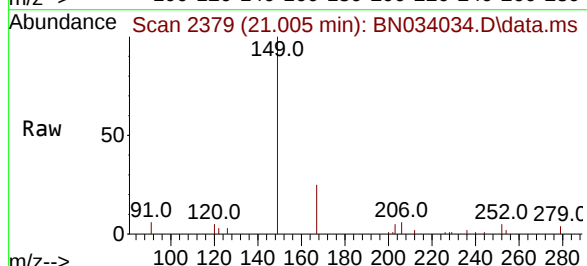
Tgt Ion:149 Resp: 6255

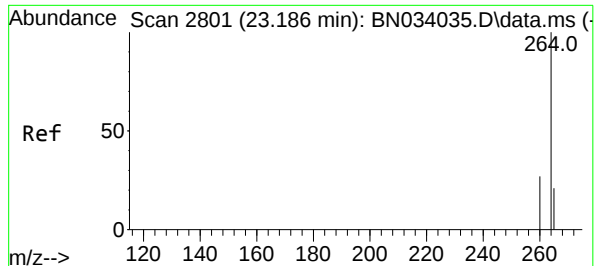
Ion Ratio Lower Upper

149 100

167 23.9 19.9 29.9

279 7.3 4.6 6.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.189 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

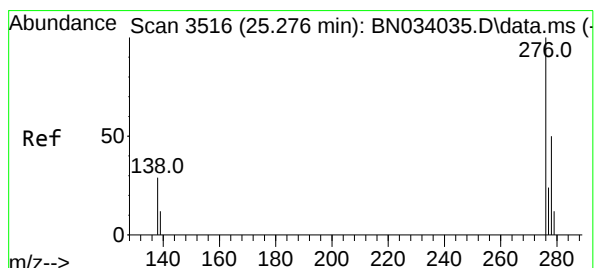
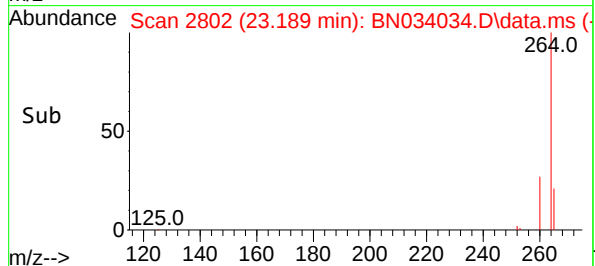
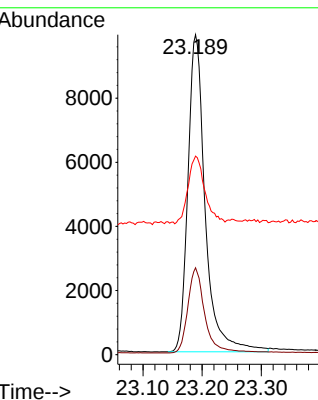
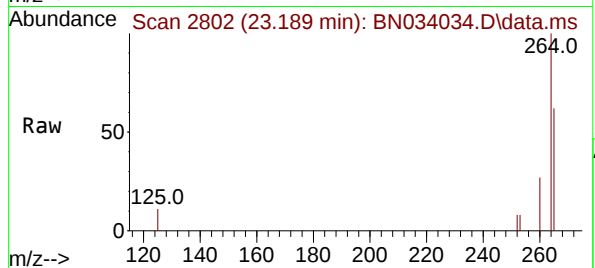
Tgt Ion:264 Resp: 20082

Ion Ratio Lower Upper

264 100

260 27.2 21.7 32.5

265 62.1 52.1 78.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.180 ng

RT: 25.279 min Scan# 3517

Delta R.T. 0.003 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

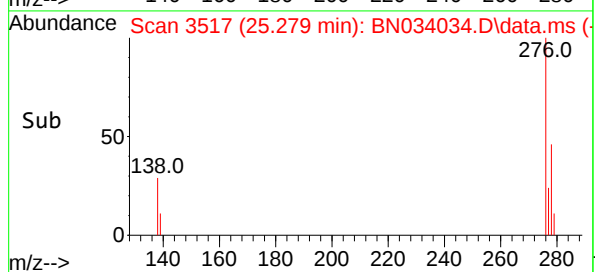
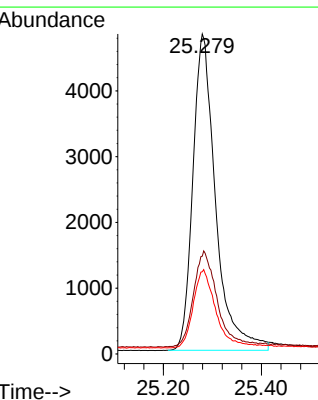
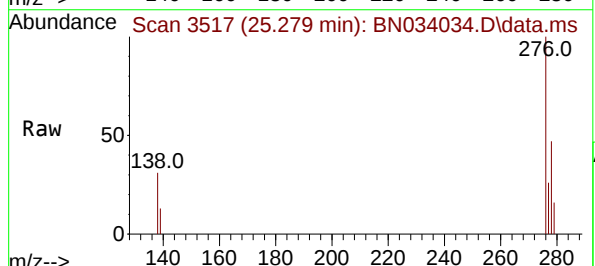
Tgt Ion:276 Resp: 15490

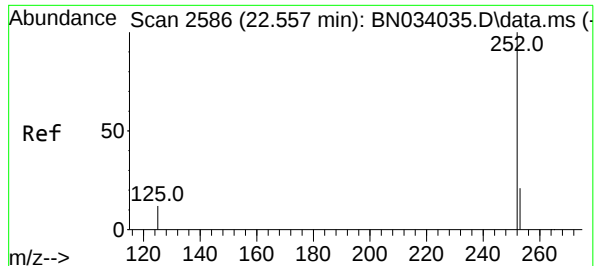
Ion Ratio Lower Upper

276 100

138 31.5 25.9 38.9

277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.563 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

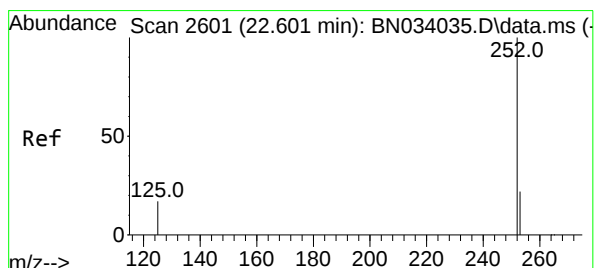
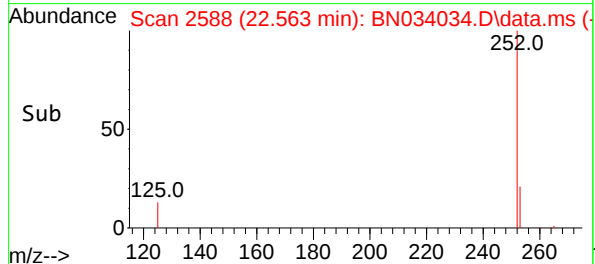
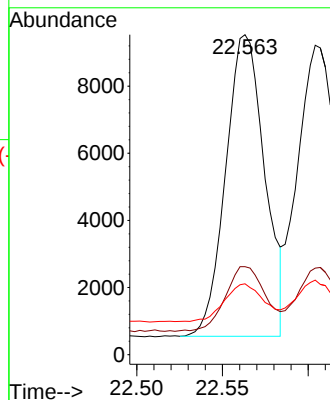
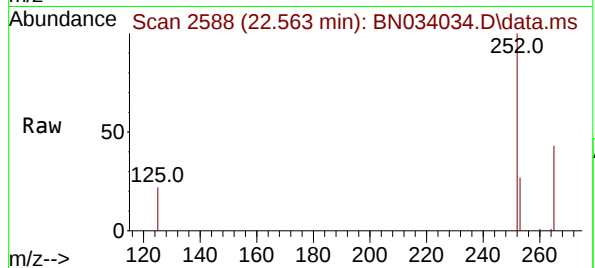
Tgt Ion:252 Resp: 14213

Ion Ratio Lower Upper

252 100

253 27.5 19.6 29.4

125 22.2 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 0.187 ng

RT: 22.604 min Scan# 2602

Delta R.T. 0.003 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

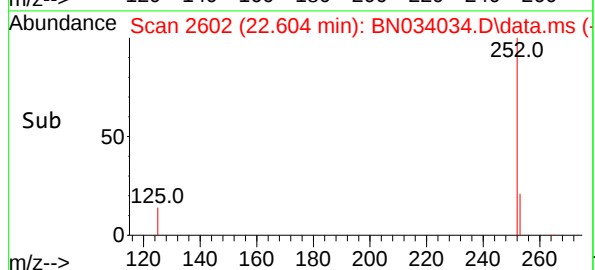
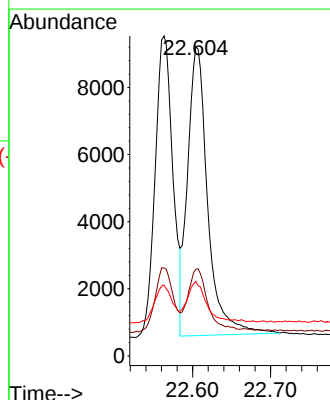
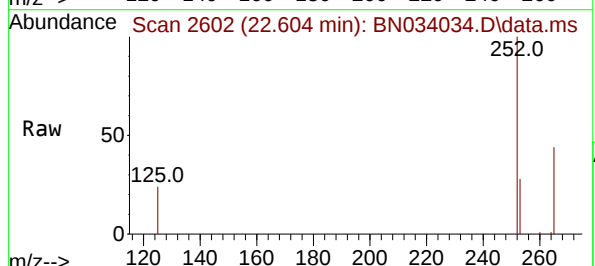
Tgt Ion:252 Resp: 15443

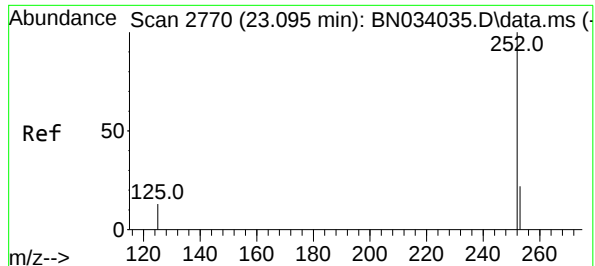
Ion Ratio Lower Upper

252 100

253 28.0 20.1 30.1

125 24.1 16.8 25.2





#39

Benzo(a)pyrene

Concen: 0.176 ng

RT: 23.098 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

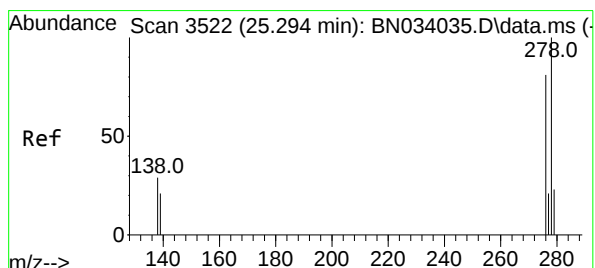
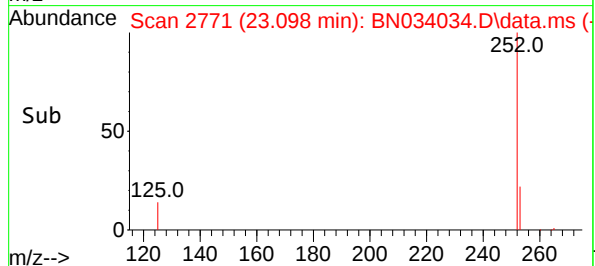
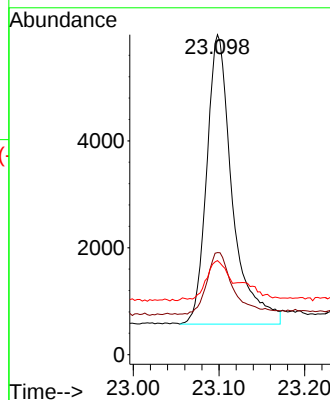
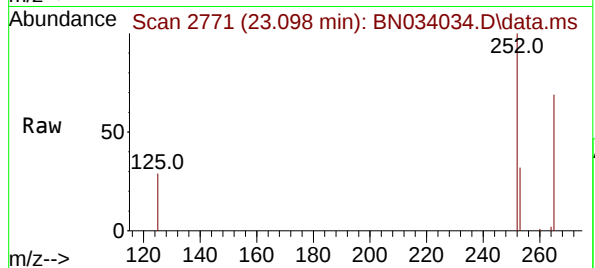
Tgt Ion:252 Resp: 11266

Ion Ratio Lower Upper

252 100

253 31.9 21.8 32.8

125 29.4 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.178 ng

RT: 25.297 min Scan# 3523

Delta R.T. 0.003 min

Lab File: BN034034.D

Acq: 18 Sep 2024 12:29

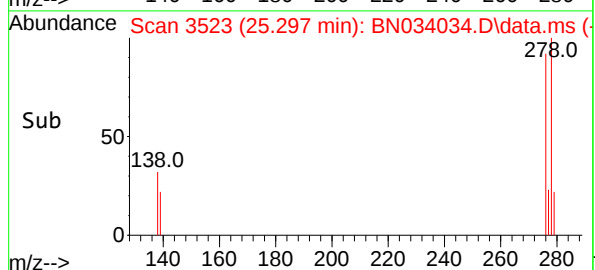
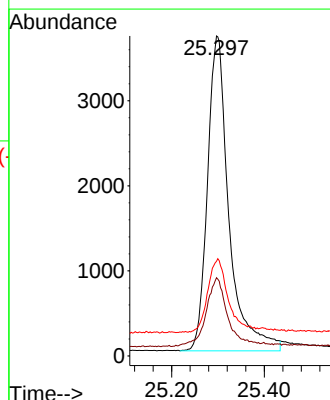
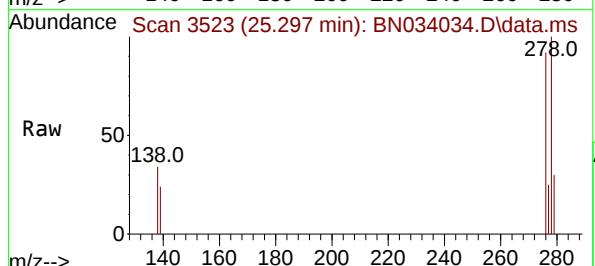
Tgt Ion:278 Resp: 11898

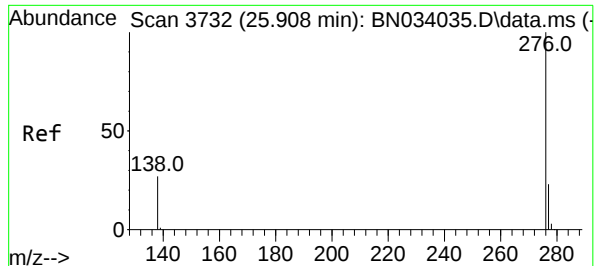
Ion Ratio Lower Upper

278 100

139 24.4 17.8 26.8

279 29.6 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.188 ng

RT: 25.914 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN034034.D

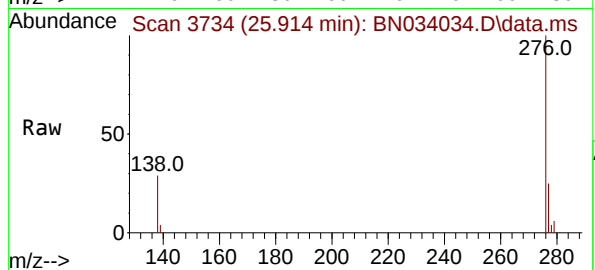
Acq: 18 Sep 2024 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



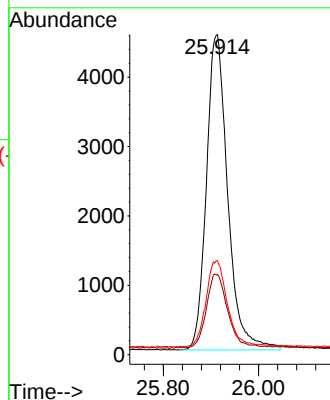
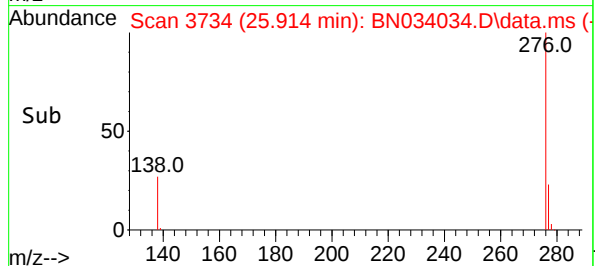
Tgt Ion:276 Resp: 14133

Ion Ratio Lower Upper

276 100

277 25.0 19.3 28.9

138 29.2 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034035.D
 Acq On : 18 Sep 2024 13:05
 Operator : JU/RC
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 18 16:14:30 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

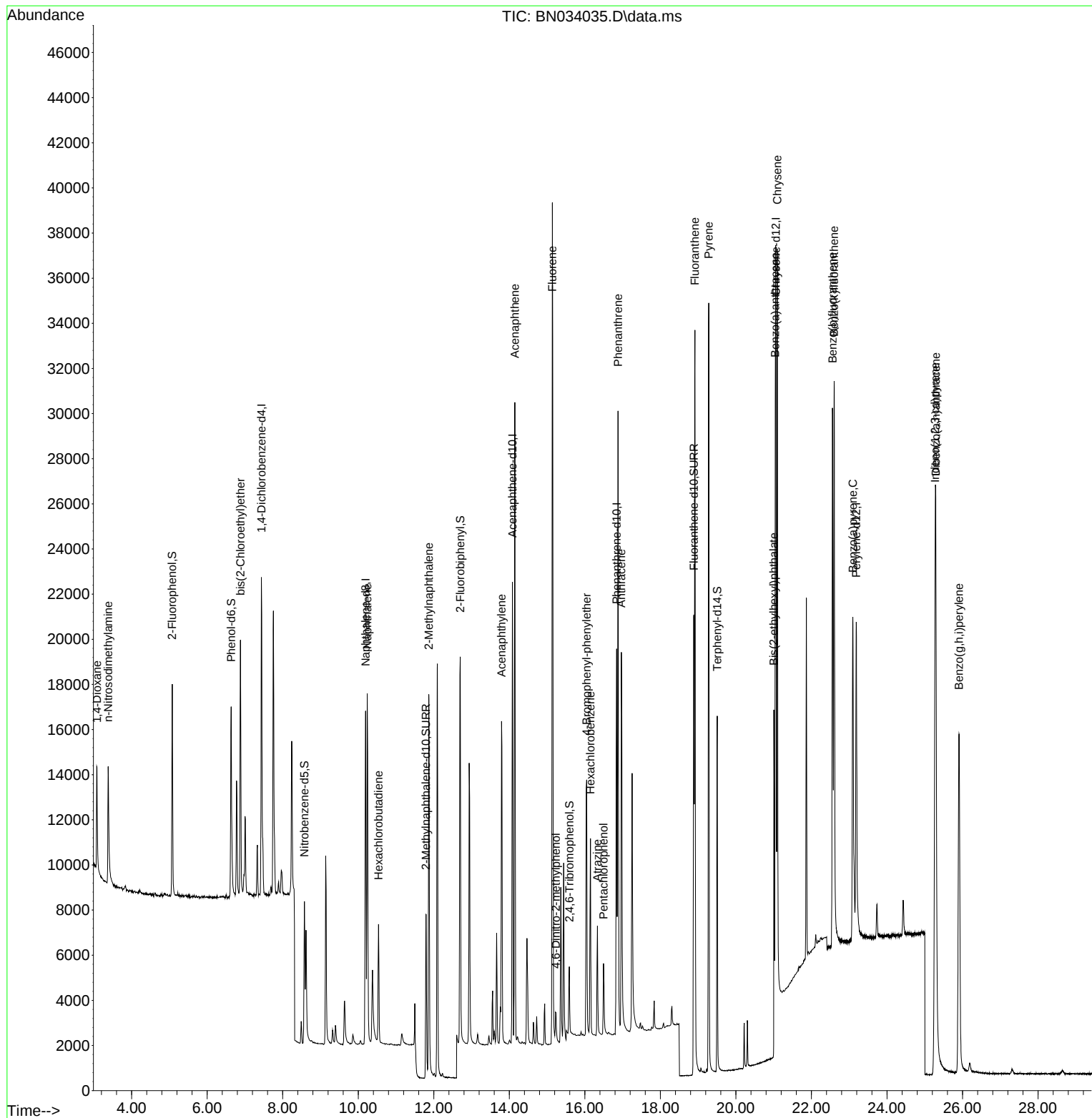
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	6856	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	19411	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	11055	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	24256	0.400	ng	0.00
29) Chrysene-d12	21.059	240	18497	0.400	ng	0.00
35) Perylene-d12	23.186	264	19466	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	7330	0.377	ng	0.00
5) Phenol-d6	6.635	99	8150	0.360	ng	0.00
8) Nitrobenzene-d5	8.574	82	5434	0.366	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	10871	0.379	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	1711	0.342	ng	0.00
15) 2-Fluorobiphenyl	12.703	172	17403	0.387	ng	0.00
27) Fluoranthene-d10	18.887	212	23105	0.378	ng	0.00
31) Terphenyl-d14	19.504	244	14682	0.397	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.082	88	3448	0.402	ng	97
3) n-Nitrosodimethylamine	3.378	42	3772	0.387	ng	99
6) bis(2-Chloroethyl)ether	6.880	93	7581	0.379	ng	100
9) Naphthalene	10.240	128	20506	0.385	ng	100
10) Hexachlorobutadiene	10.539	225	3968	0.395	ng	# 100
12) 2-Methylnaphthalene	11.869	142	13168	0.380	ng	100
16) Acenaphthylene	13.793	152	16994	0.359	ng	100
17) Acenaphthene	14.146	154	12987	0.383	ng	100
18) Fluorene	15.140	166	16895	0.379	ng	100
20) 4,6-Dinitro-2-methylph...	15.236	198	1127	0.388	ng	100
21) 4-Bromophenyl-phenylether	16.048	248	5173	0.379	ng	100
22) Hexachlorobenzene	16.147	284	6010	0.393	ng	100
23) Atrazine	16.334	200	4123	0.365	ng	100
24) Pentachlorophenol	16.495	266	1695	0.335	ng	99
25) Phenanthrene	16.880	178	26847	0.385	ng	100
26) Anthracene	16.967	178	20459	0.360	ng	99
28) Fluoranthene	18.914	202	30513	0.378	ng	100
30) Pyrene	19.281	202	31284	0.401	ng	100
32) Benzo(a)anthracene	21.041	228	21782	0.372	ng	100
33) Chrysene	21.095	228	28280	0.405	ng	100
34) Bis(2-ethylhexyl)phtha...	21.005	149	10166	0.417	ng	100
36) Indeno(1,2,3-cd)pyrene	25.276	276	34361	0.412	ng	100
37) Benzo(b)fluoranthene	22.557	252	28282	0.371	ng	100
38) Benzo(k)fluoranthene	22.601	252	31658	0.395	ng	100
39) Benzo(a)pyrene	23.095	252	23302	0.375	ng	100
40) Dibenzo(a,h)anthracene	25.294	278	26318	0.406	ng	100
41) Benzo(g,h,i)perylene	25.908	276	29289	0.402	ng	100

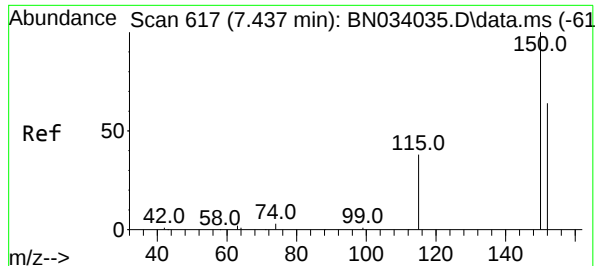
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034035.D
Acq On : 18 Sep 2024 13:05
Operator : JU/RC
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 18 16:14:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

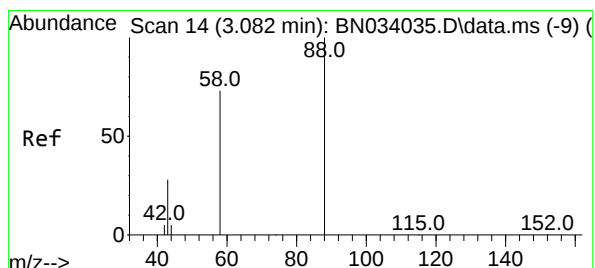
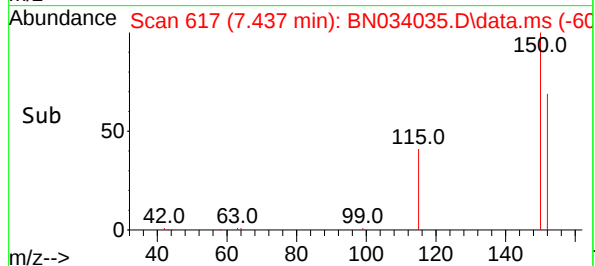
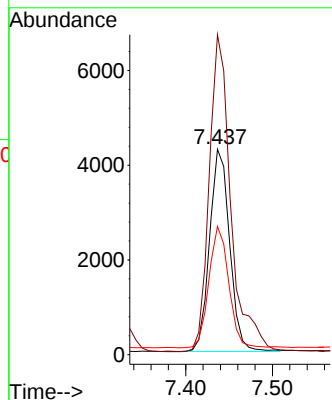
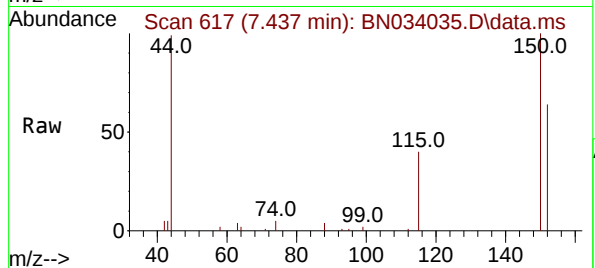




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

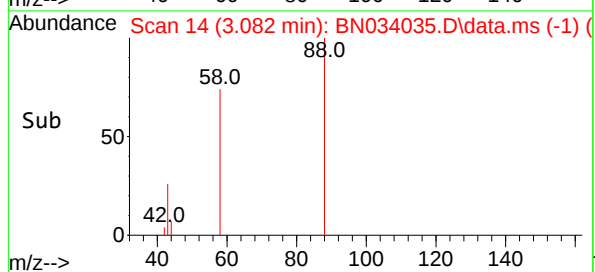
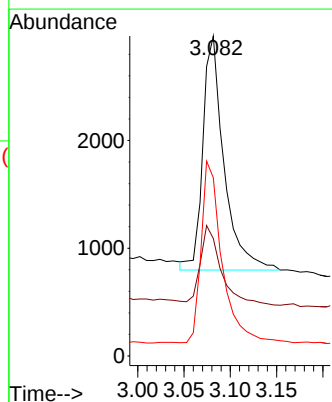
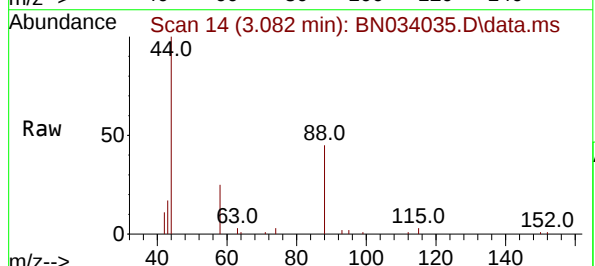
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

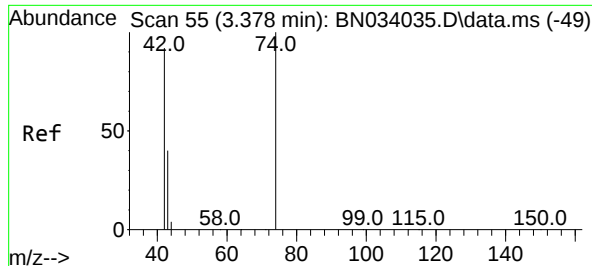
Tgt Ion:152 Resp: 6856
Ion Ratio Lower Upper
152 100
150 155.8 124.6 187.0
115 62.5 50.0 75.0



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 88 Resp: 3448
Ion Ratio Lower Upper
88 100
43 33.6 25.8 38.8
58 76.2 58.8 88.2

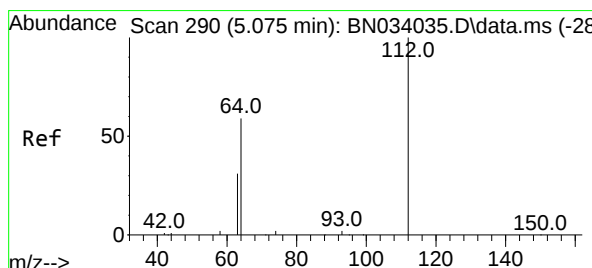
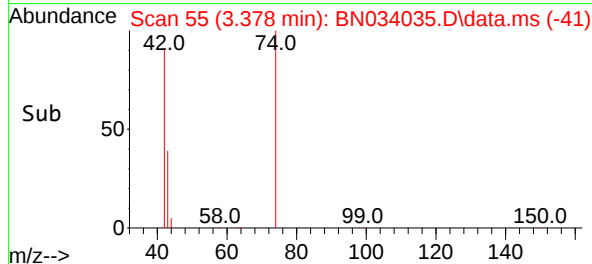
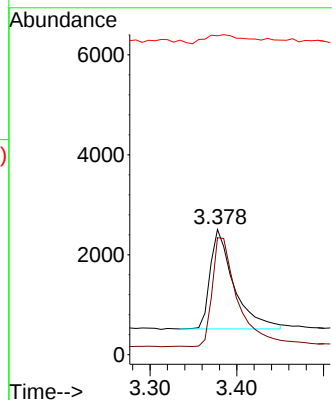
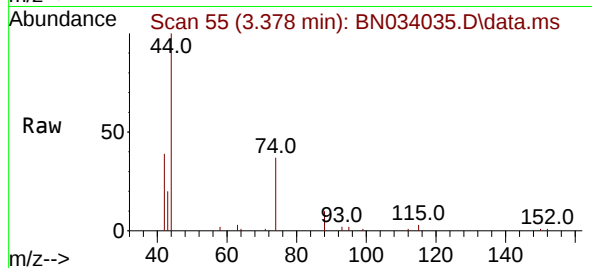




#3
n-Nitrosodimethylamine
Concen: 0.387 ng
RT: 3.378 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

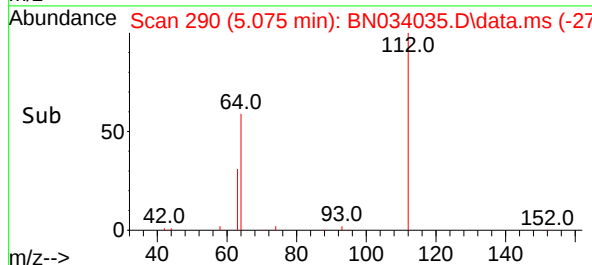
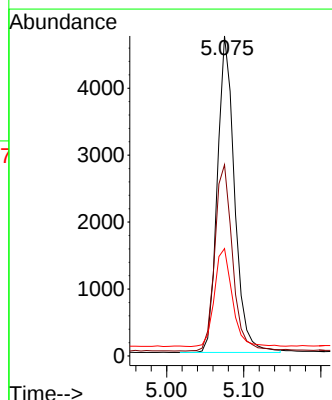
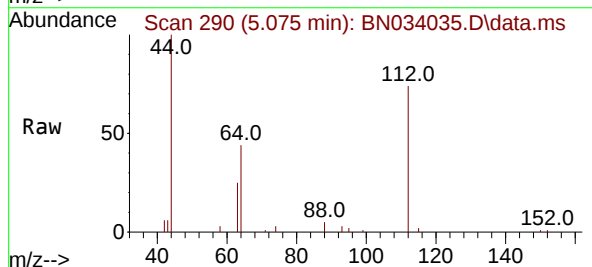
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

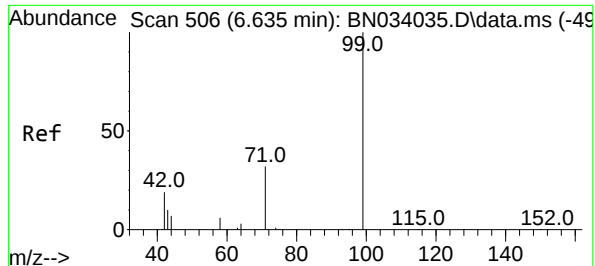
Tgt Ion: 42 Resp: 3772
Ion Ratio Lower Upper
42 100
74 116.6 94.6 142.0
44 15.7 12.4 18.6



#4
2-Fluorophenol
Concen: 0.377 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 112 Resp: 7330
Ion Ratio Lower Upper
112 100
64 60.8 48.6 72.8
63 32.0 25.6 38.4

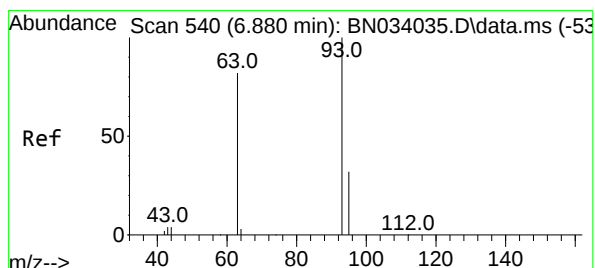
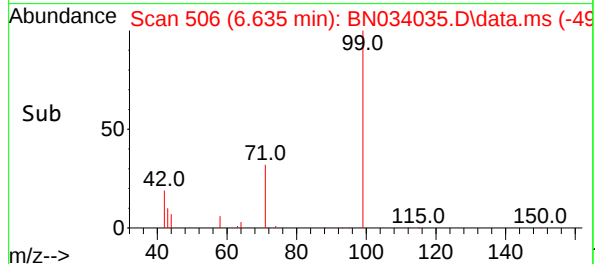
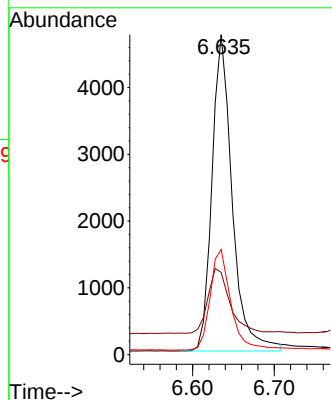
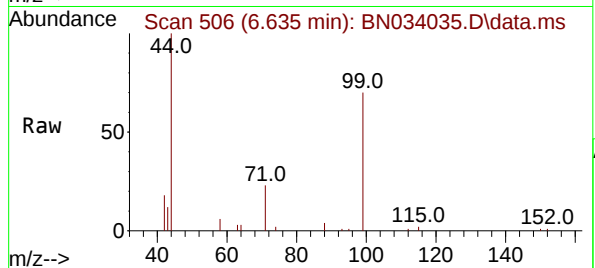




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

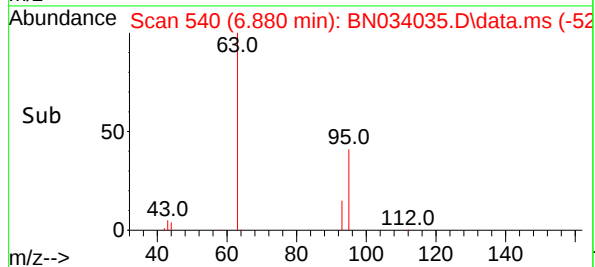
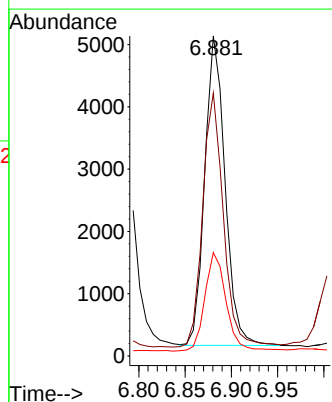
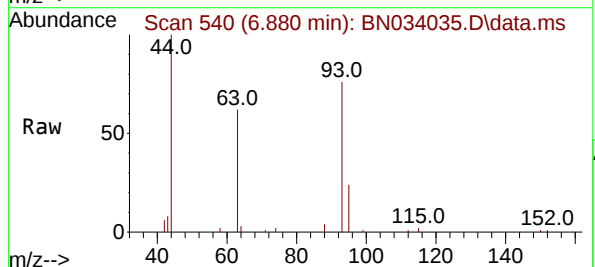
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

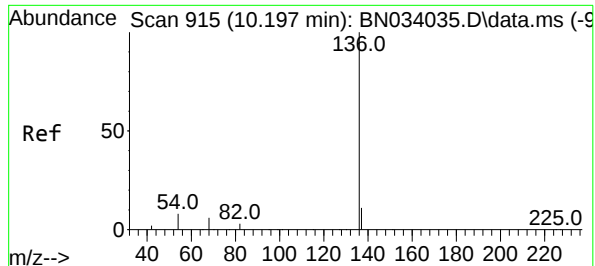
Tgt Ion: 99 Resp: 8150
Ion Ratio Lower Upper
99 100
42 22.3 17.8 26.8
71 32.7 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 93 Resp: 7581
Ion Ratio Lower Upper
93 100
63 84.1 67.3 100.9
95 33.5 26.8 40.2

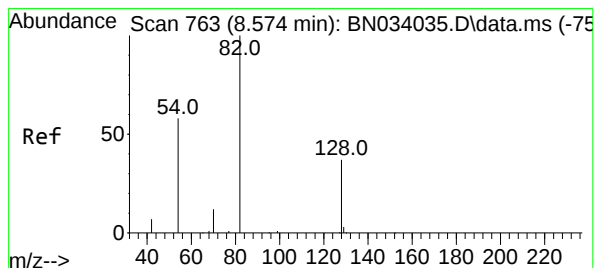
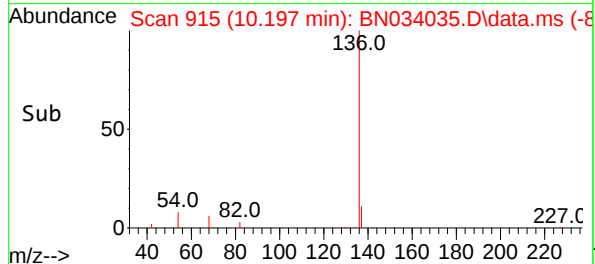
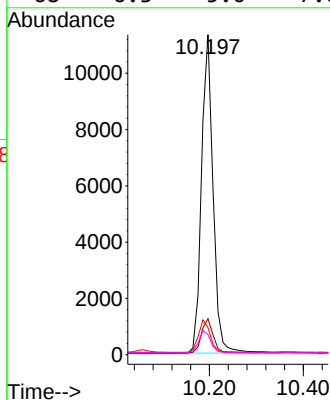
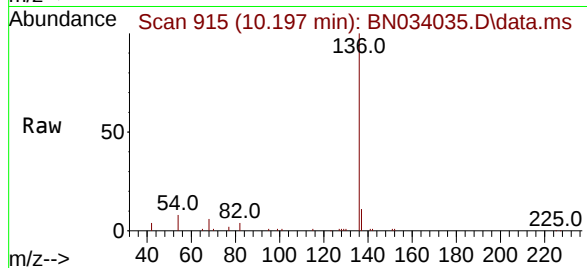




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

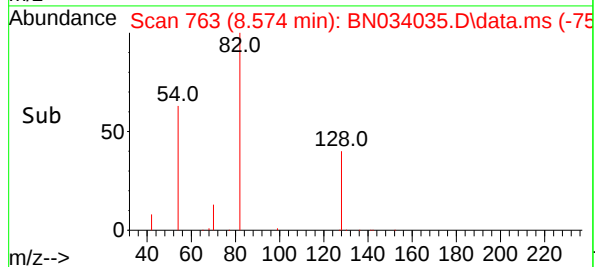
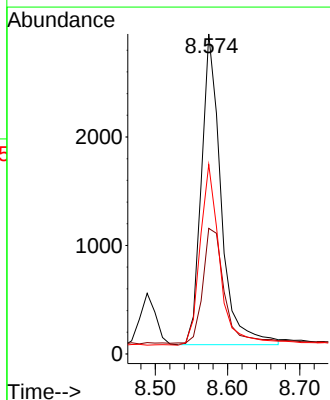
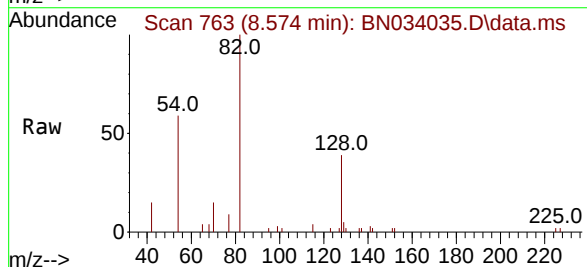
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

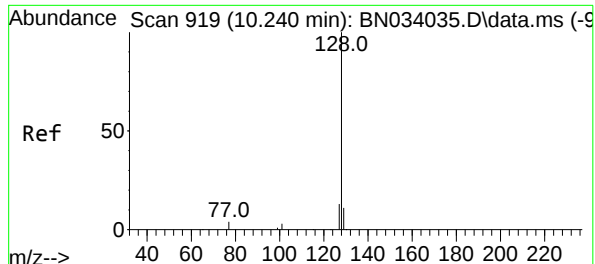
Tgt Ion:	136	Resp:	19411
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.5	6.8	10.2
68	6.3	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:	82	Resp:	5434
Ion	Ratio	Lower	Upper
82	100		
128	39.3	31.4	47.2
54	59.2	47.4	71.0





#9

Naphthalene

Concen: 0.385 ng

RT: 10.240 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

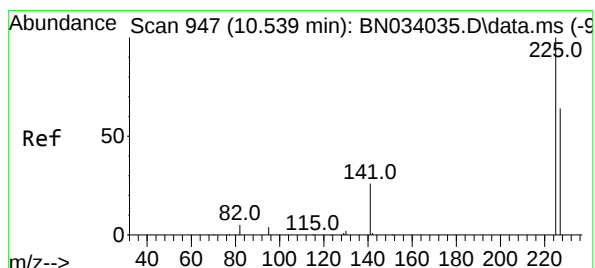
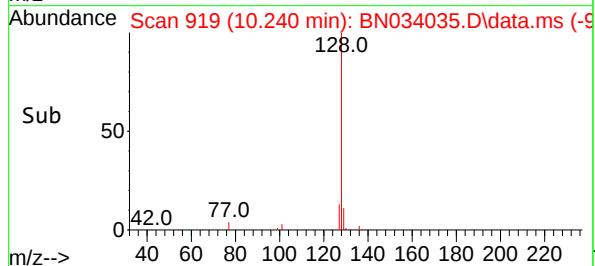
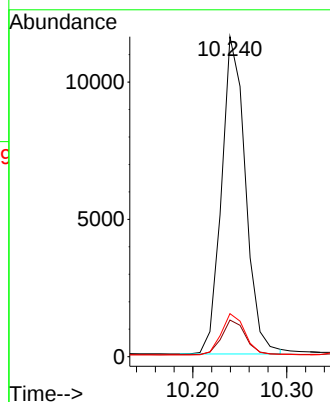
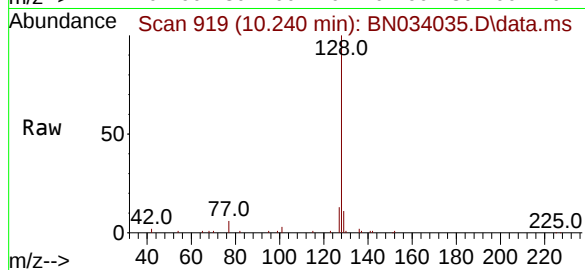
Tgt Ion:128 Resp: 20506

Ion Ratio Lower Upper

128 100

129 11.5 9.2 13.8

127 13.4 10.7 16.1



#10

Hexachlorobutadiene

Concen: 0.395 ng

RT: 10.539 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

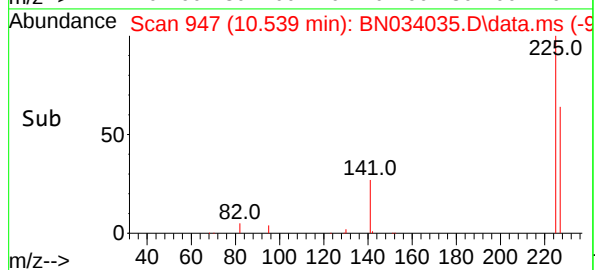
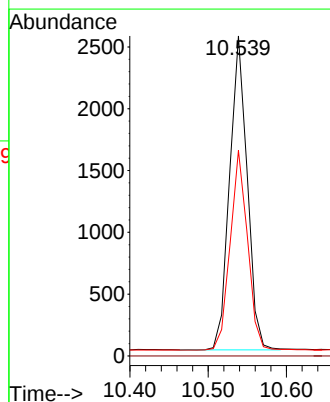
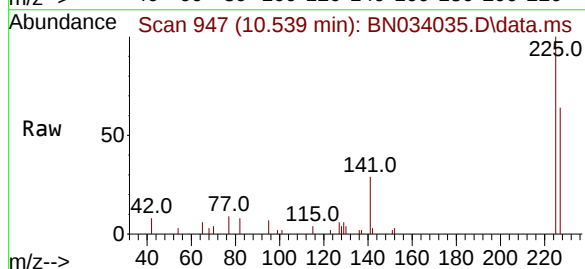
Tgt Ion:225 Resp: 3968

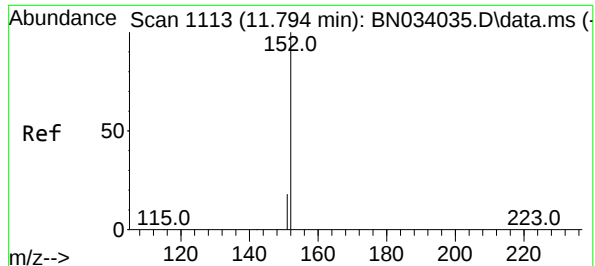
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.1 50.5 75.7

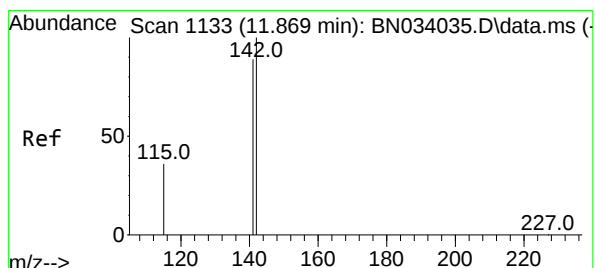
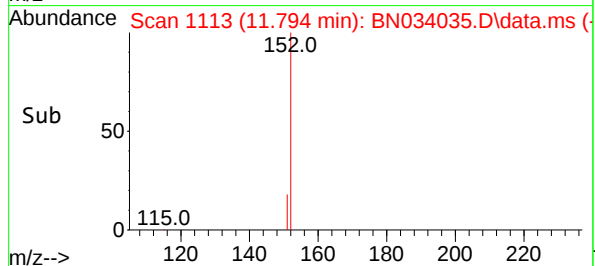
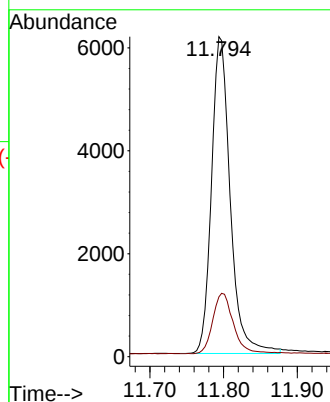
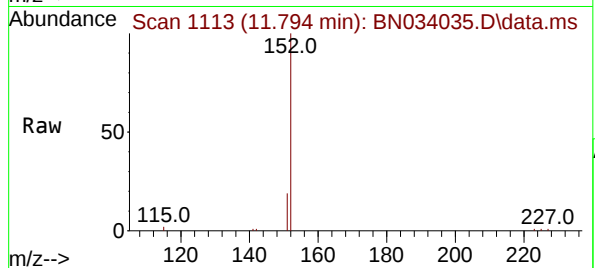




#11
2-Methylnaphthalene-d10
Concen: 0.379 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

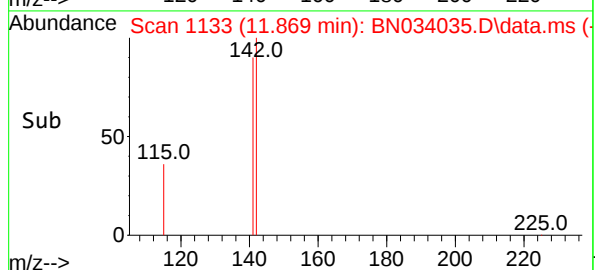
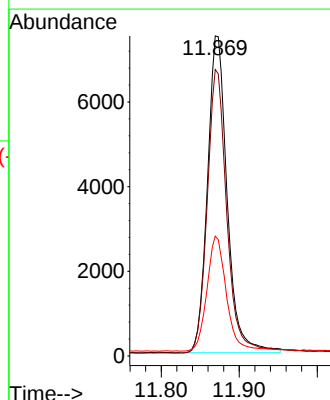
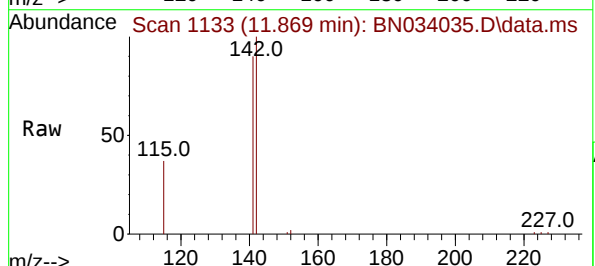
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

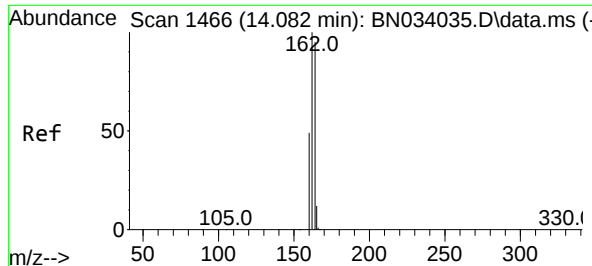
Tgt Ion:152 Resp: 10871
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:142 Resp: 13168
Ion Ratio Lower Upper
142 100
141 89.5 71.6 107.4
115 37.5 30.0 45.0

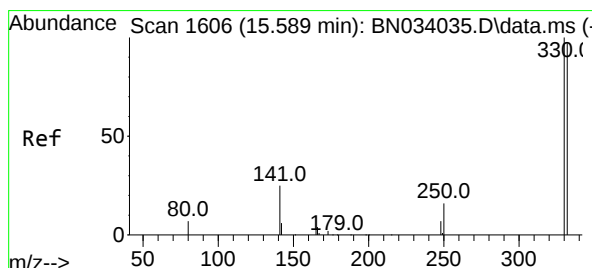
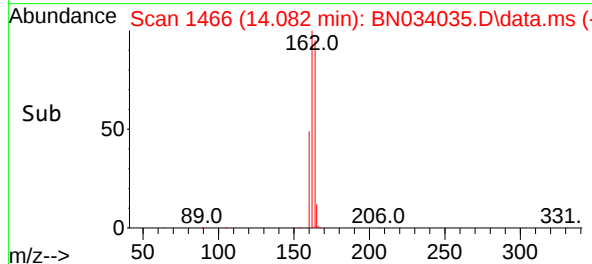
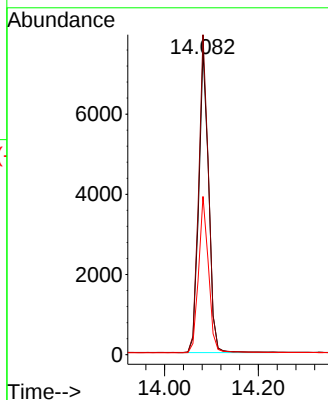
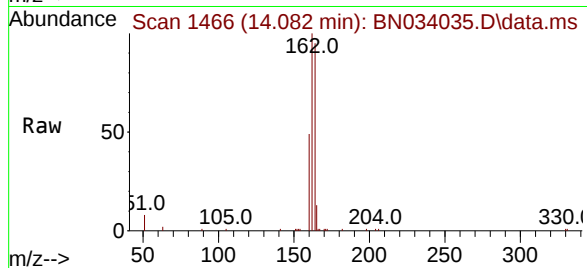




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

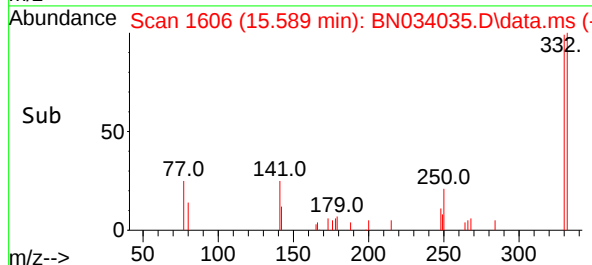
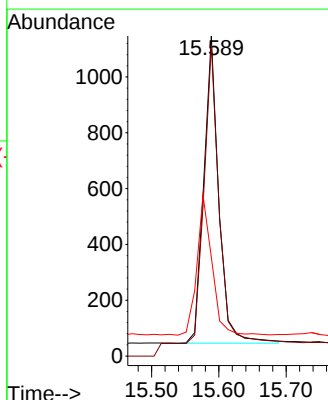
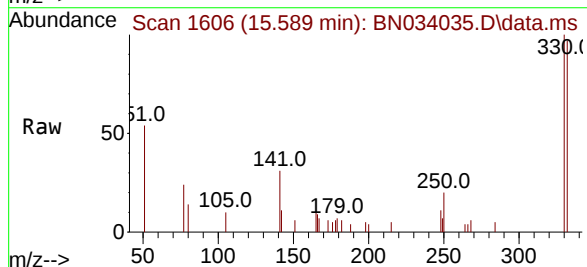
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

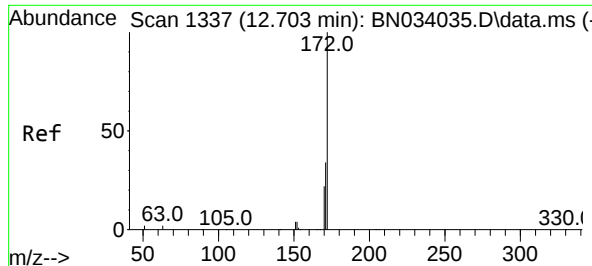
Tgt Ion:164 Resp: 11055
Ion Ratio Lower Upper
164 100
162 105.2 84.2 126.2
160 52.1 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:330 Resp: 1711
Ion Ratio Lower Upper
330 100
332 96.7 77.4 116.0
141 44.9 35.9 53.9

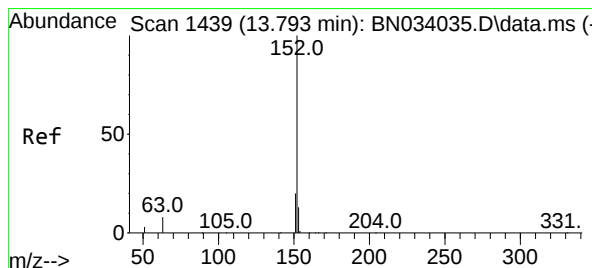
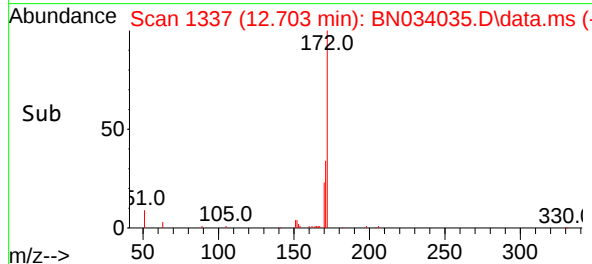
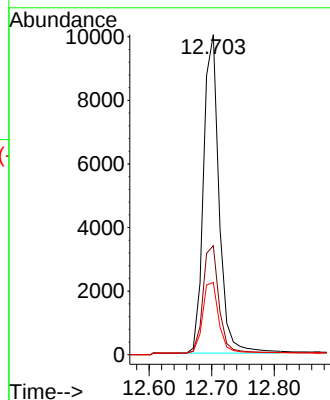
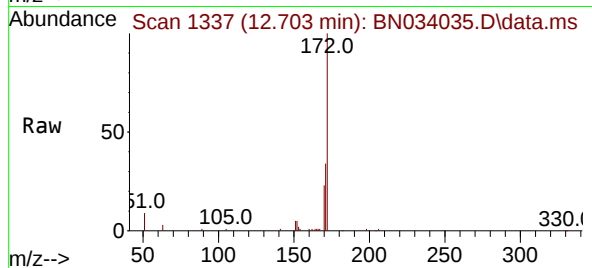




#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.703 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

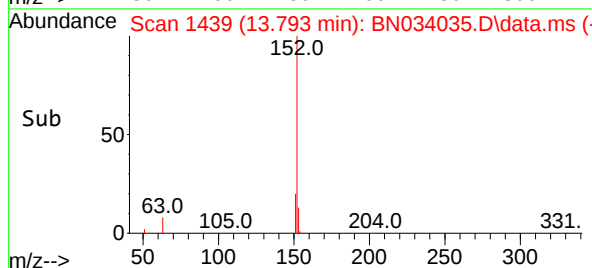
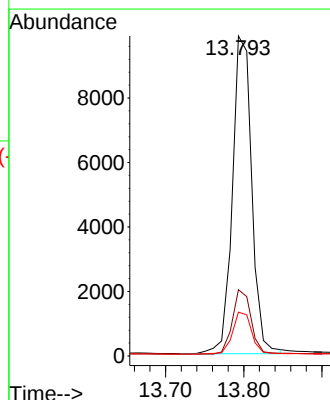
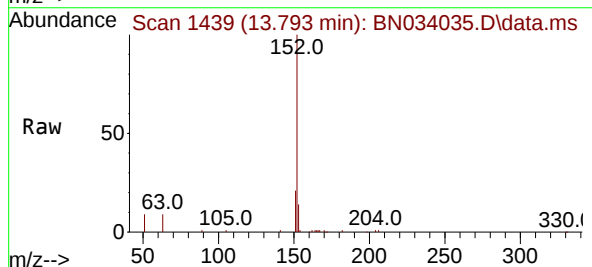
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

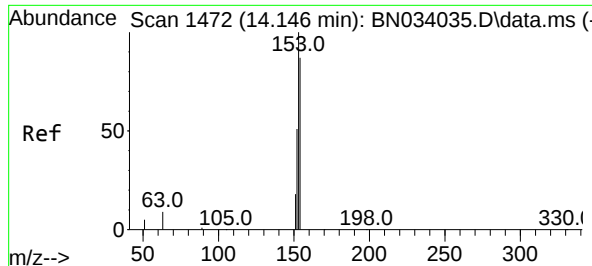
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.3	40.9
170	22.6	18.1	27.1



#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	12.9	10.3	15.5





#17

Acenaphthene

Concen: 0.383 ng

RT: 14.146 min Scan# 1472

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

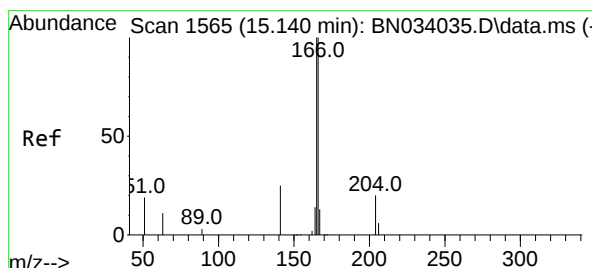
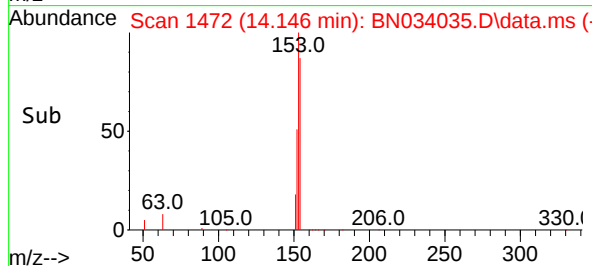
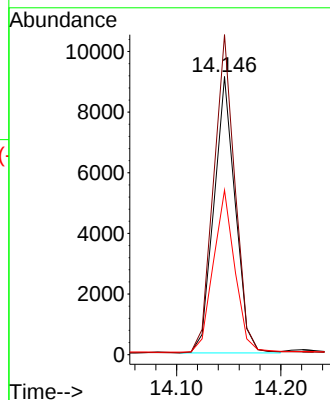
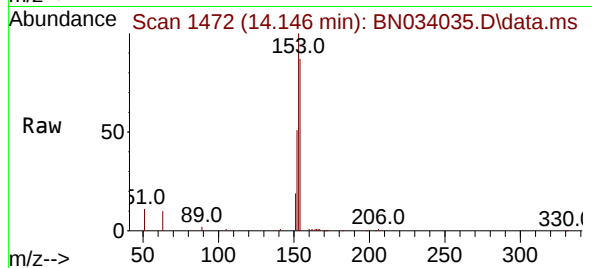
Tgt Ion:154 Resp: 12987

Ion Ratio Lower Upper

154 100

153 114.5 91.6 137.4

152 59.3 47.4 71.2



#18

Fluorene

Concen: 0.379 ng

RT: 15.140 min Scan# 1565

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

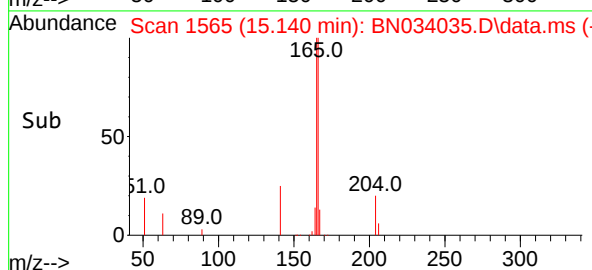
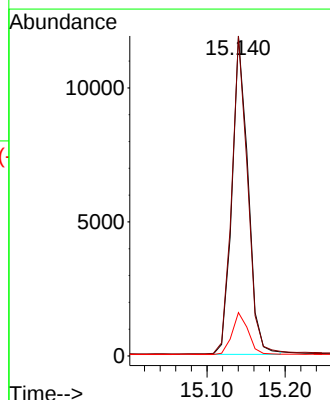
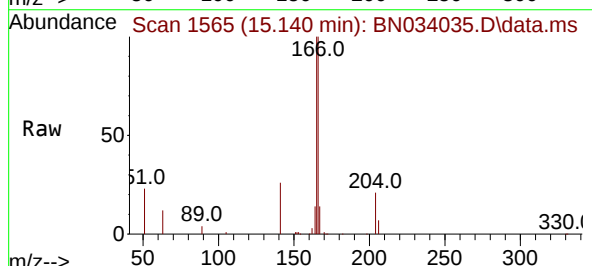
Tgt Ion:166 Resp: 16895

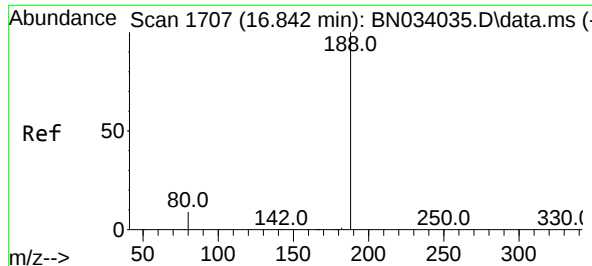
Ion Ratio Lower Upper

166 100

165 98.9 79.1 118.7

167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

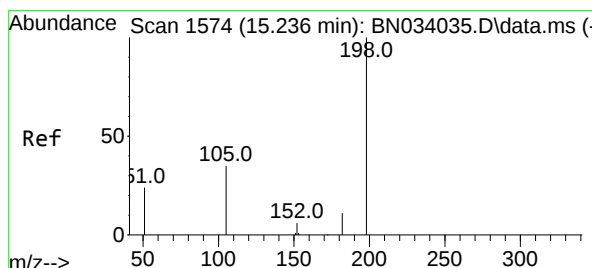
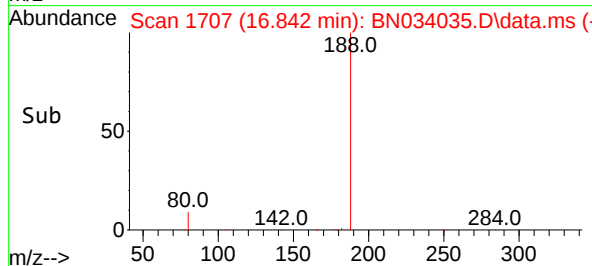
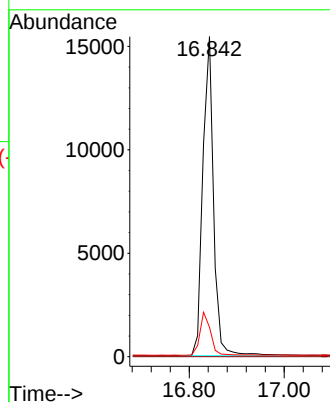
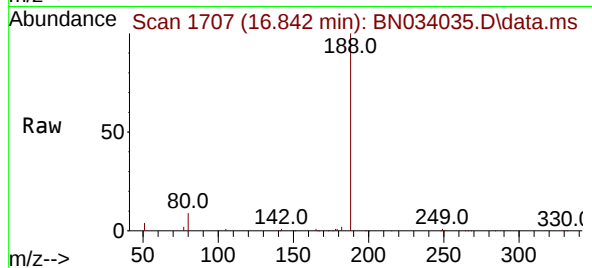
Tgt Ion:188 Resp: 24256

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 7.4 11.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.388 ng

RT: 15.236 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

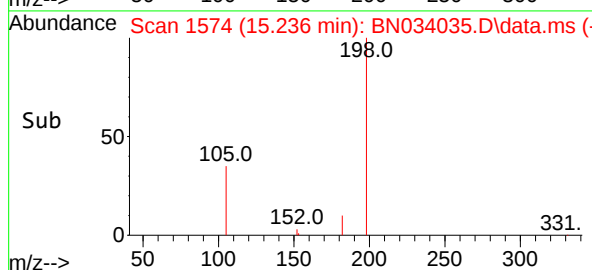
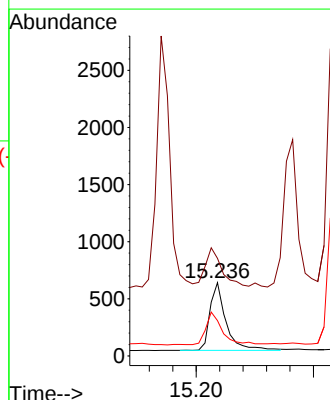
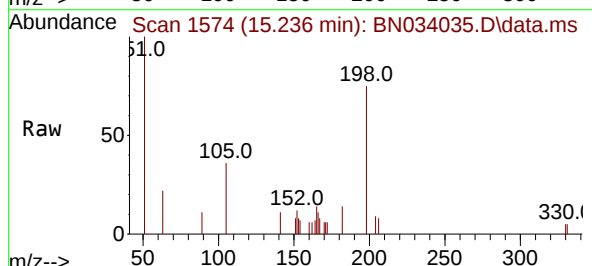
Tgt Ion:198 Resp: 1127

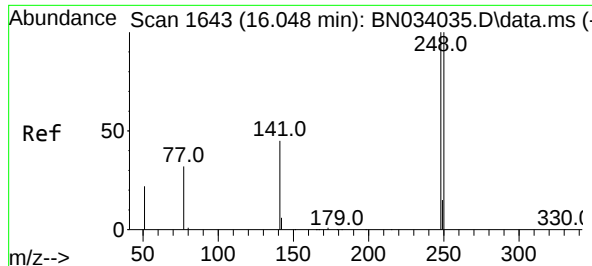
Ion Ratio Lower Upper

198 100

51 133.0 106.4 159.6

105 48.1 38.5 57.7

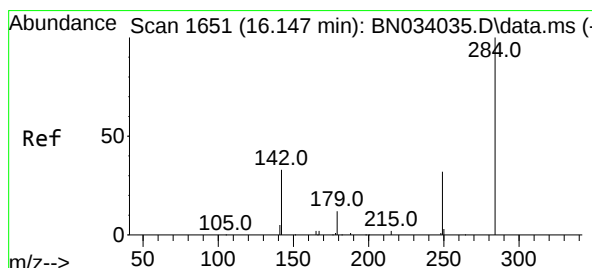
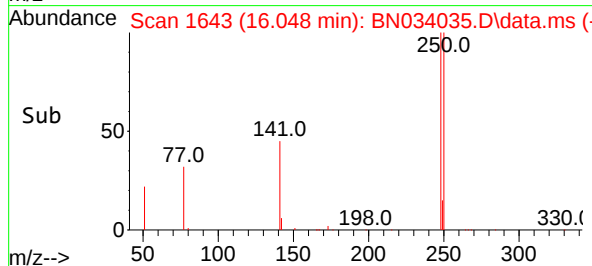
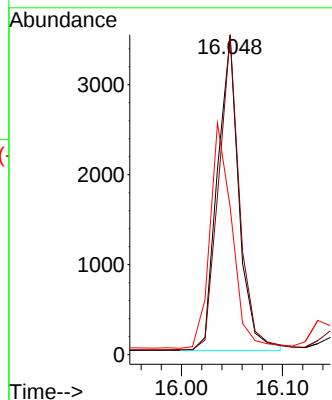
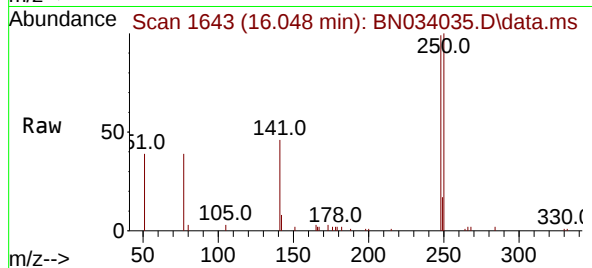




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

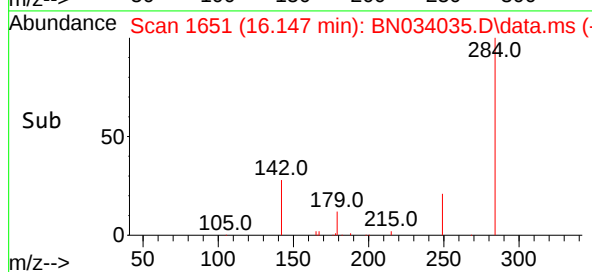
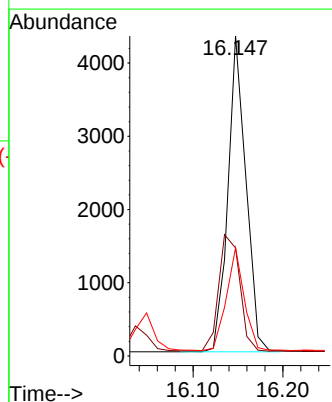
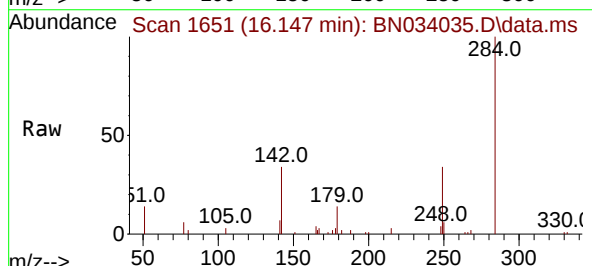
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

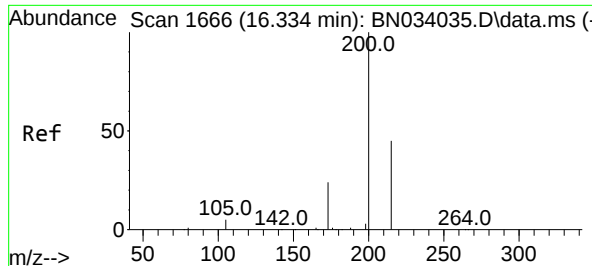
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	80.5	120.7
141	46.4	37.1	55.7



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	43.1	34.5	51.7
249	32.1	25.8	38.6

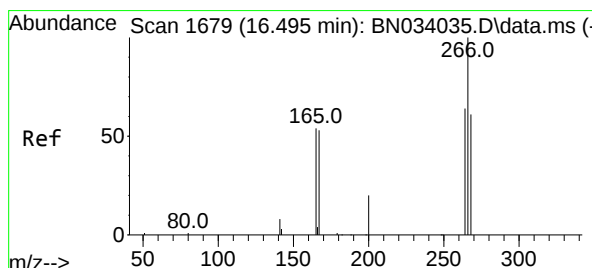
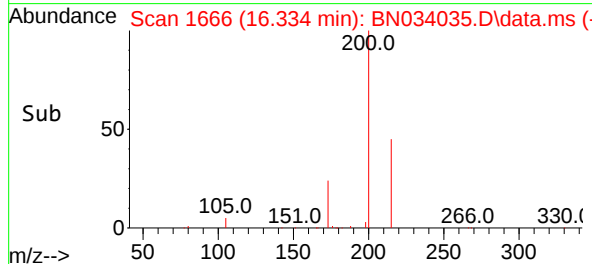
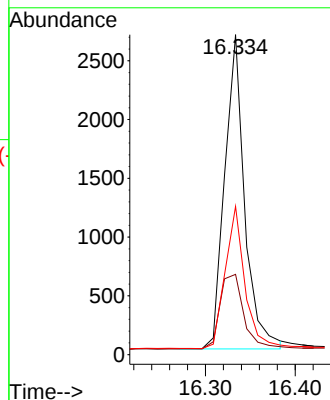
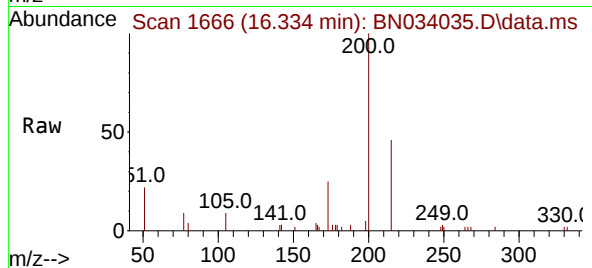




#23
Atrazine
Concen: 0.365 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

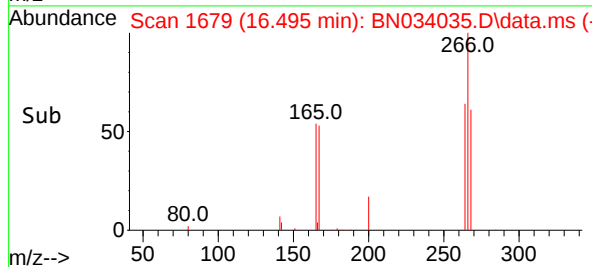
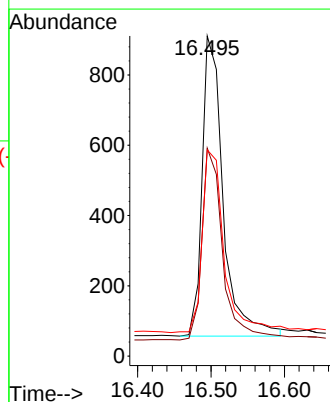
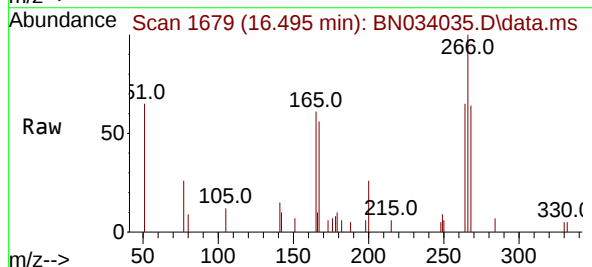
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

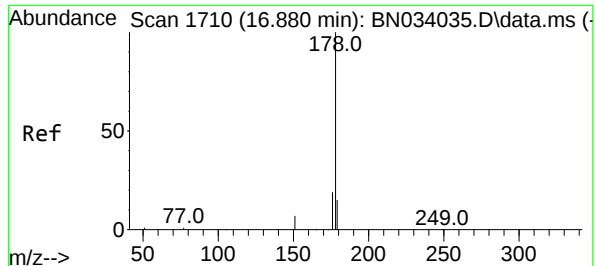
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.1	20.1	30.1
215	46.3	37.0	55.6



#24
Pentachlorophenol
Concen: 0.335 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2
268	62.9	51.0	76.4





#25

Phenanthrene

Concen: 0.385 ng

RT: 16.880 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

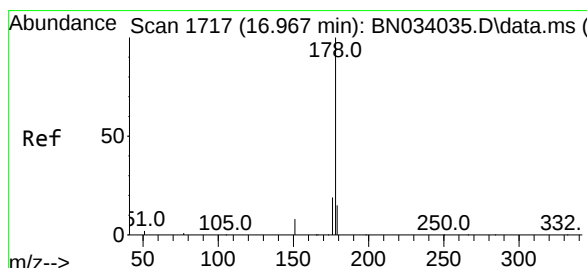
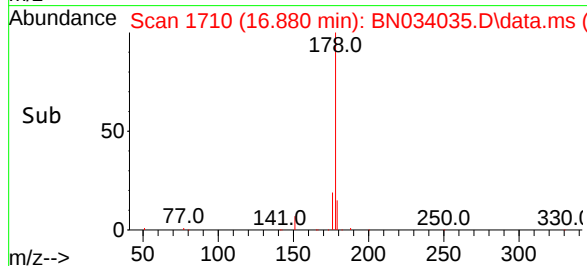
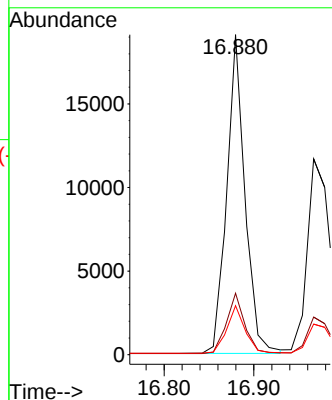
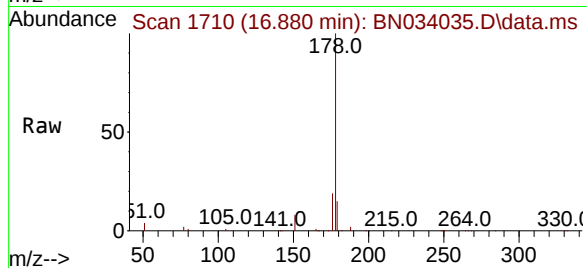
Tgt Ion:178 Resp: 26847

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.1 12.1 18.1



#26

Anthracene

Concen: 0.360 ng

RT: 16.967 min Scan# 1717

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

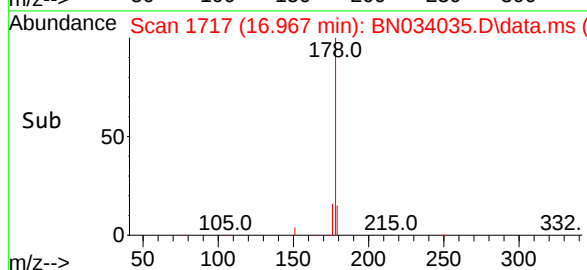
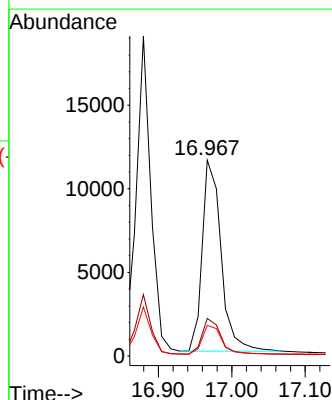
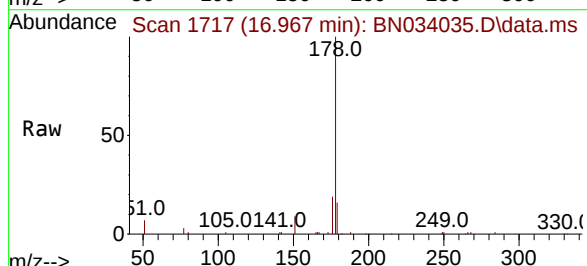
Tgt Ion:178 Resp: 20459

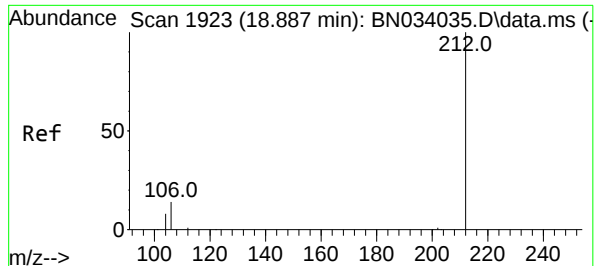
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.6

179 15.4 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 18.887 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

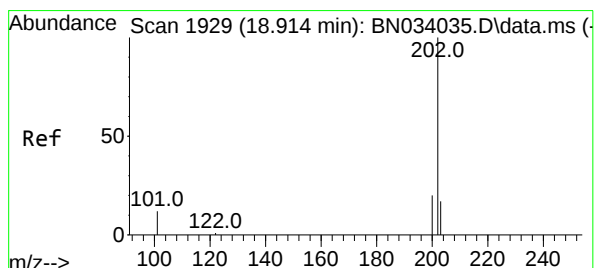
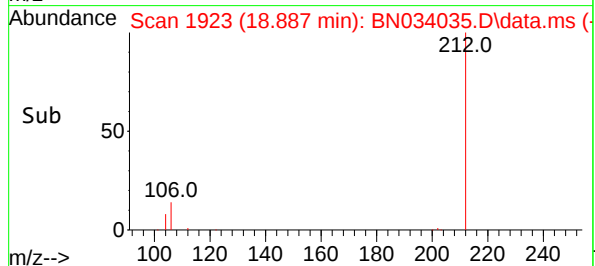
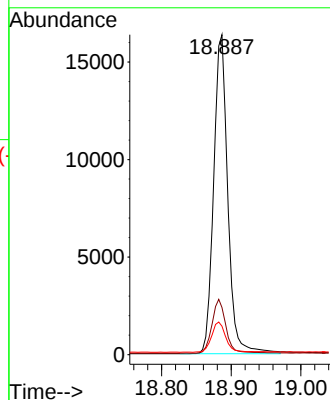
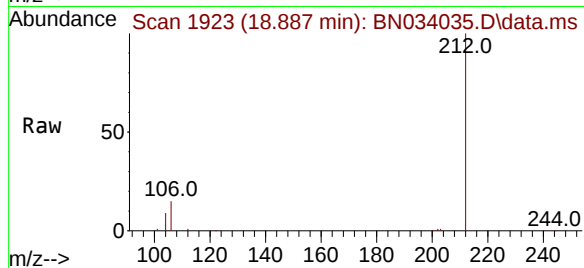
Tgt Ion:212 Resp: 23105

Ion Ratio Lower Upper

212 100

106 16.8 13.4 20.2

104 9.7 7.8 11.6



#28

Fluoranthene

Concen: 0.378 ng

RT: 18.914 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

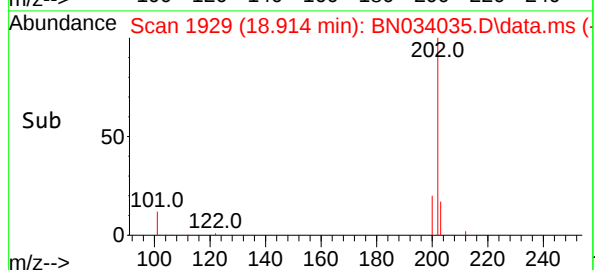
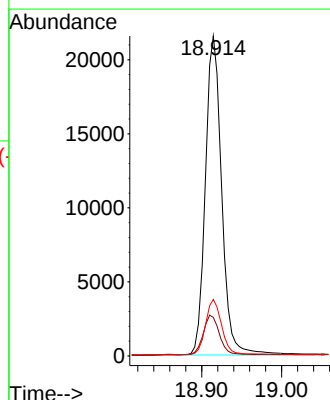
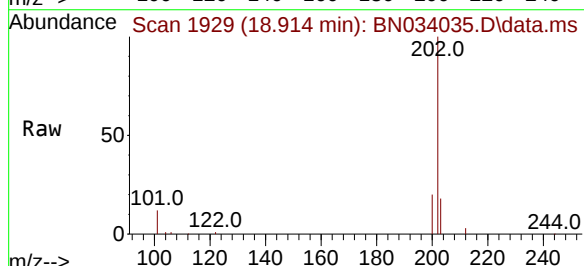
Tgt Ion:202 Resp: 30513

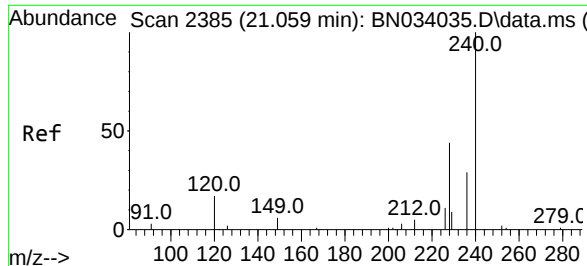
Ion Ratio Lower Upper

202 100

101 12.6 10.1 15.1

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

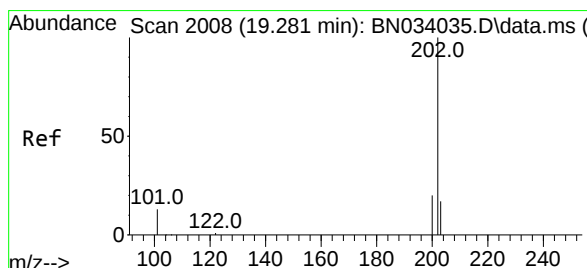
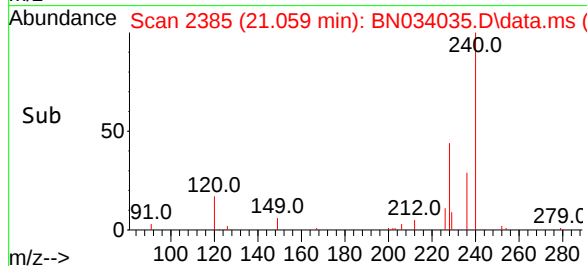
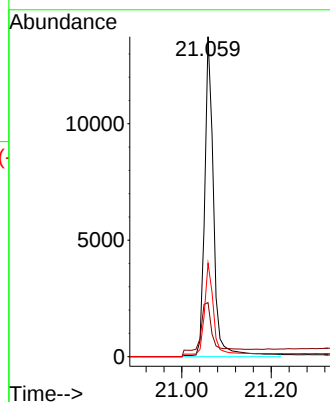
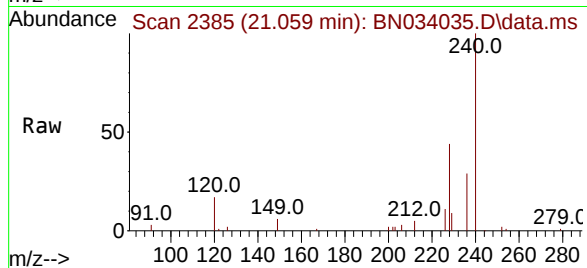
Tgt Ion:240 Resp: 18497

Ion Ratio Lower Upper

240 100

120 16.9 13.5 20.3

236 29.2 23.4 35.0



#30

Pyrene

Concen: 0.401 ng

RT: 19.281 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

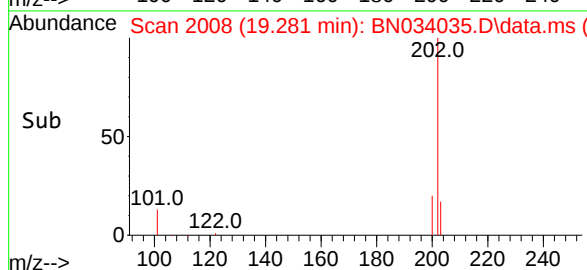
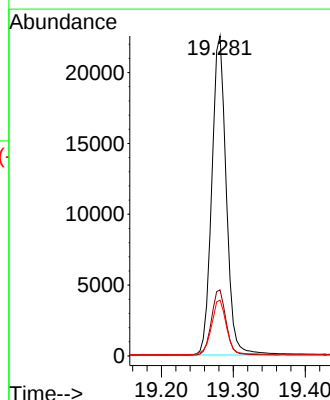
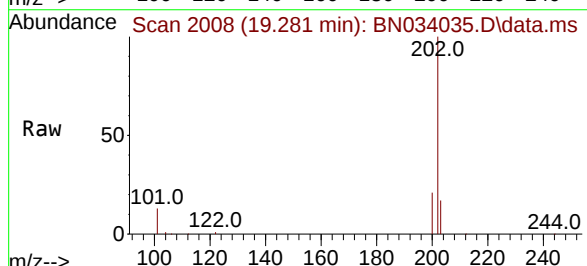
Tgt Ion:202 Resp: 31284

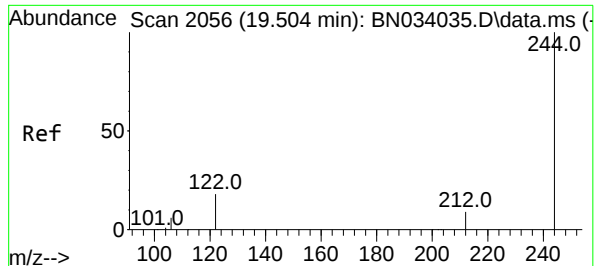
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.9 14.3 21.5

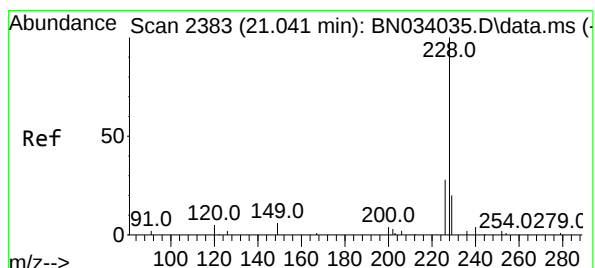
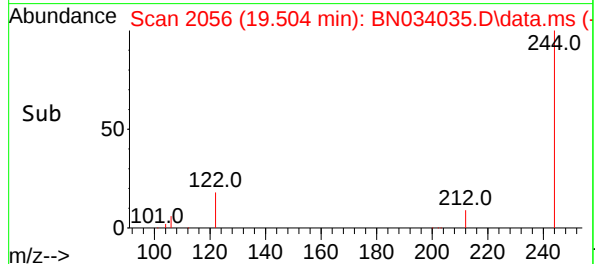
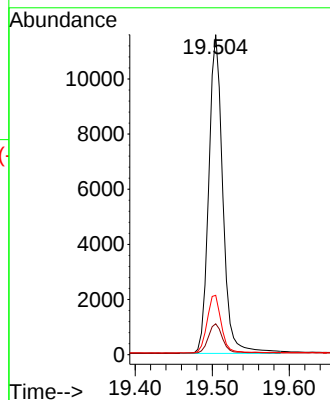
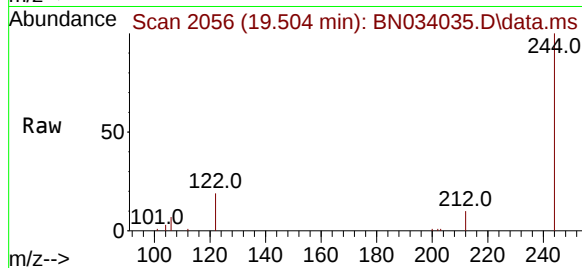




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.504 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

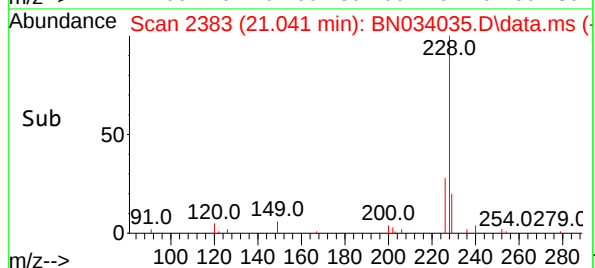
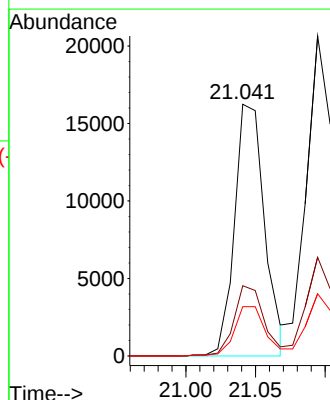
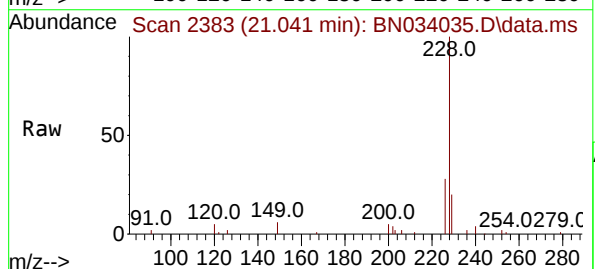
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

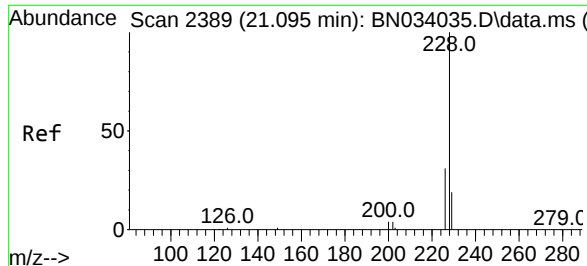
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	18.5	14.8	22.2



#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.3	33.5
229	19.6	15.7	23.5





#33

Chrysene

Concen: 0.405 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

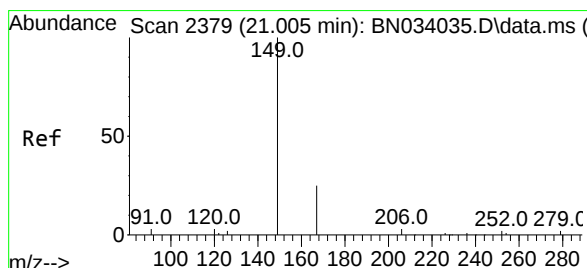
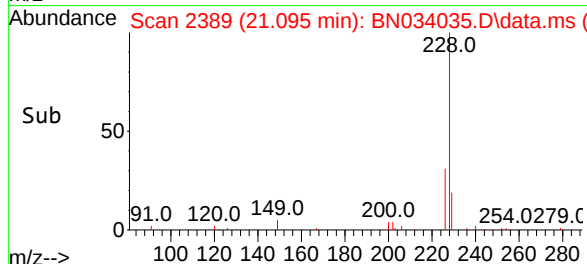
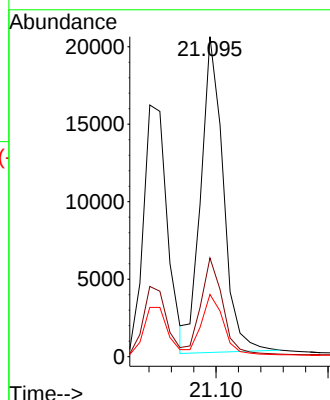
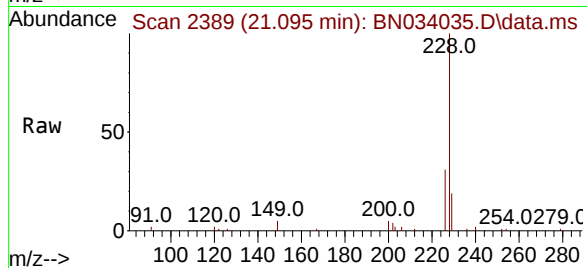
Tgt Ion:228 Resp: 28280

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.4 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.417 ng

RT: 21.005 min Scan# 2379

Delta R.T. -0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

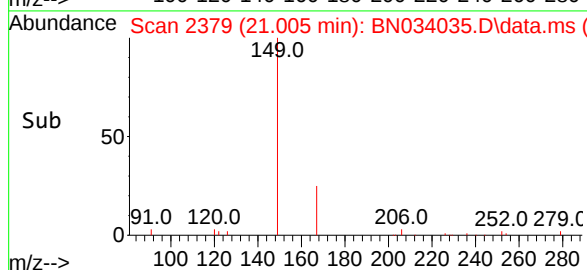
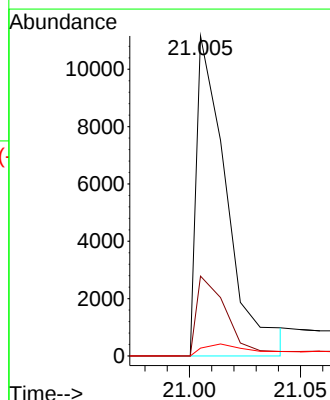
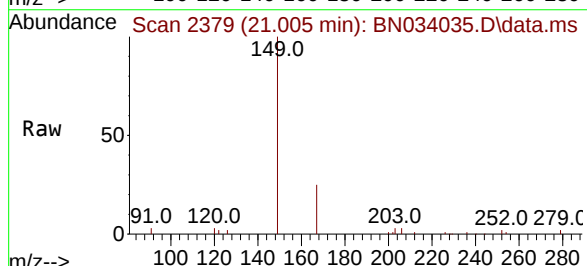
Tgt Ion:149 Resp: 10166

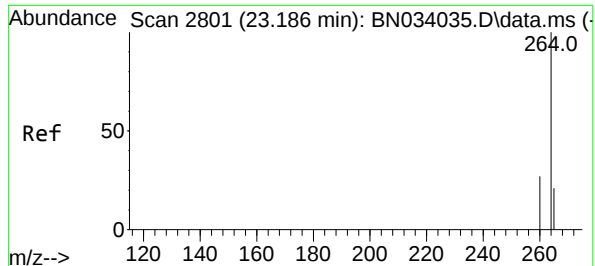
Ion Ratio Lower Upper

149 100

167 24.9 19.9 29.9

279 5.7 4.6 6.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.186 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN034035.D

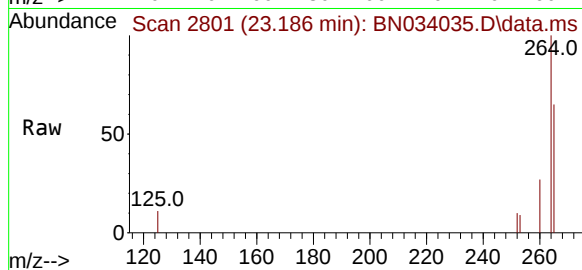
Acq: 18 Sep 2024 13:05

Instrument :

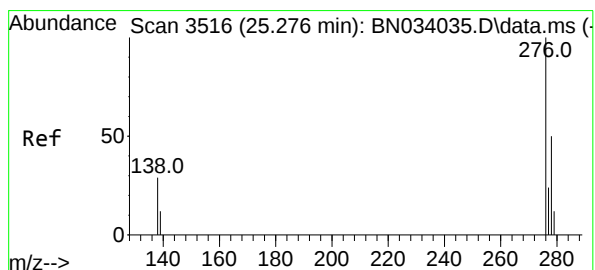
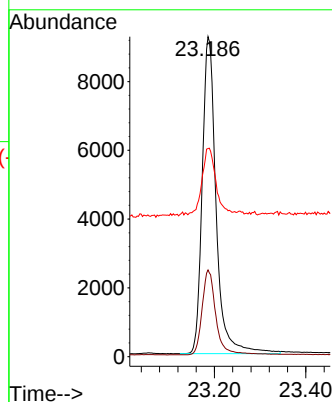
BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:	264	Resp:	19466
Ion Ratio	Lower	Upper	
264	100		
260	27.1	21.7	32.5
265	65.1	52.1	78.1



#36

Indeno(1,2,3-cd)pyrene

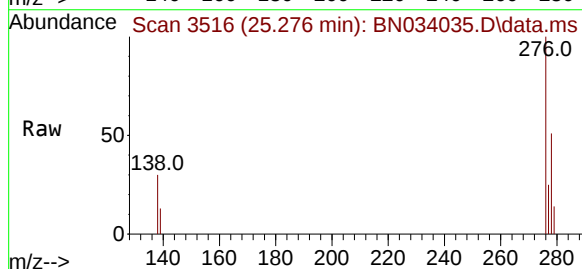
Concen: 0.412 ng

RT: 25.276 min Scan# 3516

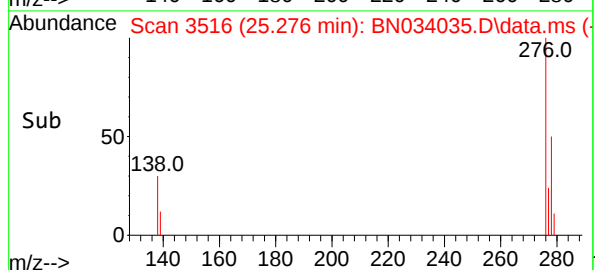
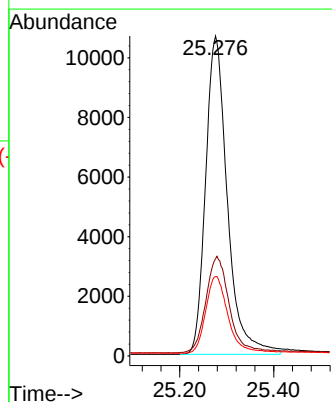
Delta R.T. 0.000 min

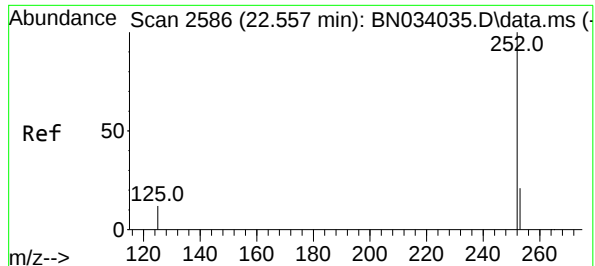
Lab File: BN034035.D

Acq: 18 Sep 2024 13:05



Tgt Ion:	276	Resp:	34361
Ion Ratio	Lower	Upper	
276	100		
138	32.5	25.9	38.9
277	24.6	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.371 ng

RT: 22.557 min Scan# 2586

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

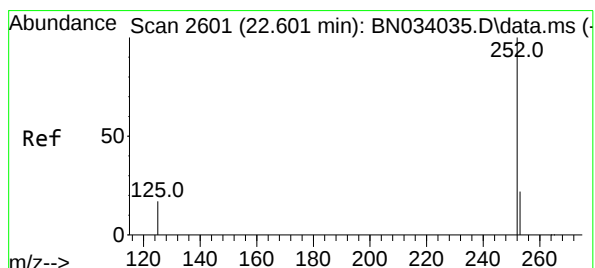
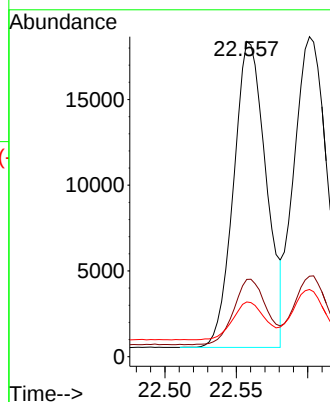
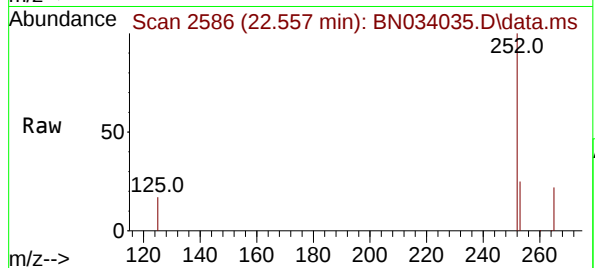
Tgt Ion:252 Resp: 28282

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 17.3 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.395 ng

RT: 22.601 min Scan# 2601

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

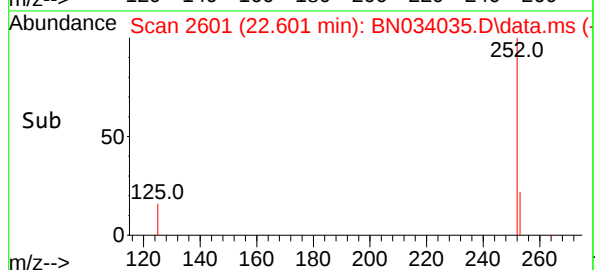
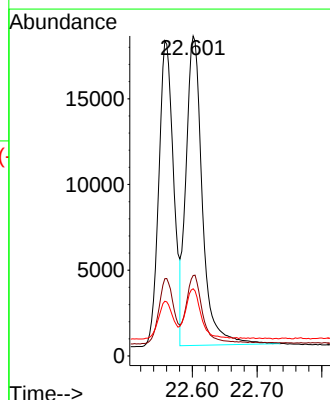
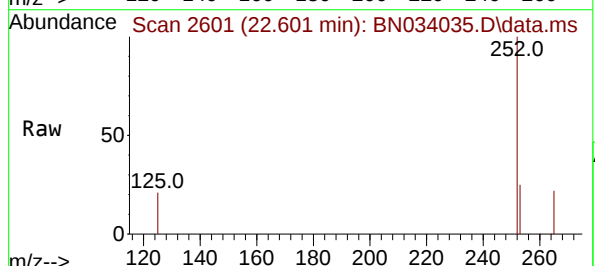
Tgt Ion:252 Resp: 31658

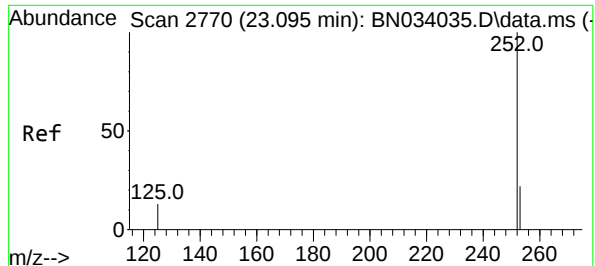
Ion Ratio Lower Upper

252 100

253 25.1 20.1 30.1

125 21.0 16.8 25.2





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

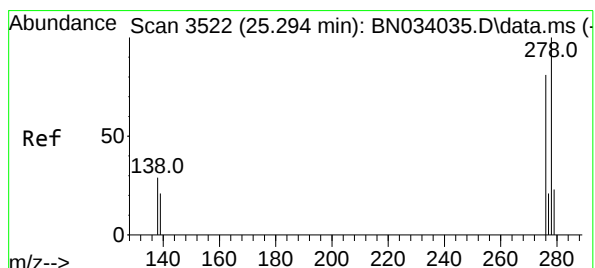
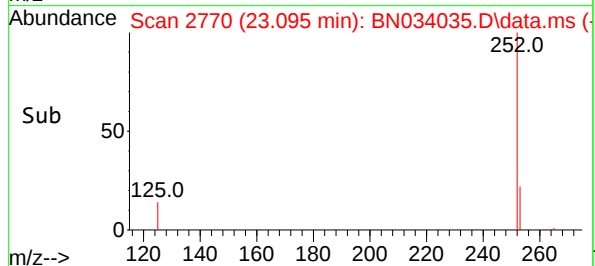
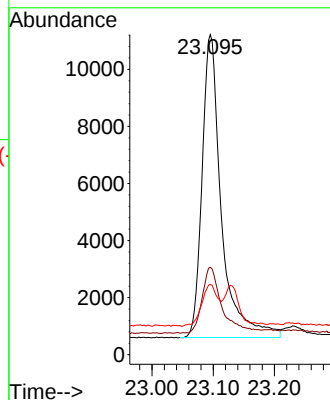
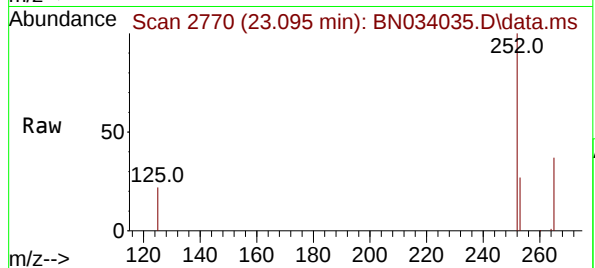
Tgt Ion:252 Resp: 23302

Ion Ratio Lower Upper

252 100

253 27.3 21.8 32.8

125 21.9 17.5 26.3



#40

Dibenzo(a,h)anthracene

Concen: 0.406 ng

RT: 25.294 min Scan# 3522

Delta R.T. 0.000 min

Lab File: BN034035.D

Acq: 18 Sep 2024 13:05

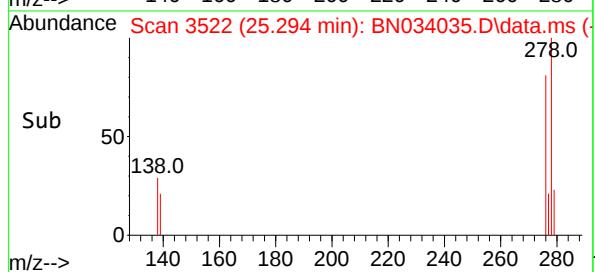
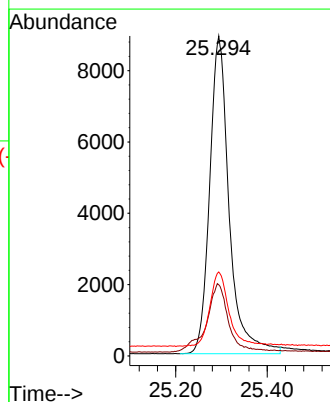
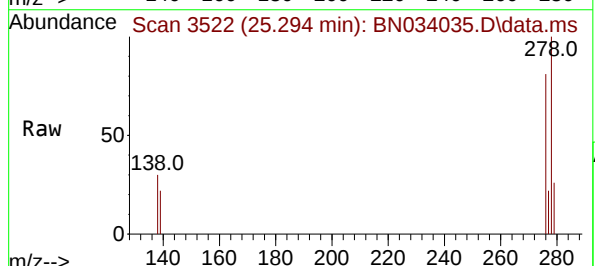
Tgt Ion:278 Resp: 26318

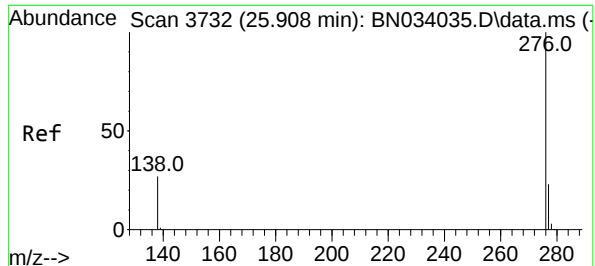
Ion Ratio Lower Upper

278 100

139 22.3 17.8 26.8

279 26.3 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 25.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034035.D

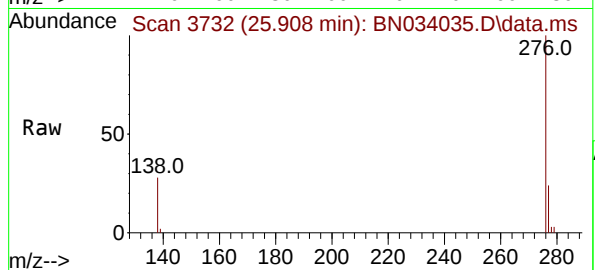
Acq: 18 Sep 2024 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



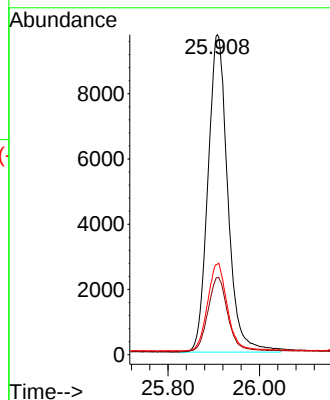
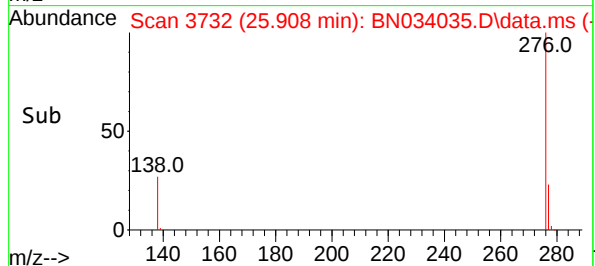
Tgt Ion:276 Resp: 29289

Ion Ratio Lower Upper

276 100

277 24.1 19.3 28.9

138 28.3 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034036.D
 Acq On : 18 Sep 2024 13:41
 Operator : JU/RC
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 18 16:14:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

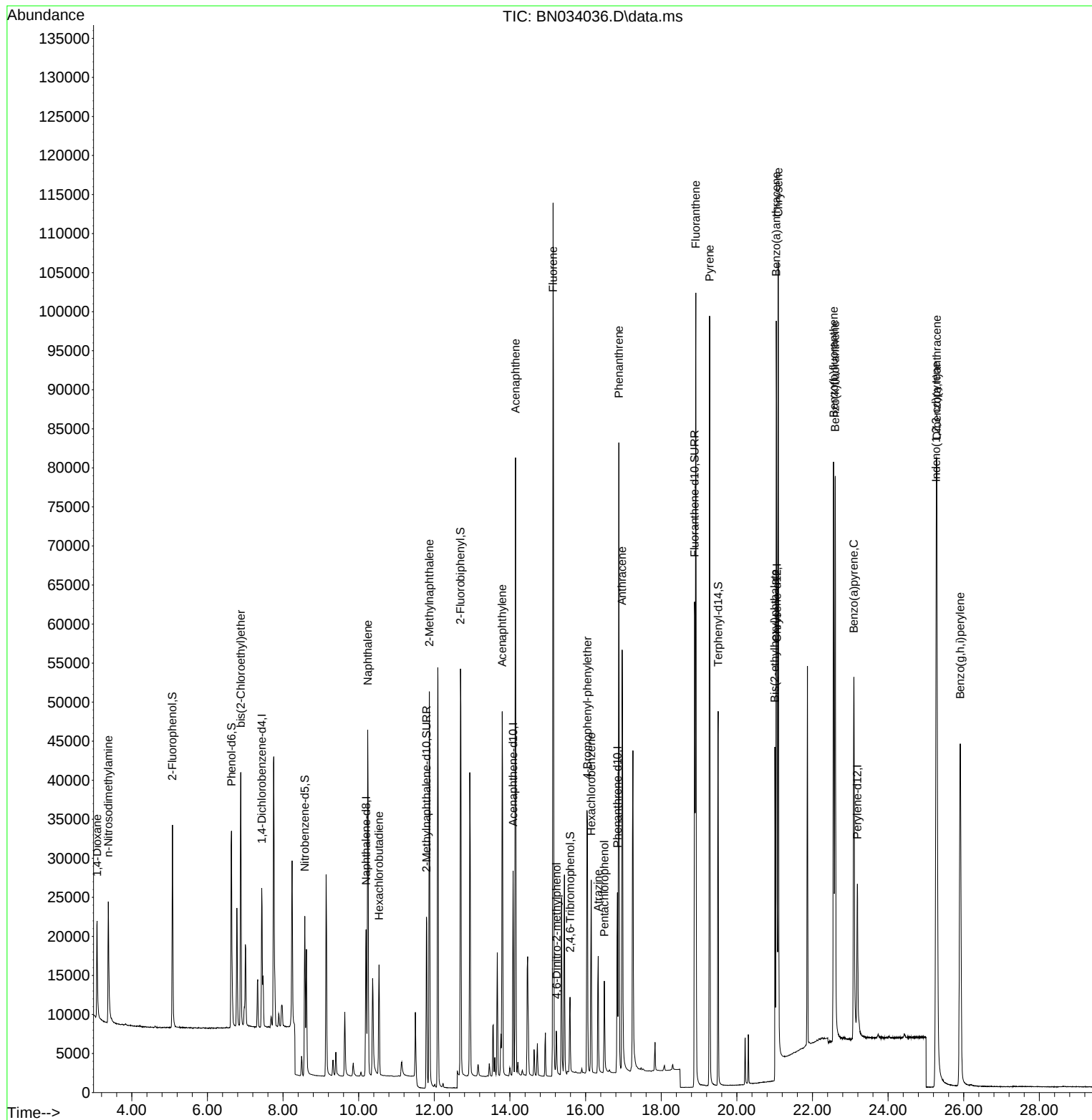
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	8457	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	24297	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	14114	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	31835	0.400	ng	0.00
29) Chrysene-d12	21.059	240	25814	0.400	ng	0.00
35) Perylene-d12	23.186	264	25510	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	20343	0.848	ng	0.00
5) Phenol-d6	6.635	99	23788	0.852	ng	0.00
8) Nitrobenzene-d5	8.574	82	16083	0.865	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	30642	0.854	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	5273	0.825	ng	0.00
15) 2-Fluorobiphenyl	12.692	172	48622	0.847	ng	-0.01
27) Fluoranthene-d10	18.882	212	67435	0.840	ng	0.00
31) Terphenyl-d14	19.505	244	43487	0.843	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.082	88	8513	0.805	ng	92
3) n-Nitrosodimethylamine	3.378	42	10375	0.862	ng	# 98
6) bis(2-Chloroethyl)ether	6.881	93	21590	0.874	ng	99
9) Naphthalene	10.240	128	56897	0.853	ng	99
10) Hexachlorobutadiene	10.539	225	10648	0.848	ng	# 100
12) 2-Methylnaphthalene	11.869	142	37074	0.854	ng	99
16) Acenaphthylene	13.793	152	50928	0.843	ng	100
17) Acenaphthene	14.146	154	36642	0.846	ng	99
18) Fluorene	15.140	166	48102	0.846	ng	100
20) 4,6-Dinitro-2-methylph...	15.236	198	3863	0.792	ng	# 44
21) 4-Bromophenyl-phenylether	16.048	248	14996	0.838	ng	98
22) Hexachlorobenzene	16.147	284	16483	0.821	ng	99
23) Atrazine	16.334	200	12586	0.849	ng	98
24) Pentachlorophenol	16.495	266	5614	0.846	ng	100
25) Phenanthrene	16.880	178	76155	0.833	ng	100
26) Anthracene	16.967	178	62736	0.841	ng	99
28) Fluoranthene	18.915	202	89443	0.845	ng	100
30) Pyrene	19.282	202	91043	0.836	ng	100
32) Benzo(a)anthracene	21.041	228	69334	0.849	ng	100
33) Chrysene	21.095	228	83124	0.853	ng	99
34) Bis(2-ethylhexyl)phtha...	21.005	149	25688	0.755	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.270	276	95053	0.870	ng	100
37) Benzo(b)fluoranthene	22.557	252	82914	0.830	ng	94
38) Benzo(k)fluoranthene	22.601	252	89093	0.849	ng	# 91
39) Benzo(a)pyrene	23.092	252	68137	0.837	ng	# 90
40) Dibenzo(a,h)anthracene	25.288	278	74377	0.876	ng	97
41) Benzo(g,h,i)perylene	25.908	276	82049	0.860	ng	99

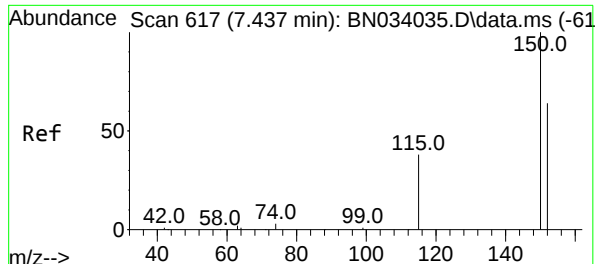
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034036.D
Acq On : 18 Sep 2024 13:41
Operator : JU/RC
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

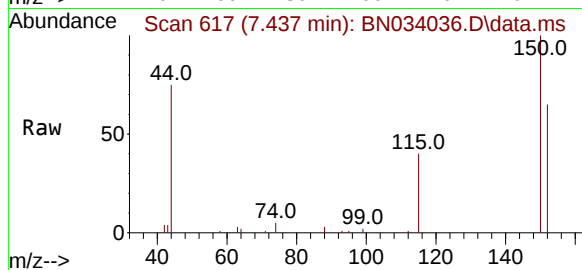
Quant Time: Sep 18 16:14:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



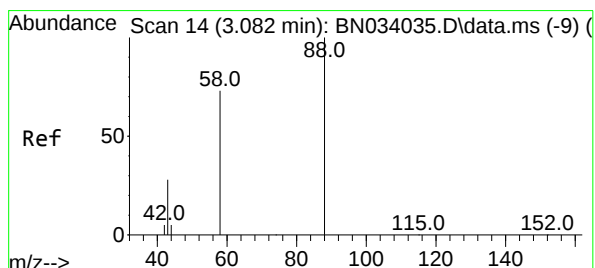
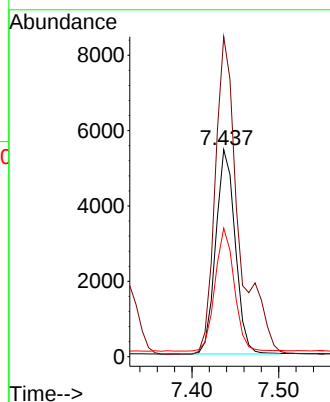
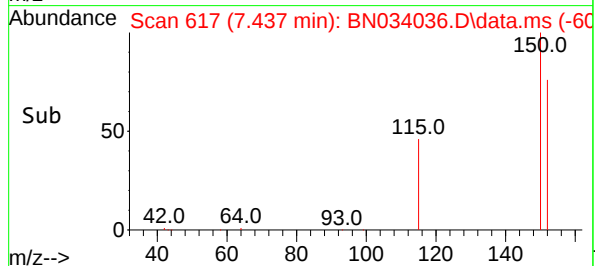


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

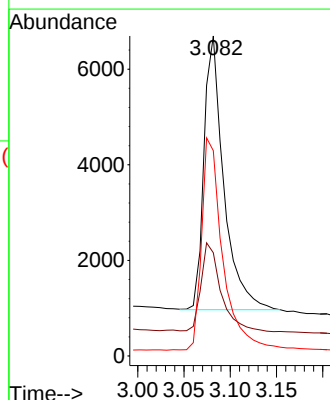
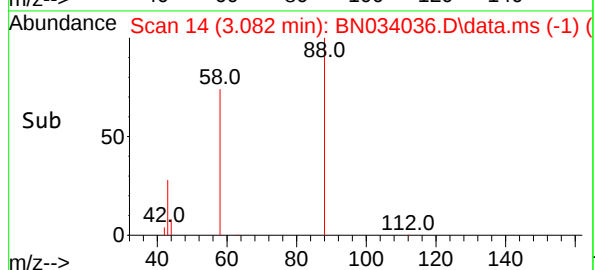
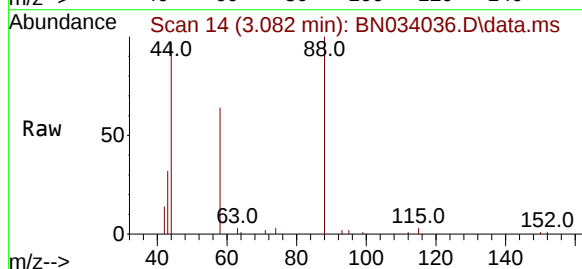


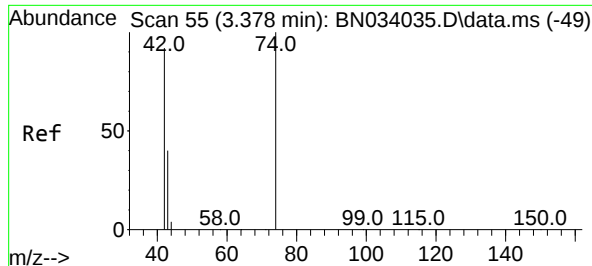
Tgt Ion:152 Resp: 8457
Ion Ratio Lower Upper
152 100
150 154.6 124.6 187.0
115 62.1 50.0 75.0



#2
1,4-Dioxane
Concen: 0.805 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 88 Resp: 8513
Ion Ratio Lower Upper
88 100
43 32.9 25.8 38.8
58 83.0 58.8 88.2

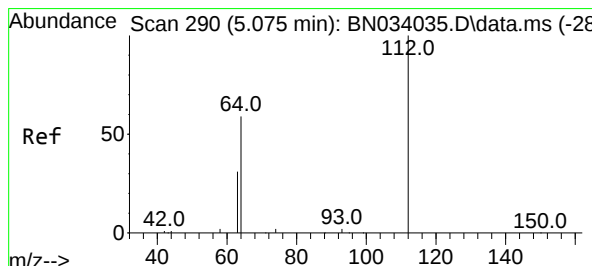
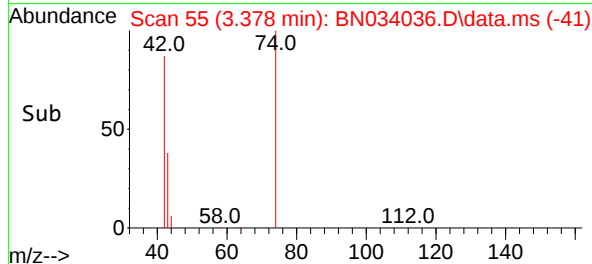
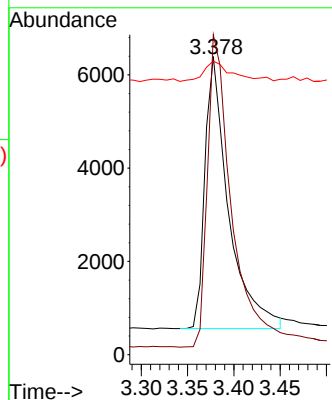
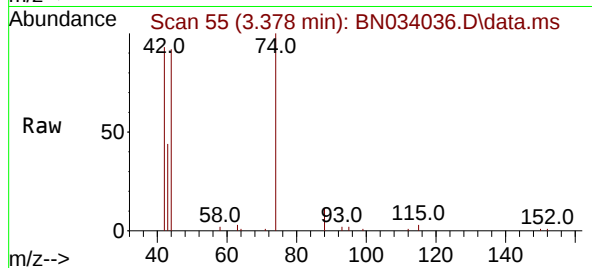




#3
n-Nitrosodimethylamine
Concen: 0.862 ng
RT: 3.378 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

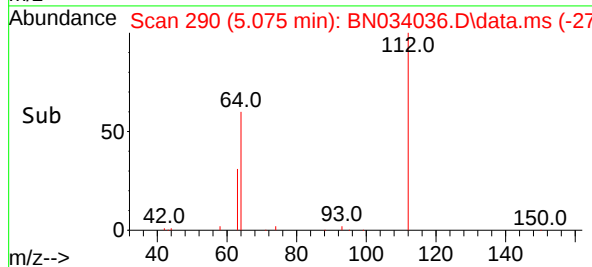
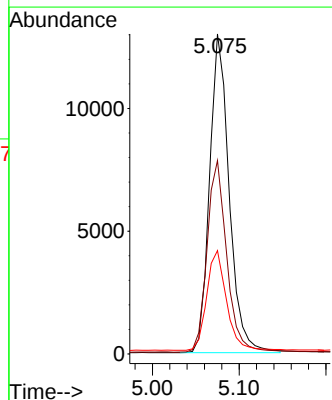
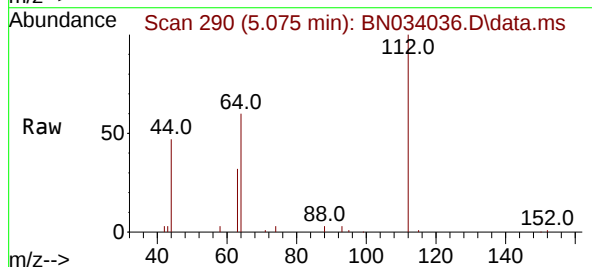
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

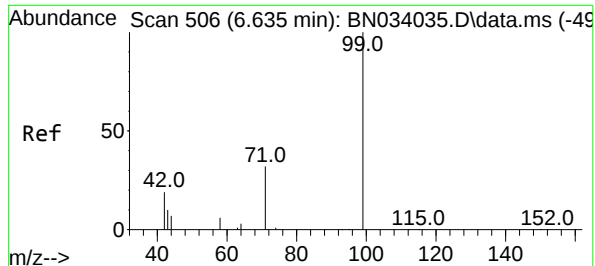
Tgt Ion: 42 Resp: 10375
Ion Ratio Lower Upper
42 100
74 117.9 94.6 142.0
44 8.8 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.848 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 112 Resp: 20343
Ion Ratio Lower Upper
112 100
64 60.4 48.6 72.8
63 31.6 25.6 38.4

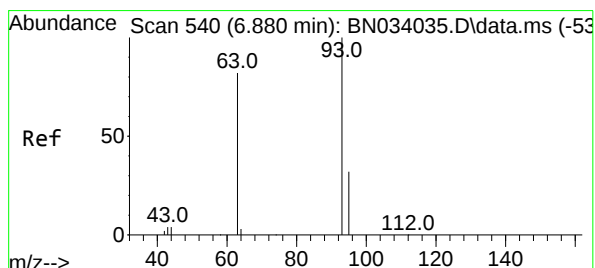
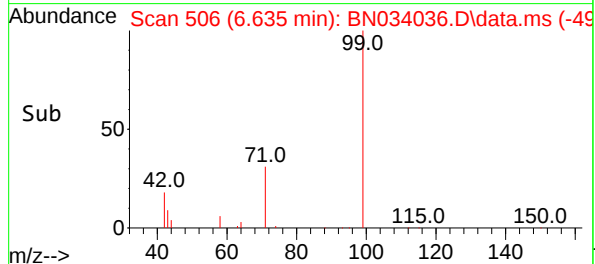
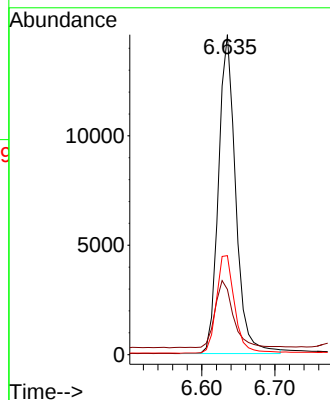
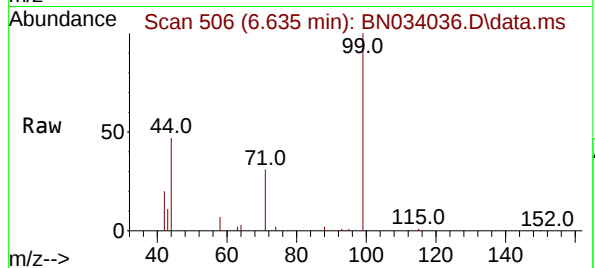




#5
Phenol-d6
Concen: 0.852 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

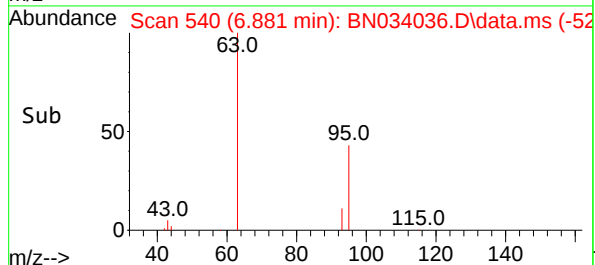
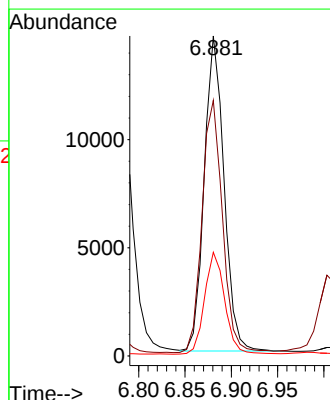
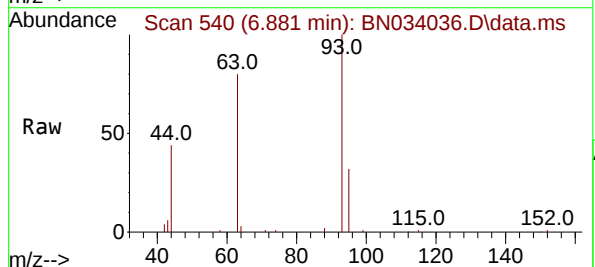
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

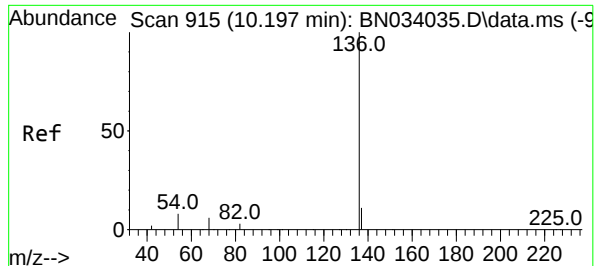
Tgt Ion: 99 Resp: 23788
Ion Ratio Lower Upper
99 100
42 22.0 17.8 26.8
71 32.4 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.874 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 93 Resp: 21590
Ion Ratio Lower Upper
93 100
63 82.8 67.3 100.9
95 32.9 26.8 40.2

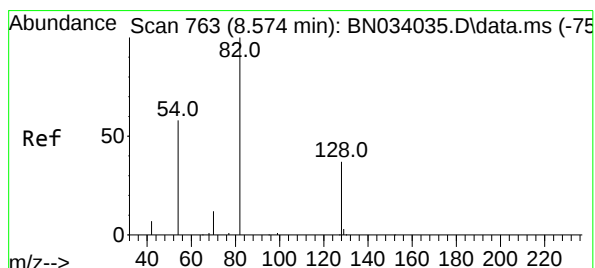
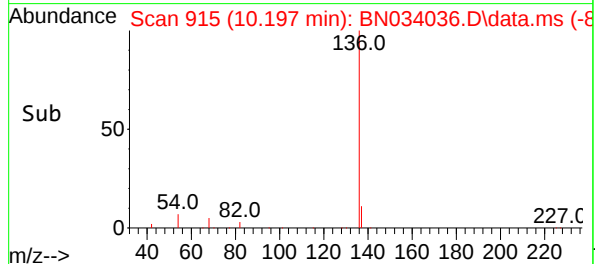
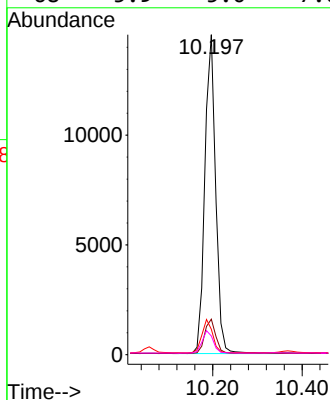
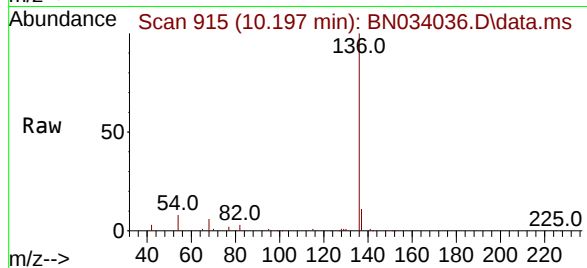




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

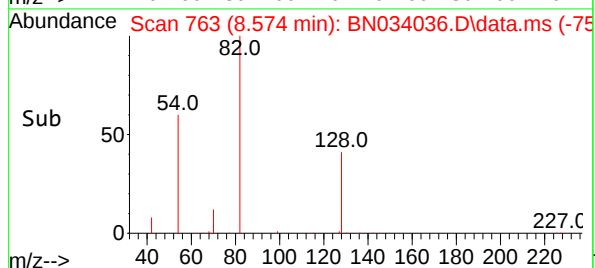
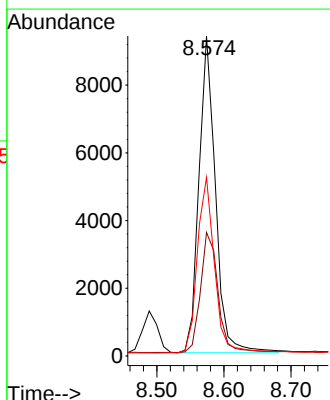
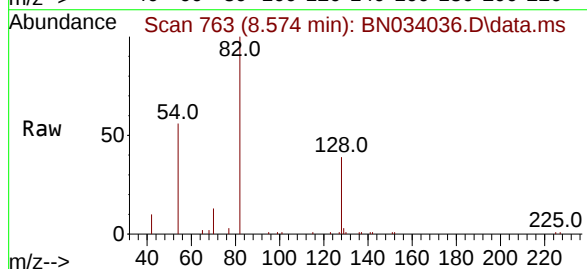
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

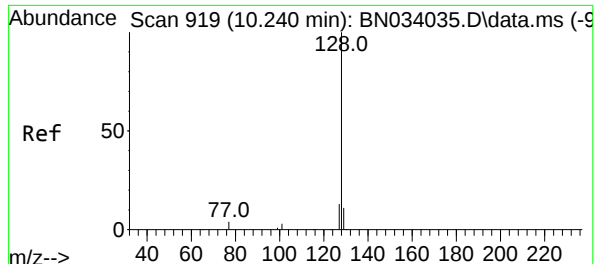
Tgt Ion:	136	Resp:	24297
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.9	6.8	10.2
68	5.9	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.865 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:	82	Resp:	16083
Ion	Ratio	Lower	Upper
82	100		
128	38.6	31.4	47.2
54	55.9	47.4	71.0

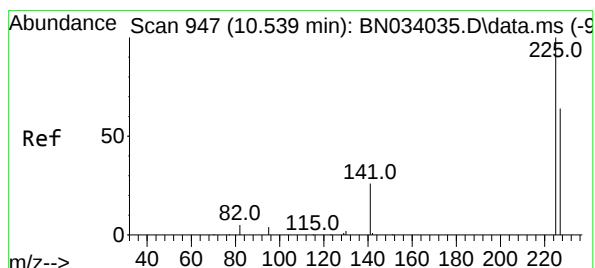
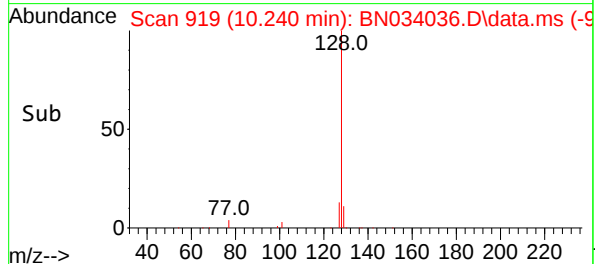
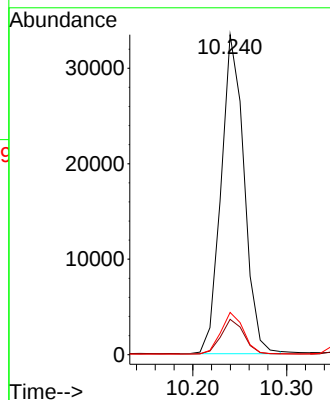
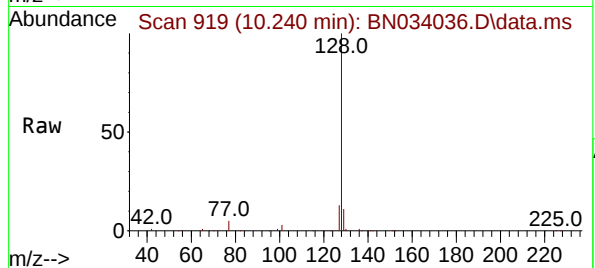




#9
Naphthalene
Concen: 0.853 ng
RT: 10.240 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

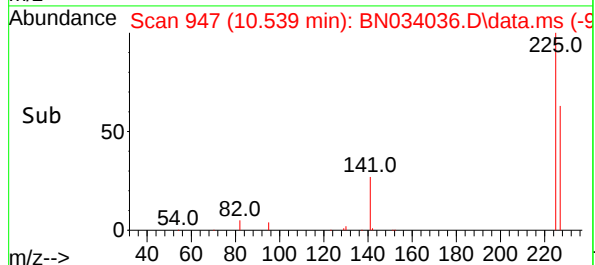
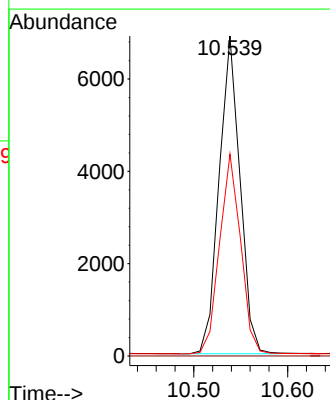
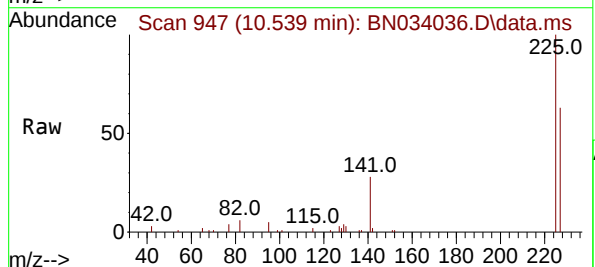
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

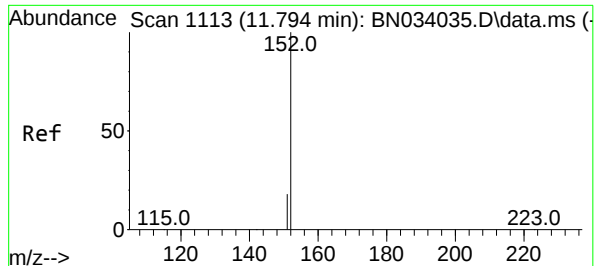
Tgt Ion:128 Resp: 56897
Ion Ratio Lower Upper
128 100
129 11.1 9.2 13.8
127 13.2 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.848 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:225 Resp: 10648
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.5 75.7

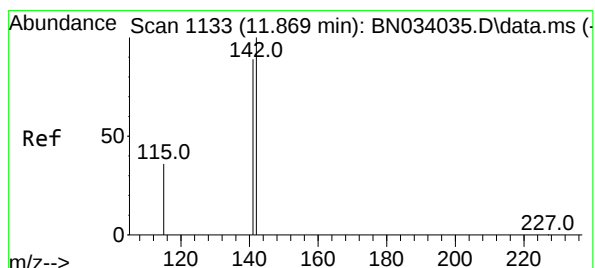
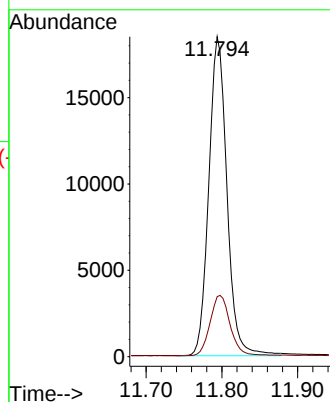
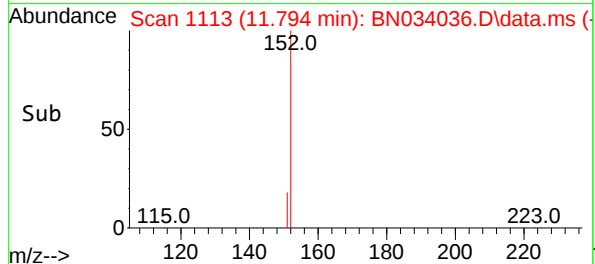
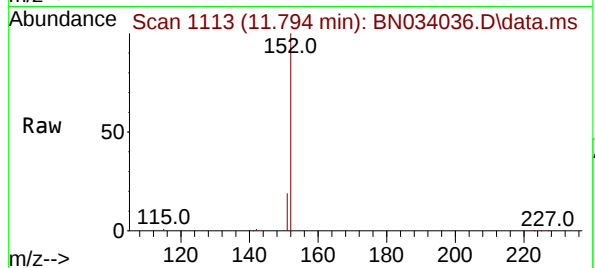




#11
2-Methylnaphthalene-d10
Concen: 0.854 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

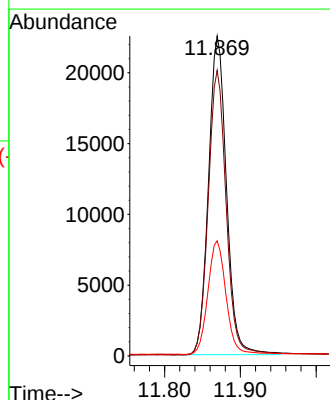
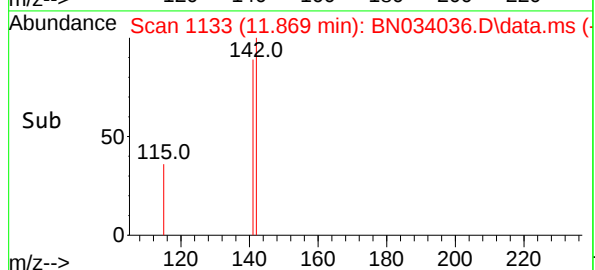
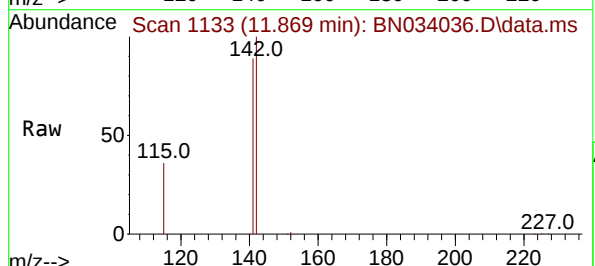
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

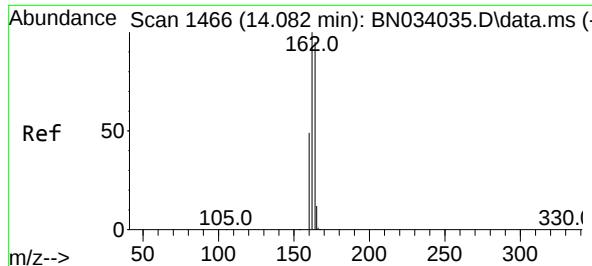
Tgt Ion:152 Resp: 30642
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.854 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:142 Resp: 37074
Ion Ratio Lower Upper
142 100
141 89.2 71.6 107.4
115 36.0 30.0 45.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.082 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

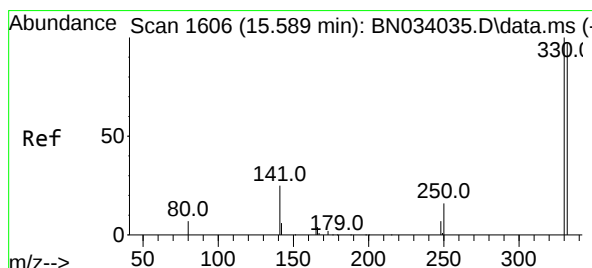
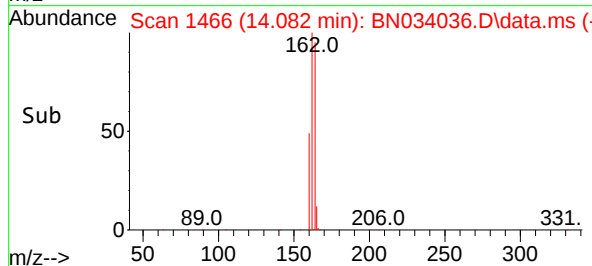
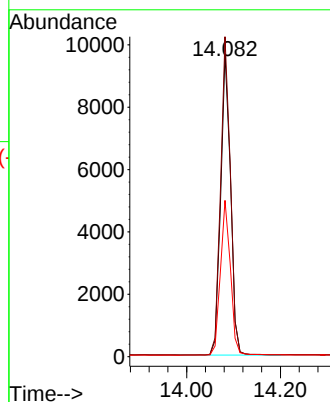
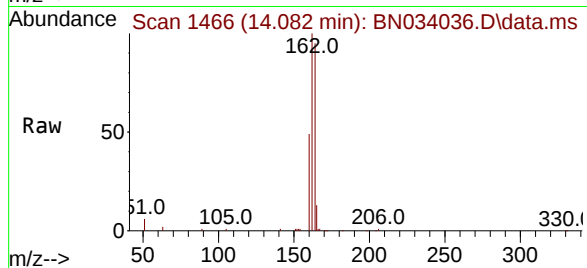
Tgt Ion:164 Resp: 14114

Ion Ratio Lower Upper

164 100

162 105.5 84.2 126.2

160 51.6 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 0.825 ng

RT: 15.589 min Scan# 1606

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

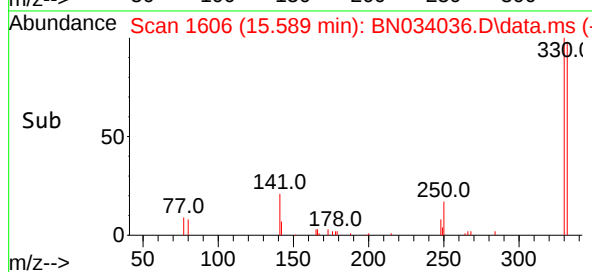
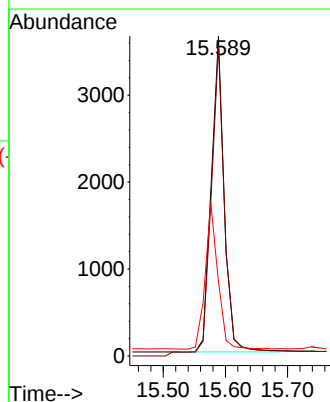
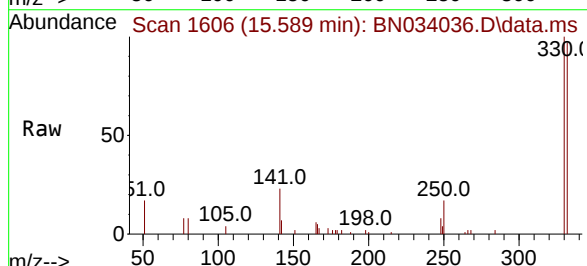
Tgt Ion:330 Resp: 5273

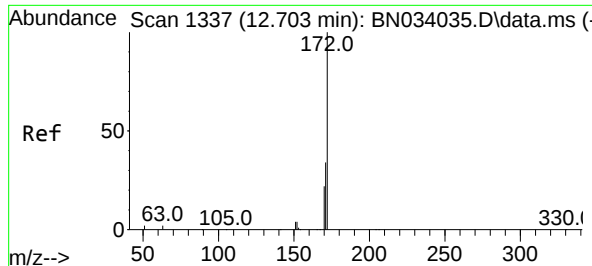
Ion Ratio Lower Upper

330 100

332 96.5 77.4 116.0

141 45.0 35.9 53.9





#15

2-Fluorobiphenyl

Concen: 0.847 ng

RT: 12.692 min Scan# 1336

Delta R.T. -0.011 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

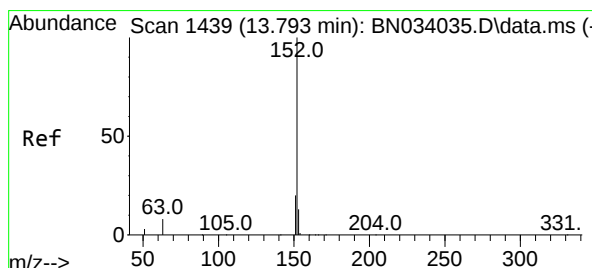
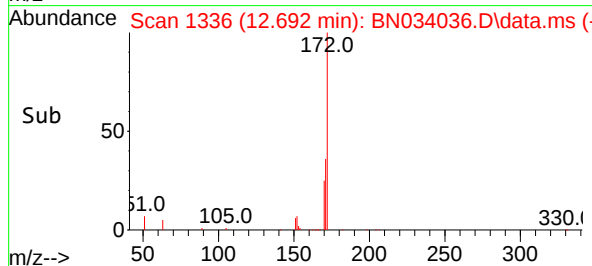
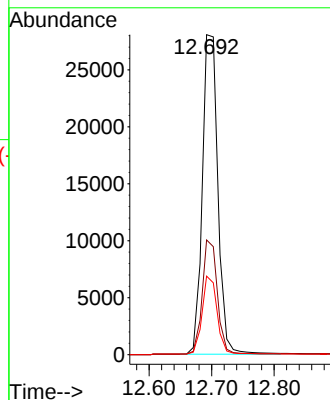
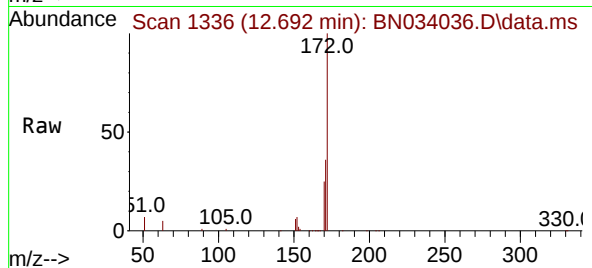
Tgt Ion:172 Resp: 48622

Ion Ratio Lower Upper

172 100

171 35.8 27.3 40.9

170 24.5 18.1 27.1



#16

Acenaphthylene

Concen: 0.843 ng

RT: 13.793 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

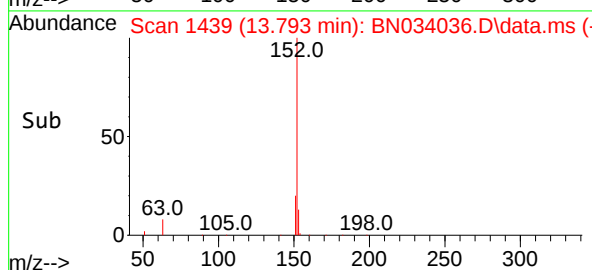
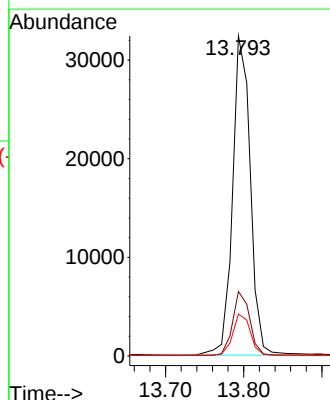
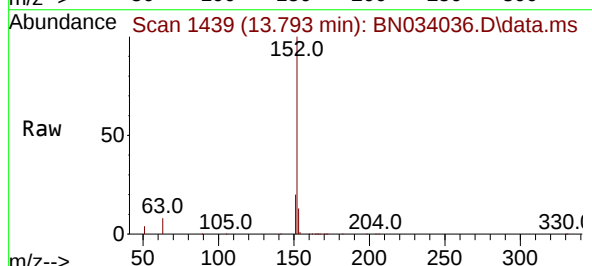
Tgt Ion:152 Resp: 50928

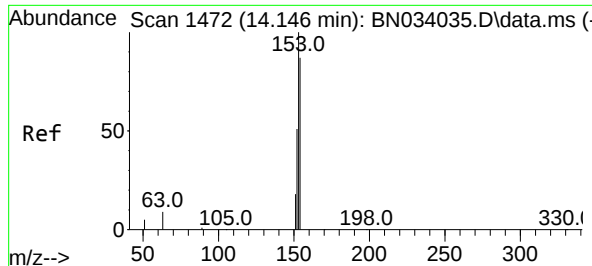
Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.846 ng

RT: 14.146 min Scan# 1472

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

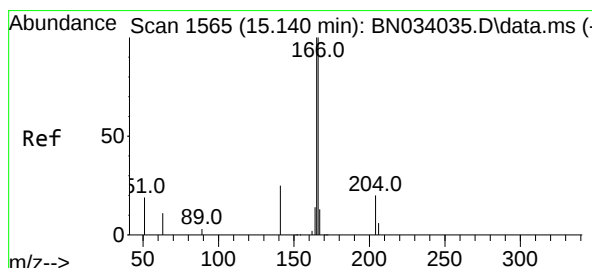
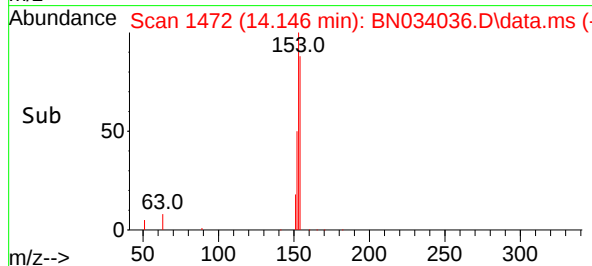
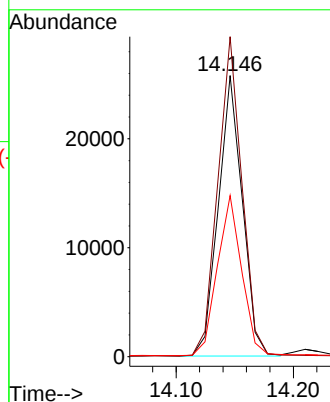
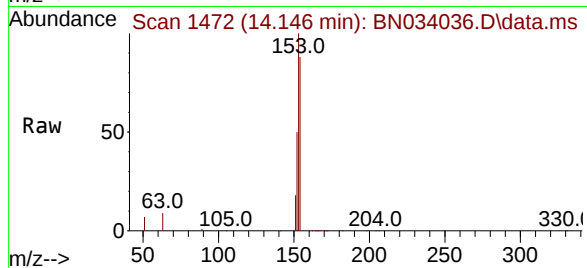
Tgt Ion:154 Resp: 36642

Ion Ratio Lower Upper

154 100

153 114.0 91.6 137.4

152 58.0 47.4 71.2



#18

Fluorene

Concen: 0.846 ng

RT: 15.140 min Scan# 1565

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

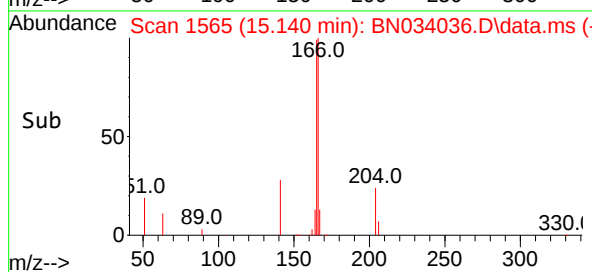
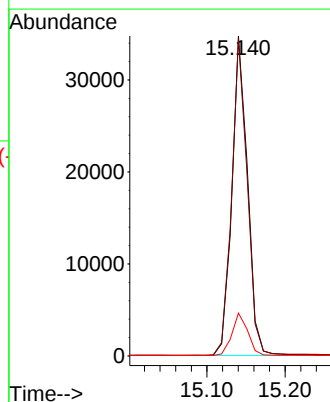
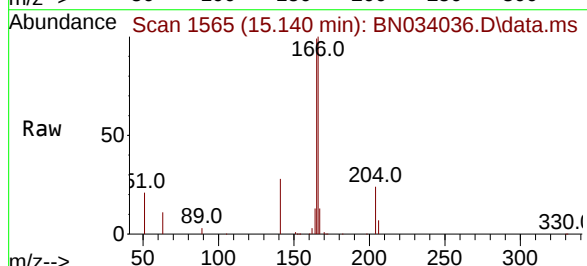
Tgt Ion:166 Resp: 48102

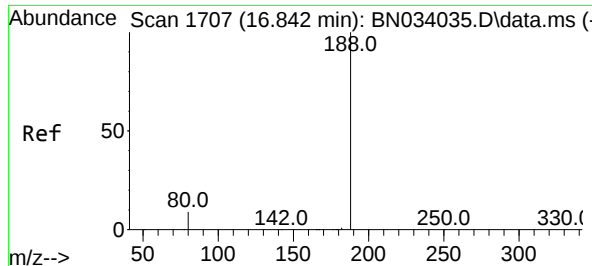
Ion Ratio Lower Upper

166 100

165 98.5 79.1 118.7

167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

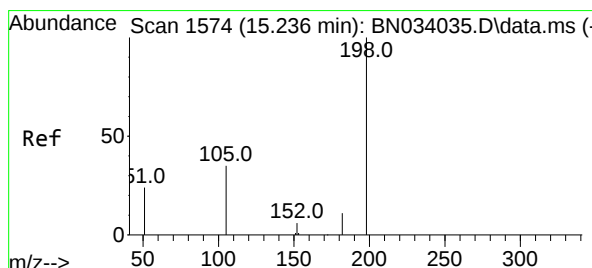
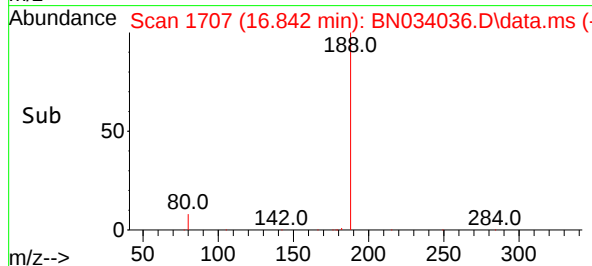
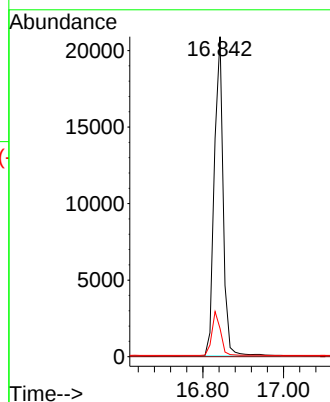
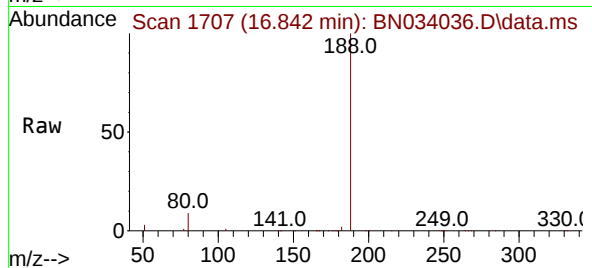
Tgt Ion:188 Resp: 31835

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 7.4 11.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.792 ng

RT: 15.236 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

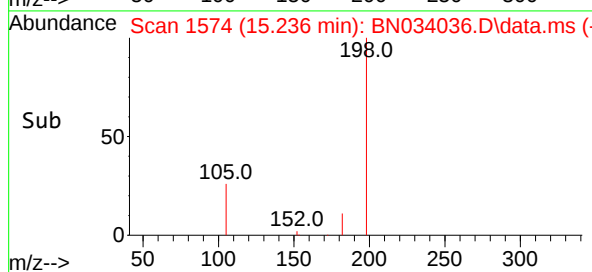
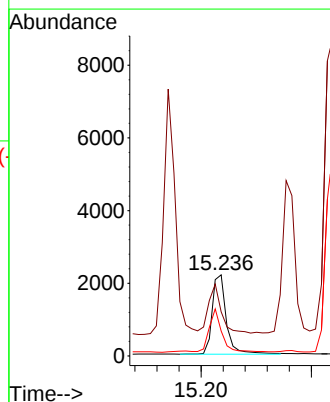
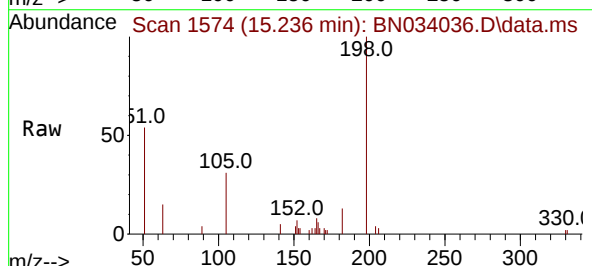
Tgt Ion:198 Resp: 3863

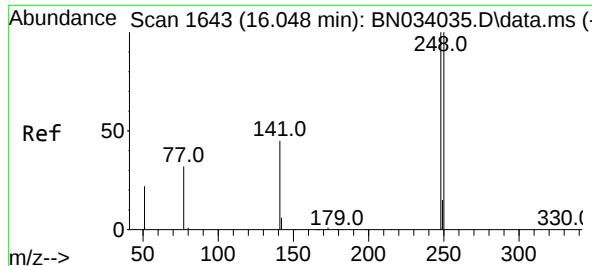
Ion Ratio Lower Upper

198 100

51 54.5 106.4 159.6#

105 30.8 38.5 57.7#

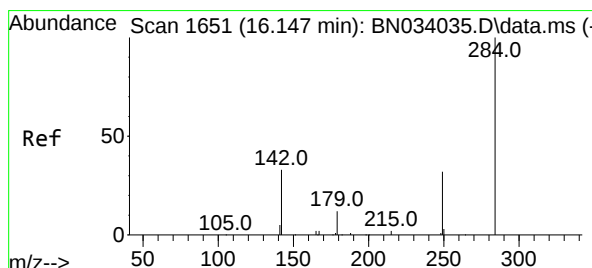
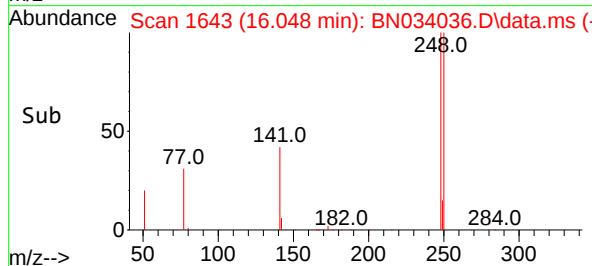
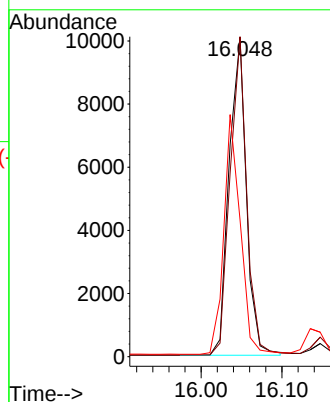
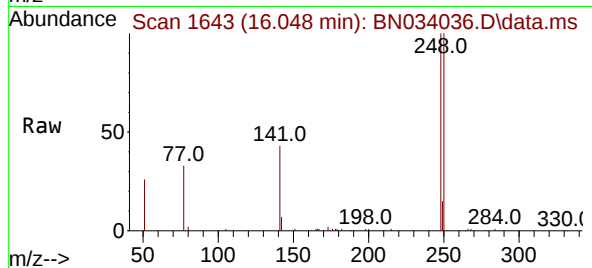




#21
4-Bromophenyl-phenylether
Concen: 0.838 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

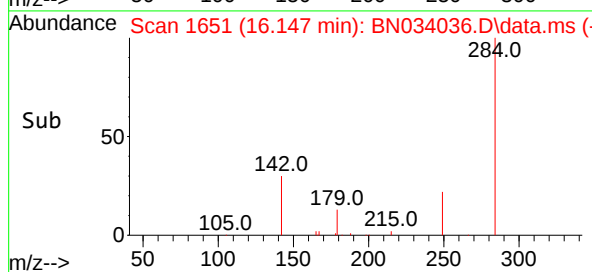
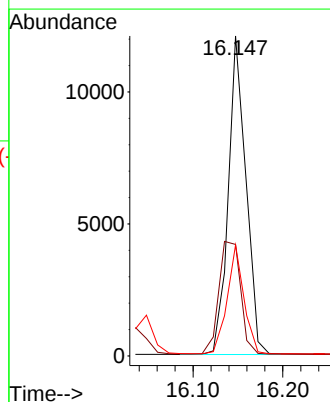
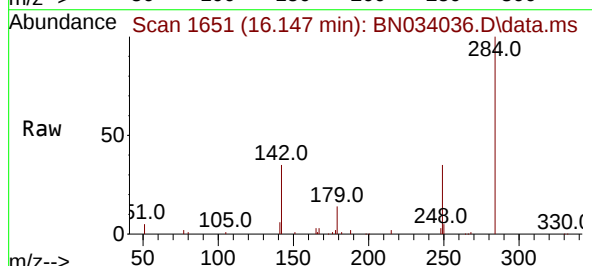
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

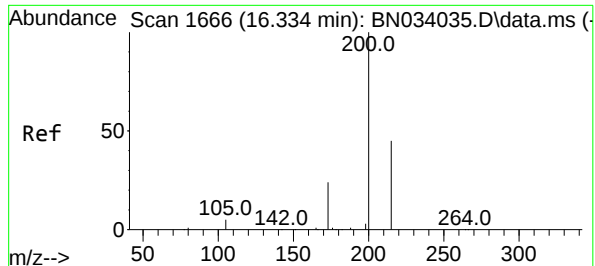
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.5	120.7
141	42.9	37.1	55.7



#22
Hexachlorobenzene
Concen: 0.821 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	43.5	34.5	51.7
249	32.4	25.8	38.6

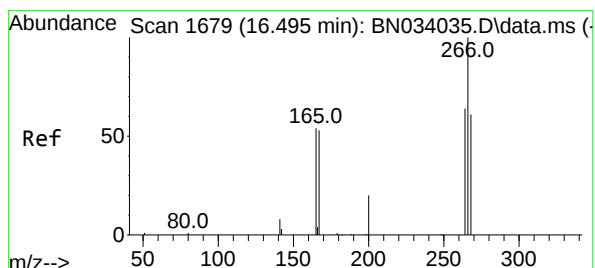
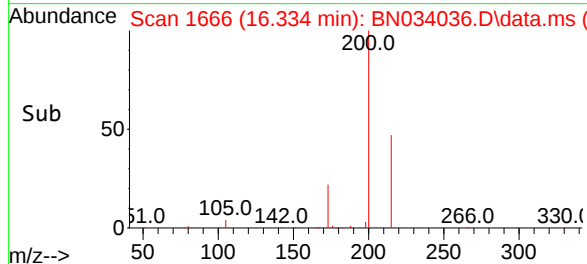
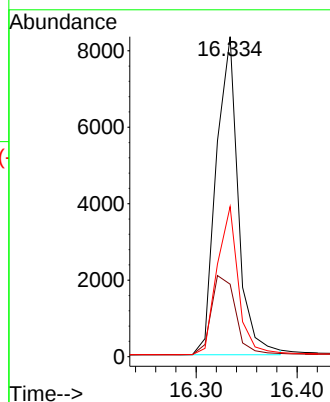
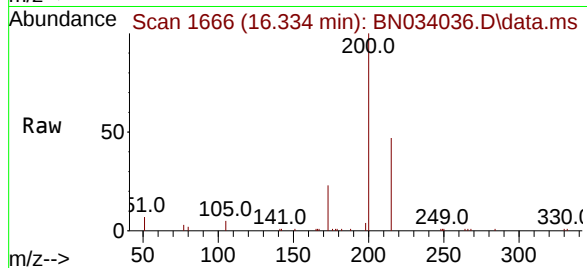




#23
Atrazine
Concen: 0.849 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

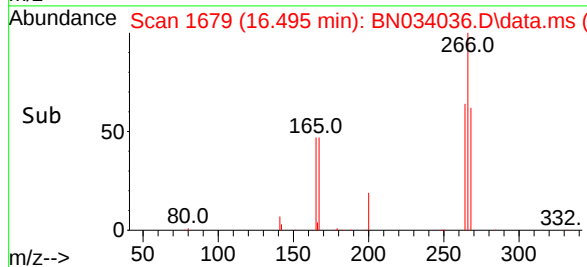
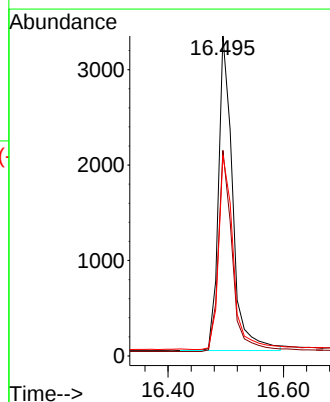
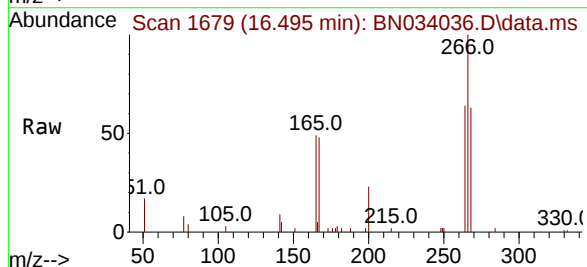
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

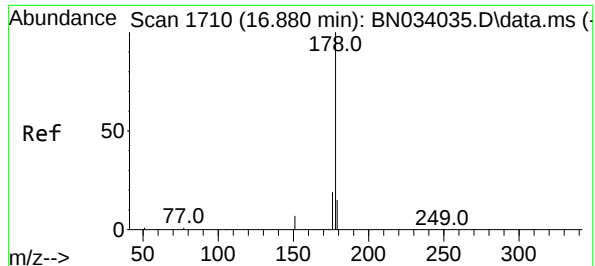
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.6	20.1	30.1
215	46.9	37.0	55.6



#24
Pentachlorophenol
Concen: 0.846 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	50.2	75.2
268	63.8	51.0	76.4

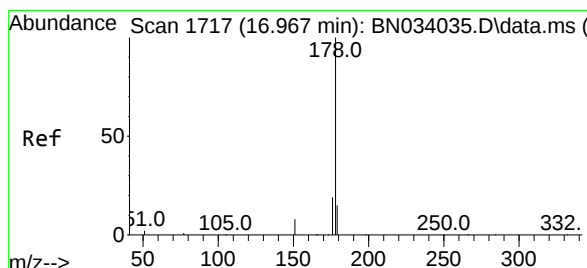
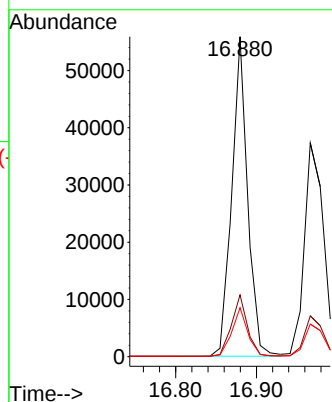
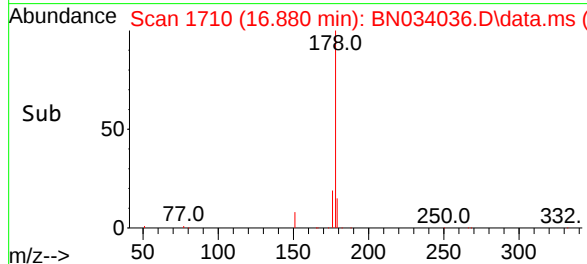
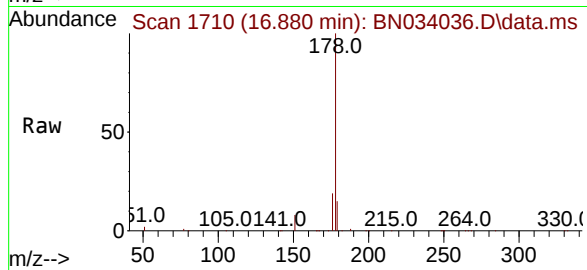




#25
Phenanthrene
Concen: 0.833 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

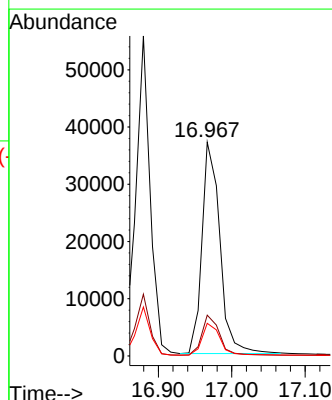
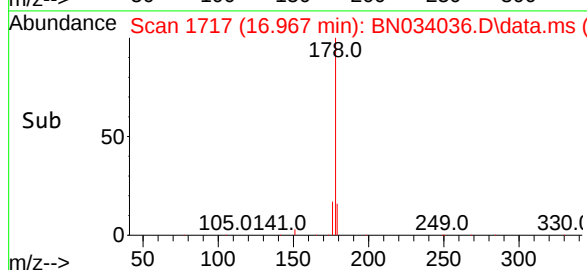
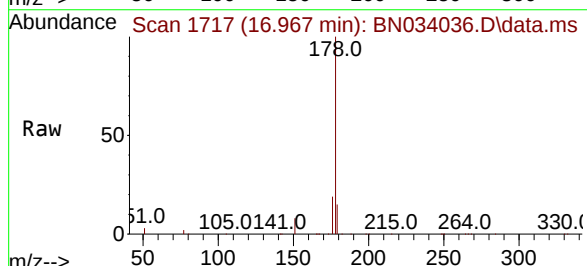
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

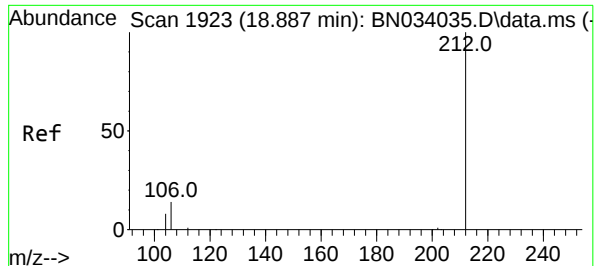
Tgt Ion:178 Resp: 76155
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.1 18.1



#26
Anthracene
Concen: 0.841 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:178 Resp: 62736
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.1 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.840 ng

RT: 18.882 min Scan# 1923

Delta R.T. -0.005 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

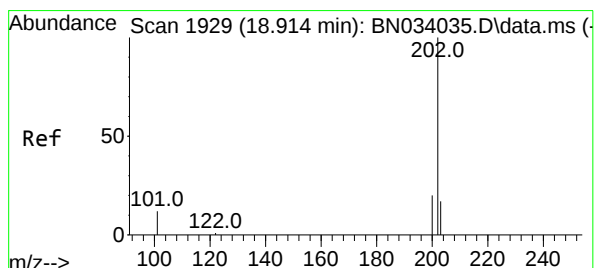
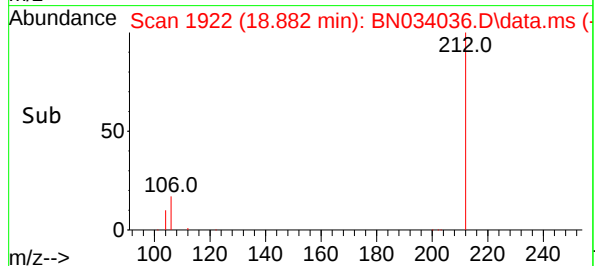
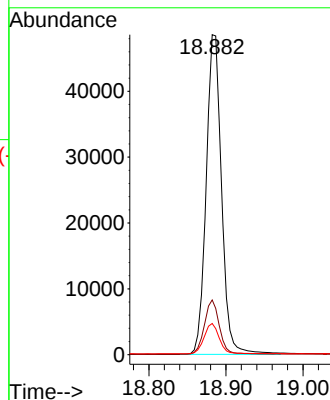
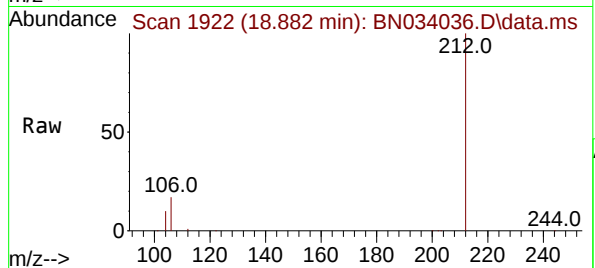
Tgt Ion:212 Resp: 67435

Ion Ratio Lower Upper

212 100

106 16.5 13.4 20.2

104 9.3 7.8 11.6



#28

Fluoranthene

Concen: 0.845 ng

RT: 18.915 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

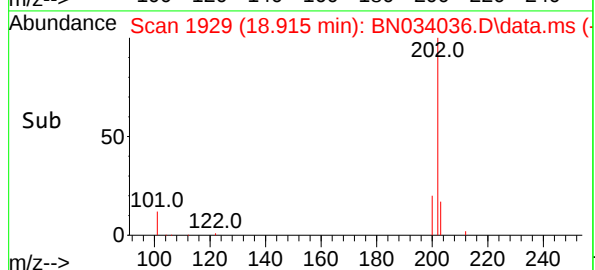
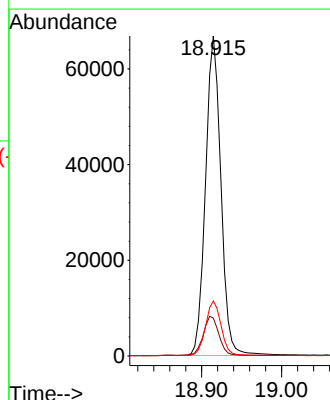
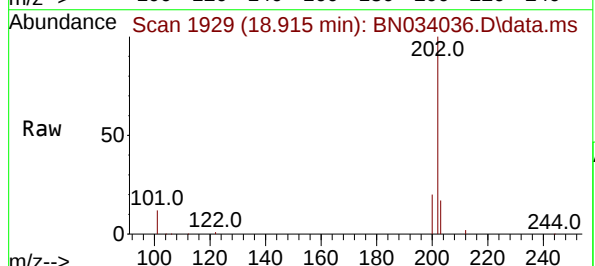
Tgt Ion:202 Resp: 89443

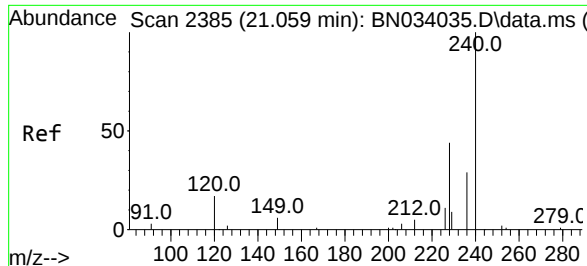
Ion Ratio Lower Upper

202 100

101 12.8 10.1 15.1

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

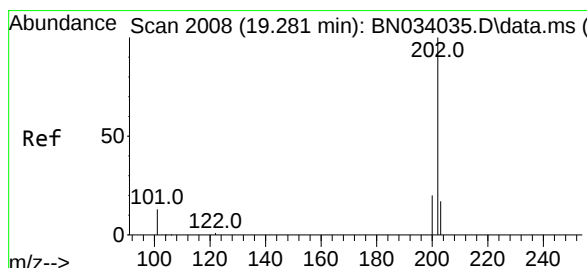
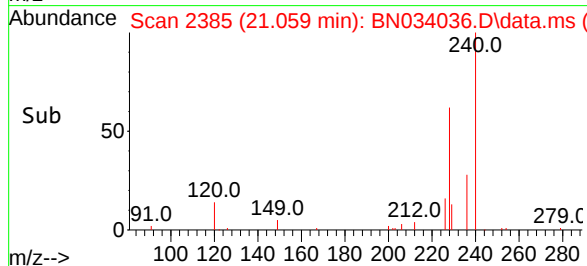
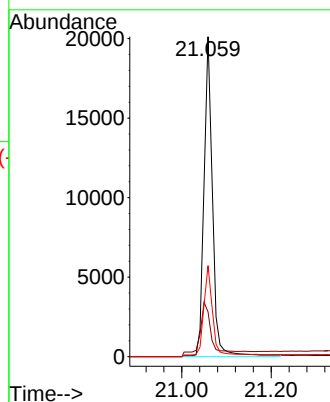
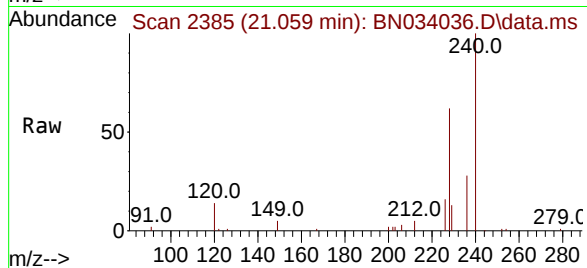
Tgt Ion:240 Resp: 25814

Ion Ratio Lower Upper

240 100

120 14.0 13.5 20.3

236 28.4 23.4 35.0



#30

Pyrene

Concen: 0.836 ng

RT: 19.282 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

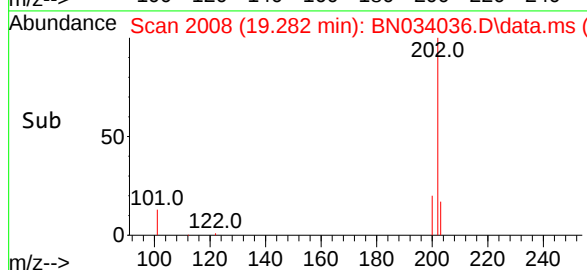
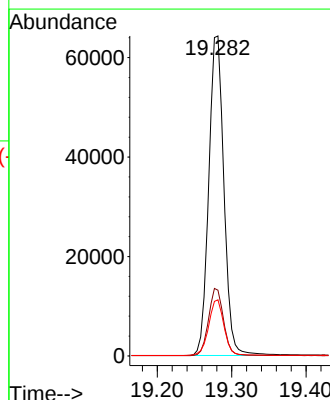
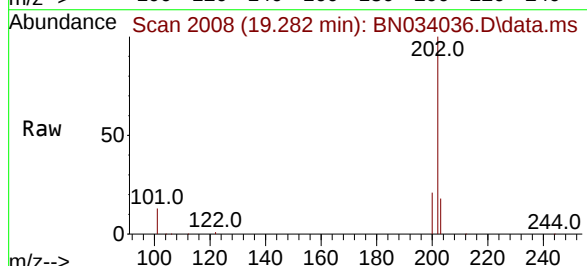
Tgt Ion:202 Resp: 91043

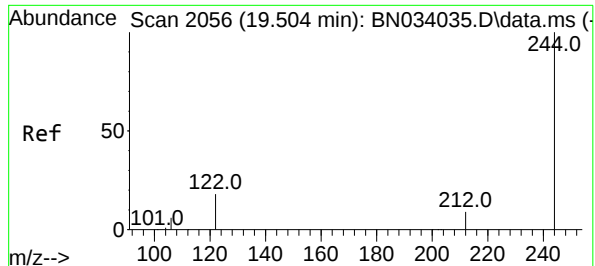
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.7 14.3 21.5

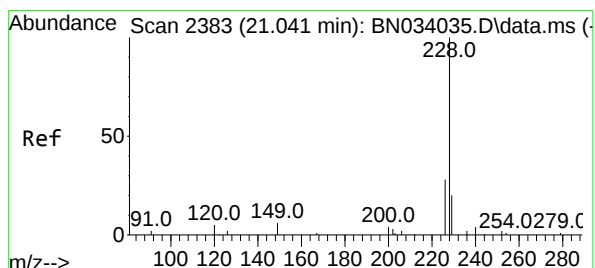
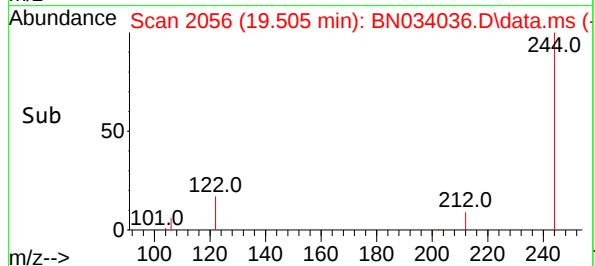
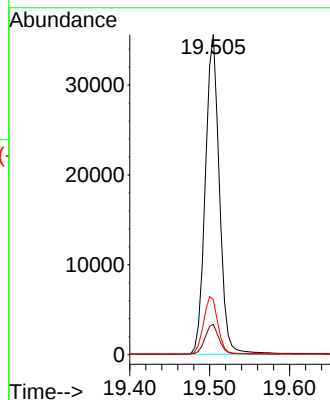
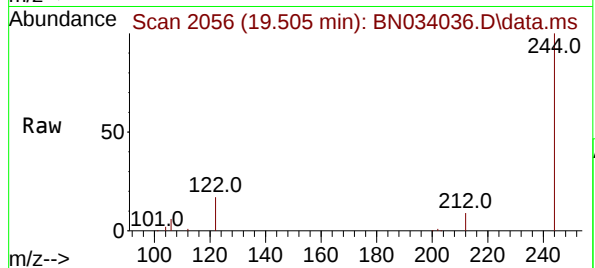




#31
Terphenyl-d14
Concen: 0.843 ng
RT: 19.505 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

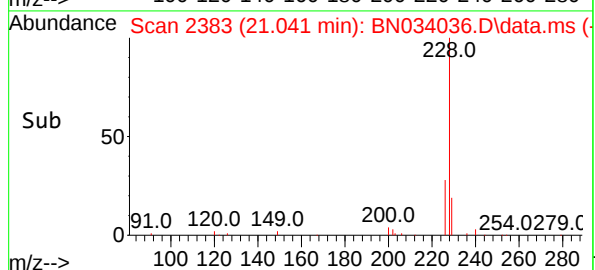
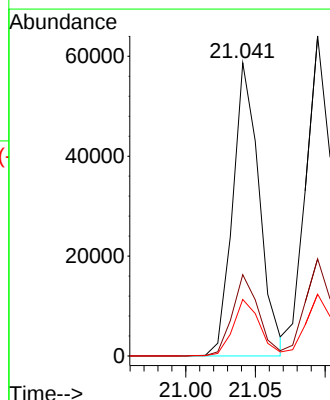
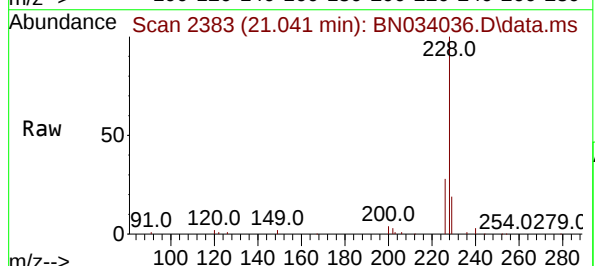
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

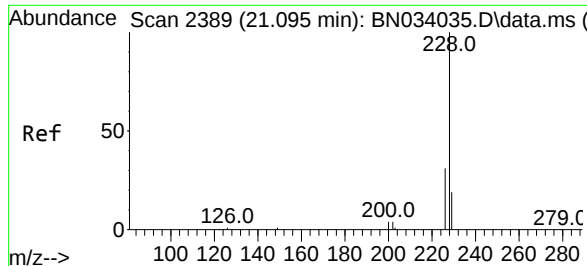
Tgt Ion:244 Resp: 43487
Ion Ratio Lower Upper
244 100
212 9.5 7.8 11.6
122 17.2 14.8 22.2



#32
Benzo(a)anthracene
Concen: 0.849 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:228 Resp: 69334
Ion Ratio Lower Upper
228 100
226 27.8 22.3 33.5
229 19.3 15.7 23.5





#33

Chrysene

Concen: 0.853 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

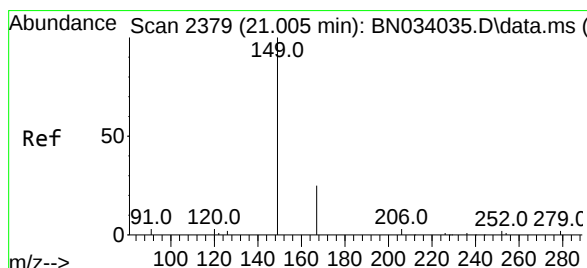
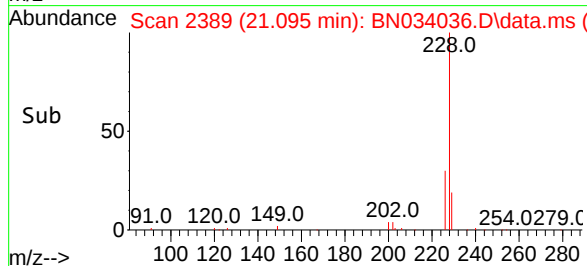
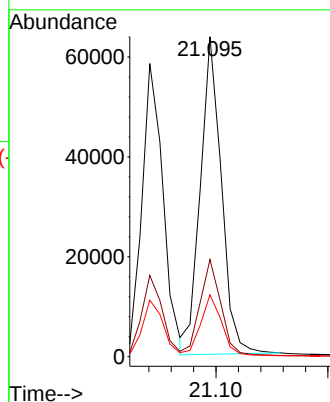
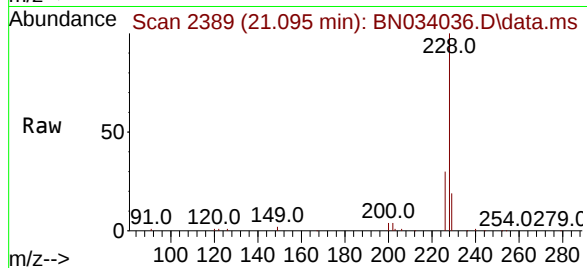
Tgt Ion:228 Resp: 83124

Ion Ratio Lower Upper

228 100

226 30.4 24.6 37.0

229 19.3 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.755 ng

RT: 21.005 min Scan# 2379

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

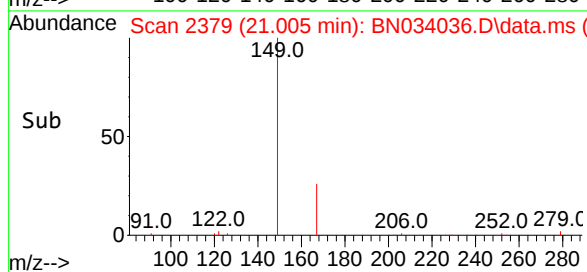
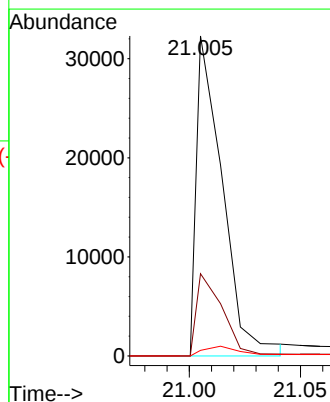
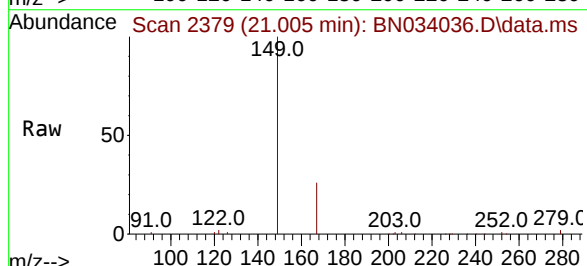
Tgt Ion:149 Resp: 25688

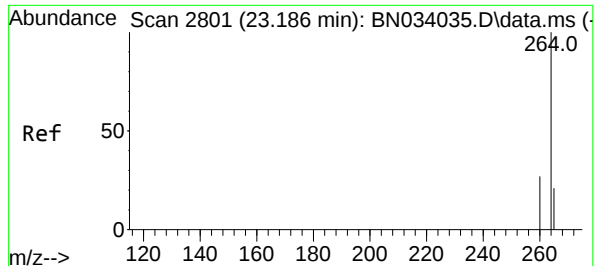
Ion Ratio Lower Upper

149 100

167 25.9 19.9 29.9

279 4.1 4.6 6.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.186 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034036.D

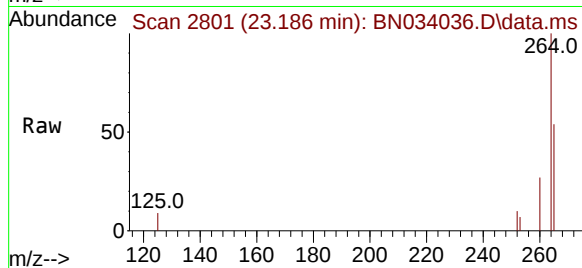
Acq: 18 Sep 2024 13:41

Instrument :

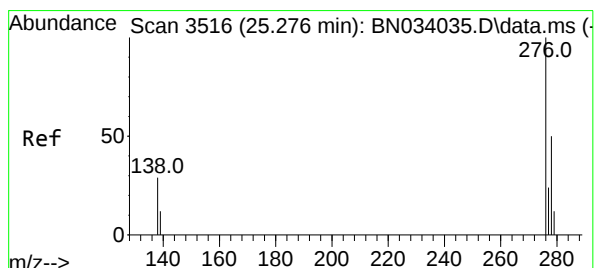
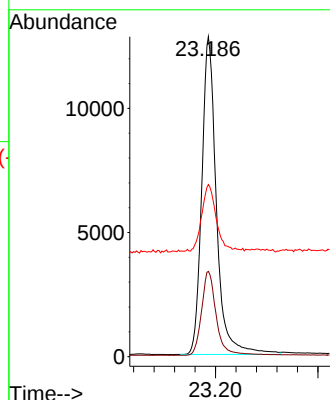
BNA_N

ClientSampleId :

SSTDIC0.8



Tgt Ion:	264	Resp:	25510
Ion Ratio	Lower	Upper	
264	100		
260	26.7	21.7	32.5
265	53.8	52.1	78.1



#36

Indeno(1,2,3-cd)pyrene

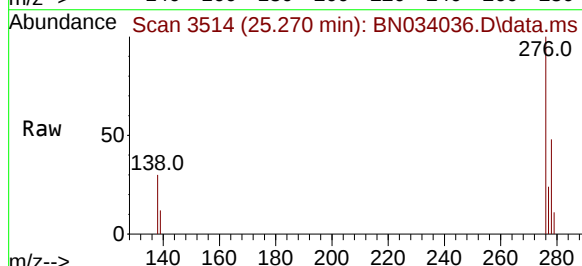
Concen: 0.870 ng

RT: 25.270 min Scan# 3514

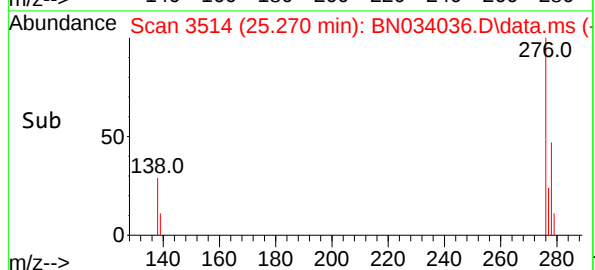
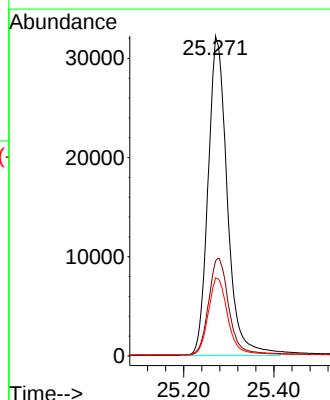
Delta R.T. -0.006 min

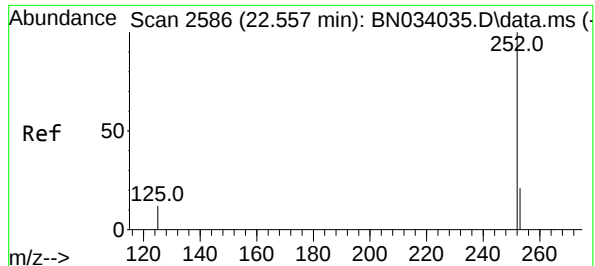
Lab File: BN034036.D

Acq: 18 Sep 2024 13:41



Tgt Ion:	276	Resp:	95053
Ion Ratio	Lower	Upper	
276	100		
138	32.0	25.9	38.9
277	24.7	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.830 ng

RT: 22.557 min Scan# 2586

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

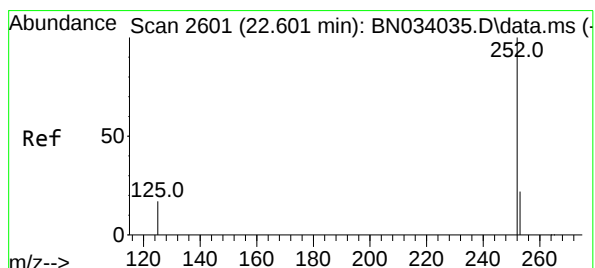
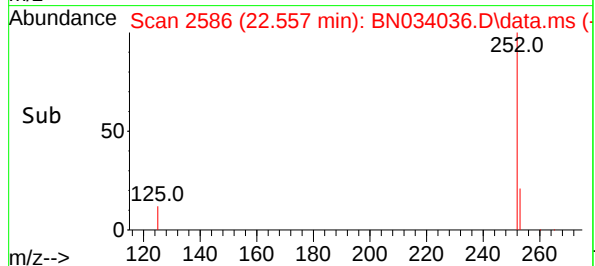
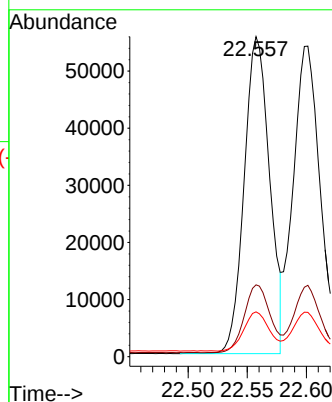
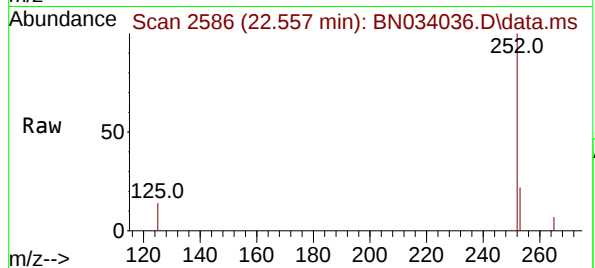
Tgt Ion:252 Resp: 82914

Ion Ratio Lower Upper

252 100

253 22.5 19.6 29.4

125 14.0 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.849 ng

RT: 22.601 min Scan# 2601

Delta R.T. 0.000 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

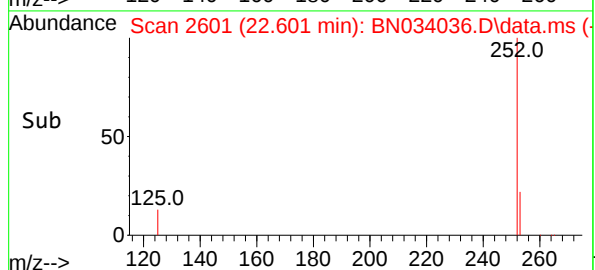
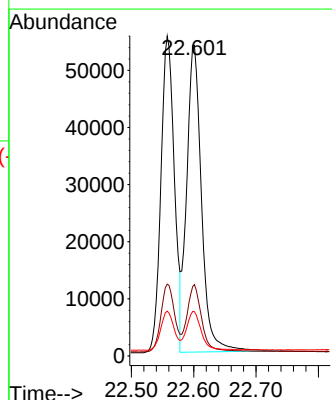
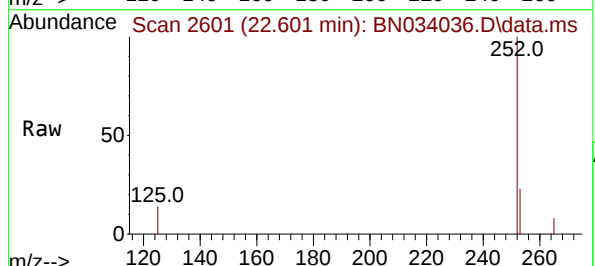
Tgt Ion:252 Resp: 89093

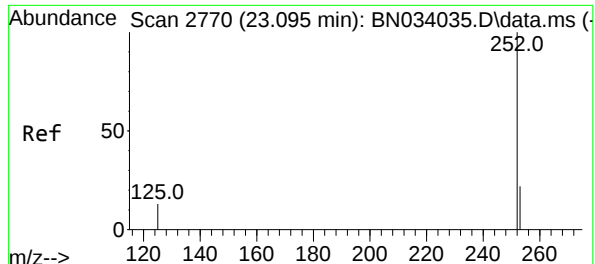
Ion Ratio Lower Upper

252 100

253 23.0 20.1 30.1

125 14.3 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 0.837 ng

RT: 23.092 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

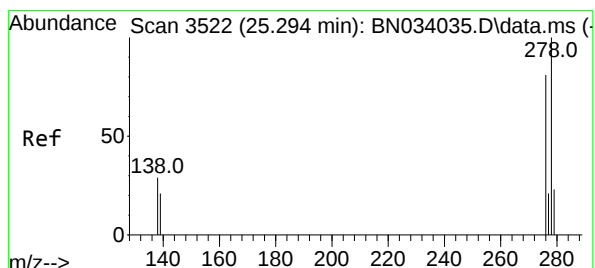
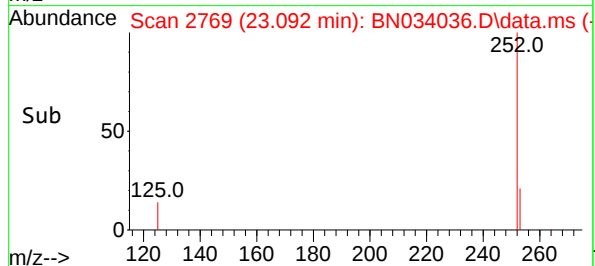
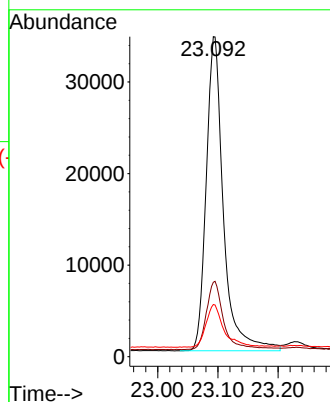
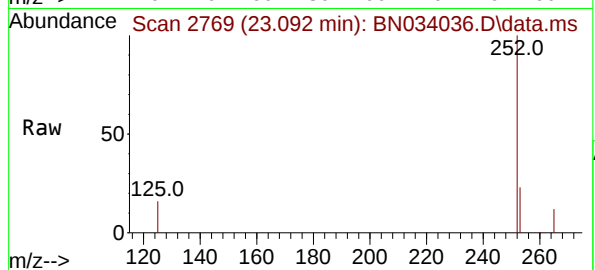
Tgt Ion:252 Resp: 68137

Ion Ratio Lower Upper

252 100

253 23.3 21.8 32.8

125 16.3 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.876 ng

RT: 25.288 min Scan# 3520

Delta R.T. -0.006 min

Lab File: BN034036.D

Acq: 18 Sep 2024 13:41

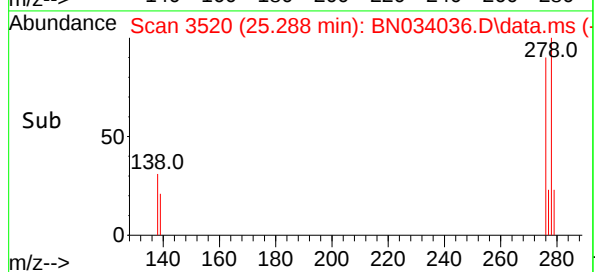
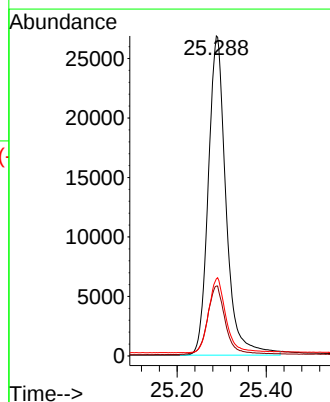
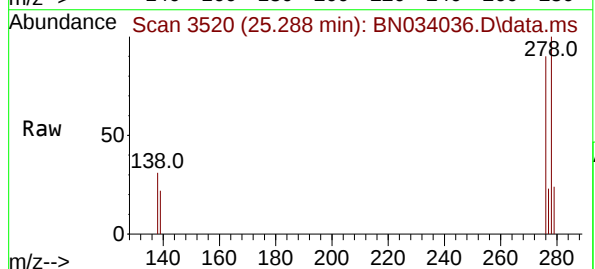
Tgt Ion:278 Resp: 74377

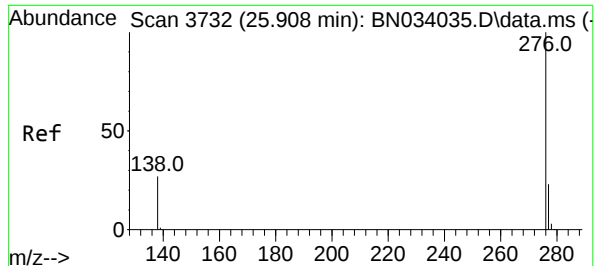
Ion Ratio Lower Upper

278 100

139 21.8 17.8 26.8

279 24.1 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.860 ng

RT: 25.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034036.D

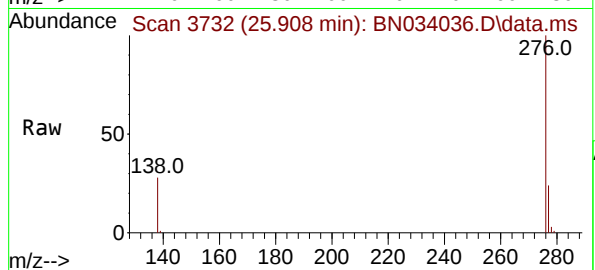
Acq: 18 Sep 2024 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



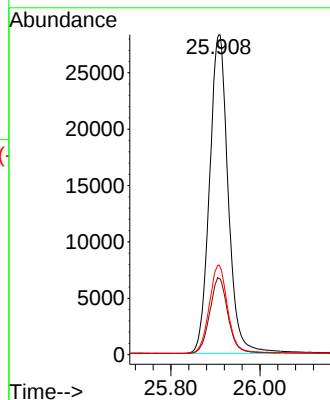
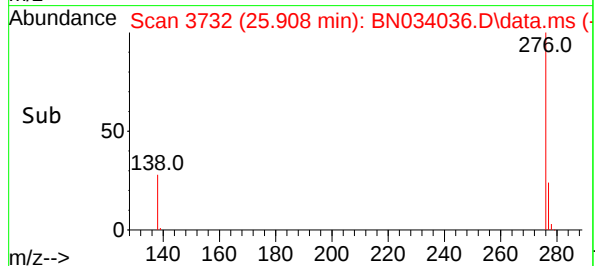
Tgt Ion:276 Resp: 82049

Ion Ratio Lower Upper

276 100

277 23.8 19.3 28.9

138 28.0 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034037.D
 Acq On : 18 Sep 2024 14:17
 Operator : JU/RC
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 18 16:15:21 2024
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

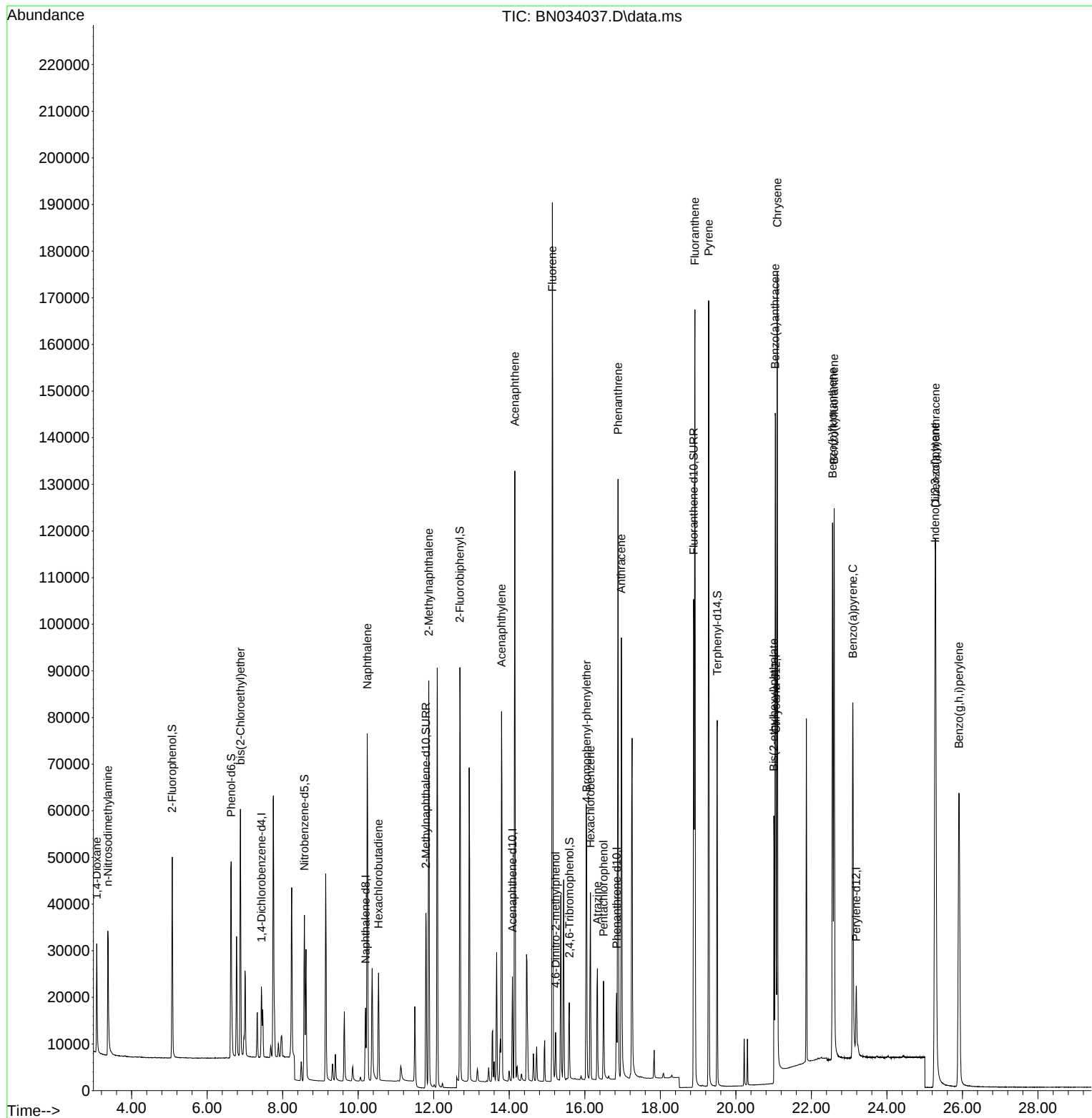
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	7111	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	20316	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	11808	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	26045	0.400	ng	0.00
29) Chrysene-d12	21.059	240	21614	0.400	ng	0.00
35) Perylene-d12	23.186	264	19600	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	32667	1.619	ng	0.00
5) Phenol-d6	6.635	99	39860	1.698	ng	0.00
8) Nitrobenzene-d5	8.574	82	27285	1.756	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	50974	1.699	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	9079	1.697	ng	0.00
15) 2-Fluorobiphenyl	12.692	172	79979	1.665	ng	-0.01
27) Fluoranthene-d10	18.882	212	109826	1.671	ng	0.00
31) Terphenyl-d14	19.505	244	70948	1.644	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.074	88	13871	1.560	ng	92
3) n-Nitrosodimethylamine	3.371	42	17236	1.703	ng	# 96
6) bis(2-Chloroethyl)ether	6.881	93	34796	1.675	ng	99
9) Naphthalene	10.240	128	93335	1.674	ng	99
10) Hexachlorobutadiene	10.539	225	17309	1.648	ng	# 100
12) 2-Methylnaphthalene	11.869	142	61705	1.701	ng	98
16) Acenaphthylene	13.793	152	87178	1.725	ng	100
17) Acenaphthene	14.146	154	60082	1.657	ng	99
18) Fluorene	15.140	166	79821	1.678	ng	99
20) 4,6-Dinitro-2-methylph...	15.226	198	6762	1.537	ng	# 58
21) 4-Bromophenyl-phenylether	16.048	248	24600	1.680	ng	96
22) Hexachlorobenzene	16.147	284	27375	1.668	ng	99
23) Atrazine	16.334	200	20513	1.691	ng	98
24) Pentachlorophenol	16.495	266	9892	1.822	ng	99
25) Phenanthrene	16.880	178	124101	1.659	ng	100
26) Anthracene	16.967	178	105007	1.720	ng	99
28) Fluoranthene	18.915	202	147270	1.700	ng	100
30) Pyrene	19.277	202	148059	1.623	ng	100
32) Benzo(a)anthracene	21.041	228	112646	1.647	ng	99
33) Chrysene	21.095	228	134824	1.653	ng	99
34) Bis(2-ethylhexyl)phtha...	21.005	149	39500	1.387	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.273	276	138960	1.655	ng	99
37) Benzo(b)fluoranthene	22.560	252	132911	1.731	ng	# 94
38) Benzo(k)fluoranthene	22.601	252	137998	1.712	ng	# 90
39) Benzo(a)pyrene	23.095	252	107316	1.715	ng	# 89
40) Dibenzo(a,h)anthracene	25.288	278	108998	1.671	ng	97
41) Benzo(g,h,i)perylene	25.908	276	120262	1.641	ng	99

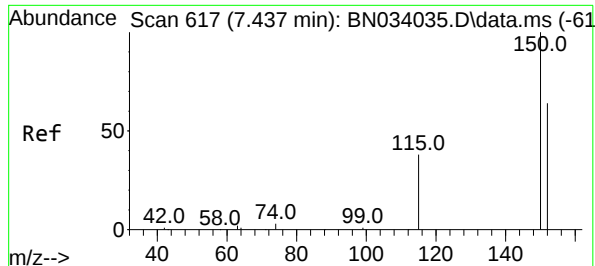
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Data File : BN034037.D
Acq On : 18 Sep 2024 14:17
Operator : JU/RC
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 18 16:15:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

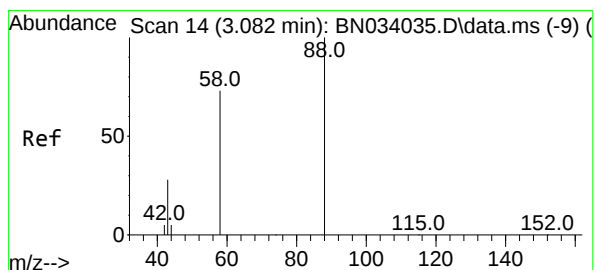
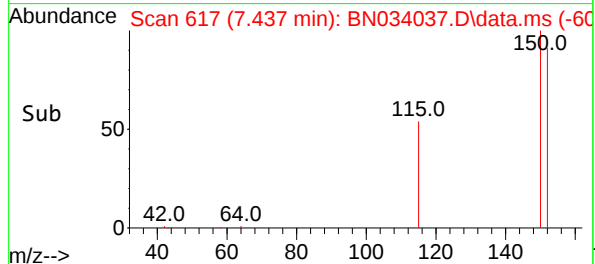
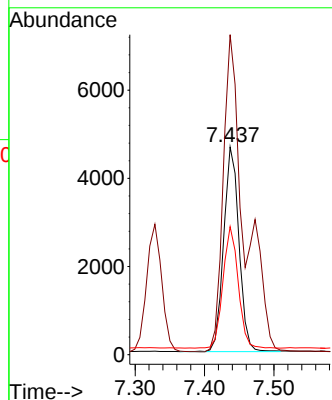
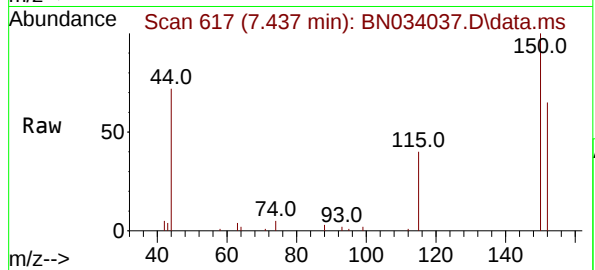




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

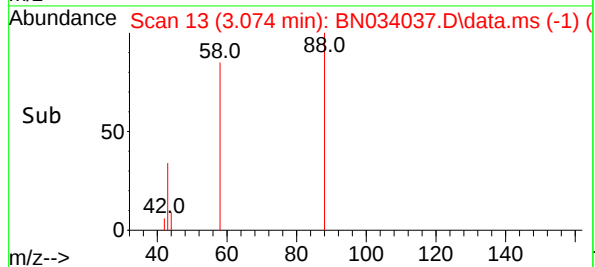
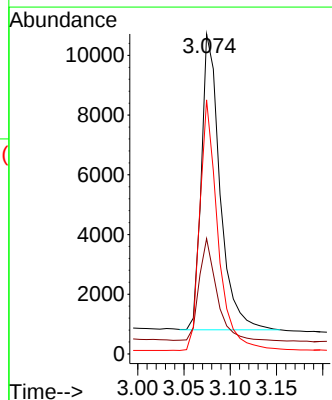
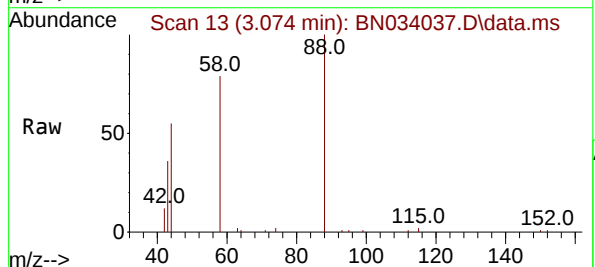
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BNA_N
ClientSampleId :
SSTDICC1.6

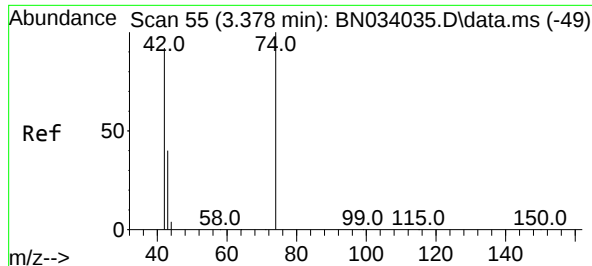
Tgt Ion:152 Resp: 7111
Ion Ratio Lower Upper
152 100
150 154.1 124.6 187.0
115 61.7 50.0 75.0



#2
1,4-Dioxane
Concen: 1.560 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 88 Resp: 13871
Ion Ratio Lower Upper
88 100
43 33.0 25.8 38.8
58 82.1 58.8 88.2

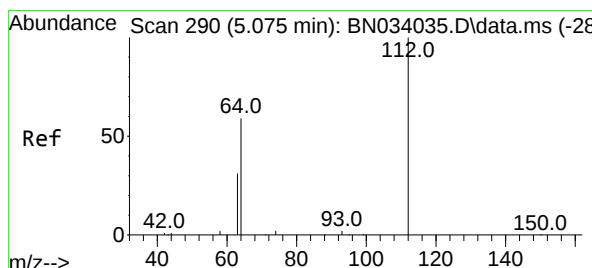
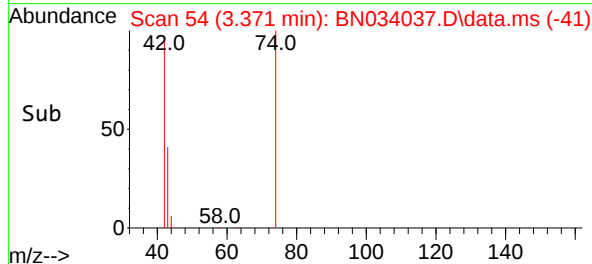
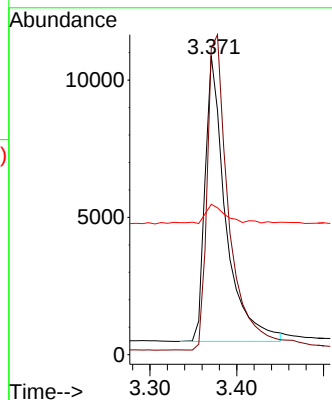
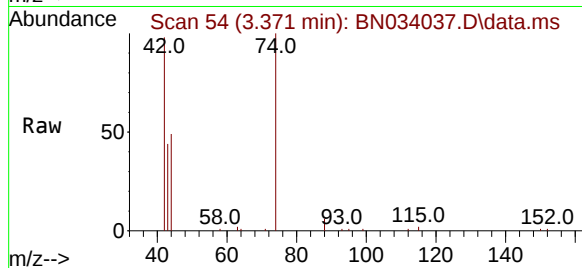




#3
n-Nitrosodimethylamine
Concen: 1.703 ng
RT: 3.371 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

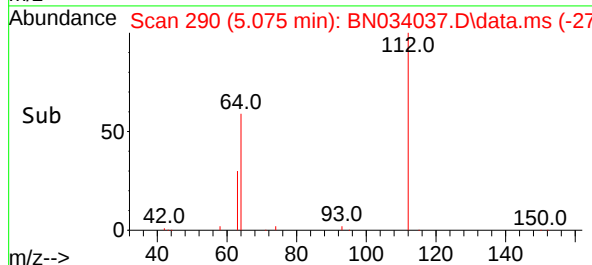
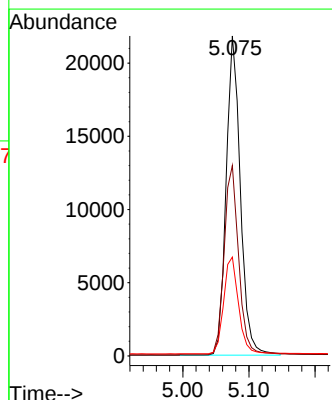
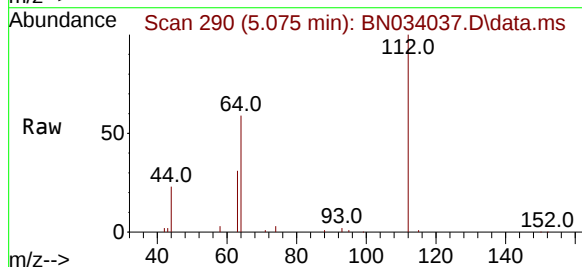
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

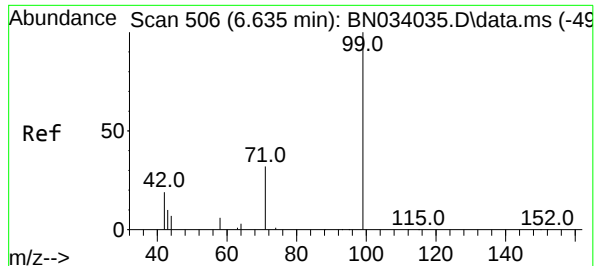
Tgt Ion: 42 Resp: 17236
Ion Ratio Lower Upper
42 100
74 116.4 94.6 142.0
44 6.3 12.4 18.6#



#4
2-Fluorophenol
Concen: 1.619 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 112 Resp: 32667
Ion Ratio Lower Upper
112 100
64 60.7 48.6 72.8
63 31.6 25.6 38.4

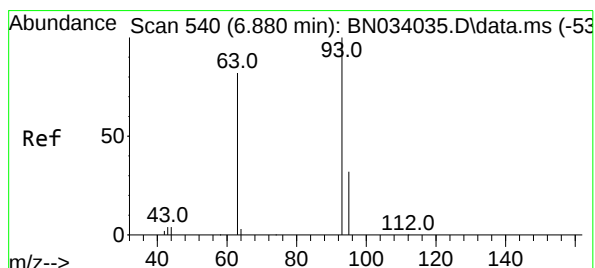
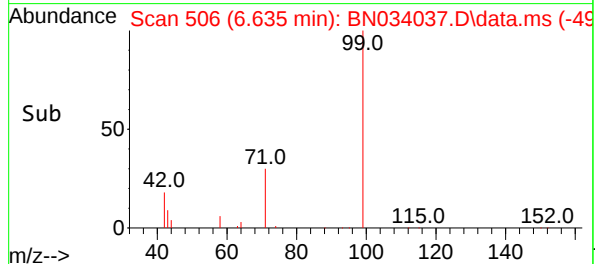
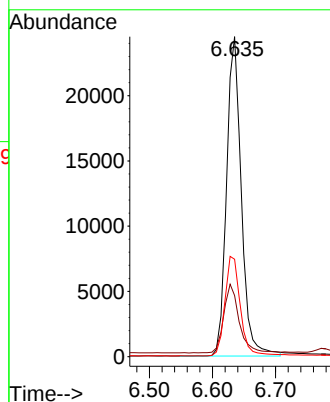
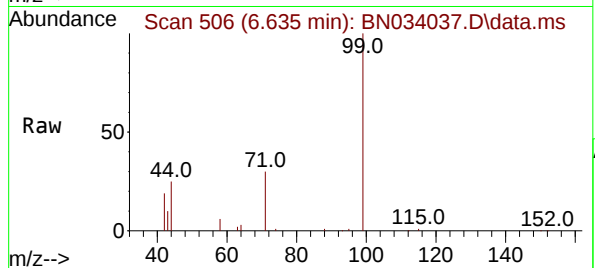




#5
Phenol-d6
Concen: 1.698 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

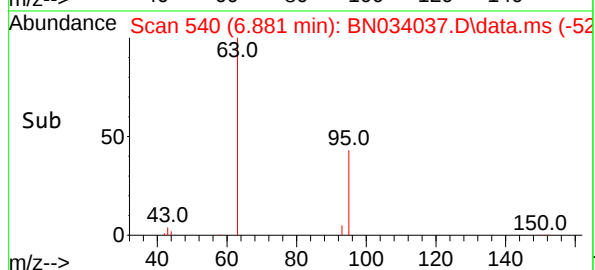
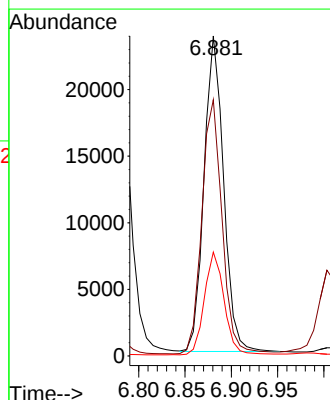
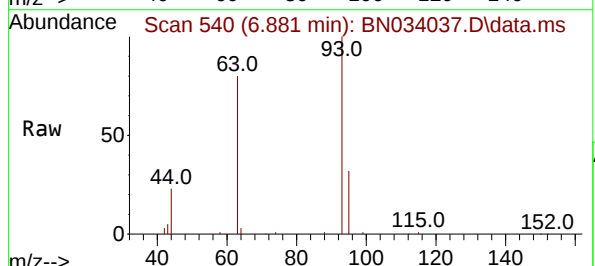
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

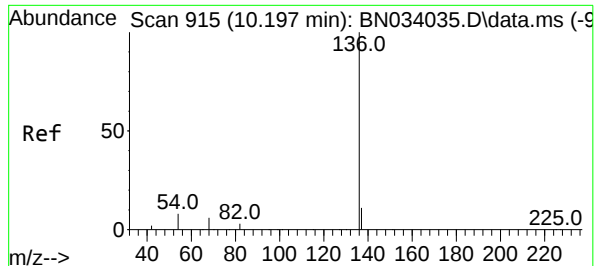
Tgt Ion: 99 Resp: 39860
Ion Ratio Lower Upper
99 100
42 22.6 17.8 26.8
71 32.4 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 1.675 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 93 Resp: 34796
Ion Ratio Lower Upper
93 100
63 83.4 67.3 100.9
95 32.9 26.8 40.2

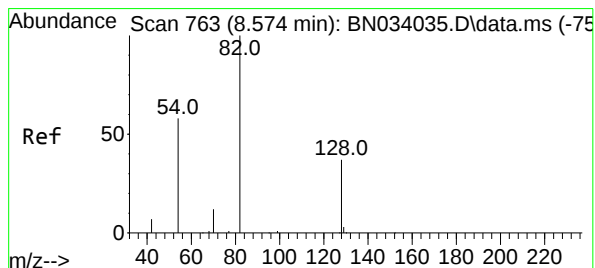
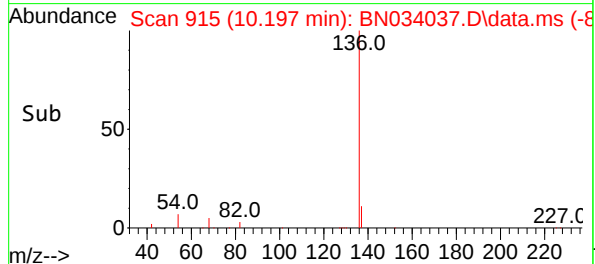
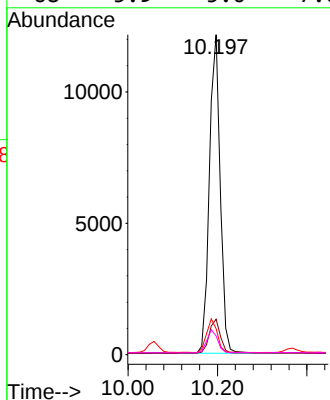
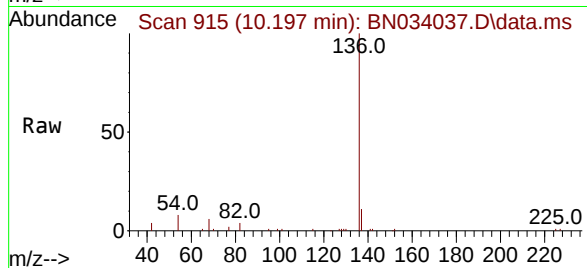




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

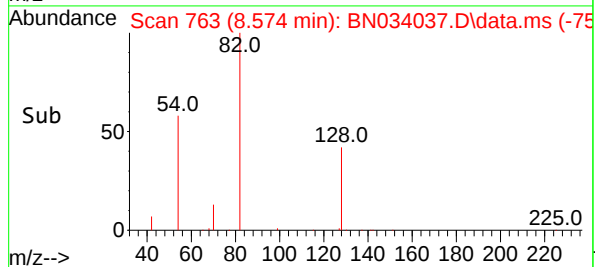
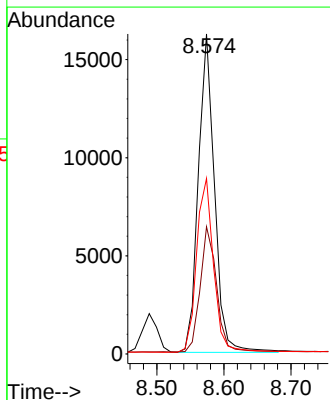
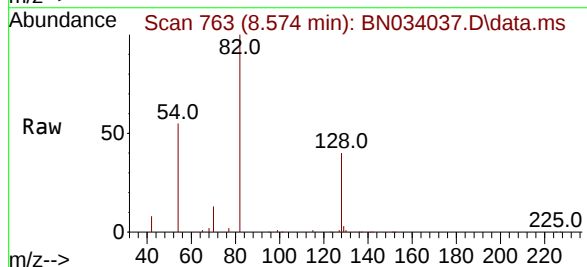
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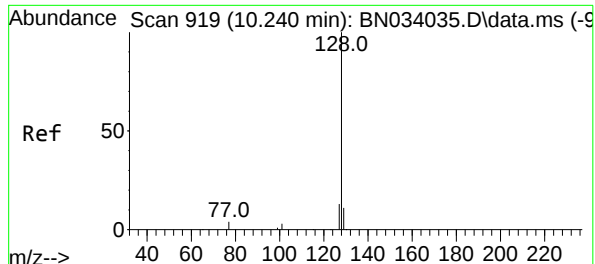
Tgt Ion:	136	Resp:	20316
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.1	6.8	10.2
68	5.9	5.0	7.6



#8
Nitrobenzene-d5
Concen: 1.756 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:	82	Resp:	27285
Ion	Ratio	Lower	Upper
82	100		
128	39.8	31.4	47.2
54	54.8	47.4	71.0





#9
Naphthalene

Concen: 1.674 ng

RT: 10.240 min Scan# 919

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

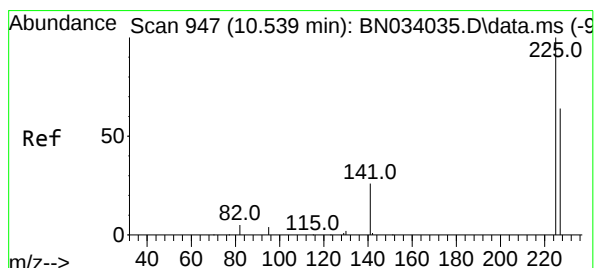
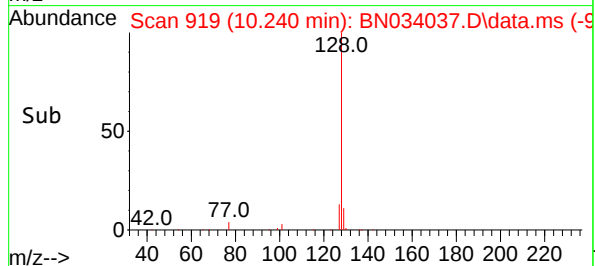
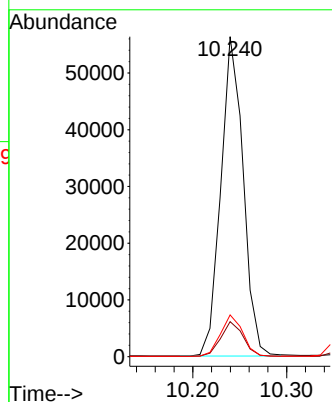
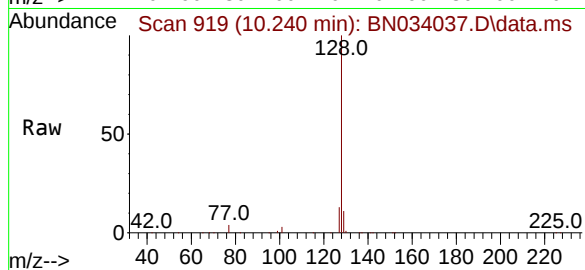
Tgt Ion:128 Resp: 93335

Ion Ratio Lower Upper

128 100

129 10.9 9.2 13.8

127 13.0 10.7 16.1



#10

Hexachlorobutadiene

Concen: 1.648 ng

RT: 10.539 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

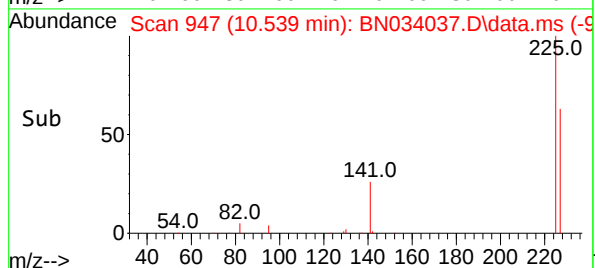
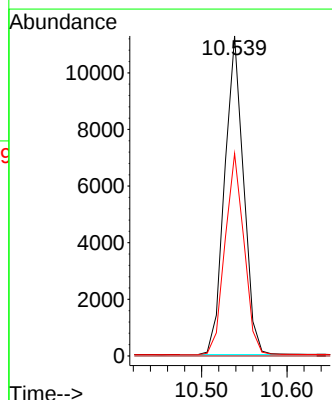
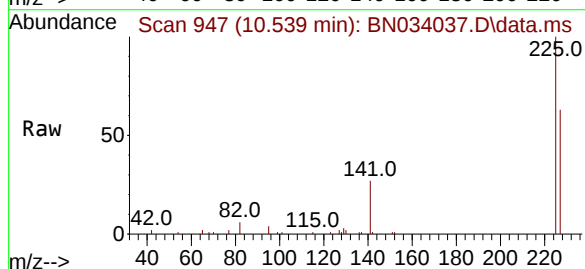
Tgt Ion:225 Resp: 17309

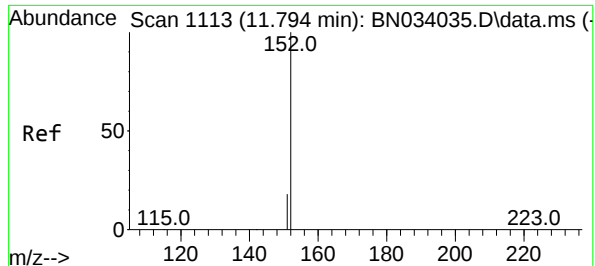
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 50.5 75.7

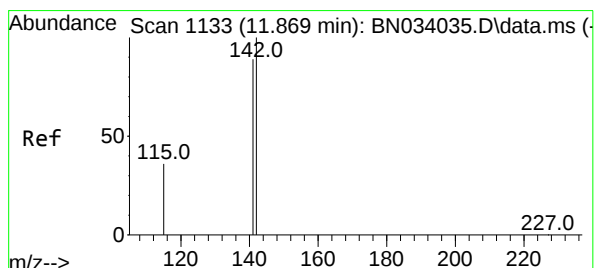
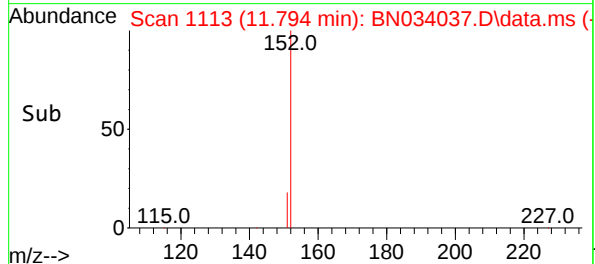
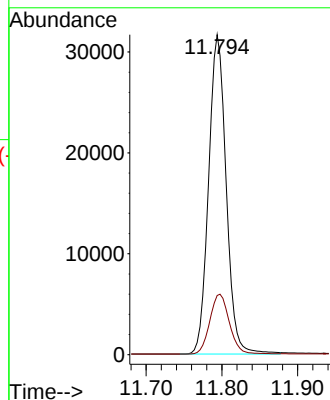
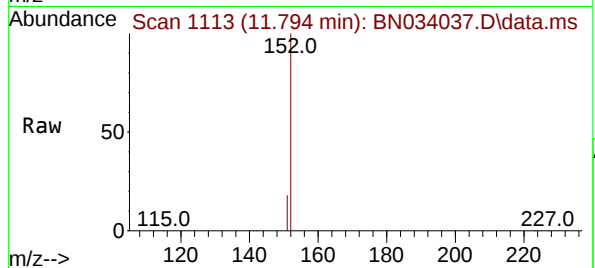




#11
2-Methylnaphthalene-d10
Concen: 1.699 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

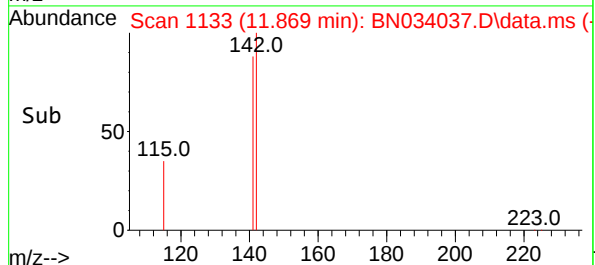
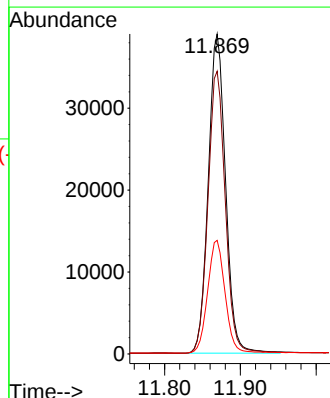
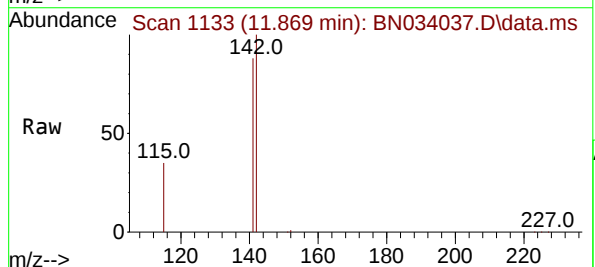
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

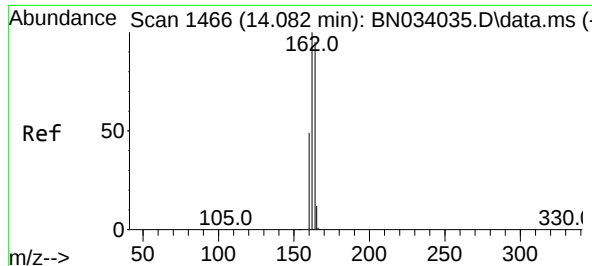
Tgt Ion:152 Resp: 50974
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 1.701 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:142 Resp: 61705
Ion Ratio Lower Upper
142 100
141 88.3 71.6 107.4
115 35.5 30.0 45.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.082 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

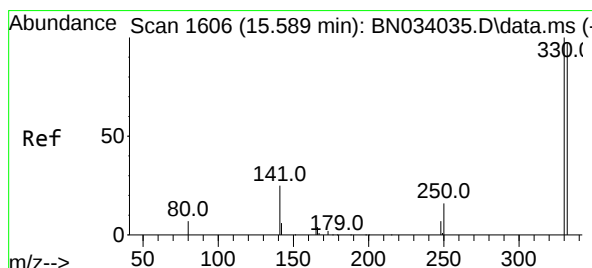
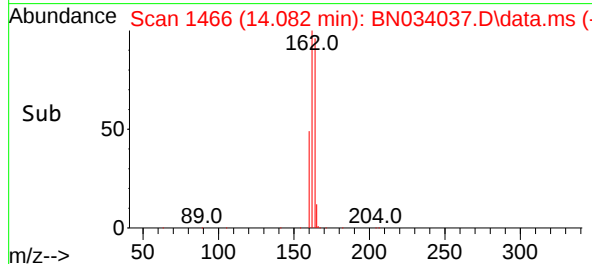
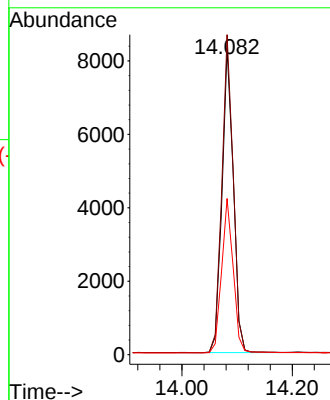
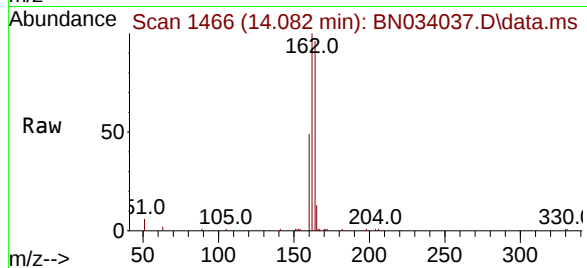
Tgt Ion:164 Resp: 11808

Ion Ratio Lower Upper

164 100

162 104.4 84.2 126.2

160 51.0 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 1.697 ng

RT: 15.589 min Scan# 1606

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

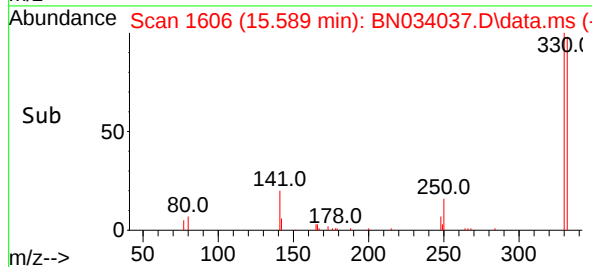
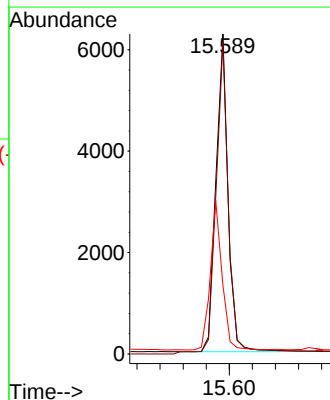
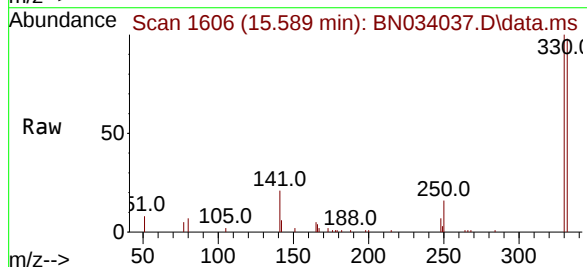
Tgt Ion:330 Resp: 9079

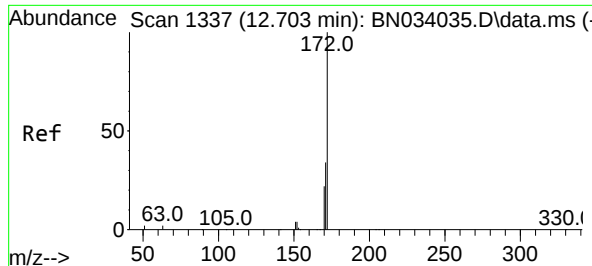
Ion Ratio Lower Upper

330 100

332 96.3 77.4 116.0

141 45.8 35.9 53.9





#15

2-Fluorobiphenyl

Concen: 1.665 ng

RT: 12.692 min Scan# 1336

Delta R.T. -0.011 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

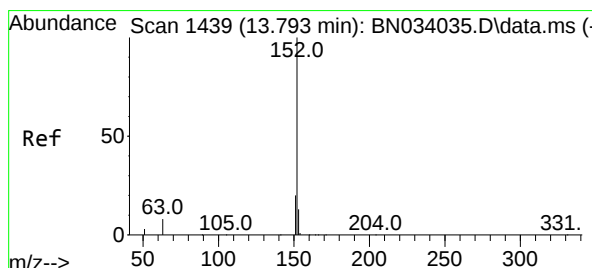
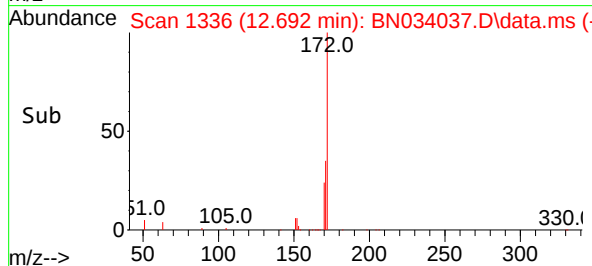
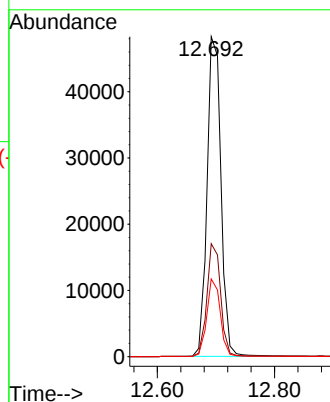
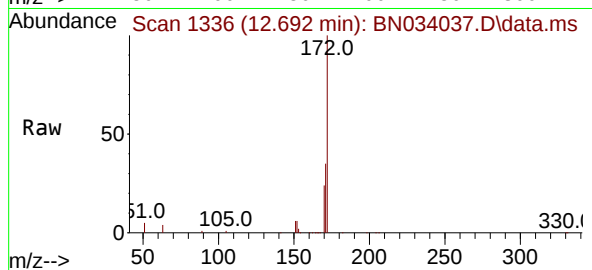
Tgt Ion:172 Resp: 79979

Ion Ratio Lower Upper

172 100

171 35.3 27.3 40.9

170 24.3 18.1 27.1



#16

Acenaphthylene

Concen: 1.725 ng

RT: 13.793 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

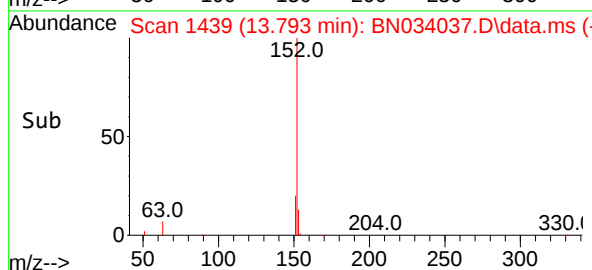
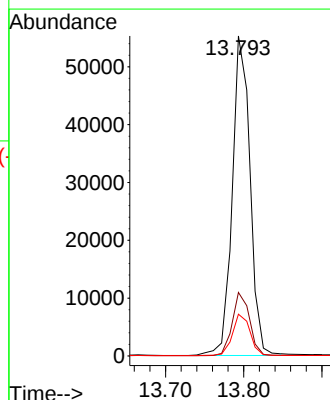
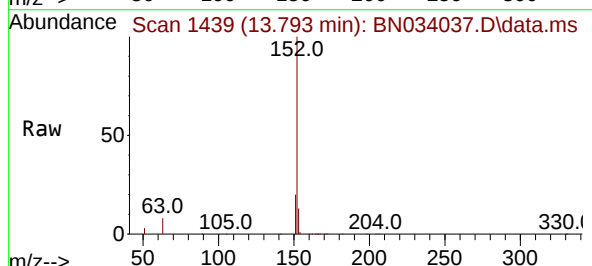
Tgt Ion:152 Resp: 87178

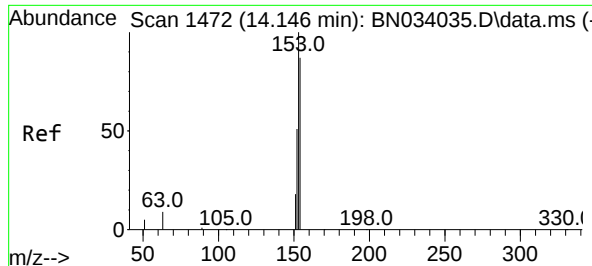
Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

153 12.9 10.3 15.5

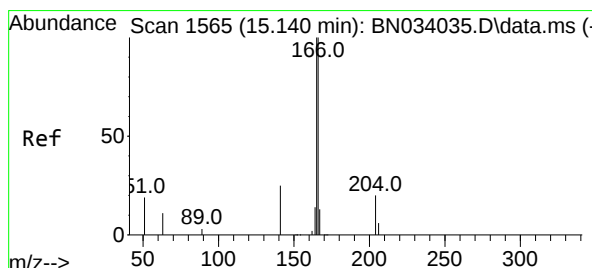
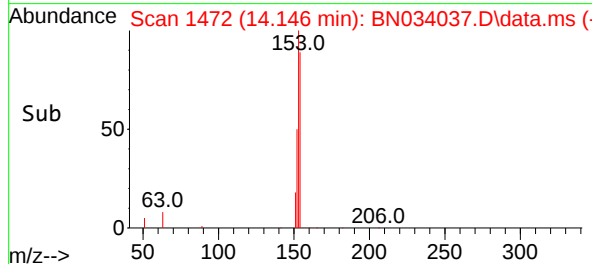
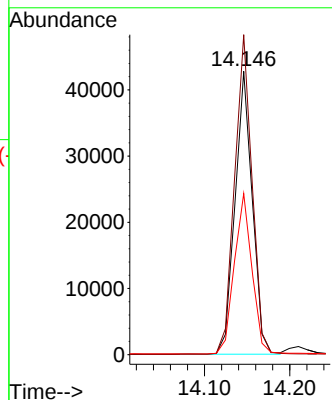
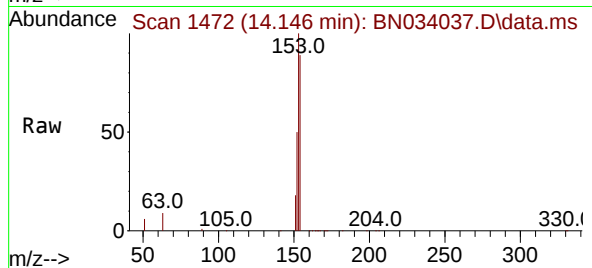




#17
Acenaphthene
Concen: 1.657 ng
RT: 14.146 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

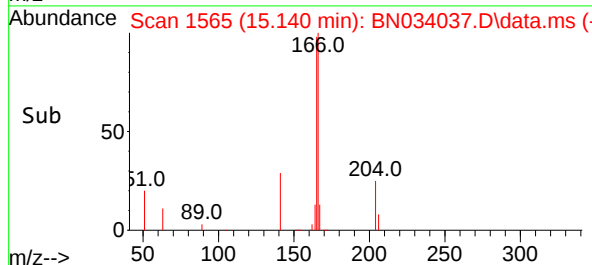
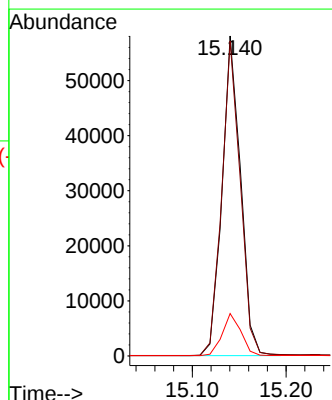
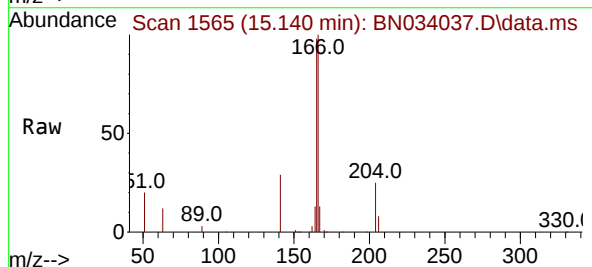
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

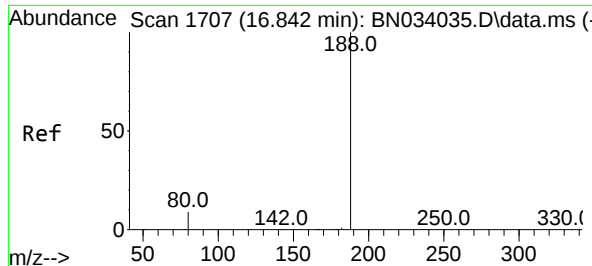
Tgt Ion:154 Resp: 60082
Ion Ratio Lower Upper
154 100
153 114.1 91.6 137.4
152 58.0 47.4 71.2



#18
Fluorene
Concen: 1.678 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:166 Resp: 79821
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

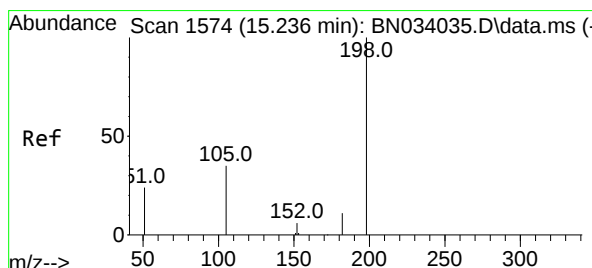
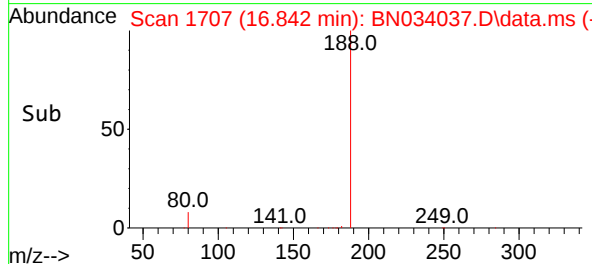
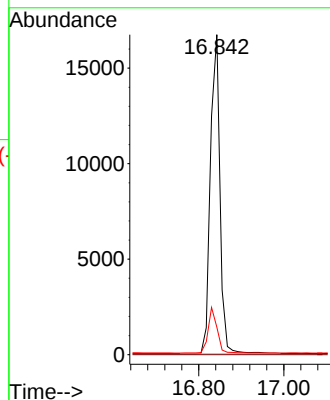
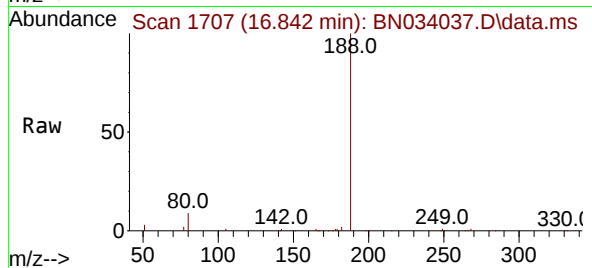
Tgt Ion:188 Resp: 26045

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 7.4 11.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.537 ng

RT: 15.226 min Scan# 1573

Delta R.T. -0.010 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

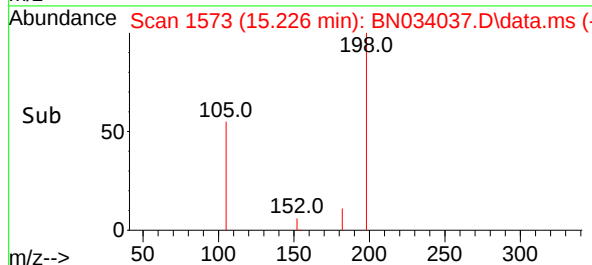
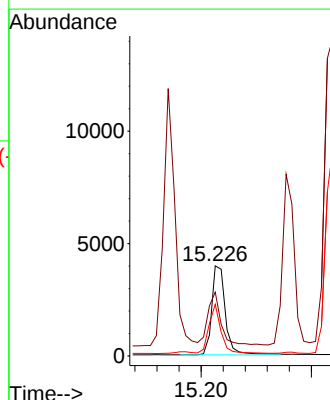
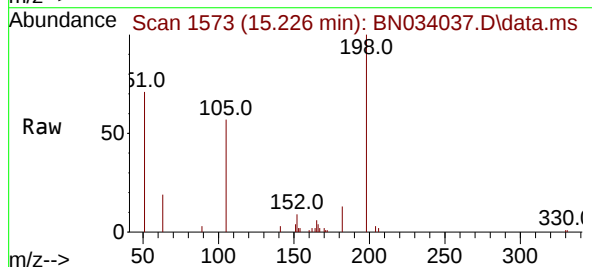
Tgt Ion:198 Resp: 6762

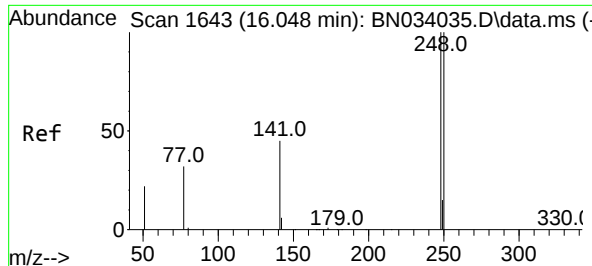
Ion Ratio Lower Upper

198 100

51 70.9 106.4 159.6#

105 57.4 38.5 57.7

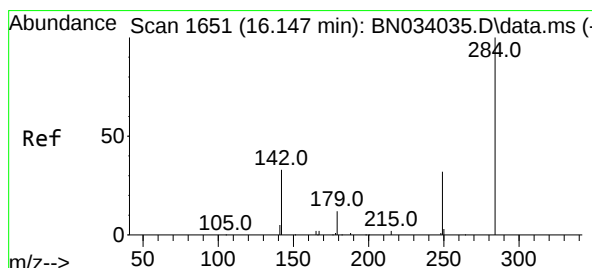
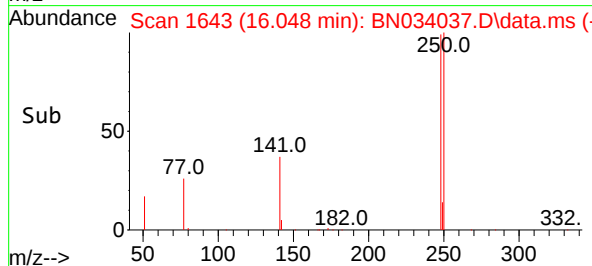
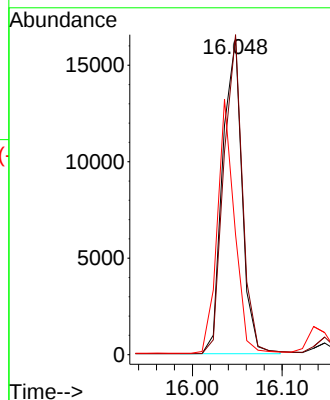
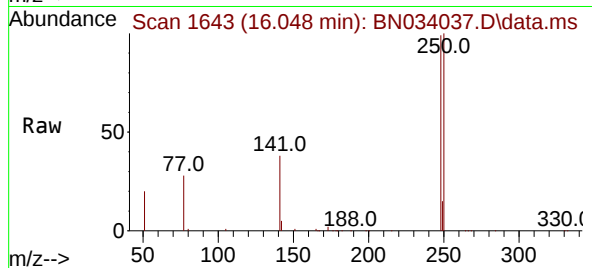




#21
4-Bromophenyl-phenylether
Concen: 1.680 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

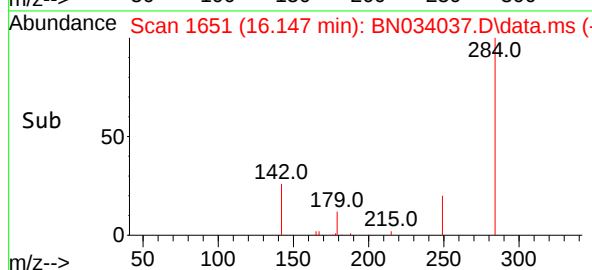
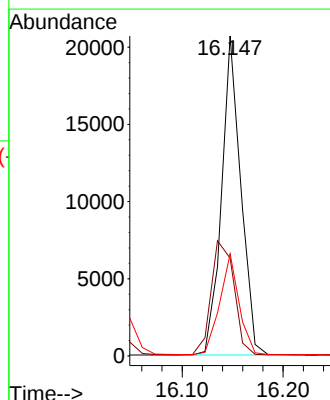
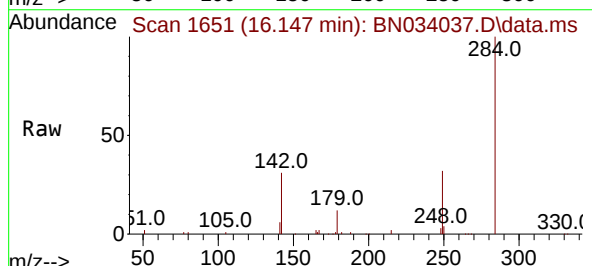
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

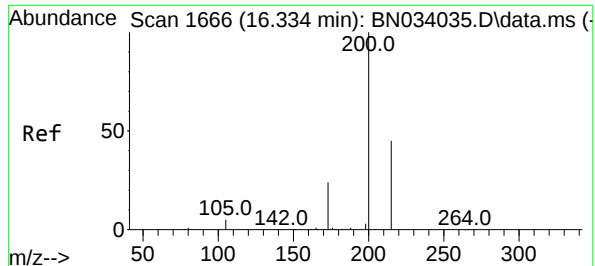
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.5	120.7
141	37.9	37.1	55.7



#22
Hexachlorobenzene
Concen: 1.668 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	42.3	34.5	51.7
249	31.6	25.8	38.6

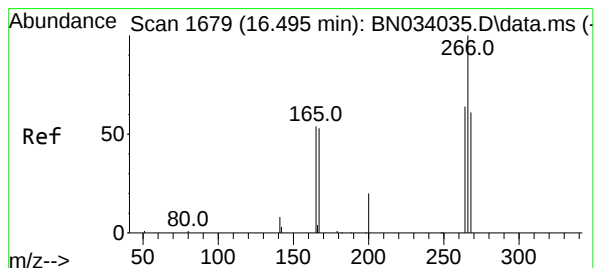
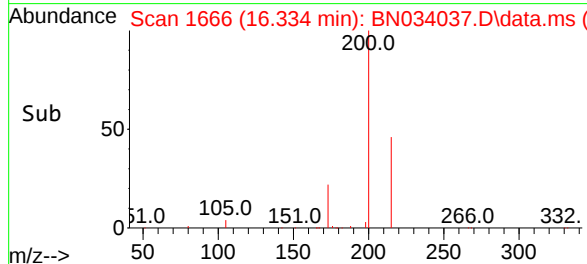
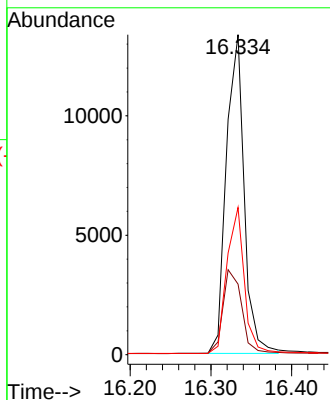
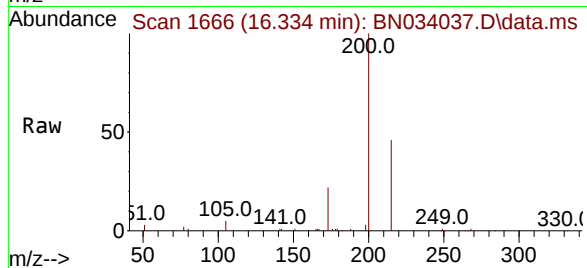




#23
Atrazine
Concen: 1.691 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

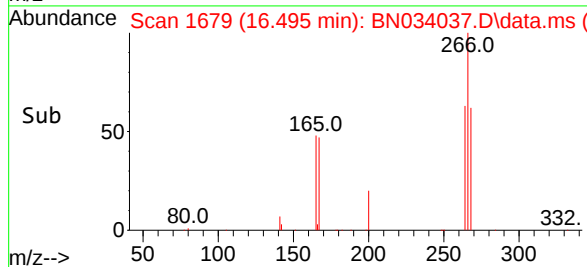
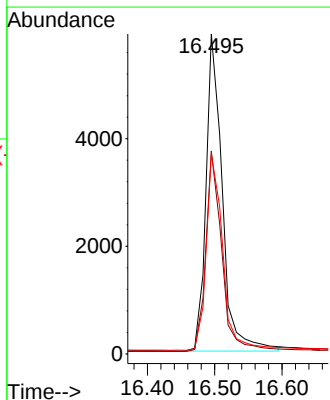
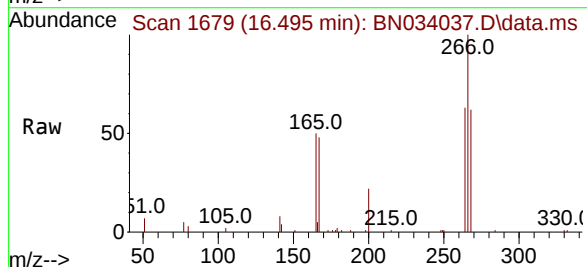
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

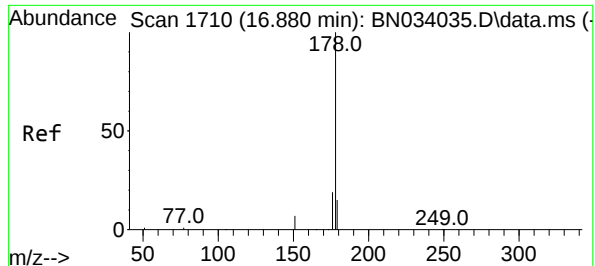
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.0	20.1	30.1
215	46.0	37.0	55.6



#24
Pentachlorophenol
Concen: 1.822 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.1	50.2	75.2
268	63.0	51.0	76.4





#25

Phenanthrene

Concen: 1.659 ng

RT: 16.880 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

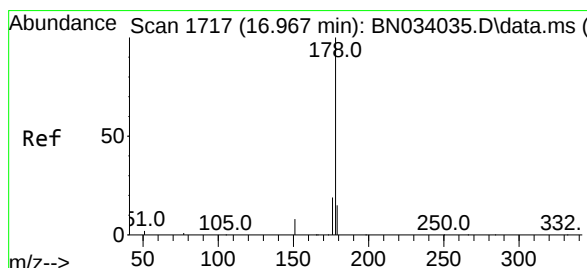
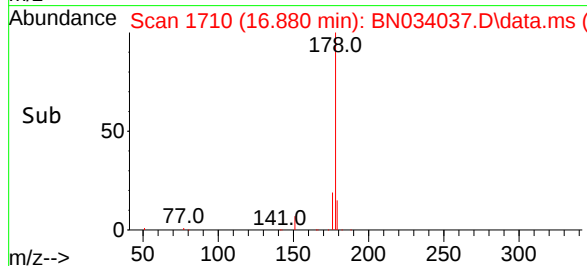
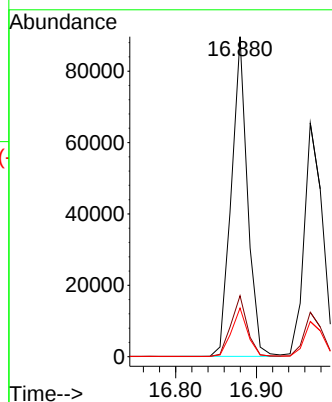
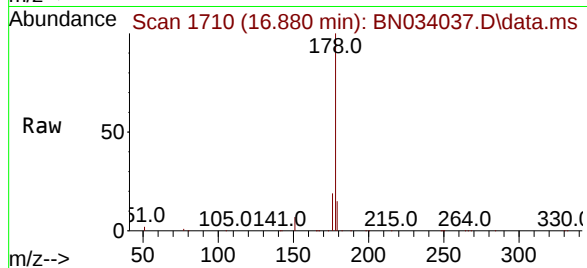
Tgt Ion:178 Resp: 124101

Ion Ratio Lower Upper

178 100

176 19.1 15.3 22.9

179 15.1 12.1 18.1



#26

Anthracene

Concen: 1.720 ng

RT: 16.967 min Scan# 1717

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

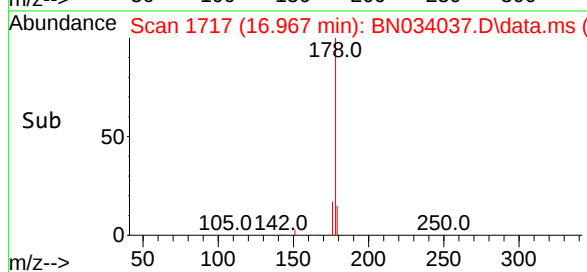
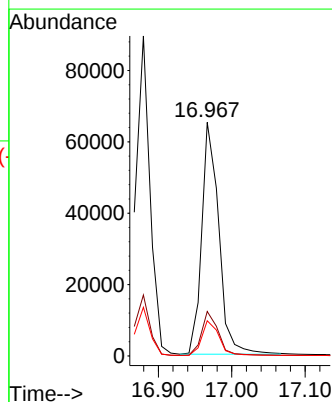
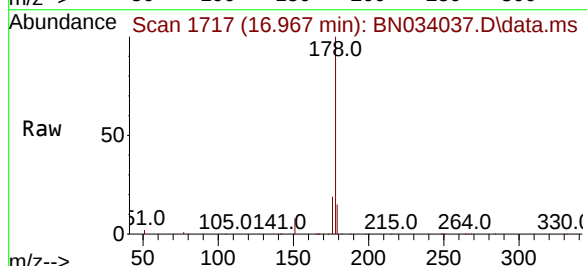
Tgt Ion:178 Resp: 105007

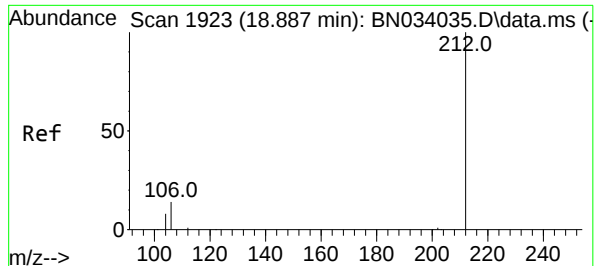
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

179 15.0 12.2 18.4





#27

Fluoranthene-d10

Concen: 1.671 ng

RT: 18.882 min Scan# 1923

Delta R.T. -0.005 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

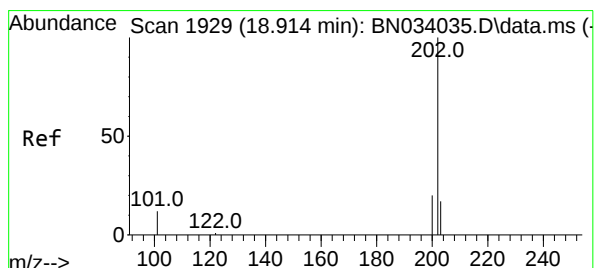
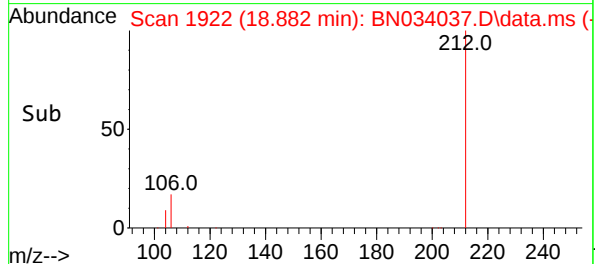
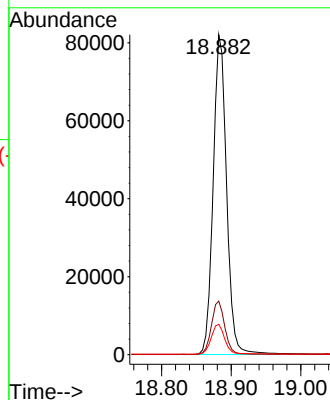
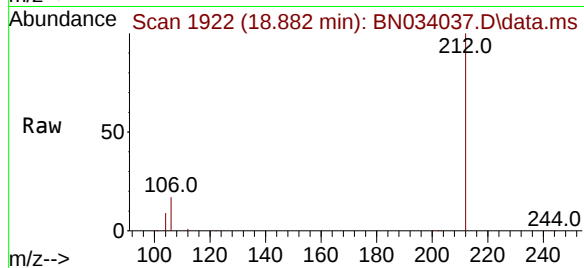
Tgt Ion:212 Resp: 109826

Ion Ratio Lower Upper

212 100

106 16.6 13.4 20.2

104 9.4 7.8 11.6



#28

Fluoranthene

Concen: 1.700 ng

RT: 18.915 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

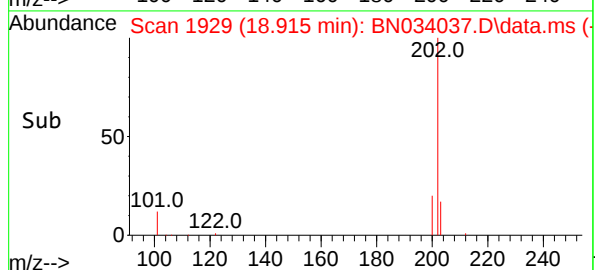
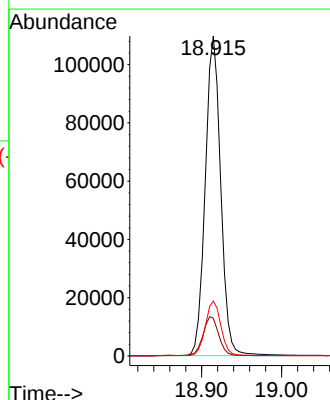
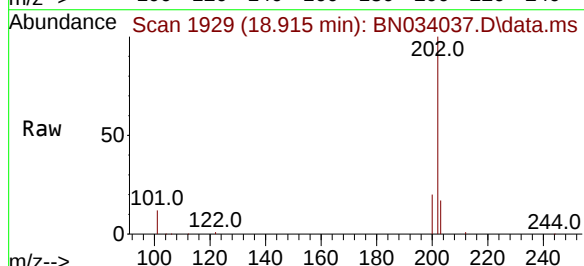
Tgt Ion:202 Resp: 147270

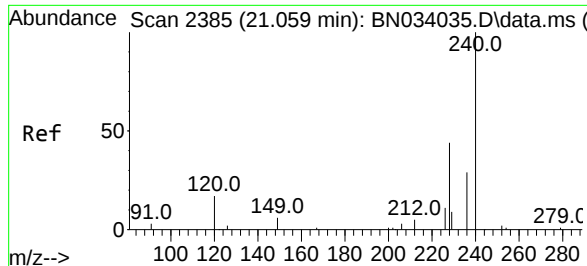
Ion Ratio Lower Upper

202 100

101 12.7 10.1 15.1

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

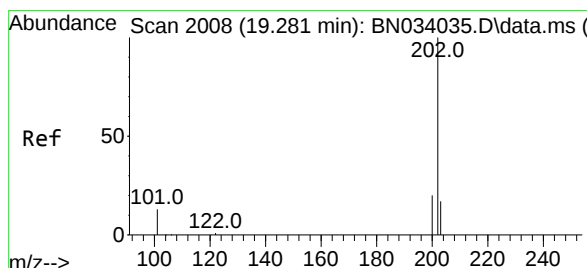
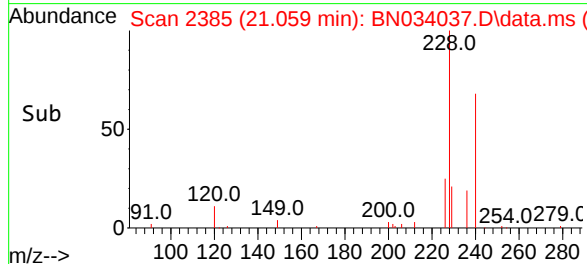
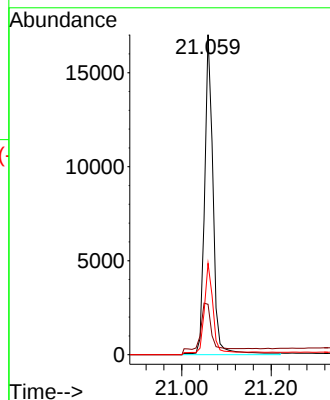
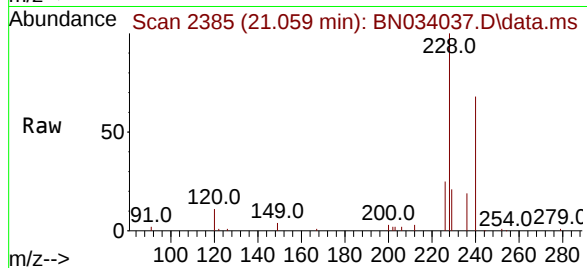
Tgt Ion:240 Resp: 21614

Ion Ratio Lower Upper

240 100

120 15.7 13.5 20.3

236 28.5 23.4 35.0



#30

Pyrene

Concen: 1.623 ng

RT: 19.277 min Scan# 2007

Delta R.T. -0.005 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

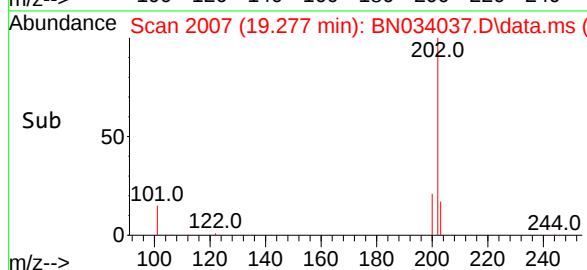
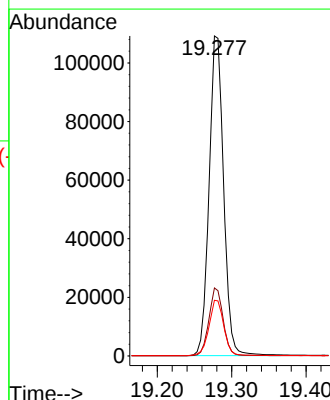
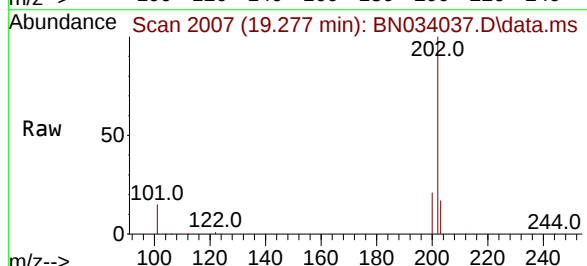
Tgt Ion:202 Resp: 148059

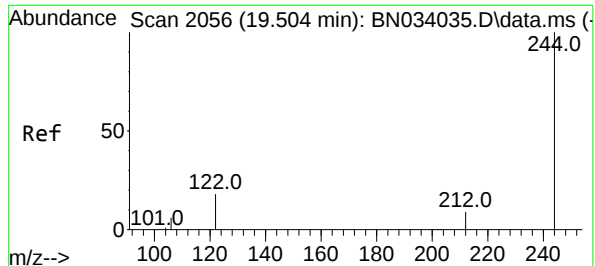
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.8 14.3 21.5

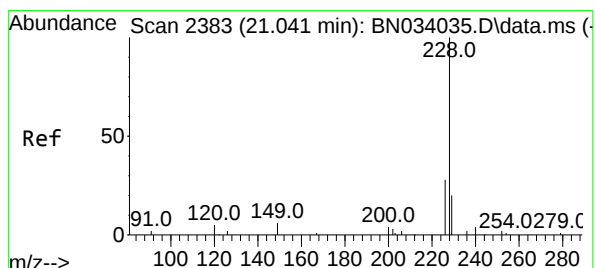
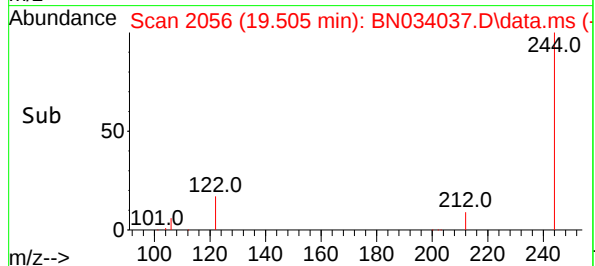
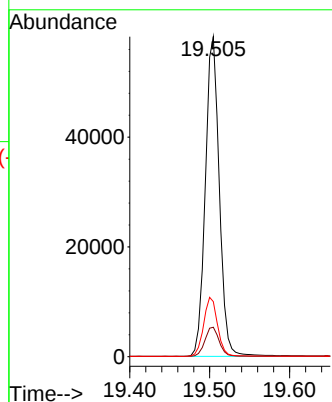
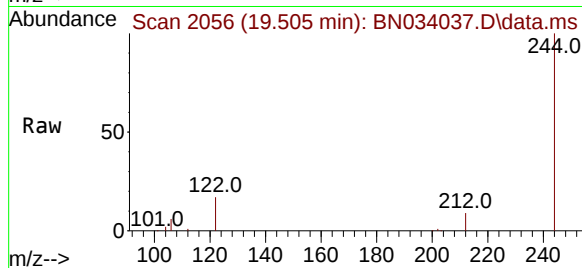




#31
Terphenyl-d14
Concen: 1.644 ng
RT: 19.505 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

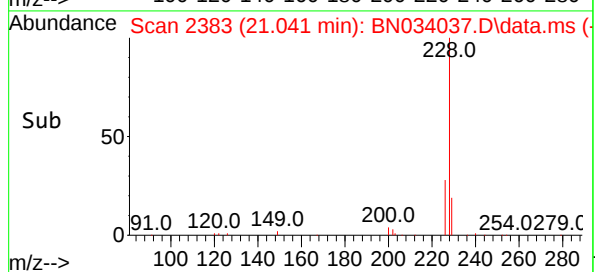
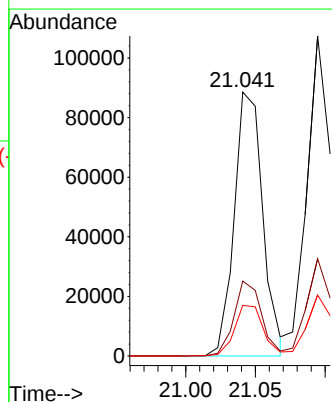
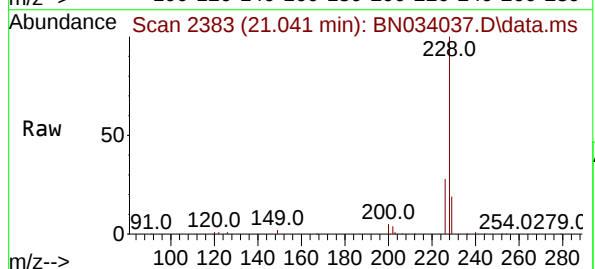
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

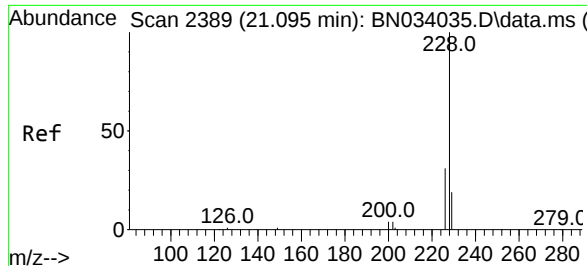
Tgt Ion:244 Resp: 70948
Ion Ratio Lower Upper
244 100
212 9.2 7.8 11.6
122 17.2 14.8 22.2



#32
Benzo(a)anthracene
Concen: 1.647 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:228 Resp: 112646
Ion Ratio Lower Upper
228 100
226 28.4 22.3 33.5
229 19.2 15.7 23.5





#33

Chrysene

Concen: 1.653 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

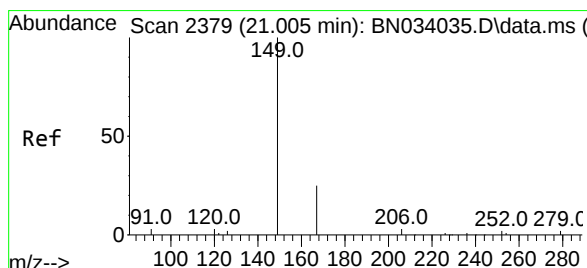
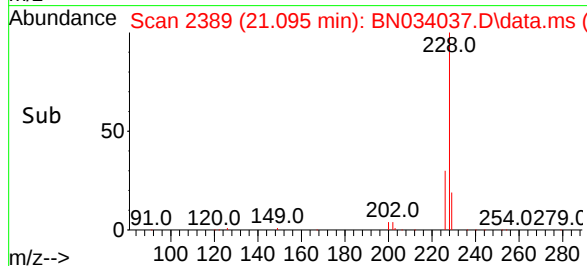
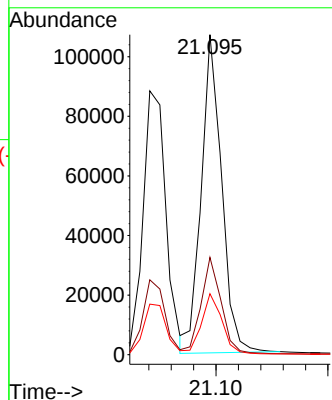
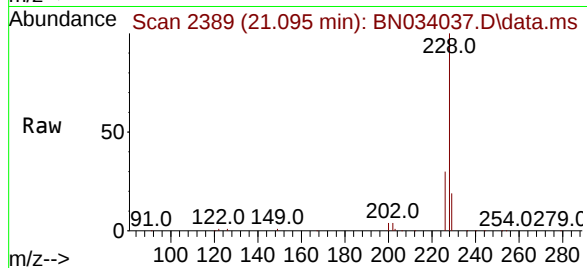
Tgt Ion:228 Resp: 134824

Ion Ratio Lower Upper

228 100

226 30.4 24.6 37.0

229 19.1 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.387 ng

RT: 21.005 min Scan# 2379

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

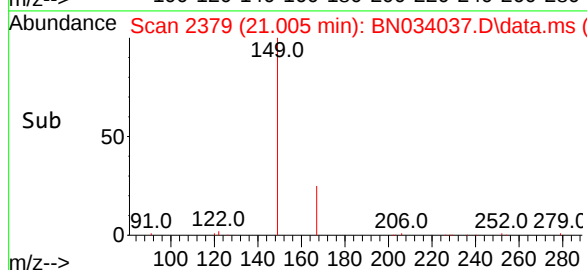
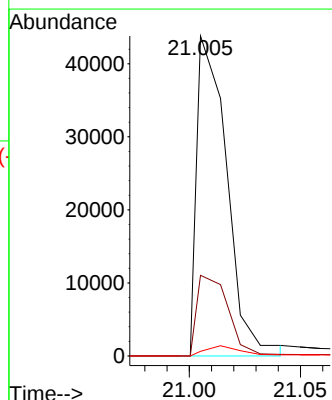
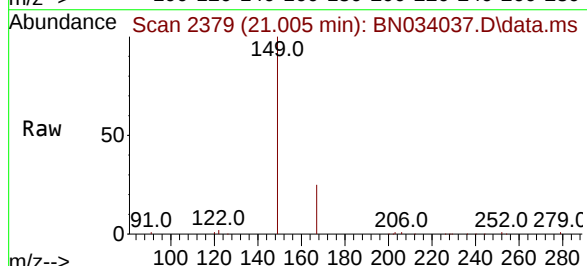
Tgt Ion:149 Resp: 39500

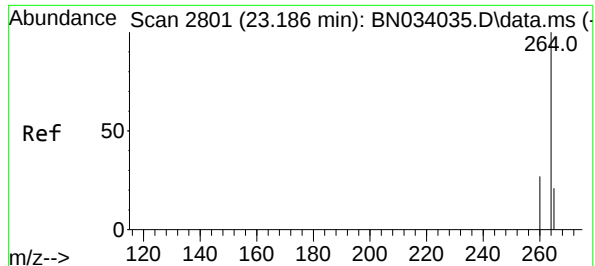
Ion Ratio Lower Upper

149 100

167 26.1 19.9 29.9

279 3.5 4.6 6.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.186 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

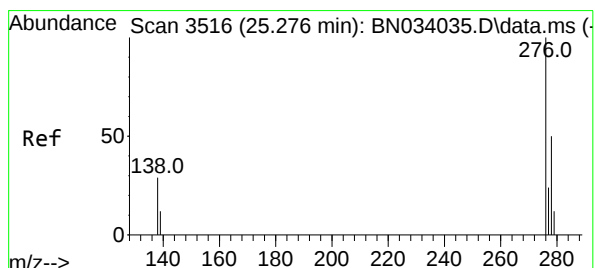
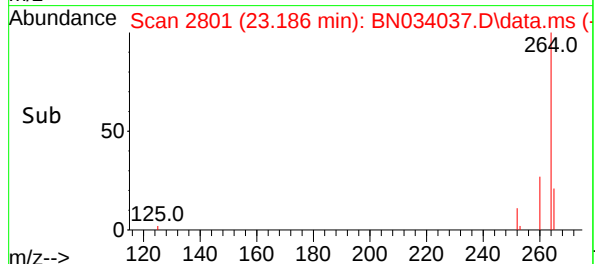
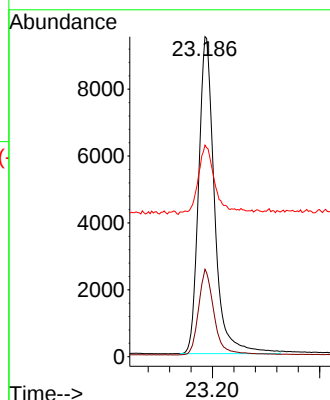
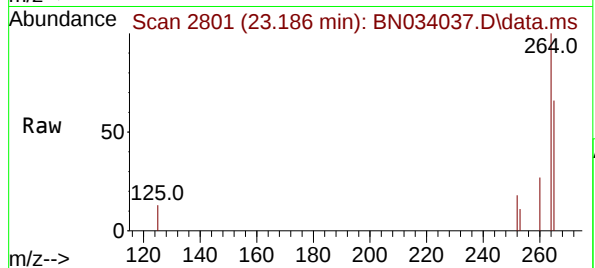
Tgt Ion:264 Resp: 19600

Ion Ratio Lower Upper

264 100

260 27.3 21.7 32.5

265 66.1 52.1 78.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.655 ng

RT: 25.273 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

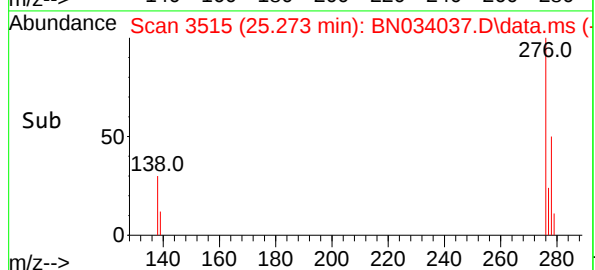
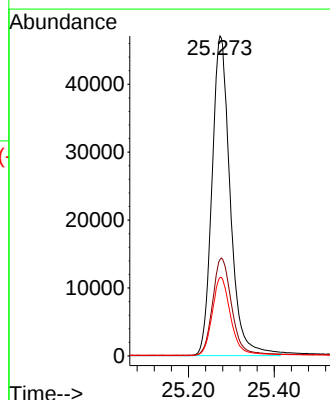
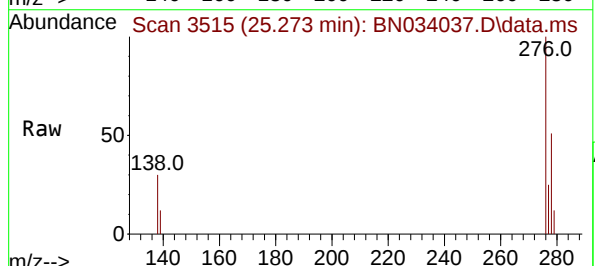
Tgt Ion:276 Resp: 138960

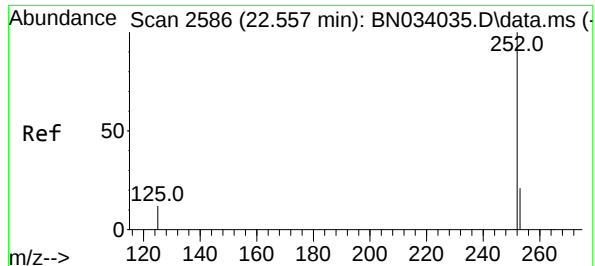
Ion Ratio Lower Upper

276 100

138 31.9 25.9 38.9

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.731 ng

RT: 22.560 min Scan# 2586

Delta R.T. 0.003 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

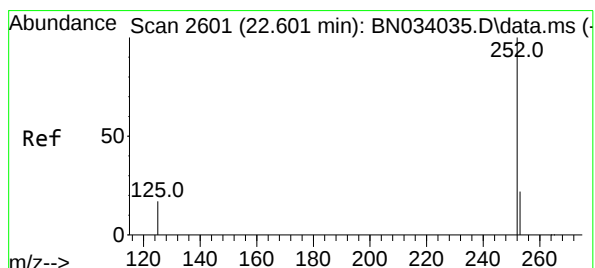
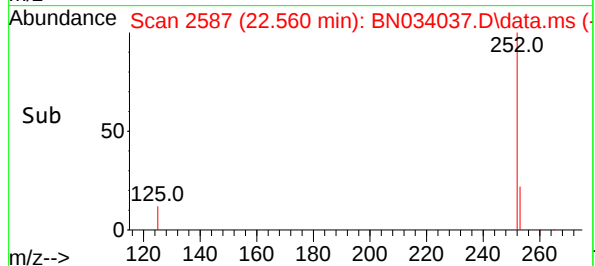
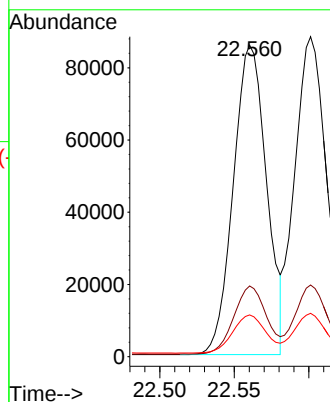
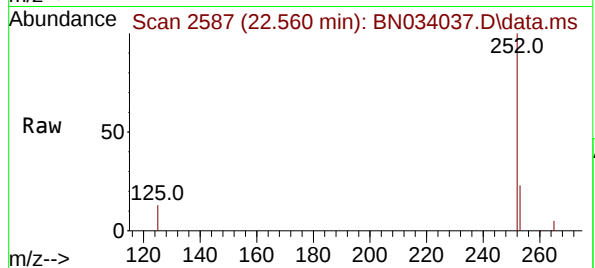
Tgt Ion:252 Resp: 132911

Ion Ratio Lower Upper

252 100

253 22.7 19.6 29.4

125 13.4 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 1.712 ng

RT: 22.601 min Scan# 2601

Delta R.T. 0.000 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

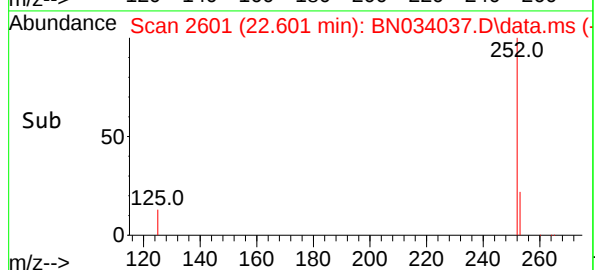
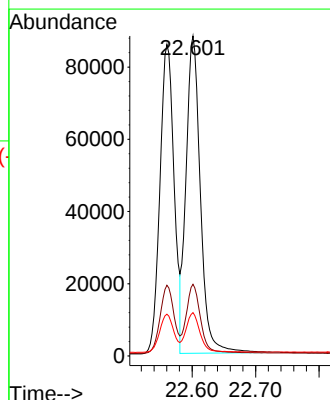
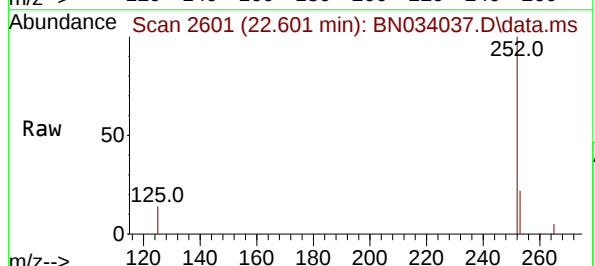
Tgt Ion:252 Resp: 137998

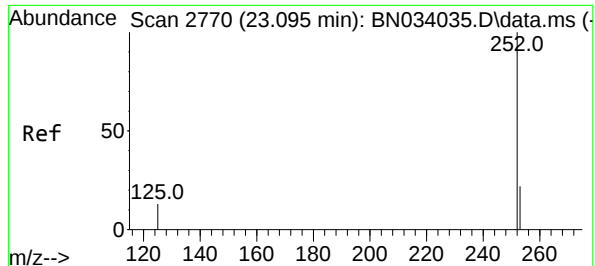
Ion Ratio Lower Upper

252 100

253 22.4 20.1 30.1

125 13.6 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 1.715 ng

RT: 23.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034037.D

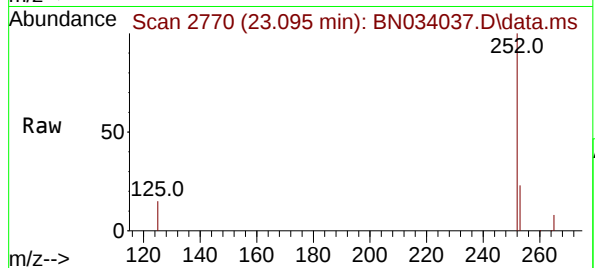
Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



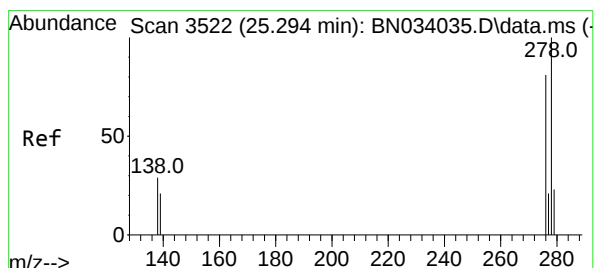
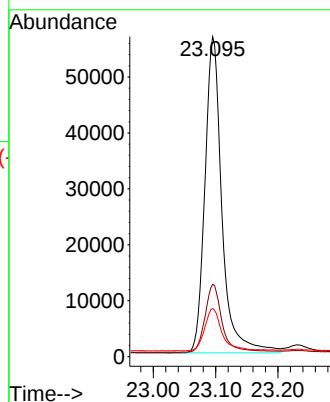
Tgt Ion:252 Resp: 107316

Ion Ratio Lower Upper

252 100

253 22.6 21.8 32.8

125 15.0 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.671 ng

RT: 25.288 min Scan# 3520

Delta R.T. -0.006 min

Lab File: BN034037.D

Acq: 18 Sep 2024 14:17

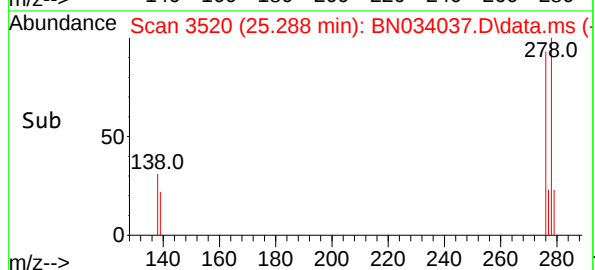
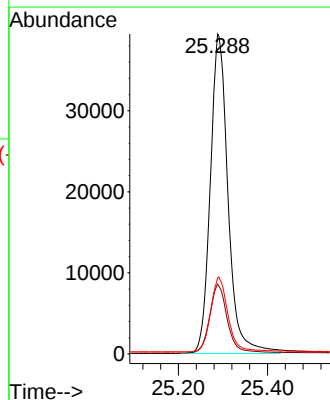
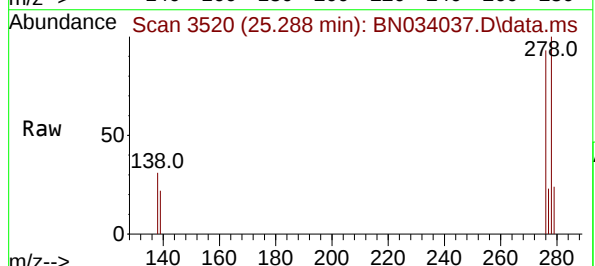
Tgt Ion:278 Resp: 108998

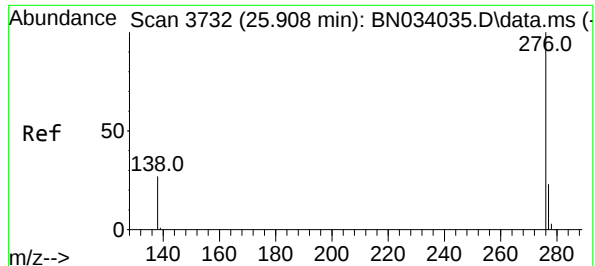
Ion Ratio Lower Upper

278 100

139 21.8 17.8 26.8

279 23.8 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 1.641 ng

RT: 25.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034037.D

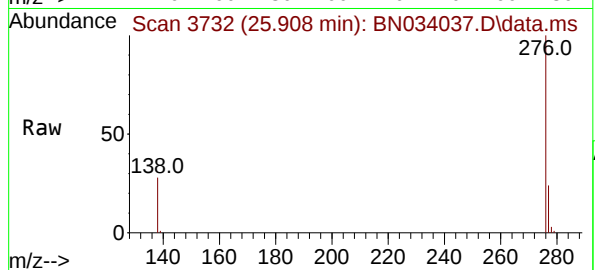
Acq: 18 Sep 2024 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



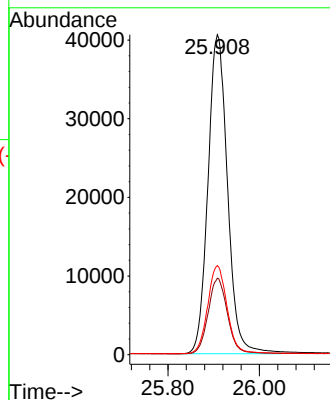
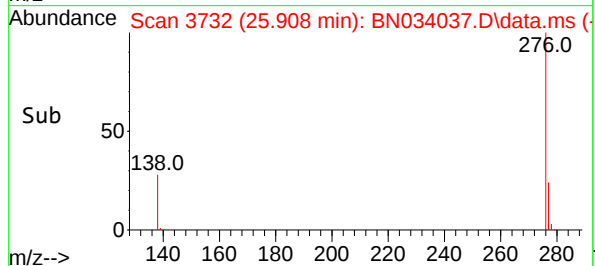
Tgt Ion:276 Resp: 120262

Ion Ratio Lower Upper

276 100

277 23.9 19.3 28.9

138 27.8 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034038.D
 Acq On : 18 Sep 2024 14:54
 Operator : JU/RC
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 18 16:15:46 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

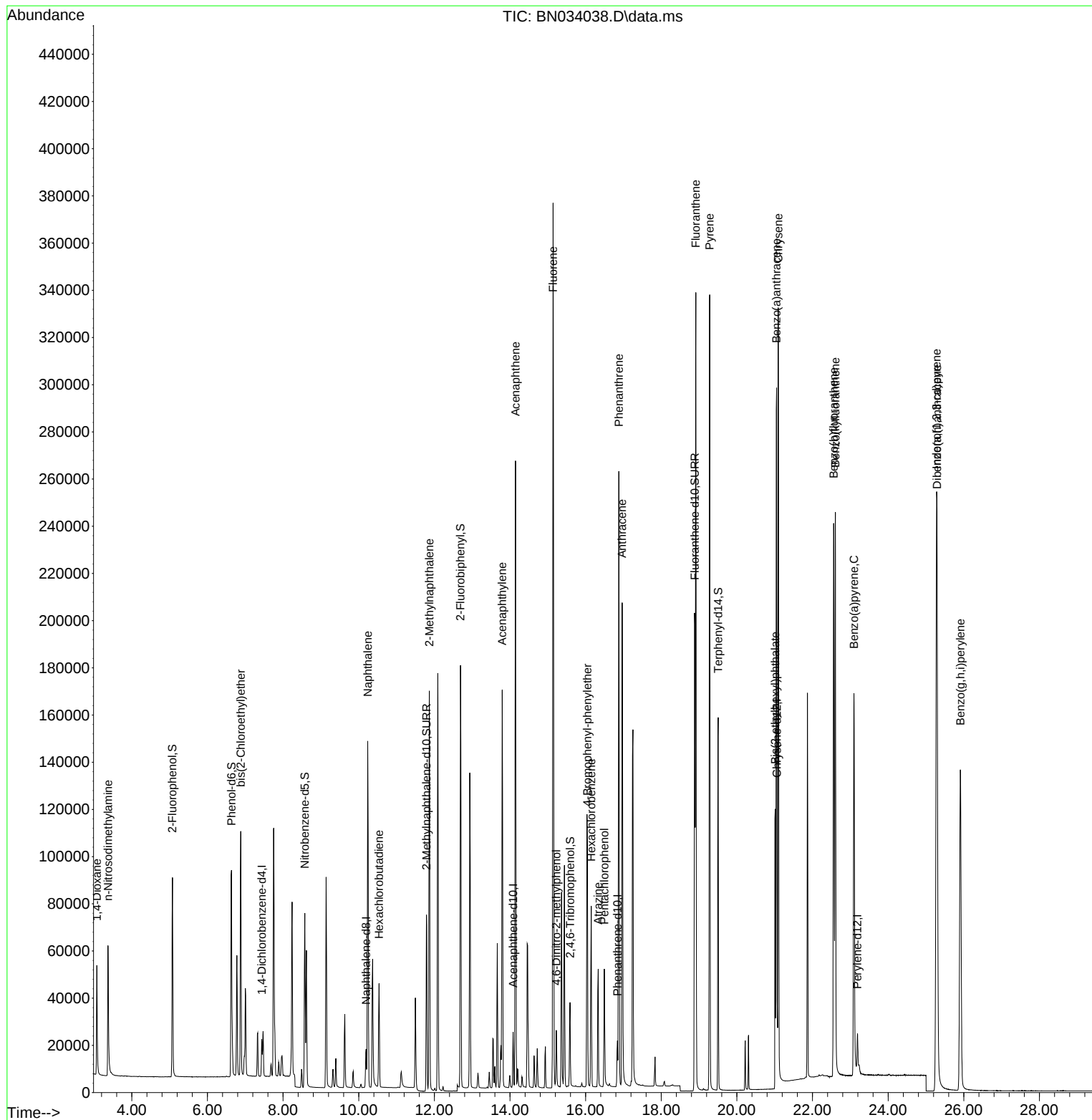
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	7307	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	21131	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	12153	0.400	ng	0.00
19) Phenanthrene-d10	16.842	188	26614	0.400	ng	0.00
29) Chrysene-d12	21.059	240	22873	0.400	ng	0.00
35) Perylene-d12	23.189	264	20684	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	63110	3.043	ng	0.00
5) Phenol-d6	6.635	99	80154	3.323	ng	0.00
8) Nitrobenzene-d5	8.574	82	54215	3.354	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	98906	3.170	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	19161	3.480	ng	0.00
15) 2-Fluorobiphenyl	12.692	172	155310	3.142	ng	-0.01
27) Fluoranthene-d10	18.887	212	215735	3.213	ng	0.00
31) Terphenyl-d14	19.504	244	140407	3.074	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.074	88	27346	2.993	ng	93
3) n-Nitrosodimethylamine	3.370	42	32761	3.151	ng	# 97
6) bis(2-Chloroethyl)ether	6.880	93	67753	3.175	ng	98
9) Naphthalene	10.240	128	180527	3.113	ng	99
10) Hexachlorobutadiene	10.539	225	32520	2.976	ng	# 99
12) 2-Methylnaphthalene	11.869	142	120585	3.195	ng	98
16) Acenaphthylene	13.793	152	178740	3.436	ng	100
17) Acenaphthene	14.146	154	118987	3.189	ng	98
18) Fluorene	15.140	166	157300	3.213	ng	99
20) 4,6-Dinitro-2-methylph...	15.226	198	15277	3.232	ng	# 55
21) 4-Bromophenyl-phenylether	16.048	248	47888	3.201	ng	# 94
22) Hexachlorobenzene	16.147	284	52341	3.120	ng	100
23) Atrazine	16.334	200	40875	3.297	ng	96
24) Pentachlorophenol	16.495	266	22273	4.015	ng	100
25) Phenanthrene	16.880	178	240379	3.145	ng	100
26) Anthracene	16.967	178	215284	3.452	ng	100
28) Fluoranthene	18.914	202	289295	3.268	ng	100
30) Pyrene	19.281	202	296441	3.071	ng	100
32) Benzo(a)anthracene	21.050	228	232693	3.216	ng	99
33) Chrysene	21.095	228	267873	3.103	ng	100
34) Bis(2-ethylhexyl)phtha...	21.014	149	88712	2.943	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.279	276	284132	3.206	ng	99
37) Benzo(b)fluoranthene	22.560	252	274115	3.383	ng	# 93
38) Benzo(k)fluoranthene	22.604	252	269423	3.168	ng	# 89
39) Benzo(a)pyrene	23.095	252	221768	3.358	ng	# 87
40) Dibenzo(a,h)anthracene	25.294	278	224248	3.257	ng	96
41) Benzo(g,h,i)perylene	25.911	276	244366	3.160	ng	98

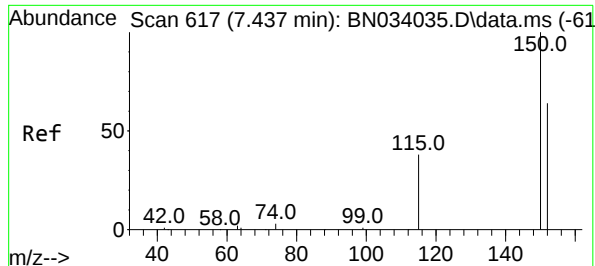
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034038.D
Acq On : 18 Sep 2024 14:54
Operator : JU/RC
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 18 16:15:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

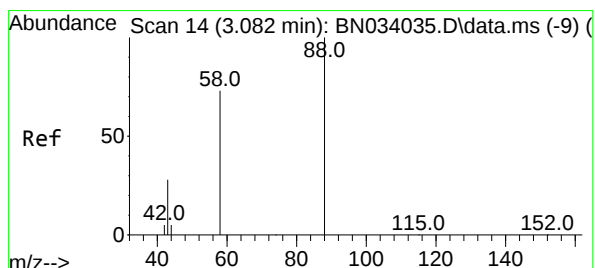
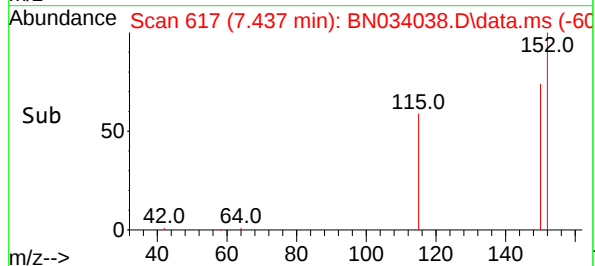
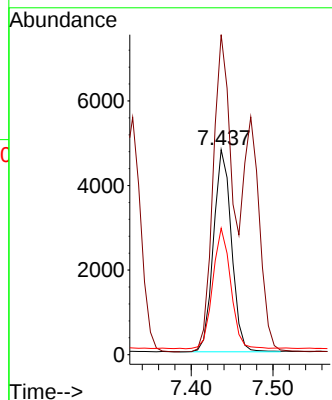
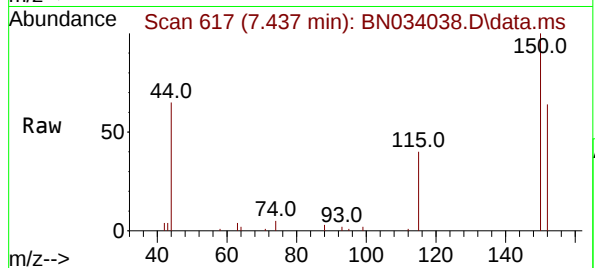




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

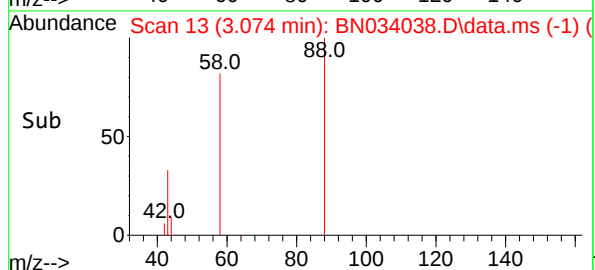
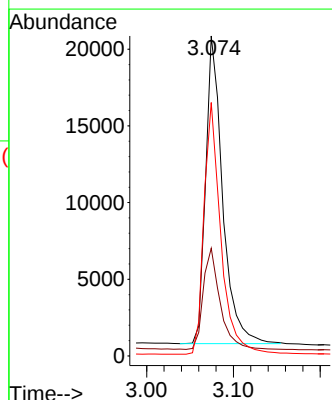
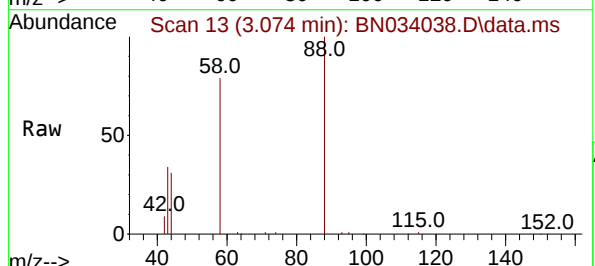
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

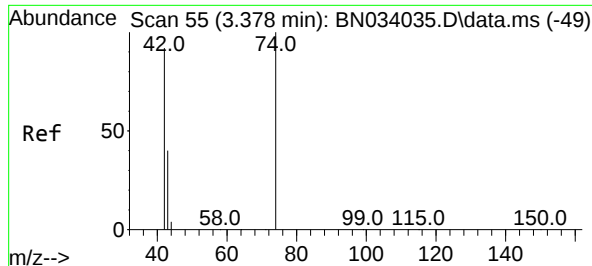
Tgt Ion:152 Resp: 7307
Ion Ratio Lower Upper
152 100
150 156.2 124.6 187.0
115 61.7 50.0 75.0



#2
1,4-Dioxane
Concen: 2.993 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 88 Resp: 27346
Ion Ratio Lower Upper
88 100
43 32.6 25.8 38.8
58 81.3 58.8 88.2

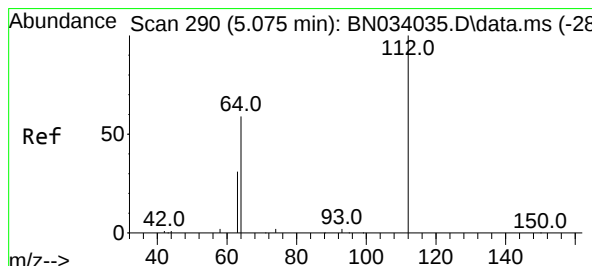
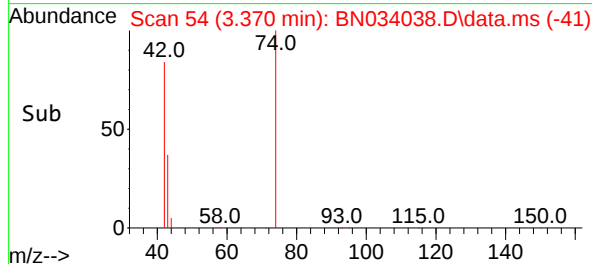
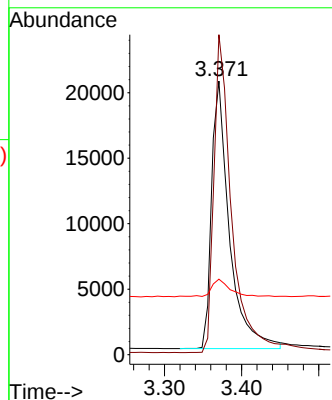
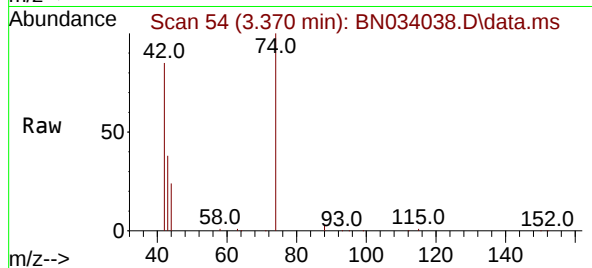




#3
n-Nitrosodimethylamine
Concen: 3.151 ng
RT: 3.370 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

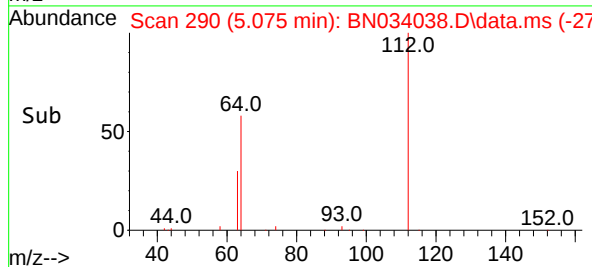
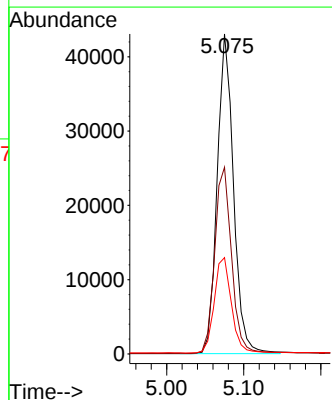
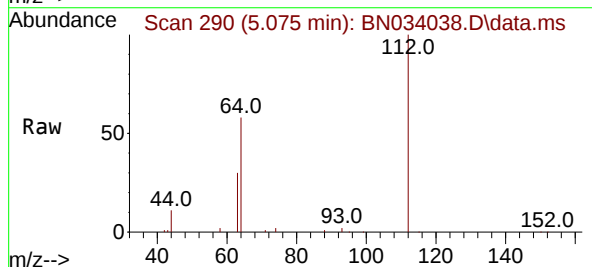
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

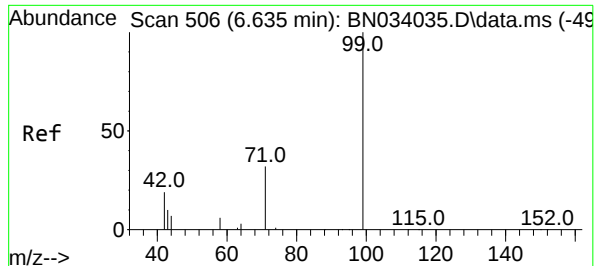
Tgt Ion: 42 Resp: 32761
Ion Ratio Lower Upper
42 100
74 117.8 94.6 142.0
44 6.8 12.4 18.6#



#4
2-Fluorophenol
Concen: 3.043 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 112 Resp: 63110
Ion Ratio Lower Upper
112 100
64 60.3 48.6 72.8
63 31.4 25.6 38.4

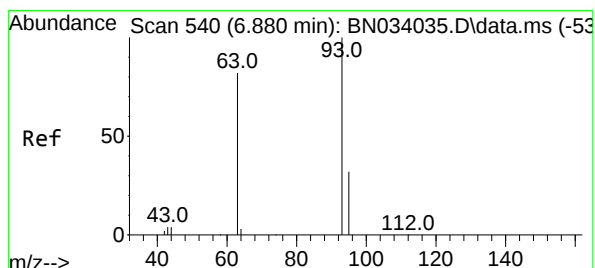
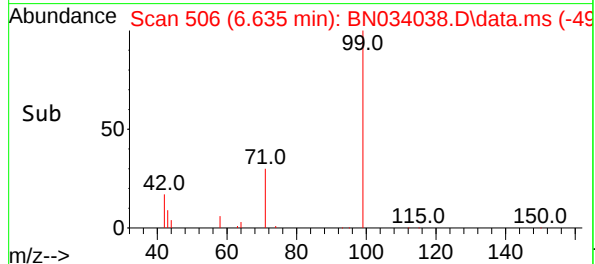
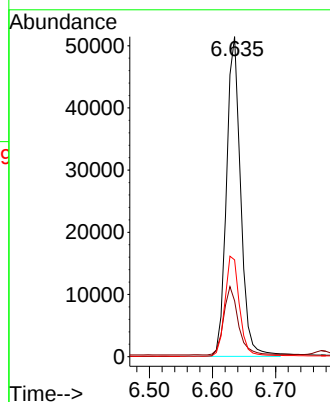
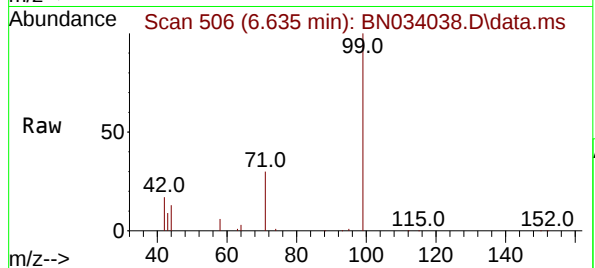




#5
Phenol-d6
Concen: 3.323 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

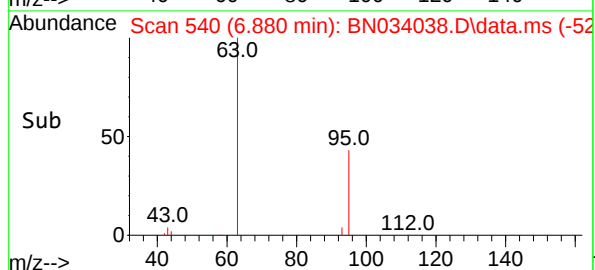
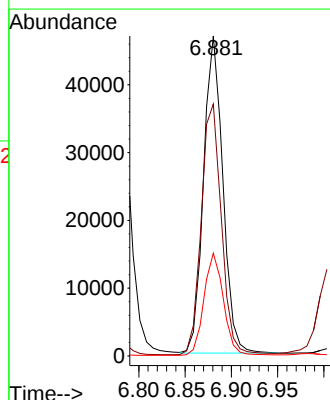
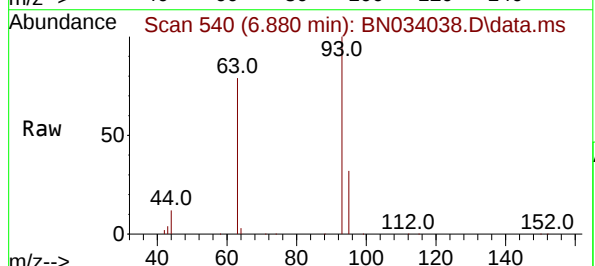
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

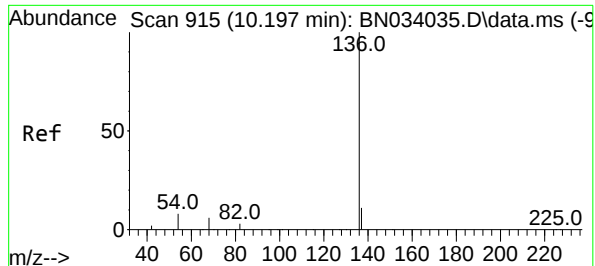
Tgt Ion: 99 Resp: 80154
Ion Ratio Lower Upper
99 100
42 22.2 17.8 26.8
71 32.3 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 3.175 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 93 Resp: 67753
Ion Ratio Lower Upper
93 100
63 82.6 67.3 100.9
95 32.6 26.8 40.2

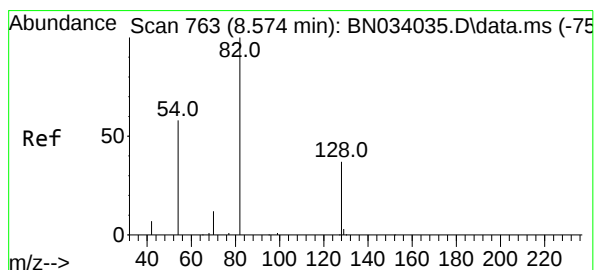
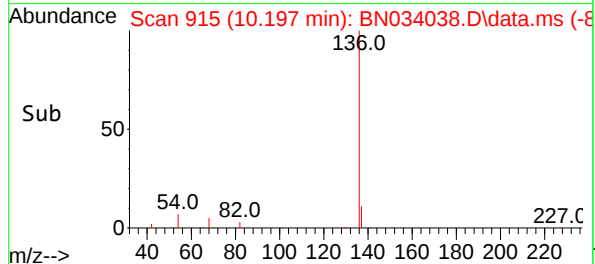
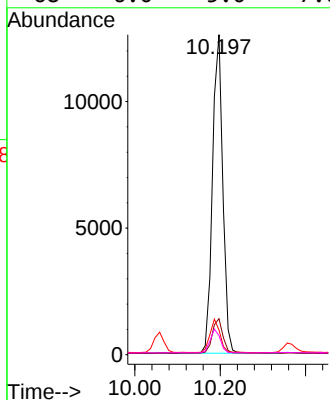
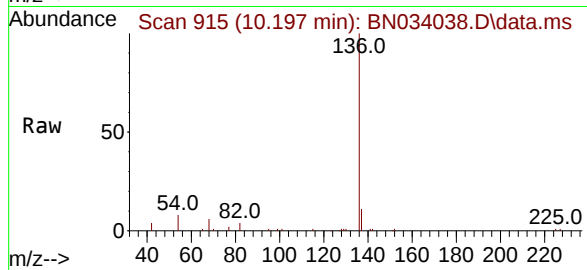




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

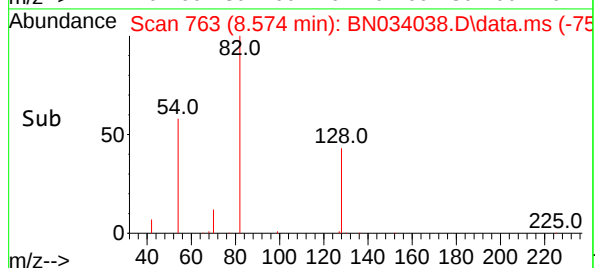
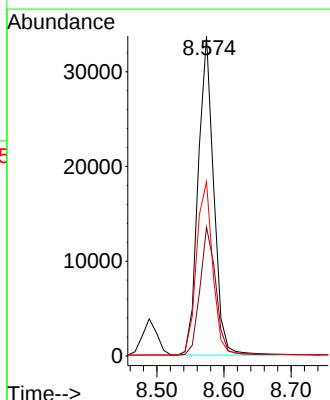
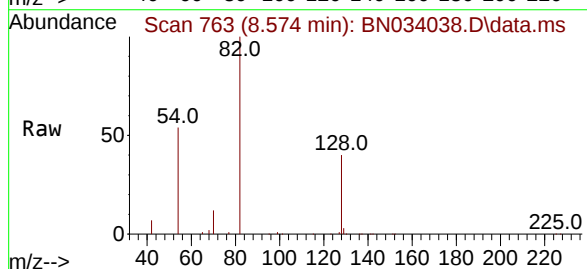
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

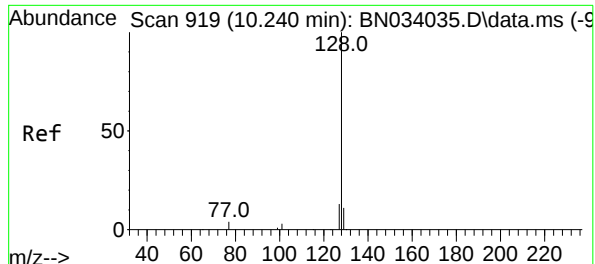
Tgt Ion:	136	Resp:	21131
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	7.7	6.8	10.2
68	6.0	5.0	7.6



#8
Nitrobenzene-d5
Concen: 3.354 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:	82	Resp:	54215
Ion	Ratio	Lower	Upper
82	100		
128	40.3	31.4	47.2
54	54.5	47.4	71.0

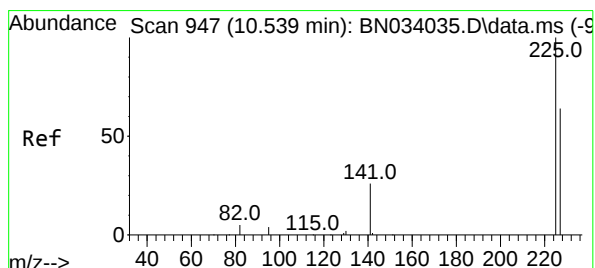
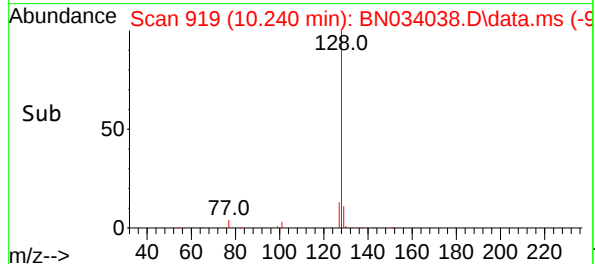
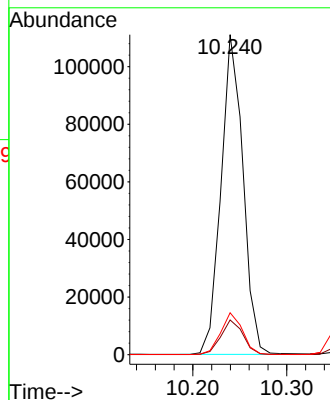
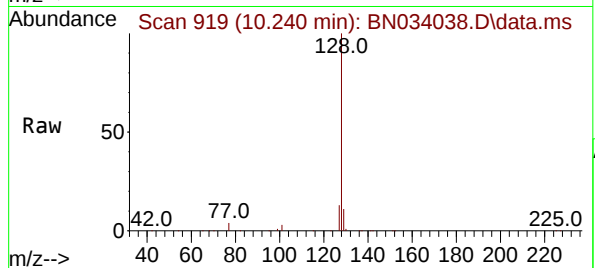




#9
Naphthalene
Concen: 3.113 ng
RT: 10.240 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

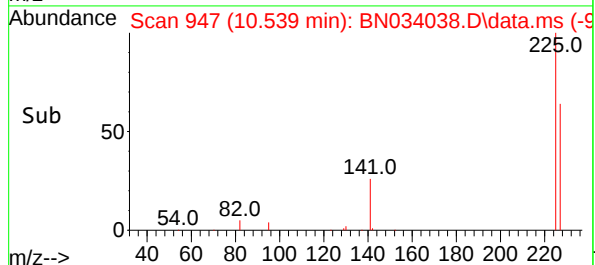
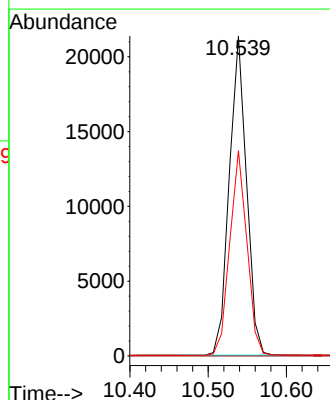
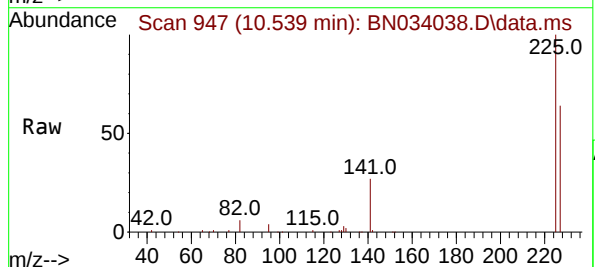
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

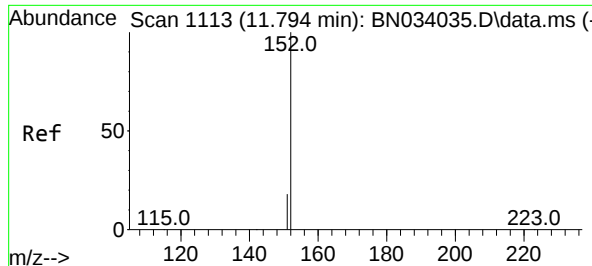
Tgt Ion:128 Resp: 180527
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 2.976 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:225 Resp: 32520
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 50.5 75.7

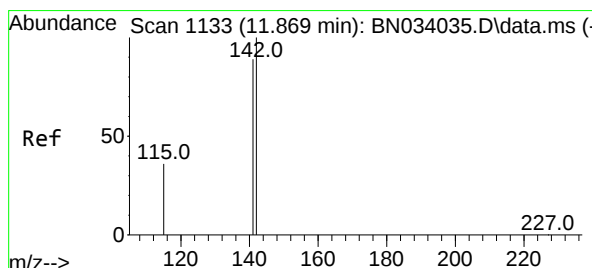
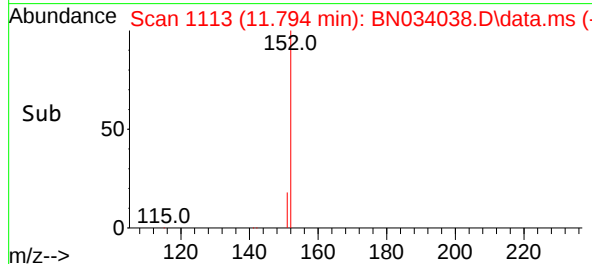
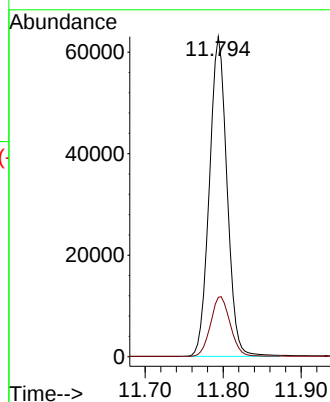
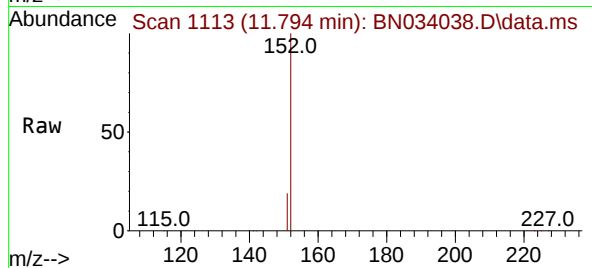




#11
2-Methylnaphthalene-d10
Concen: 3.170 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

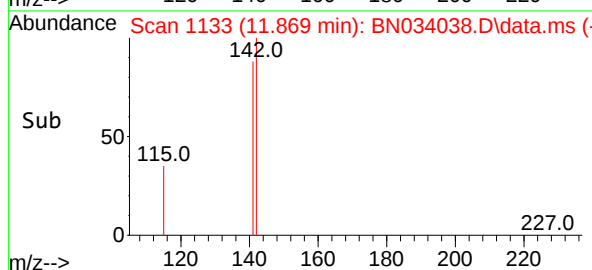
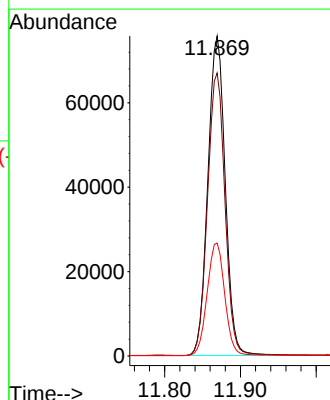
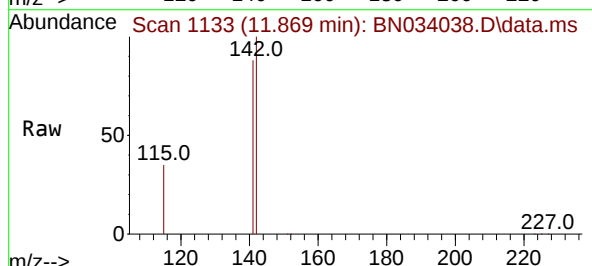
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

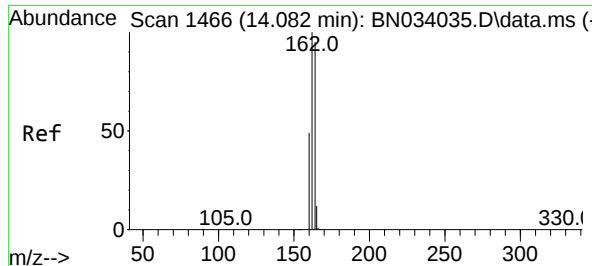
Tgt Ion:152 Resp: 98906
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 3.195 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:142 Resp: 120585
Ion Ratio Lower Upper
142 100
141 88.4 71.6 107.4
115 35.3 30.0 45.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.082 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

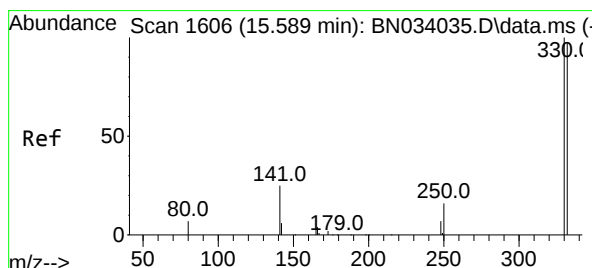
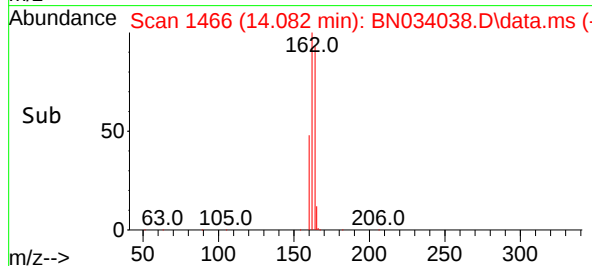
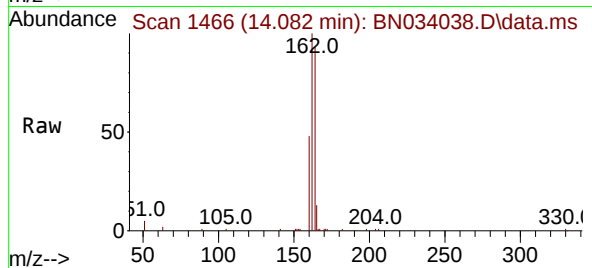
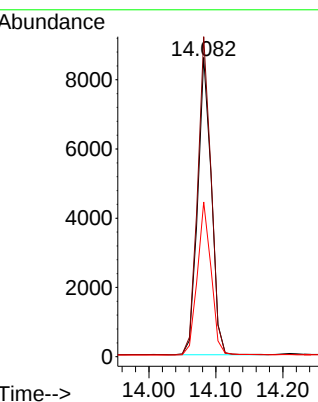
BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:164 Resp: 12153

Ion	Ratio	Lower	Upper
164	100		
162	107.0	84.2	126.2
160	51.7	41.7	62.5



#14

2,4,6-Tribromophenol

Concen: 3.480 ng

RT: 15.589 min Scan# 1606

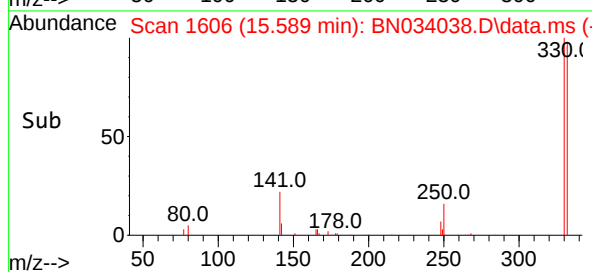
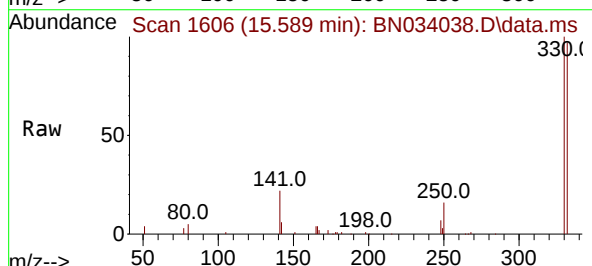
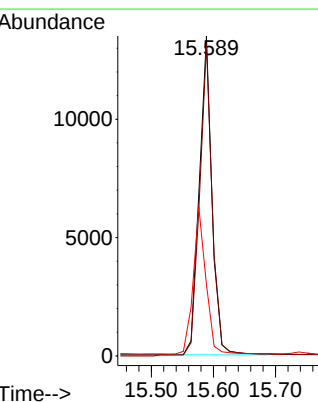
Delta R.T. 0.000 min

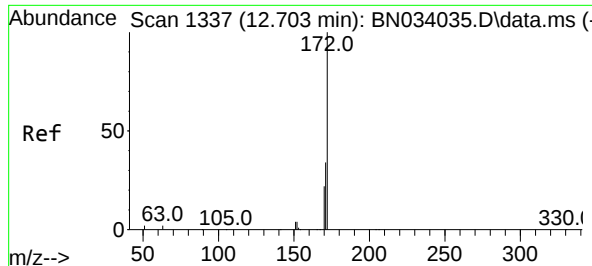
Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Tgt Ion:330 Resp: 19161

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	46.1	35.9	53.9





#15

2-Fluorobiphenyl

Concen: 3.142 ng

RT: 12.692 min Scan# 1336

Delta R.T. -0.011 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

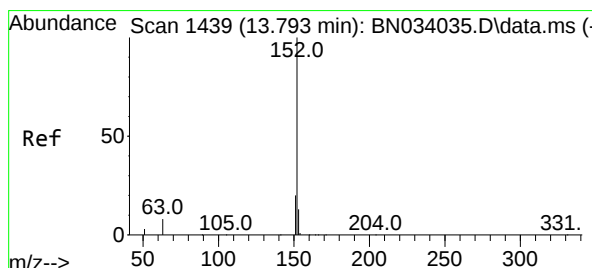
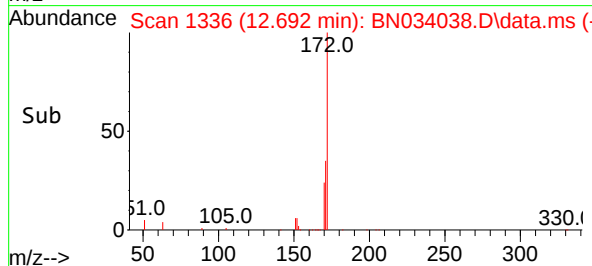
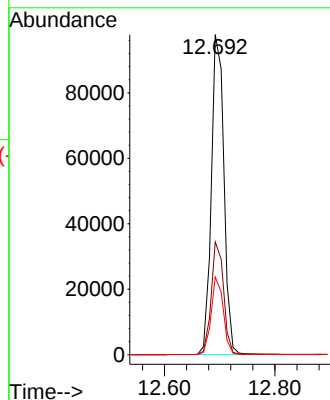
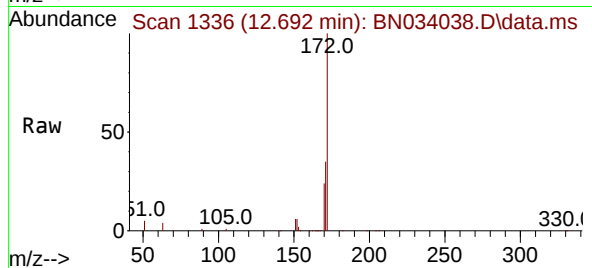
Tgt Ion:172 Resp: 155310

Ion Ratio Lower Upper

172 100

171 35.3 27.3 40.9

170 24.3 18.1 27.1



#16

Acenaphthylene

Concen: 3.436 ng

RT: 13.793 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

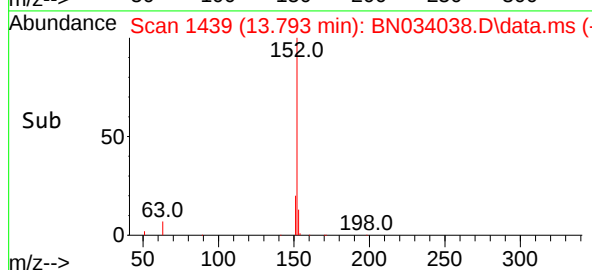
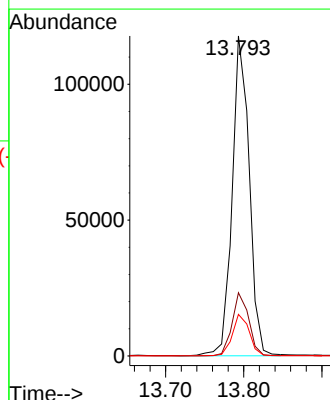
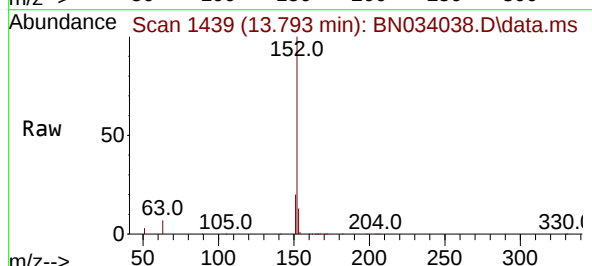
Tgt Ion:152 Resp: 178740

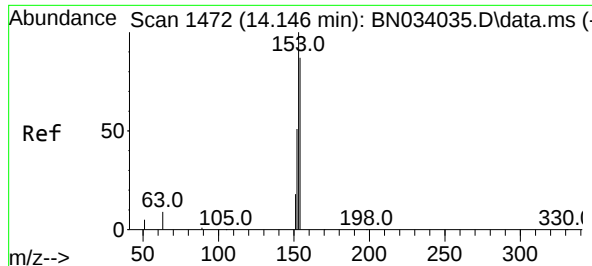
Ion Ratio Lower Upper

152 100

151 19.2 15.6 23.4

153 12.9 10.3 15.5

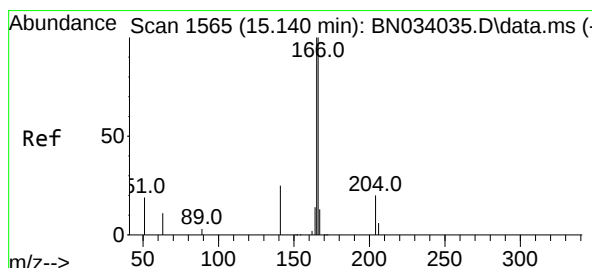
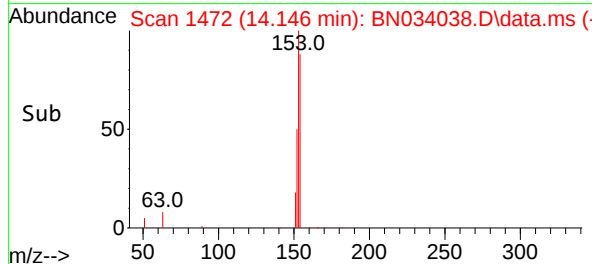
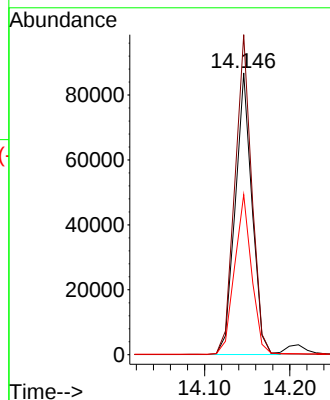
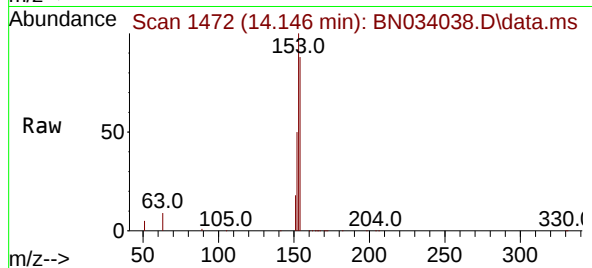




#17
Acenaphthene
Concen: 3.189 ng
RT: 14.146 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

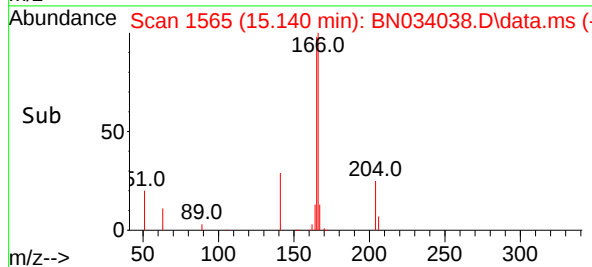
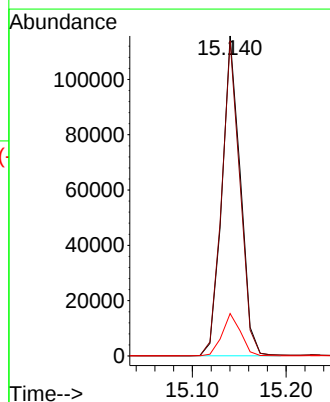
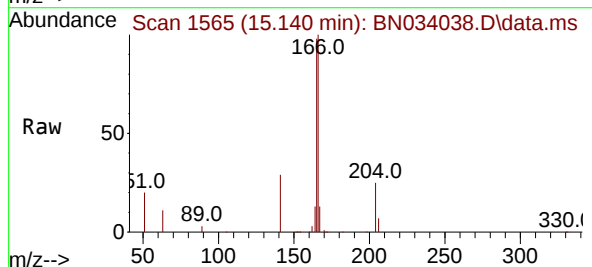
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

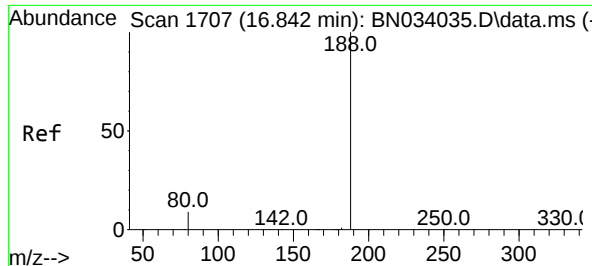
Tgt Ion:154 Resp: 118987
Ion Ratio Lower Upper
154 100
153 113.5 91.6 137.4
152 57.2 47.4 71.2



#18
Fluorene
Concen: 3.213 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:166 Resp: 157300
Ion Ratio Lower Upper
166 100
165 98.0 79.1 118.7
167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.842 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

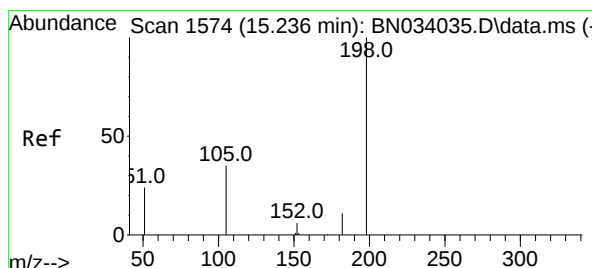
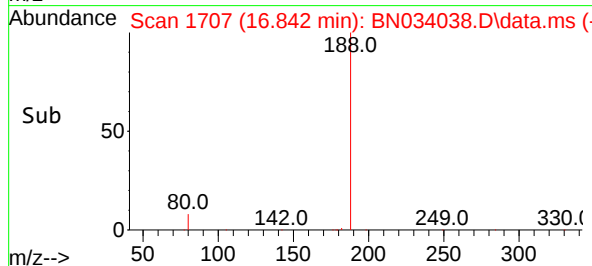
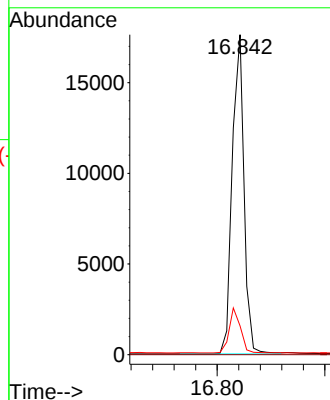
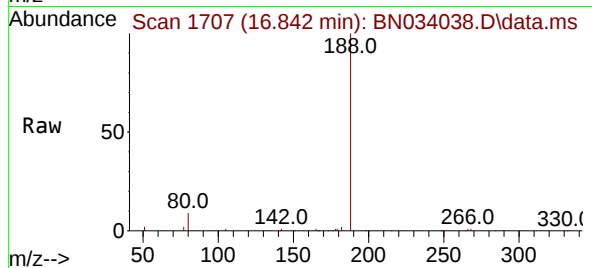
Tgt Ion:188 Resp: 26614

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.4 11.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.232 ng

RT: 15.226 min Scan# 1573

Delta R.T. -0.010 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

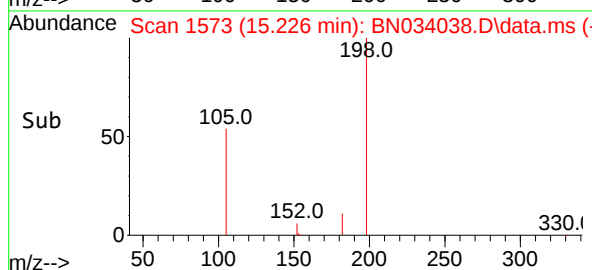
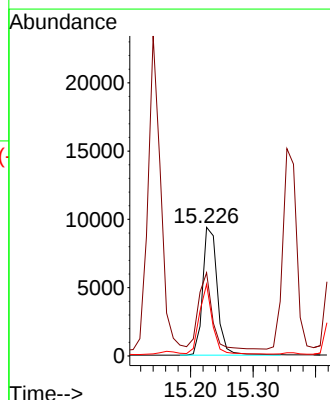
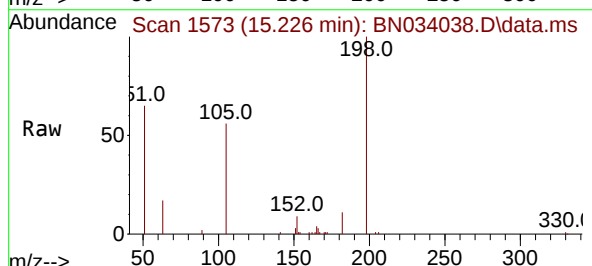
Tgt Ion:198 Resp: 15277

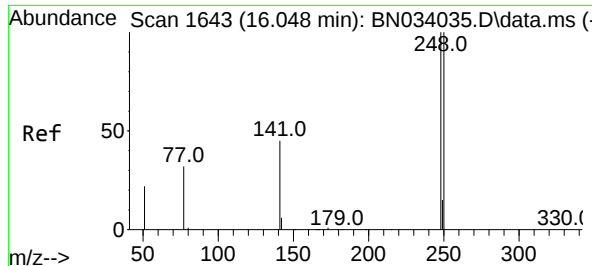
Ion Ratio Lower Upper

198 100

51 64.7 106.4 159.6#

105 55.8 38.5 57.7

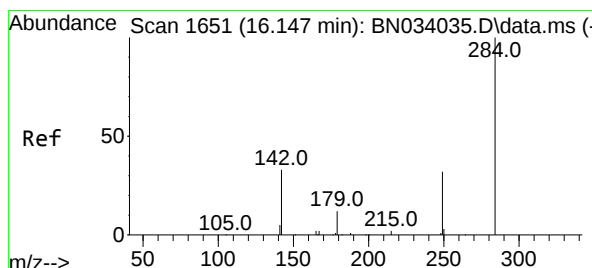
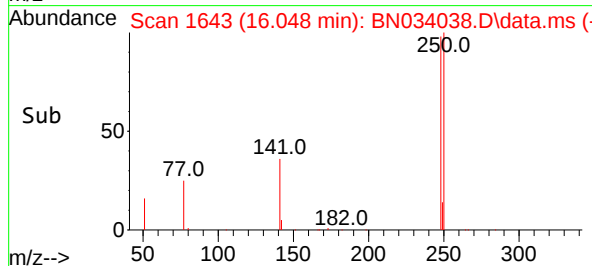
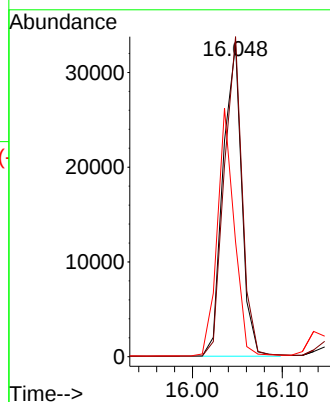
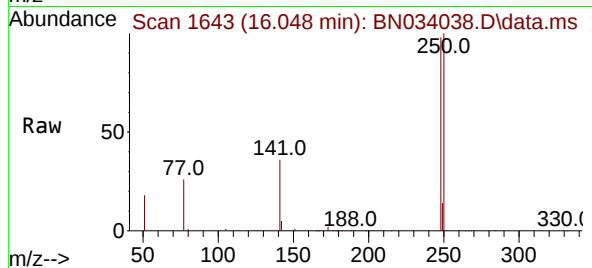




#21
4-Bromophenyl-phenylether
Concen: 3.201 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

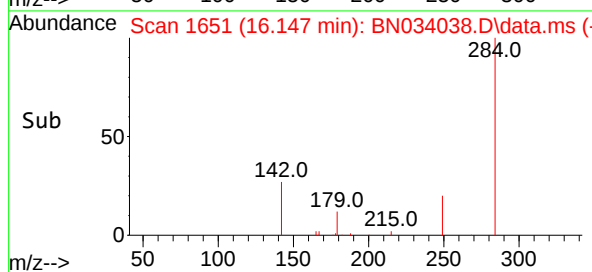
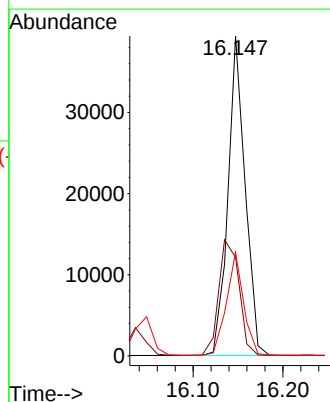
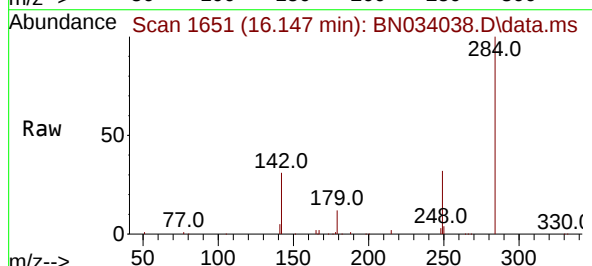
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

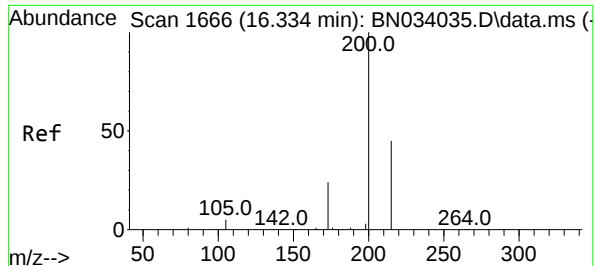
Tgt Ion:248 Resp: 47888
Ion Ratio Lower Upper
248 100
250 102.5 80.5 120.7
141 36.8 37.1 55.7#



#22
Hexachlorobenzene
Concen: 3.120 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:284 Resp: 52341
Ion Ratio Lower Upper
284 100
142 42.8 34.5 51.7
249 32.0 25.8 38.6

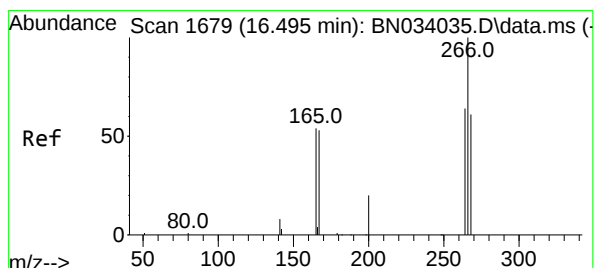
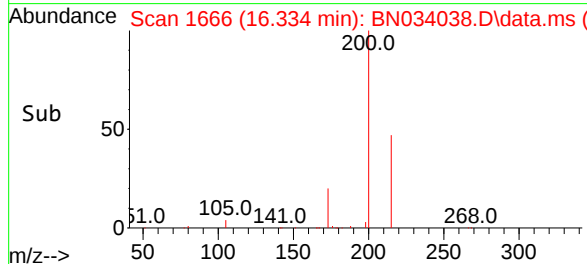
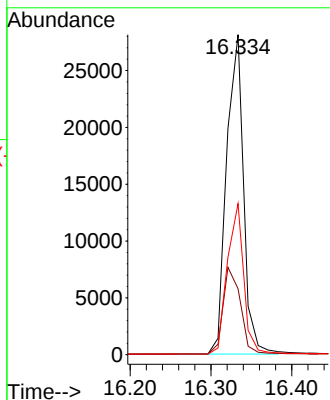
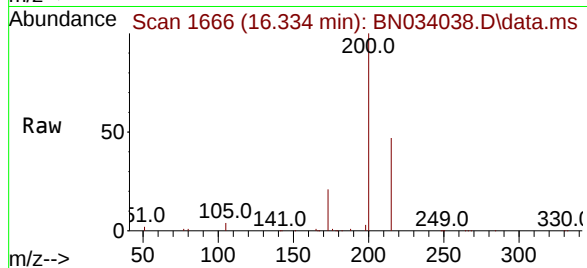




#23
Atrazine
Concen: 3.297 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

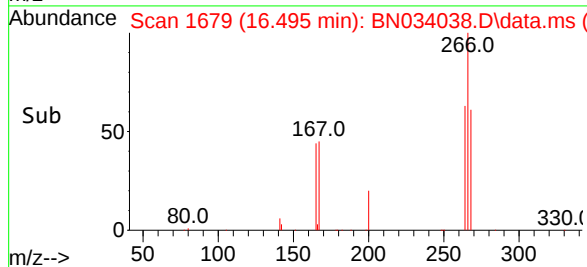
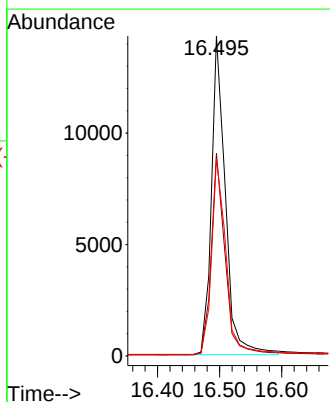
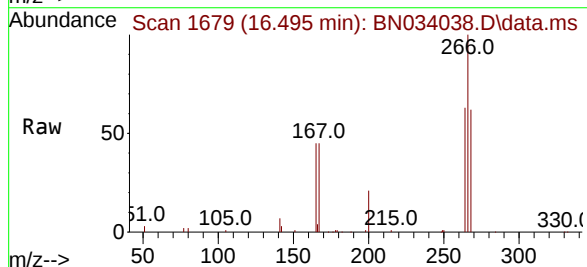
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

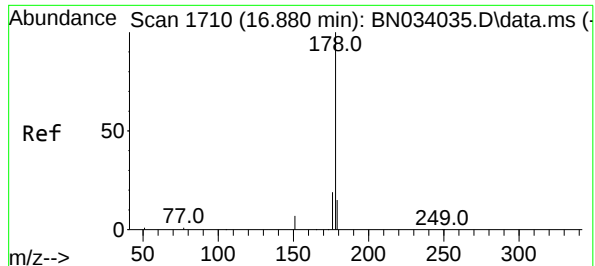
Tgt Ion:200 Resp: 40875
Ion Ratio Lower Upper
200 100
173 20.6 20.1 30.1
215 47.2 37.0 55.6



#24
Pentachlorophenol
Concen: 4.015 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:266 Resp: 22273
Ion Ratio Lower Upper
266 100
264 62.9 50.2 75.2
268 63.2 51.0 76.4

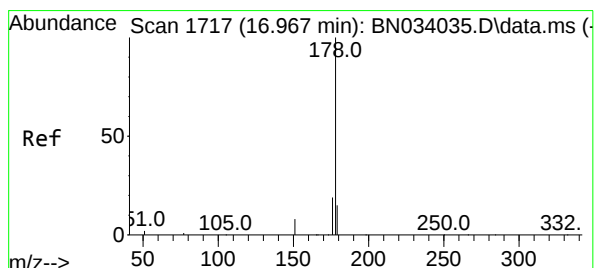
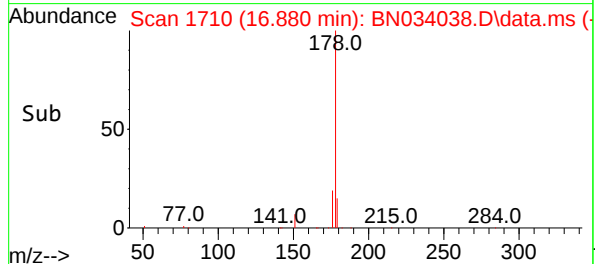
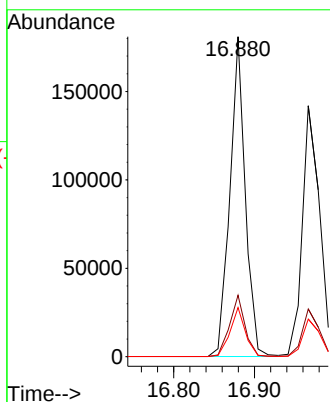
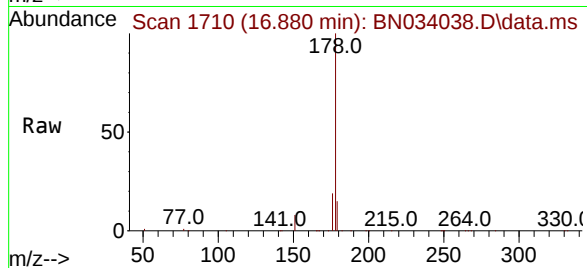




#25
Phenanthrene
Concen: 3.145 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

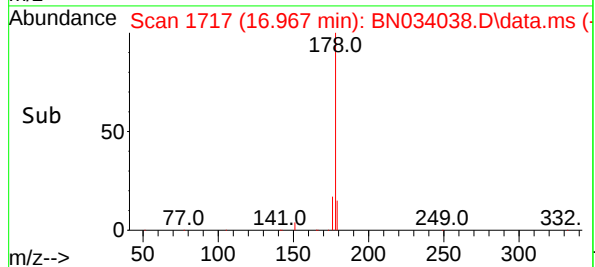
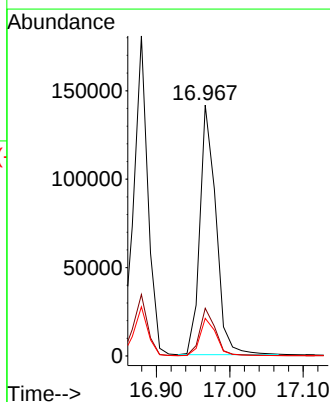
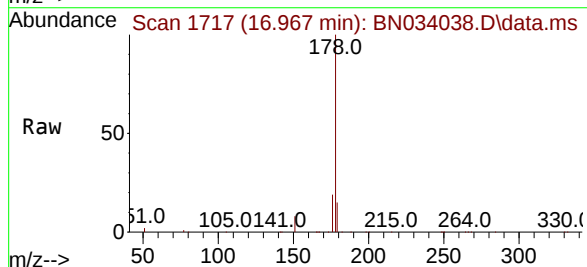
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

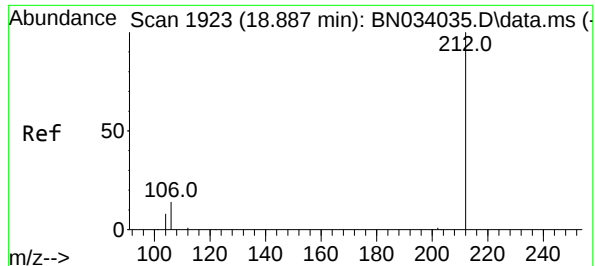
Tgt Ion:178 Resp: 240379
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.1 18.1



#26
Anthracene
Concen: 3.452 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:178 Resp: 215284
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 3.213 ng

RT: 18.887 min Scan# 1923

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

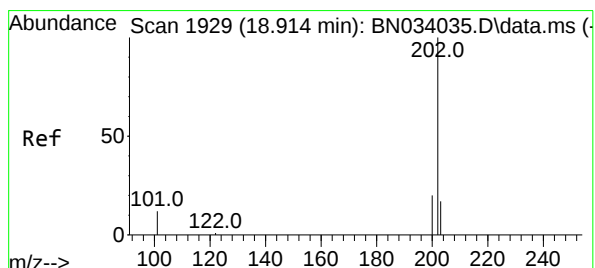
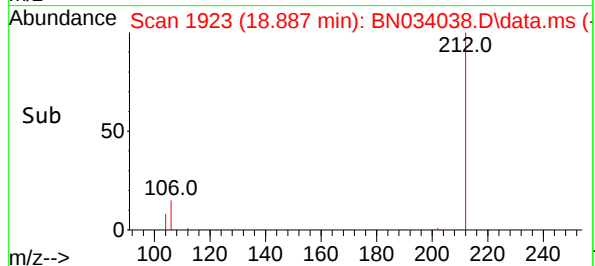
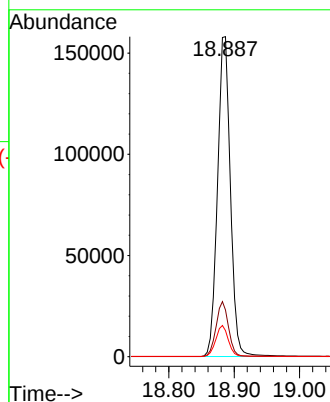
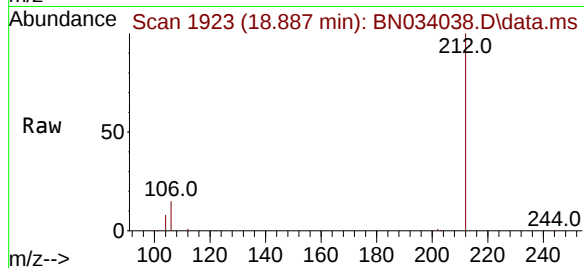
Tgt Ion:212 Resp: 215735

Ion Ratio Lower Upper

212 100

106 16.7 13.4 20.2

104 9.4 7.8 11.6



#28

Fluoranthene

Concen: 3.268 ng

RT: 18.914 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

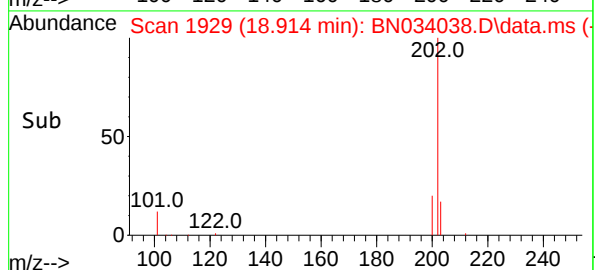
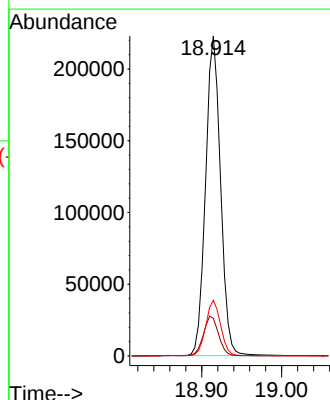
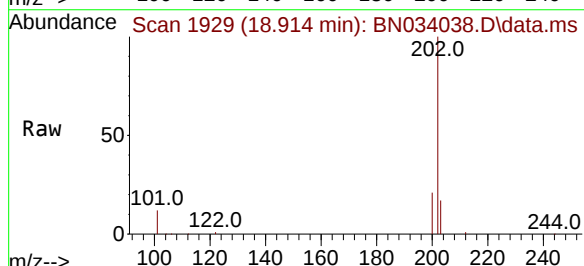
Tgt Ion:202 Resp: 289295

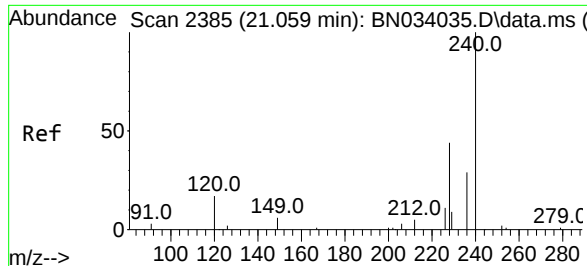
Ion Ratio Lower Upper

202 100

101 12.8 10.1 15.1

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

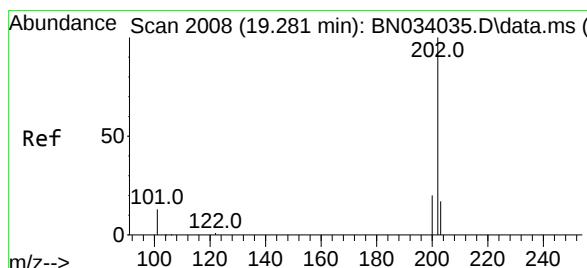
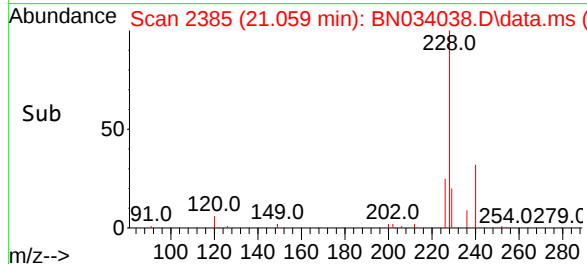
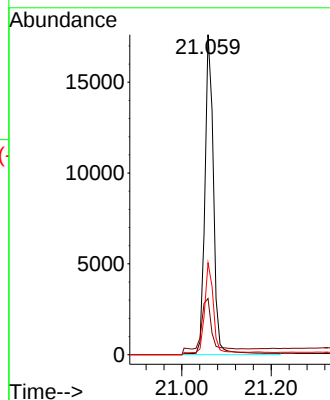
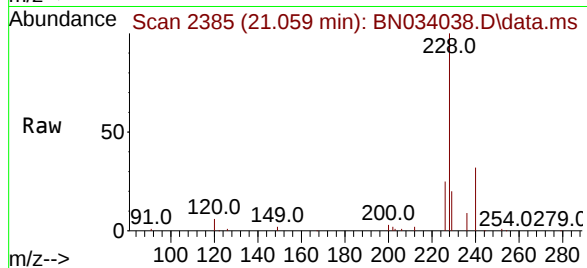
Tgt Ion:240 Resp: 22873

Ion Ratio Lower Upper

240 100

120 17.5 13.5 20.3

236 28.7 23.4 35.0



#30

Pyrene

Concen: 3.071 ng

RT: 19.281 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

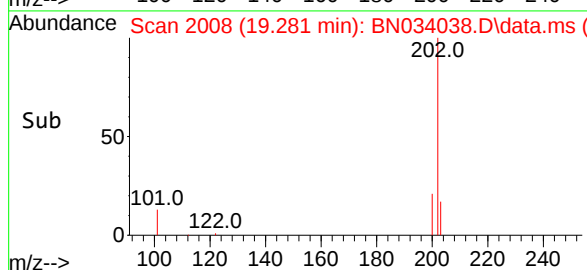
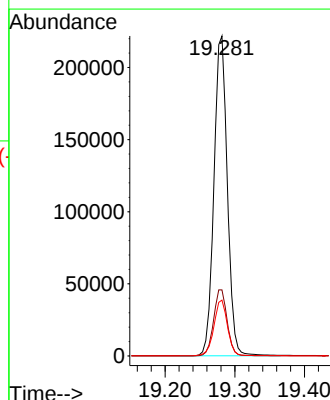
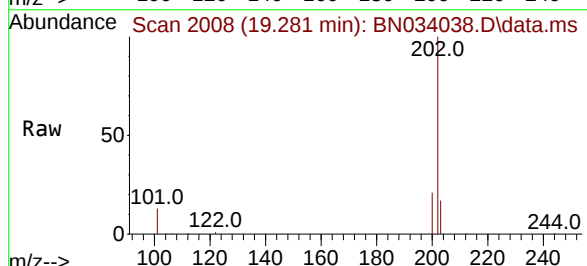
Tgt Ion:202 Resp: 296441

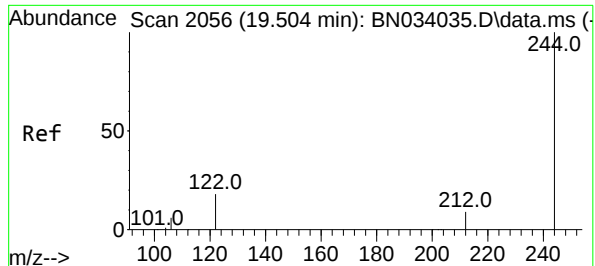
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.7 14.3 21.5

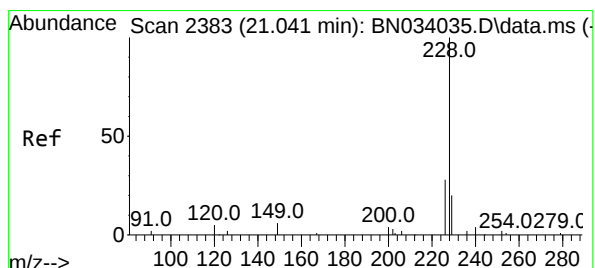
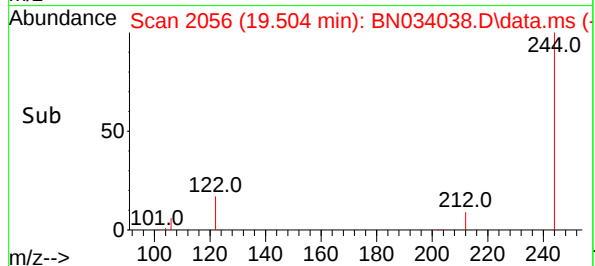
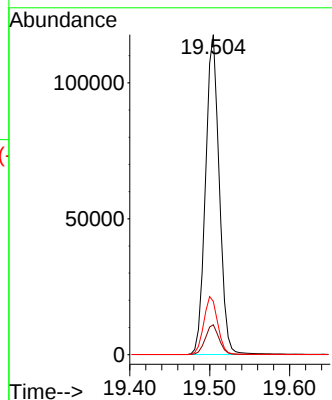
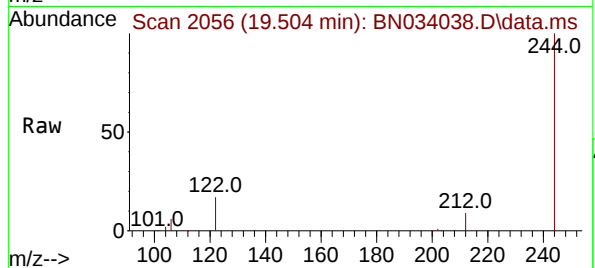




#31
Terphenyl-d14
Concen: 3.074 ng
RT: 19.504 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

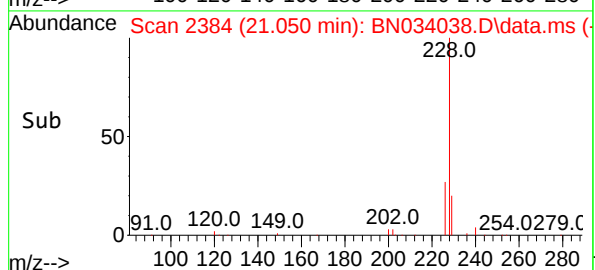
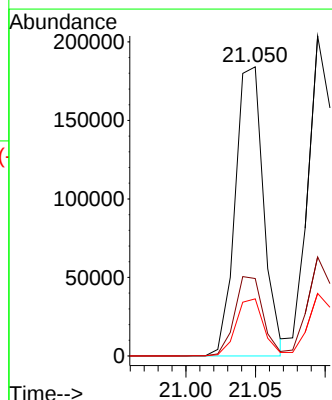
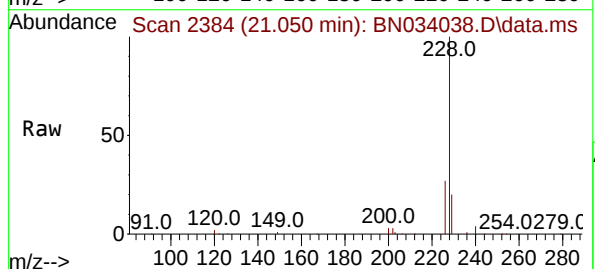
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

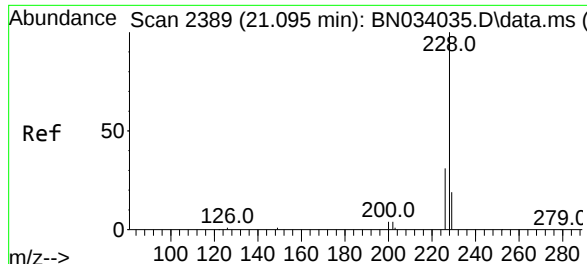
Tgt Ion:244 Resp: 140407
Ion Ratio Lower Upper
244 100
212 9.3 7.8 11.6
122 16.7 14.8 22.2



#32
Benzo(a)anthracene
Concen: 3.216 ng
RT: 21.050 min Scan# 2384
Delta R.T. 0.009 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:228 Resp: 232693
Ion Ratio Lower Upper
228 100
226 26.8 22.3 33.5
229 19.8 15.7 23.5





#33

Chrysene

Concen: 3.103 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

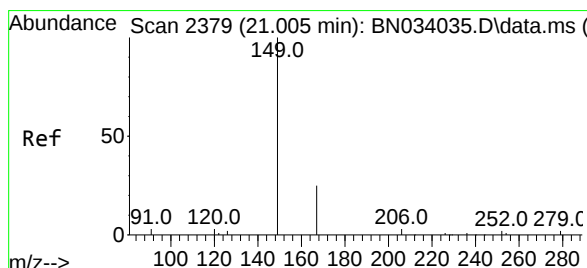
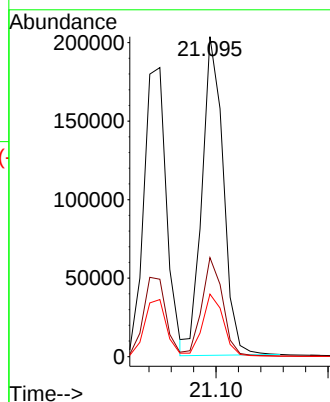
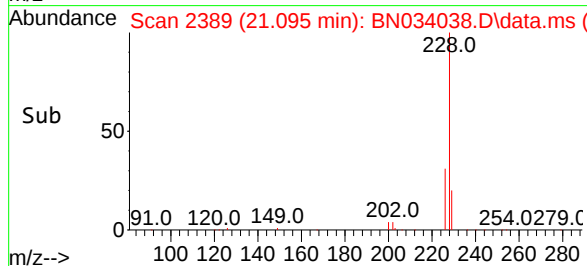
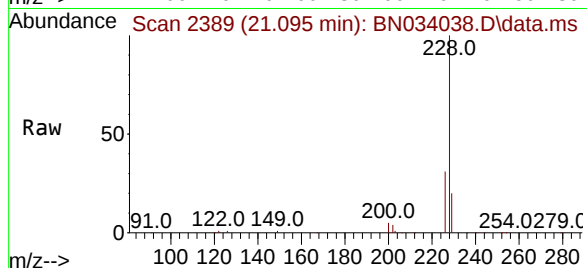
Tgt Ion:228 Resp: 267873

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.5 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.943 ng

RT: 21.014 min Scan# 2380

Delta R.T. 0.009 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

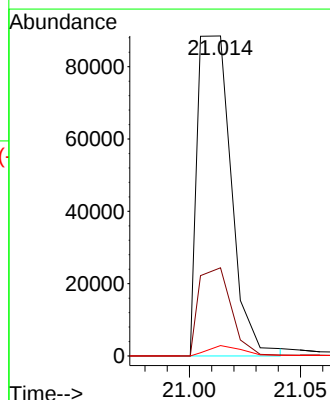
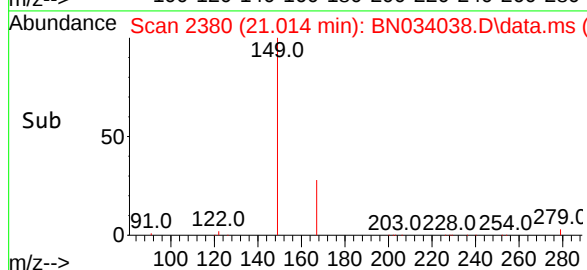
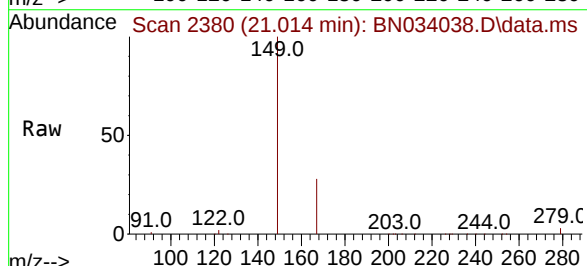
Tgt Ion:149 Resp: 88712

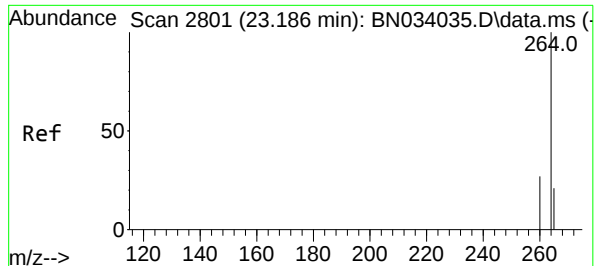
Ion Ratio Lower Upper

149 100

167 26.3 19.9 29.9

279 3.1 4.6 6.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.189 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034038.D

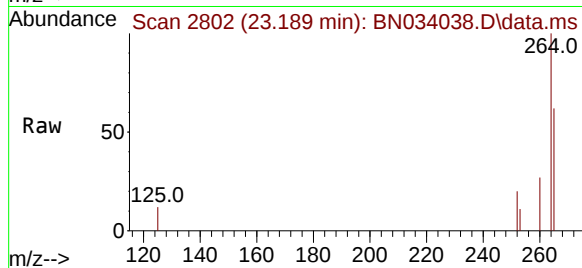
Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



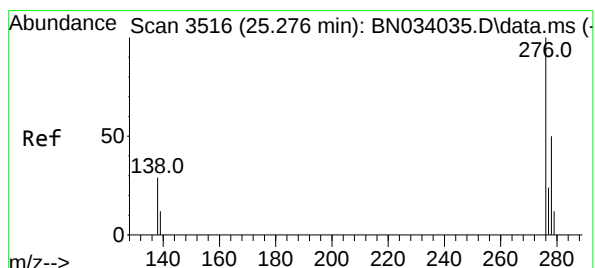
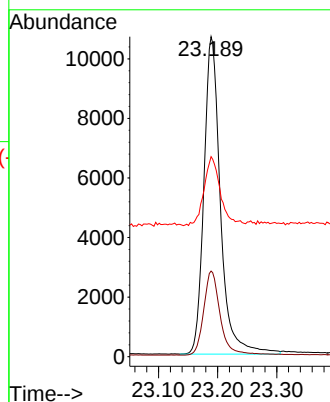
Tgt Ion:264 Resp: 20684

Ion Ratio Lower Upper

264 100

260 26.8 21.7 32.5

265 62.5 52.1 78.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.206 ng

RT: 25.279 min Scan# 3517

Delta R.T. 0.003 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

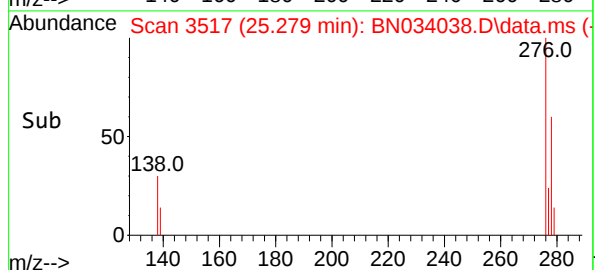
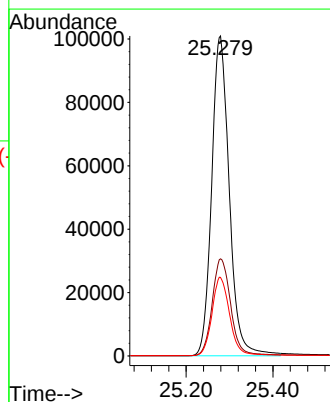
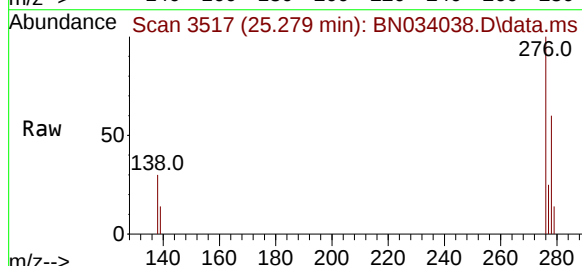
Tgt Ion:276 Resp: 284132

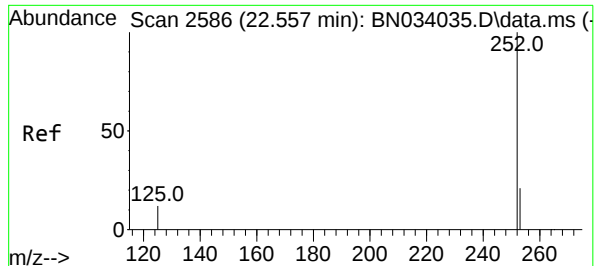
Ion Ratio Lower Upper

276 100

138 31.8 25.9 38.9

277 24.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.383 ng

RT: 22.560 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

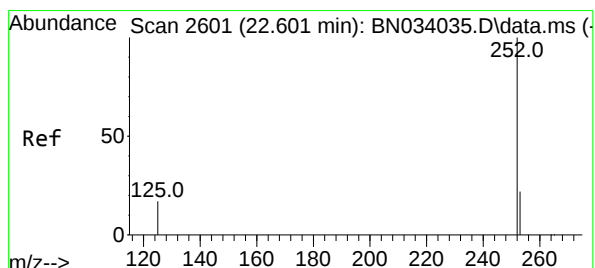
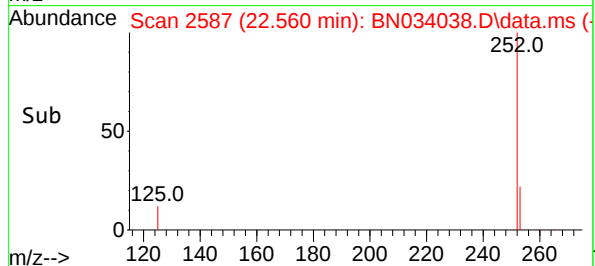
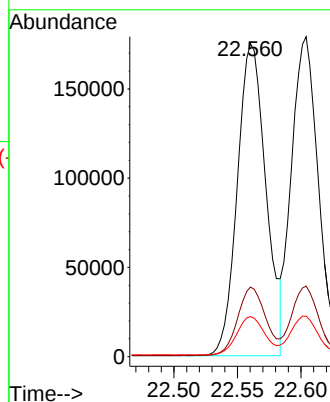
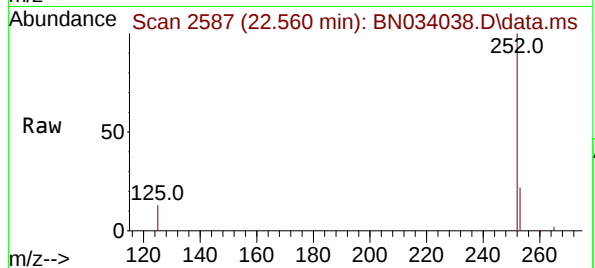
Tgt Ion:252 Resp: 274115

Ion Ratio Lower Upper

252 100

253 22.2 19.6 29.4

125 12.8 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 3.168 ng

RT: 22.604 min Scan# 2602

Delta R.T. 0.003 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

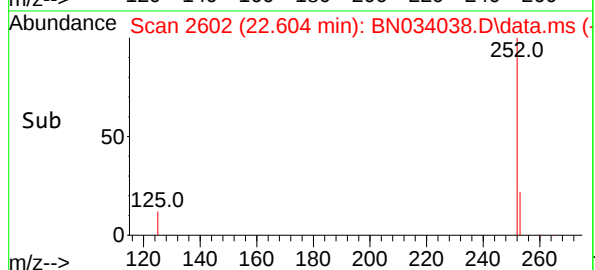
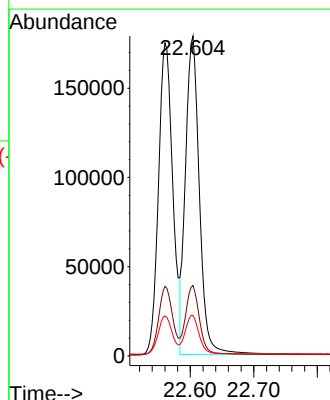
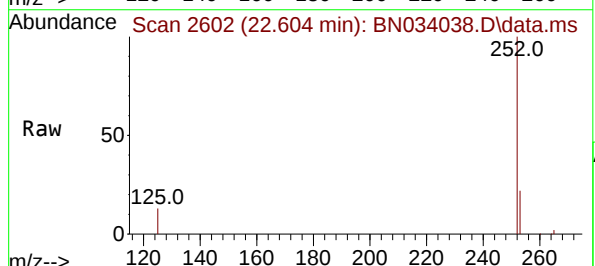
Tgt Ion:252 Resp: 269423

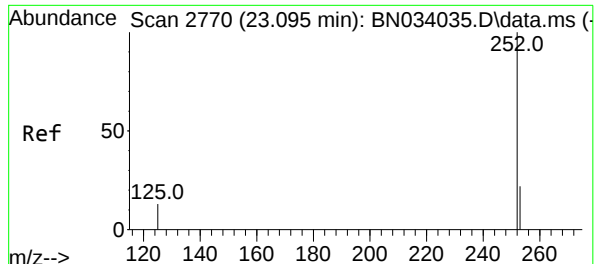
Ion Ratio Lower Upper

252 100

253 22.0 20.1 30.1

125 12.7 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 3.358 ng

RT: 23.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034038.D

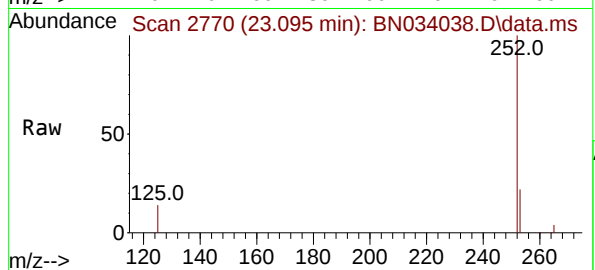
Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



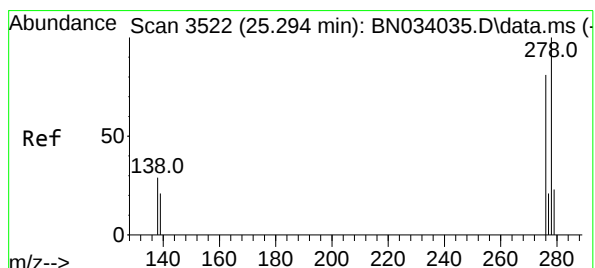
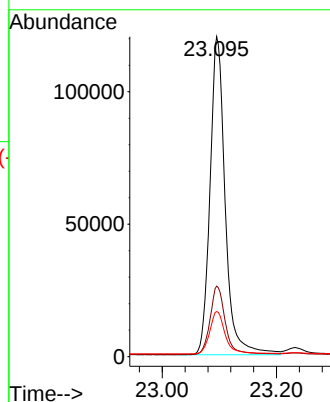
Tgt Ion:252 Resp: 221768

Ion Ratio Lower Upper

252 100

253 22.0 21.8 32.8

125 14.1 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 3.257 ng

RT: 25.294 min Scan# 3522

Delta R.T. 0.000 min

Lab File: BN034038.D

Acq: 18 Sep 2024 14:54

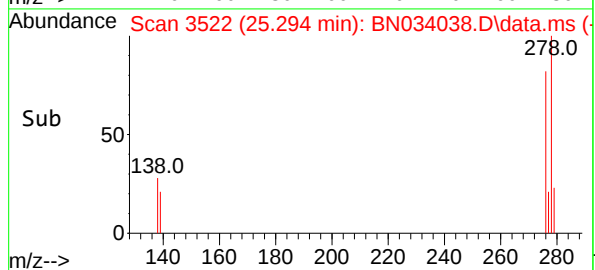
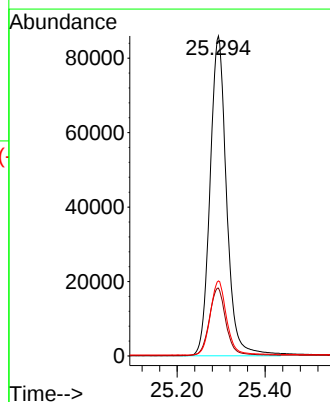
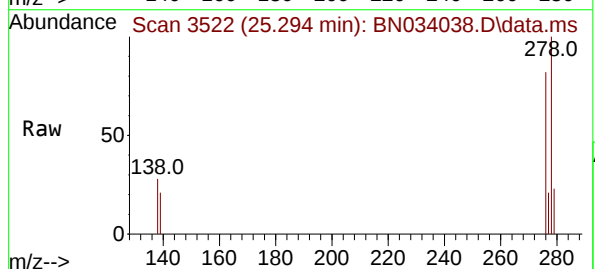
Tgt Ion:278 Resp: 224248

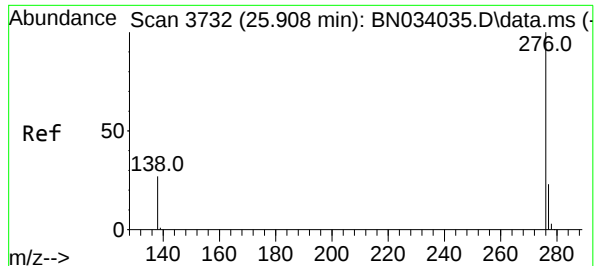
Ion Ratio Lower Upper

278 100

139 21.2 17.8 26.8

279 23.4 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 3.160 ng

RT: 25.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN034038.D

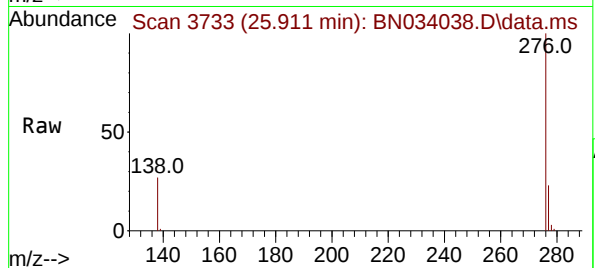
Acq: 18 Sep 2024 14:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



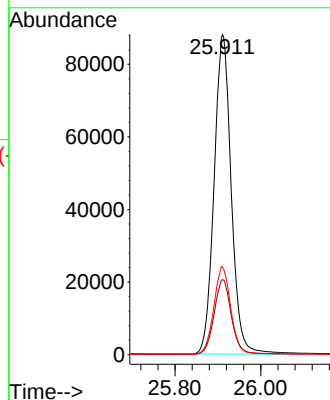
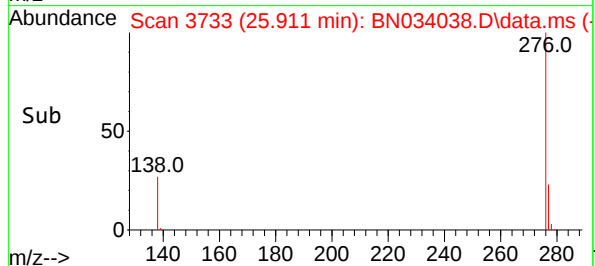
Tgt Ion:276 Resp: 244366

Ion Ratio Lower Upper

276 100

277 23.4 19.3 28.9

138 27.4 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034039.D
 Acq On : 18 Sep 2024 15:30
 Operator : JU/RC
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 18 16:17:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

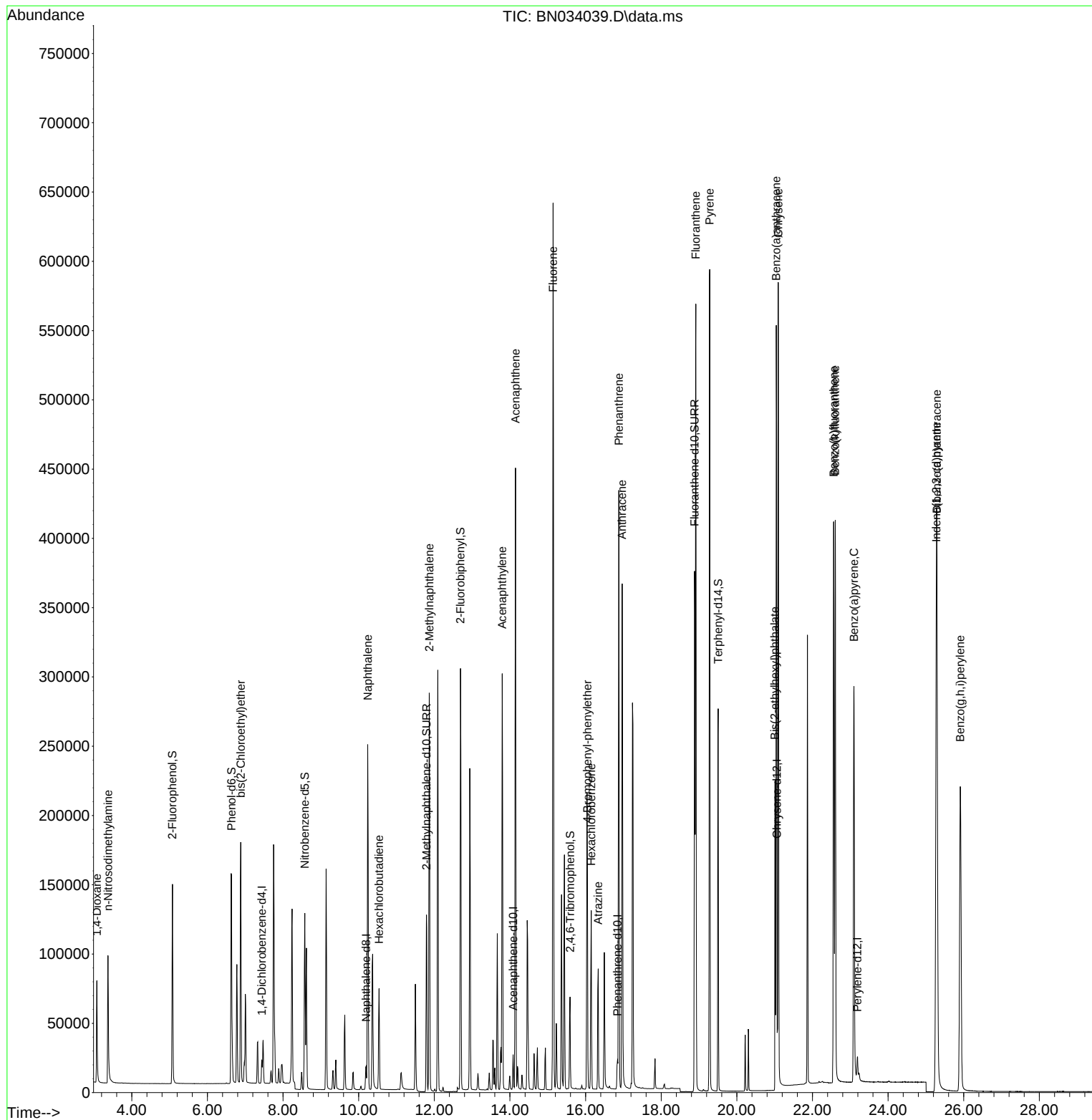
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.437	152	7777	0.400	ng	0.00
7) Naphthalene-d8	10.197	136	22212	0.400	ng	0.00
13) Acenaphthene-d10	14.082	164	13128	0.400	ng	0.00
19) Phenanthrene-d10	16.843	188	28109	0.400	ng	0.00
29) Chrysene-d12	21.059	240	24472	0.400	ng	0.00
35) Perylene-d12	23.189	264	21702	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.075	112	105855	4.796	ng	0.00
5) Phenol-d6	6.635	99	138167	5.382	ng	0.00
8) Nitrobenzene-d5	8.574	82	93192	5.485	ng	0.00
11) 2-Methylnaphthalene-d10	11.794	152	169448	5.166	ng	0.00
14) 2,4,6-Tribromophenol	15.589	330	36052	6.062	ng	0.00
15) 2-Fluorobiphenyl	12.692	172	261776	4.903	ng	-0.01
27) Fluoranthene-d10	18.882	212	376792	5.313	ng	0.00
31) Terphenyl-d14	19.505	244	241874	4.949	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.074	88	43217	4.445	ng	94
3) n-Nitrosodimethylamine	3.371	42	53717	4.854	ng	# 97
6) bis(2-Chloroethyl)ether	6.881	93	112939	4.972	ng	98
9) Naphthalene	10.240	128	301970	4.954	ng	99
10) Hexachlorobutadiene	10.539	225	54229	4.722	ng	# 99
12) 2-Methylnaphthalene	11.869	142	204358	5.151	ng	98
16) Acenaphthylene	13.793	152	314757	5.601	ng	100
17) Acenaphthene	14.146	154	203453	5.048	ng	98
18) Fluorene	15.140	166	265939	5.028	ng	99
21) 4-Bromophenyl-phenylether	16.048	248	82958	5.250	ng	# 92
22) Hexachlorobenzene	16.147	284	89079	5.028	ng	99
23) Atrazine	16.334	200	71154	5.434	ng	97
25) Phenanthrene	16.880	178	412524	5.111	ng	100
26) Anthracene	16.967	178	376171	5.711	ng	100
28) Fluoranthene	18.915	202	493549	5.278	ng	99
30) Pyrene	19.282	202	510885	4.946	ng	100
32) Benzo(a)anthracene	21.041	228	412990	5.334	ng	99
33) Chrysene	21.095	228	461460	4.996	ng	100
34) Bis(2-ethylhexyl)phtha...	21.005	149	167044	5.180	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.273	276	473110	5.088	ng	99
37) Benzo(b)fluoranthene	22.560	252	460182	5.413	ng	# 92
38) Benzo(k)fluoranthene	22.601	252	461573	5.172	ng	# 88
39) Benzo(a)pyrene	23.095	252	382292	5.517	ng	# 87
40) Dibenzo(a,h)anthracene	25.291	278	371244	5.139	ng	96
41) Benzo(g,h,i)perylene	25.908	276	404439	4.985	ng	98

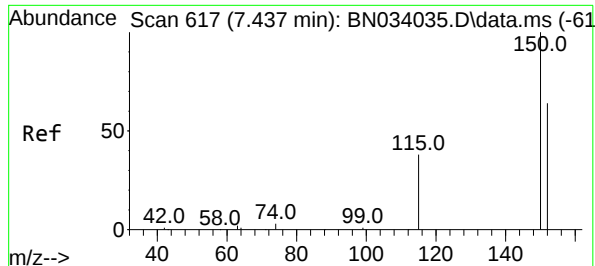
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034039.D
Acq On : 18 Sep 2024 15:30
Operator : JU/RC
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 18 16:17:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

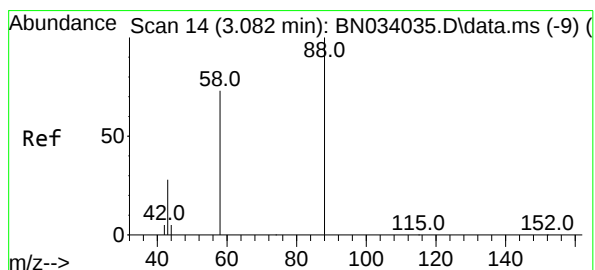
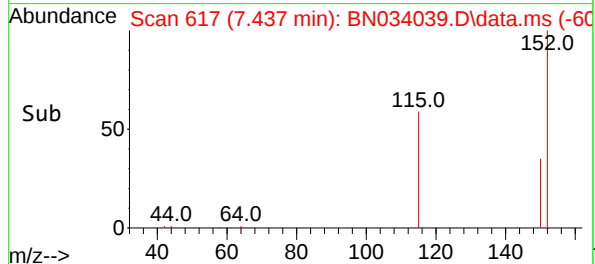
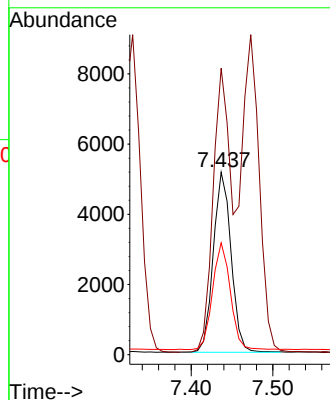
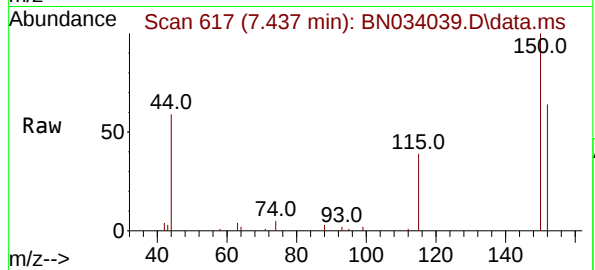




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

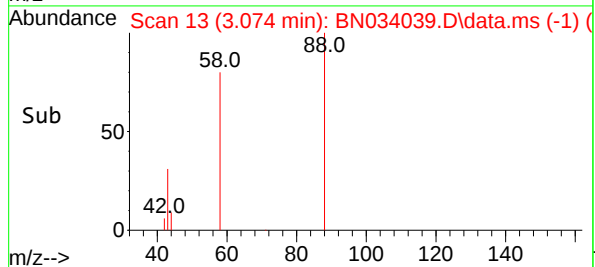
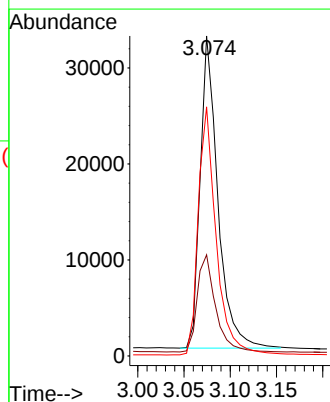
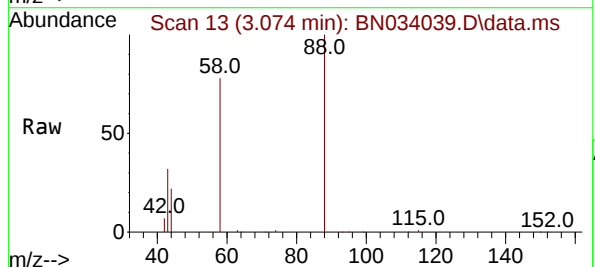
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

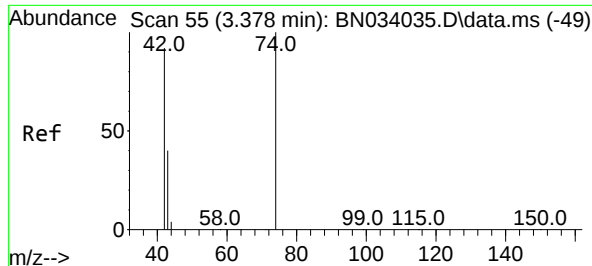
Tgt Ion:152 Resp: 7777
Ion Ratio Lower Upper
152 100
150 157.0 124.6 187.0
115 61.3 50.0 75.0



#2
1,4-Dioxane
Concen: 4.445 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 88 Resp: 43217
Ion Ratio Lower Upper
88 100
43 32.2 25.8 38.8
58 80.9 58.8 88.2

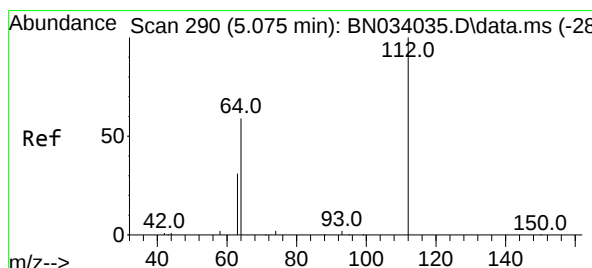
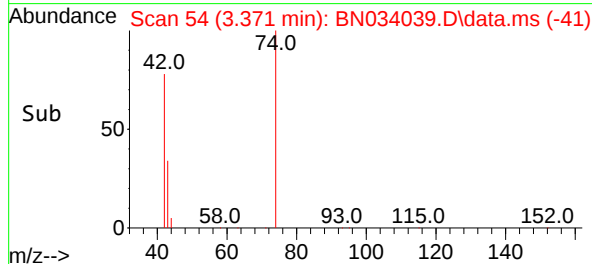
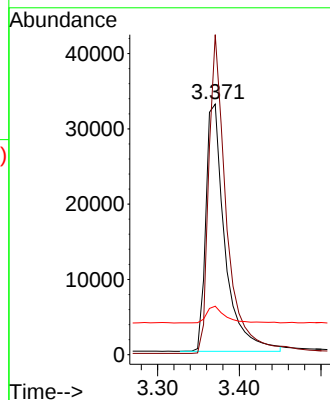
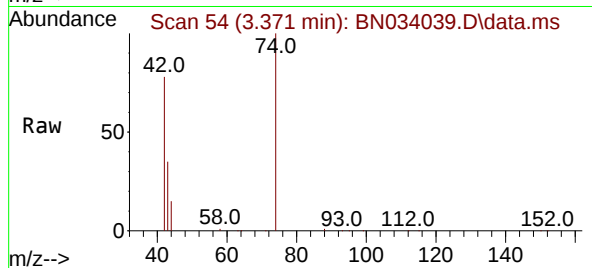




#3
n-Nitrosodimethylamine
Concen: 4.854 ng
RT: 3.371 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

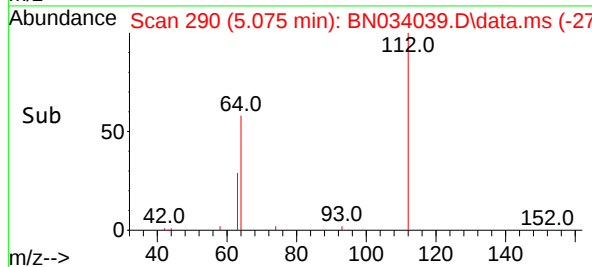
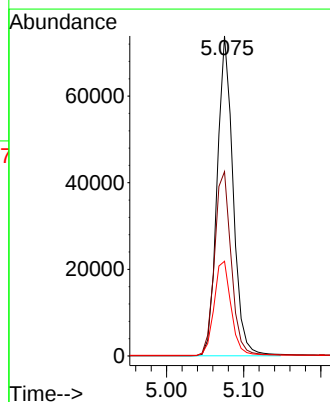
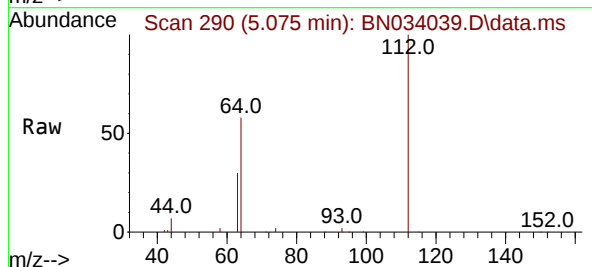
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

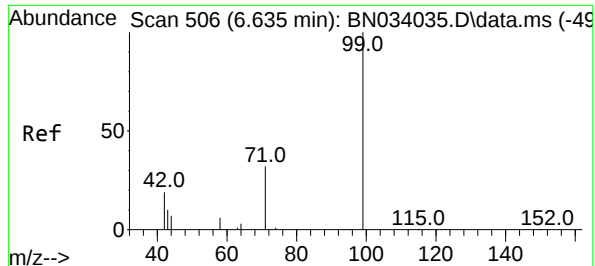
Tgt Ion: 42 Resp: 53717
Ion Ratio Lower Upper
42 100
74 118.8 94.6 142.0
44 6.7 12.4 18.6#



#4
2-Fluorophenol
Concen: 4.796 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 112 Resp: 105855
Ion Ratio Lower Upper
112 100
64 60.3 48.6 72.8
63 31.3 25.6 38.4

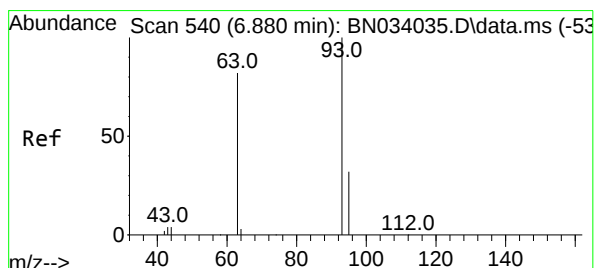
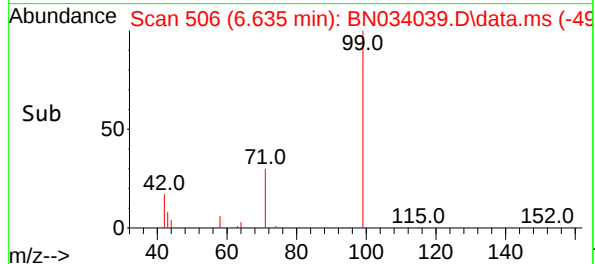
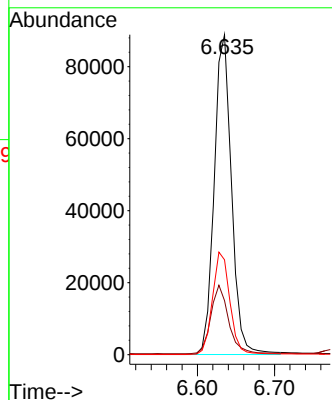
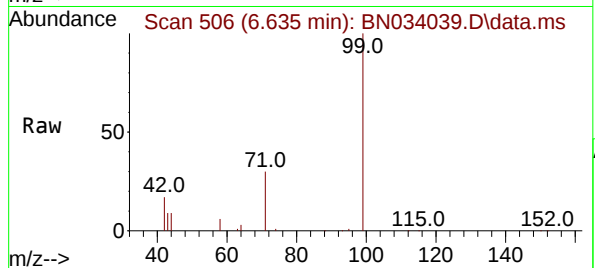




#5
Phenol-d6
Concen: 5.382 ng
RT: 6.635 min Scan# 506
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

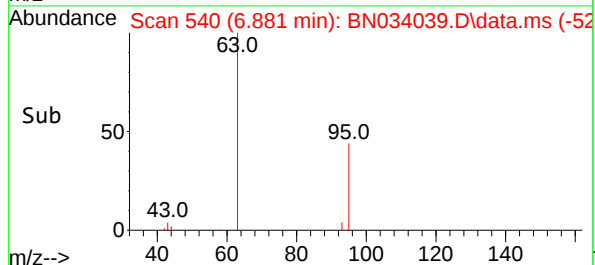
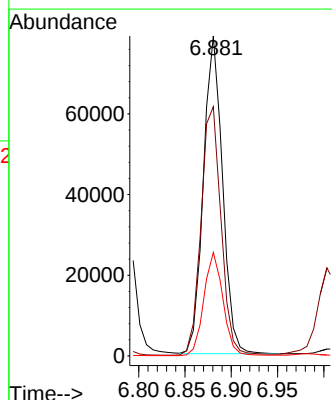
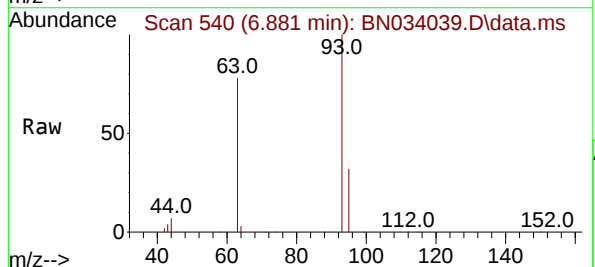
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

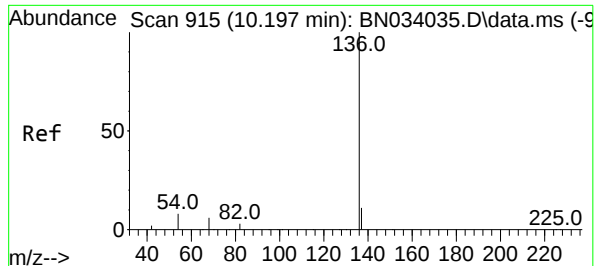
Tgt Ion: 99 Resp: 138167
Ion Ratio Lower Upper
99 100
42 21.9 17.8 26.8
71 32.2 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 4.972 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 93 Resp: 112939
Ion Ratio Lower Upper
93 100
63 82.0 67.3 100.9
95 32.5 26.8 40.2



#7
Naphthalene-d8

Concen: 0.400 ng

RT: 10.197 min Scan# 915

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:136 Resp: 22212

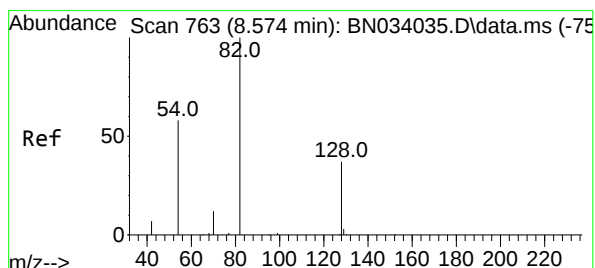
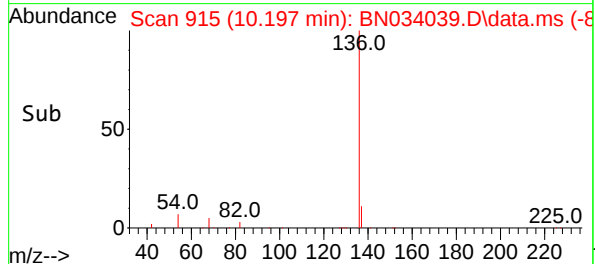
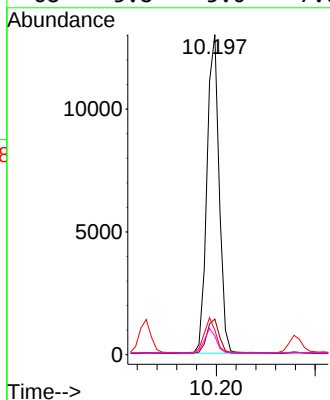
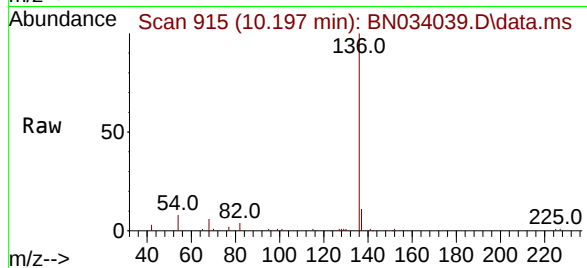
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.6

54 7.7 6.8 10.2

68 5.8 5.0 7.6



#8

Nitrobenzene-d5

Concen: 5.485 ng

RT: 8.574 min Scan# 763

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

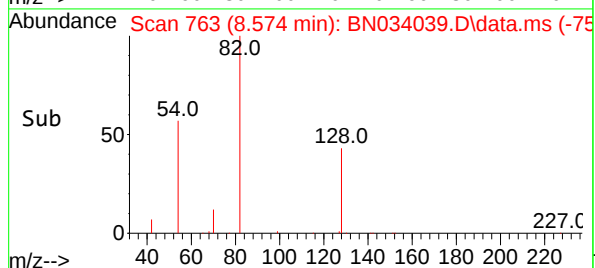
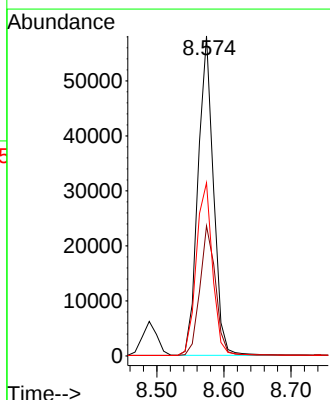
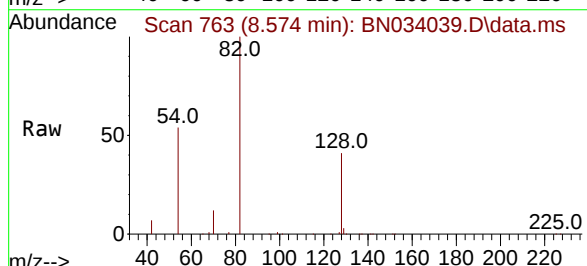
Tgt Ion: 82 Resp: 93192

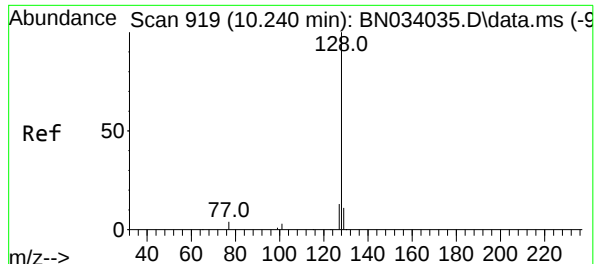
Ion Ratio Lower Upper

82 100

128 40.7 31.4 47.2

54 54.1 47.4 71.0

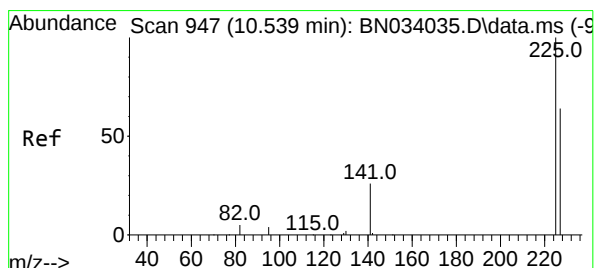
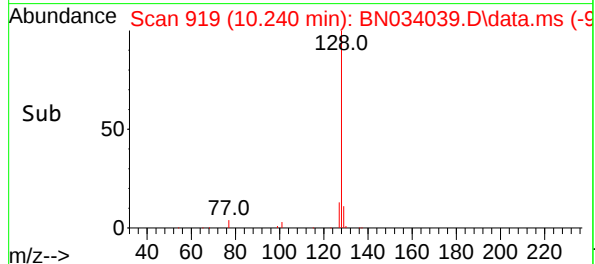
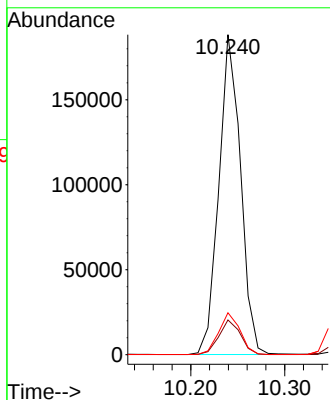
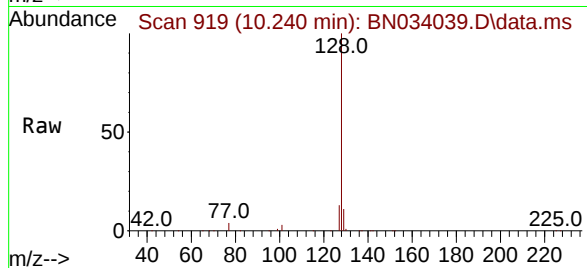




#9
Naphthalene
Concen: 4.954 ng
RT: 10.240 min Scan# 919
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

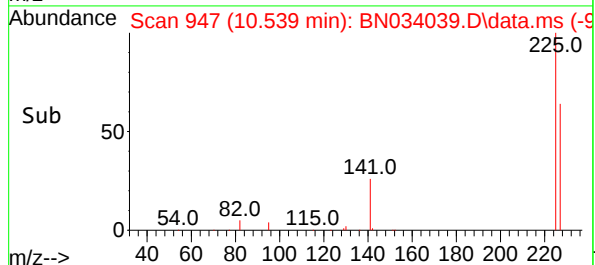
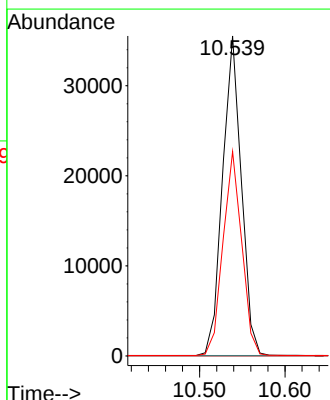
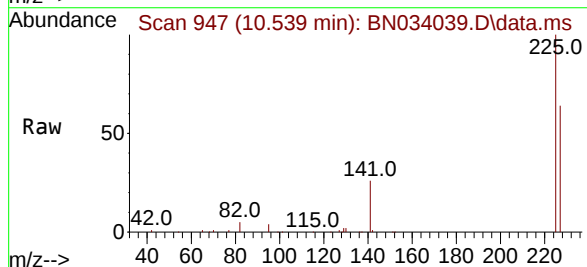
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

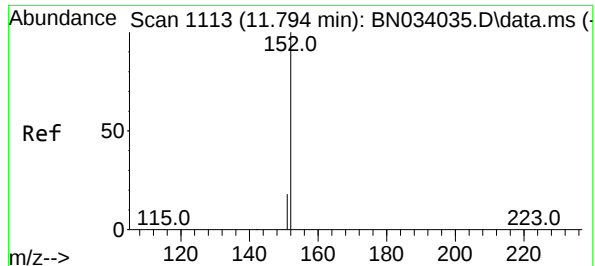
Tgt Ion:128 Resp: 301970
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 13.1 10.7 16.1



#10
Hexachlorobutadiene
Concen: 4.722 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:225 Resp: 54229
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.5 75.7

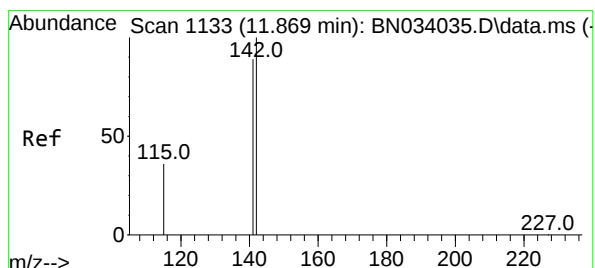
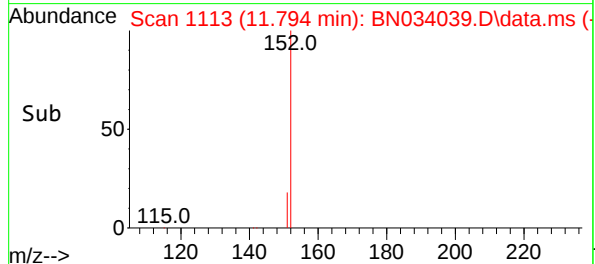
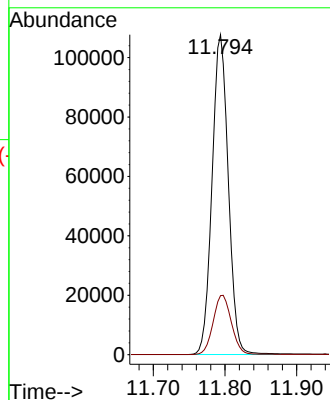
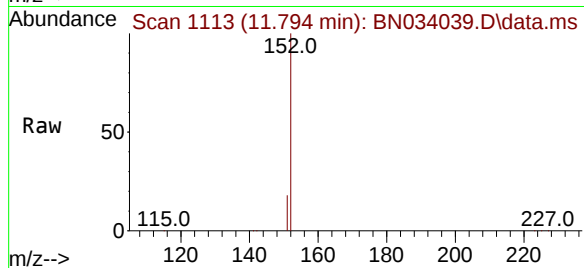




#11
2-Methylnaphthalene-d10
Concen: 5.166 ng
RT: 11.794 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

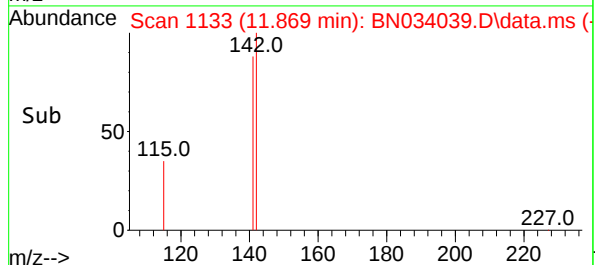
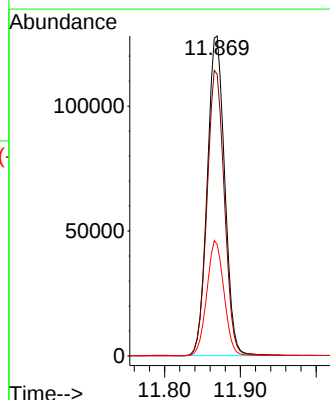
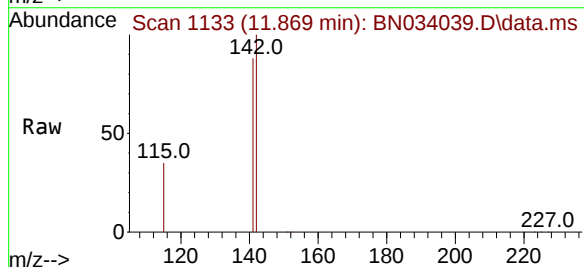
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

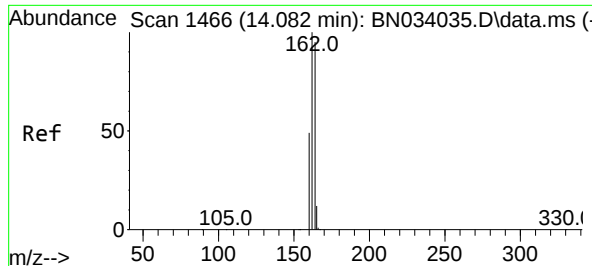
Tgt Ion:152 Resp: 169448
Ion Ratio Lower Upper
152 100
151 20.7 16.8 25.2



#12
2-Methylnaphthalene
Concen: 5.151 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:142 Resp: 204358
Ion Ratio Lower Upper
142 100
141 88.1 71.6 107.4
115 34.9 30.0 45.0

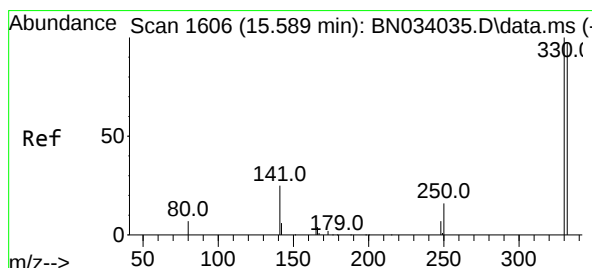
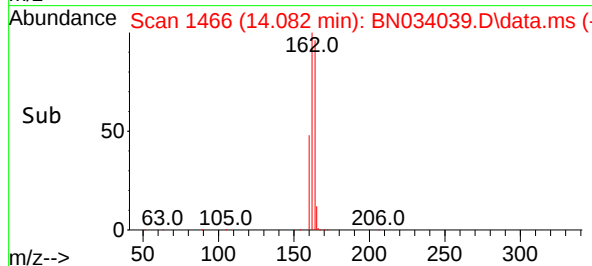
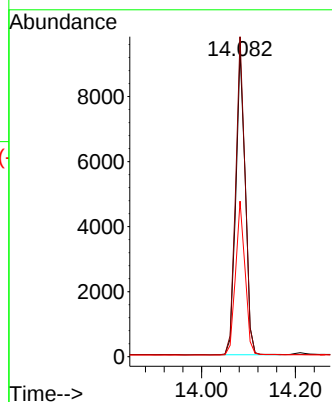
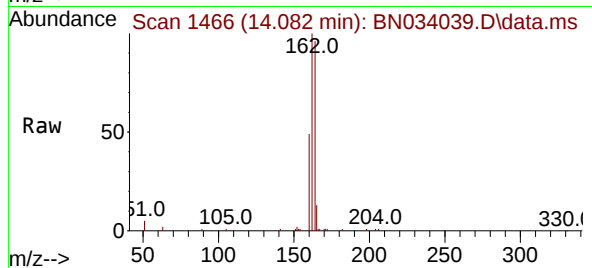




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

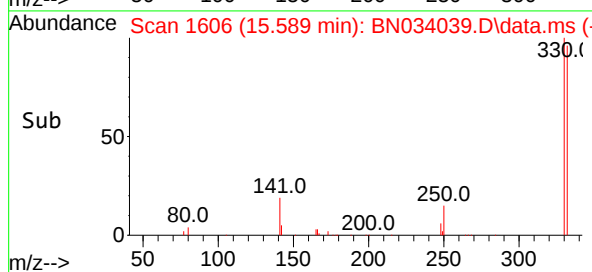
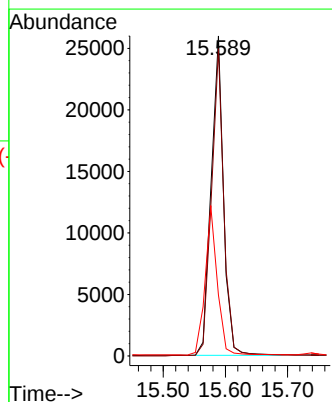
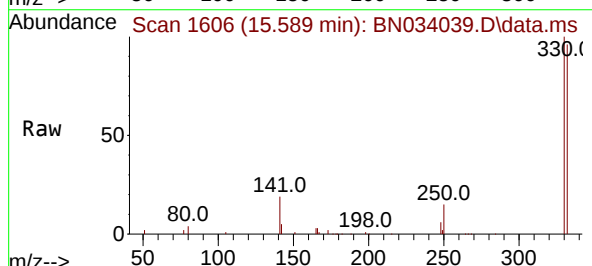
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

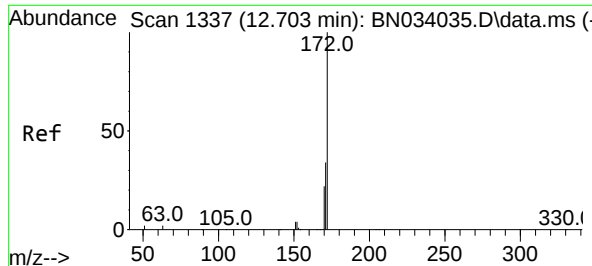
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.2	126.2
160	50.9	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 6.062 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.4	116.0
141	45.4	35.9	53.9

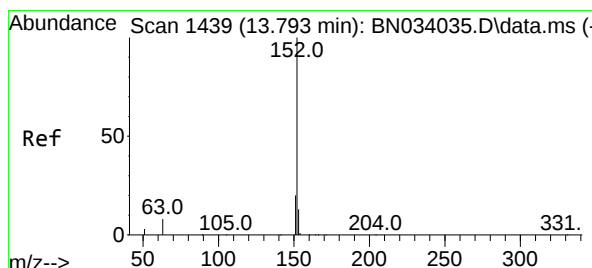
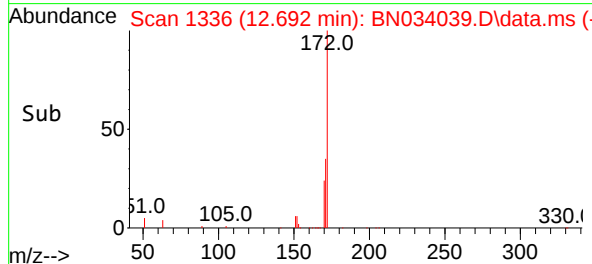
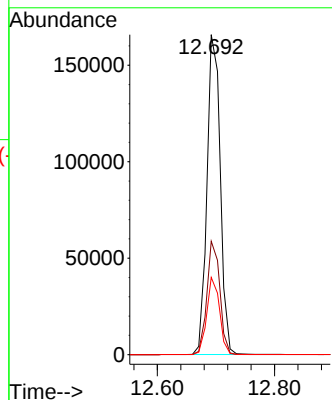
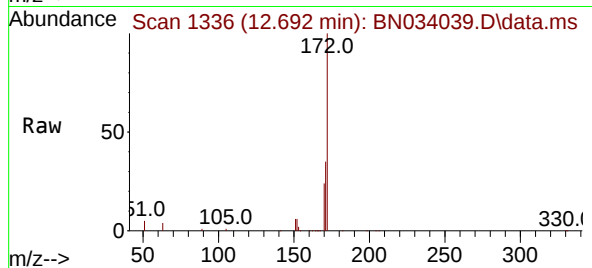




#15
2-Fluorobiphenyl
Concen: 4.903 ng
RT: 12.692 min Scan# 1336
Delta R.T. -0.011 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

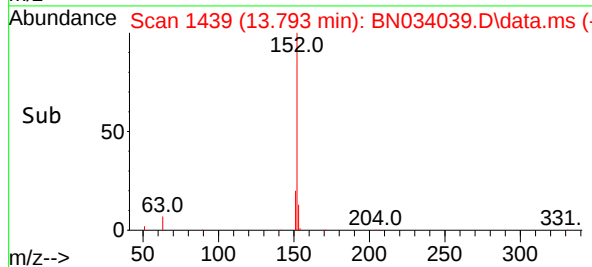
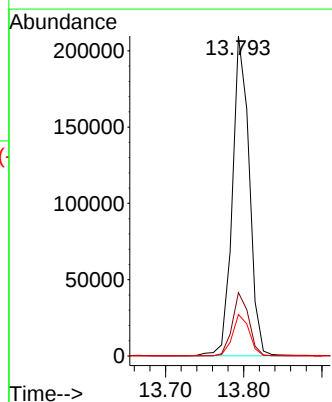
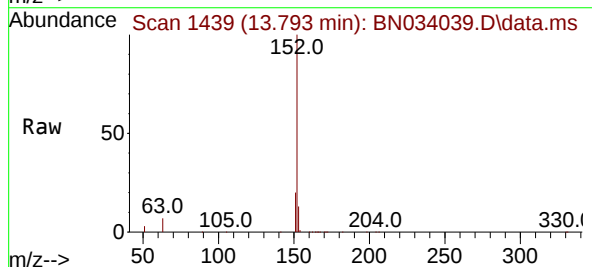
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

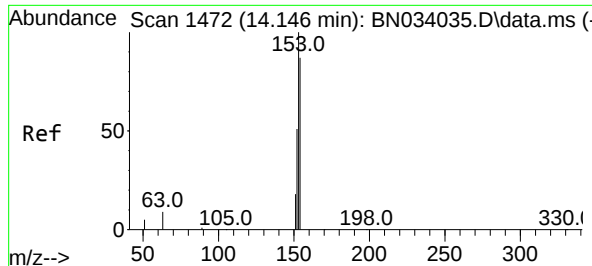
Tgt Ion:172 Resp: 261776
Ion Ratio Lower Upper
172 100
171 35.5 27.3 40.9
170 24.2 18.1 27.1



#16
Acenaphthylene
Concen: 5.601 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:152 Resp: 314757
Ion Ratio Lower Upper
152 100
151 19.3 15.6 23.4
153 12.9 10.3 15.5

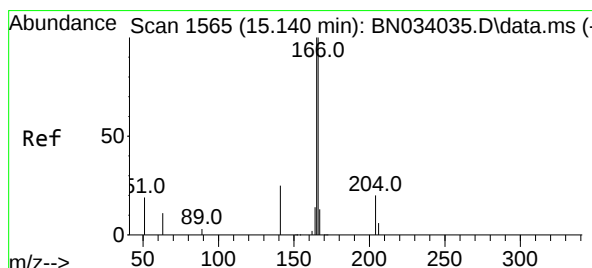
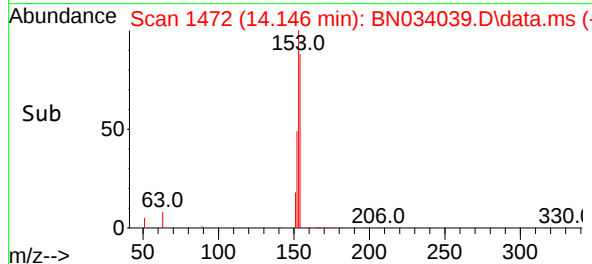
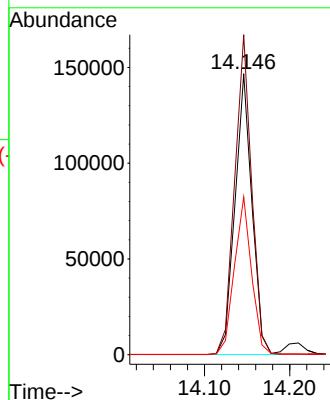
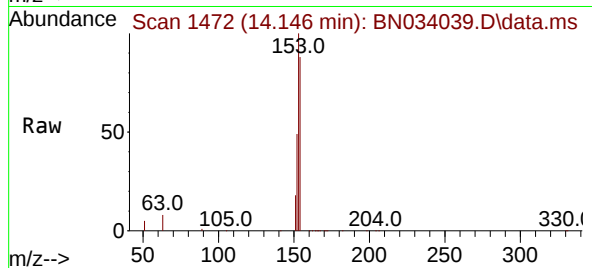




#17
Acenaphthene
Concen: 5.048 ng
RT: 14.146 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

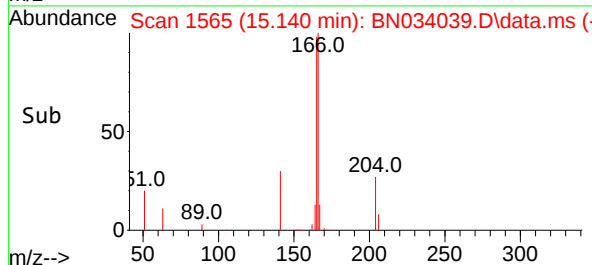
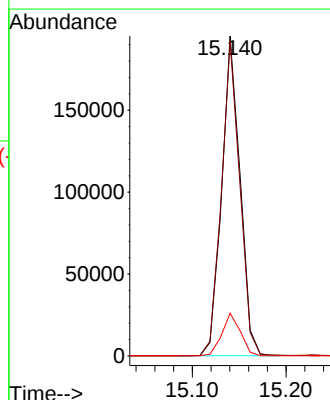
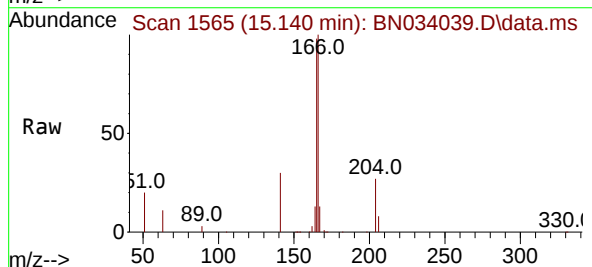
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

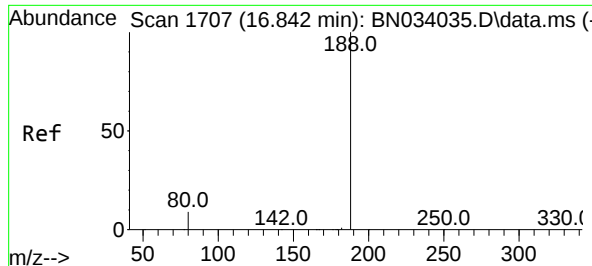
Tgt Ion:154 Resp: 203453
Ion Ratio Lower Upper
154 100
153 113.5 91.6 137.4
152 56.5 47.4 71.2



#18
Fluorene
Concen: 5.028 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:166 Resp: 265939
Ion Ratio Lower Upper
166 100
165 98.2 79.1 118.7
167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.843 min Scan# 1707

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

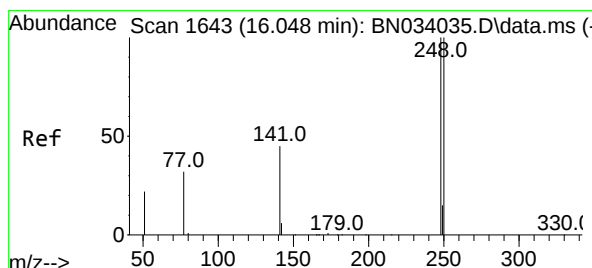
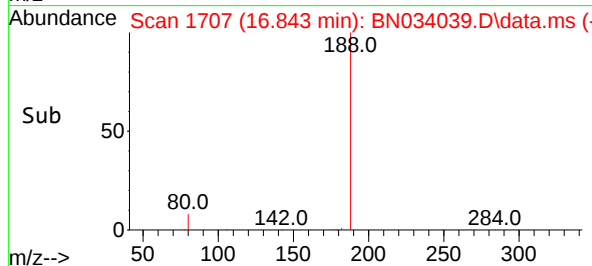
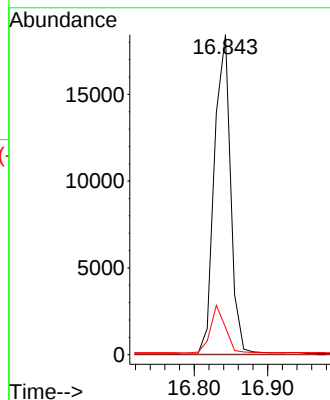
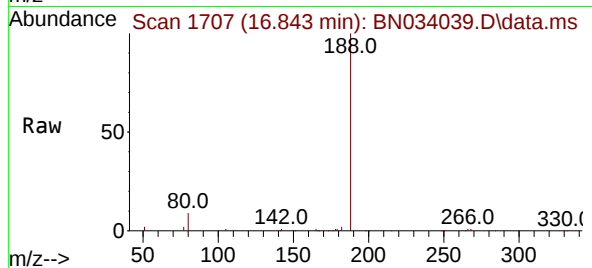
Tgt Ion:188 Resp: 28109

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 7.4 11.0



#21

4-Bromophenyl-phenylether

Concen: 5.250 ng

RT: 16.048 min Scan# 1643

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

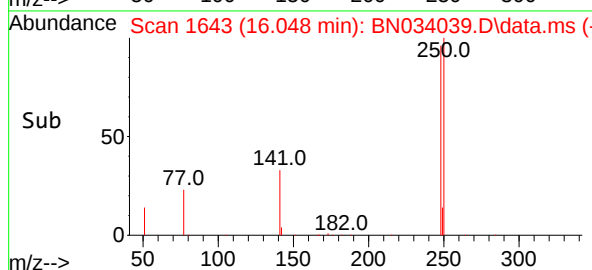
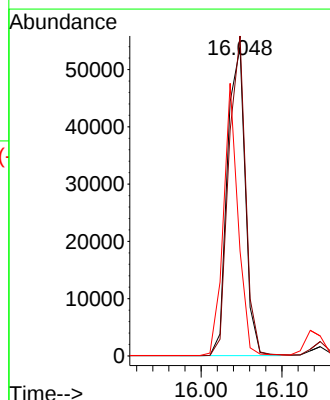
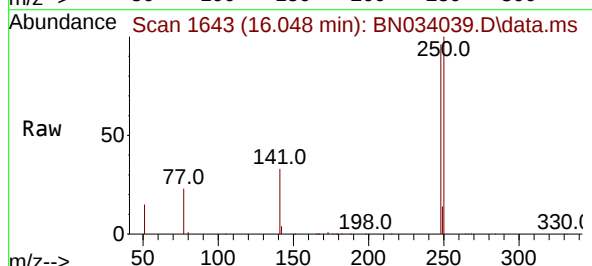
Tgt Ion:248 Resp: 82958

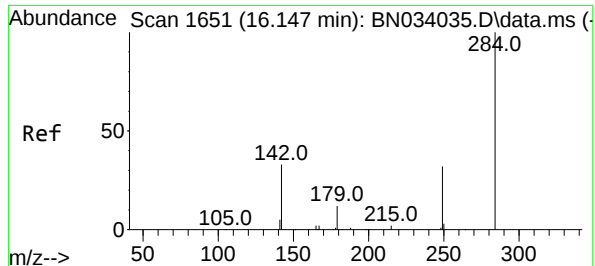
Ion Ratio Lower Upper

248 100

250 103.7 80.5 120.7

141 34.0 37.1 55.7#





#22

Hexachlorobenzene

Concen: 5.028 ng

RT: 16.147 min Scan# 1651

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

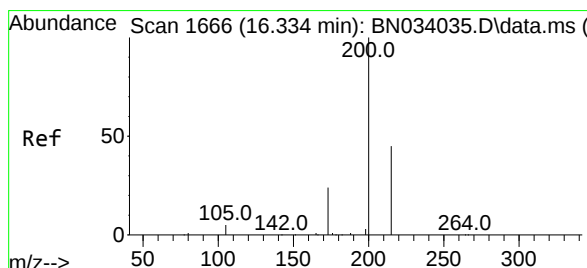
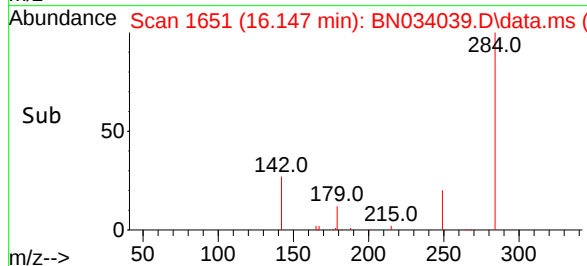
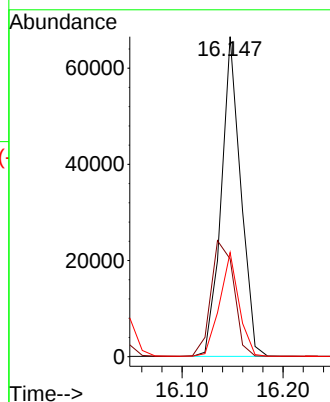
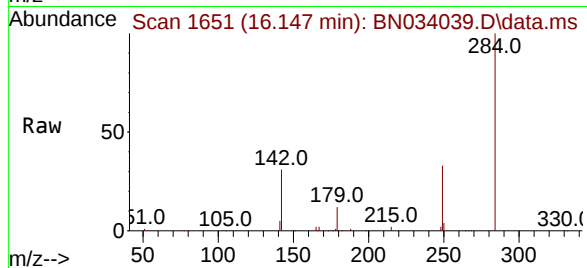
Tgt Ion:284 Resp: 89079

Ion Ratio Lower Upper

284 100

142 42.4 34.5 51.7

249 32.1 25.8 38.6



#23

Atrazine

Concen: 5.434 ng

RT: 16.334 min Scan# 1666

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

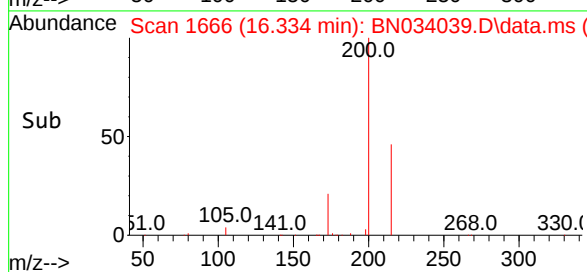
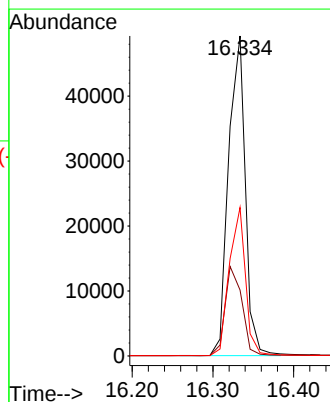
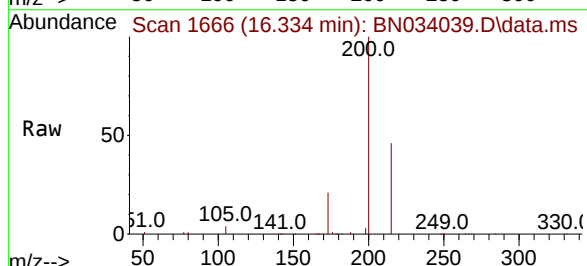
Tgt Ion:200 Resp: 71154

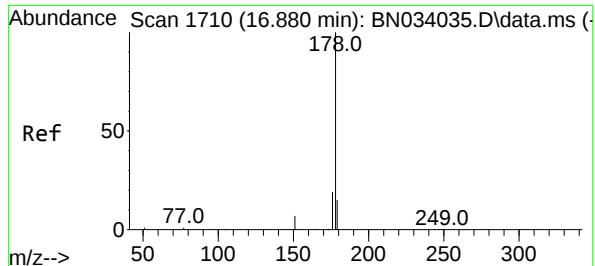
Ion Ratio Lower Upper

200 100

173 20.6 20.1 30.1

215 46.4 37.0 55.6

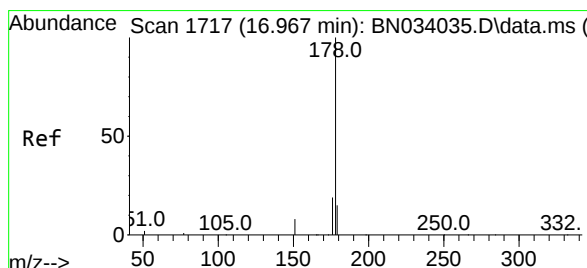
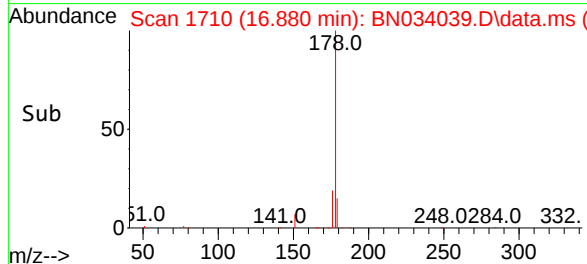
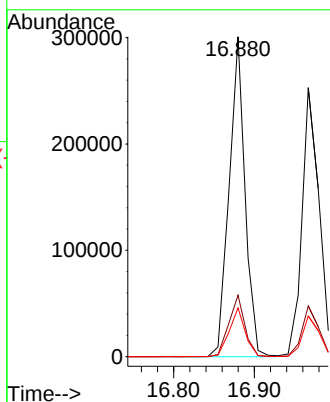
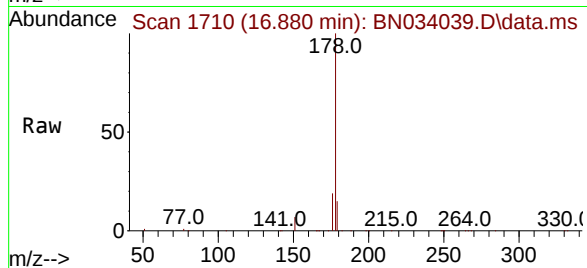




#25
Phenanthrene
Concen: 5.111 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

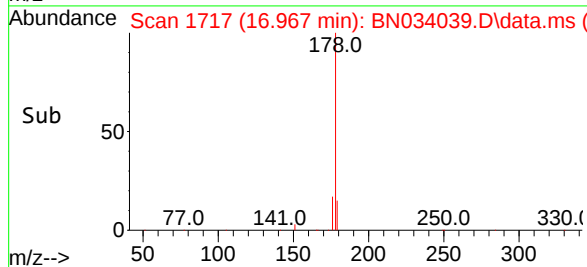
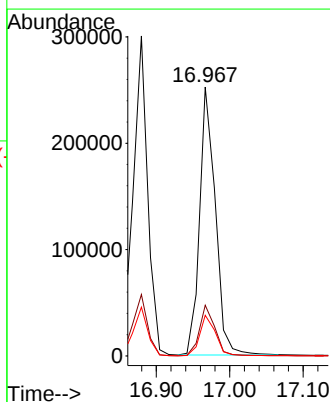
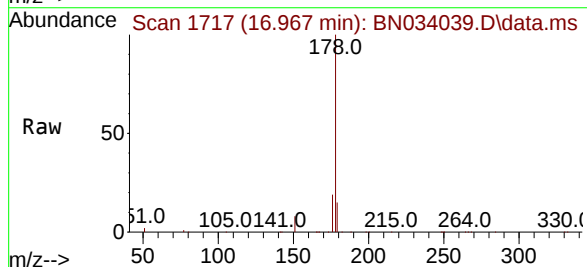
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

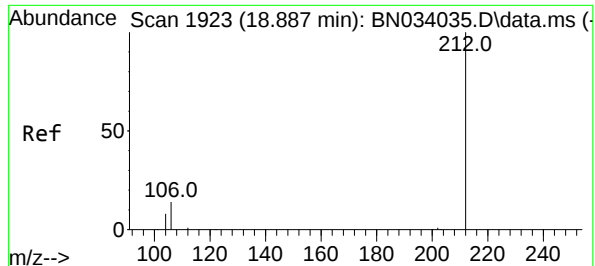
Tgt Ion:178 Resp: 412524
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.2 12.1 18.1



#26
Anthracene
Concen: 5.711 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:178 Resp: 376171
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 5.313 ng

RT: 18.882 min Scan# 1923

Delta R.T. -0.005 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

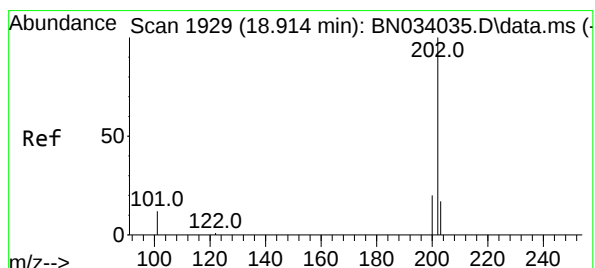
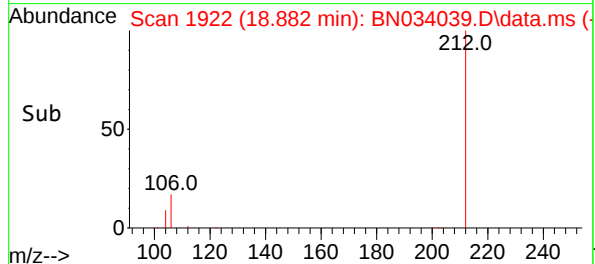
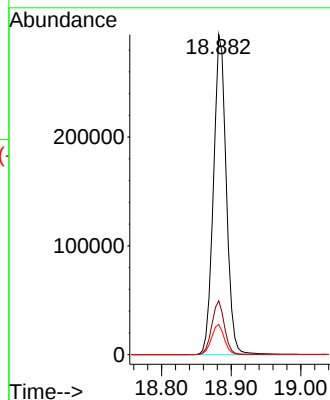
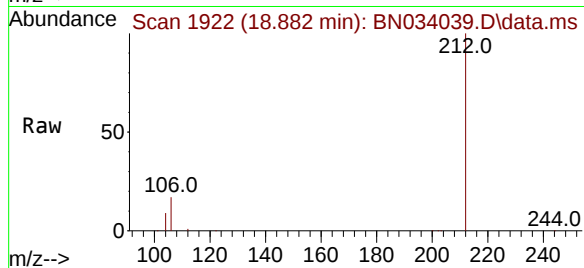
Tgt Ion:212 Resp: 376792

Ion Ratio Lower Upper

212 100

106 16.6 13.4 20.2

104 9.4 7.8 11.6



#28

Fluoranthene

Concen: 5.278 ng

RT: 18.915 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

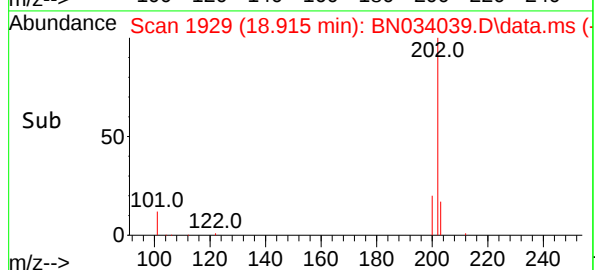
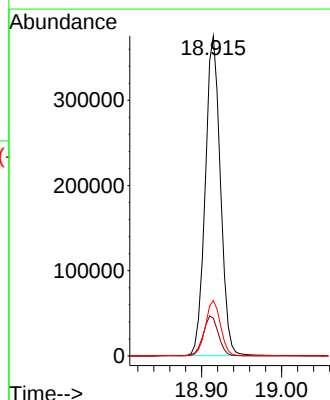
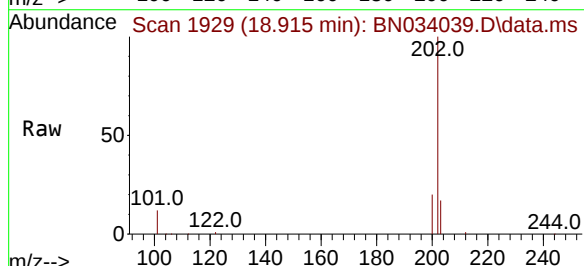
Tgt Ion:202 Resp: 493549

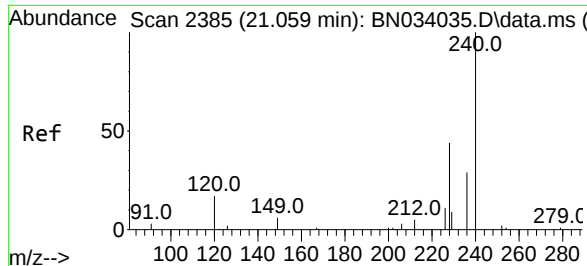
Ion Ratio Lower Upper

202 100

101 12.8 10.1 15.1

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.059 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

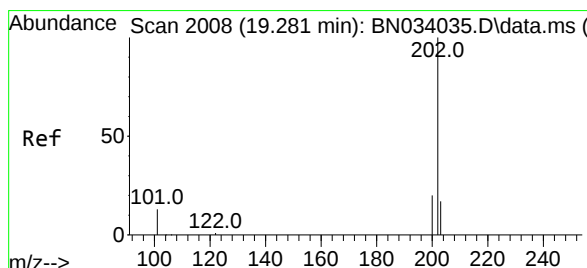
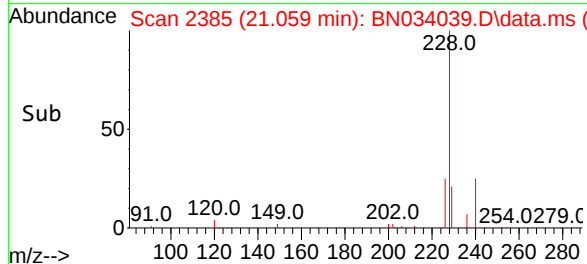
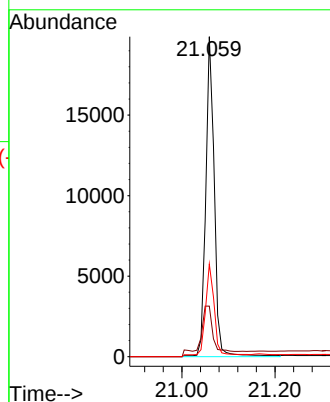
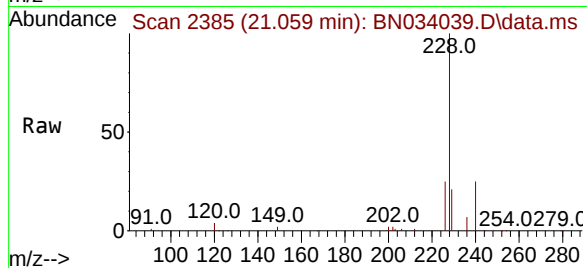
Tgt Ion:240 Resp: 24472

Ion Ratio Lower Upper

240 100

120 15.8 13.5 20.3

236 29.0 23.4 35.0



#30

Pyrene

Concen: 4.946 ng

RT: 19.282 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

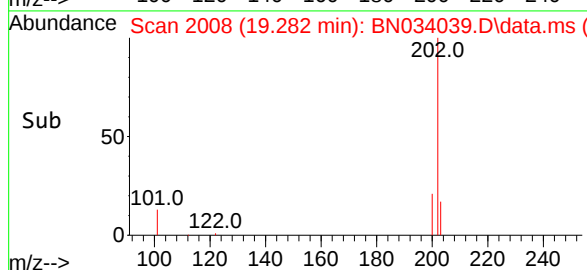
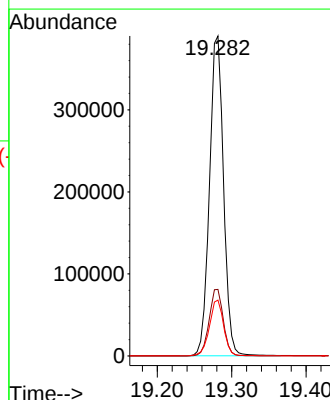
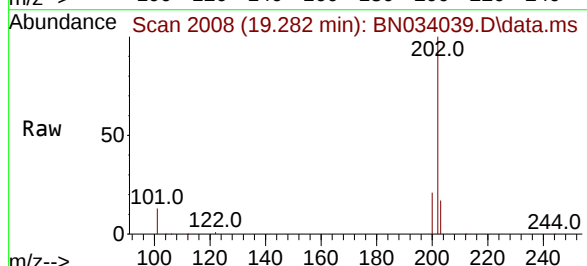
Tgt Ion:202 Resp: 510885

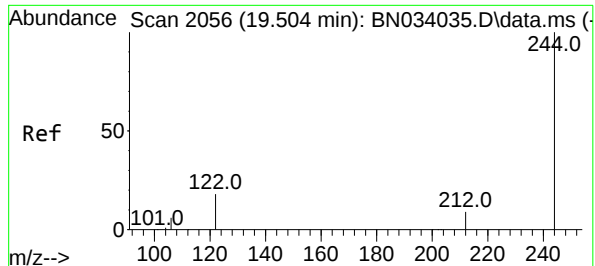
Ion Ratio Lower Upper

202 100

200 21.0 16.6 25.0

203 17.8 14.3 21.5

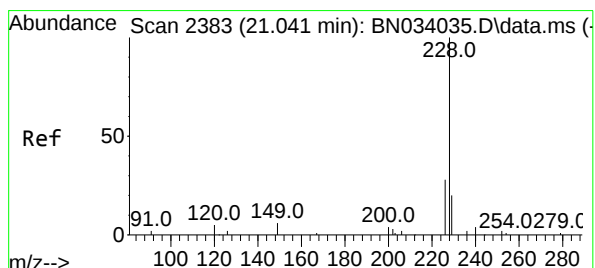
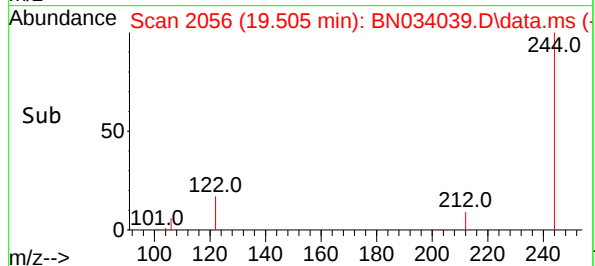
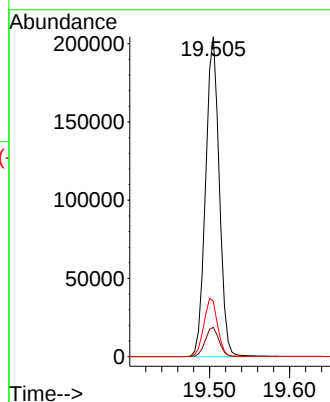
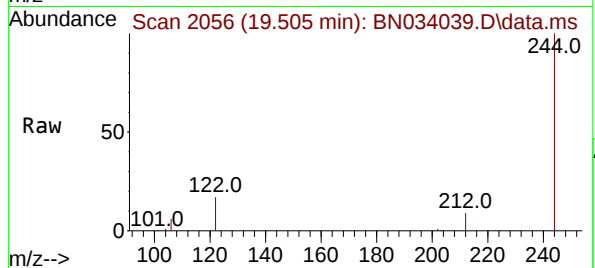




#31
Terphenyl-d14
Concen: 4.949 ng
RT: 19.505 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

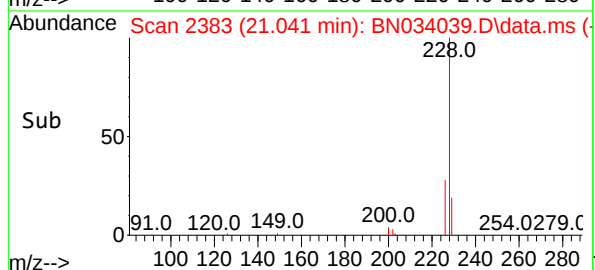
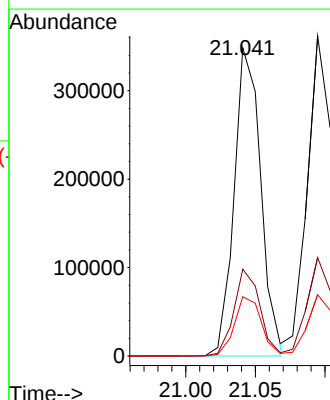
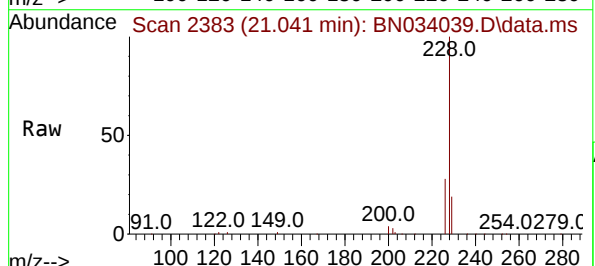
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

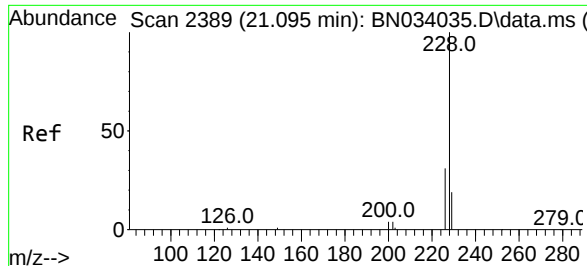
Tgt Ion:244 Resp: 241874
Ion Ratio Lower Upper
244 100
212 9.2 7.8 11.6
122 17.4 14.8 22.2



#32
Benzo(a)anthracene
Concen: 5.334 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:228 Resp: 412990
Ion Ratio Lower Upper
228 100
226 28.1 22.3 33.5
229 19.2 15.7 23.5





#33

Chrysene

Concen: 4.996 ng

RT: 21.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

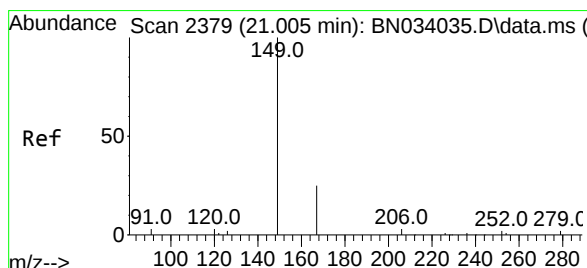
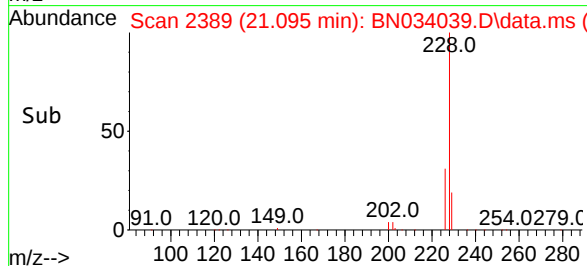
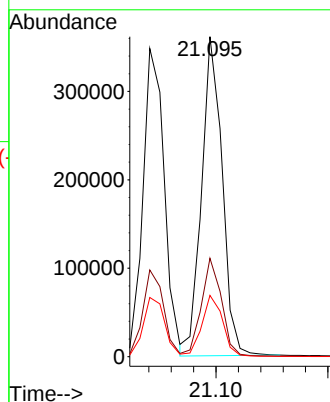
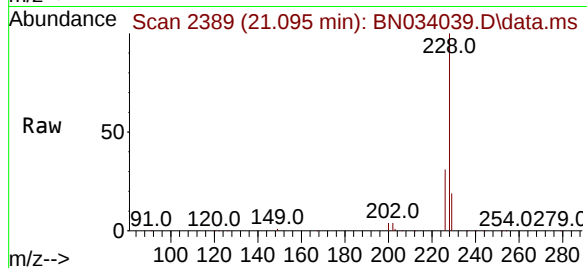
Tgt Ion:228 Resp: 461460

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.2 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.180 ng

RT: 21.005 min Scan# 2379

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

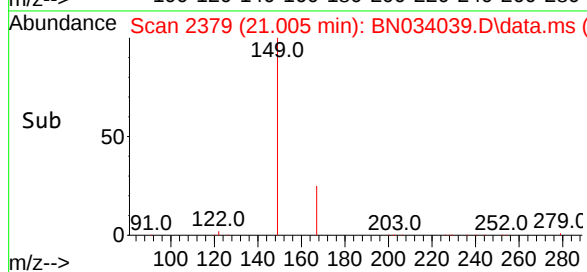
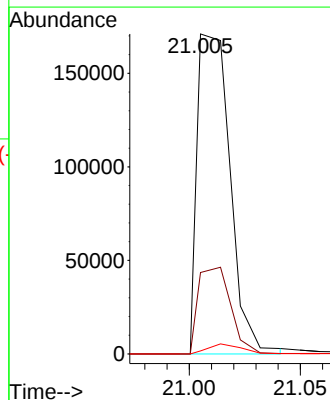
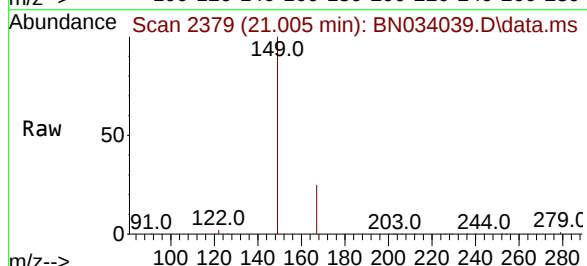
Tgt Ion:149 Resp: 167044

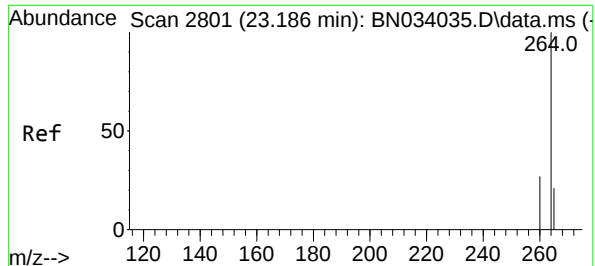
Ion Ratio Lower Upper

149 100

167 26.5 19.9 29.9

279 3.0 4.6 6.8#

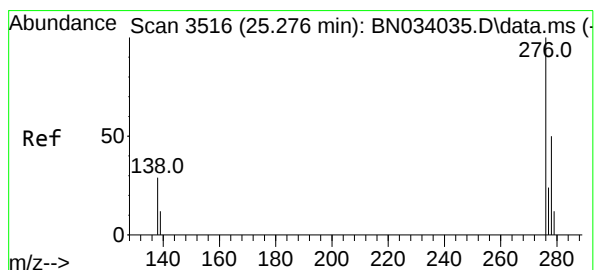
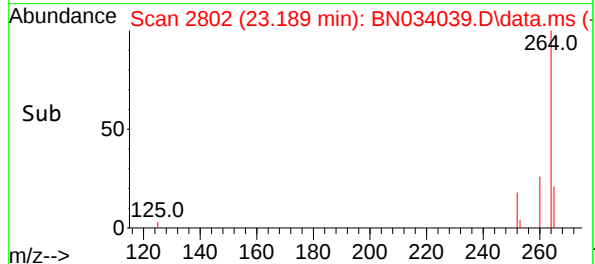
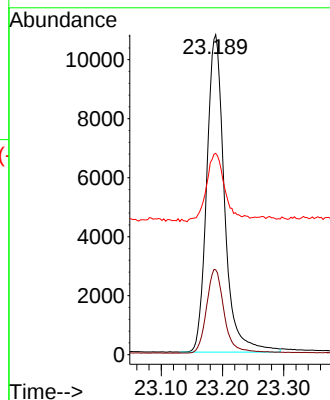
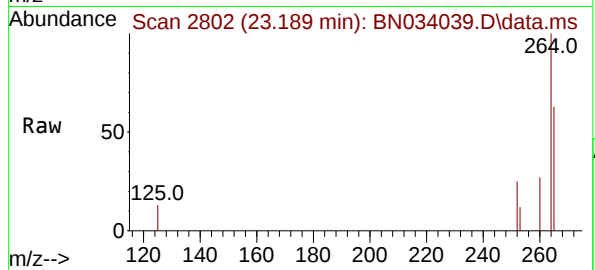




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

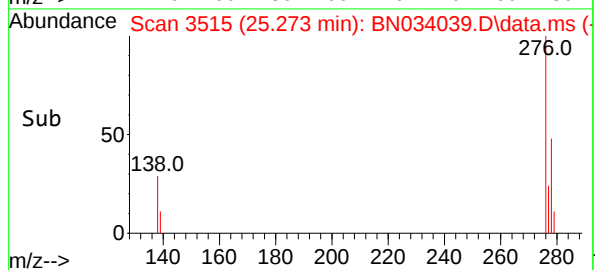
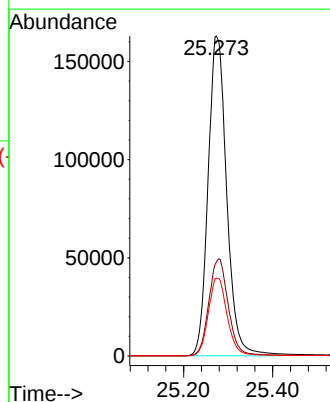
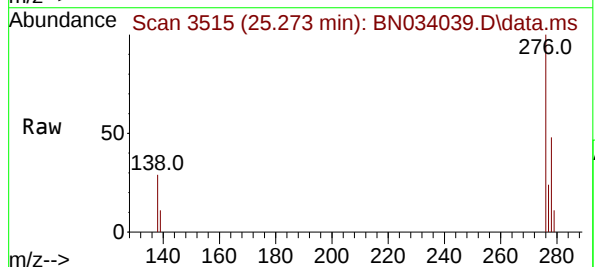
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

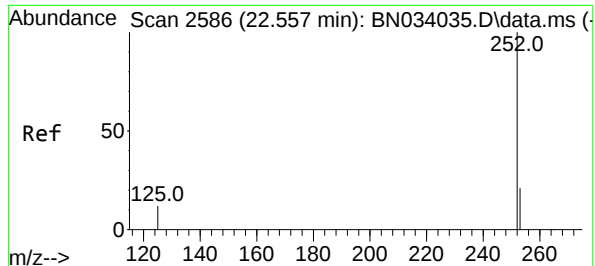
Tgt Ion:264 Resp: 21702
Ion Ratio Lower Upper
264 100
260 26.5 21.7 32.5
265 62.9 52.1 78.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.088 ng
RT: 25.273 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:276 Resp: 473110
Ion Ratio Lower Upper
276 100
138 31.6 25.9 38.9
277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 5.413 ng

RT: 22.560 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

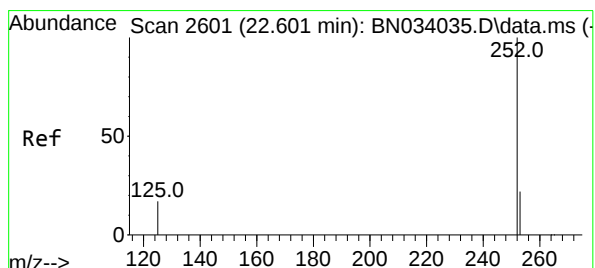
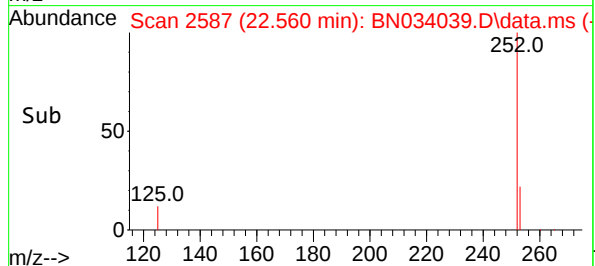
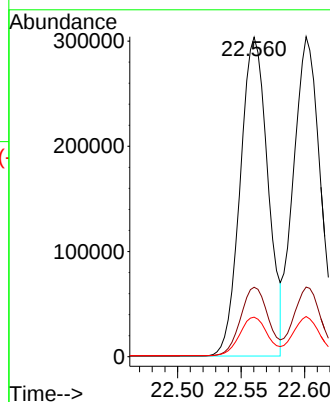
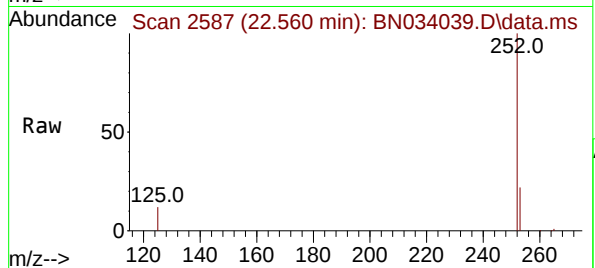
Tgt Ion:252 Resp: 460182

Ion Ratio Lower Upper

252 100

253 21.7 19.6 29.4

125 12.3 13.8 20.8#



#38

Benzo(k)fluoranthene

Concen: 5.172 ng

RT: 22.601 min Scan# 2601

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

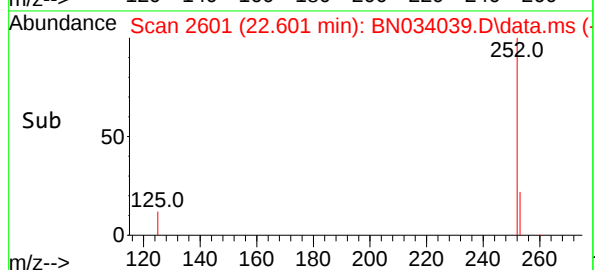
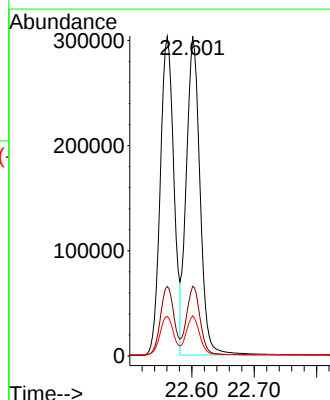
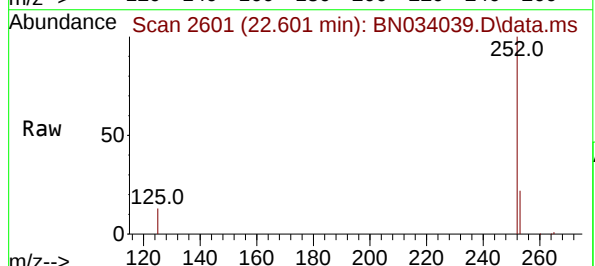
Tgt Ion:252 Resp: 461573

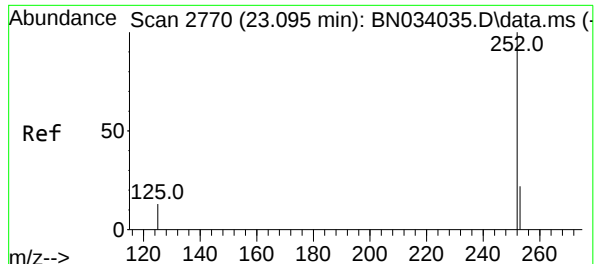
Ion Ratio Lower Upper

252 100

253 21.8 20.1 30.1

125 12.5 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 5.517 ng

RT: 23.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

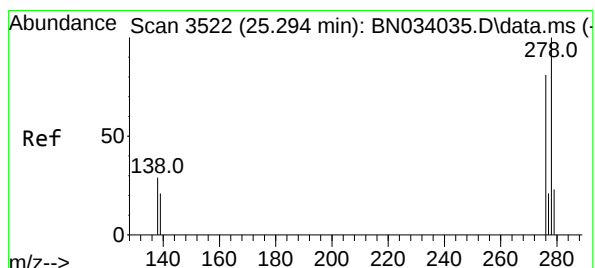
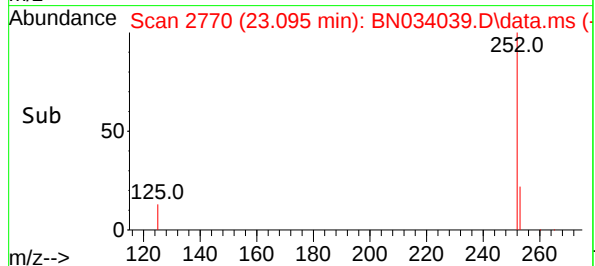
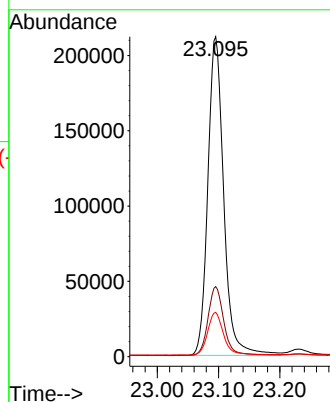
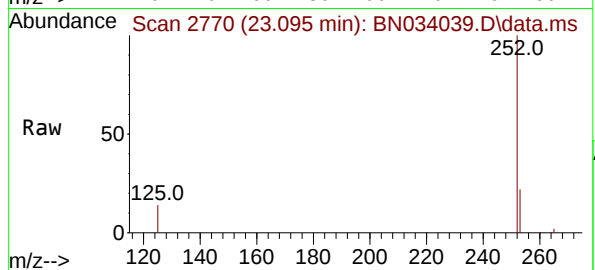
Tgt Ion:252 Resp: 382292

Ion Ratio Lower Upper

252 100

253 21.9 21.8 32.8

125 13.9 17.5 26.3#



#40

Dibenzo(a,h)anthracene

Concen: 5.139 ng

RT: 25.291 min Scan# 3521

Delta R.T. -0.003 min

Lab File: BN034039.D

Acq: 18 Sep 2024 15:30

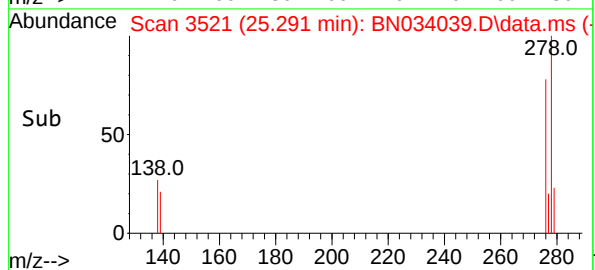
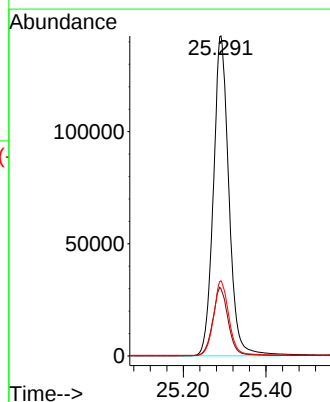
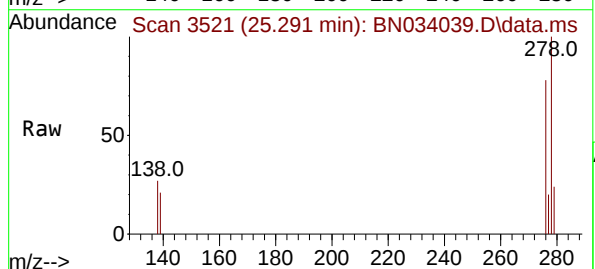
Tgt Ion:278 Resp: 371244

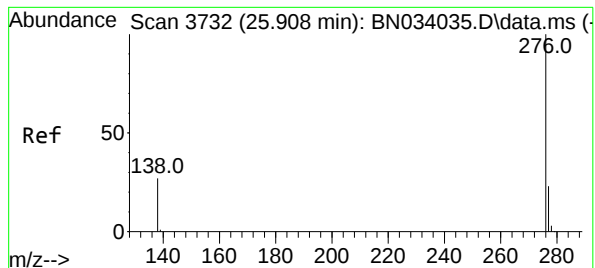
Ion Ratio Lower Upper

278 100

139 21.0 17.8 26.8

279 23.5 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 4.985 ng

RT: 25.908 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN034039.D

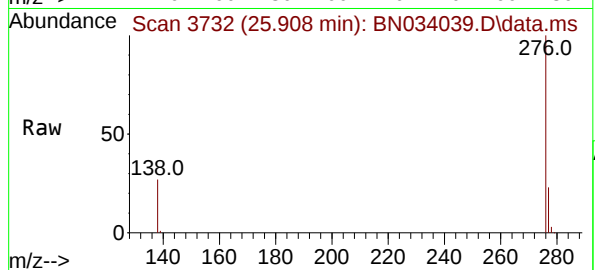
Acq: 18 Sep 2024 15:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



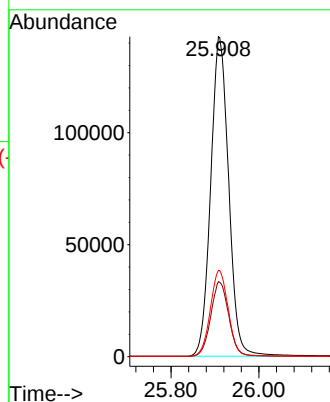
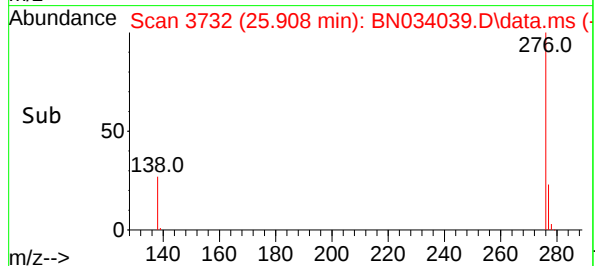
Tgt Ion:276 Resp: 404439

Ion Ratio Lower Upper

276 100

277 23.5 19.3 28.9

138 27.0 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034040.D
 Acq On : 18 Sep 2024 18:01
 Operator : JU/RC
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN091924

Quant Time: Sep 18 18:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

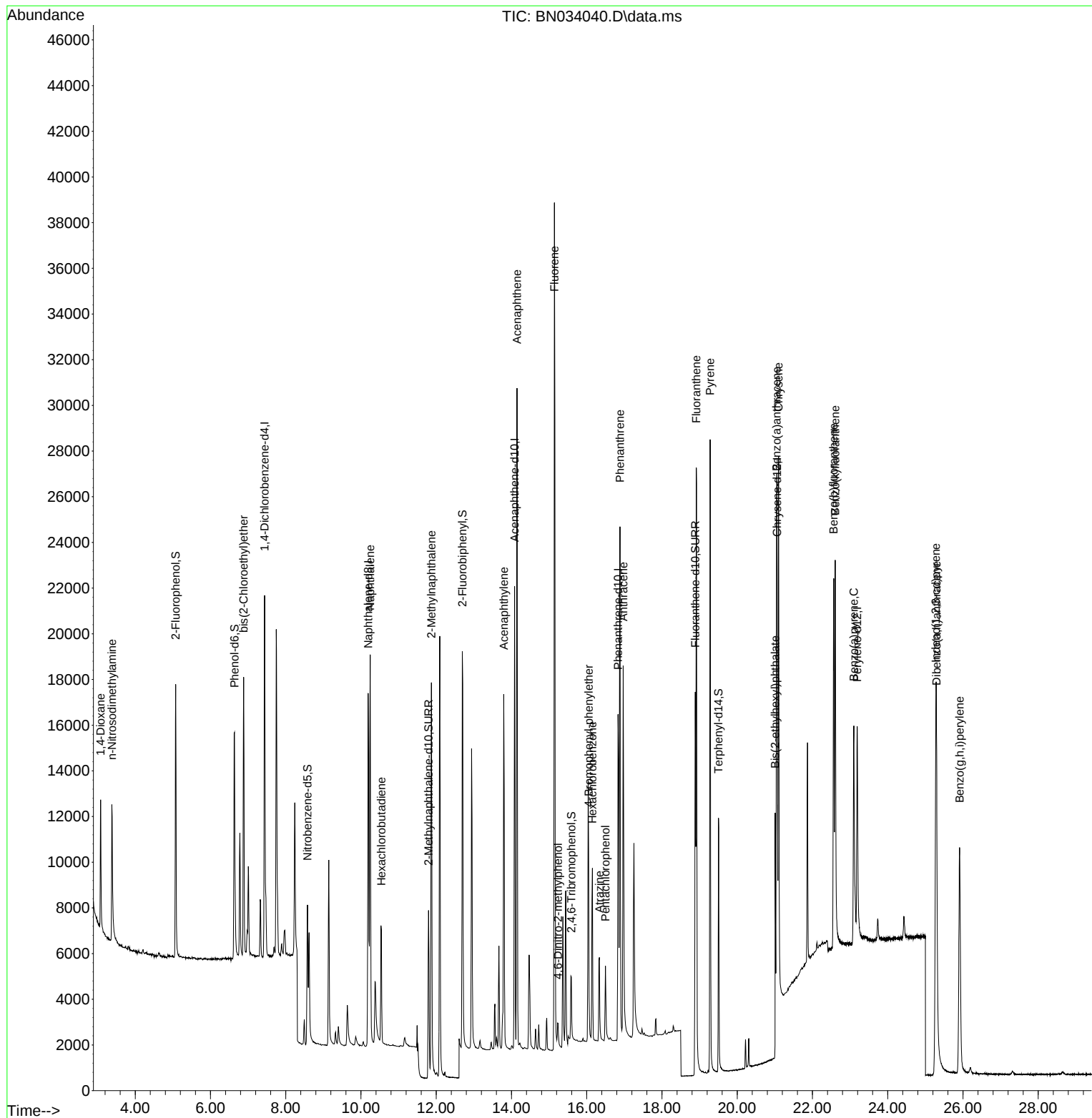
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7441	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	20648	0.400	ng	# 0.00
13) Acenaphthene-d10	14.083	164	10842	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	21730	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	13486	0.400	ng	0.00
35) Perylene-d12	23.189	264	12946	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	9341	0.442	ng	0.00
5) Phenol-d6	6.636	99	9977	0.406	ng	0.00
8) Nitrobenzene-d5	8.578	82	5636	0.357	ng	0.00
11) 2-Methylnaphthalene-d10	11.795	152	11291	0.370	ng	0.00
14) 2,4,6-Tribromophenol	15.592	330	1851	0.377	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	17844	0.405	ng	0.00
27) Fluoranthene-d10	18.885	212	19215	0.350	ng	0.00
31) Terphenyl-d14	19.503	244	11191	0.415	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.083	88	3911	0.420	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.379	42	4225	0.399	ng	# 95
6) bis(2-Chloroethyl)ether	6.881	93	8259	0.380	ng	100
9) Naphthalene	10.244	128	22158	0.391	ng	100
10) Hexachlorobutadiene	10.543	225	4339	0.406	ng	# 99
12) 2-Methylnaphthalene	11.871	142	13664	0.371	ng	98
16) Acenaphthylene	13.794	152	17256	0.372	ng	99
17) Acenaphthene	14.147	154	13226	0.397	ng	100
18) Fluorene	15.141	166	16560	0.379	ng	100
20) 4,6-Dinitro-2-methylph...	15.238	198	936	0.370	ng	85
21) 4-Bromophenyl-phenylether	16.051	248	4712	0.386	ng	94
22) Hexachlorobenzene	16.150	284	5733	0.419	ng	100
23) Atrazine	16.337	200	3719	0.367	ng	97
24) Pentachlorophenol	16.498	266	1746	0.386	ng	99
25) Phenanthrene	16.883	178	24279	0.389	ng	100
26) Anthracene	16.970	178	18267	0.359	ng	100
28) Fluoranthene	18.913	202	25109	0.347	ng	100
30) Pyrene	19.280	202	25618	0.450	ng	100
32) Benzo(a)anthracene	21.044	228	15786	0.370	ng	100
33) Chrysene	21.098	228	20535	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	6532	0.368	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.279	276	22278	0.402	ng	99
37) Benzo(b)fluoranthene	22.563	252	19554	0.386	ng	95
38) Benzo(k)fluoranthene	22.604	252	21903	0.411	ng	97
39) Benzo(a)pyrene	23.098	252	15991	0.387	ng	94
40) Dibenzo(a,h)anthracene	25.297	278	17016	0.395	ng	97
41) Benzo(g,h,i)perylene	25.911	276	19666	0.406	ng	100

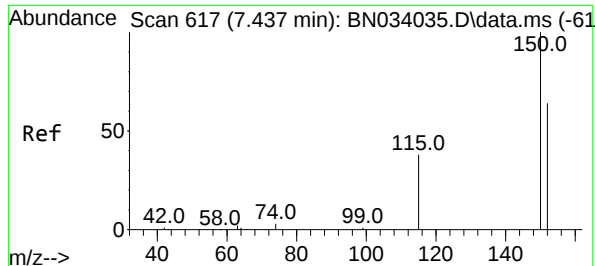
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

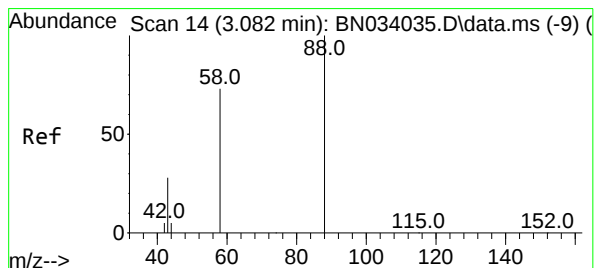
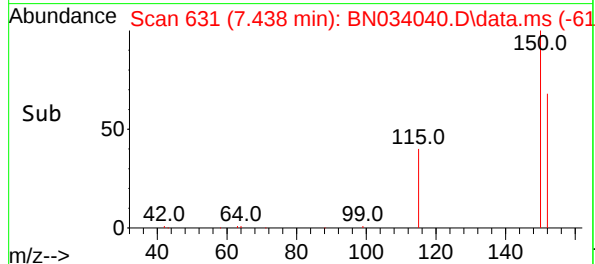
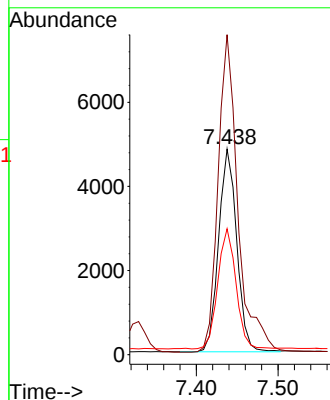
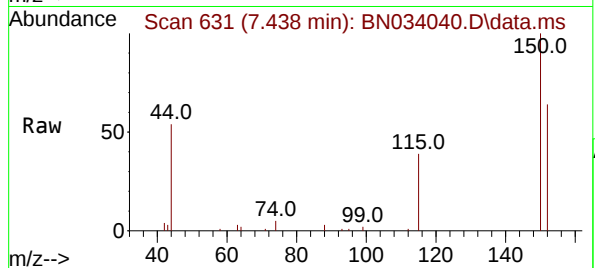




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

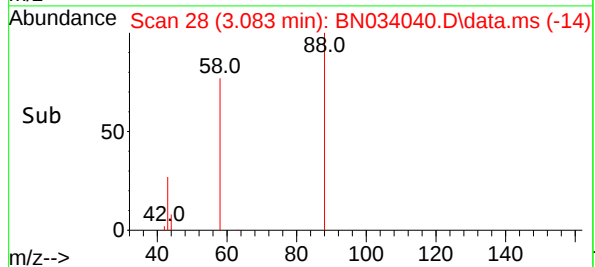
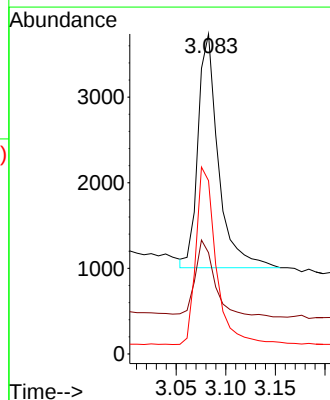
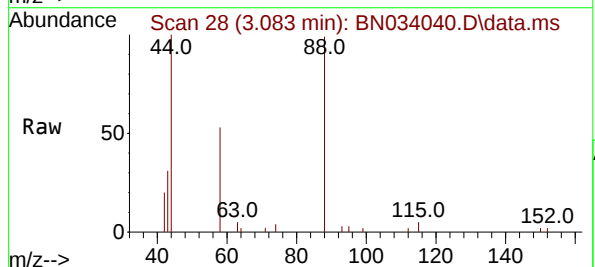
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

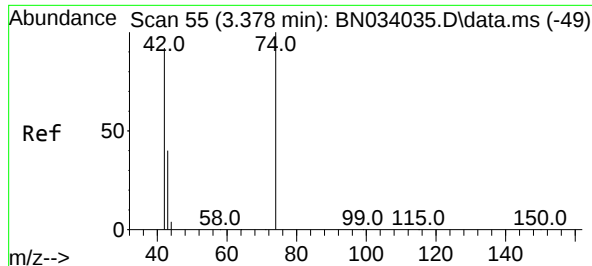
Tgt Ion:152 Resp: 7441
Ion Ratio Lower Upper
152 100
150 155.6 124.6 187.0
115 61.2 50.0 75.0



#2
1,4-Dioxane
Concen: 0.420 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 88 Resp: 3911
Ion Ratio Lower Upper
88 100
43 32.2 25.8 38.8
58 75.5 58.8 88.2

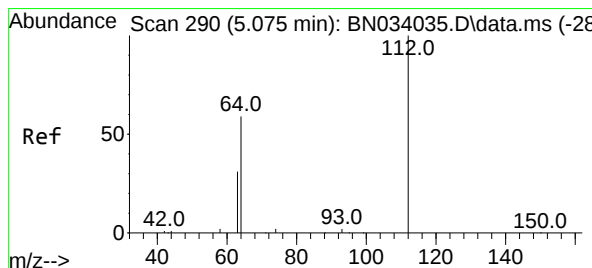
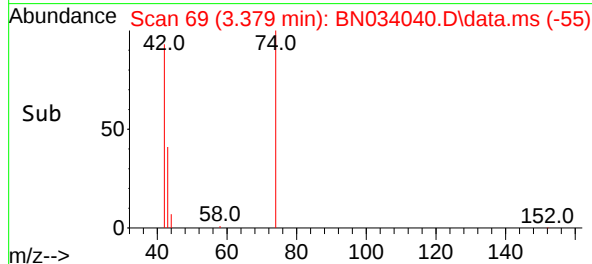
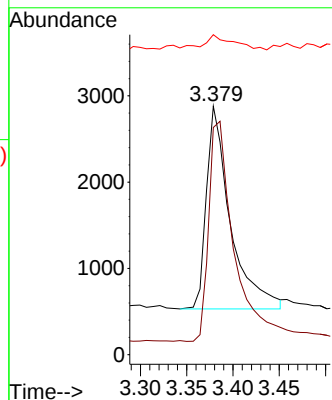
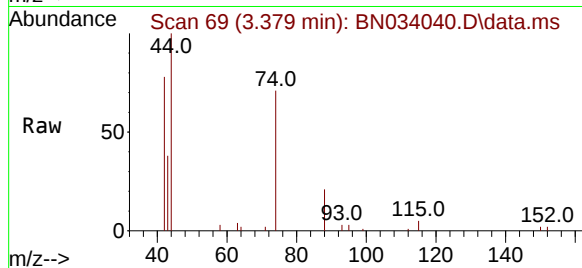




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.379 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

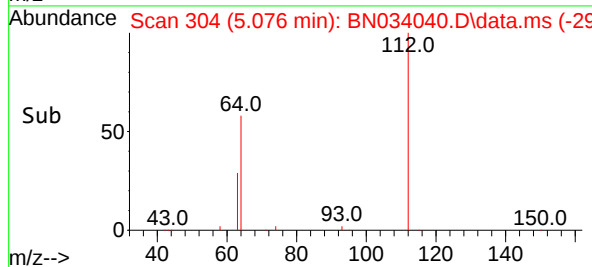
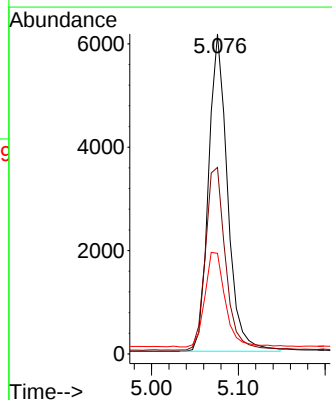
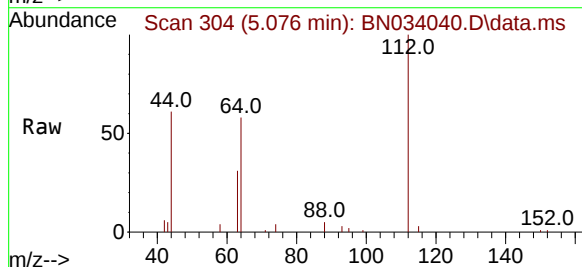
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

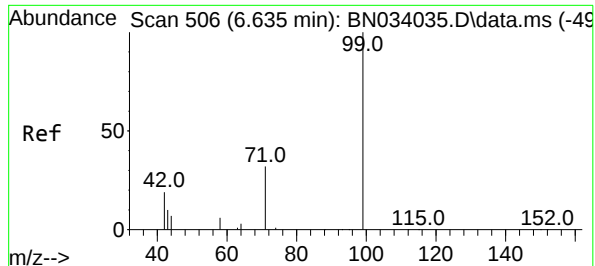
Tgt Ion: 42 Resp: 4225
Ion Ratio Lower Upper
42 100
74 115.0 94.6 142.0
44 8.1 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.442 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 112 Resp: 9341
Ion Ratio Lower Upper
112 100
64 60.9 48.6 72.8
63 31.8 25.6 38.4

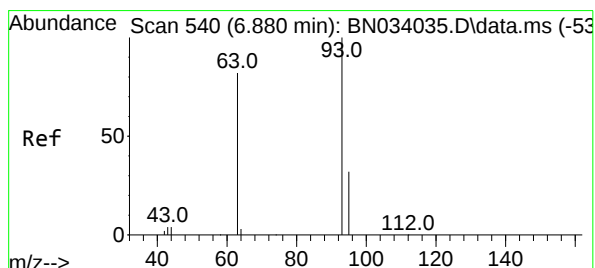
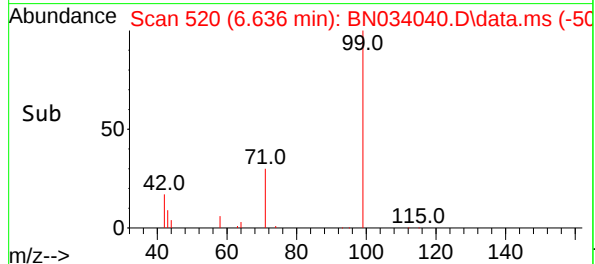
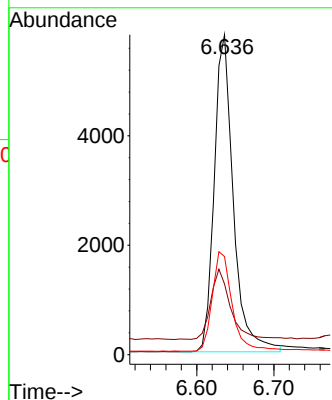
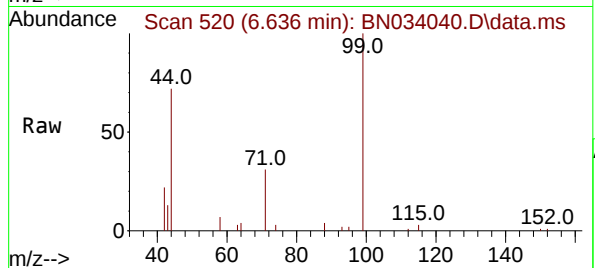




#5
Phenol-d6
Concen: 0.406 ng
RT: 6.636 min Scan# 51
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

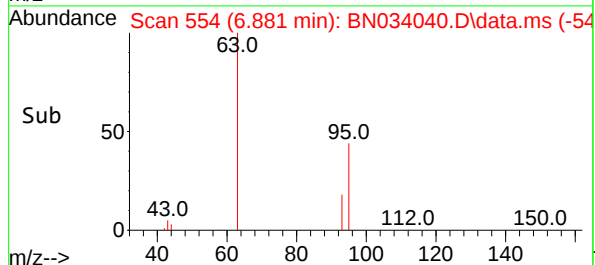
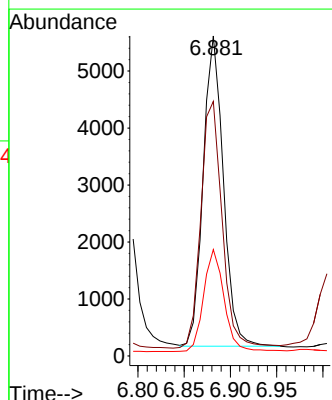
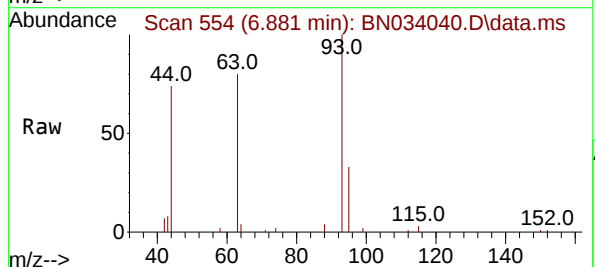
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

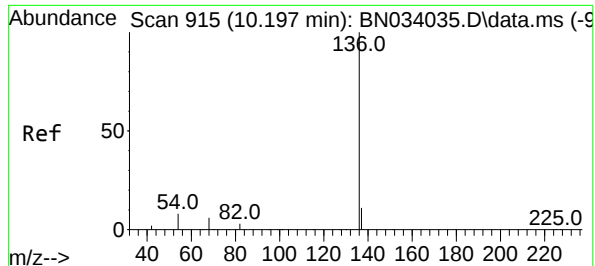
Tgt Ion: 99 Resp: 9977
Ion Ratio Lower Upper
99 100
42 22.8 17.8 26.8
71 32.8 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 6.881 min Scan# 554
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 93 Resp: 8259
Ion Ratio Lower Upper
93 100
63 84.3 67.3 100.9
95 33.4 26.8 40.2

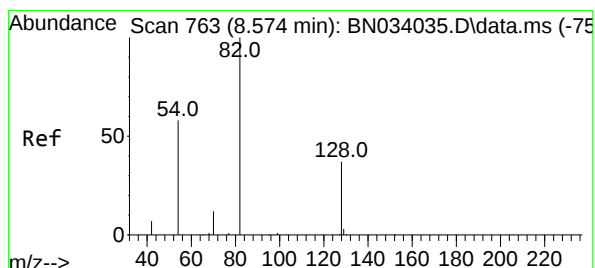
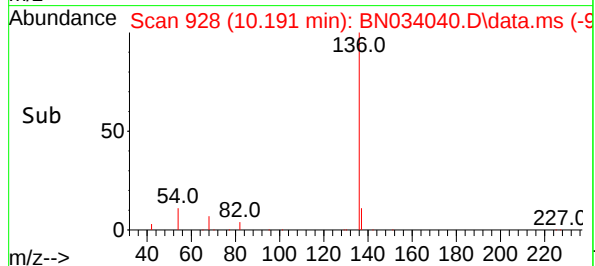
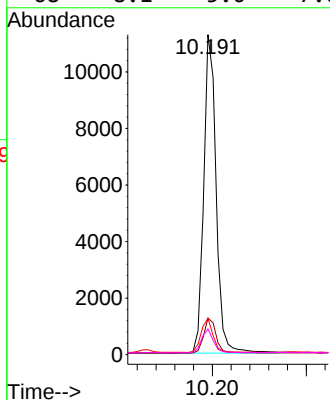
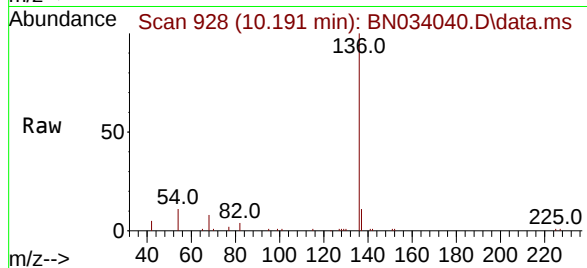




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 915
Delta R.T. -0.006 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

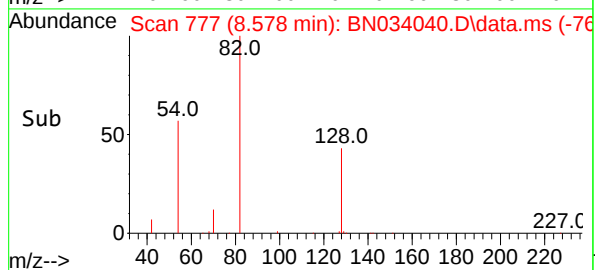
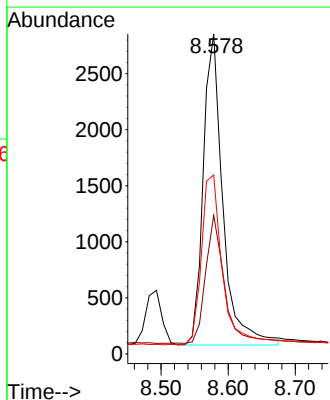
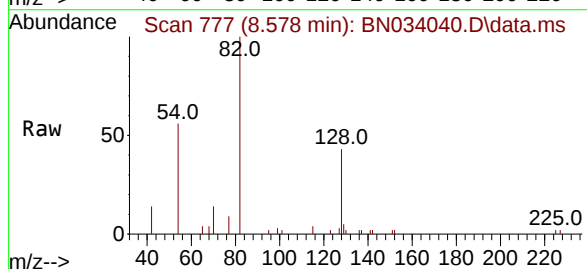
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

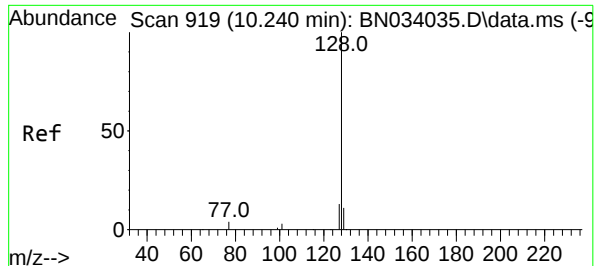
Tgt Ion:	136	Resp:	20648
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.0	13.6
54	11.4	6.8	10.2#
68	8.1	5.0	7.6#



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.578 min Scan# 777
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:	82	Resp:	5636
Ion Ratio	Lower	Upper	
82	100		
128	43.3	31.4	47.2
54	55.9	47.4	71.0

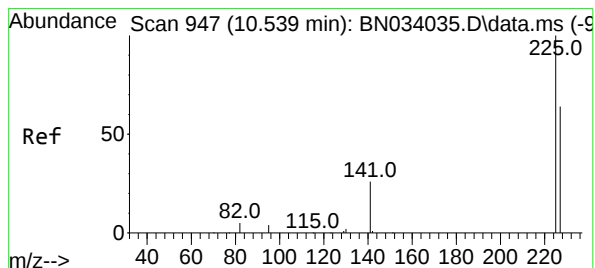
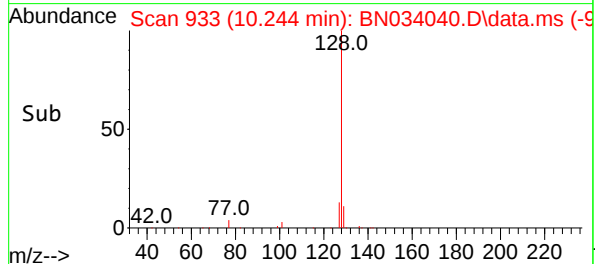
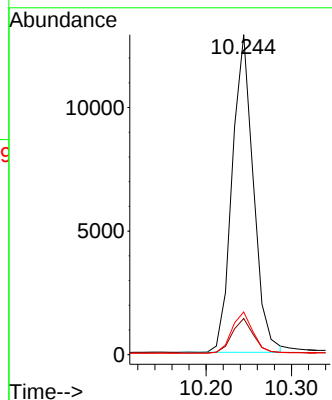
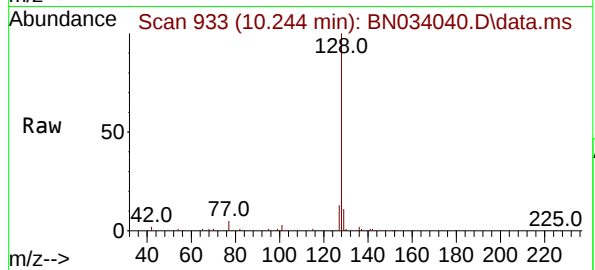




#9
Naphthalene
Concen: 0.391 ng
RT: 10.244 min Scan# 919
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

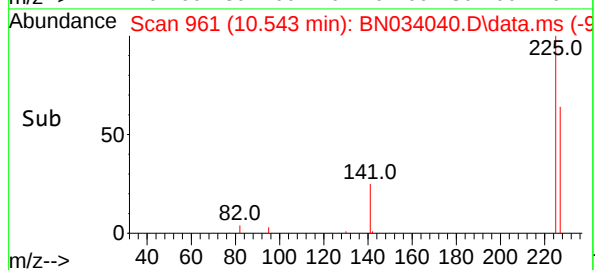
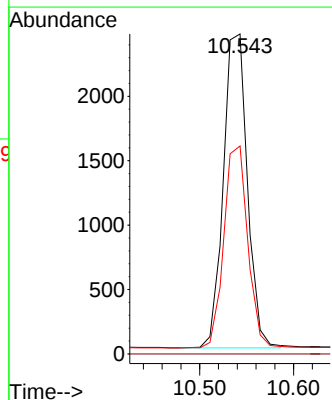
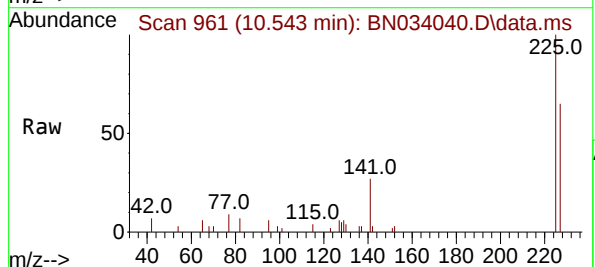
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

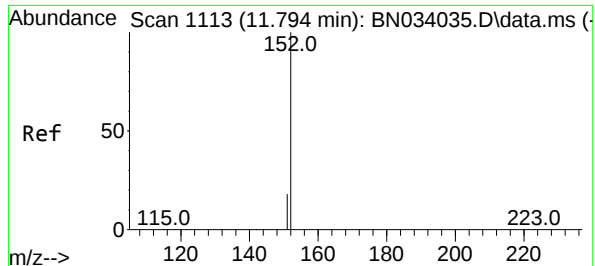
Tgt Ion:128 Resp: 22158
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.3 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.543 min Scan# 961
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:225 Resp: 4339
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.5 75.7

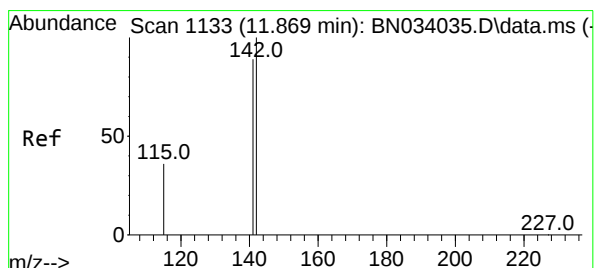
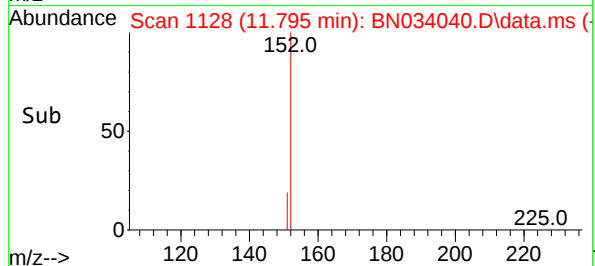
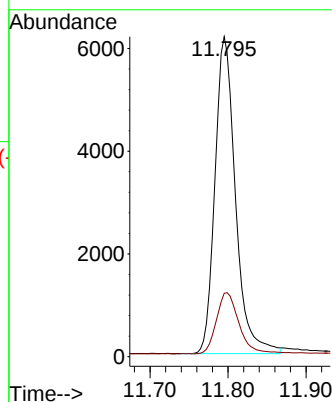
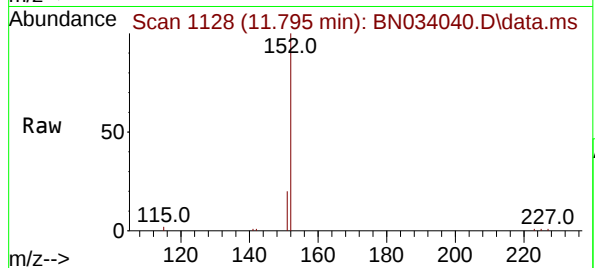




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.795 min Scan# 1113
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

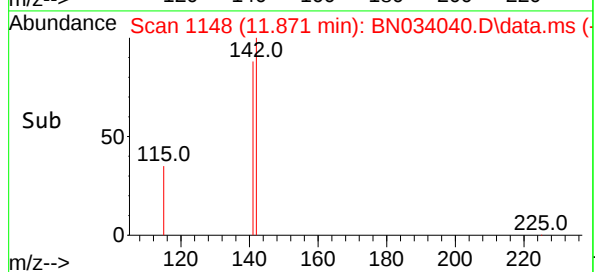
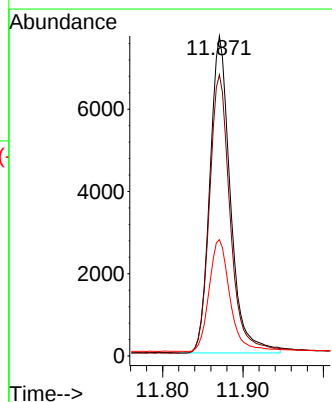
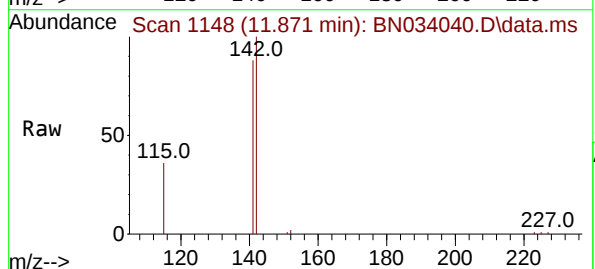
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

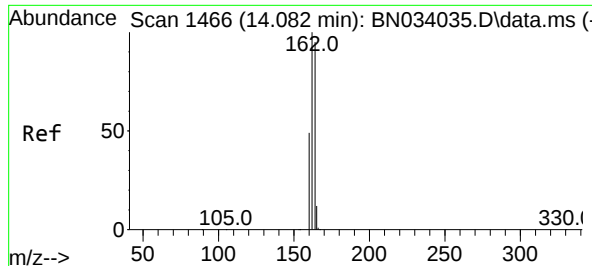
Tgt Ion:152 Resp: 11291
Ion Ratio Lower Upper
152 100
151 21.3 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.871 min Scan# 1148
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:142 Resp: 13664
Ion Ratio Lower Upper
142 100
141 87.9 71.6 107.4
115 36.4 30.0 45.0

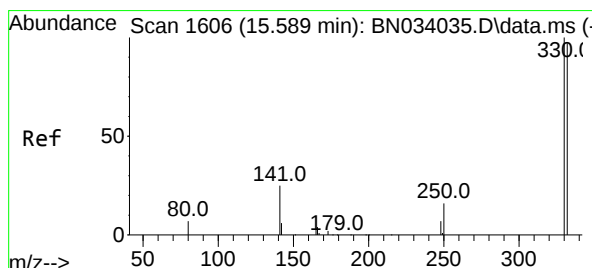
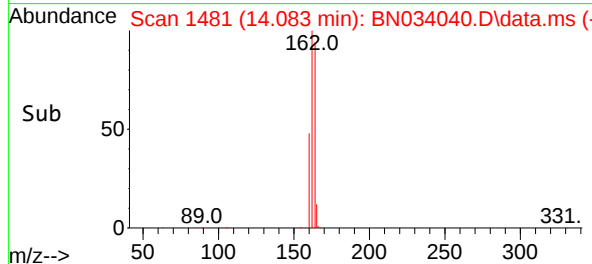
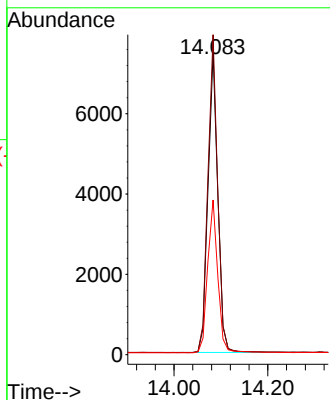
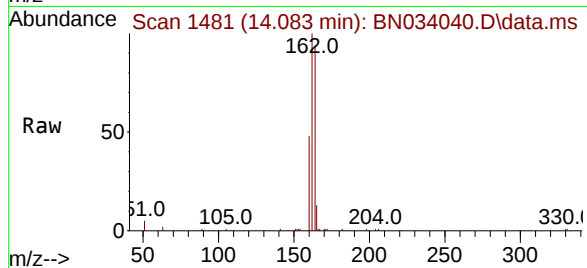




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 1466
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

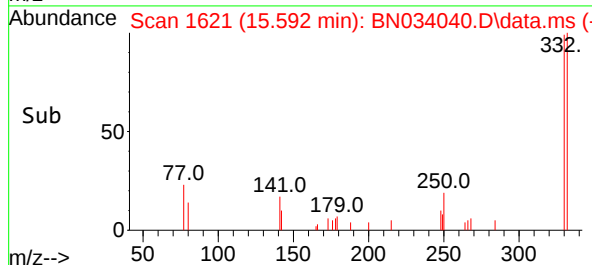
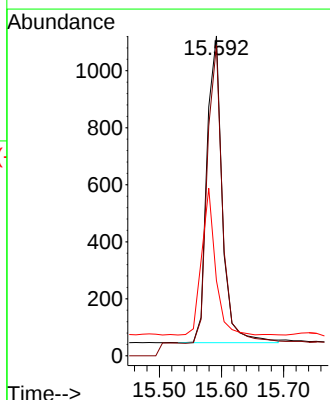
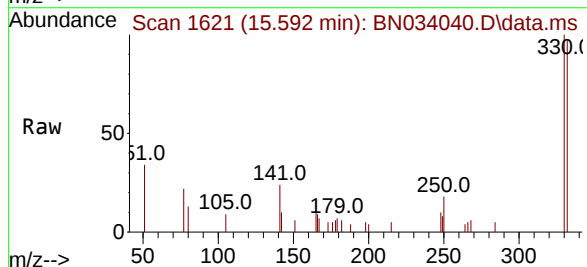
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

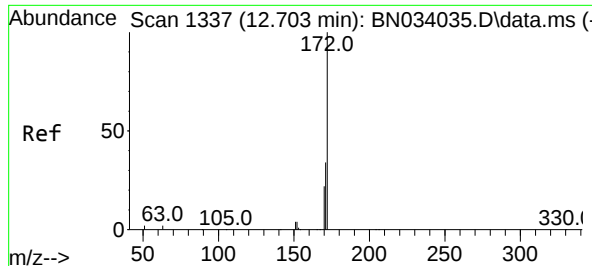
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.2
160	51.2	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.592 min Scan# 1621
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.4	116.0
141	43.4	35.9	53.9





#15

2-Fluorobiphenyl

Concen: 0.405 ng

RT: 12.693 min Scan# 1

Delta R.T. -0.009 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

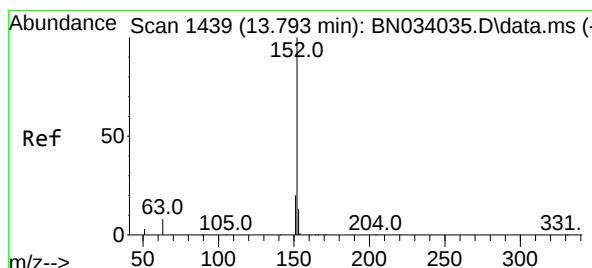
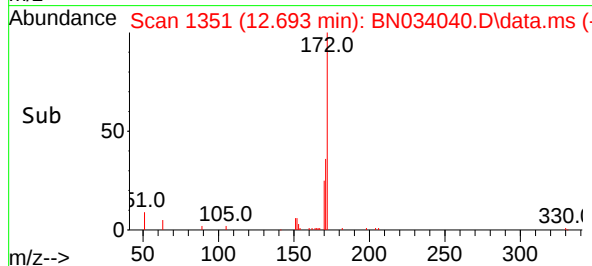
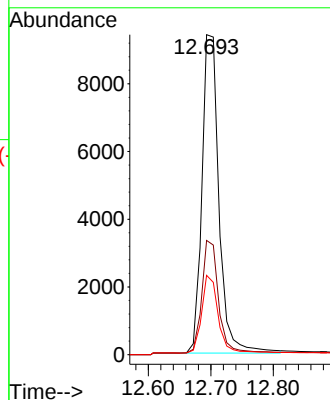
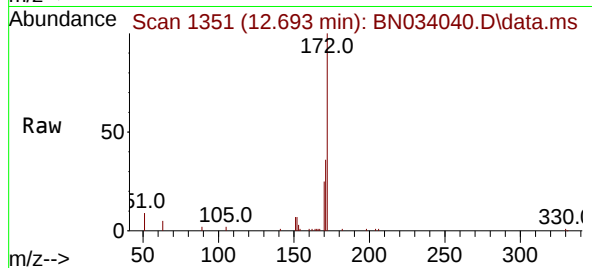
Tgt Ion:172 Resp: 17844

Ion Ratio Lower Upper

172 100

171 35.7 27.3 40.9

170 24.8 18.1 27.1



#16

Acenaphthylene

Concen: 0.372 ng

RT: 13.794 min Scan# 1454

Delta R.T. 0.001 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

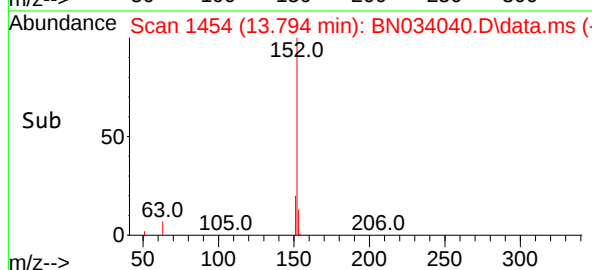
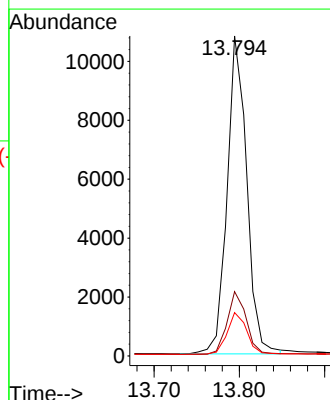
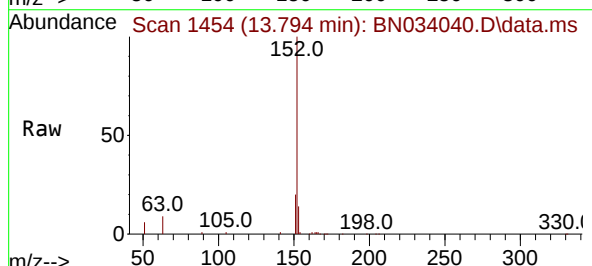
Tgt Ion:152 Resp: 17256

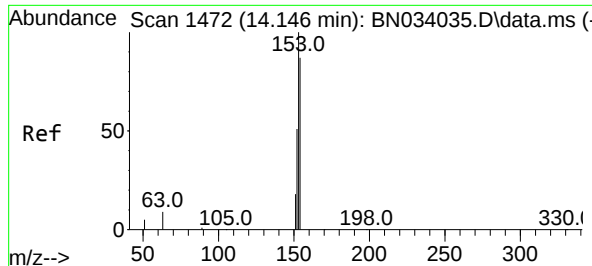
Ion Ratio Lower Upper

152 100

151 19.2 15.6 23.4

153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 0.397 ng

RT: 14.147 min Scan# 14

Delta R.T. 0.001 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

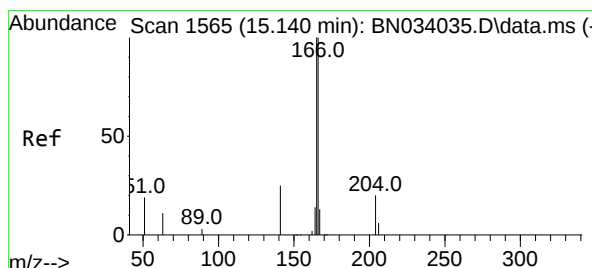
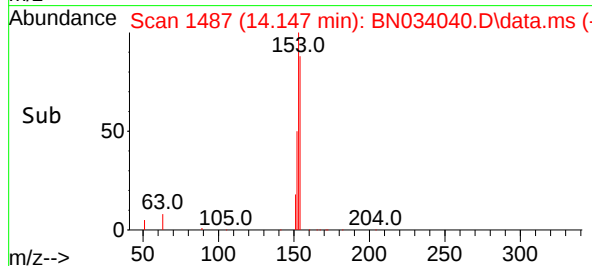
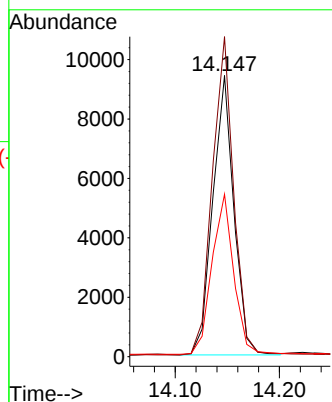
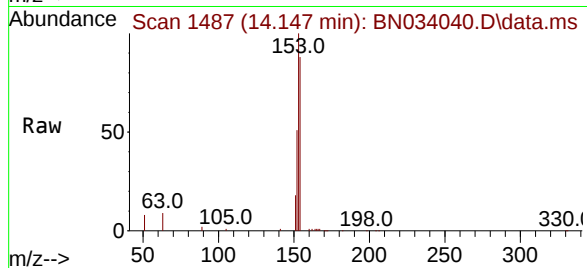
Tgt Ion:154 Resp: 13226

Ion Ratio Lower Upper

154 100

153 114.7 91.6 137.4

152 59.0 47.4 71.2



#18

Fluorene

Concen: 0.379 ng

RT: 15.141 min Scan# 1580

Delta R.T. 0.001 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

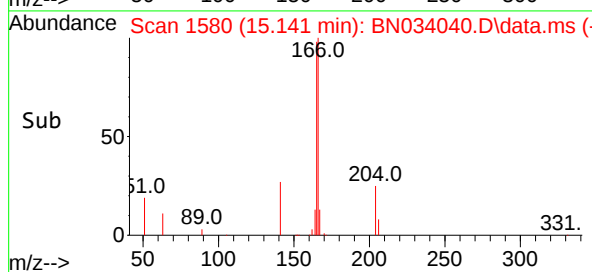
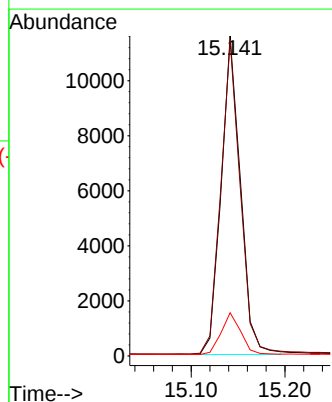
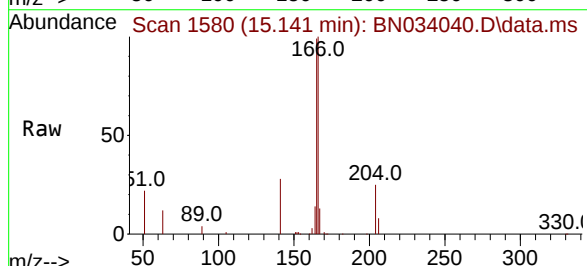
Tgt Ion:166 Resp: 16560

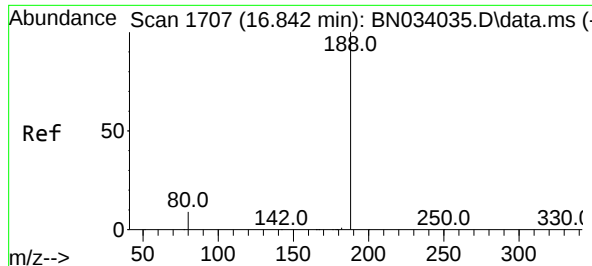
Ion Ratio Lower Upper

166 100

165 98.6 79.1 118.7

167 13.3 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.833 min Scan# 11

Delta R.T. -0.009 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

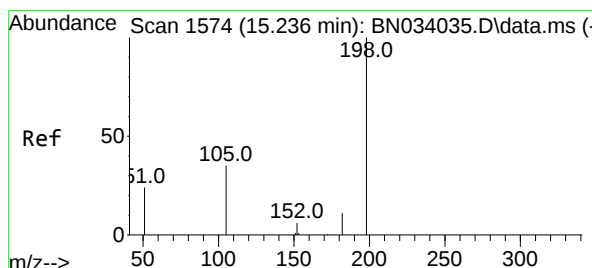
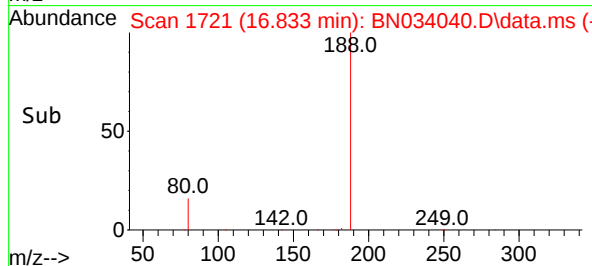
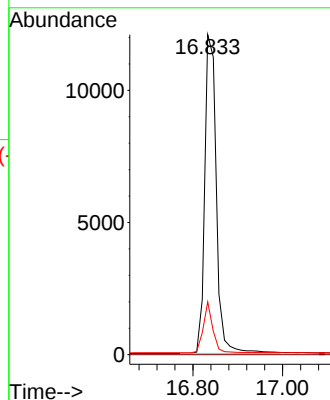
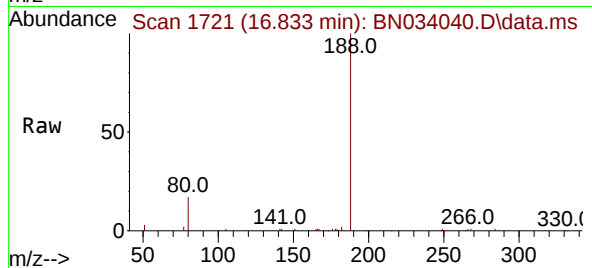
Tgt Ion:188 Resp: 21730

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.5 7.4 11.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.370 ng

RT: 15.238 min Scan# 1589

Delta R.T. 0.002 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

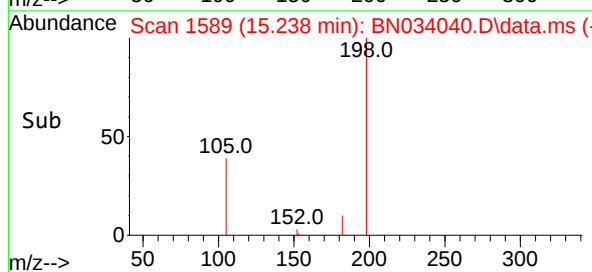
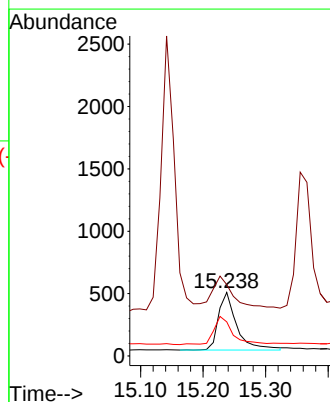
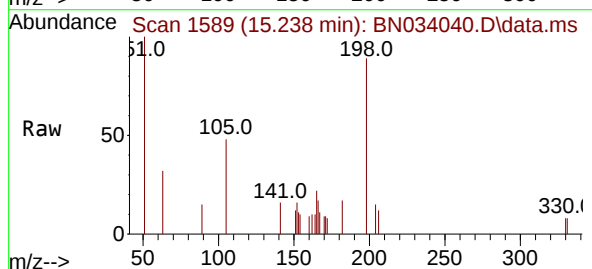
Tgt Ion:198 Resp: 936

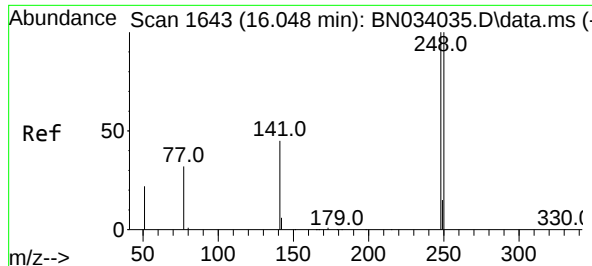
Ion Ratio Lower Upper

198 100

51 112.4 106.4 159.6

105 53.6 38.5 57.7

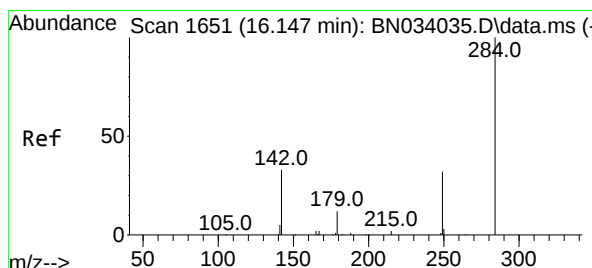
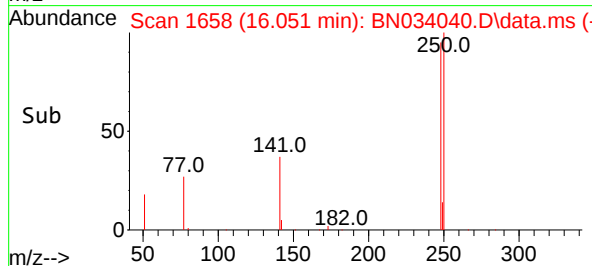
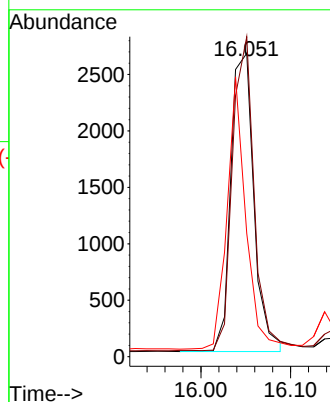
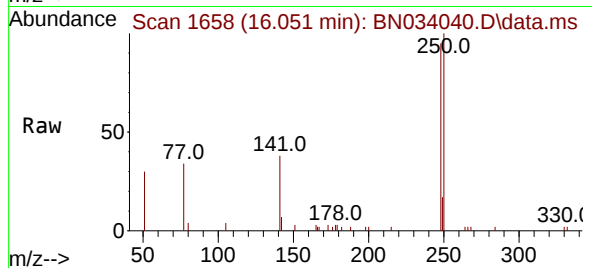




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.051 min Scan# 1665
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

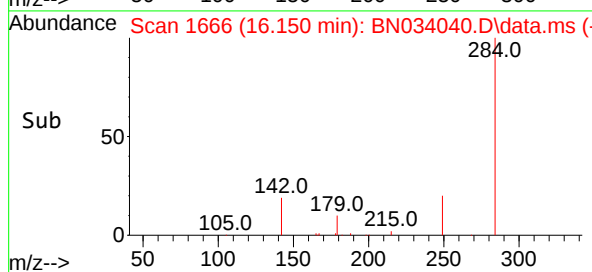
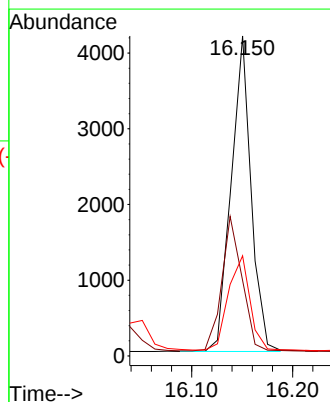
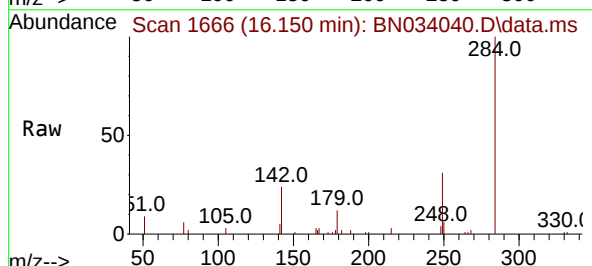
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

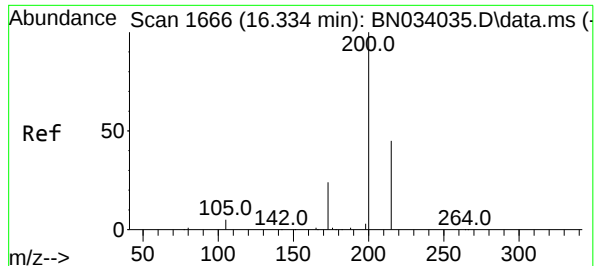
Tgt Ion:248 Resp: 4712
Ion Ratio Lower Upper
248 100
250 105.5 80.5 120.7
141 40.6 37.1 55.7



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.150 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:284 Resp: 5733
Ion Ratio Lower Upper
284 100
142 43.0 34.5 51.7
249 32.2 25.8 38.6

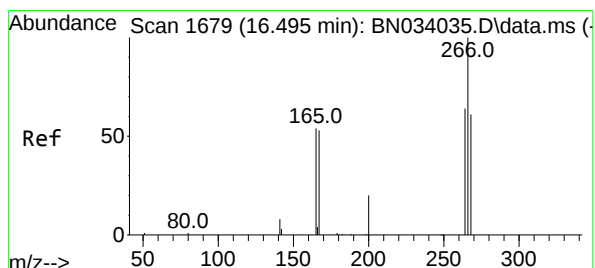
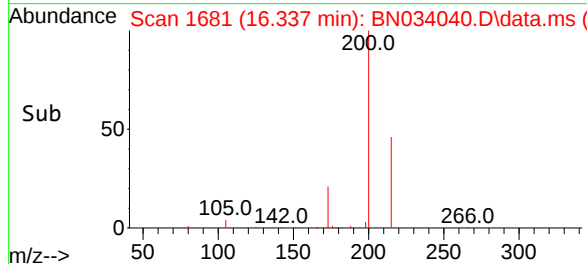
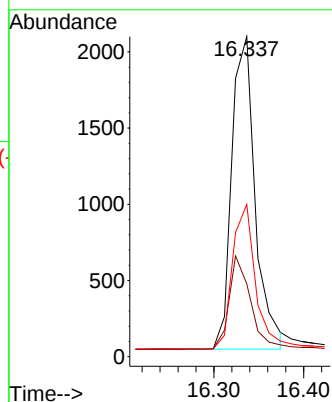
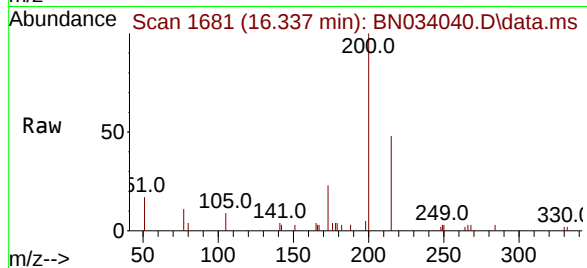




#23
Atrazine
Concen: 0.367 ng
RT: 16.337 min Scan# 1681
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

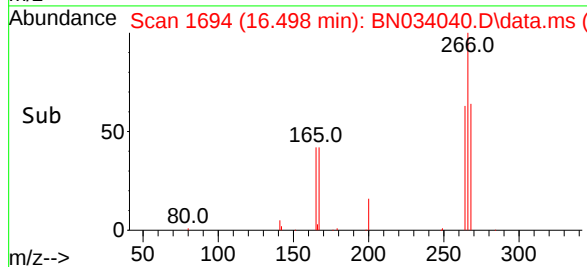
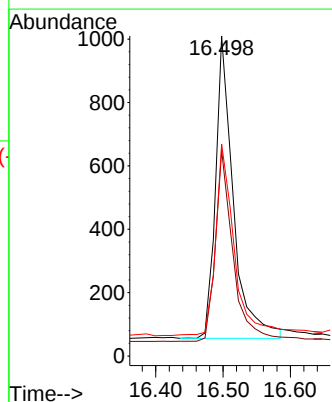
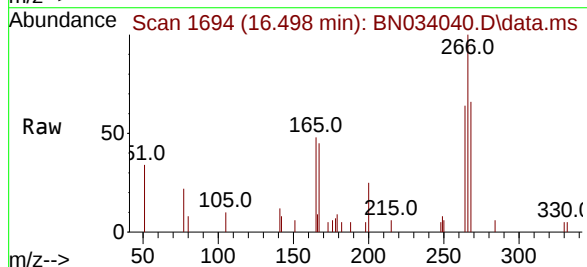
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

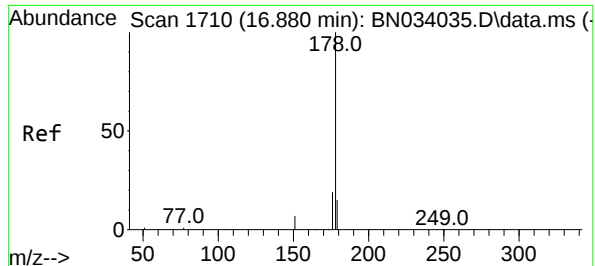
Tgt Ion: 200 Resp: 3719
Ion Ratio Lower Upper
200 100
173 22.8 20.1 30.1
215 47.6 37.0 55.6



#24
Pentachlorophenol
Concen: 0.386 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 266 Resp: 1746
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 65.8 51.0 76.4

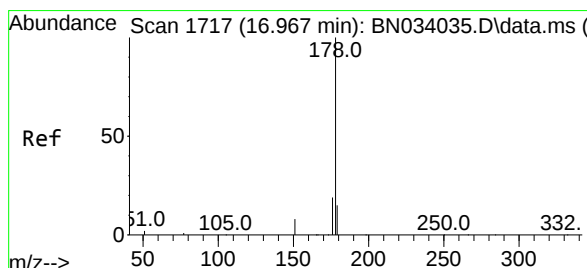
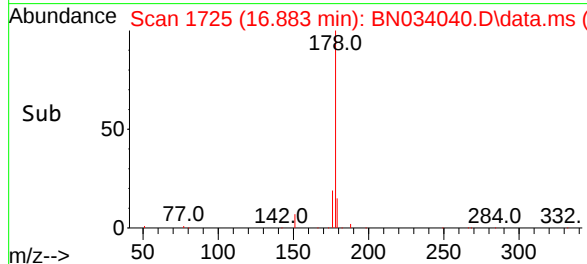
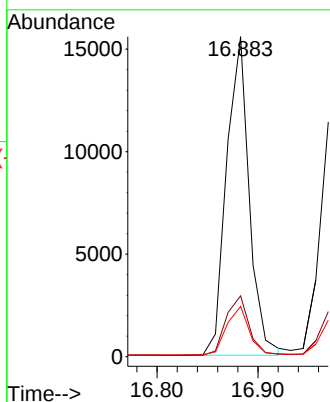
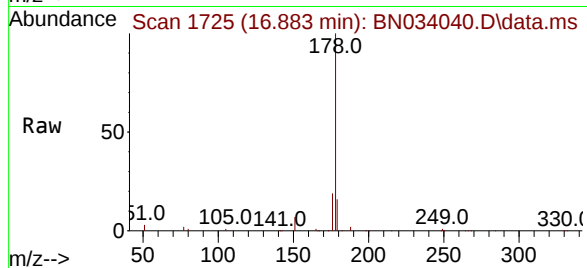




#25
Phenanthrene
Concen: 0.389 ng
RT: 16.883 min Scan# 1710
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

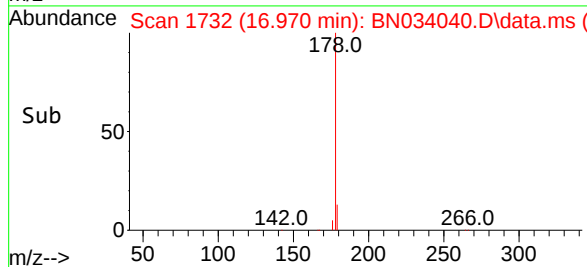
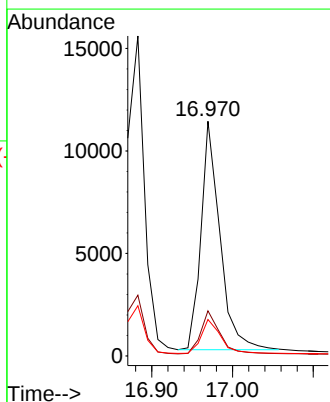
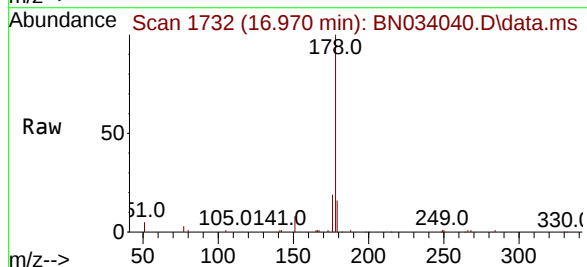
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

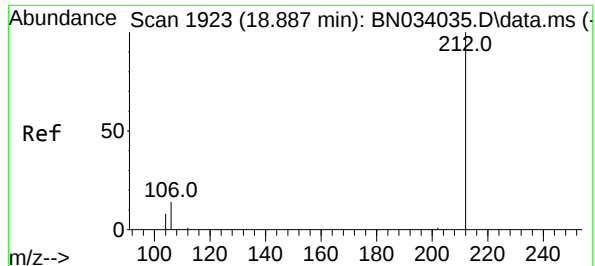
Tgt Ion:178 Resp: 24279
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.3 12.1 18.1



#26
Anthracene
Concen: 0.359 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:178 Resp: 18267
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.4





#27

Fluoranthene-d10

Concen: 0.350 ng

RT: 18.885 min Scan# 1923

Delta R.T. -0.002 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

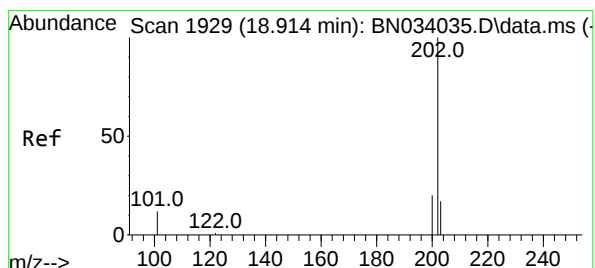
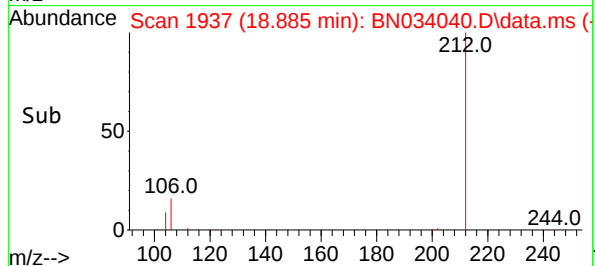
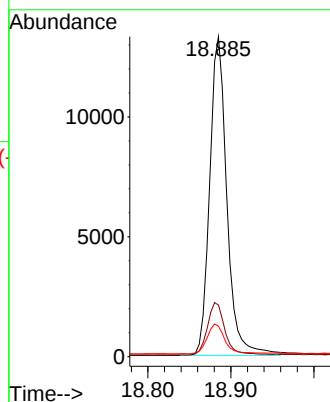
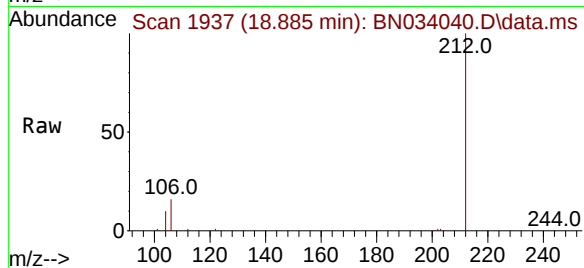
Instrument :

BNA_N

ClientSampleId :

ICVBN091924

Tgt Ion:212	Resp:	19215
Ion Ratio	Lower	Upper
212	100	
106	16.8	13.4 20.2
104	9.6	7.8 11.6



#28

Fluoranthene

Concen: 0.347 ng

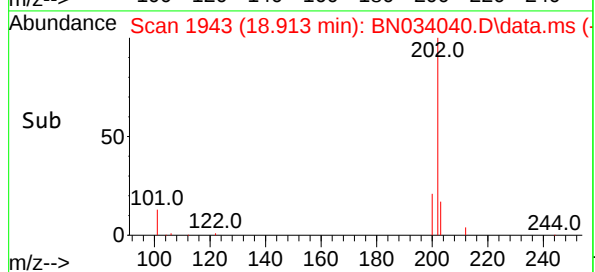
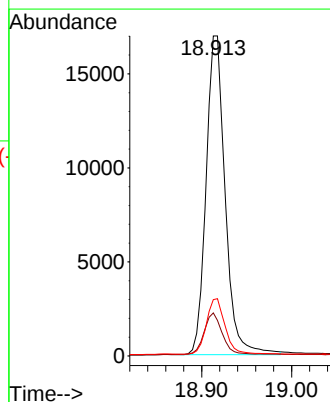
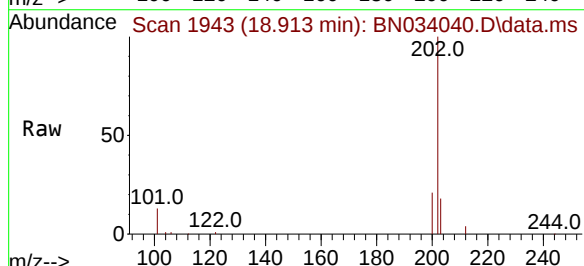
RT: 18.913 min Scan# 1943

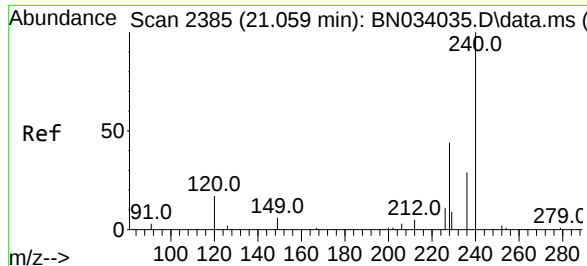
Delta R.T. -0.002 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Tgt Ion:202	Resp:	25109
Ion Ratio	Lower	Upper
202	100	
101	13.0	10.1 15.1
203	17.1	13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.062 min Scan# 24

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

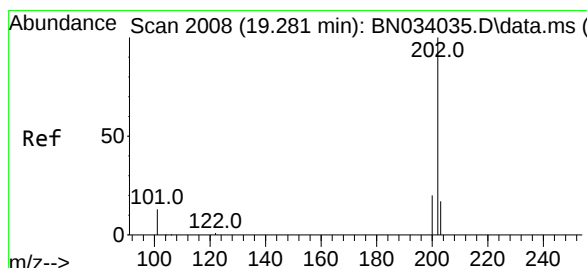
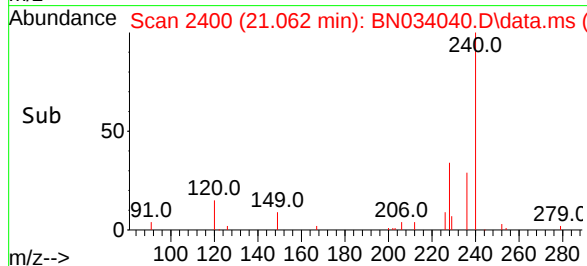
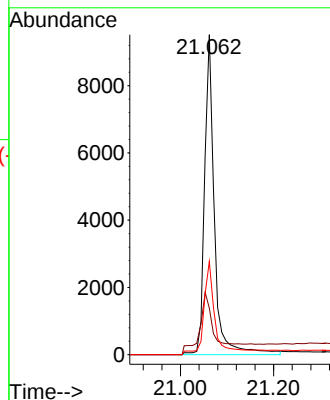
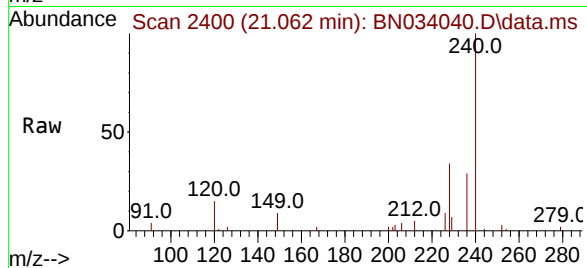
Tgt Ion:240 Resp: 13486

Ion Ratio Lower Upper

240 100

120 14.6 13.5 20.3

236 29.1 23.4 35.0



#30

Pyrene

Concen: 0.450 ng

RT: 19.280 min Scan# 2022

Delta R.T. -0.002 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

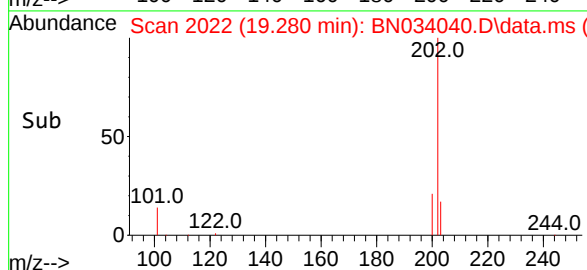
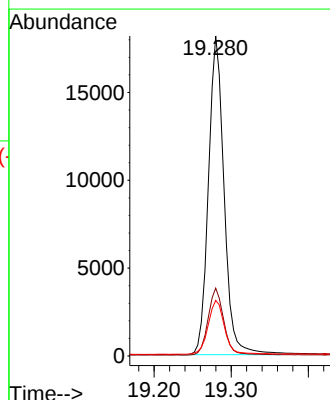
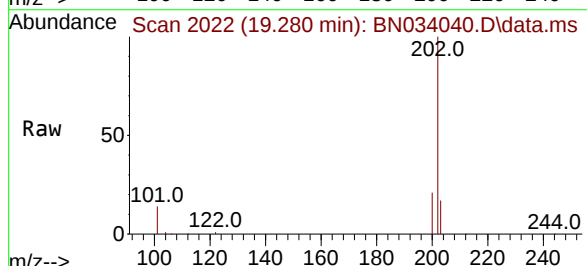
Tgt Ion:202 Resp: 25618

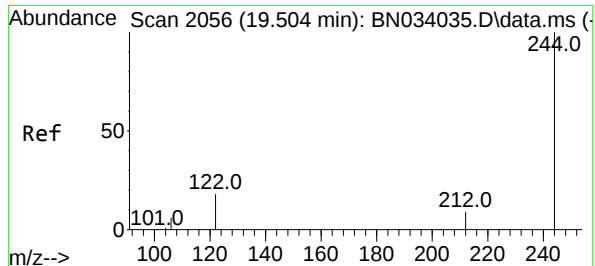
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.7 14.3 21.5

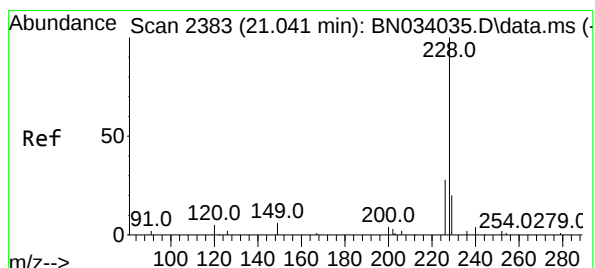
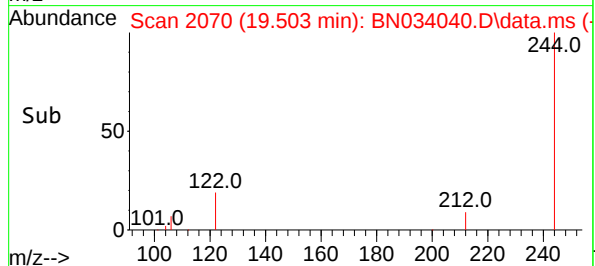
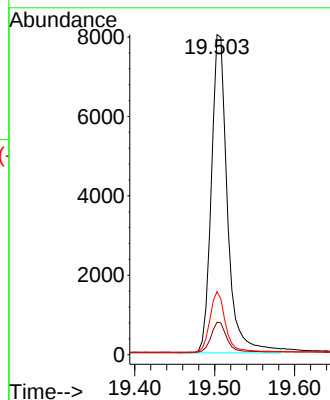
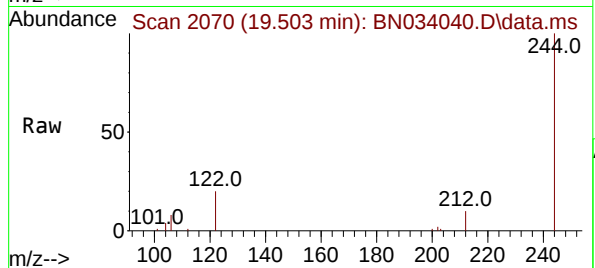




#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.503 min Scan# 2056
Delta R.T. -0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

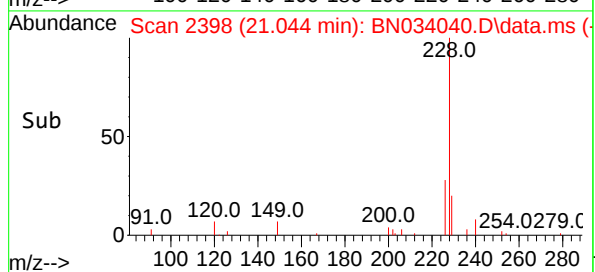
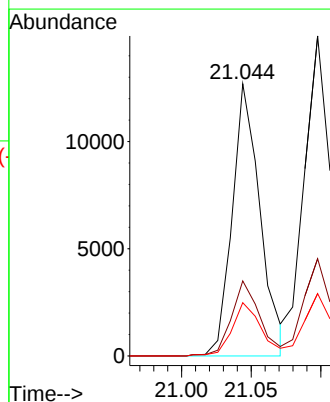
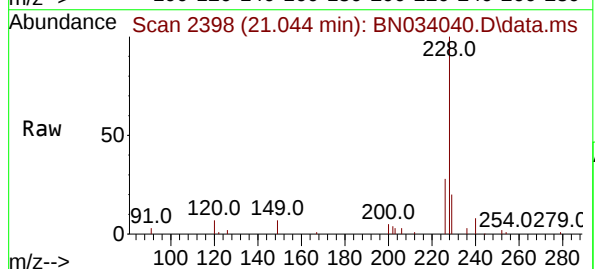
Instrument :
BNA_N
ClientSampleId :
ICVBN091924

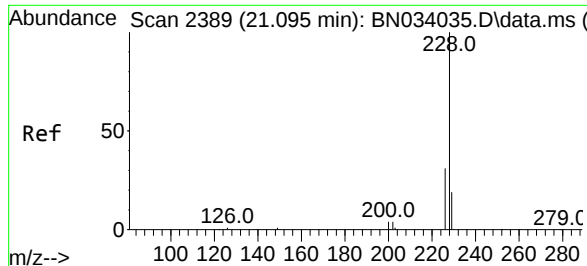
Tgt Ion:244 Resp: 11191
Ion Ratio Lower Upper
244 100
212 10.2 7.8 11.6
122 19.7 14.8 22.2



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:228 Resp: 15786
Ion Ratio Lower Upper
228 100
226 27.6 22.3 33.5
229 19.5 15.7 23.5





#33

Chrysene

Concen: 0.403 ng

RT: 21.098 min Scan# 2404

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

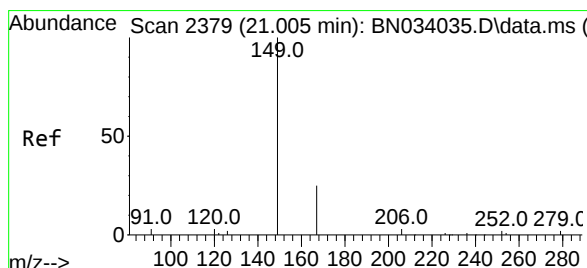
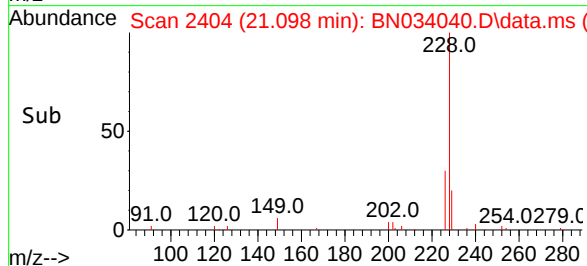
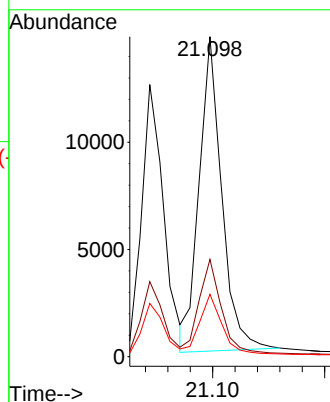
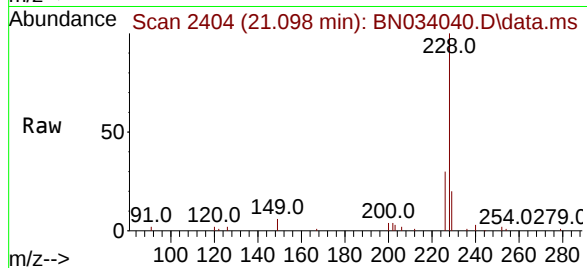
Tgt Ion:228 Resp: 20535

Ion Ratio Lower Upper

228 100

226 30.4 24.6 37.0

229 19.5 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.368 ng

RT: 21.008 min Scan# 2394

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

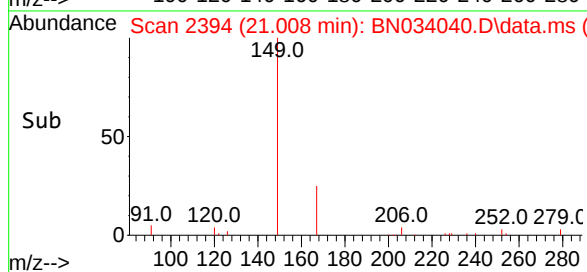
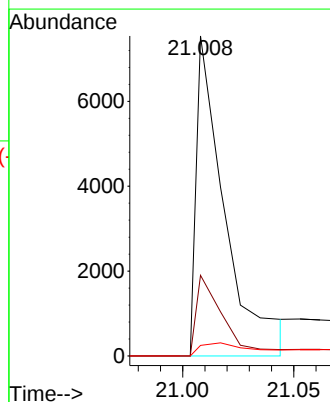
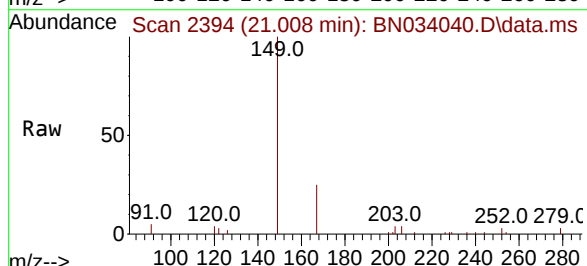
Tgt Ion:149 Resp: 6532

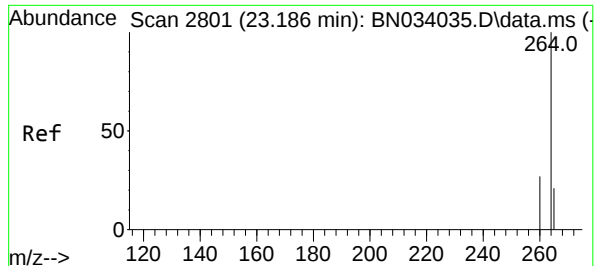
Ion Ratio Lower Upper

149 100

167 24.2 19.9 29.9

279 7.2 4.6 6.8#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.189 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

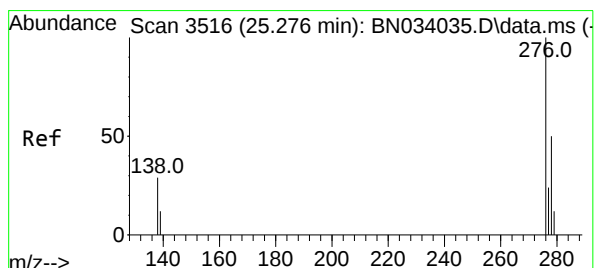
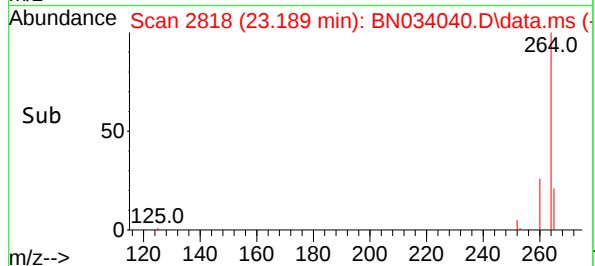
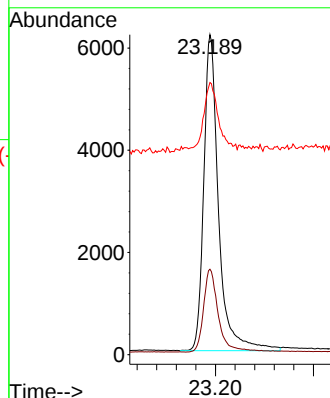
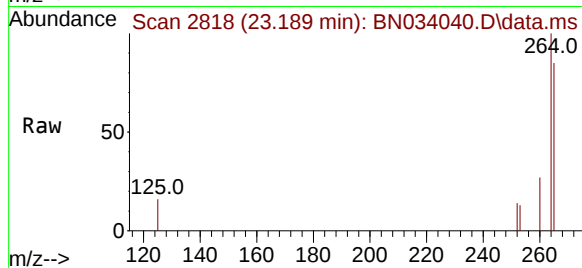
Tgt Ion:264 Resp: 12946

Ion Ratio Lower Upper

264 100

260 26.7 21.7 32.5

265 85.1 52.1 78.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.402 ng

RT: 25.279 min Scan# 3533

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

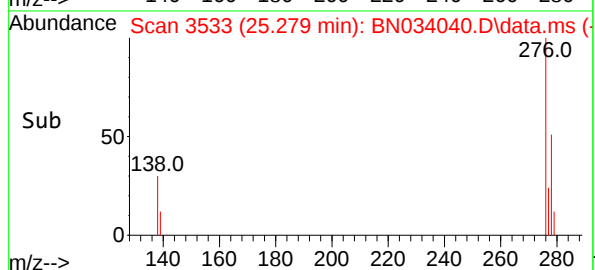
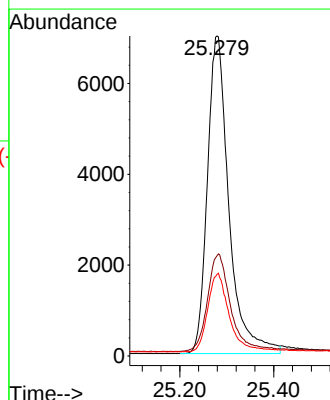
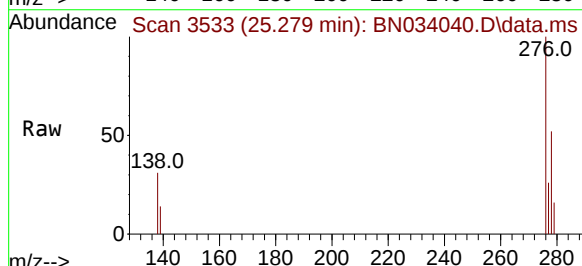
Tgt Ion:276 Resp: 22278

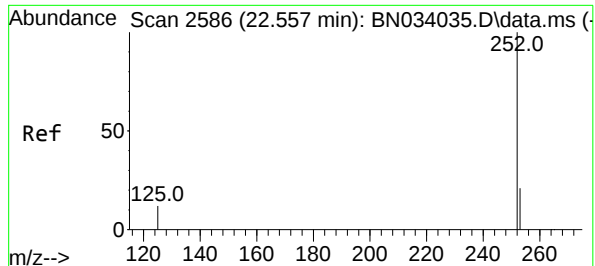
Ion Ratio Lower Upper

276 100

138 33.0 25.9 38.9

277 24.9 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.563 min Scan# 20

Delta R.T. 0.006 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

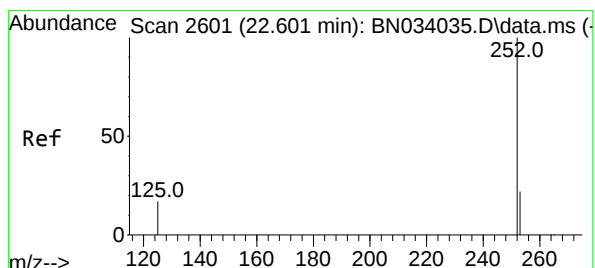
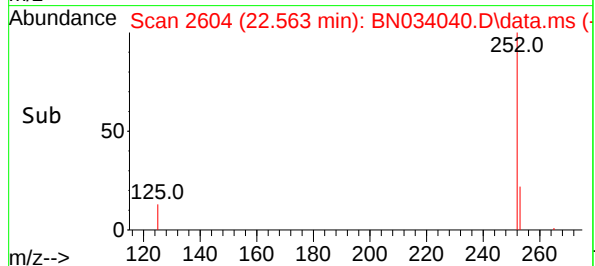
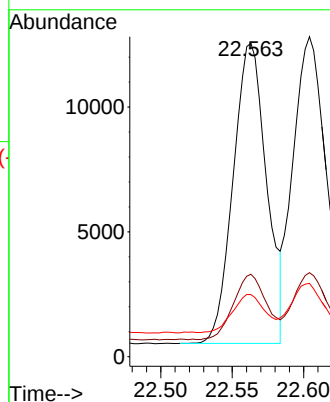
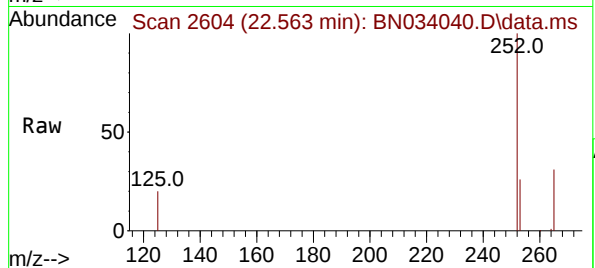
Tgt Ion:252 Resp: 19554

Ion Ratio Lower Upper

252 100

253 26.3 19.6 29.4

125 19.8 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.411 ng

RT: 22.604 min Scan# 2618

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

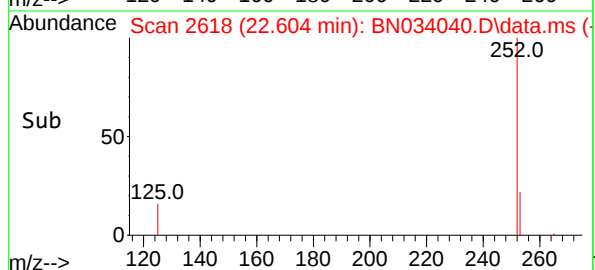
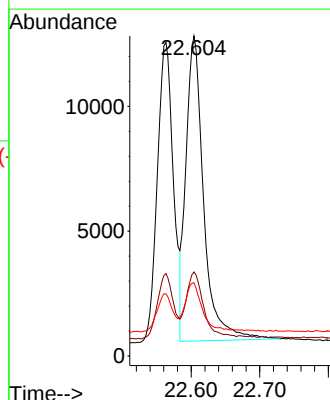
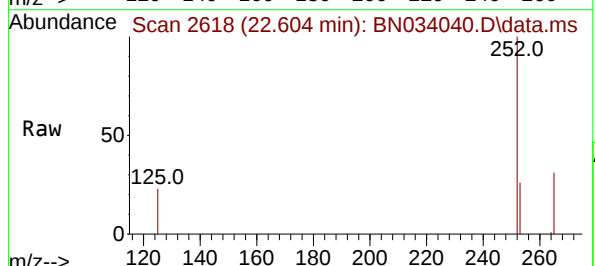
Tgt Ion:252 Resp: 21903

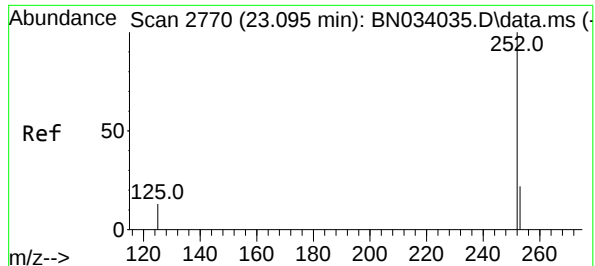
Ion Ratio Lower Upper

252 100

253 26.3 20.1 30.1

125 22.9 16.8 25.2





#39

Benzo(a)pyrene

Concen: 0.387 ng

RT: 23.098 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924

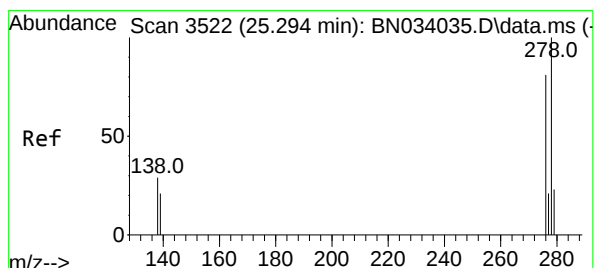
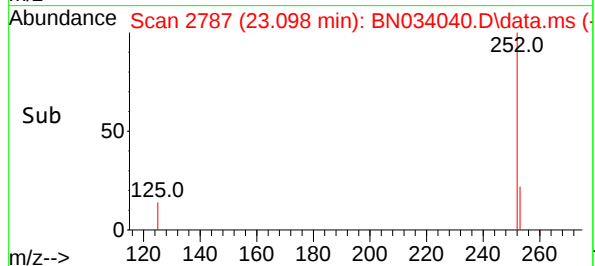
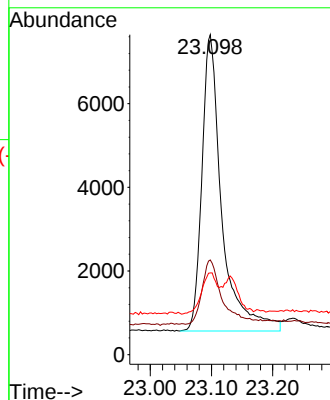
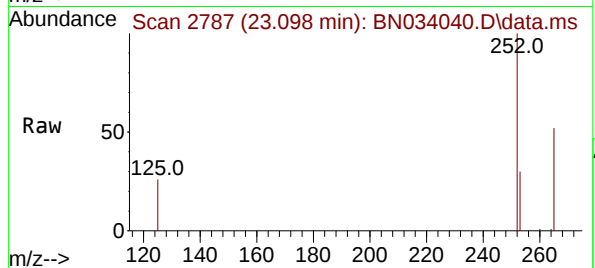
Tgt Ion:252 Resp: 15991

Ion Ratio Lower Upper

252 100

253 29.6 21.8 32.8

125 25.6 17.5 26.3



#40

Dibenzo(a,h)anthracene

Concen: 0.395 ng

RT: 25.297 min Scan# 3539

Delta R.T. 0.003 min

Lab File: BN034040.D

Acq: 18 Sep 2024 18:01

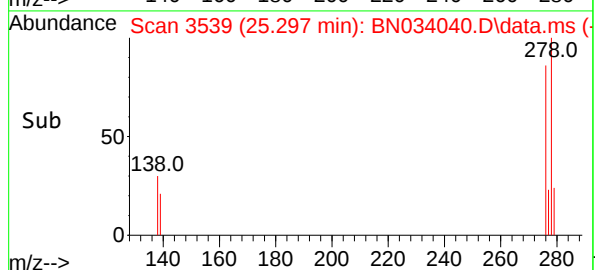
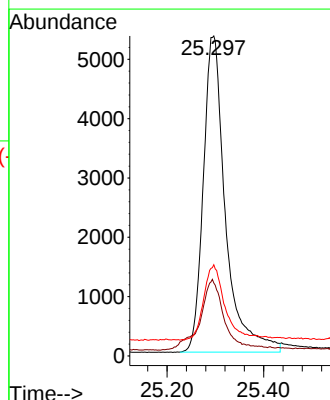
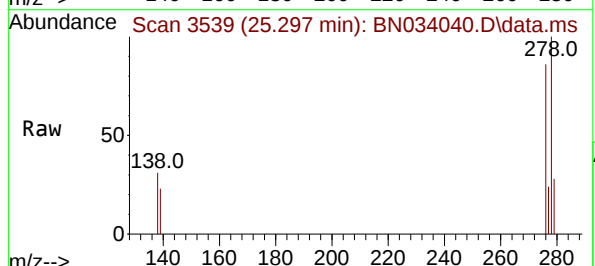
Tgt Ion:278 Resp: 17016

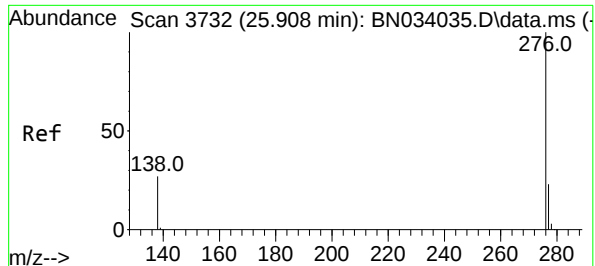
Ion Ratio Lower Upper

278 100

139 22.8 17.8 26.8

279 28.5 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 25.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN034040.D

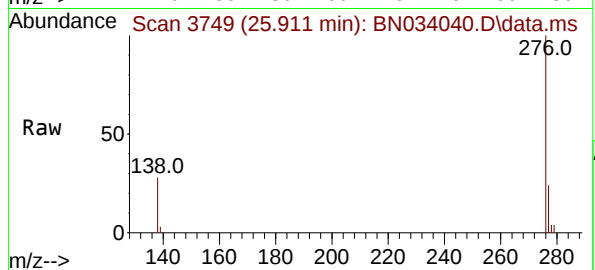
Acq: 18 Sep 2024 18:01

Instrument :

BNA_N

ClientSampleId :

ICVBN091924



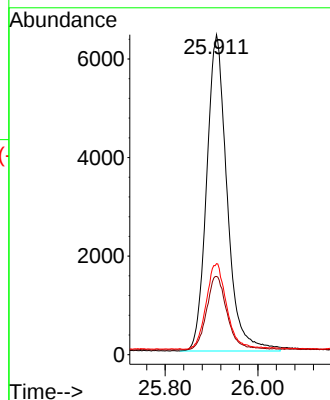
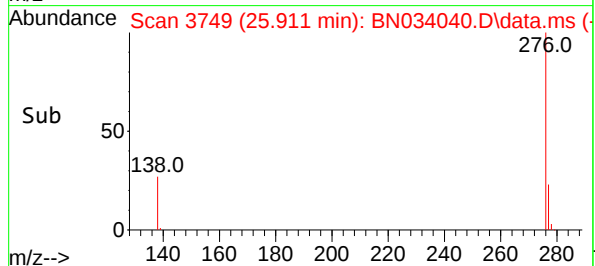
Tgt Ion:276 Resp: 19666

Ion Ratio Lower Upper

276 100

277 24.4 19.3 28.9

138 28.5 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034040.D
 Acq On : 18 Sep 2024 18:01
 Operator : JU/RC
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN091924

Quant Time: Sep 18 18:29:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 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	109	0.00
2	1,4-Dioxane	0.500	0.526	-5.2	113	0.00
3	n-Nitrosodimethylamine	0.569	0.568	0.2	112	0.00
4 S	2-Fluorophenol	1.135	1.255	-10.6	127	0.00
5 S	Phenol-d6	1.320	1.341	-1.6	122	0.00
6	bis(2-Chloroethyl)ether	1.168	1.110	5.0	109	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.306	0.273	10.8	104	0.00
9	Naphthalene	1.098	1.073	2.3	108	0.00
10	Hexachlorobutadiene	0.207	0.210	-1.4	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.591	0.547	7.4	104	0.00
12	2-Methylnaphthalene	0.714	0.662	7.3	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
14 S	2,4,6-Tribromophenol	0.181	0.171	5.5	108	0.00
15 S	2-Fluorobiphenyl	1.627	1.646	-1.2	103	0.00
16	Acenaphthylene	1.712	1.592	7.0	102	0.00
17	Acenaphthene	1.228	1.220	0.7	102	0.00
18	Fluorene	1.612	1.527	5.3	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.043	24.6	83	0.00
21	4-Bromophenyl-phenylether	0.225	0.217	3.6	91	0.00
22	Hexachlorobenzene	0.252	0.264	-4.8	95	0.00
23	Atrazine	0.186	0.171	8.1	90	0.00
24	Pentachlorophenol	0.083	0.080	3.6	103	0.00
25	Phenanthrene	1.149	1.117	2.8	90	0.00
26	Anthracene	0.937	0.841	10.2	89	0.00
27 SURR	Fluoranthene-d10	1.009	0.884	12.4	83	0.00
28	Fluoranthene	1.331	1.155	13.2	82	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	73	0.00
30	Pyrene	1.688	1.900	-12.6	82	0.00
31 S	Terphenyl-d14	0.799	0.830	-3.9	76	0.00
32	Benzo(a)anthracene	1.265	1.171	7.4	72	0.00
33	Chrysene	1.510	1.523	-0.9	73	0.00
34	Bis(2-ethylhexyl)phthalate	0.527	0.484	8.2	64	0.00
35 I	Perylene-d12	1.000	1.000	0.0	67	0.00
36	Indeno(1,2,3-cd)pyrene	1.714	1.721	-0.4	65	0.00
37	Benzo(b)fluoranthene	1.567	1.510	3.6	69	0.00
38	Benzo(k)fluoranthene	1.645	1.692	-2.9	69	0.00
39 C	Benzo(a)pyrene	1.277	1.235	3.3	69	0.00
40	Dibenzo(a,h)anthracene	1.331	1.314	1.3	65	0.00
41	Benzo(g,h,i)perylene	1.495	1.519	-1.6	67	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 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	109	0.00
2	1,4-Dioxane	0.400	0.420	-5.0	113	0.00
3	n-Nitrosodimethylamine	0.400	0.399	0.3	112	0.00
4 S	2-Fluorophenol	0.400	0.442	-10.5	127	0.00
5 S	Phenol-d6	0.400	0.406	-1.5	122	0.00
6	bis(2-Chloroethyl)ether	0.400	0.380	5.0	109	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.357	10.8	104	0.00
9	Naphthalene	0.400	0.391	2.3	108	0.00
10	Hexachlorobutadiene	0.400	0.406	-1.5	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	104	0.00
12	2-Methylnaphthalene	0.400	0.371	7.3	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	98	0.00
14 S	2,4,6-Tribromophenol	0.400	0.377	5.8	108	0.00
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	103	0.00
16	Acenaphthylene	0.400	0.372	7.0	102	0.00
17	Acenaphthene	0.400	0.397	0.8	102	0.00
18	Fluorene	0.400	0.379	5.3	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	90	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.370	7.5	83	0.00
21	4-Bromophenyl-phenylether	0.400	0.386	3.5	91	0.00
22	Hexachlorobenzene	0.400	0.419	-4.7	95	0.00
23	Atrazine	0.400	0.367	8.3	90	0.00
24	Pentachlorophenol	0.400	0.386	3.5	103	0.00
25	Phenanthrene	0.400	0.389	2.8	90	0.00
26	Anthracene	0.400	0.359	10.3	89	0.00
27 SURR	Fluoranthene-d10	0.400	0.350	12.5	83	0.00
28	Fluoranthene	0.400	0.347	13.3	82	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	73	0.00
30	Pyrene	0.400	0.450	-12.5	82	0.00
31 S	Terphenyl-d14	0.400	0.415	-3.7	76	0.00
32	Benzo(a)anthracene	0.400	0.370	7.5	72	0.00
33	Chrysene	0.400	0.403	-0.8	73	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.368	8.0	64	0.00
35 I	Perylene-d12	0.400	0.400	0.0	67	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.402	-0.5	65	0.00
37	Benzo(b)fluoranthene	0.400	0.386	3.5	69	0.00
38	Benzo(k)fluoranthene	0.400	0.411	-2.7	69	0.00
39 C	Benzo(a)pyrene	0.400	0.387	3.3	69	0.00
40	Dibenzo(a,h)anthracene	0.400	0.395	1.3	65	0.00
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	67	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: BNA_N Calibration Date/Time: 09/19/2024 09:33

Lab File ID: BN034046.D Init. Calib. Date(s): 09/18/2024 09/18/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:53 15:30

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.591	0.561		-5.1	20.0
Fluoranthene-d10	1.009	0.960		-4.9	20.0
n-Nitrosodimethylamine	0.569	0.555		-2.5	20.0
2-Fluorophenol	1.135	1.226		8.0	20.0
Phenol-d6	1.320	1.358		2.9	20.0
Nitrobenzene-d5	0.306	0.275		-10.1	20.0
Hexachlorobutadiene	0.207	0.204		-1.4	20.0
2-Fluorobiphenyl	1.627	1.623		-0.2	20.0
2,4,6-Tribromophenol	0.181	0.186		2.8	20.0
Hexachlorobenzene	0.252	0.252		0.0	20.0
Atrazine	0.186	0.204		9.7	20.0
Terphenyl-d14	0.799	0.858		7.4	20.0
1,4-Dioxane	0.500	0.491		-1.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
 Data File : BN034046.D
 Acq On : 19 Sep 2024 09:33
 Operator : JU/RC
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 18 16:09:28 2024
 Response via : Initial Calibration

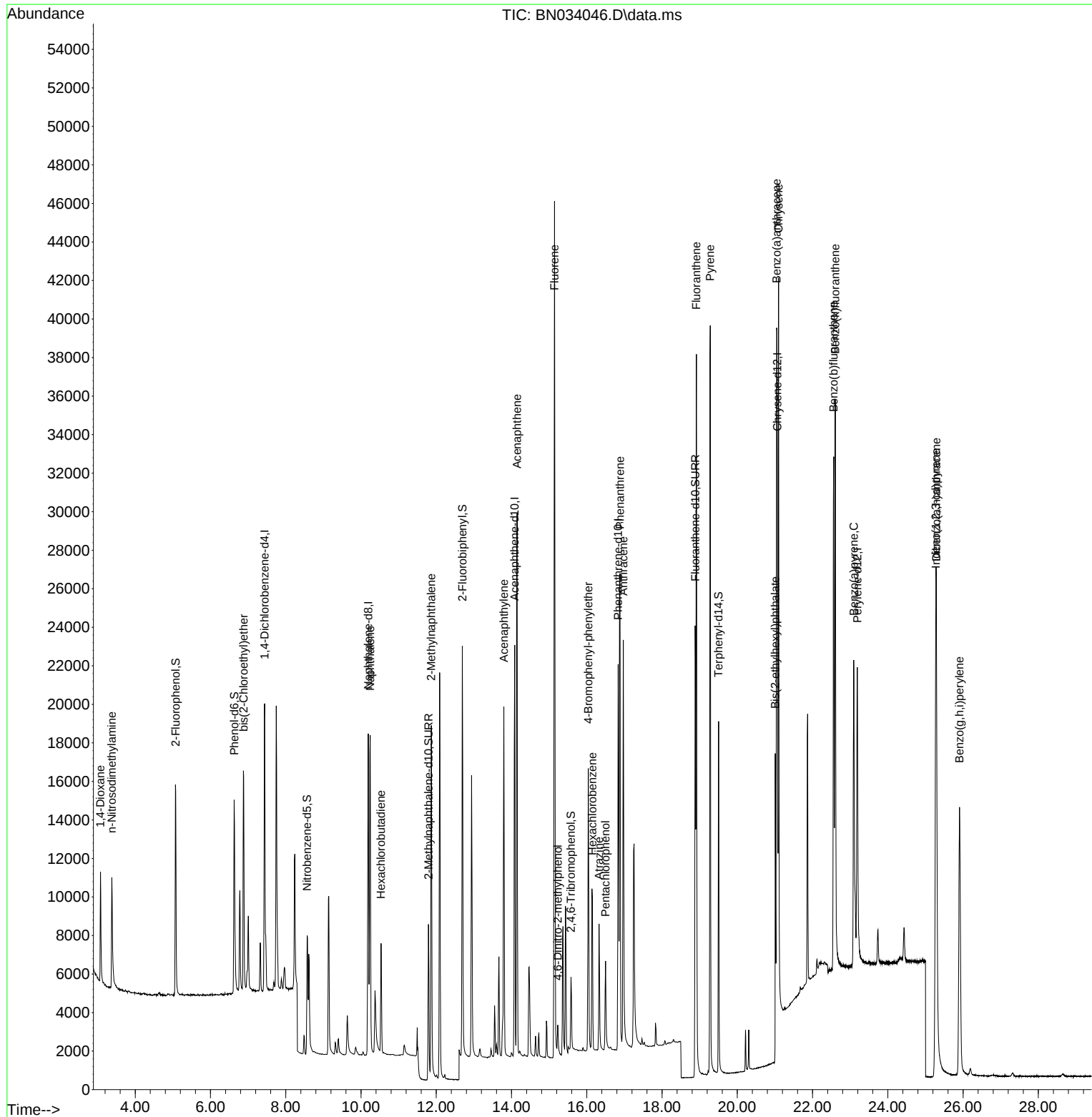
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7320	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	21524	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	11978	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	26692	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	20522	0.400	ng	# 0.00
35) Perylene-d12	23.189	264	20864	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	8977	0.432	ng	0.00
5) Phenol-d6	6.629	99	9942	0.411	ng	0.00
8) Nitrobenzene-d5	8.568	82	5912	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	11.791	152	12069	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.580	330	2226	0.410	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	19445	0.399	ng	0.00
27) Fluoranthene-d10	18.880	212	25616	0.380	ng	0.00
31) Terphenyl-d14	19.503	244	17600	0.429	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.075	88	3596	0.393	ng	92
3) n-Nitrosodimethylamine	3.379	42	4063	0.390	ng	# 97
6) bis(2-Chloroethyl)ether	6.882	93	8154	0.381	ng	99
9) Naphthalene	10.244	128	22814	0.386	ng	99
10) Hexachlorobutadiene	10.532	225	4385	0.394	ng	# 99
12) 2-Methylnaphthalene	11.867	142	14481	0.377	ng	99
16) Acenaphthylene	13.795	152	19206	0.375	ng	100
17) Acenaphthene	14.147	154	14449	0.393	ng	100
18) Fluorene	15.142	166	18879	0.391	ng	100
20) 4,6-Dinitro-2-methylph...	15.227	198	1226	0.385	ng	# 79
21) 4-Bromophenyl-phenylether	16.039	248	5730	0.382	ng	# 77
22) Hexachlorobenzene	16.150	284	6719	0.399	ng	99
23) Atrazine	16.324	200	5445	0.438	ng	# 96
24) Pentachlorophenol	16.498	266	2537	0.456	ng	100
25) Phenanthrene	16.883	178	29737	0.388	ng	100
26) Anthracene	16.970	178	23159	0.370	ng	99
28) Fluoranthene	18.913	202	34065	0.384	ng	100
30) Pyrene	19.280	202	35629	0.411	ng	100
32) Benzo(a)anthracene	21.044	228	25219	0.388	ng	99
33) Chrysene	21.098	228	31694	0.409	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	8997	0.333	ng	99
36) Indeno(1,2,3-cd)pyrene	25.273	276	33340	0.373	ng	100
37) Benzo(b)fluoranthene	22.560	252	31132	0.381	ng	99
38) Benzo(k)fluoranthene	22.601	252	35099	0.409	ng	99
39) Benzo(a)pyrene	23.095	252	25374	0.381	ng	98
40) Dibenzo(a,h)anthracene	25.291	278	25266	0.364	ng	99
41) Benzo(g,h,i)perylene	25.905	276	27814	0.357	ng	100

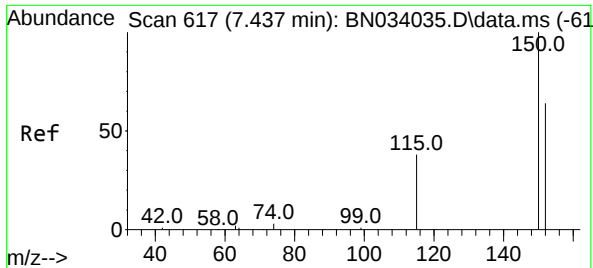
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

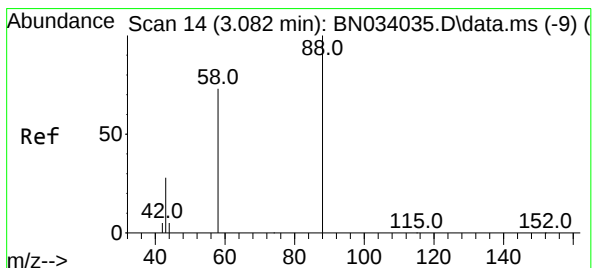
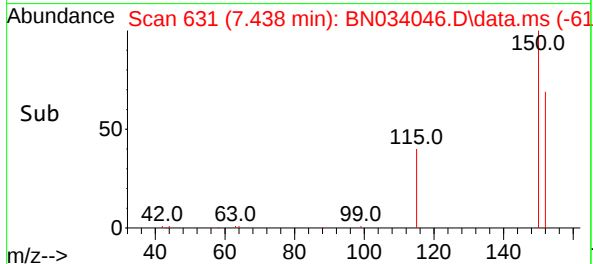
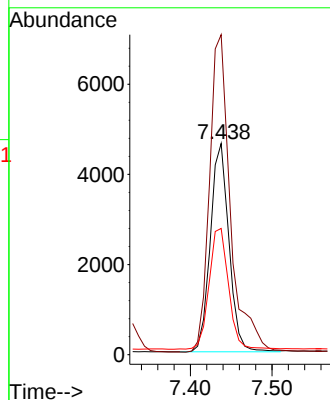
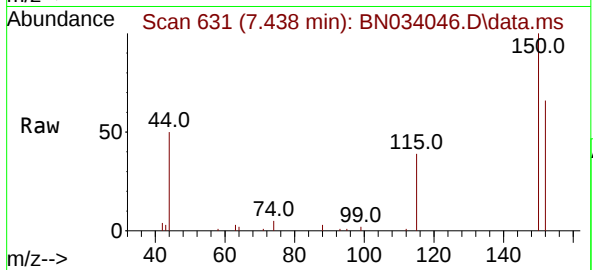




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

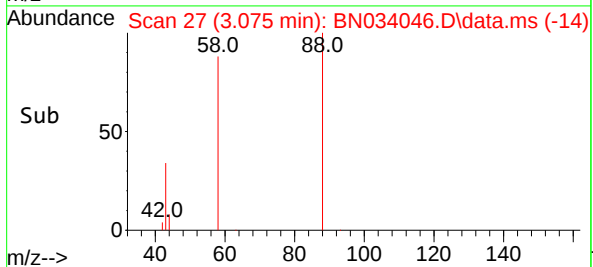
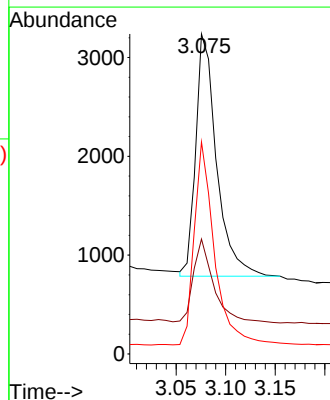
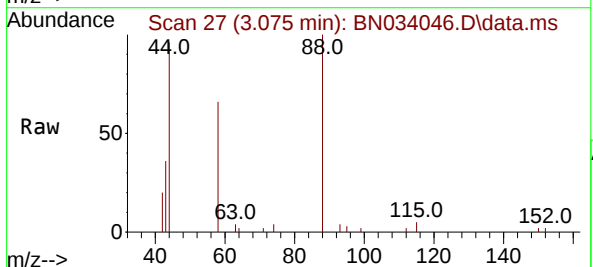
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

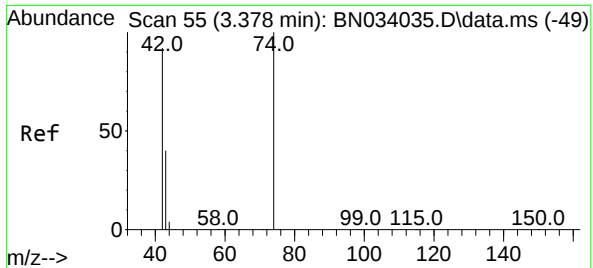
Tgt Ion:152 Resp: 7320
Ion Ratio Lower Upper
152 100
150 151.5 124.6 187.0
115 59.8 50.0 75.0



#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.075 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 88 Resp: 3596
Ion Ratio Lower Upper
88 100
43 34.0 25.8 38.8
58 81.5 58.8 88.2

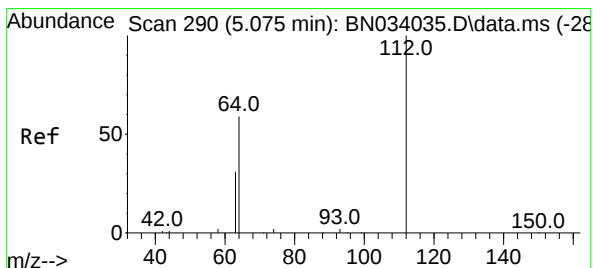
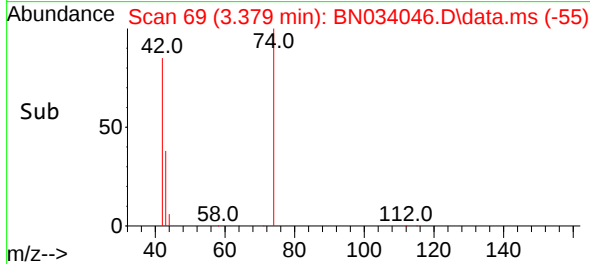
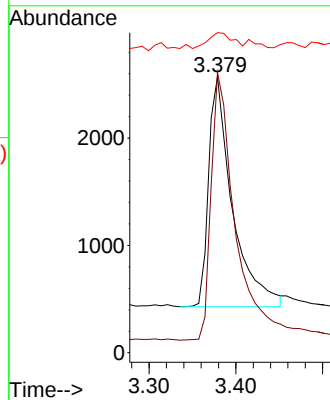
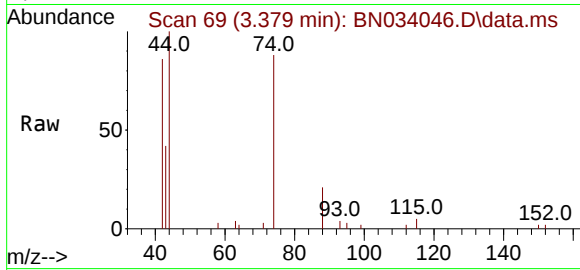




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.379 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

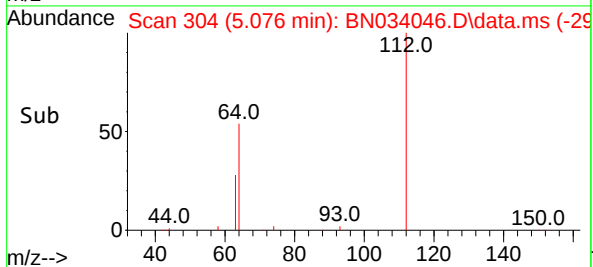
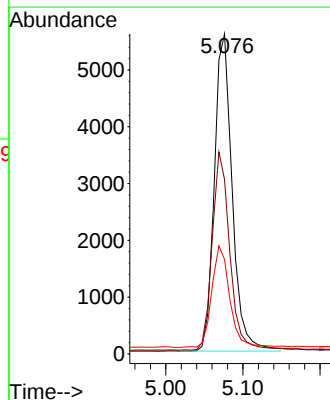
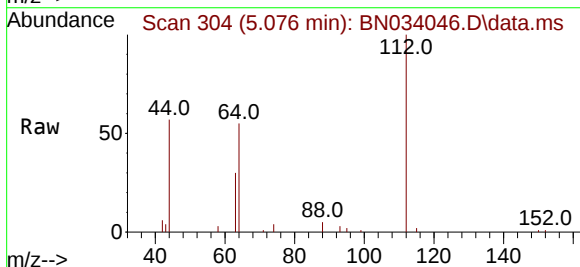
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

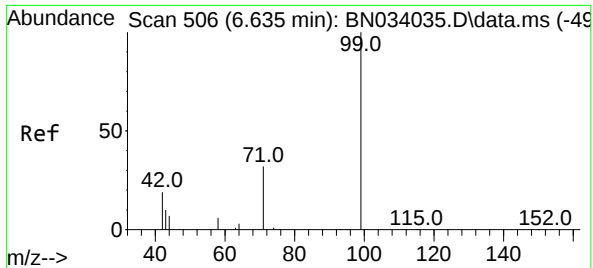
Tgt Ion: 42 Resp: 4063
Ion Ratio Lower Upper
42 100
74 117.6 94.6 142.0
44 7.6 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.432 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 112 Resp: 8977
Ion Ratio Lower Upper
112 100
64 61.3 48.6 72.8
63 32.0 25.6 38.4

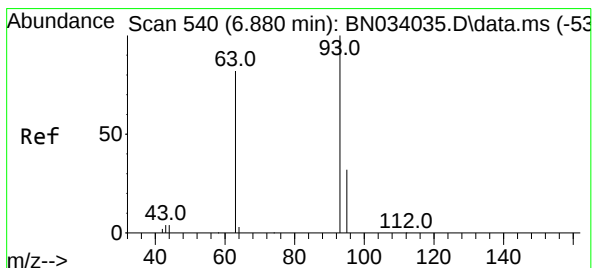
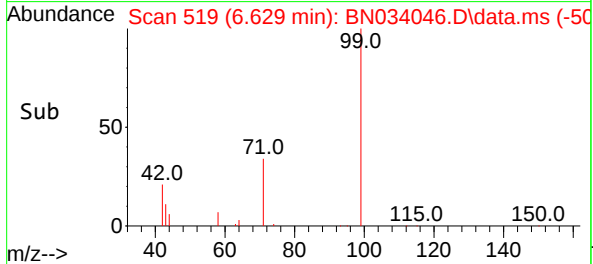
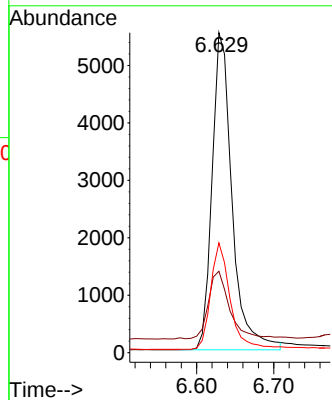
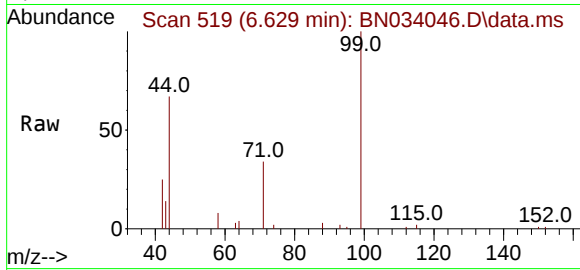




#5
Phenol-d6
Concen: 0.411 ng
RT: 6.629 min Scan# 519
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

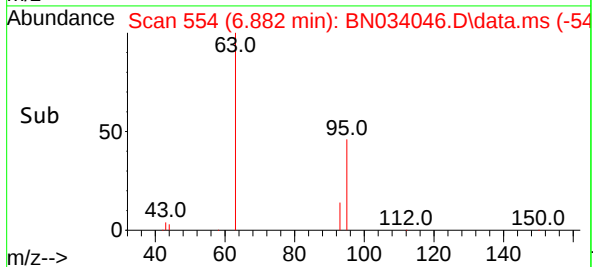
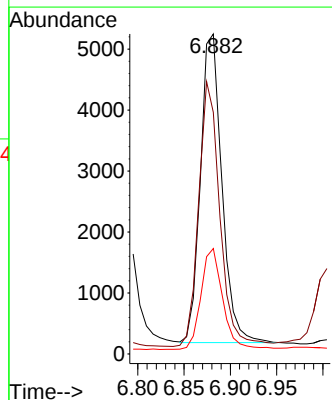
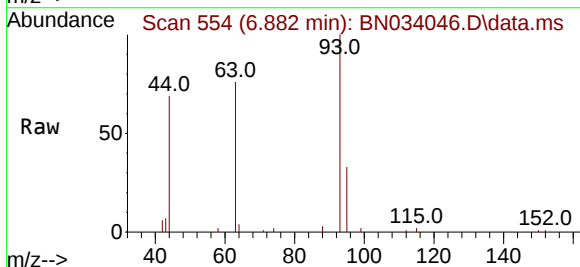
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

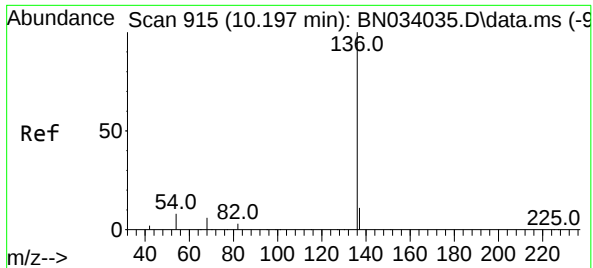
Tgt Ion: 99 Resp: 9942
Ion Ratio Lower Upper
99 100
42 23.0 17.8 26.8
71 32.6 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.882 min Scan# 554
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 93 Resp: 8154
Ion Ratio Lower Upper
93 100
63 84.9 67.3 100.9
95 33.0 26.8 40.2

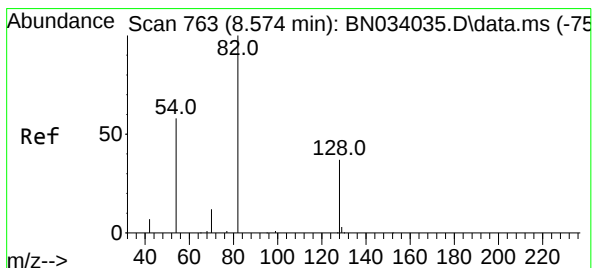
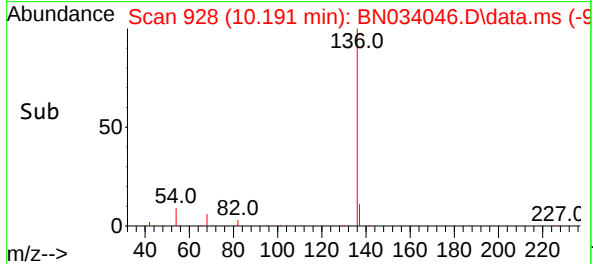
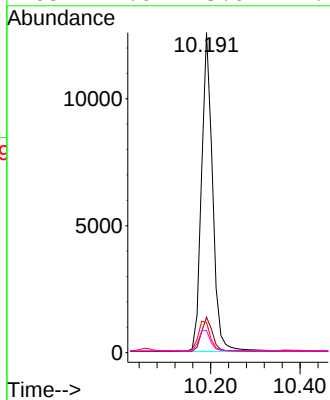
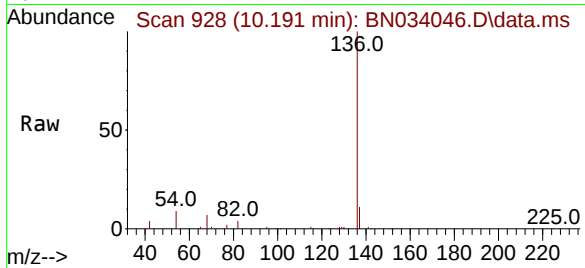




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 915
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

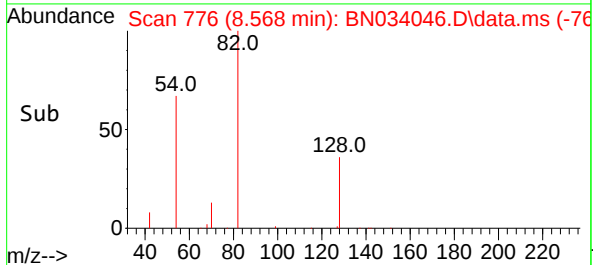
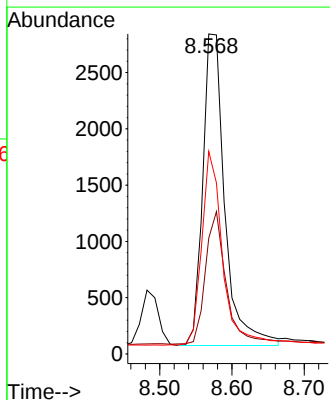
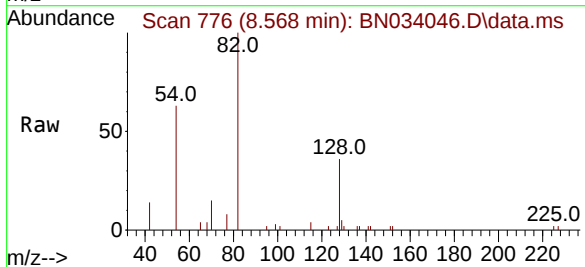
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

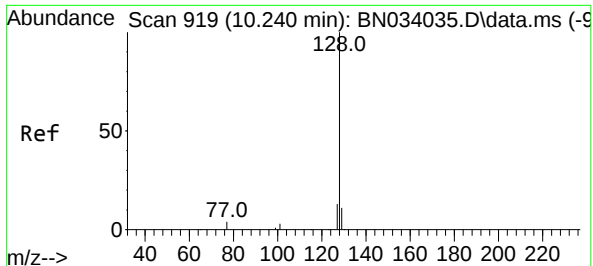
Tgt Ion:	136	Resp:	21524
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	9.5	6.8	10.2
68	7.0	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:	82	Resp:	5912
Ion	Ratio	Lower	Upper
82	100		
128	36.2	31.4	47.2
54	63.3	47.4	71.0

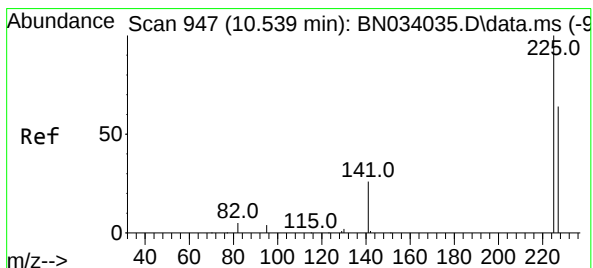
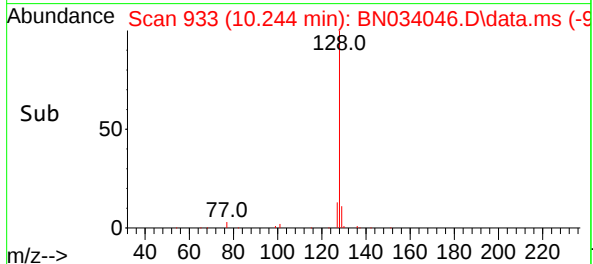
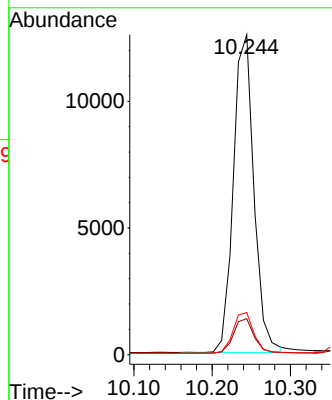
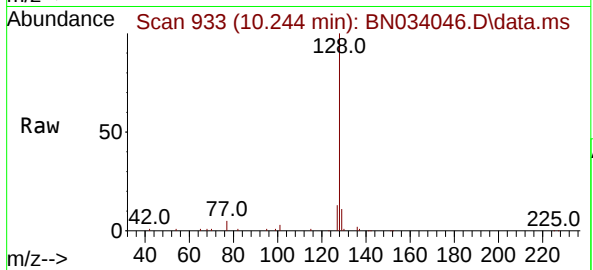




#9
Naphthalene
Concen: 0.386 ng
RT: 10.244 min Scan# 919
Delta R.T. 0.005 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

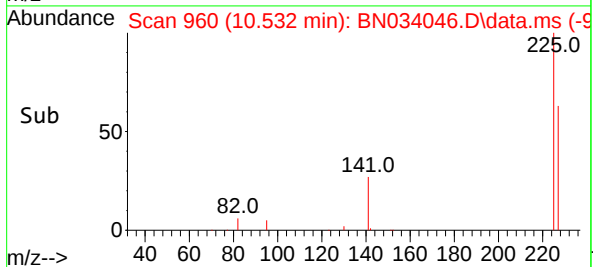
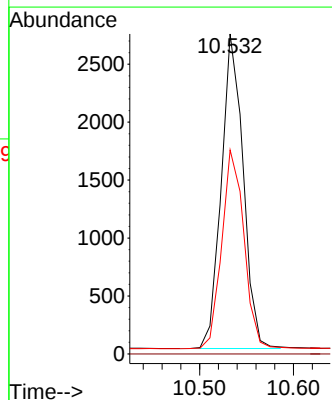
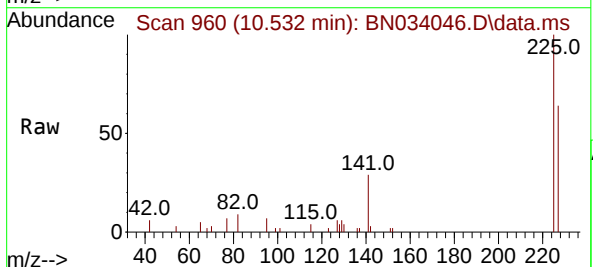
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

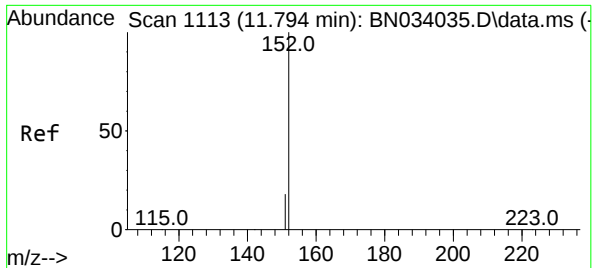
Tgt Ion:128 Resp: 22814
Ion Ratio Lower Upper
128 100
129 11.2 9.2 13.8
127 13.2 10.7 16.1



#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:225 Resp: 4385
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.5 75.7

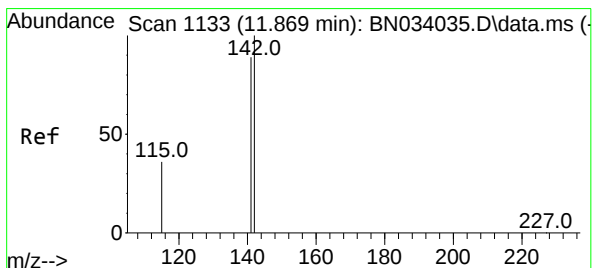
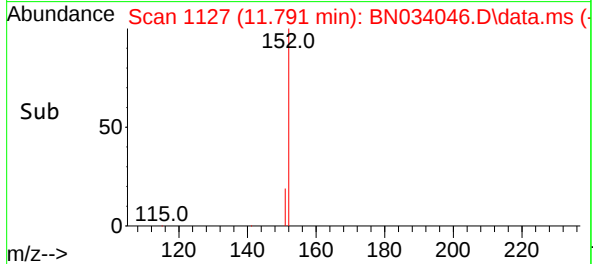
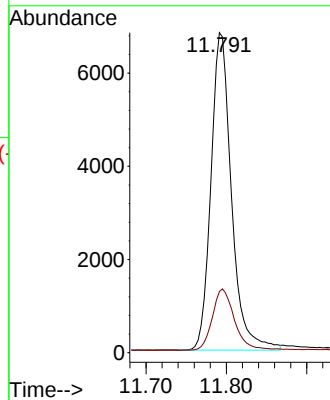
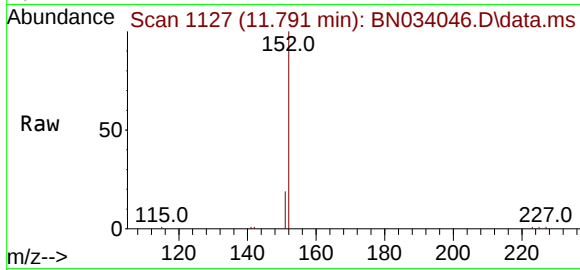




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 11.791 min Scan# 1113
Delta R.T. -0.002 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

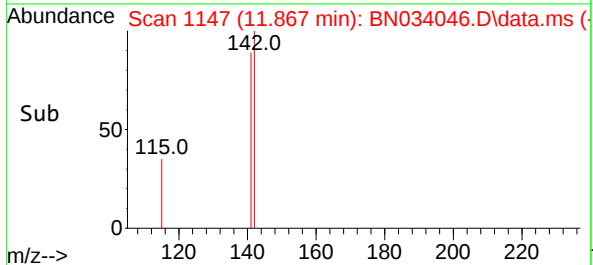
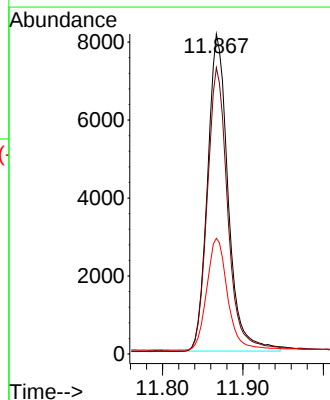
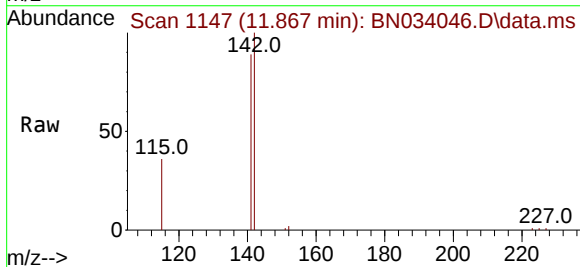
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

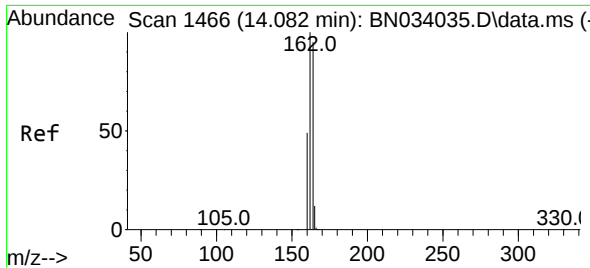
Tgt Ion:152 Resp: 12069
Ion Ratio Lower Upper
152 100
151 20.9 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:142 Resp: 14481
Ion Ratio Lower Upper
142 100
141 89.4 71.6 107.4
115 36.2 30.0 45.0

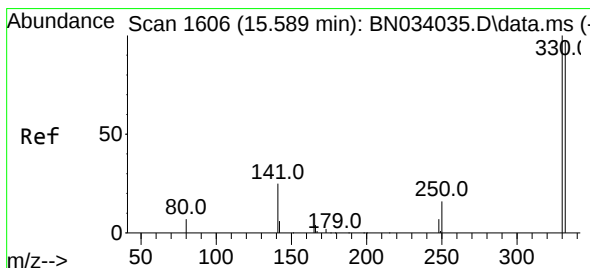
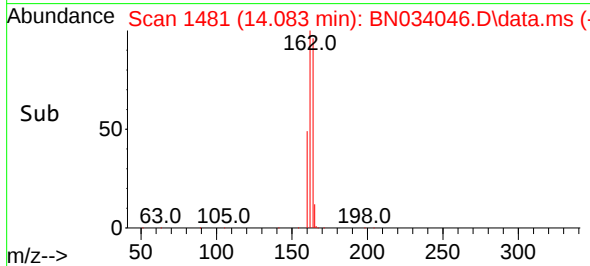
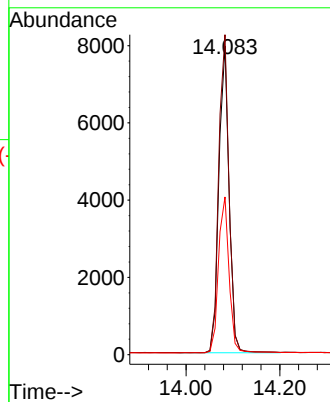
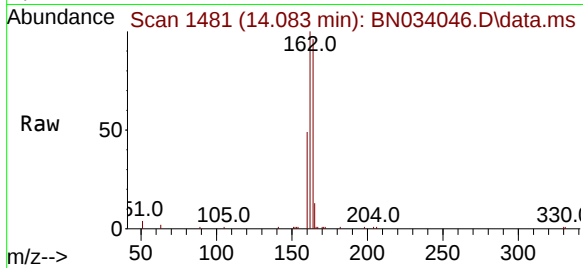




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

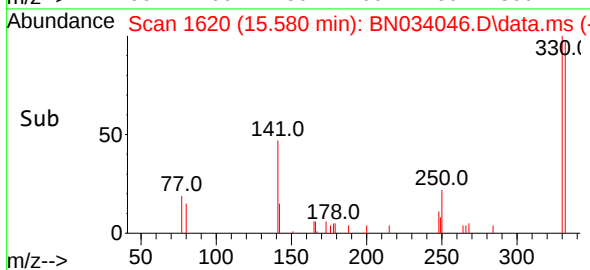
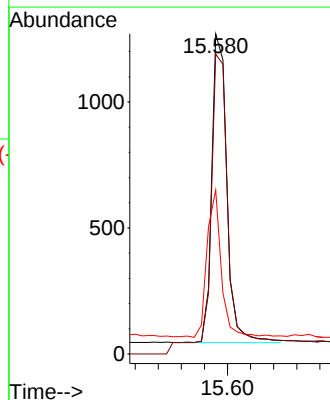
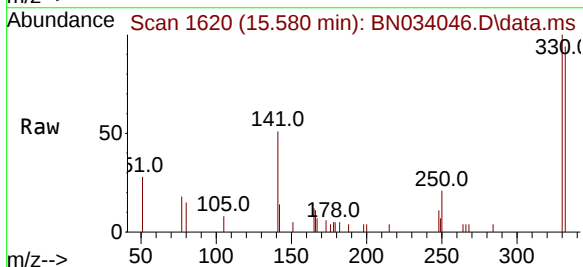
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

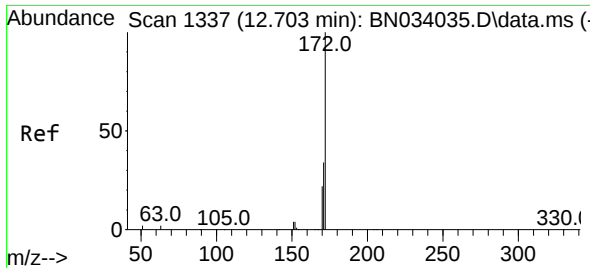
Tgt Ion	164	Resp	11978
Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.2
160	51.1	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.410 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion	330	Resp	2226
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	44.2	35.9	53.9

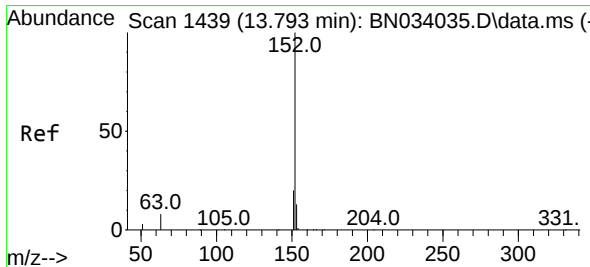
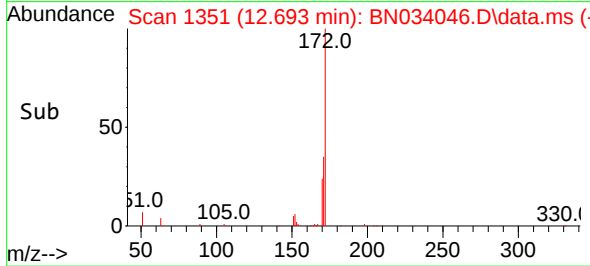
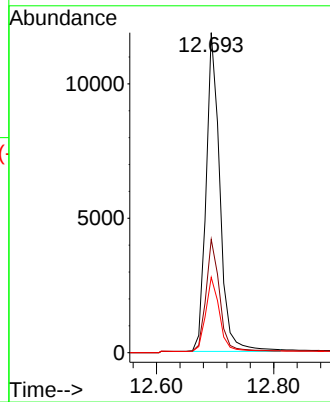
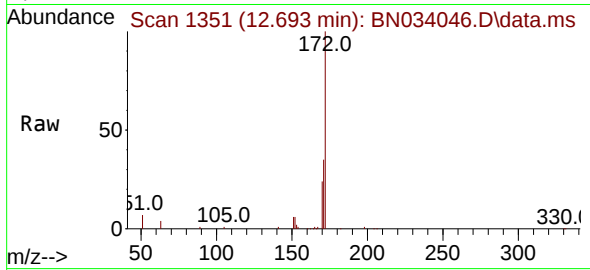




#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.693 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

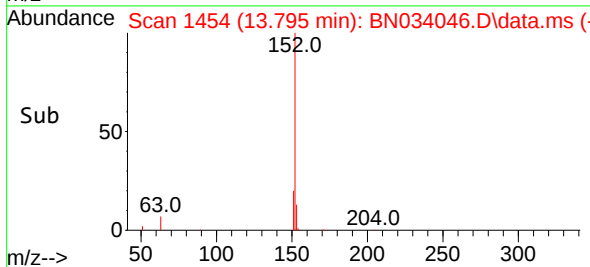
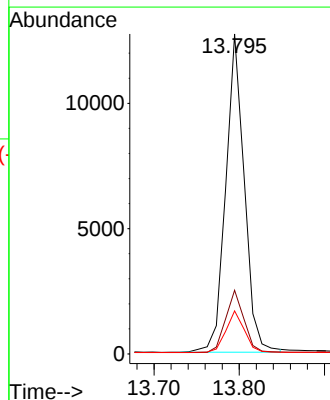
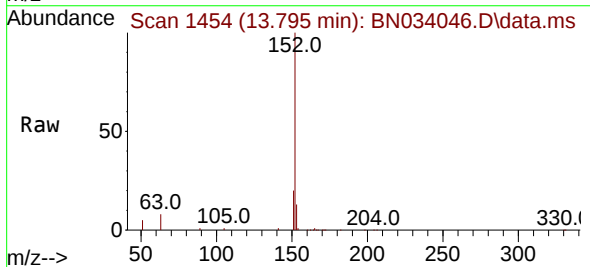
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

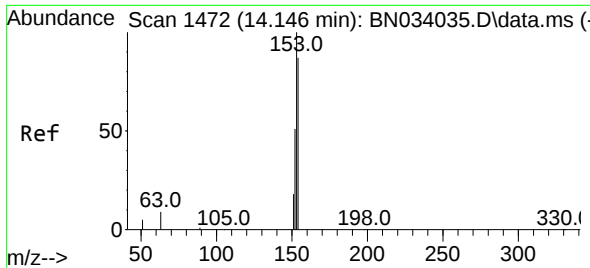
Tgt Ion:	172	Resp:	19445
Ion Ratio	Lower	Upper	
172	100		
171	35.4	27.3	40.9
170	23.6	18.1	27.1



#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:	152	Resp:	19206
Ion Ratio	Lower	Upper	
152	100		
151	19.4	15.6	23.4
153	13.2	10.3	15.5

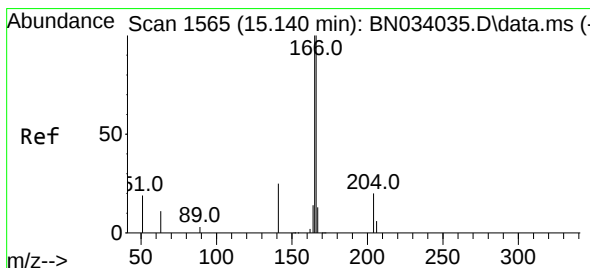
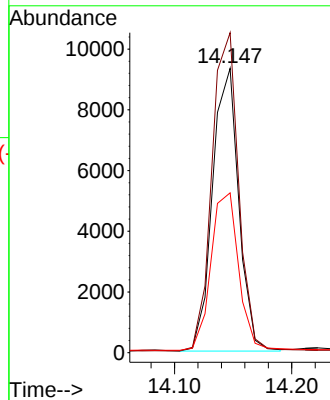
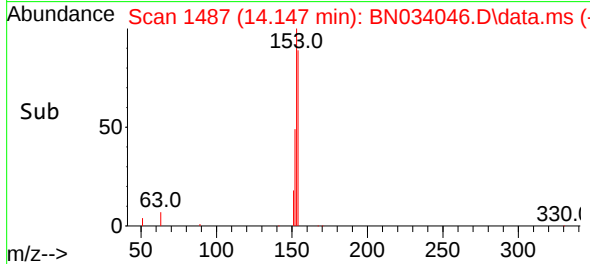
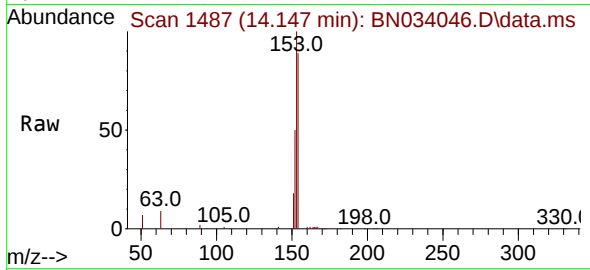




#17
Acenaphthene
Concen: 0.393 ng
RT: 14.147 min Scan# 1472
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

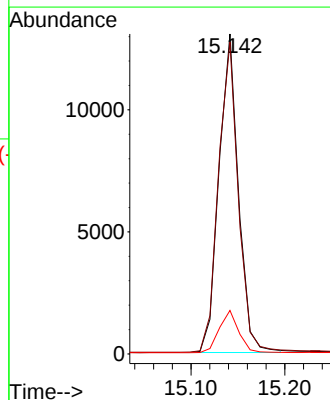
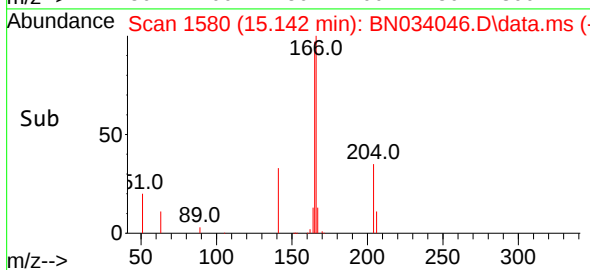
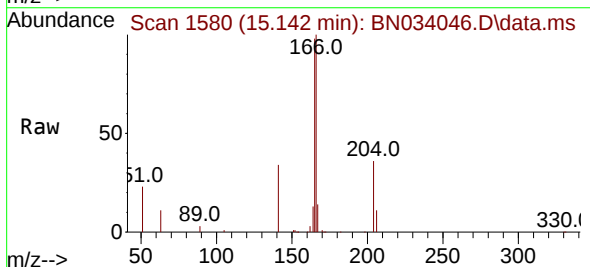
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

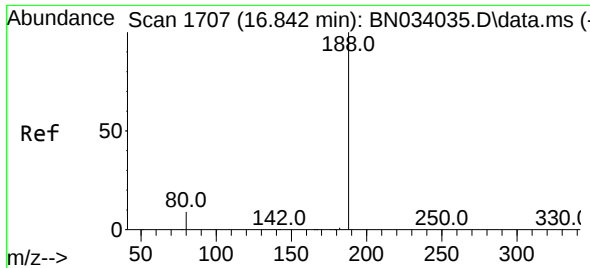
Tgt Ion:154 Resp: 14449
Ion Ratio Lower Upper
154 100
153 114.7 91.6 137.4
152 59.1 47.4 71.2



#18
Fluorene
Concen: 0.391 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:166 Resp: 18879
Ion Ratio Lower Upper
166 100
165 98.9 79.1 118.7
167 13.2 10.6 15.8

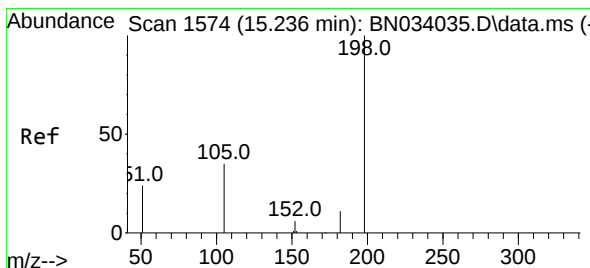
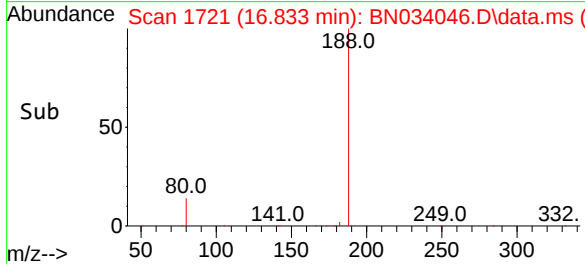
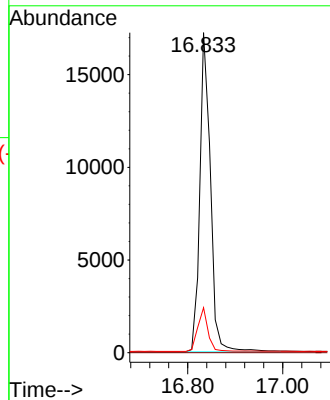
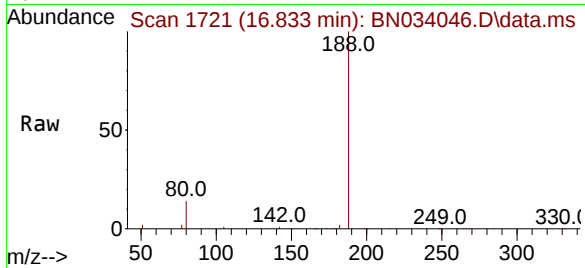




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

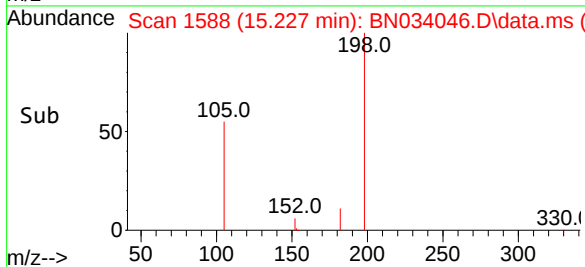
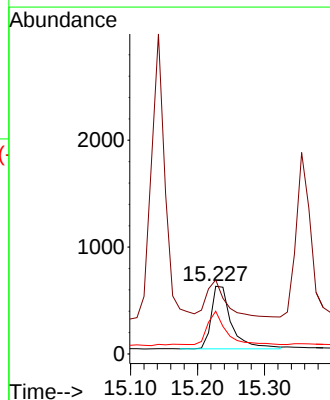
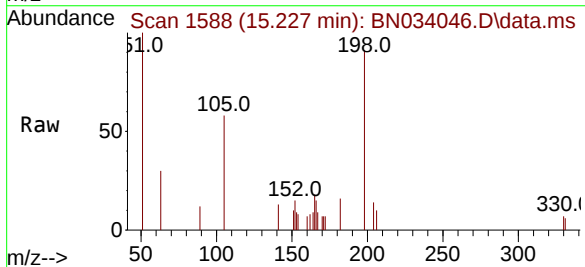
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

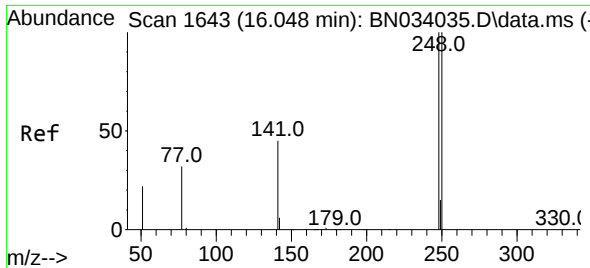
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	7.4	11.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.385 ng
RT: 15.227 min Scan# 1588
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion	Ratio	Lower	Upper
198	100		
51	109.5	106.4	159.6
105	63.2	38.5	57.7

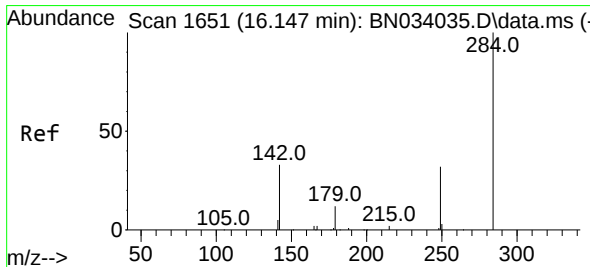
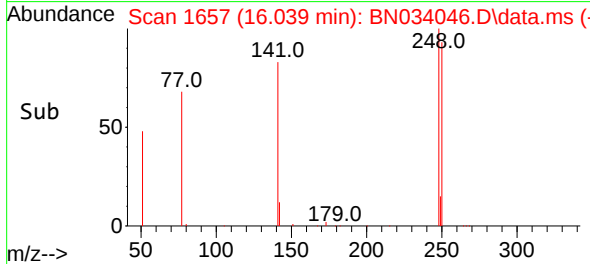
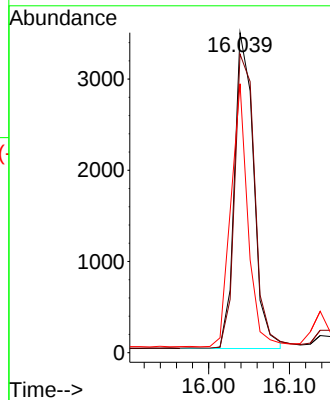
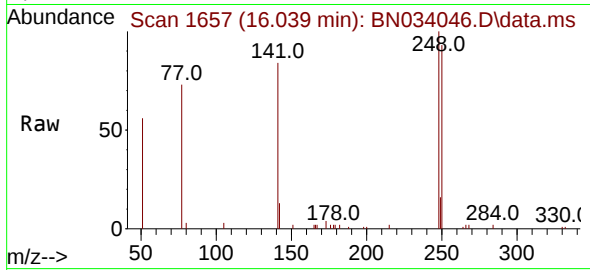




#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.039 min Scan# 1666
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

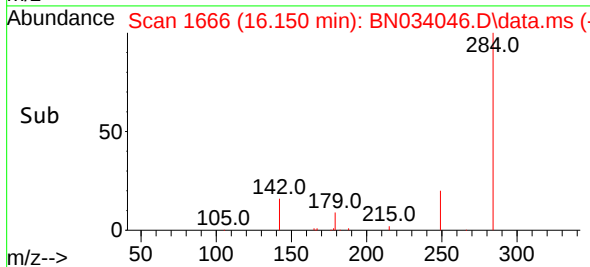
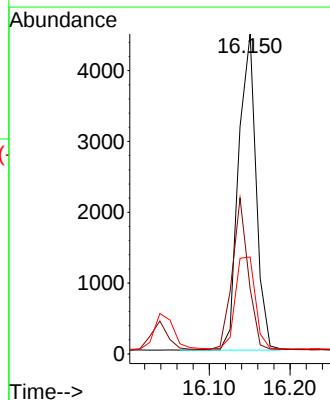
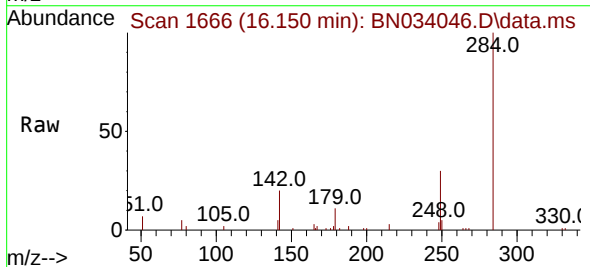
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

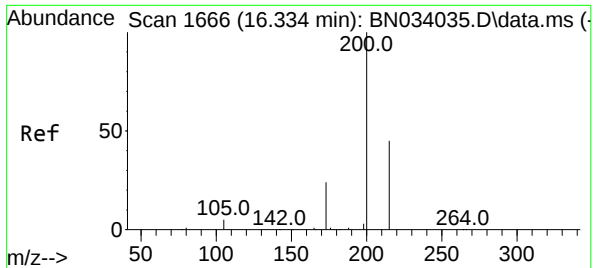
Tgt Ion:248 Resp: 5730
Ion Ratio Lower Upper
248 100
250 93.3 80.5 120.7
141 84.1 37.1 55.7#



#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.150 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:284 Resp: 6719
Ion Ratio Lower Upper
284 100
142 43.6 34.5 51.7
249 32.8 25.8 38.6

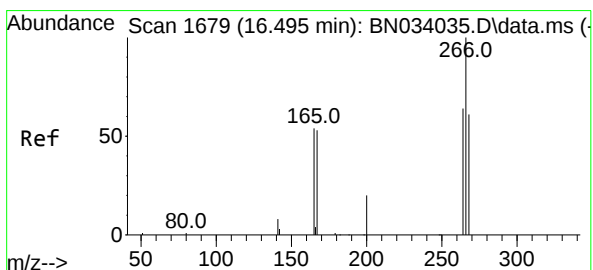
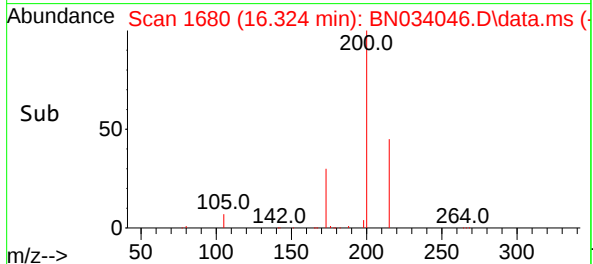
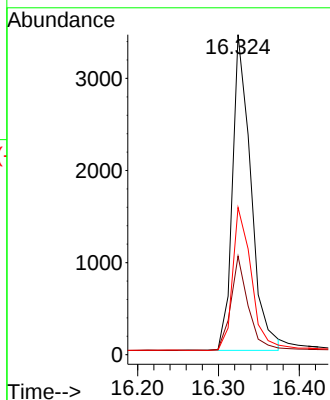
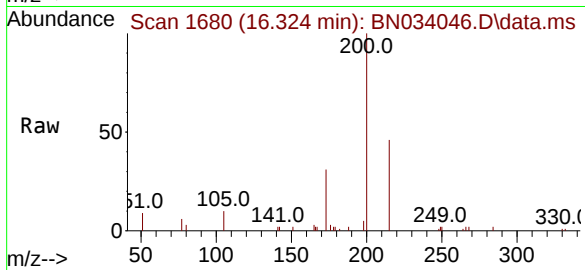




#23
Atrazine
Concen: 0.438 ng
RT: 16.324 min Scan# 1680
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

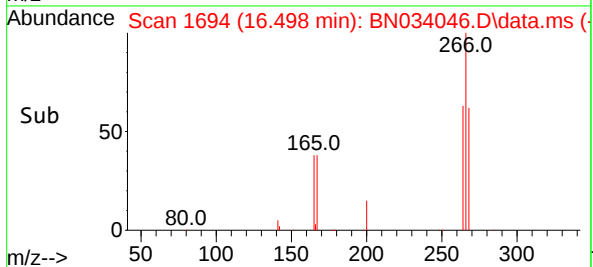
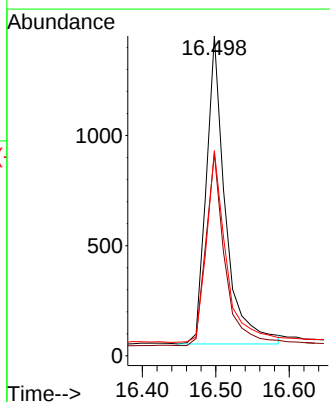
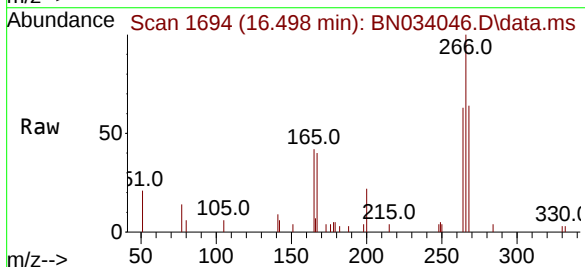
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

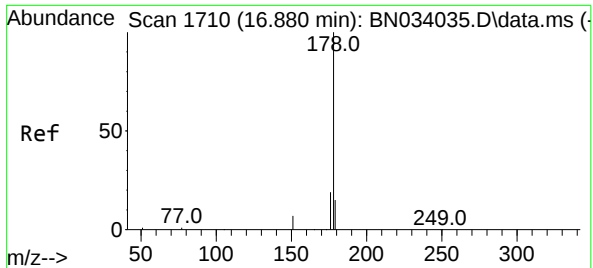
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.8	20.1	30.1#
215	46.0	37.0	55.6



#24
Pentachlorophenol
Concen: 0.456 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.2	75.2
268	63.9	51.0	76.4

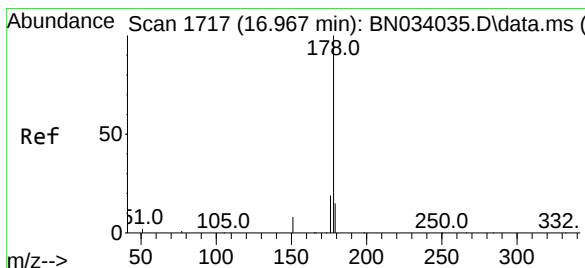
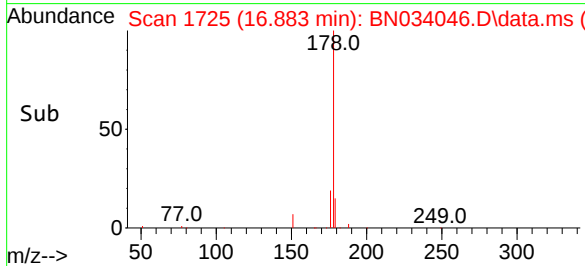
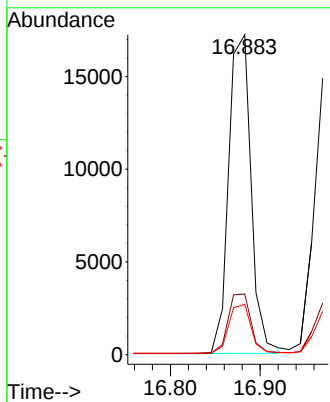
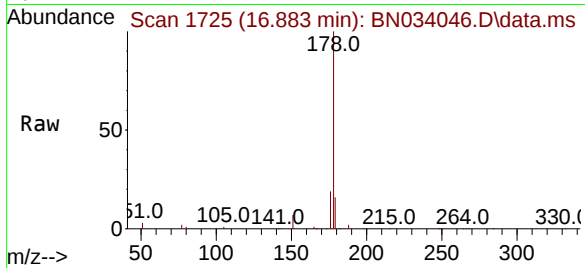




#25
Phenanthrene
Concen: 0.388 ng
RT: 16.883 min Scan# 1710
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

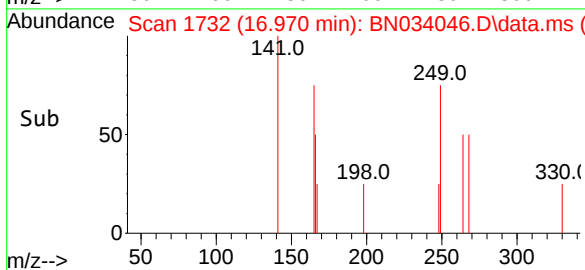
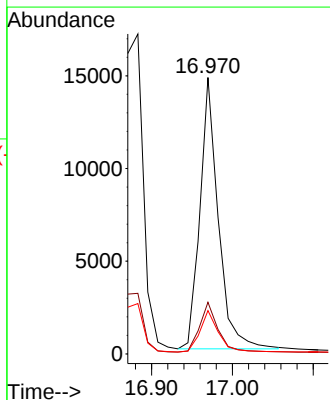
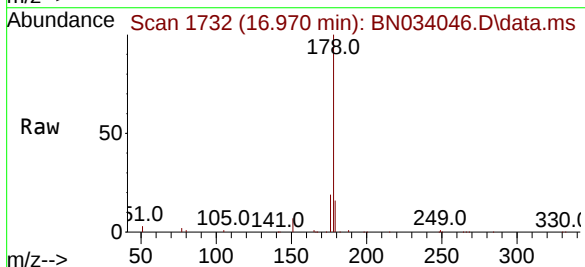
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

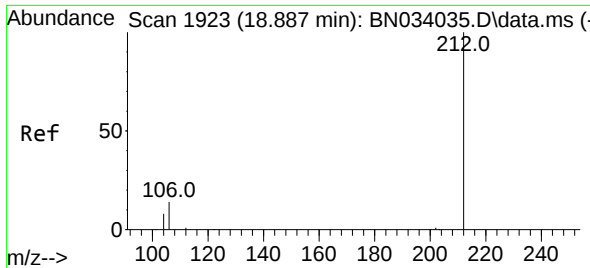
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1



#26
Anthracene
Concen: 0.370 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.3	12.2	18.4

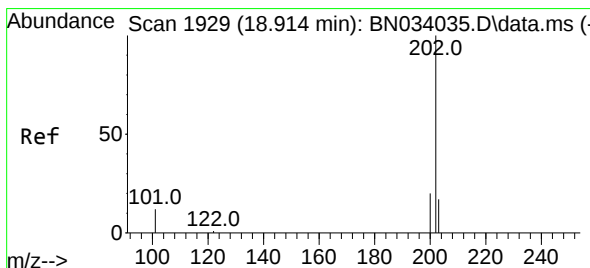
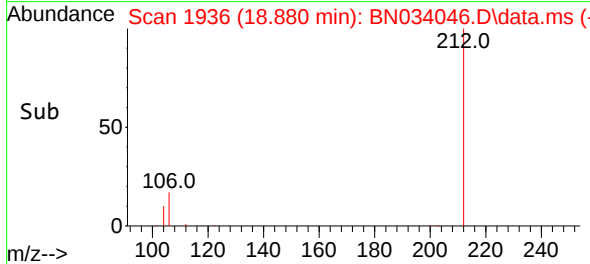
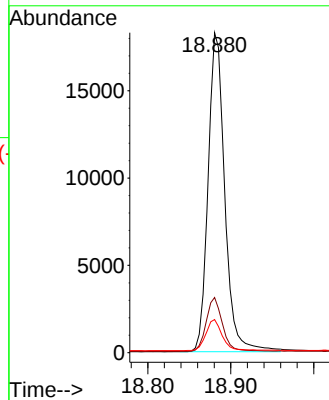
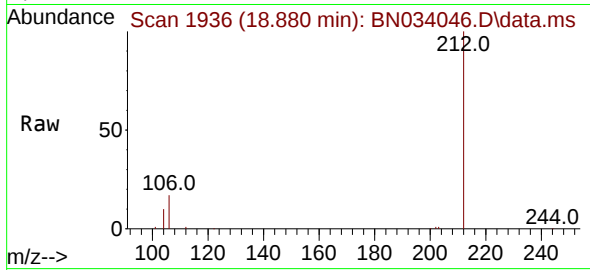




#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 18.880 min Scan# 1923
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

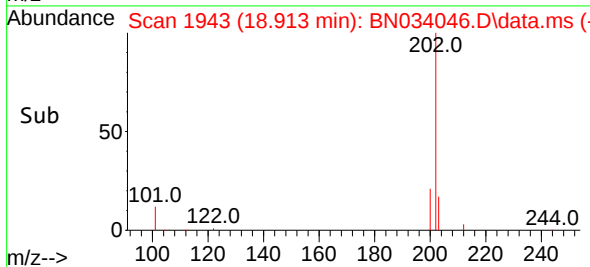
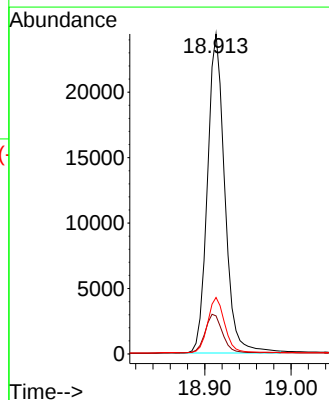
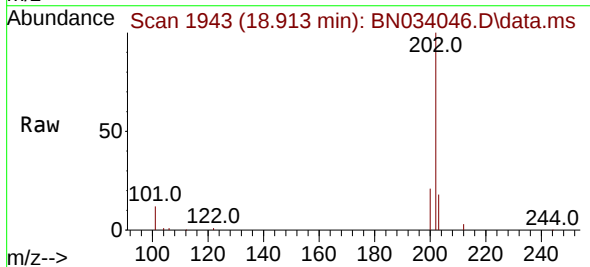
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

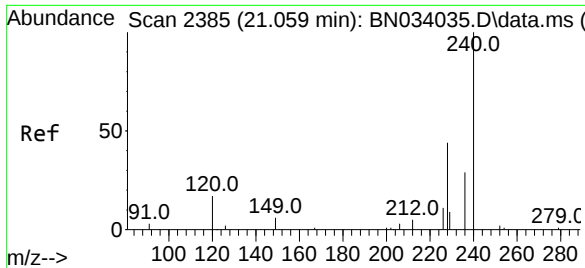
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.7	13.4	20.2
104	9.7	7.8	11.6



#28
Fluoranthene
Concen: 0.384 ng
RT: 18.913 min Scan# 1943
Delta R.T. -0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.1	15.1
203	17.3	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.062 min Scan# 2400

Delta R.T. 0.003 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

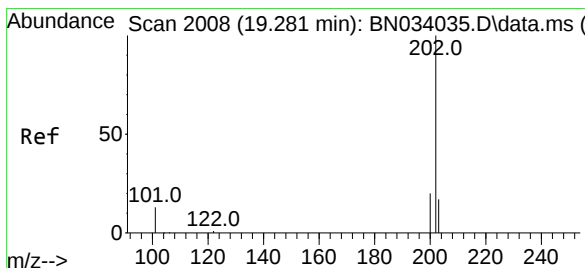
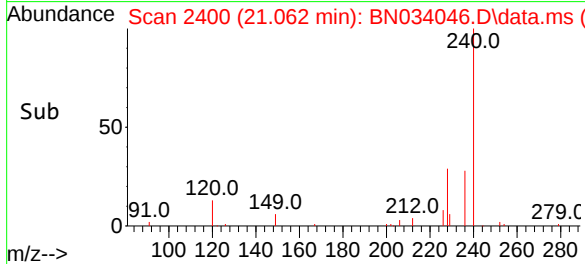
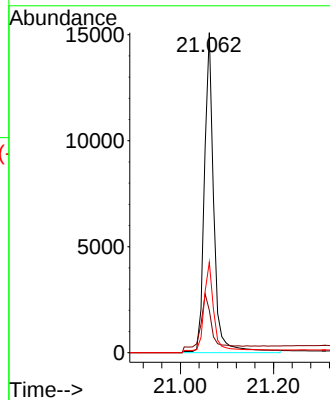
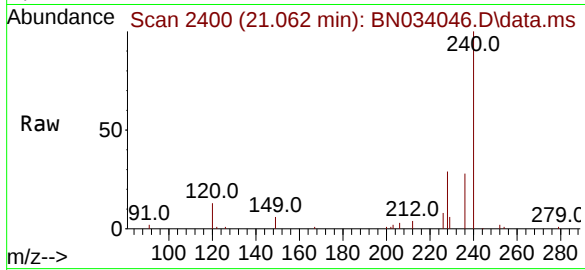
Tgt Ion:240 Resp: 20522

Ion Ratio Lower Upper

240 100

120 13.3 13.5 20.3#

236 28.3 23.4 35.0



#30

Pyrene

Concen: 0.411 ng

RT: 19.280 min Scan# 2022

Delta R.T. -0.001 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

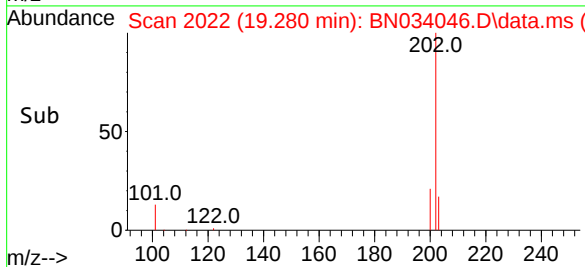
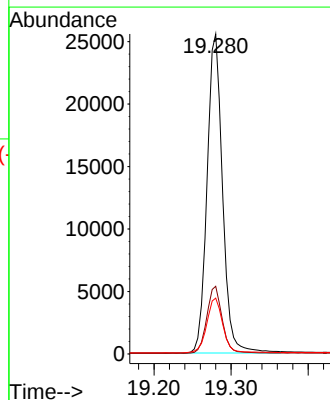
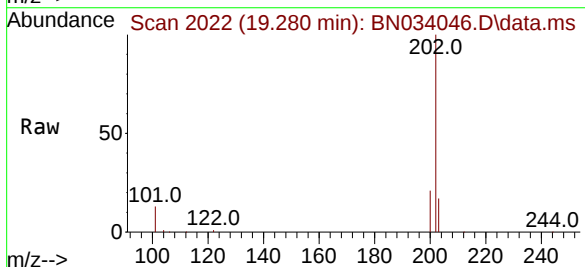
Tgt Ion:202 Resp: 35629

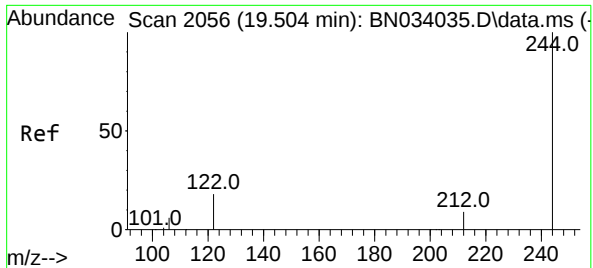
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.8 14.3 21.5

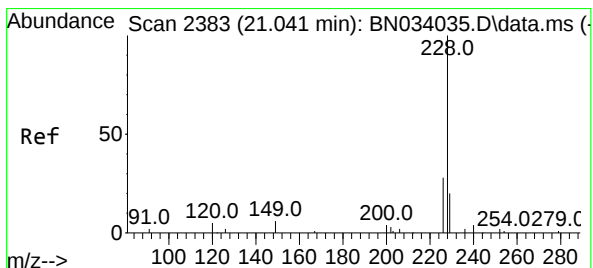
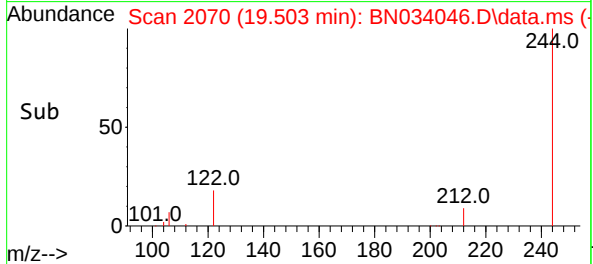
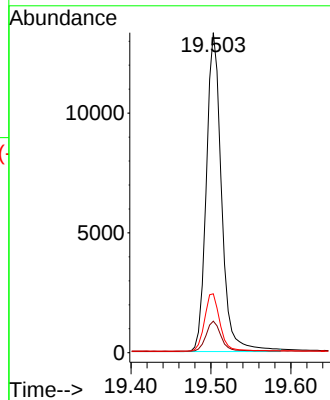
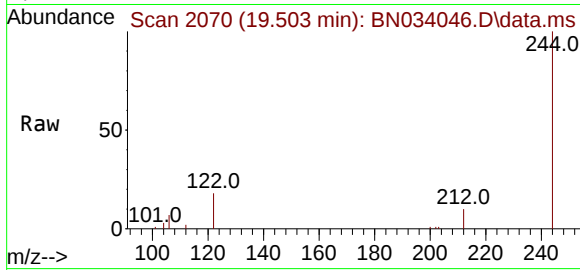




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.503 min Scan# 2056
Delta R.T. -0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

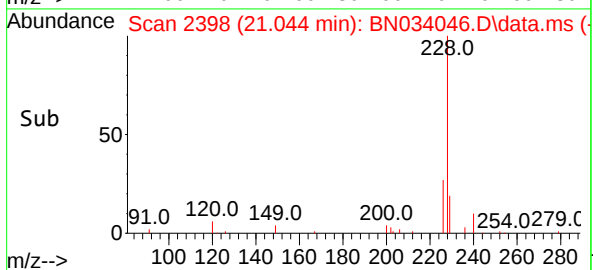
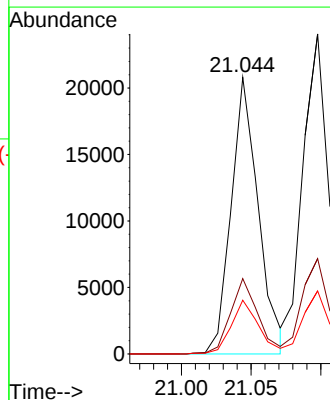
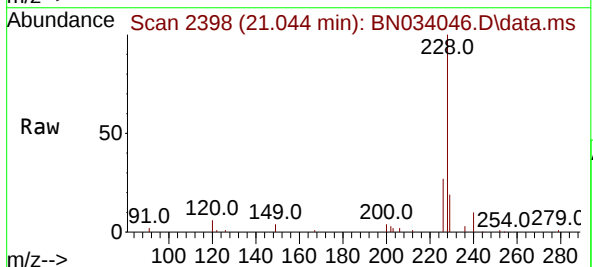
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

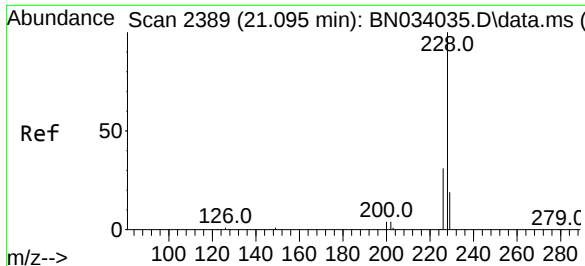
Tgt Ion:244 Resp: 17600
Ion Ratio Lower Upper
244 100
212 9.9 7.8 11.6
122 18.4 14.8 22.2



#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:228 Resp: 25219
Ion Ratio Lower Upper
228 100
226 27.3 22.3 33.5
229 19.5 15.7 23.5





#33

Chrysene

Concen: 0.409 ng

RT: 21.098 min Scan# 2404

Delta R.T. 0.003 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

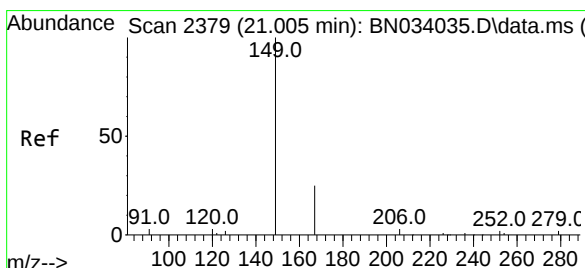
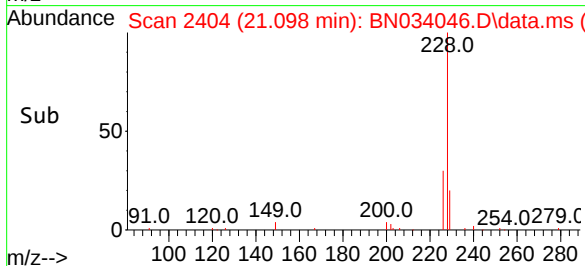
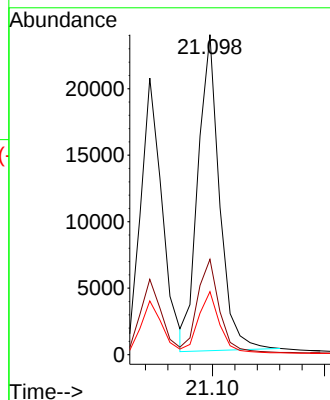
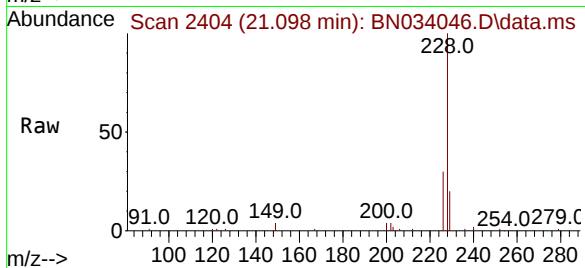
Tgt Ion:228 Resp: 31694

Ion Ratio Lower Upper

228 100

226 29.8 24.6 37.0

229 19.7 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.333 ng

RT: 21.008 min Scan# 2394

Delta R.T. 0.003 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

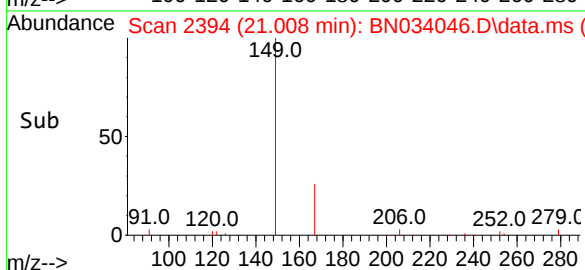
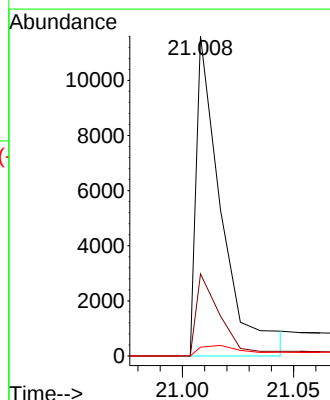
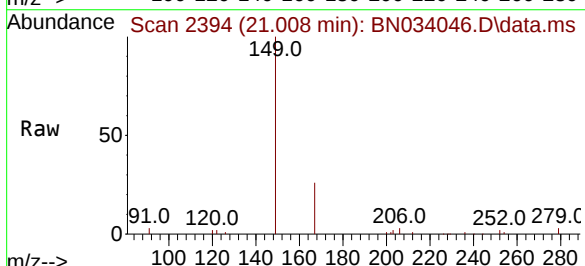
Tgt Ion:149 Resp: 8997

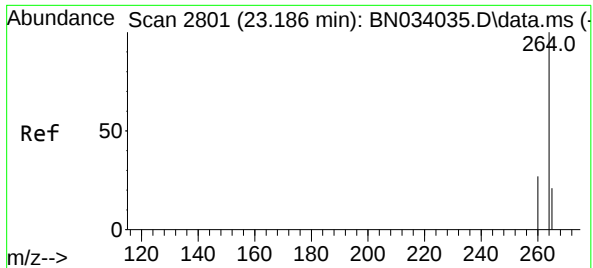
Ion Ratio Lower Upper

149 100

167 25.2 19.9 29.9

279 5.0 4.6 6.8

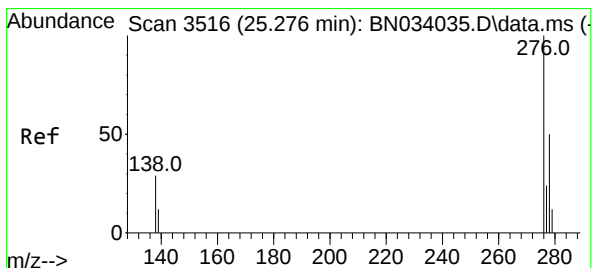
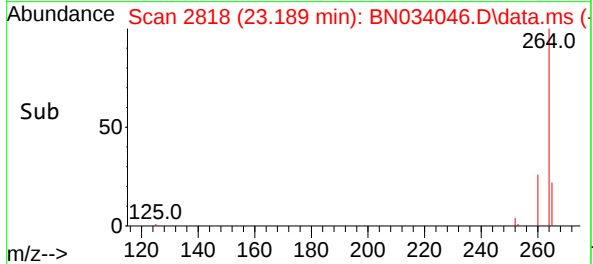
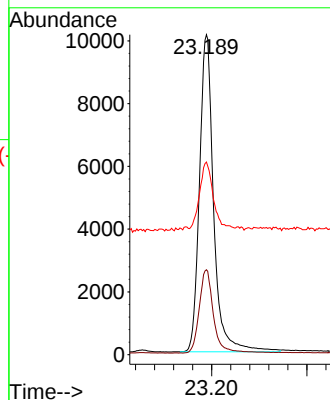
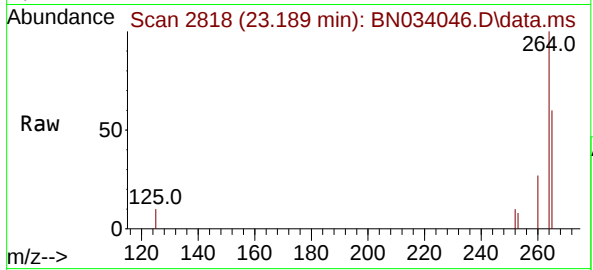




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

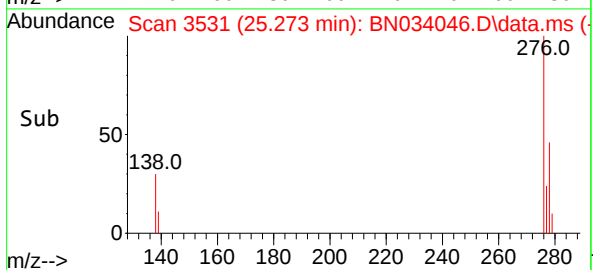
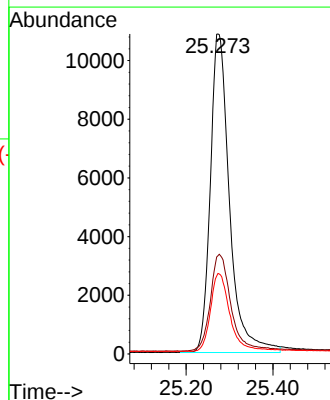
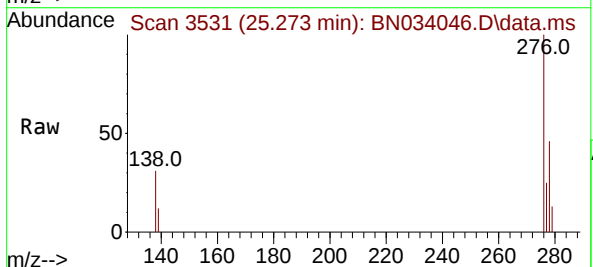
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

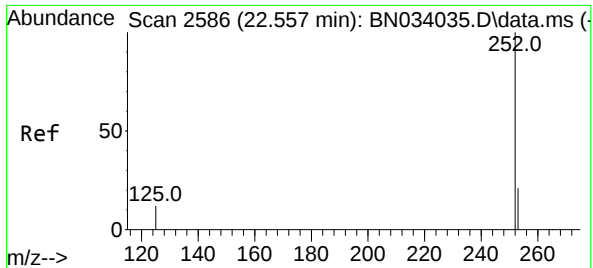
Tgt Ion:264 Resp: 20864
Ion Ratio Lower Upper
264 100
260 26.5 21.7 32.5
265 60.2 52.1 78.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.273 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:276 Resp: 33340
Ion Ratio Lower Upper
276 100
138 32.7 25.9 38.9
277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.381 ng

RT: 22.560 min Scan# 2603

Delta R.T. 0.003 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

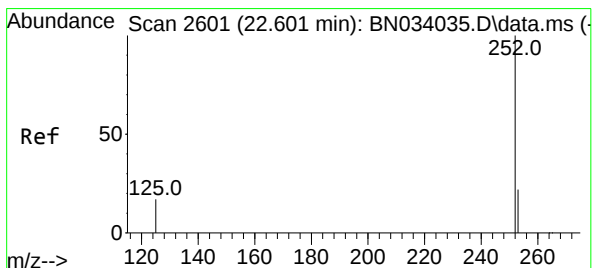
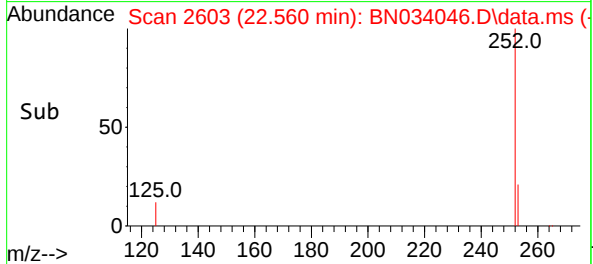
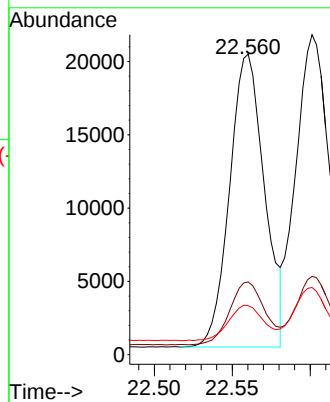
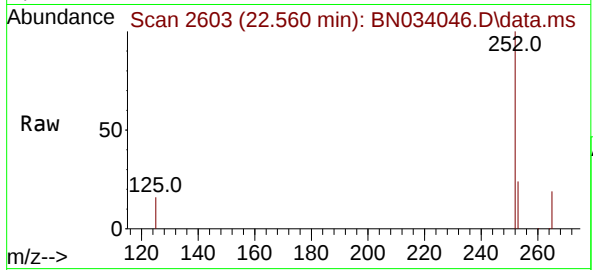
Tgt Ion:252 Resp: 31132

Ion Ratio Lower Upper

252 100

253 24.2 19.6 29.4

125 16.3 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.409 ng

RT: 22.601 min Scan# 2617

Delta R.T. 0.000 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

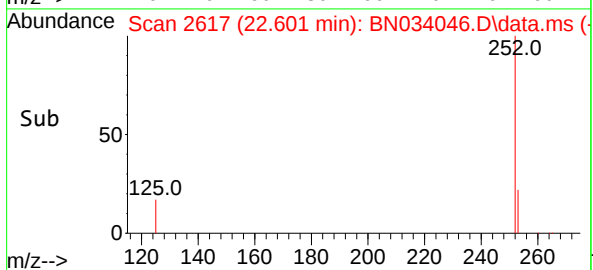
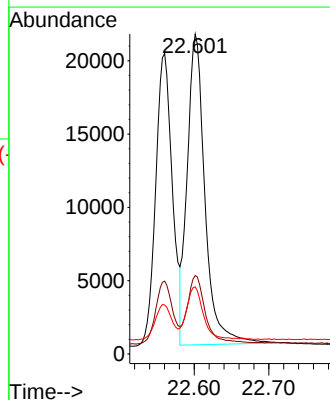
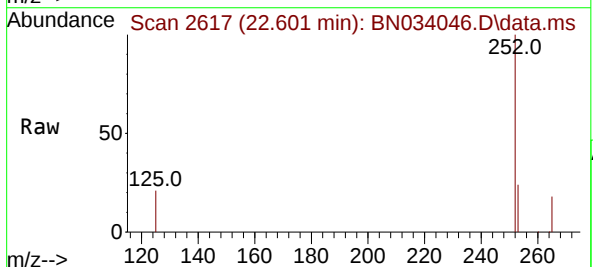
Tgt Ion:252 Resp: 35099

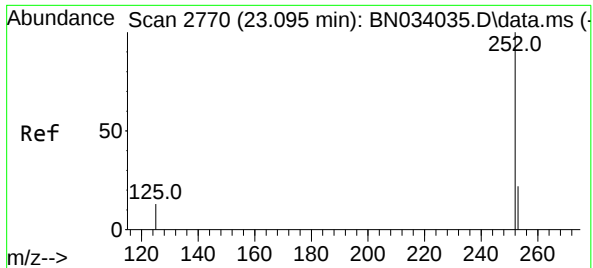
Ion Ratio Lower Upper

252 100

253 24.5 20.1 30.1

125 21.0 16.8 25.2





#39

Benzo(a)pyrene

Concen: 0.381 ng

RT: 23.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

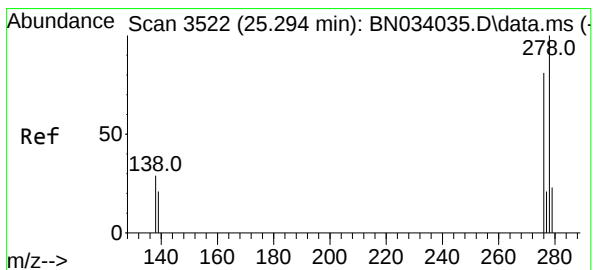
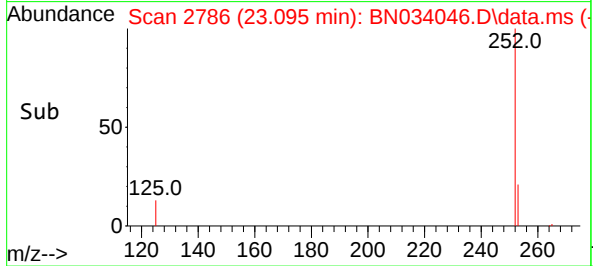
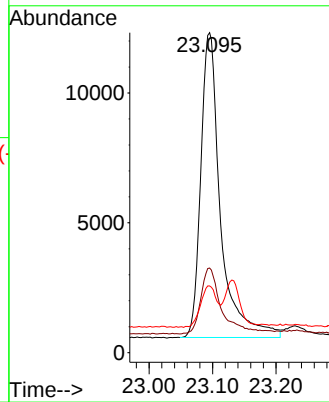
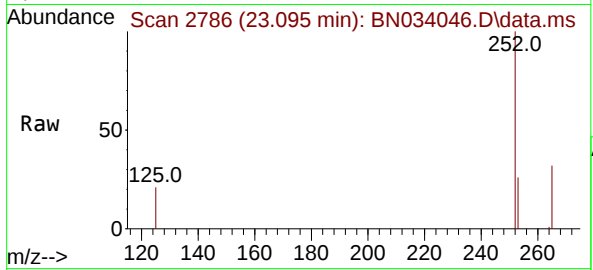
Tgt Ion:252 Resp: 25374

Ion Ratio Lower Upper

252 100

253 26.5 21.8 32.8

125 20.8 17.5 26.3



#40

Dibenzo(a,h)anthracene

Concen: 0.364 ng

RT: 25.291 min Scan# 3537

Delta R.T. -0.003 min

Lab File: BN034046.D

Acq: 19 Sep 2024 09:33

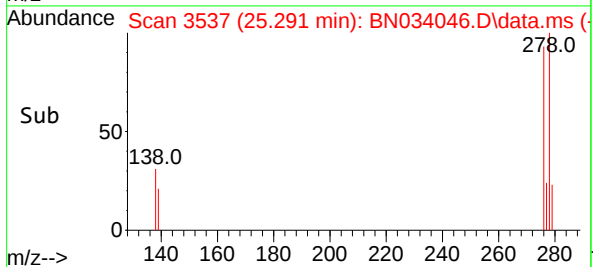
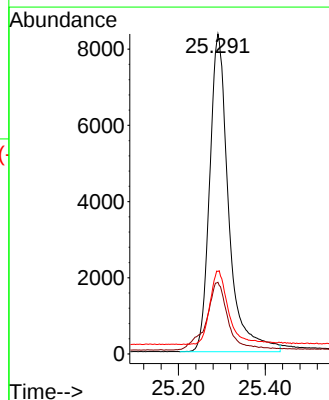
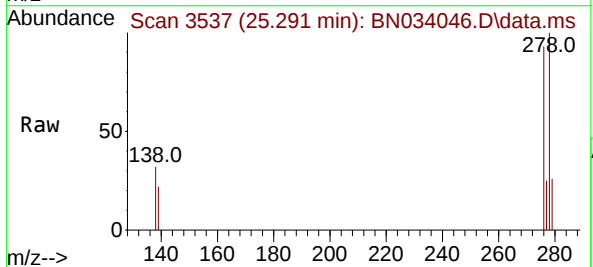
Tgt Ion:278 Resp: 25266

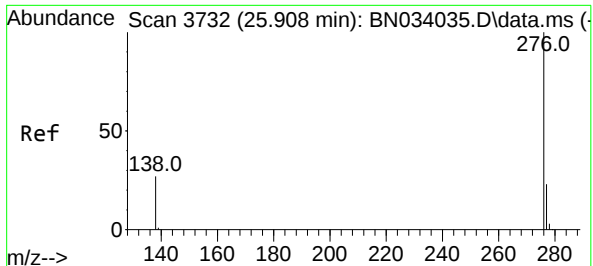
Ion Ratio Lower Upper

278 100

139 22.4 17.8 26.8

279 25.8 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.357 ng

RT: 25.905 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN034046.D

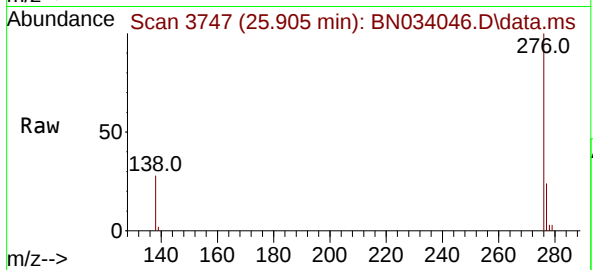
Acq: 19 Sep 2024 09:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



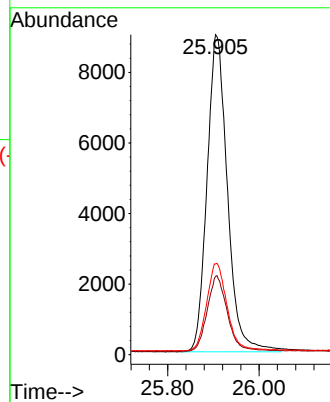
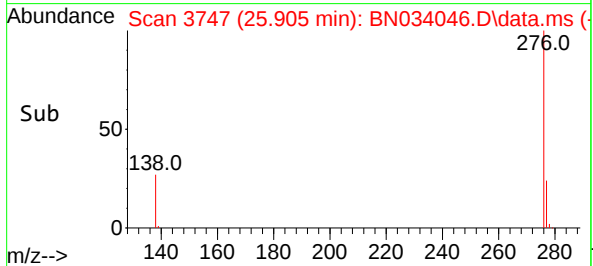
Tgt Ion:276 Resp: 27814

Ion Ratio Lower Upper

276 100

277 24.5 19.3 28.9

138 28.4 22.6 34.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 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	107	0.00
2	1,4-Dioxane	0.500	0.491	1.8	104	0.00
3	n-Nitrosodimethylamine	0.569	0.555	2.5	108	0.00
4 S	2-Fluorophenol	1.135	1.226	-8.0	122	0.00
5 S	Phenol-d6	1.320	1.358	-2.9	122	0.00
6	bis(2-Chloroethyl)ether	1.168	1.114	4.6	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8 S	Nitrobenzene-d5	0.306	0.275	10.1	109	0.00
9	Naphthalene	1.098	1.060	3.5	111	0.00
10	Hexachlorobutadiene	0.207	0.204	1.4	111	0.00
11 SURR	2-Methylnaphthalene-d10	0.591	0.561	5.1	111	0.00
12	2-Methylnaphthalene	0.714	0.673	5.7	110	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.181	0.186	-2.8	130	0.00
15 S	2-Fluorobiphenyl	1.627	1.623	0.2	112	0.00
16	Acenaphthylene	1.712	1.603	6.4	113	0.00
17	Acenaphthene	1.228	1.206	1.8	111	0.00
18	Fluorene	1.612	1.576	2.2	112	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.046	19.3	109	0.00
21	4-Bromophenyl-phenylether	0.225	0.215	4.4	111	0.00
22	Hexachlorobenzene	0.252	0.252	0.0	112	0.00
23	Atrazine	0.186	0.204	-9.7	132	0.00
24	Pentachlorophenol	0.083	0.095	-14.5	150	0.00
25	Phenanthrene	1.149	1.114	3.0	111	0.00
26	Anthracene	0.937	0.868	7.4	113	0.00
27 SURR	Fluoranthene-d10	1.009	0.960	4.9	111	0.00
28	Fluoranthene	1.331	1.276	4.1	112	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30	Pyrene	1.688	1.736	-2.8	114	0.00
31 S	Terphenyl-d14	0.799	0.858	-7.4	120	0.00
32	Benzo(a)anthracene	1.265	1.229	2.8	116	0.00
33	Chrysene	1.510	1.544	-2.3	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.527	0.438	16.9	89	0.00
35 I	Perylene-d12	1.000	1.000	0.0	107	0.00
36	Indeno(1,2,3-cd)pyrene	1.714	1.598	6.8	97	0.00
37	Benzo(b)fluoranthene	1.567	1.492	4.8	110	0.00
38	Benzo(k)fluoranthene	1.645	1.682	-2.2	111	0.00
39 C	Benzo(a)pyrene	1.277	1.216	4.8	109	0.00
40	Dibenzo(a,h)anthracene	1.331	1.211	9.0	96	0.00
41	Benzo(g,h,i)perylene	1.495	1.333	10.8	95	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 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	107	0.00
2	1,4-Dioxane	0.400	0.393	1.8	104	0.00
3	n-Nitrosodimethylamine	0.400	0.390	2.5	108	0.00
4 S	2-Fluorophenol	0.400	0.432	-8.0	122	0.00
5 S	Phenol-d6	0.400	0.411	-2.7	122	0.00
6	bis(2-Chloroethyl)ether	0.400	0.381	4.8	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	109	0.00
9	Naphthalene	0.400	0.386	3.5	111	0.00
10	Hexachlorobutadiene	0.400	0.394	1.5	111	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	111	0.00
12	2-Methylnaphthalene	0.400	0.377	5.8	110	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14 S	2,4,6-Tribromophenol	0.400	0.410	-2.5	130	0.00
15 S	2-Fluorobiphenyl	0.400	0.399	0.3	112	0.00
16	Acenaphthylene	0.400	0.375	6.3	113	0.00
17	Acenaphthene	0.400	0.393	1.8	111	0.00
18	Fluorene	0.400	0.391	2.3	112	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	110	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.385	3.8	109	0.00
21	4-Bromophenyl-phenylether	0.400	0.382	4.5	111	0.00
22	Hexachlorobenzene	0.400	0.399	0.3	112	0.00
23	Atrazine	0.400	0.438	-9.5	132	0.00
24	Pentachlorophenol	0.400	0.456	-14.0	150	0.00
25	Phenanthrene	0.400	0.388	3.0	111	0.00
26	Anthracene	0.400	0.370	7.5	113	0.00
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	111	0.00
28	Fluoranthene	0.400	0.384	4.0	112	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30	Pyrene	0.400	0.411	-2.7	114	0.00
31 S	Terphenyl-d14	0.400	0.429	-7.2	120	0.00
32	Benzo(a)anthracene	0.400	0.388	3.0	116	0.00
33	Chrysene	0.400	0.409	-2.2	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.333	16.8	89	0.00
35 I	Perylene-d12	0.400	0.400	0.0	107	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.373	6.8	97	0.00
37	Benzo(b)fluoranthene	0.400	0.381	4.8	110	0.00
38	Benzo(k)fluoranthene	0.400	0.409	-2.2	111	0.00
39 C	Benzo(a)pyrene	0.400	0.381	4.8	109	0.00
40	Dibenzo(a,h)anthracene	0.400	0.364	9.0	96	0.00
41	Benzo(g,h,i)perylene	0.400	0.357	10.8	95	0.00

(#) = Out of Range

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



QC SAMPLE DATA

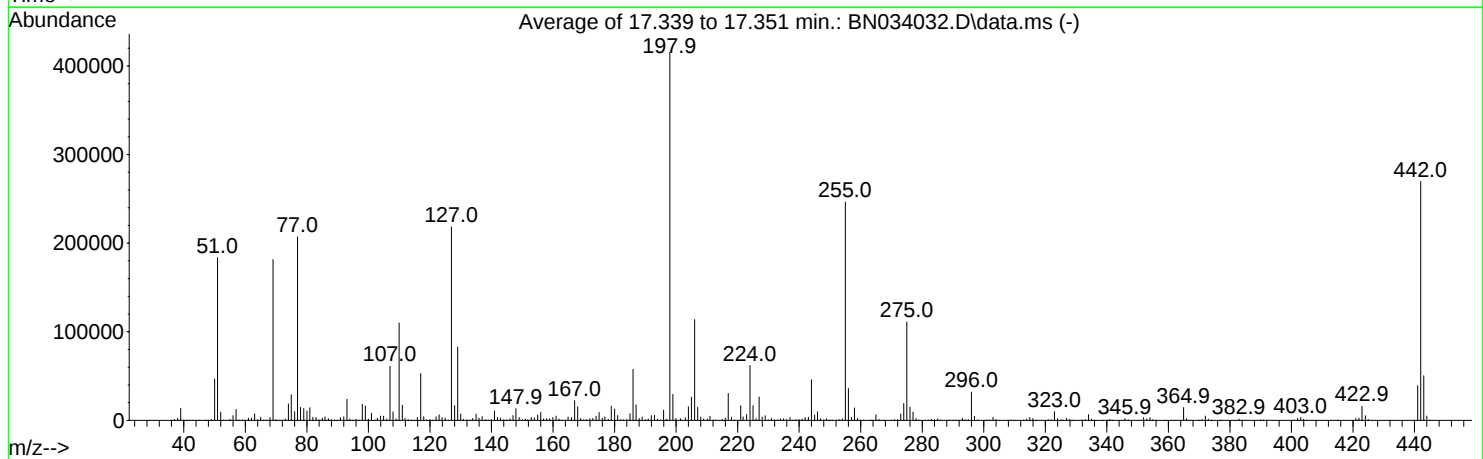
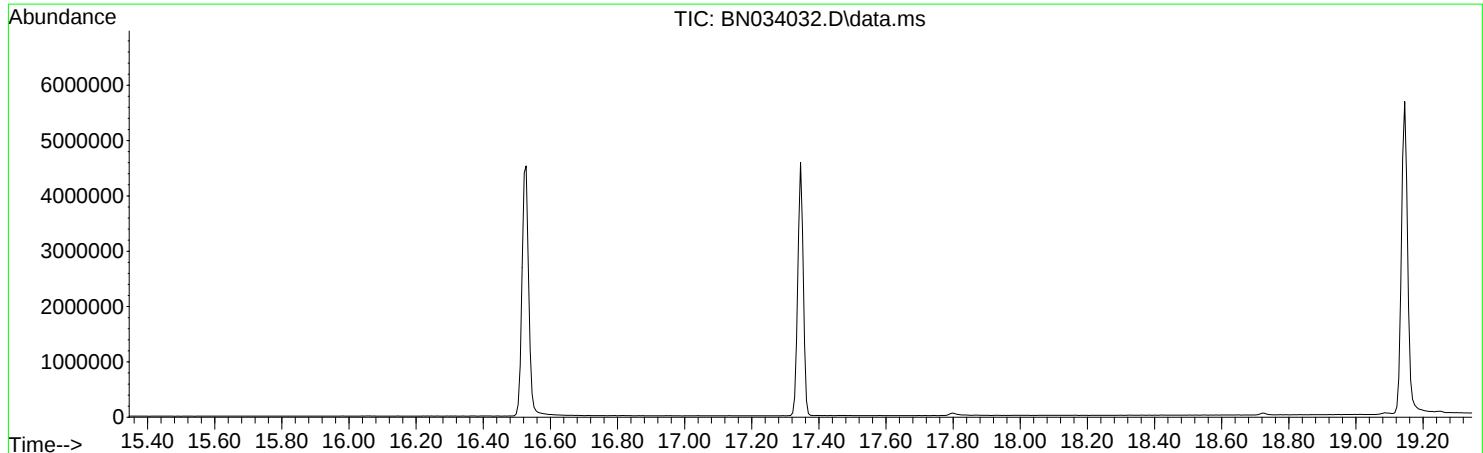
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
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-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024



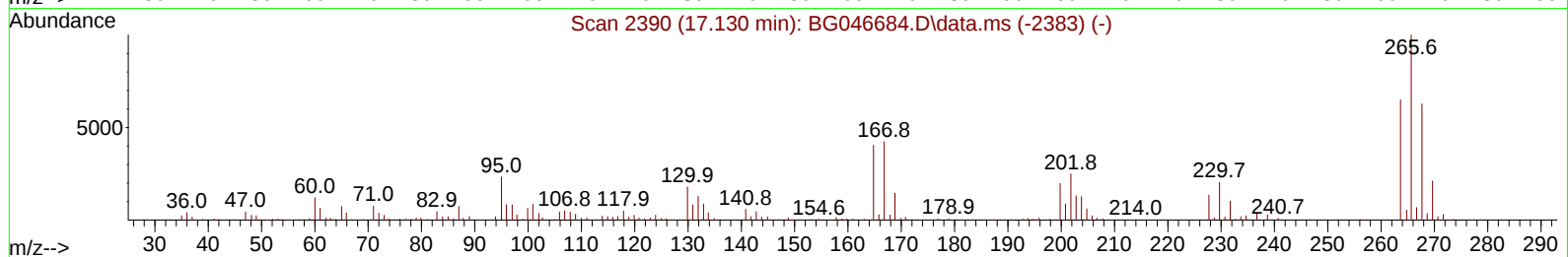
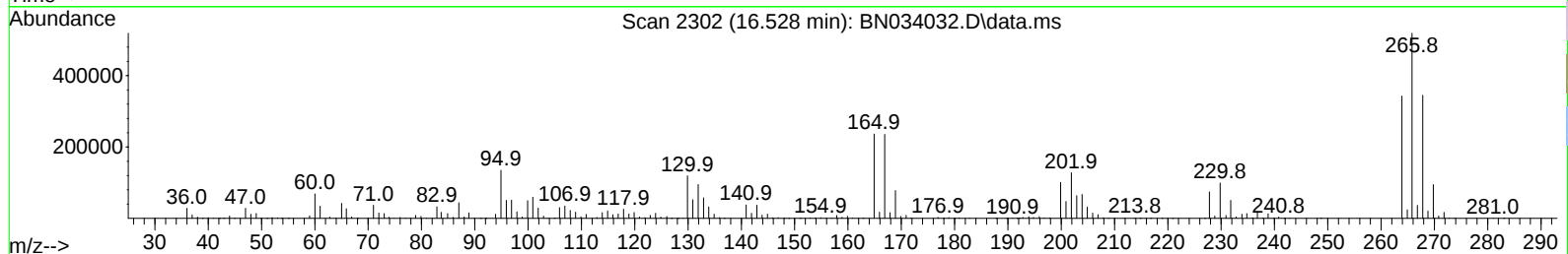
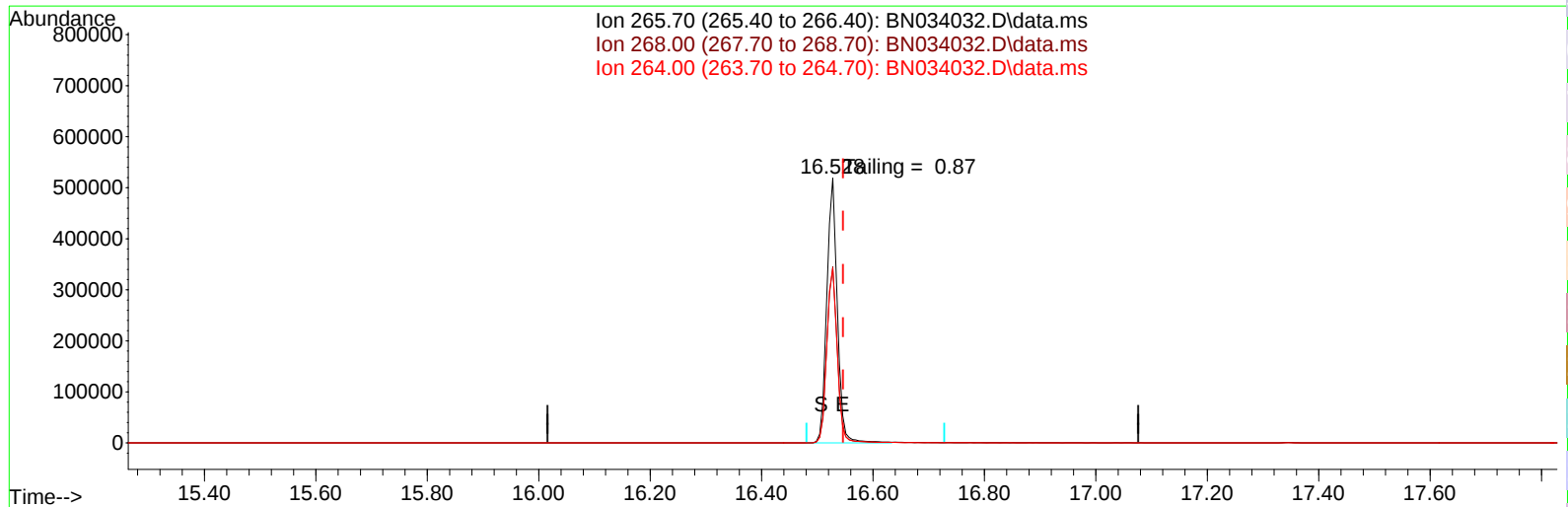
AutoFind: Scans 2440, 2441, 2442; Background Corrected with Scan 2433

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.2	183645	PASS
68	69	0.00	2	1.7	3129	PASS
69	198	0.00	100	43.7	181547	PASS
70	69	0.00	2	0.5	929	PASS
127	198	10	80	52.6	218219	PASS
197	198	0.00	2	0.3	1234	PASS
198	198	100	100	100.0	415168	PASS
199	198	5	9	7.0	29256	PASS
275	198	10	60	26.8	111072	PASS
365	198	1	100	3.5	14476	PASS
441	198	0.01	100	9.4	39211	PASS
442	442	50	100	100.0	269675	PASS
443	442	15	24	18.7	50309	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 17:07:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 04:22:28 2024
Response via : Initial Calibration



TIC: BN034032.D\data.ms

(70) Pentachlorophenol (C)

16.528min (-0.018) 32535.82 ng

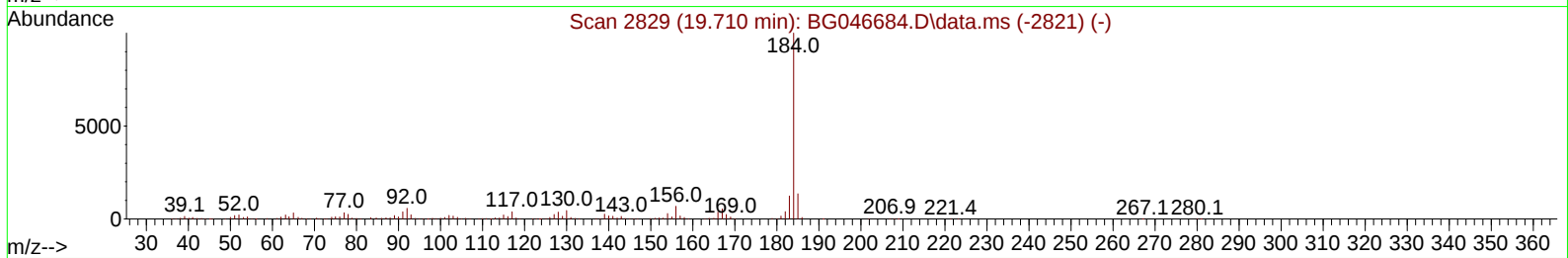
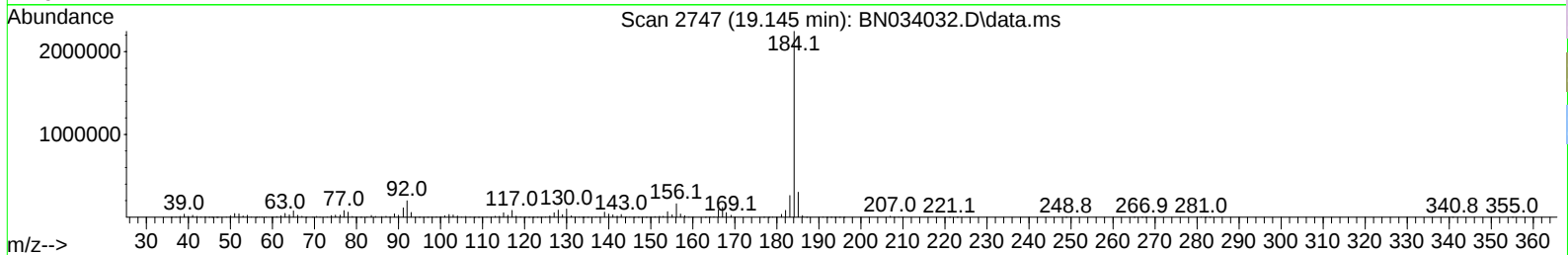
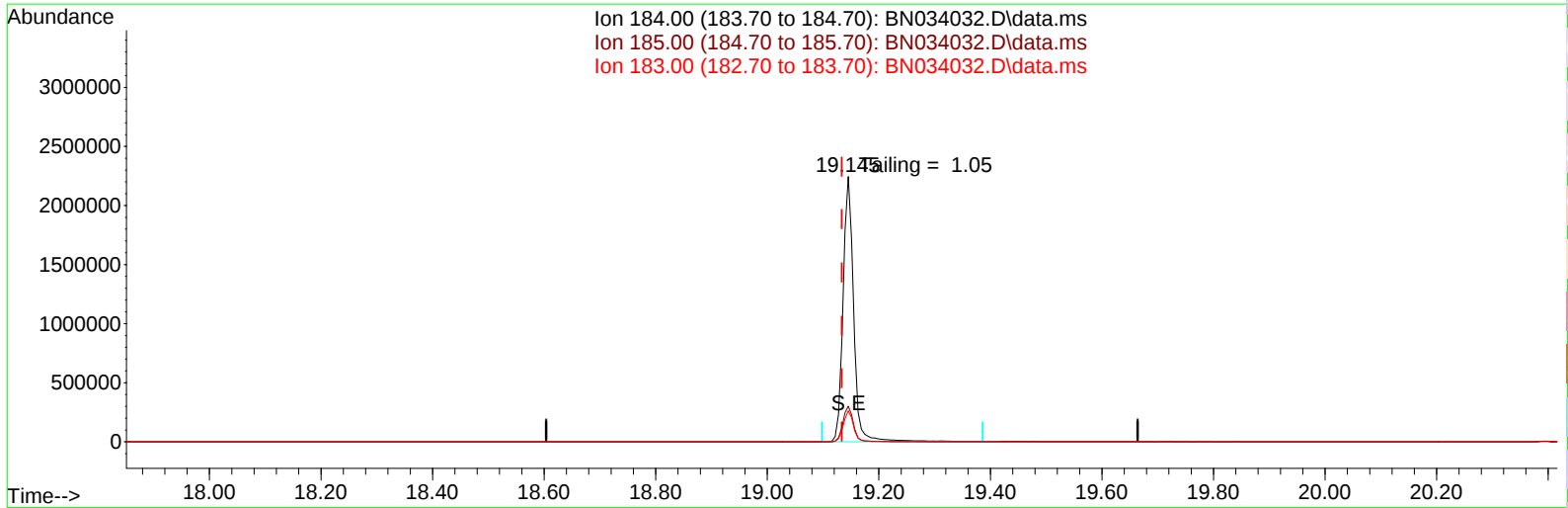
response 682505

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.46
264.00	61.60	66.06
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 17:07:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 04:22:28 2024
Response via : Initial Calibration



TIC: BN034032.D\data.ms

(77) Benzidine

19.145min (+ 0.011) 0.00 ng

response 3004968

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.44
183.00	13.20	11.67
0.00	0.00	0.00

DDT Breakdown

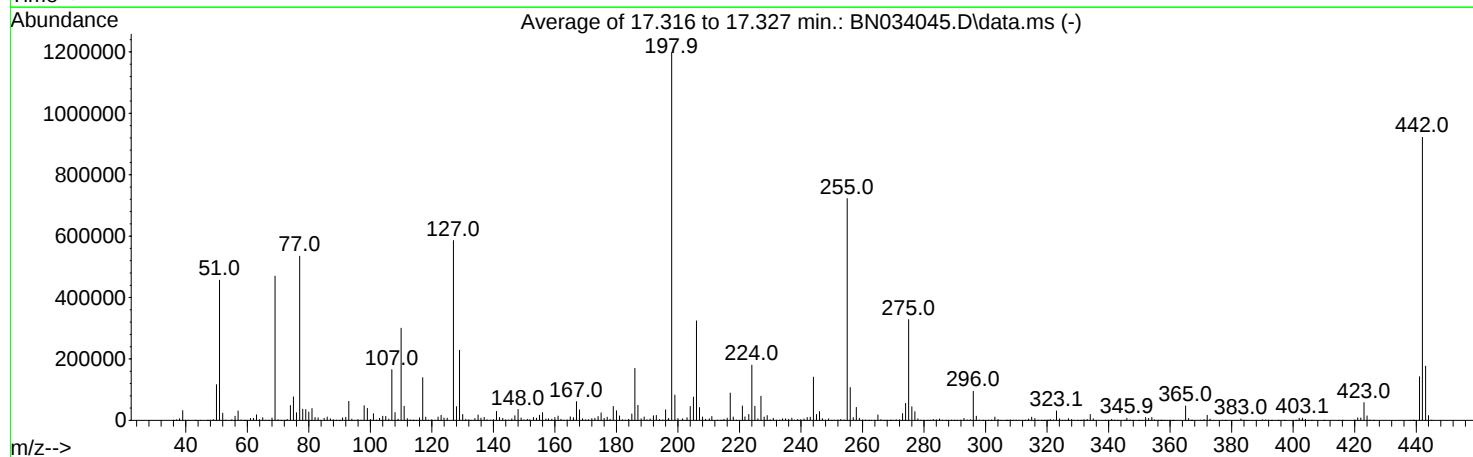
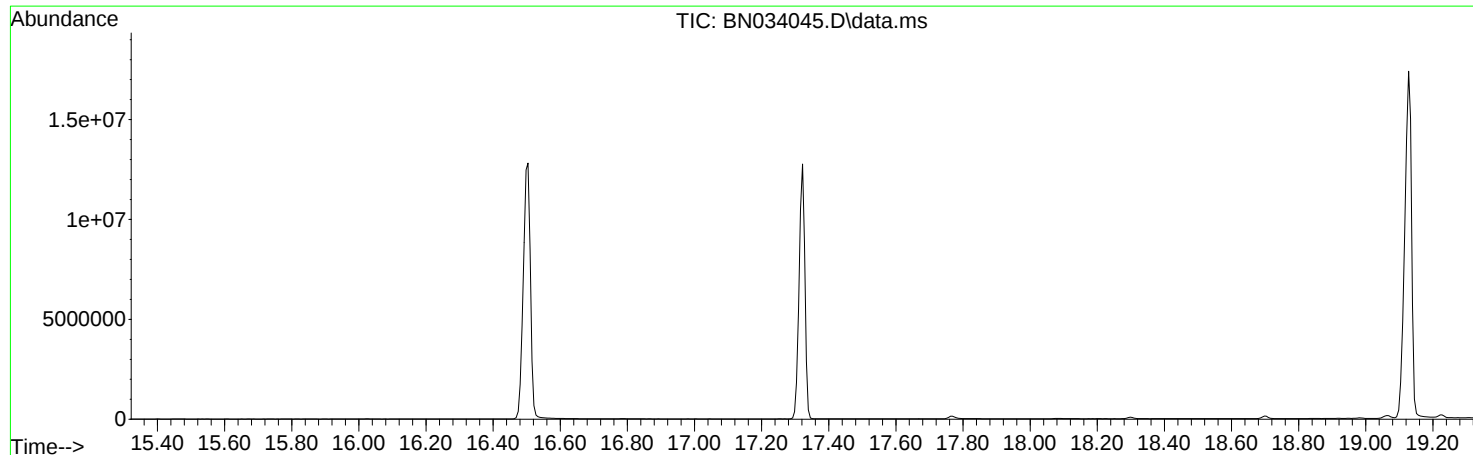
Date	Instrument Name	DFTPP Data File
9/19/2024	BNA_N	<u>BN034032.D</u>
Compound Name	Response	Retention Time
DDT	1434298	20.392
DDD	33424	19.951
DDE	2229	19.439
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
35653	1469951	2.43

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
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-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024



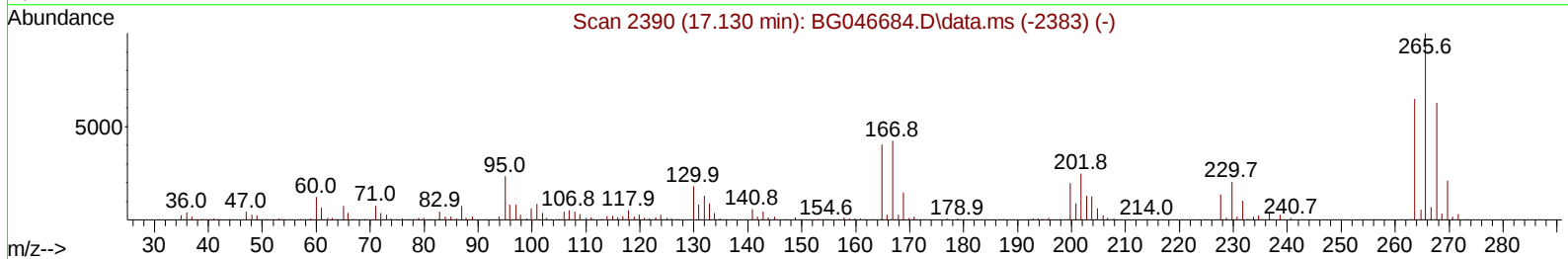
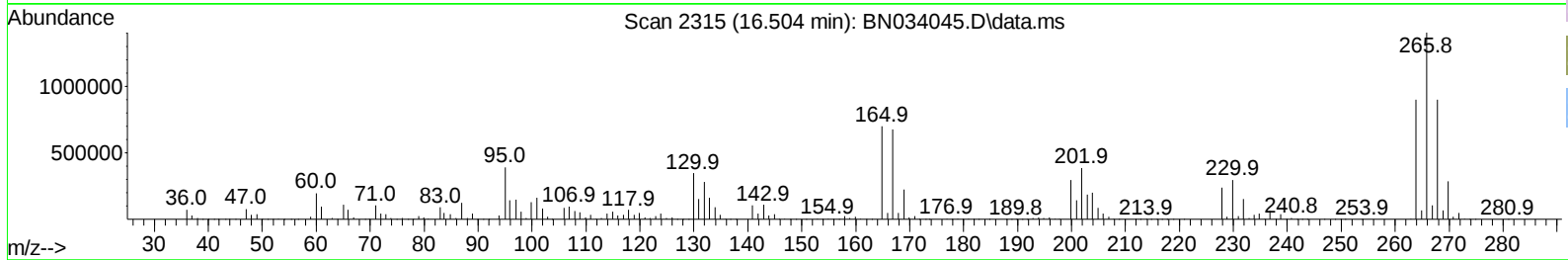
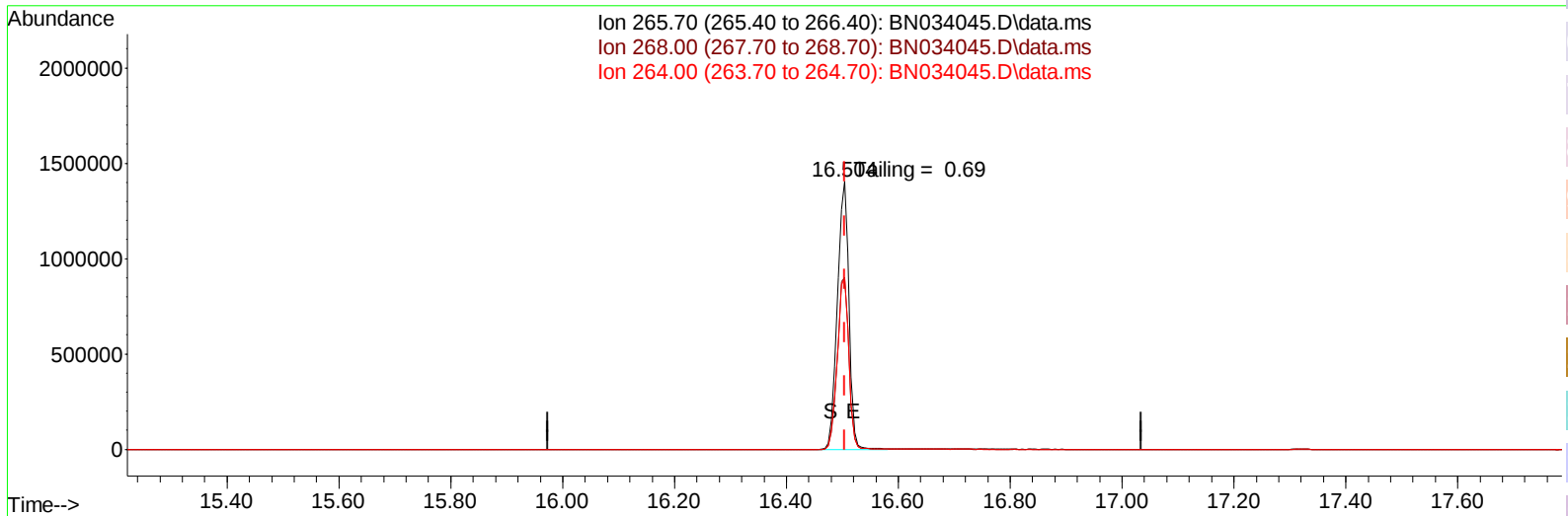
AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2445

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.1	456356	PASS
68	69	0.00	2	1.6	7706	PASS
69	198	0.00	100	39.2	470107	PASS
70	69	0.00	2	0.5	2262	PASS
127	198	10	80	48.9	585600	PASS
197	198	0.00	2	0.5	6379	PASS
198	198	100	100	100.0	1198187	PASS
199	198	5	9	6.9	82589	PASS
275	198	10	60	27.4	328149	PASS
365	198	1	100	3.9	46936	PASS
441	198	0.01	100	11.9	142091	PASS
442	442	50	100	100.0	921941	PASS
443	442	15	24	19.2	176675	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 04:53:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 20 04:53:44 2024
Response via : Initial Calibration



TIC: BN034045.D\data.ms

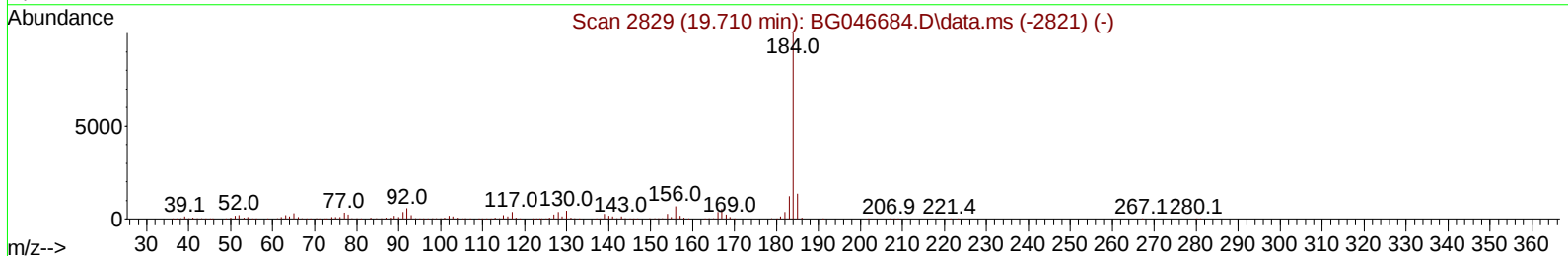
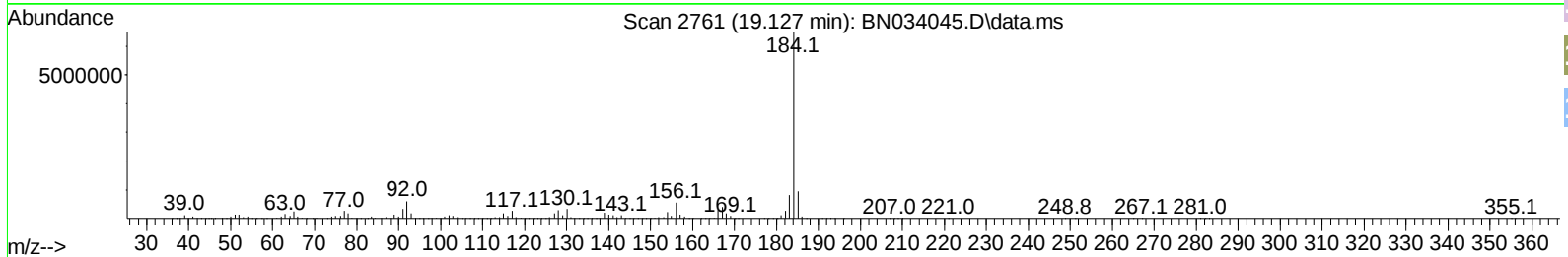
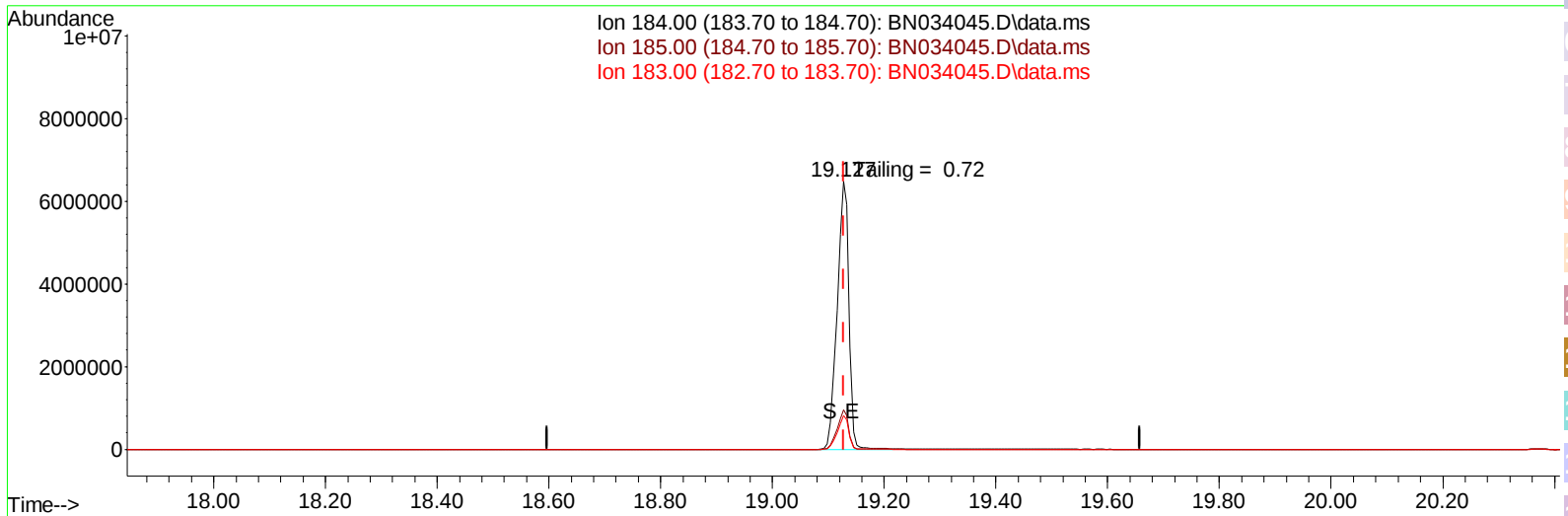
(70) Pentachlorophenol (C)**16.504min (0.000) 33339.48 ng****response 2034773**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.08
264.00	61.60	63.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 04:53:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 20 04:53:44 2024
Response via : Initial Calibration



TIC: BN034045.D\data.ms

(77) Benzidine

19.127min (0.000) 0.00 ng

response 9558562

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.69
183.00	13.20	12.59
0.00	0.00	0.00

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2024	BNA_N	<u>BN034045.D</u>
Compound Name	Response	Retention Time
DDT	4367080	20.374
DDD	37662	19.974
DDE	195	19.416
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
37857	4404937	0.86

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BL	SDG No.:	P3845
Lab Sample ID:	PB163341BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034047.D	1	09/12/24 12:00	09/19/24 10:09	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.030	U	0.030	0.20	ug/L
87-68-3	Hexachlorobutadiene	0.030	U	0.030	0.10	ug/L
118-74-1	Hexachlorobenzene	0.030	U	0.030	0.10	ug/L
1912-24-9	Atrazine	0.020	U	0.020	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		20 - 139	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150	92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		27 - 123	75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		34 - 132	86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		35 - 157	109%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7710		7.438		
1146-65-2	Naphthalene-d8	19800		10.201		
15067-26-2	Acenaphthene-d10	10200		14.083		
1517-22-2	Phenanthrene-d10	21700		16.845		
1719-03-5	Chrysene-d12	14000		21.062		
1520-96-3	Perylene-d12	11700		23.189		

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\BN091924\
Data File : BN034047.D
Acq On : 19 Sep 2024 10:09
Operator : JU/RC
Sample : PB163341BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Quant Time: Sep 19 10:59:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7708	0.400	ng	0.00
7) Naphthalene-d8	10.201	136	19759	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	10160	0.400	ng	0.00
19) Phenanthrene-d10	16.845	188	21734	0.400	ng	0.00
29) Chrysene-d12	21.062	240	14035	0.400	ng	0.00
35) Perylene-d12	23.189	264	11710	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	7300	0.334	ng	0.00
5) Phenol-d6	6.636	99	6660	0.262	ng	0.00
8) Nitrobenzene-d5	8.578	82	4571	0.302	ng	0.00
11) 2-Methylnaphthalene-d10	11.803	152	9277	0.318	ng	0.00
14) 2,4,6-Tribromophenol	15.604	330	557	0.121	ng	0.02
15) 2-Fluorobiphenyl	12.704	172	14291	0.346	ng	0.00
27) Fluoranthene-d10	18.885	212	20171	0.368	ng	0.00
31) Terphenyl-d14	19.503	244	12204	0.435	ng	0.00

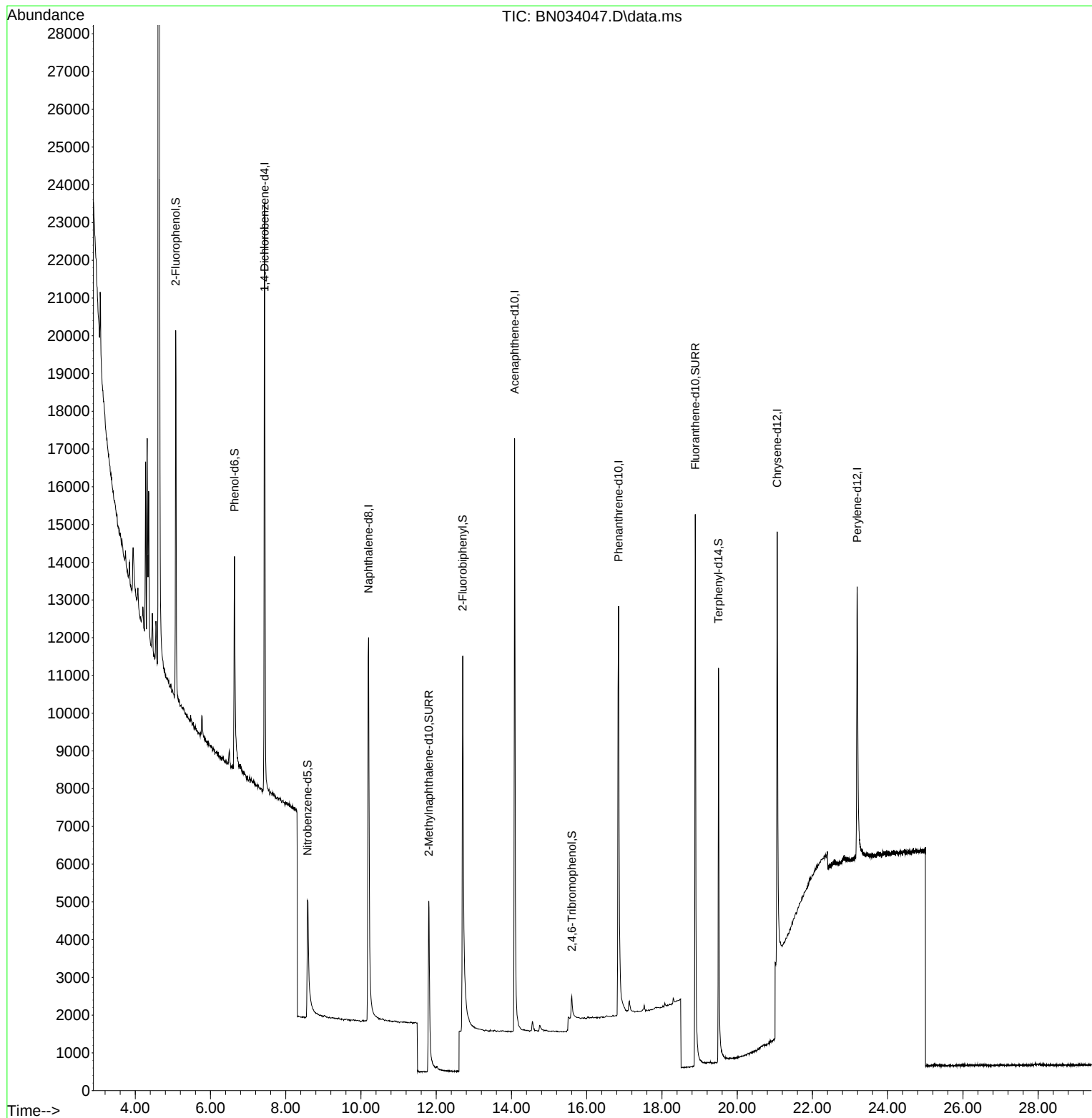
Target Compounds	Qvalue
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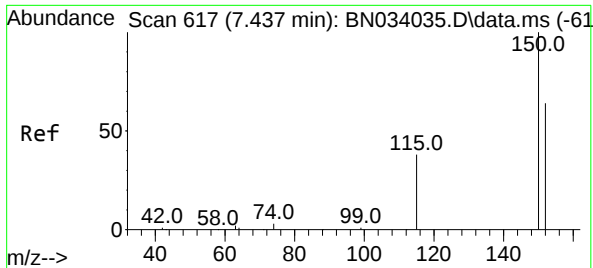
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034047.D
Acq On : 19 Sep 2024 10:09
Operator : JU/RC
Sample : PB163341BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Quant Time: Sep 19 10:59:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

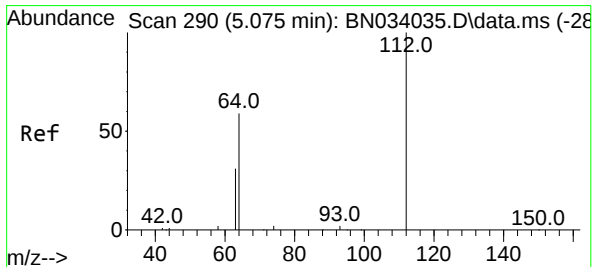
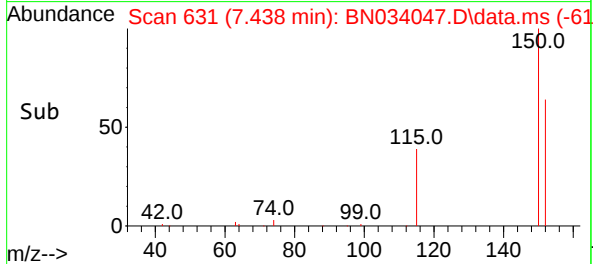
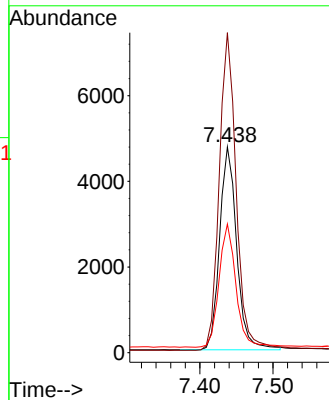
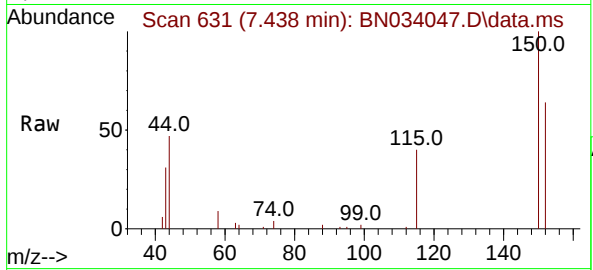




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

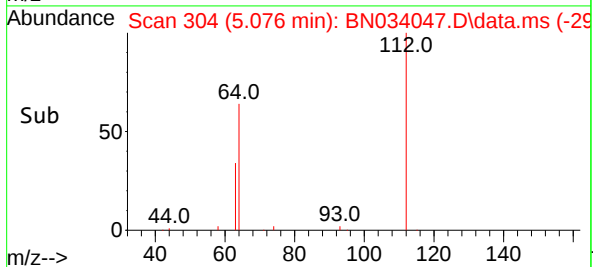
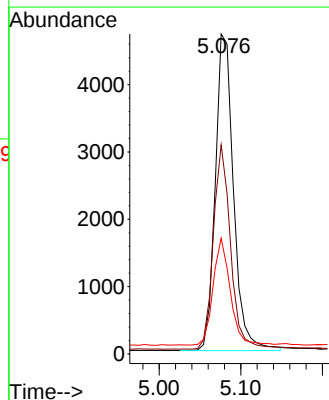
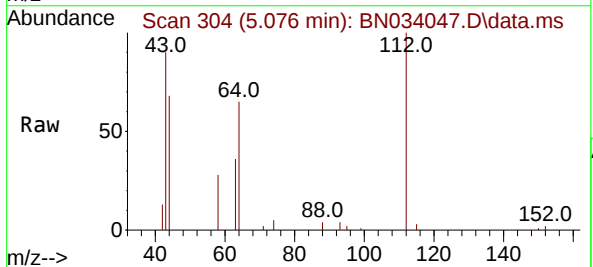
Instrument :
BNA_N
ClientSampleId :
PB163341BL

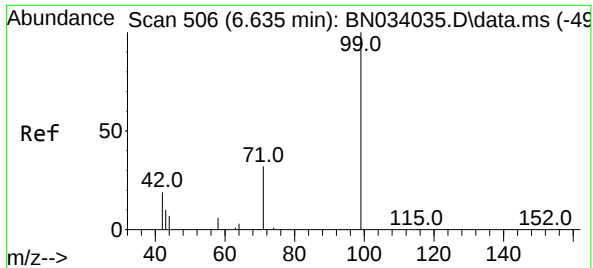
Tgt Ion:152 Resp: 7708
Ion Ratio Lower Upper
152 100
150 155.6 124.6 187.0
115 62.5 50.0 75.0



#4
2-Fluorophenol
Concen: 0.334 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:112 Resp: 7300
Ion Ratio Lower Upper
112 100
64 60.6 48.6 72.8
63 31.5 25.6 38.4

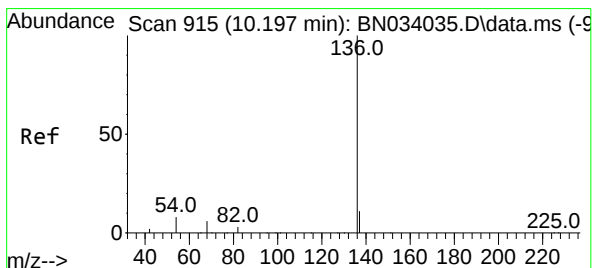
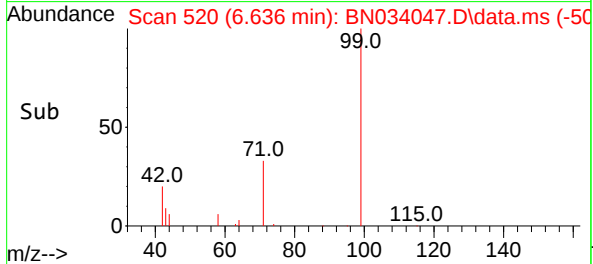
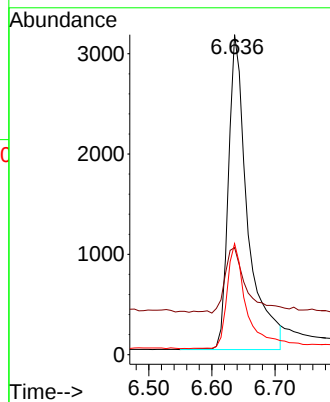
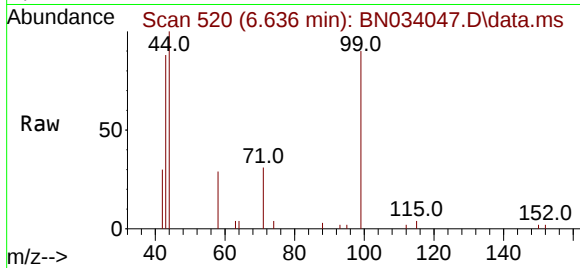




#5
Phenol-d6
Concen: 0.262 ng
RT: 6.636 min Scan# 51
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

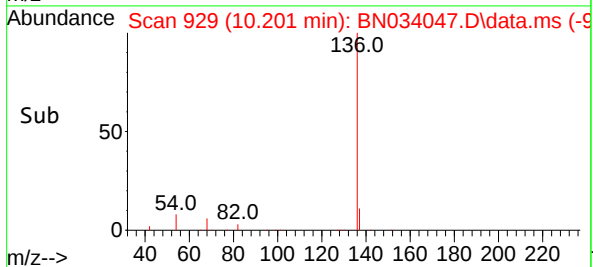
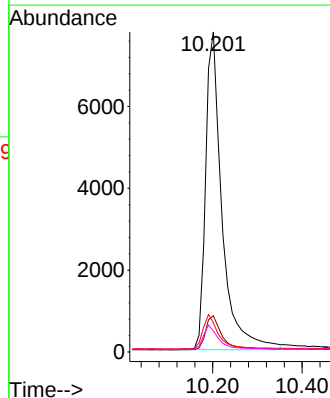
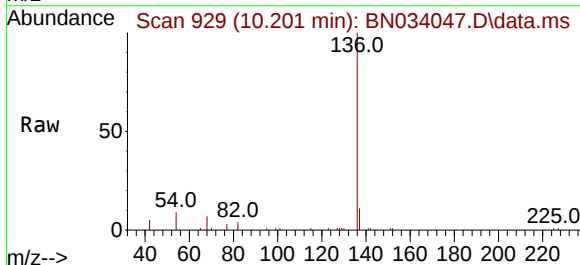
Instrument :
BNA_N
ClientSampleId :
PB163341BL

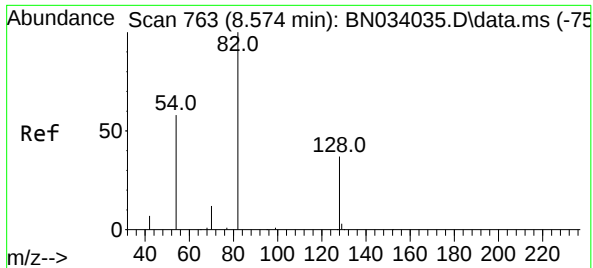
Tgt Ion: 99 Resp: 6660
Ion Ratio Lower Upper
99 100
42 22.7 17.8 26.8
71 33.0 26.2 39.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.201 min Scan# 929
Delta R.T. 0.004 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion: 136 Resp: 19759
Ion Ratio Lower Upper
136 100
137 11.3 9.0 13.6
54 9.2 6.8 10.2
68 6.6 5.0 7.6

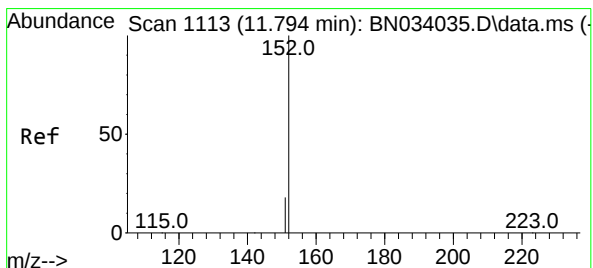
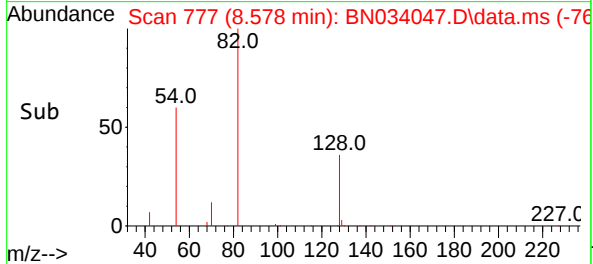
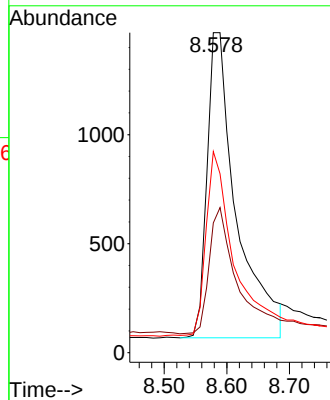
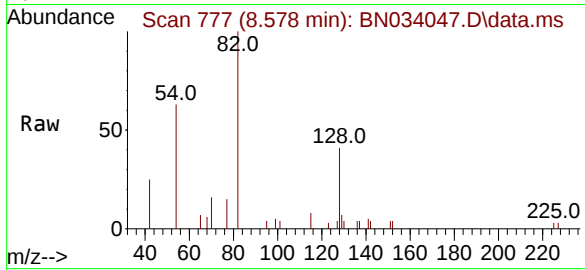




#8
Nitrobenzene-d5
Concen: 0.302 ng
RT: 8.578 min Scan# 71
Delta R.T. 0.004 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

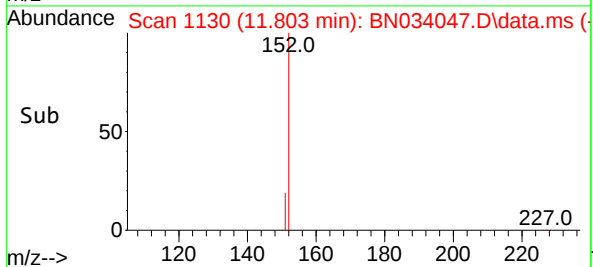
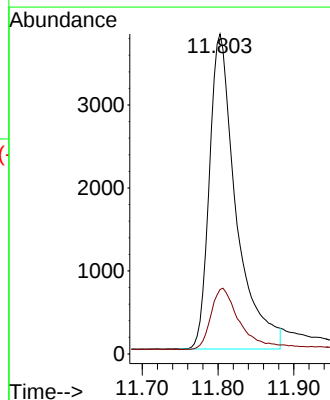
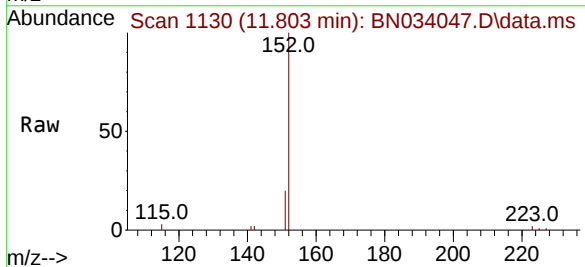
Instrument :
BNA_N
ClientSampleId :
PB163341BL

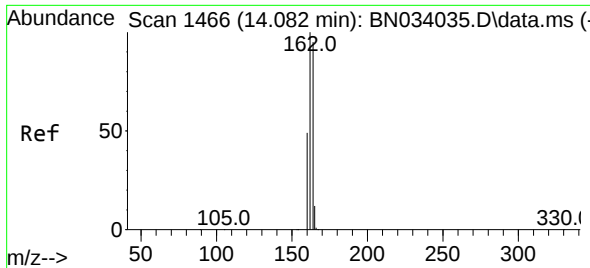
Tgt Ion:	82	Resp:	4571
Ion Ratio	Lower	Upper	
82	100		
128	40.5	31.4	47.2
54	62.9	47.4	71.0



#11
2-Methylnaphthalene-d10
Concen: 0.318 ng
RT: 11.803 min Scan# 1130
Delta R.T. 0.009 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:	152	Resp:	9277
Ion Ratio	Lower	Upper	
152	100		
151	20.9	16.8	25.2

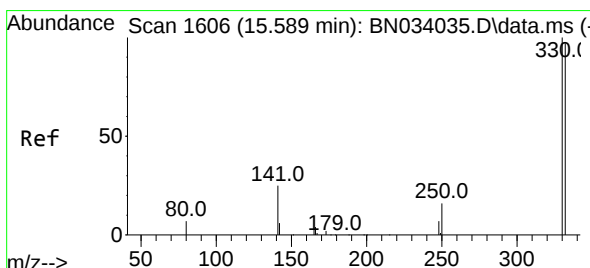
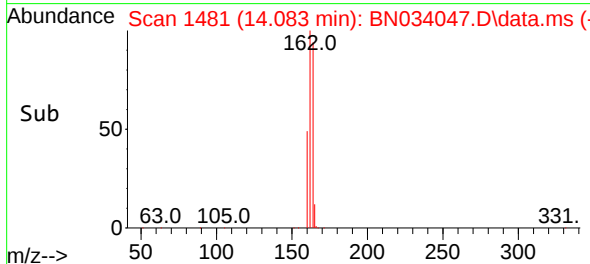
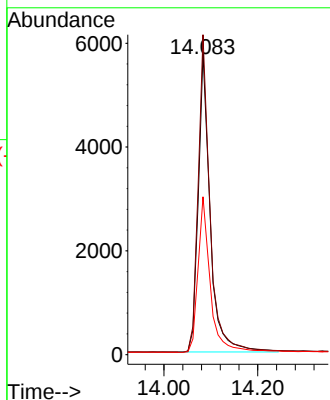
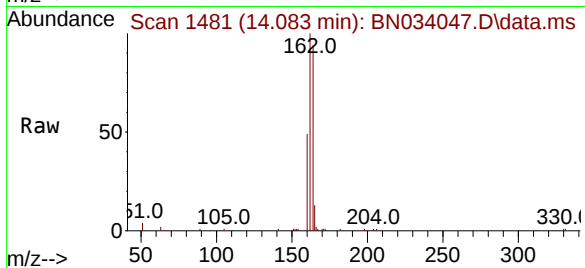




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 1466
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

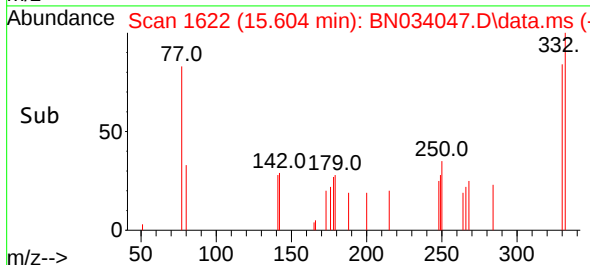
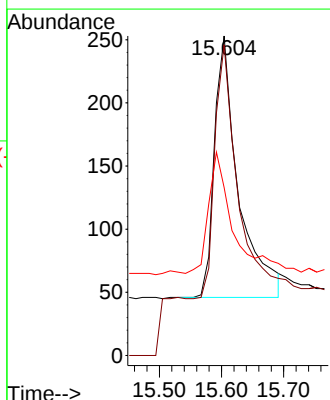
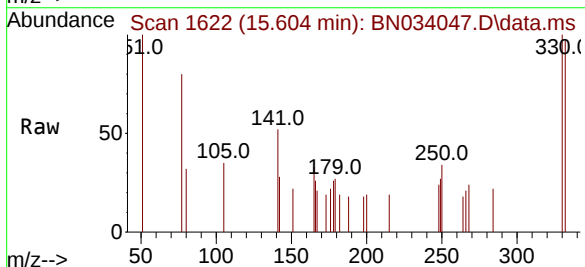
Instrument :
BNA_N
ClientSampleId :
PB163341BL

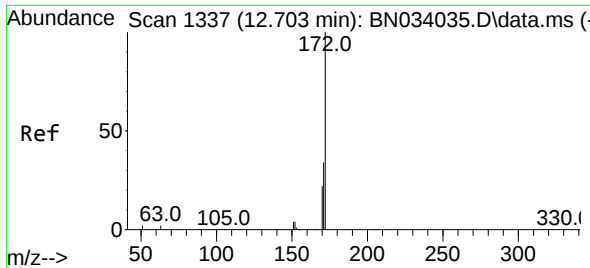
Tgt Ion:164 Resp: 10160
Ion Ratio Lower Upper
164 100
162 106.2 84.2 126.2
160 52.4 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.121 ng
RT: 15.604 min Scan# 1622
Delta R.T. 0.015 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:330 Resp: 557
Ion Ratio Lower Upper
330 100
332 93.7 77.4 116.0
141 46.0 35.9 53.9

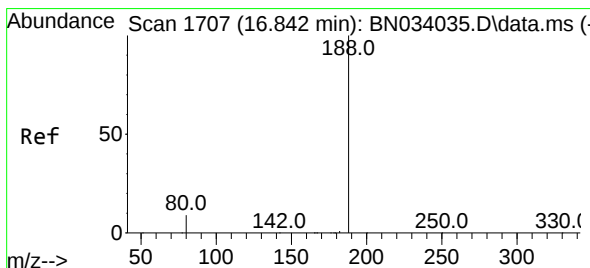
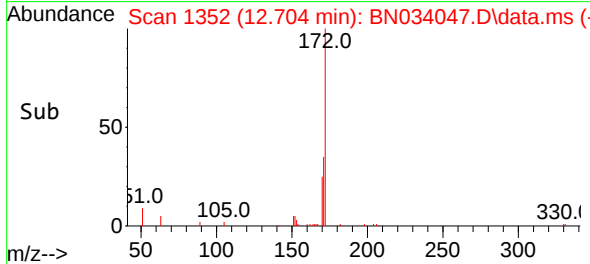
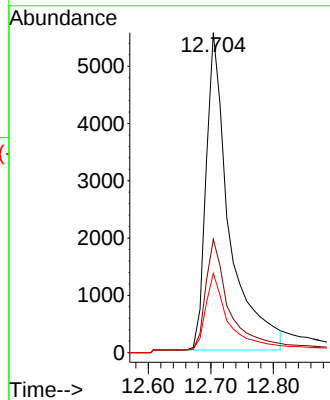
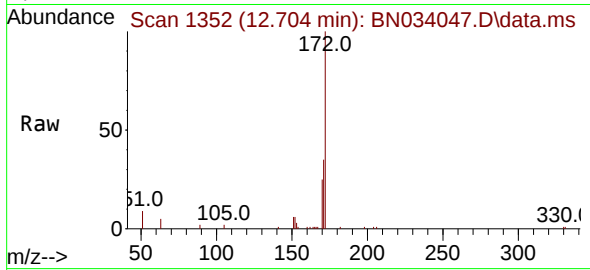




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.704 min Scan# 11
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

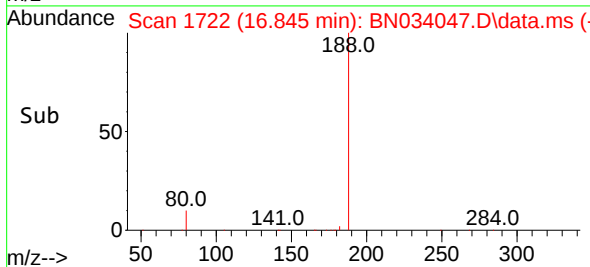
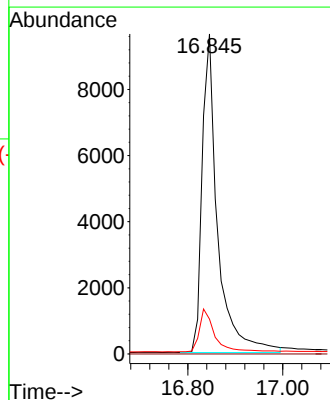
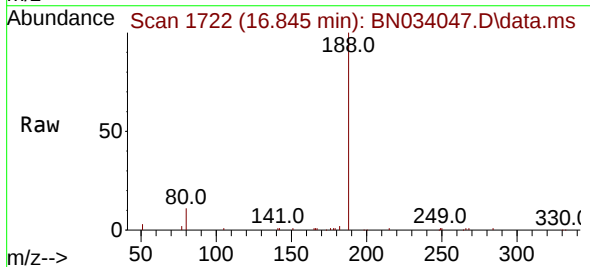
Instrument :
BNA_N
ClientSampleId :
PB163341BL

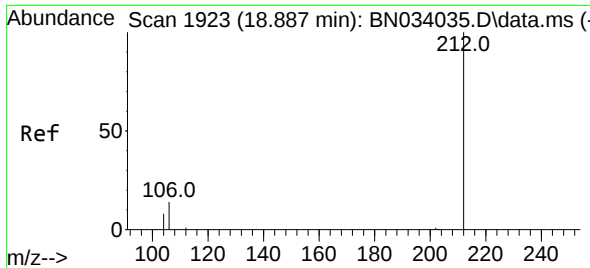
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.3	40.9
170	24.8	18.1	27.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.845 min Scan# 1722
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	7.4	11.0

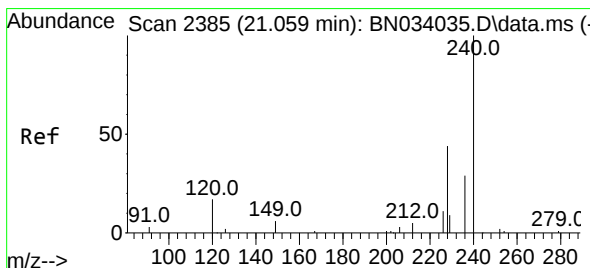
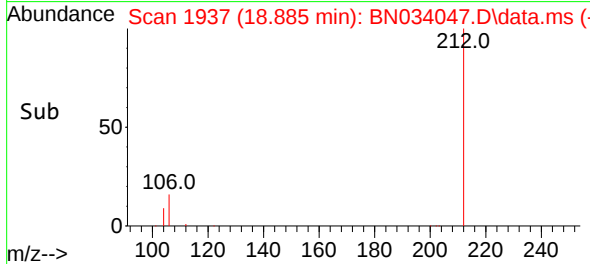
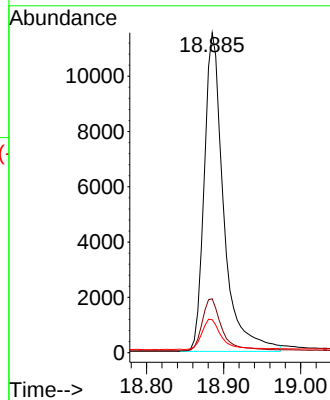
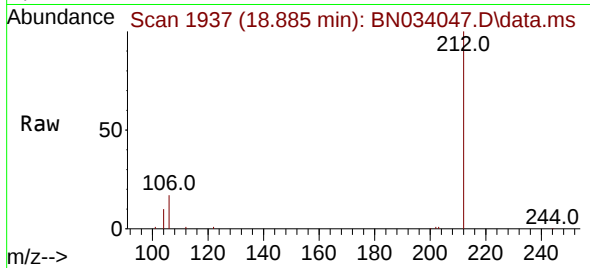




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 18.885 min Scan# 1923
Delta R.T. -0.002 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

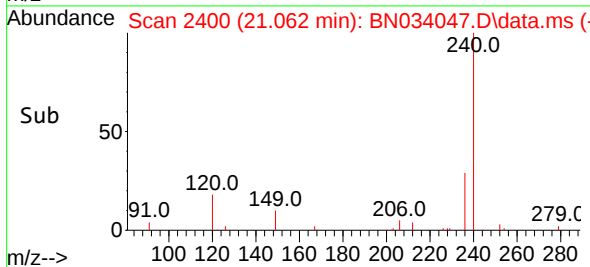
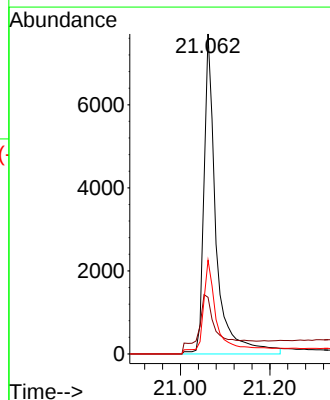
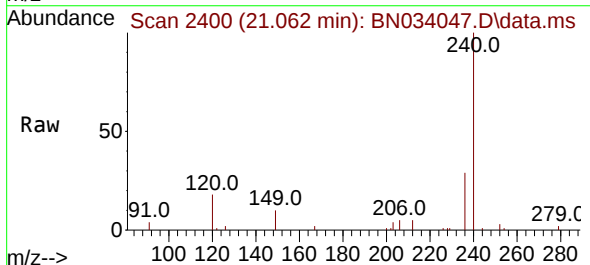
Instrument :
BNA_N
ClientSampleId :
PB163341BL

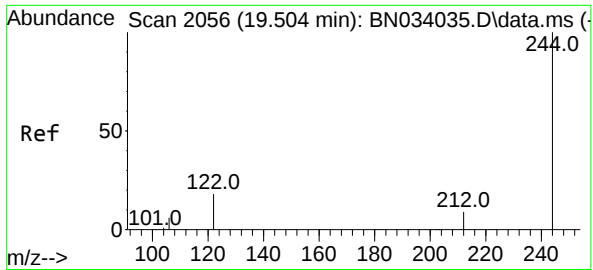
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.6	13.4	20.2
104	9.5	7.8	11.6



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion	Ratio	Lower	Upper
240	100		
120	17.7	13.5	20.3
236	29.3	23.4	35.0

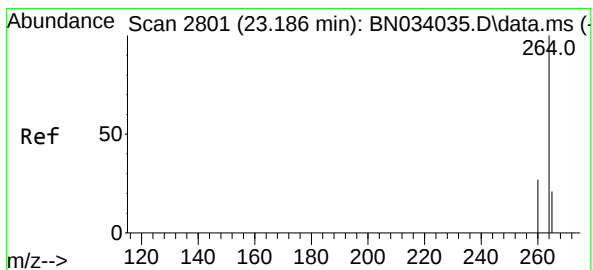
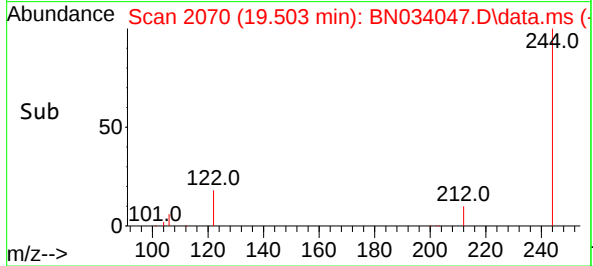
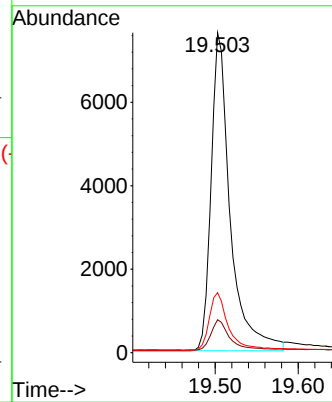
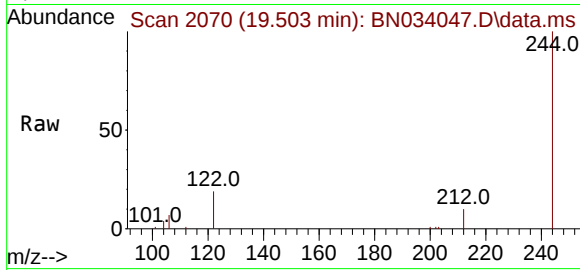




#31
Terphenyl-d14
Concen: 0.435 ng
RT: 19.503 min Scan# 2056
Delta R.T. -0.002 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

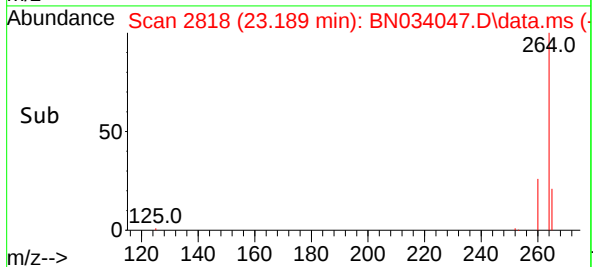
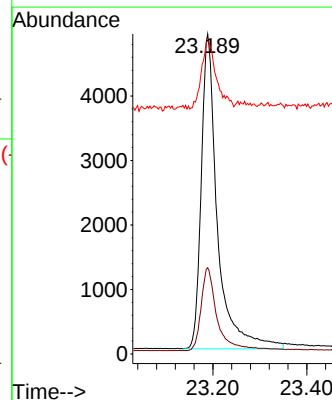
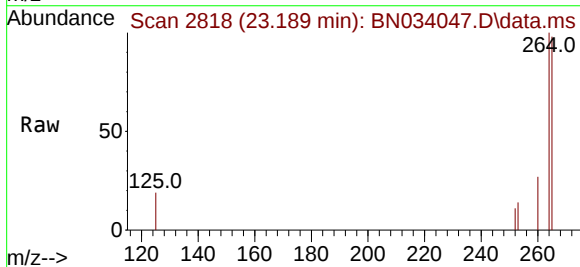
Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:244	Resp:	12204
Ion Ratio	Lower	Upper
244	100	
212	10.3	7.8 11.6
122	18.7	14.8 22.2



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2818
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:264	Resp:	11710
Ion Ratio	Lower	Upper
264	100	
260	27.0	21.7 32.5
265	97.7	52.1 78.1#



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BS	SDG No.:	P3845
Lab Sample ID:	PB163341BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034052.D	1	09/12/24 12:00	09/19/24 16:27	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.40		0.030	0.20	ug/L
87-68-3	Hexachlorobutadiene	0.41		0.030	0.10	ug/L
118-74-1	Hexachlorobenzene	0.51		0.030	0.10	ug/L
1912-24-9	Atrazine	0.48		0.020	0.10	ug/L
123-91-1	1,4-Dioxane	0.40		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		20 - 139	97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.55		30 - 150	137%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		27 - 123	97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		34 - 132	103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55		35 - 157	137%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8640		7.431		
1146-65-2	Naphthalene-d8	24800		10.191		
15067-26-2	Acenaphthene-d10	13400		14.083		
1517-22-2	Phenanthrene-d10	22500		16.833		
1719-03-5	Chrysene-d12	18700		21.062		
1520-96-3	Perylene-d12	24200		23.192		

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\BN091924\
Data File : BN034052.D
Acq On : 19 Sep 2024 16:27
Operator : JU/RC
Sample : PB163341BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Quant Time: Sep 19 17:03:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

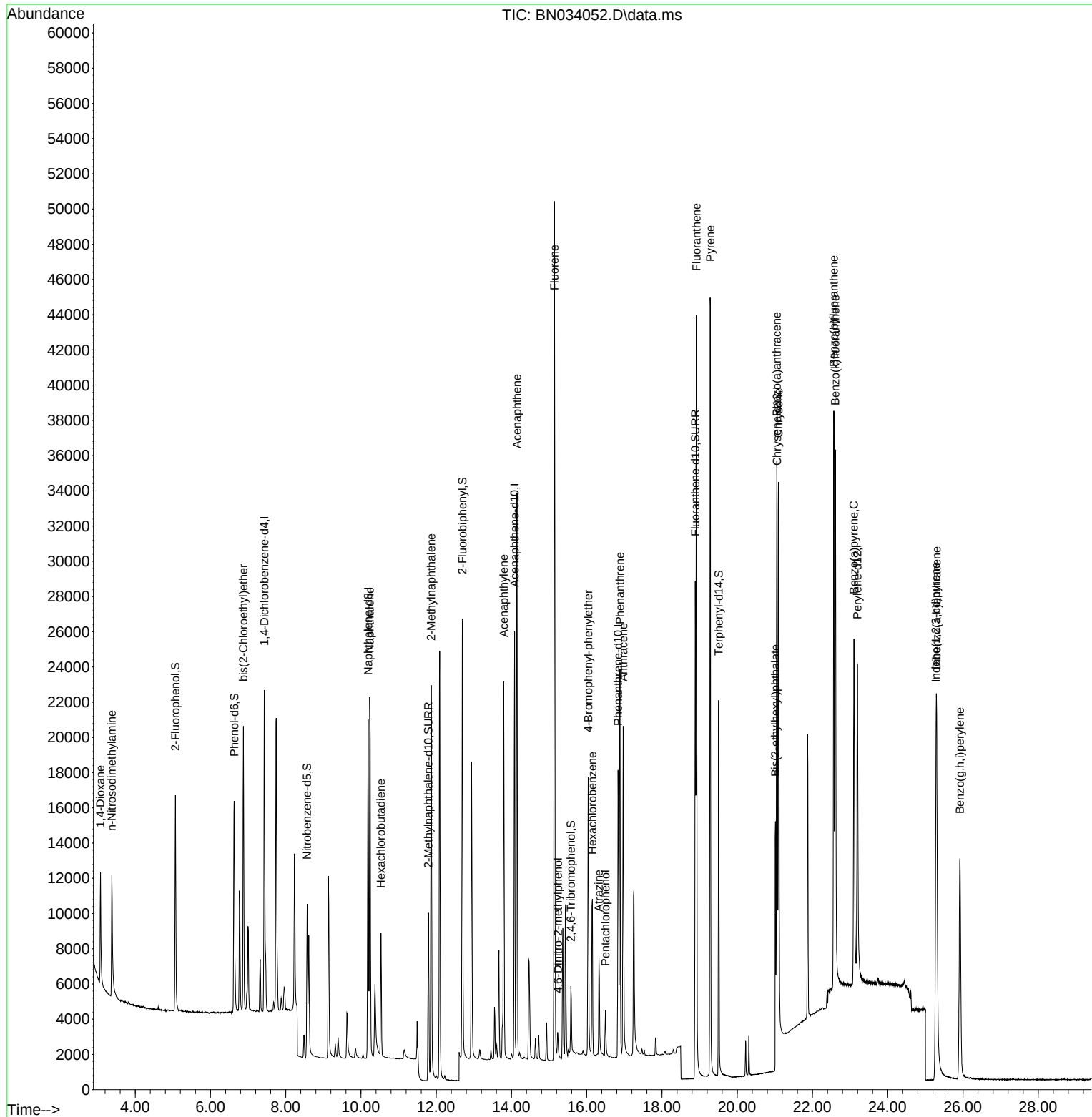
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.431	152	8638	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	24792	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	13364	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	22485	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	18706	0.400	ng	0.00
35) Perylene-d12	23.192	264	24163	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.069	112	10051	0.410	ng	0.00
5) Phenol-d6	6.629	99	11532	0.404	ng	0.00
8) Nitrobenzene-d5	8.568	82	7405	0.390	ng	0.00
11) 2-Methylnaphthalene-d10	11.791	152	14256	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.580	330	2310	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	22489	0.414	ng	0.00
27) Fluoranthene-d10	18.885	212	31002	0.546	ng	0.00
31) Terphenyl-d14	19.508	244	20465	0.548	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.075	88	4294	0.398	ng	93
3) n-Nitrosodimethylamine	3.379	42	4909	0.399	ng	# 96
6) bis(2-Chloroethyl)ether	6.874	93	10756	0.426	ng	98
9) Naphthalene	10.233	128	27551	0.405	ng	99
10) Hexachlorobutadiene	10.532	225	5271	0.411	ng	# 100
12) 2-Methylnaphthalene	11.867	142	17152	0.387	ng	100
16) Acenaphthylene	13.795	152	22769	0.398	ng	100
17) Acenaphthene	14.147	154	16361	0.399	ng	99
18) Fluorene	15.142	166	20666	0.384	ng	100
20) 4,6-Dinitro-2-methylph...	15.238	198	1220	0.430	ng	# 66
21) 4-Bromophenyl-phenylether	16.039	248	6186	0.489	ng	# 73
22) Hexachlorobenzene	16.151	284	7185	0.507	ng	99
23) Atrazine	16.324	200	5053	0.482	ng	# 93
24) Pentachlorophenol	16.498	266	1432	0.306	ng	99
25) Phenanthrene	16.883	178	24909	0.386	ng	100
26) Anthracene	16.970	178	20352	0.386	ng	100
28) Fluoranthene	18.918	202	40425	0.540	ng	100
30) Pyrene	19.285	202	40878	0.518	ng	100
32) Benzo(a)anthracene	21.053	228	22880	0.387	ng	99
33) Chrysene	21.098	228	26758	0.379	ng	100
34) Bis(2-ethylhexyl)phtha...	21.017	149	10935	0.444	ng	98
36) Indeno(1,2,3-cd)pyrene	25.282	276	28323	0.274	ng	95
37) Benzo(b)fluoranthene	22.566	252	37119	0.392	ng	97
38) Benzo(k)fluoranthene	22.607	252	40608	0.409	ng	# 94
39) Benzo(a)pyrene	23.101	252	30535	0.396	ng	95
40) Dibenzo(a,h)anthracene	25.300	278	22061	0.274	ng	97
41) Benzo(g,h,i)perylene	25.920	276	24793	0.274	ng	96

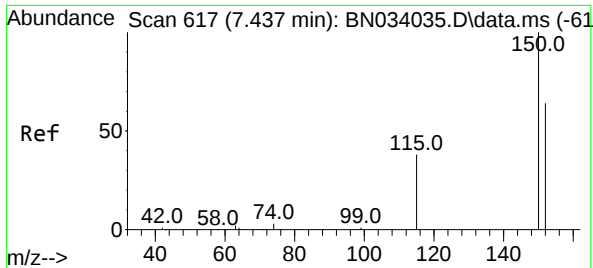
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034052.D
Acq On : 19 Sep 2024 16:27
Operator : JU/RC
Sample : PB163341BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Quant Time: Sep 19 17:03:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

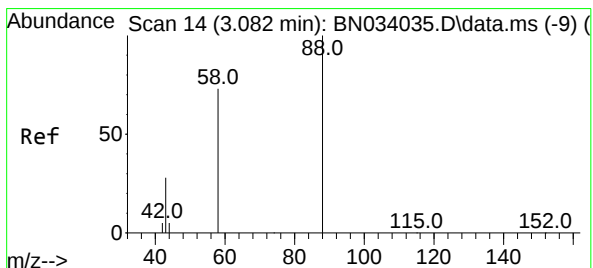
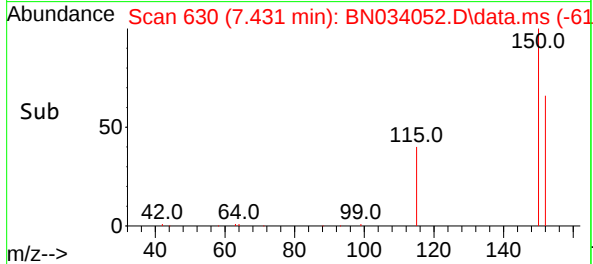
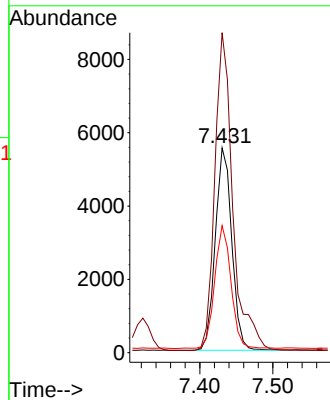
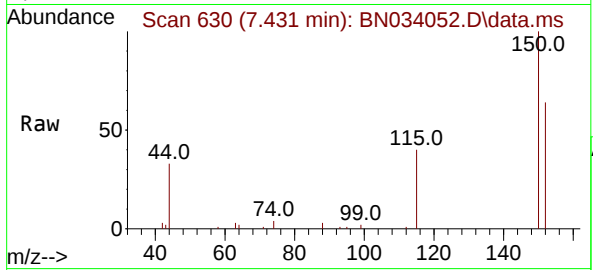




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.431 min Scan# 61
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

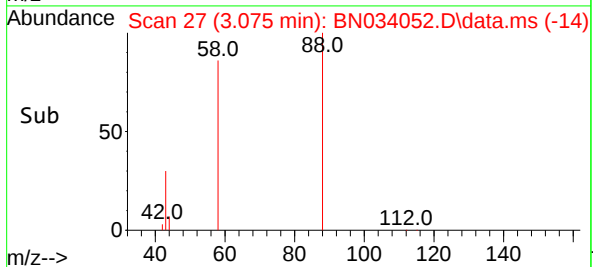
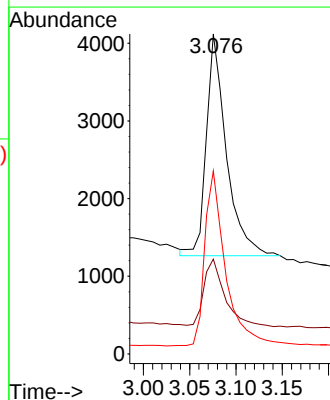
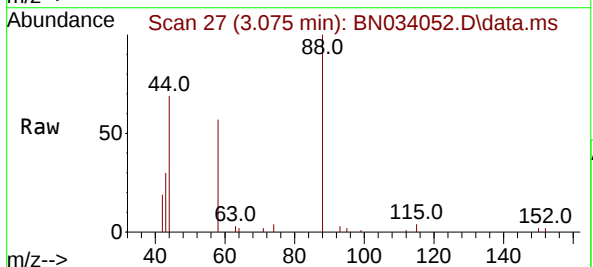
Instrument :
BNA_N
ClientSampleId :
PB163341BS

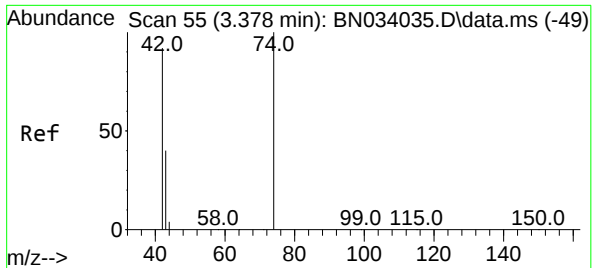
Tgt Ion:152 Resp: 8638
Ion Ratio Lower Upper
152 100
150 156.2 124.6 187.0
115 62.0 50.0 75.0



#2
1,4-Dioxane
Concen: 0.398 ng
RT: 3.075 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 88 Resp: 4294
Ion Ratio Lower Upper
88 100
43 32.0 25.8 38.8
58 81.8 58.8 88.2

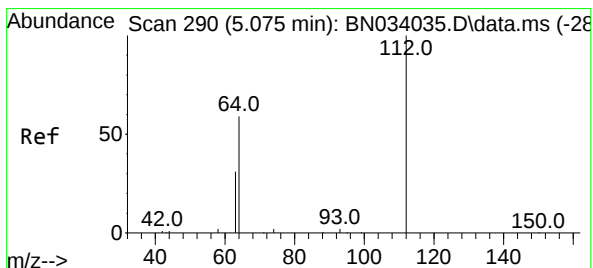
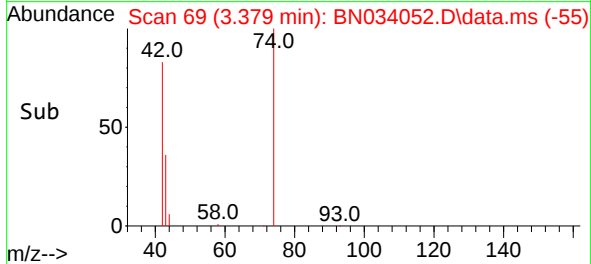
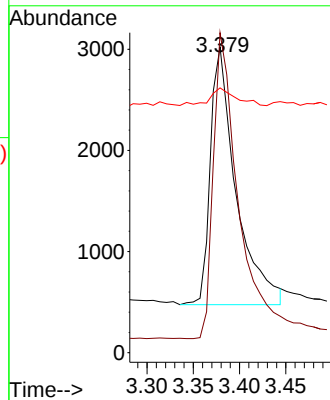
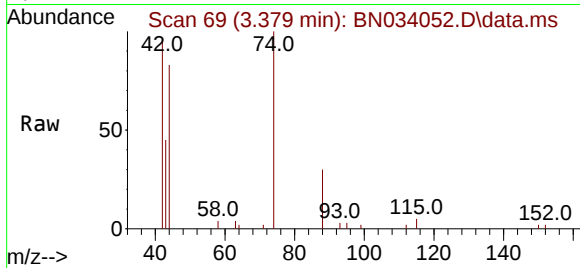




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.379 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

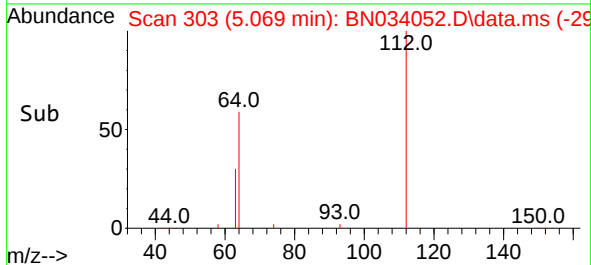
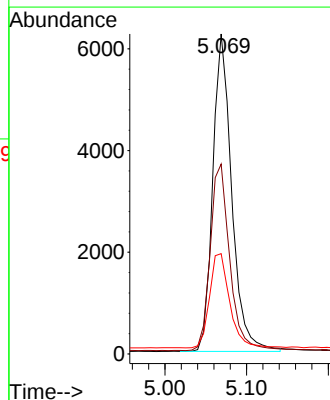
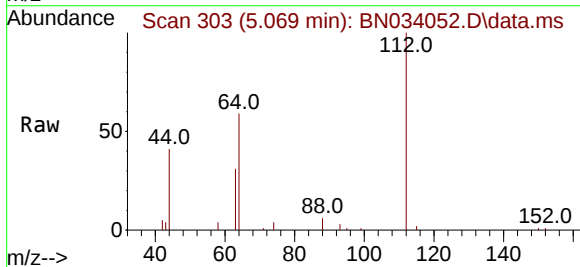
Instrument :
BNA_N
ClientSampleId :
PB163341BS

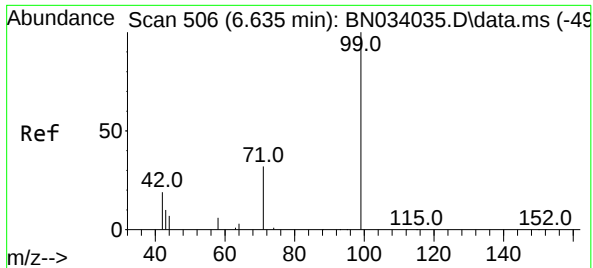
Tgt Ion: 42 Resp: 4909
Ion Ratio Lower Upper
42 100
74 116.7 94.6 142.0
44 6.9 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.410 ng
RT: 5.069 min Scan# 303
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 112 Resp: 10051
Ion Ratio Lower Upper
112 100
64 60.8 48.6 72.8
63 31.7 25.6 38.4

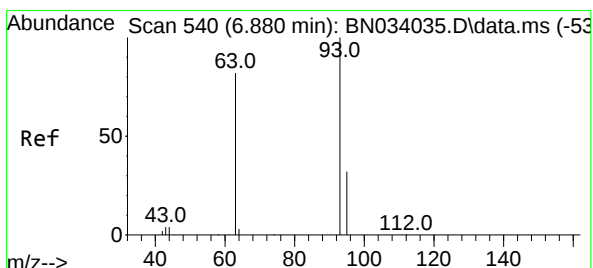
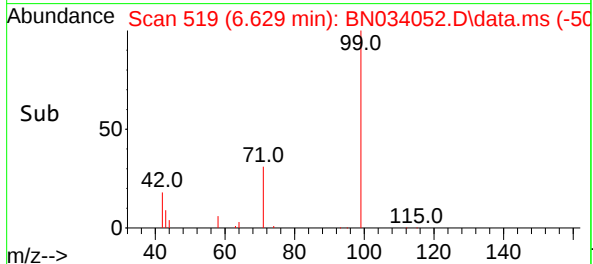
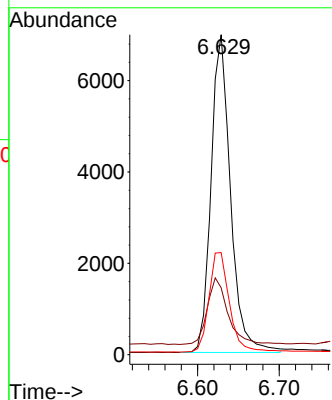
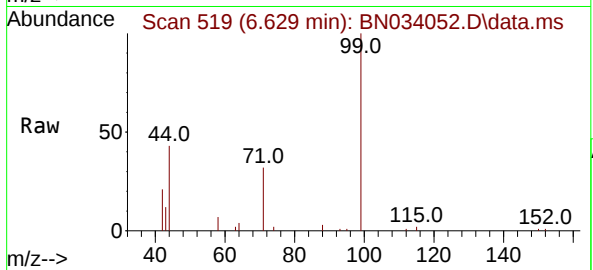




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.629 min Scan# 519
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

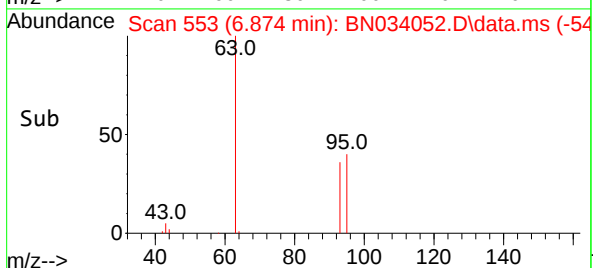
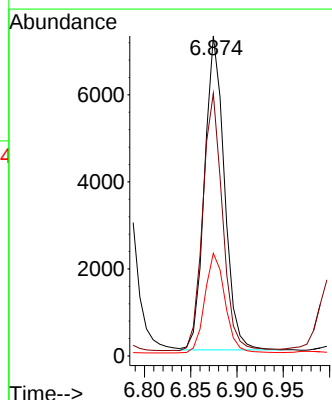
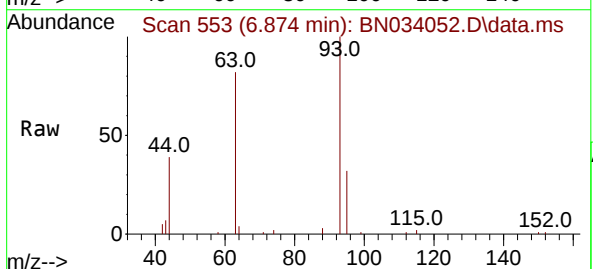
Instrument :
BNA_N
ClientSampleId :
PB163341BS

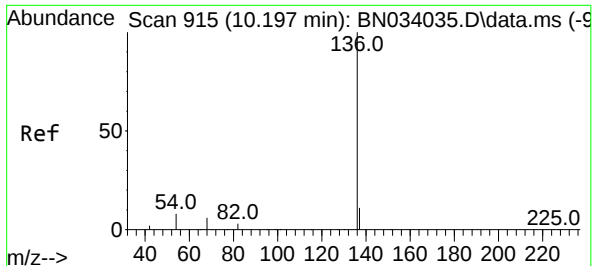
Tgt Ion: 99 Resp: 11532
Ion Ratio Lower Upper
99 100
42 22.3 17.8 26.8
71 33.0 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.426 ng
RT: 6.874 min Scan# 553
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 93 Resp: 10756
Ion Ratio Lower Upper
93 100
63 82.0 67.3 100.9
95 32.4 26.8 40.2

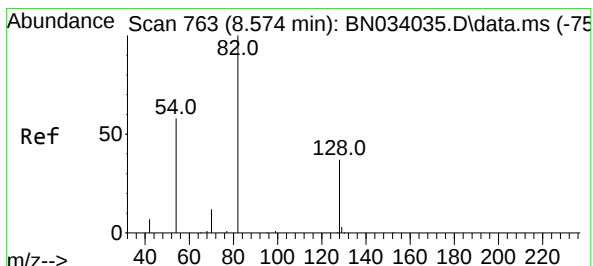
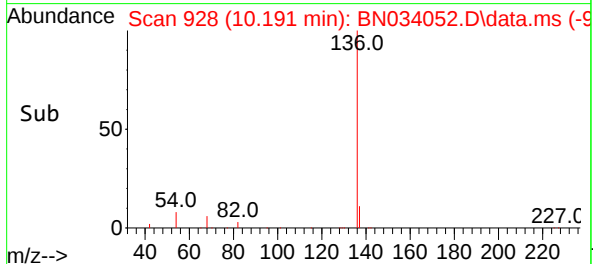
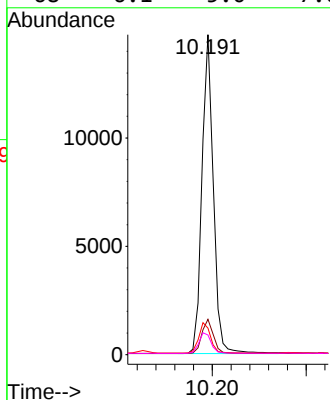
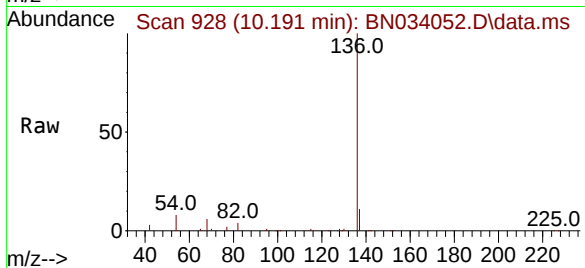




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 915
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

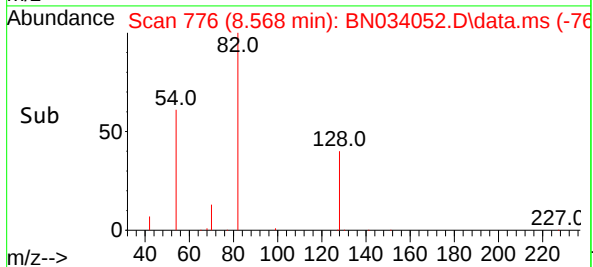
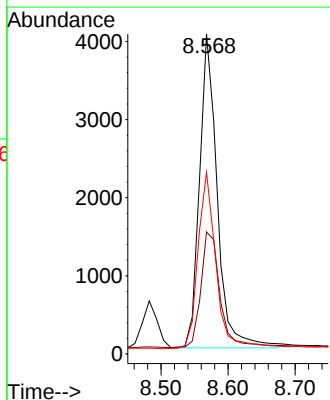
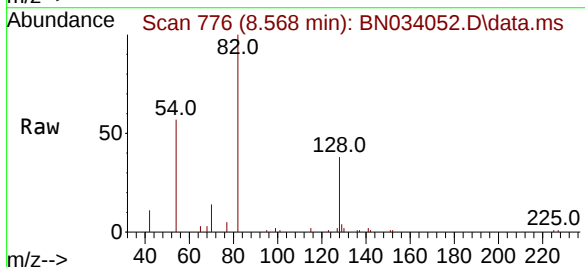
Instrument :
BNA_N
ClientSampleId :
PB163341BS

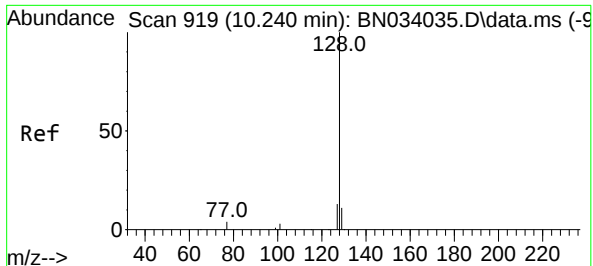
Tgt Ion:	136	Resp:	24792
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.3	6.8	10.2
68	6.1	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:	82	Resp:	7405
Ion	Ratio	Lower	Upper
82	100		
128	38.1	31.4	47.2
54	56.8	47.4	71.0

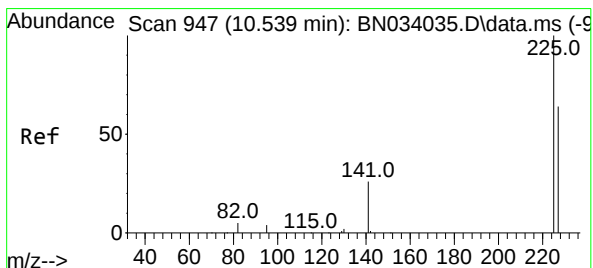
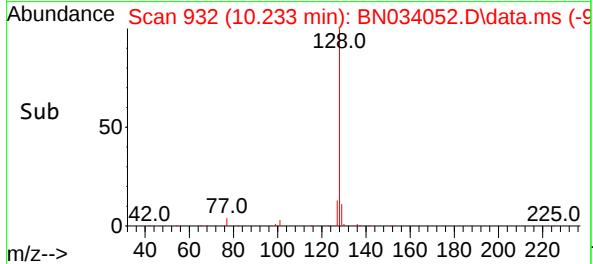
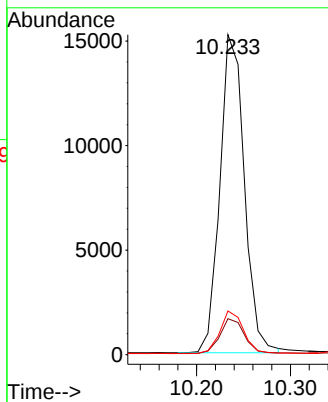
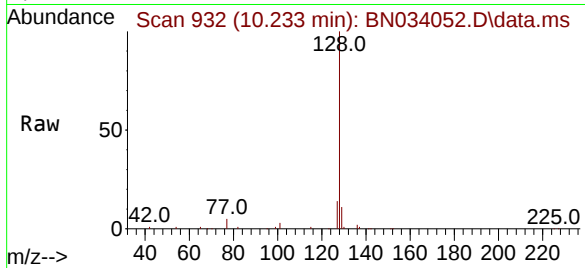




#9
Naphthalene
Concen: 0.405 ng
RT: 10.233 min Scan# 919
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

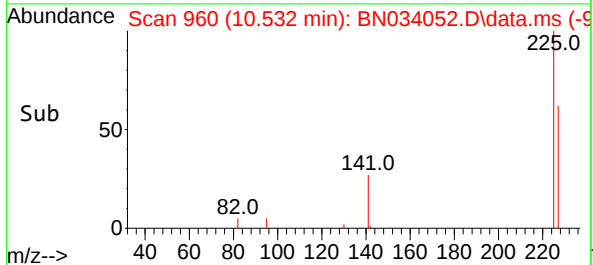
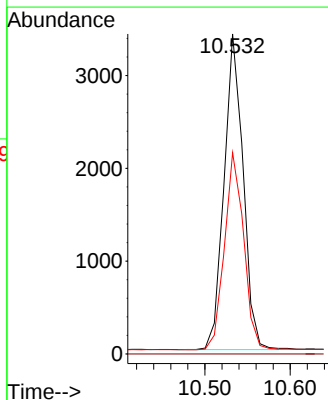
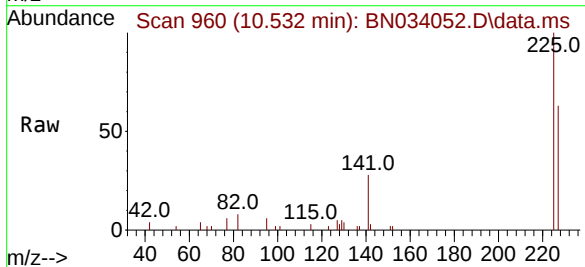
Instrument :
BNA_N
ClientSampleId :
PB163341BS

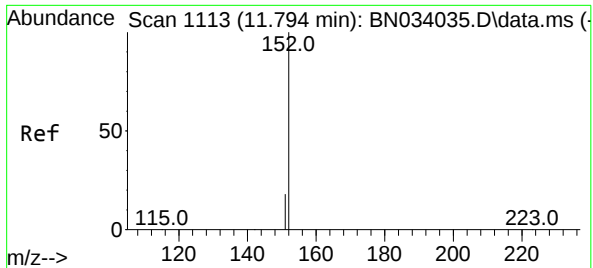
Tgt Ion	128	129	127
Resp:	27551		
Ion Ratio	100	11.2	13.7
Lower		9.2	10.7
Upper		13.8	16.1



#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion	225	223	227
Resp:	5271		
Ion Ratio	100	0.0	62.9
Lower		0.0	50.5
Upper		0.0	75.7

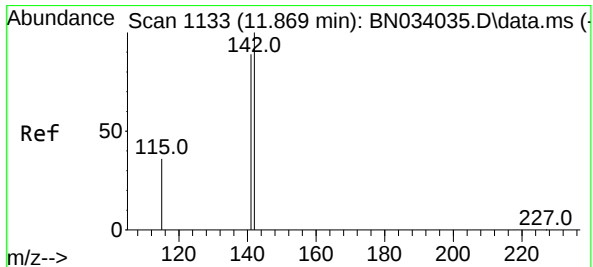
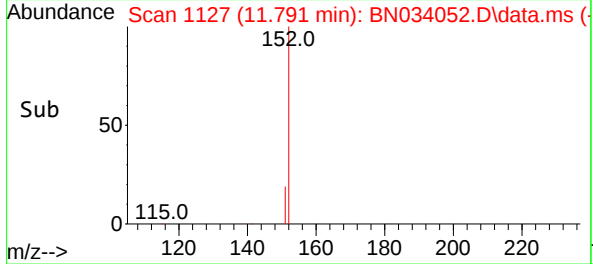
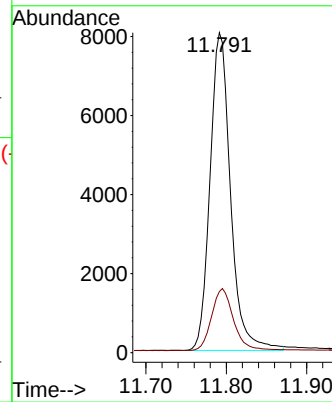
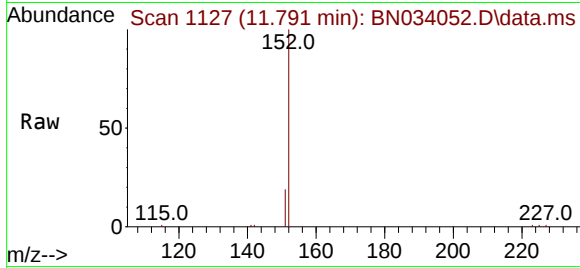




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.791 min Scan# 1113
Delta R.T. -0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

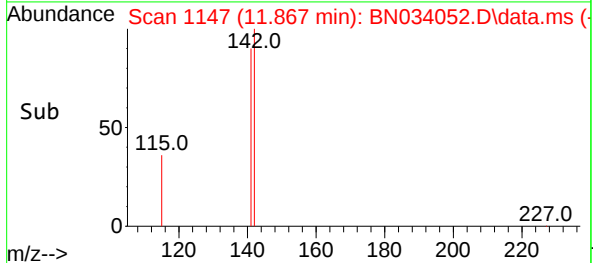
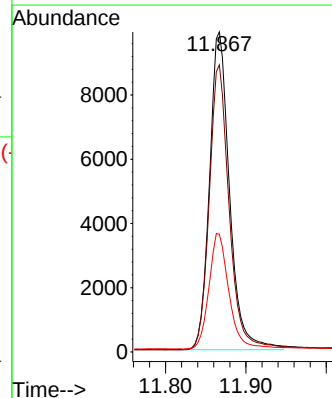
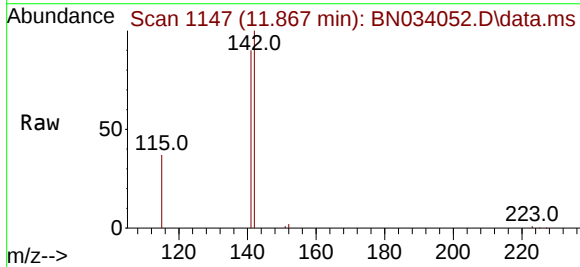
Instrument :
BNA_N
ClientSampleId :
PB163341BS

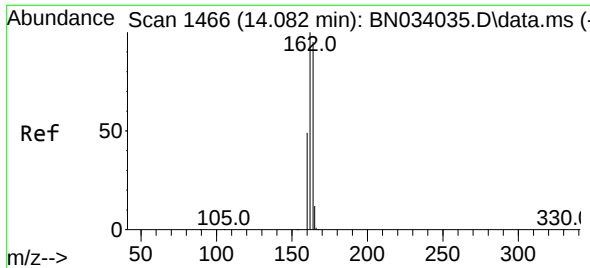
Tgt Ion:152 Resp: 14256
Ion Ratio Lower Upper
152 100
151 20.8 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:142 Resp: 17152
Ion Ratio Lower Upper
142 100
141 89.7 71.6 107.4
115 36.8 30.0 45.0

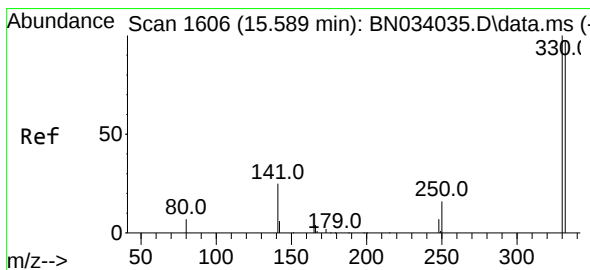
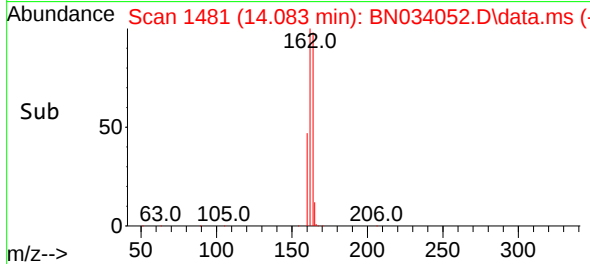
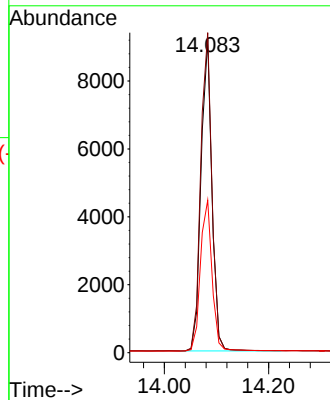
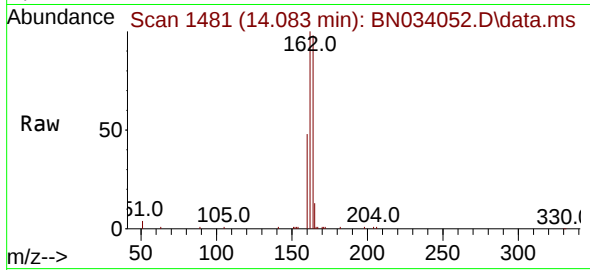




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

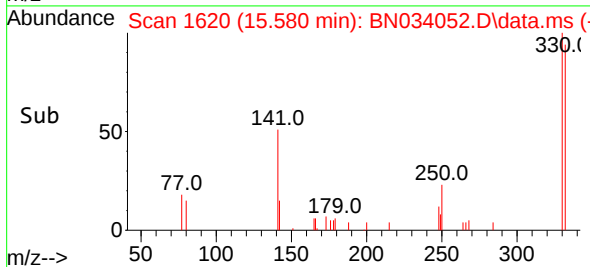
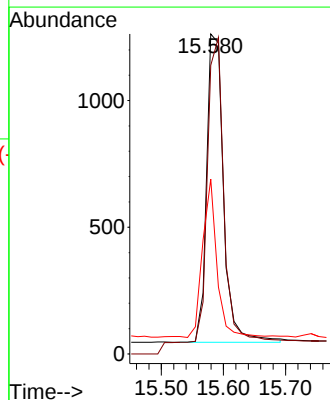
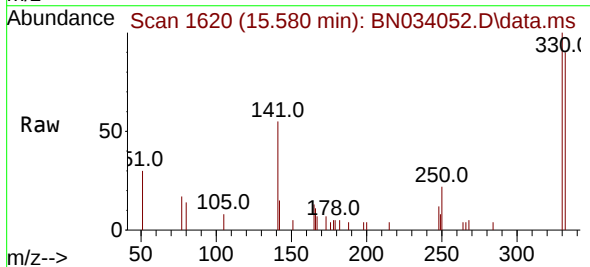
Instrument :
BNA_N
ClientSampleId :
PB163341BS

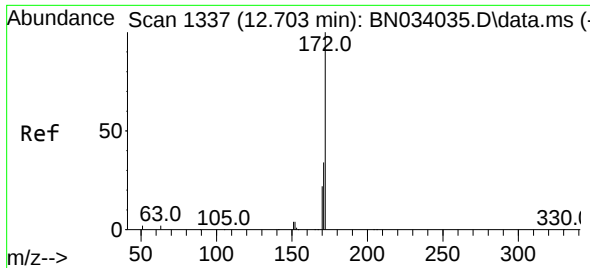
Tgt Ion:164 Resp: 13364
Ion Ratio Lower Upper
164 100
162 102.3 84.2 126.2
160 48.7 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:330 Resp: 2310
Ion Ratio Lower Upper
330 100
332 94.9 77.4 116.0
141 42.3 35.9 53.9

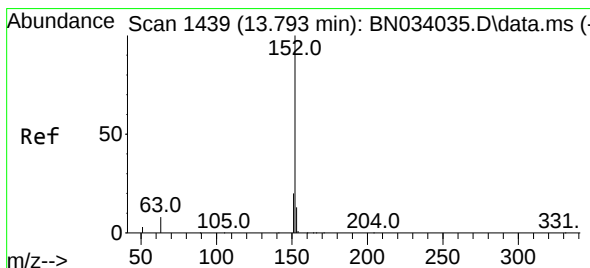
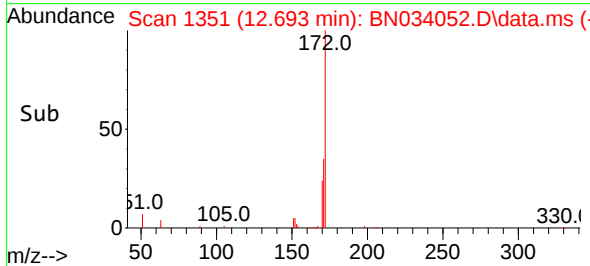
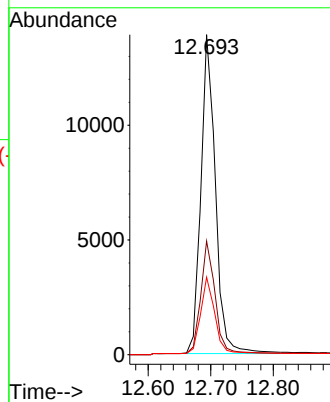
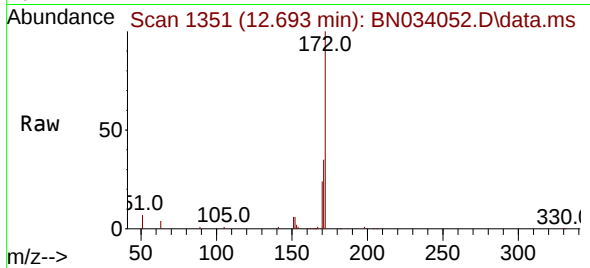




#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.693 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

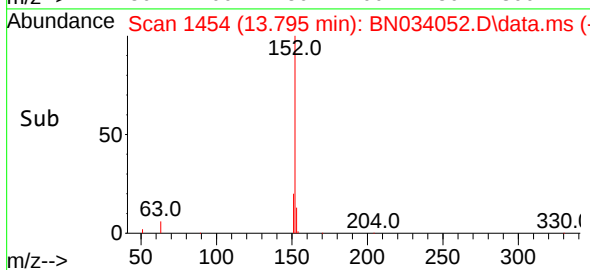
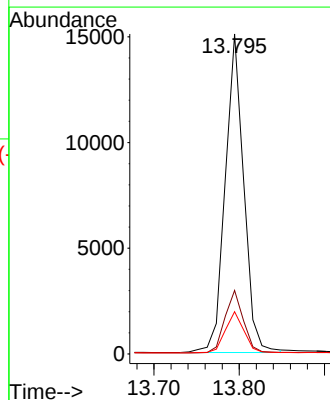
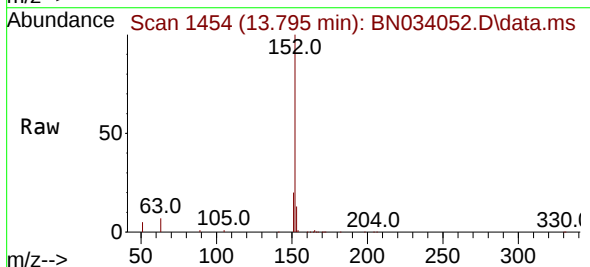
Instrument :
BNA_N
ClientSampleId :
PB163341BS

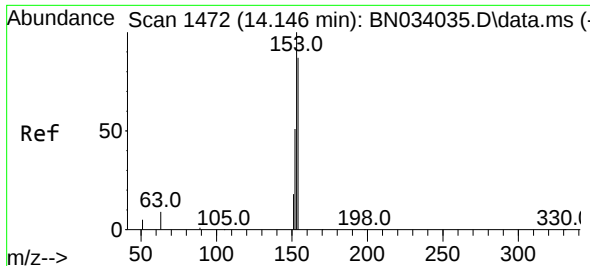
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	27.3	40.9
170	24.2	18.1	27.1



#16
Acenaphthylene
Concen: 0.398 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.3	15.5

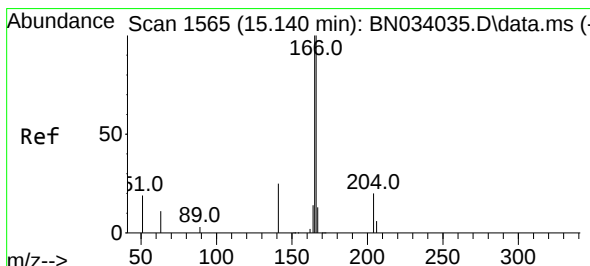
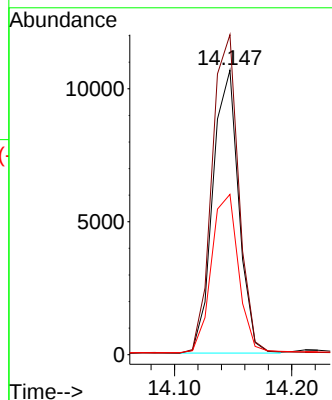
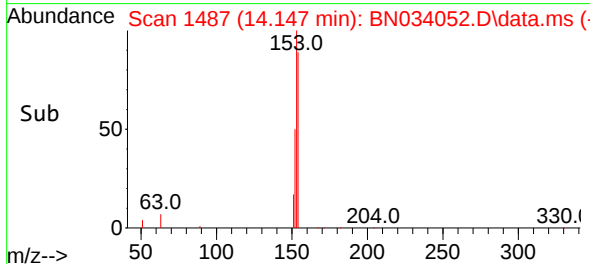
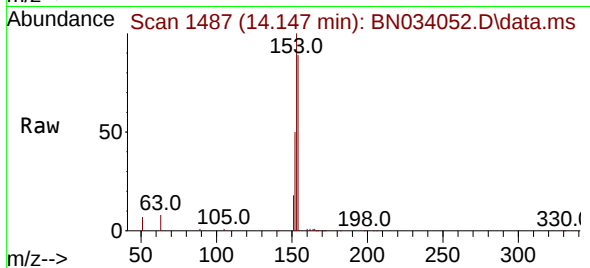




#17
Acenaphthene
Concen: 0.399 ng
RT: 14.147 min Scan# 1472
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

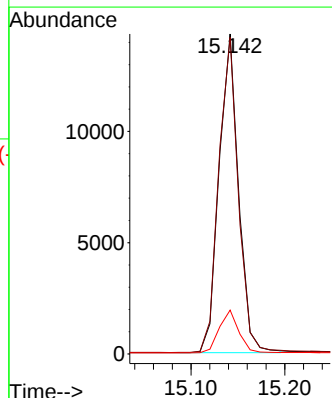
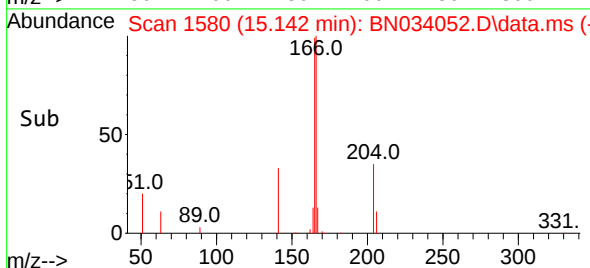
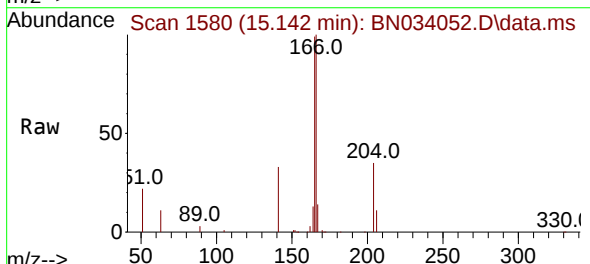
Instrument :
BNA_N
ClientSampleId :
PB163341BS

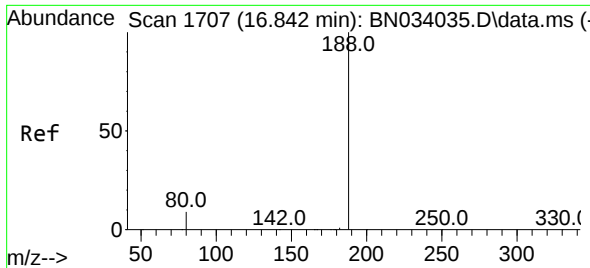
Tgt Ion:154 Resp: 16361
Ion Ratio Lower Upper
154 100
153 115.8 91.6 137.4
152 58.8 47.4 71.2



#18
Fluorene
Concen: 0.384 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:166 Resp: 20666
Ion Ratio Lower Upper
166 100
165 99.4 79.1 118.7
167 13.4 10.6 15.8

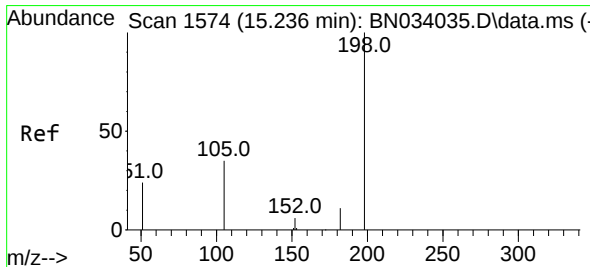
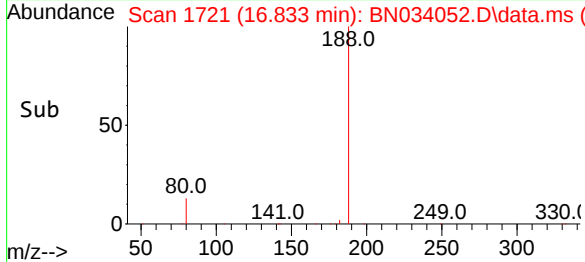
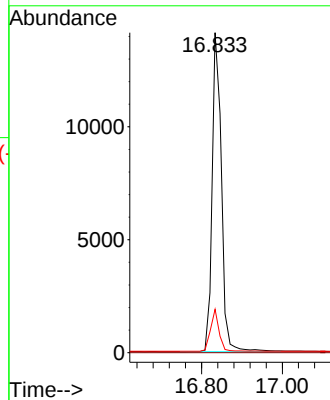
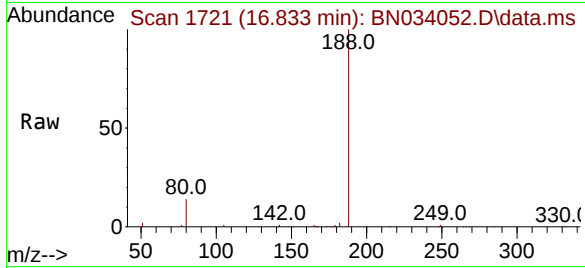




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

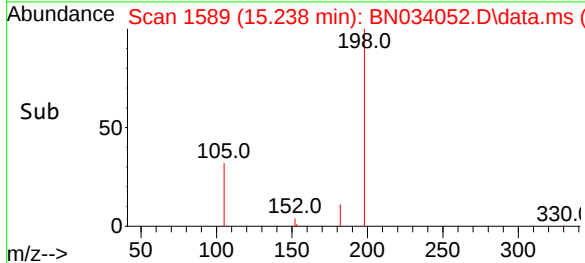
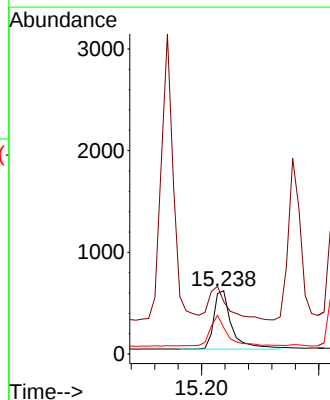
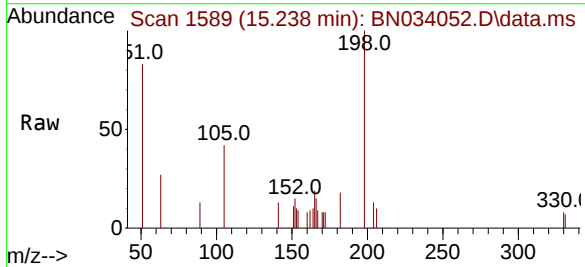
Instrument :
BNA_N
ClientSampleId :
PB163341BS

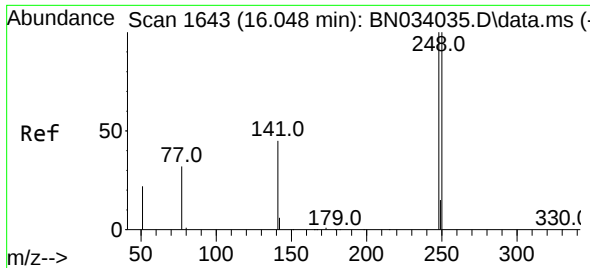
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.6	7.4	11.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.430 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion	Ratio	Lower	Upper
198	100		
51	83.1	106.4	159.6
105	41.6	38.5	57.7

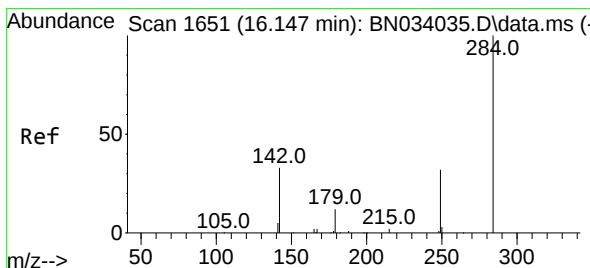
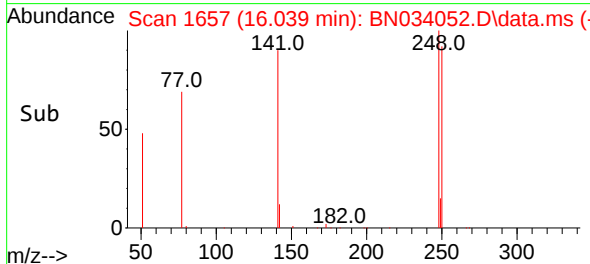
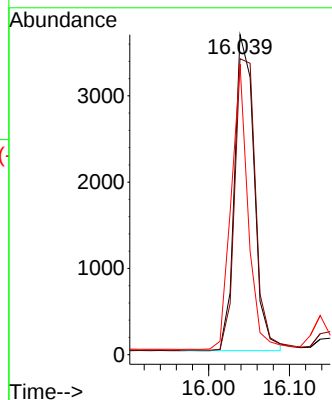
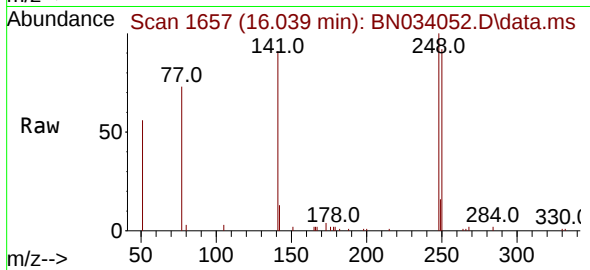




#21
4-Bromophenyl-phenylether
Concen: 0.489 ng
RT: 16.039 min Scan# 1666
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

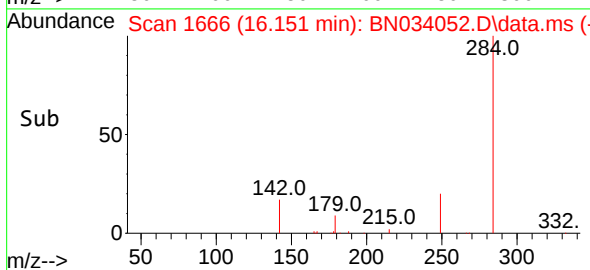
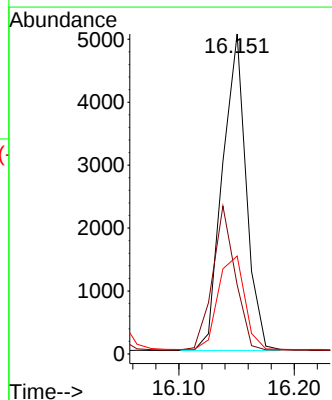
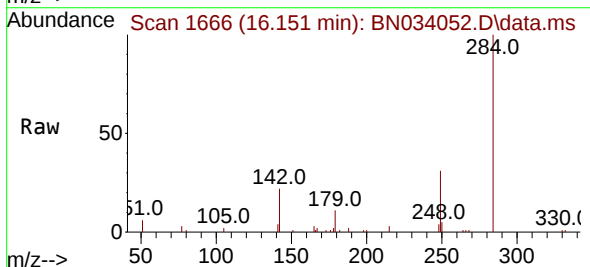
Instrument :
BNA_N
ClientSampleId :
PB163341BS

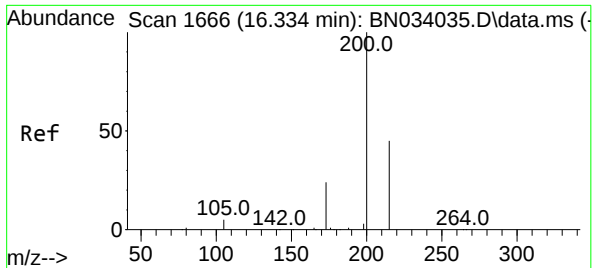
Tgt Ion:248 Resp: 6186
Ion Ratio Lower Upper
248 100
250 92.5 80.5 120.7
141 90.8 37.1 55.7#



#22
Hexachlorobenzene
Concen: 0.507 ng
RT: 16.151 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:284 Resp: 7185
Ion Ratio Lower Upper
284 100
142 43.5 34.5 51.7
249 33.0 25.8 38.6

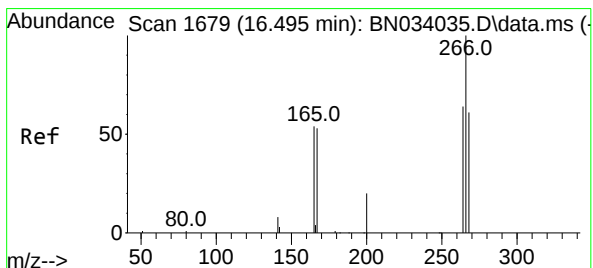
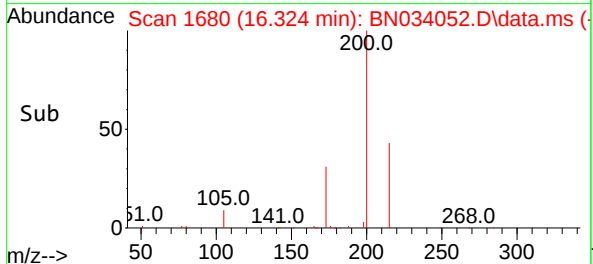
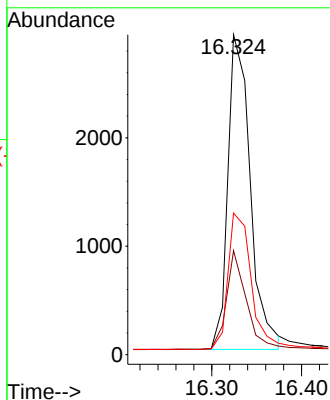
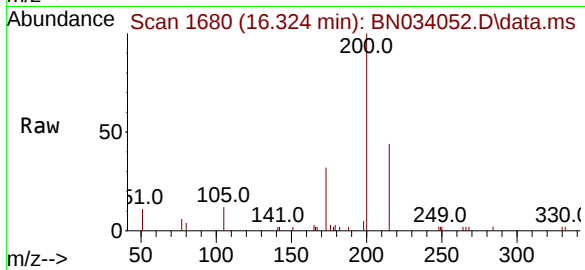




#23
Atrazine
Concen: 0.482 ng
RT: 16.324 min Scan# 1680
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

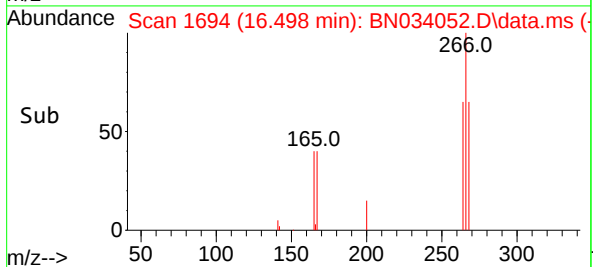
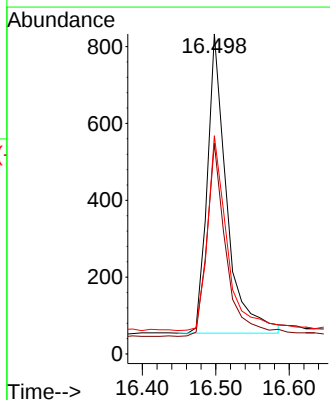
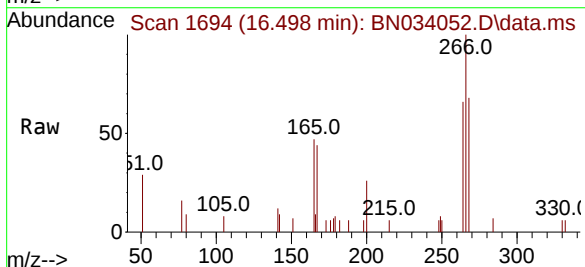
Instrument :
BNA_N
ClientSampleId :
PB163341BS

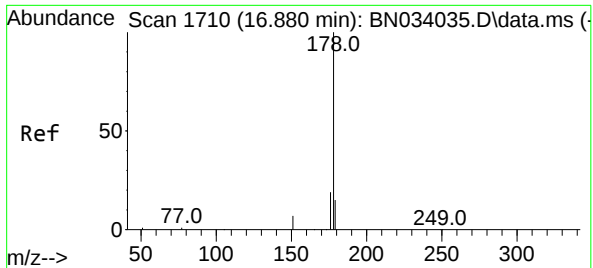
Tgt Ion:200 Resp: 5053
Ion Ratio Lower Upper
200 100
173 32.5 20.1 30.1#
215 44.2 37.0 55.6



#24
Pentachlorophenol
Concen: 0.306 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:266 Resp: 1432
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 65.5 51.0 76.4

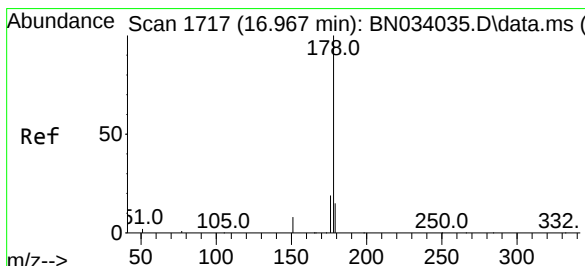
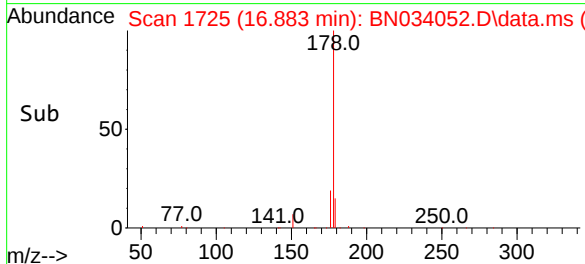
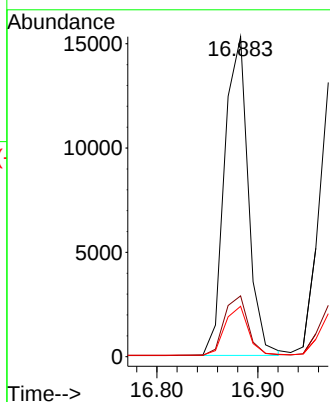
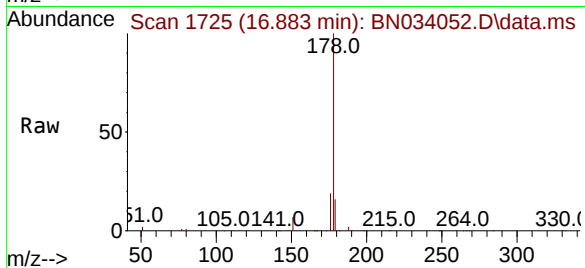




#25
Phenanthrene
Concen: 0.386 ng
RT: 16.883 min Scan# 1710
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

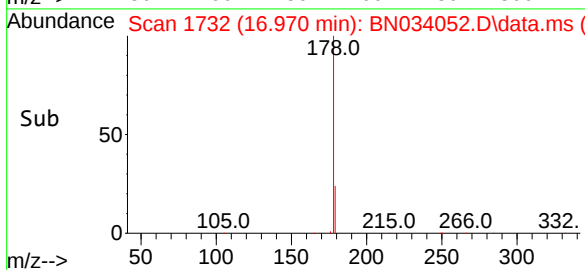
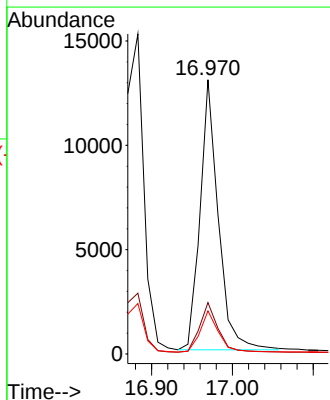
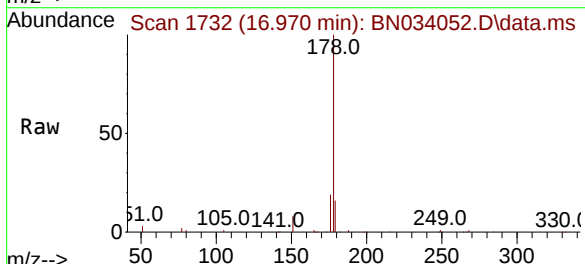
Instrument :
BNA_N
ClientSampleId :
PB163341BS

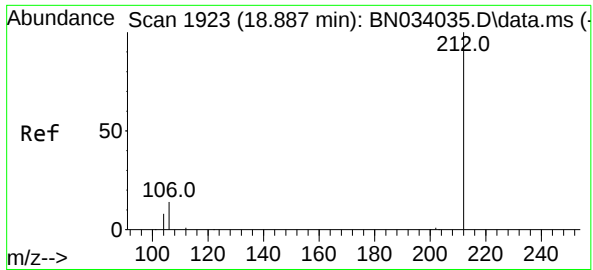
Tgt Ion:178 Resp: 24909
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.3 12.1 18.1



#26
Anthracene
Concen: 0.386 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:178 Resp: 20352
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.6
179 15.2 12.2 18.4

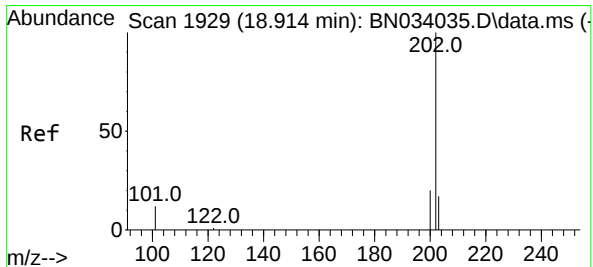
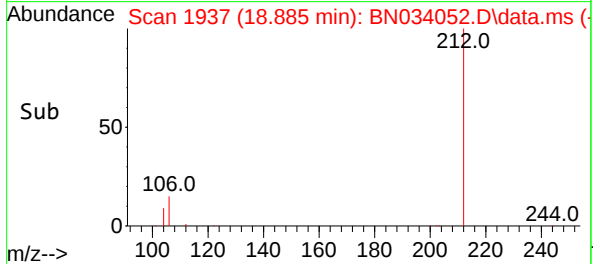
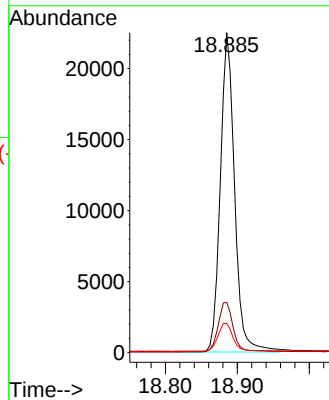
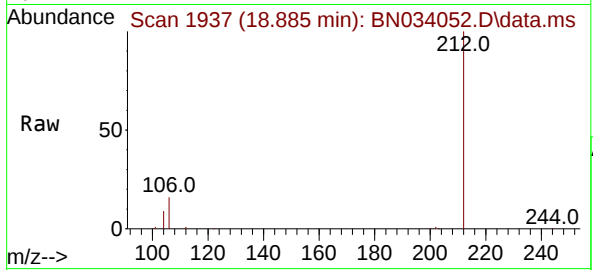




#27
Fluoranthene-d10
Concen: 0.546 ng
RT: 18.885 min Scan# 1937
Delta R.T. -0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

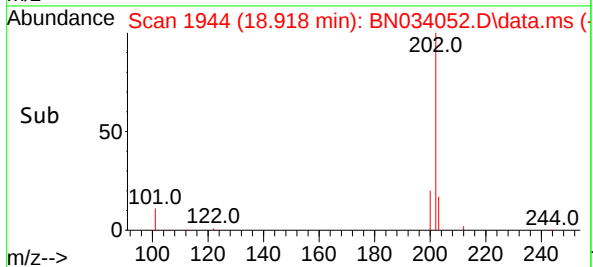
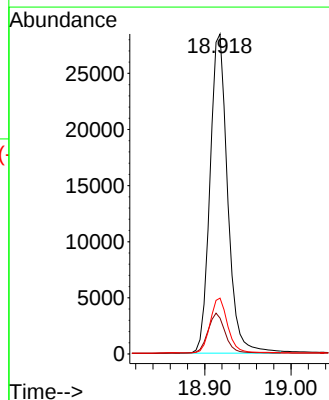
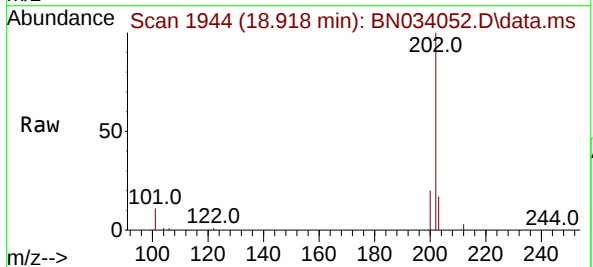
Instrument :
BNA_N
ClientSampleId :
PB163341BS

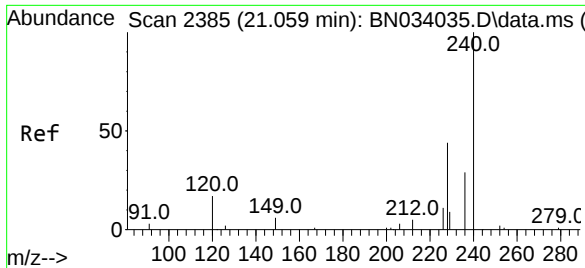
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.1	13.4	20.2
104	9.3	7.8	11.6



#28
Fluoranthene
Concen: 0.540 ng
RT: 18.918 min Scan# 1944
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.6	10.1	15.1
203	17.1	13.6	20.4

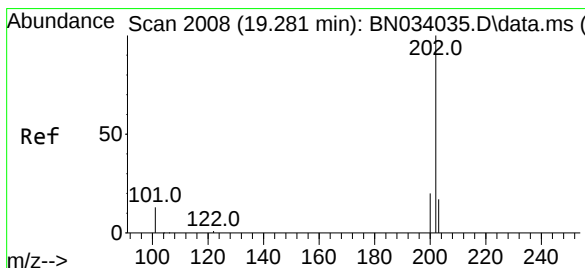
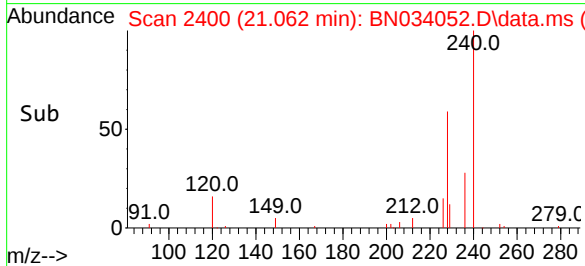
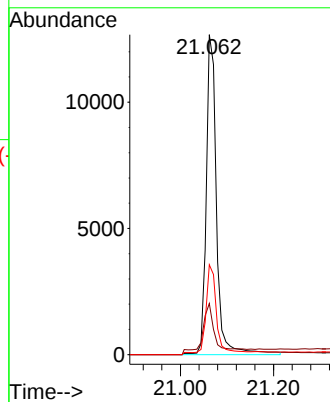
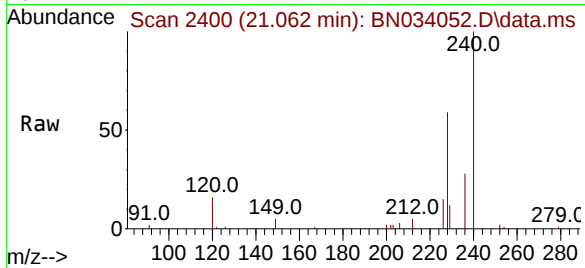




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

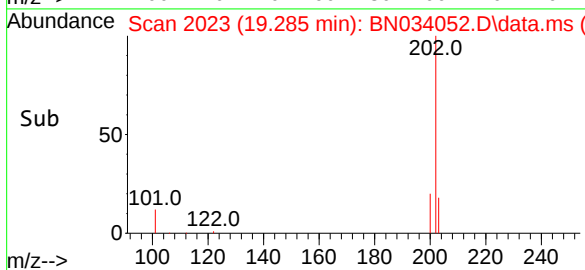
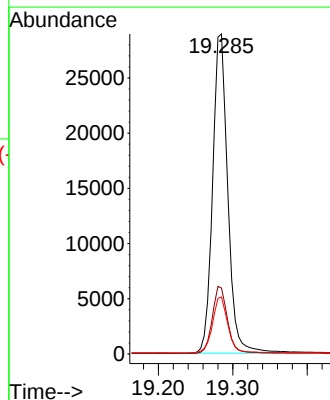
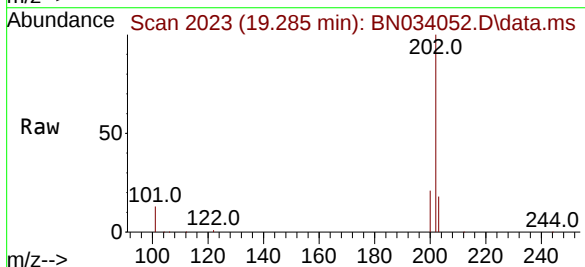
Instrument :
BNA_N
ClientSampleId :
PB163341BS

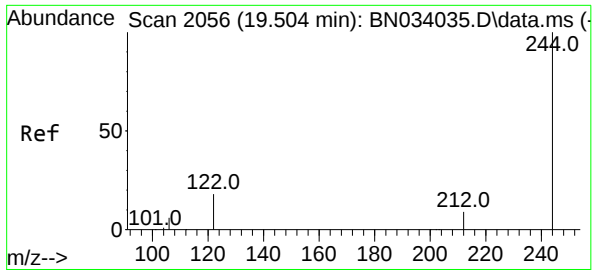
Tgt Ion:240 Resp: 18706
Ion Ratio Lower Upper
240 100
120 16.0 13.5 20.3
236 28.1 23.4 35.0



#30
Pyrene
Concen: 0.518 ng
RT: 19.285 min Scan# 2023
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:202 Resp: 40878
Ion Ratio Lower Upper
202 100
200 20.9 16.6 25.0
203 17.9 14.3 21.5

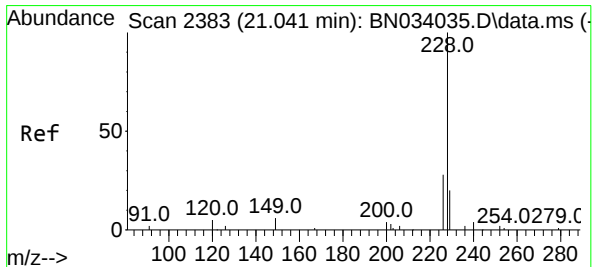
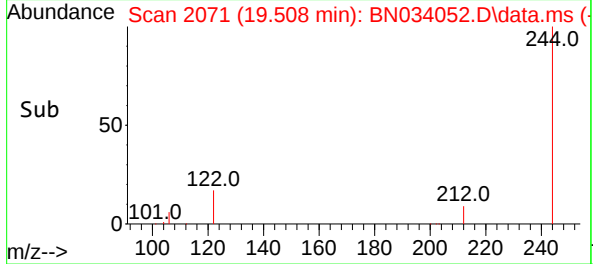
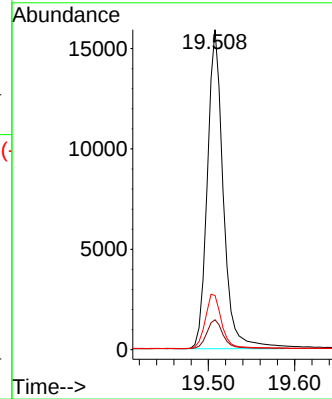
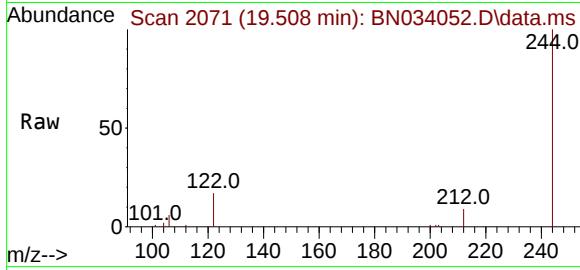




#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.508 min Scan# 2056
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

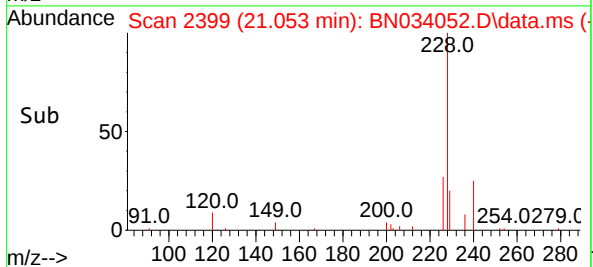
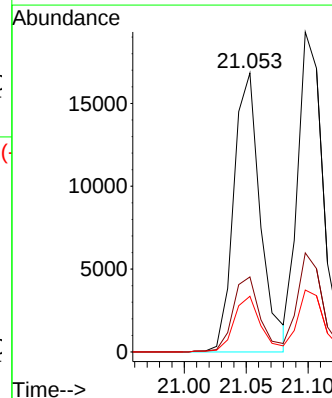
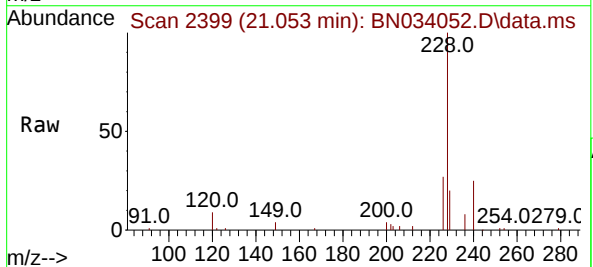
Instrument :
BNA_N
ClientSampleId :
PB163341BS

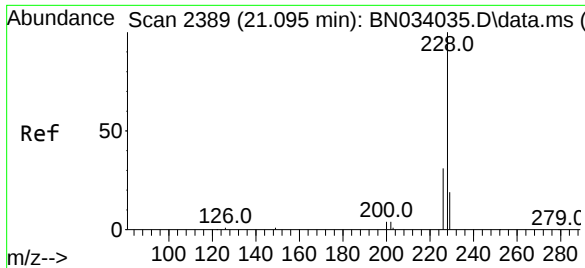
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.8	11.6
122	17.0	14.8	22.2



#32
Benzo(a)anthracene
Concen: 0.387 ng
RT: 21.053 min Scan# 2399
Delta R.T. 0.012 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.3	33.5
229	20.0	15.7	23.5





#33

Chrysene

Concen: 0.379 ng

RT: 21.098 min Scan# 2404

Delta R.T. 0.003 min

Lab File: BN034052.D

Acq: 19 Sep 2024 16:27

Instrument :

BNA_N

ClientSampleId :

PB163341BS

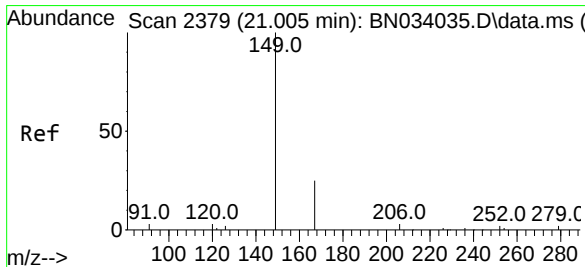
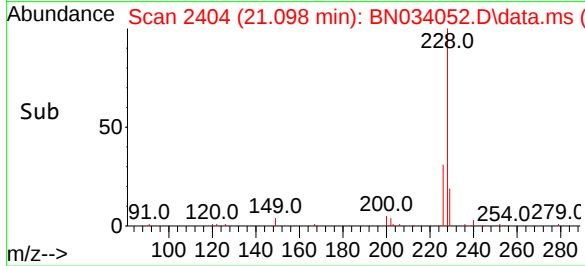
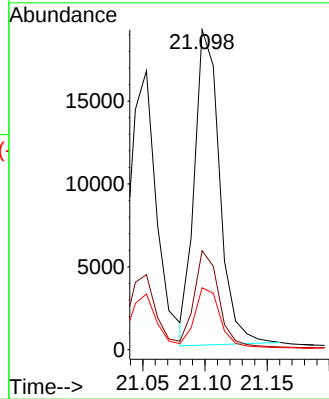
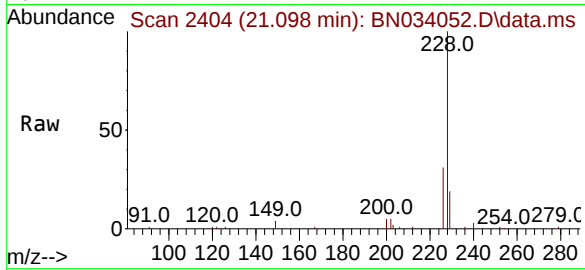
Tgt Ion:228 Resp: 26758

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.3 15.5 23.3



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.444 ng

RT: 21.017 min Scan# 2395

Delta R.T. 0.012 min

Lab File: BN034052.D

Acq: 19 Sep 2024 16:27

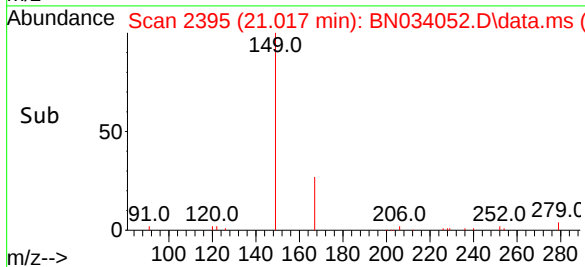
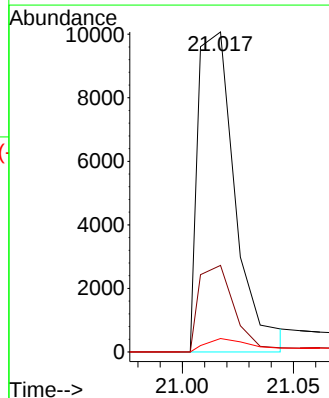
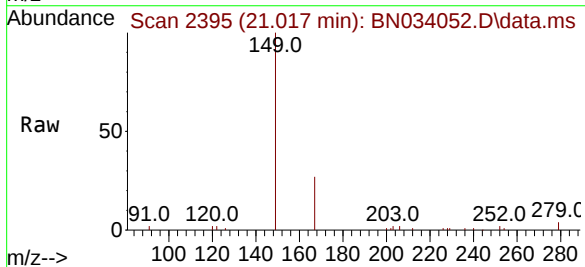
Tgt Ion:149 Resp: 10935

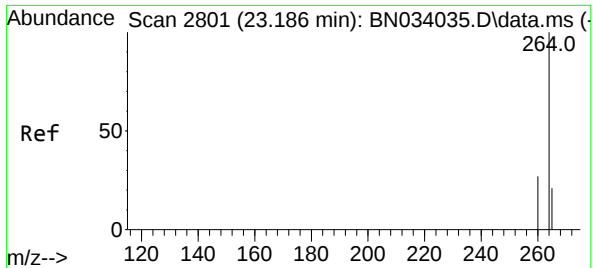
Ion Ratio Lower Upper

149 100

167 25.9 19.9 29.9

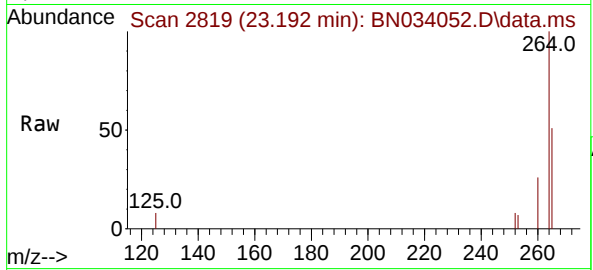
279 5.1 4.6 6.8



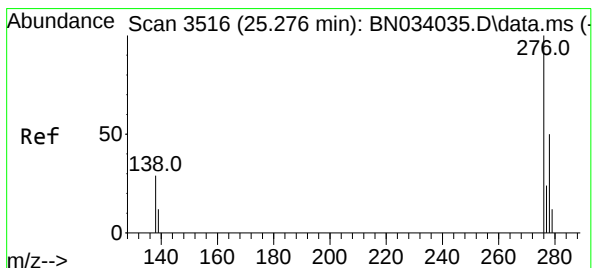
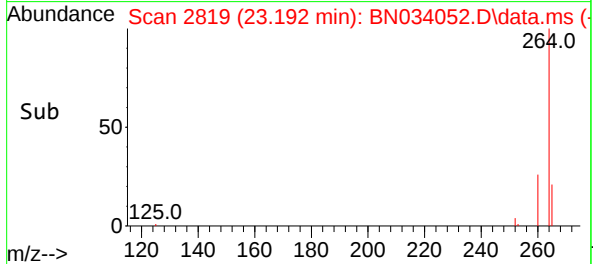
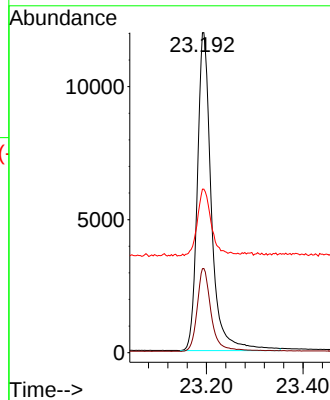


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.192 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

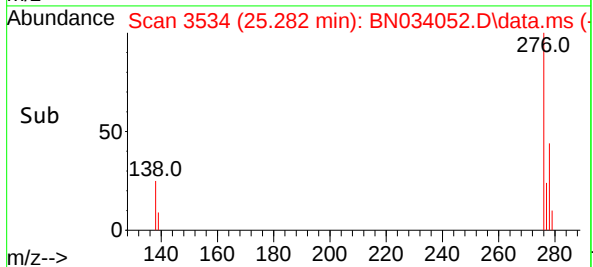
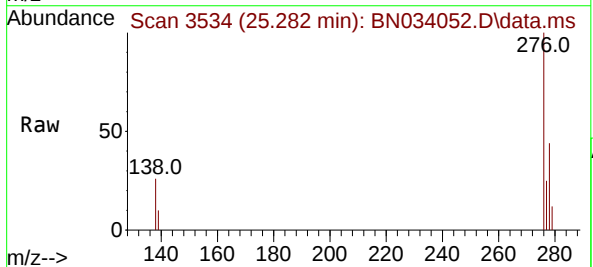
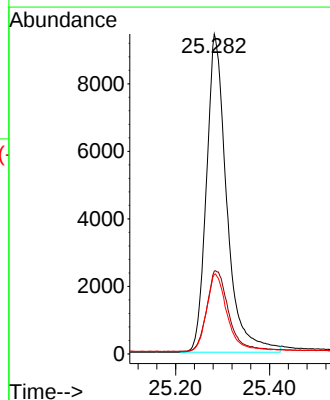


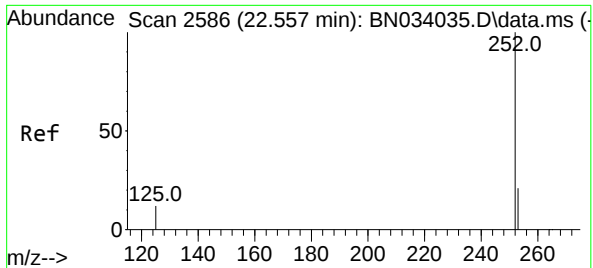
Tgt Ion:264 Resp: 24163
Ion Ratio Lower Upper
264 100
260 26.2 21.7 32.5
265 51.1 52.1 78.1#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.274 ng
RT: 25.282 min Scan# 3534
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:276 Resp: 28323
Ion Ratio Lower Upper
276 100
138 27.7 25.9 38.9
277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.392 ng

RT: 22.566 min Scan# 2605

Delta R.T. 0.009 min

Lab File: BN034052.D

Acq: 19 Sep 2024 16:27

Instrument :

BNA_N

ClientSampleId :

PB163341BS

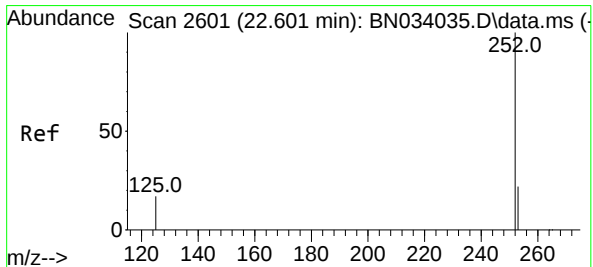
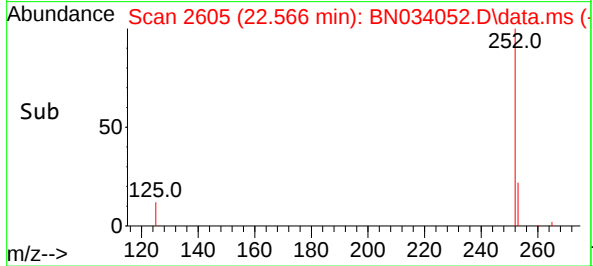
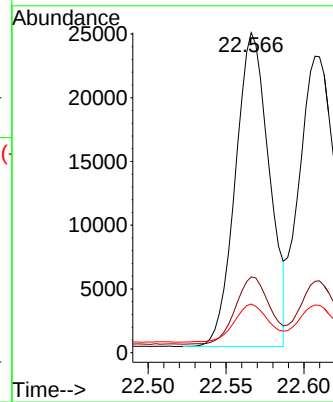
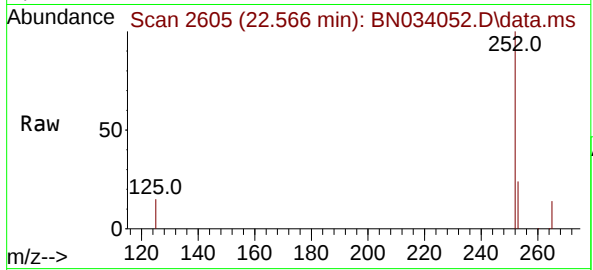
Tgt Ion:252 Resp: 37119

Ion Ratio Lower Upper

252 100

253 23.7 19.6 29.4

125 15.2 13.8 20.8



#38

Benzo(k)fluoranthene

Concen: 0.409 ng

RT: 22.607 min Scan# 2619

Delta R.T. 0.006 min

Lab File: BN034052.D

Acq: 19 Sep 2024 16:27

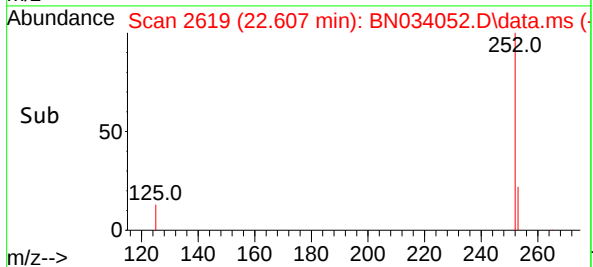
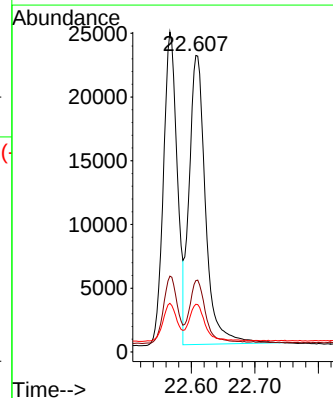
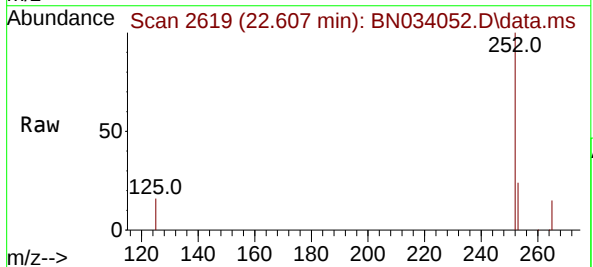
Tgt Ion:252 Resp: 40608

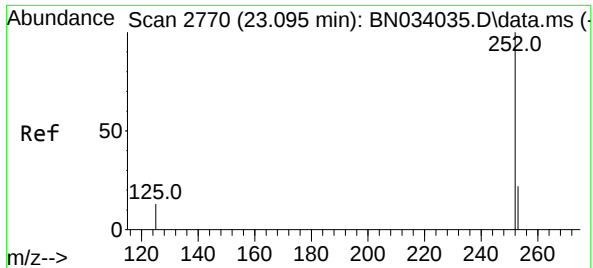
Ion Ratio Lower Upper

252 100

253 24.0 20.1 30.1

125 16.1 16.8 25.2#





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.101 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034052.D

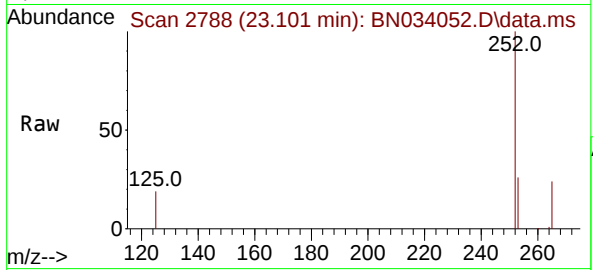
Acq: 19 Sep 2024 16:27

Instrument :

BNA_N

ClientSampleId :

PB163341BS



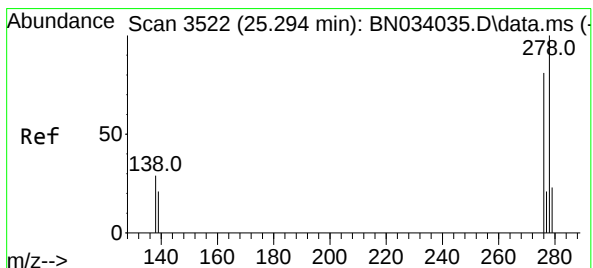
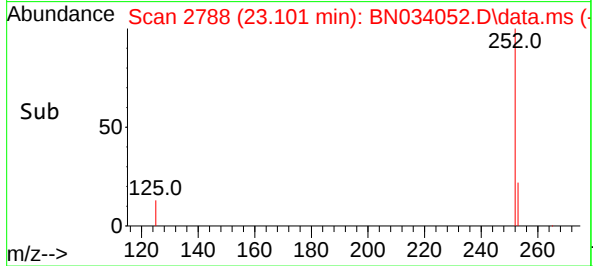
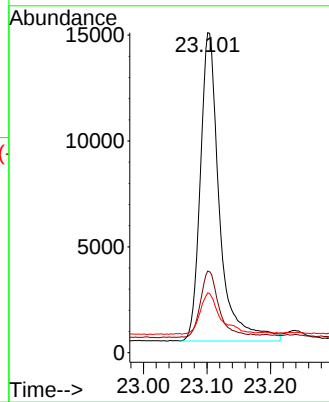
Tgt Ion:252 Resp: 30535

Ion Ratio Lower Upper

252 100

253 25.5 21.8 32.8

125 18.7 17.5 26.3



#40

Dibenzo(a,h)anthracene

Concen: 0.274 ng

RT: 25.300 min Scan# 3540

Delta R.T. 0.006 min

Lab File: BN034052.D

Acq: 19 Sep 2024 16:27

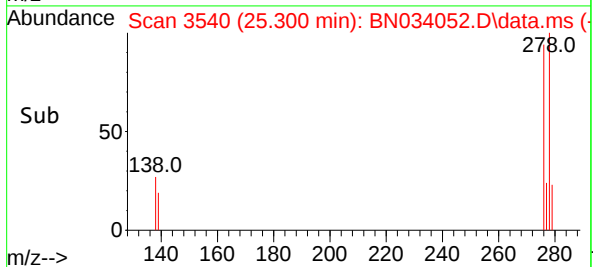
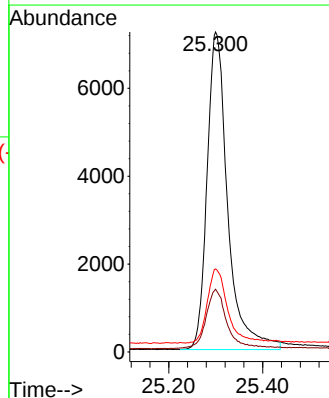
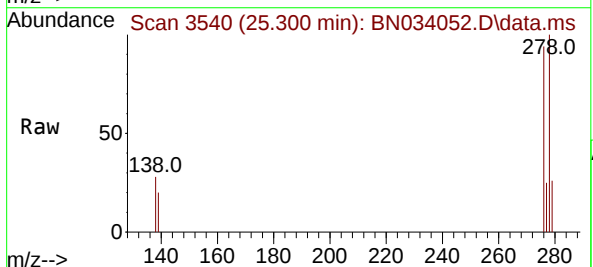
Tgt Ion:278 Resp: 22061

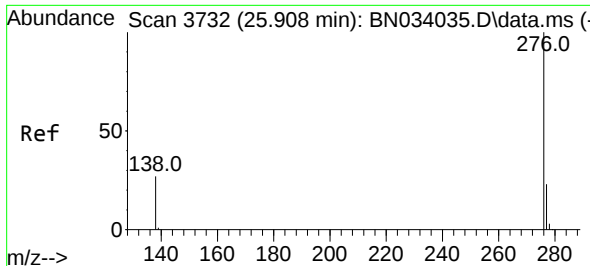
Ion Ratio Lower Upper

278 100

139 19.6 17.8 26.8

279 26.0 21.0 31.6





#41

Benzo(g,h,i)perylene

Concen: 0.274 ng

RT: 25.920 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN034052.D

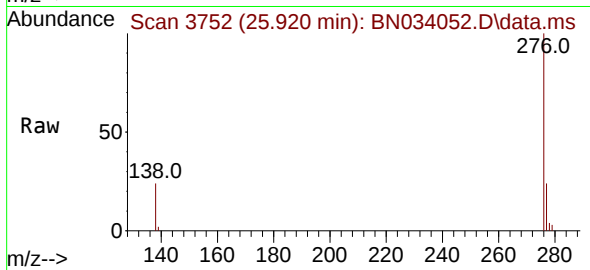
Acq: 19 Sep 2024 16:27

Instrument :

BNA_N

ClientSampleId :

PB163341BS



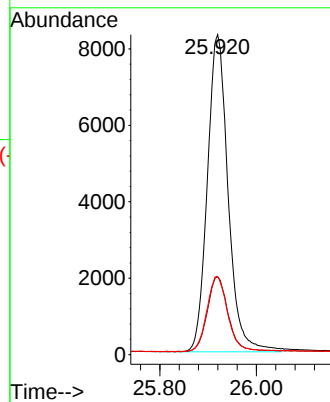
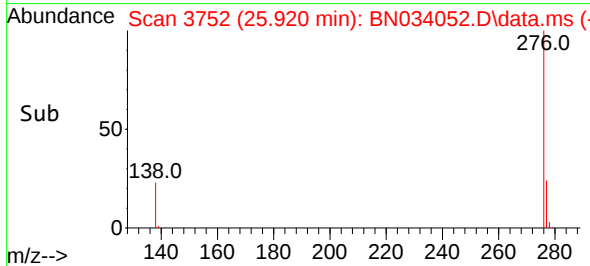
Tgt Ion:276 Resp: 24793

Ion Ratio Lower Upper

276 100

277 24.4 19.3 28.9

138 24.3 22.6 34.0



Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BSD	SDG No.:	P3845
Lab Sample ID:	PB163341BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034053.D	1	09/12/24 12:00	09/19/24 17:03	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.40		0.030	0.20	ug/L
87-68-3	Hexachlorobutadiene	0.39		0.030	0.10	ug/L
118-74-1	Hexachlorobenzene	0.42		0.030	0.10	ug/L
1912-24-9	Atrazine	0.34		0.020	0.10	ug/L
123-91-1	1,4-Dioxane	0.28		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		20 - 139	89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150	92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		27 - 123	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50		34 - 132	126%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		35 - 157	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6390		7.438		
1146-65-2	Naphthalene-d8	18900		10.191		
15067-26-2	Acenaphthene-d10	7690		14.083		
1517-22-2	Phenanthrene-d10	17000		16.833		
1719-03-5	Chrysene-d12	13200		21.062		
1520-96-3	Perylene-d12	12100		23.189		

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\BN091924\
Data File : BN034053.D
Acq On : 19 Sep 2024 17:03
Operator : JU/RC
Sample : PB163341BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Quant Time: Sep 19 17:59:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

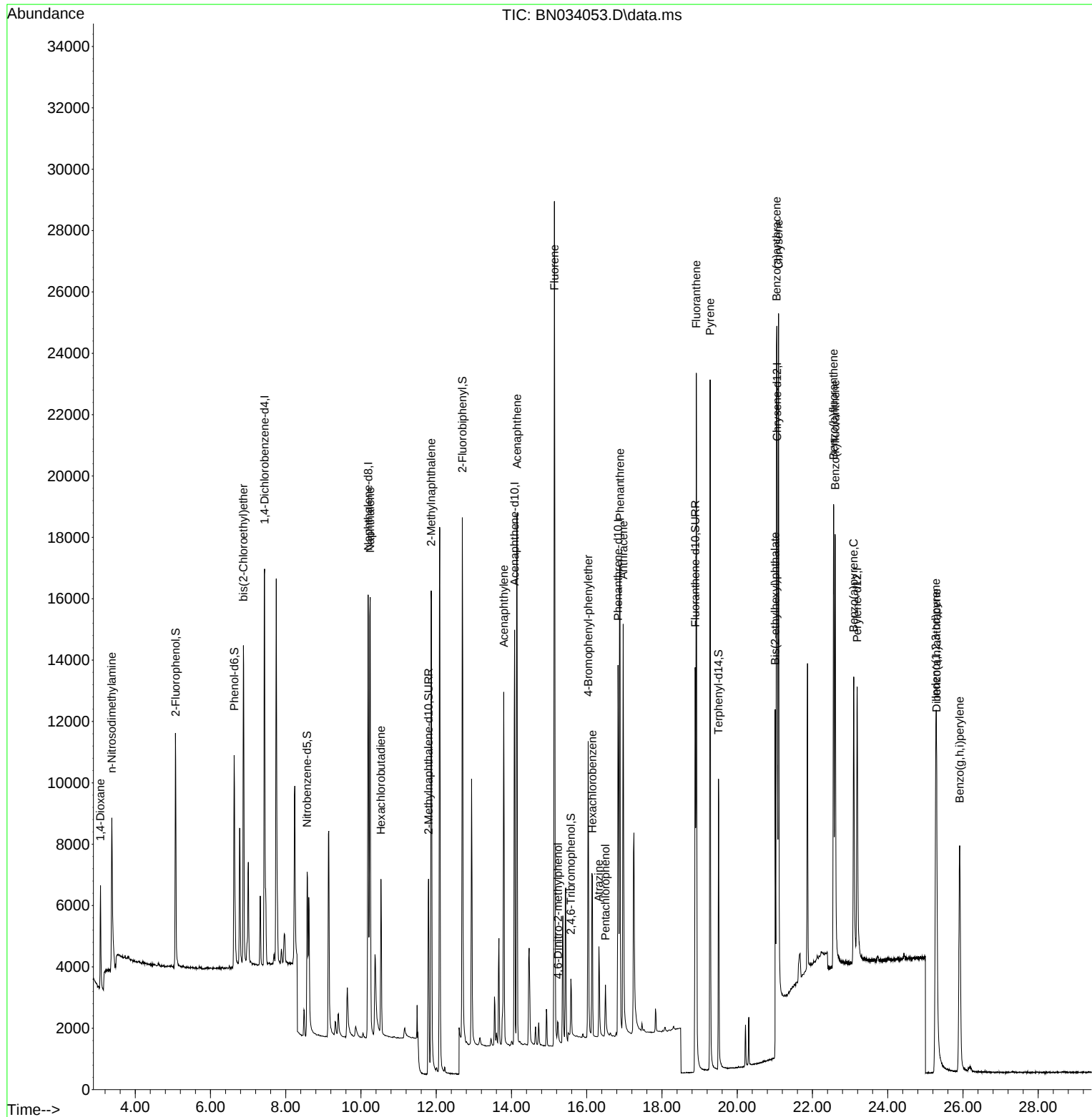
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	6385	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	18900	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	7692	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	17049	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	13235	0.400	ng	# 0.00
35) Perylene-d12	23.189	264	12101	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	6041	0.333	ng	0.00
5) Phenol-d6	6.629	99	6664	0.316	ng	0.00
8) Nitrobenzene-d5	8.568	82	5201	0.360	ng	0.00
11) 2-Methylnaphthalene-d10	11.795	152	9946	0.356	ng	0.00
14) 2,4,6-Tribromophenol	15.580	330	1195	0.343	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	15724	0.503	ng	0.00
27) Fluoranthene-d10	18.885	212	15813	0.368	ng	0.00
31) Terphenyl-d14	19.503	244	9957	0.377	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.076	88	2213	0.277	ng	99
3) n-Nitrosodimethylamine	3.379	42	3596	0.396	ng	# 85
6) bis(2-Chloroethyl)ether	6.874	93	7319	0.392	ng	99
9) Naphthalene	10.244	128	19961	0.385	ng	99
10) Hexachlorobutadiene	10.532	225	3838	0.393	ng	# 98
12) 2-Methylnaphthalene	11.867	142	12581	0.373	ng	99
16) Acenaphthylene	13.795	152	12252	0.372	ng	100
17) Acenaphthene	14.147	154	8885	0.376	ng	99
18) Fluorene	15.142	166	11814	0.381	ng	100
20) 4,6-Dinitro-2-methylph...	15.238	198	659	0.346	ng	# 74
21) 4-Bromophenyl-phenylether	16.039	248	3577	0.373	ng	# 74
22) Hexachlorobenzene	16.151	284	4461	0.415	ng	99
23) Atrazine	16.324	200	2693	0.339	ng	# 94
24) Pentachlorophenol	16.498	266	997	0.281	ng	99
25) Phenanthrene	16.883	178	18179	0.371	ng	100
26) Anthracene	16.970	178	14776	0.370	ng	99
28) Fluoranthene	18.913	202	20987	0.370	ng	98
30) Pyrene	19.280	202	21143	0.378	ng	100
32) Benzo(a)anthracene	21.044	228	15285	0.365	ng	100
33) Chrysene	21.098	228	18880	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	6364	0.365	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.276	276	16791	0.324	ng	94
37) Benzo(b)fluoranthene	22.560	252	17560	0.370	ng	97
38) Benzo(k)fluoranthene	22.601	252	19268	0.387	ng	# 94
39) Benzo(a)pyrene	23.095	252	14364	0.372	ng	96
40) Dibenzo(a,h)anthracene	25.300	278	12898	0.320	ng	96
41) Benzo(g,h,i)perylene	25.911	276	15023	0.332	ng	95

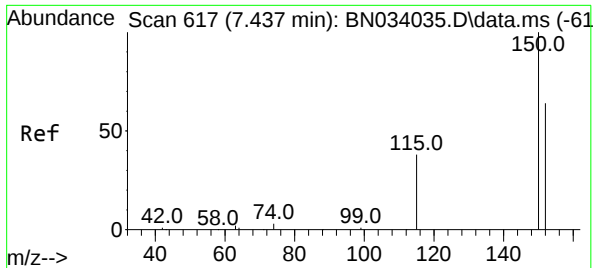
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034053.D
Acq On : 19 Sep 2024 17:03
Operator : JU/RC
Sample : PB163341BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Quant Time: Sep 19 17:59:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

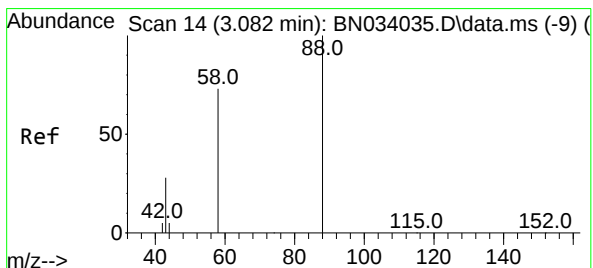
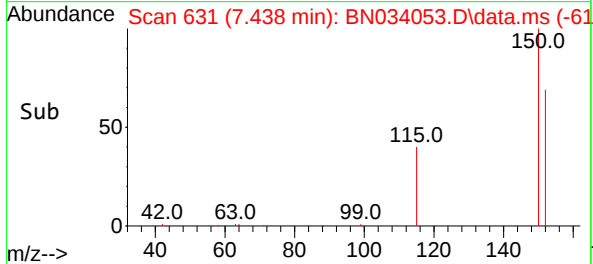
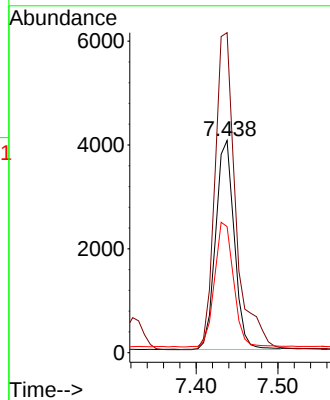
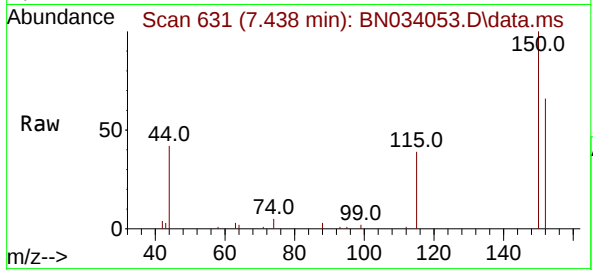




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

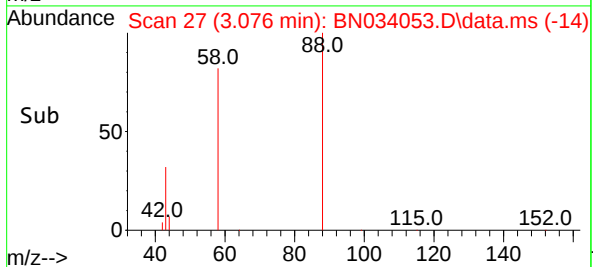
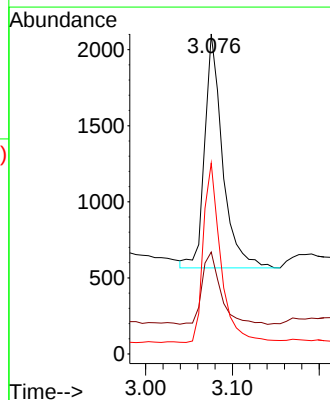
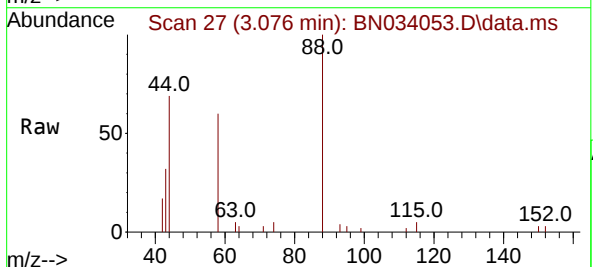
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

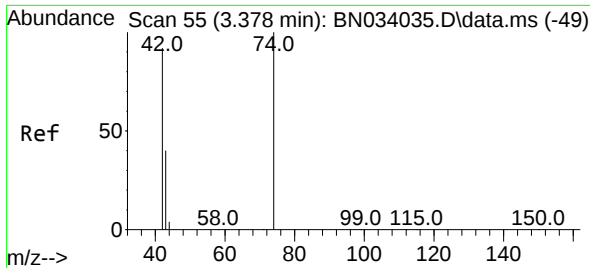
Tgt Ion:152 Resp: 6385
Ion Ratio Lower Upper
152 100
150 150.8 124.6 187.0
115 59.4 50.0 75.0



#2
1,4-Dioxane
Concen: 0.277 ng
RT: 3.076 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 88 Resp: 2213
Ion Ratio Lower Upper
88 100
43 31.6 25.8 38.8
58 74.8 58.8 88.2

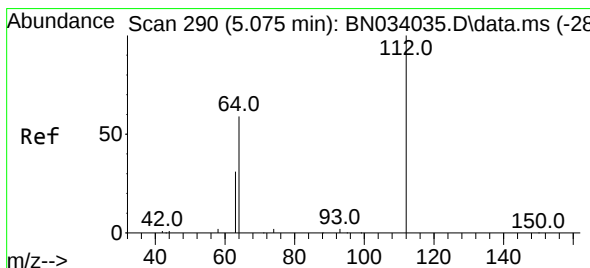
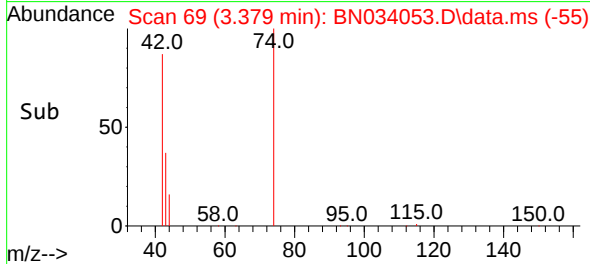
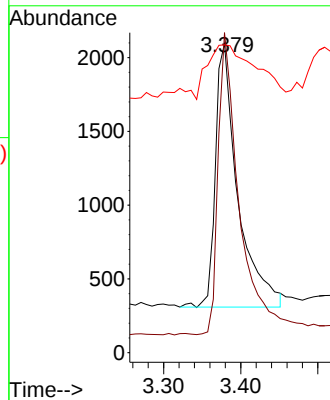
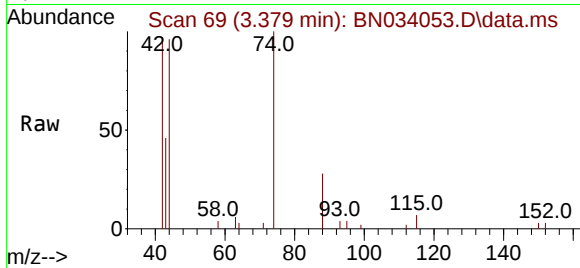




#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.379 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

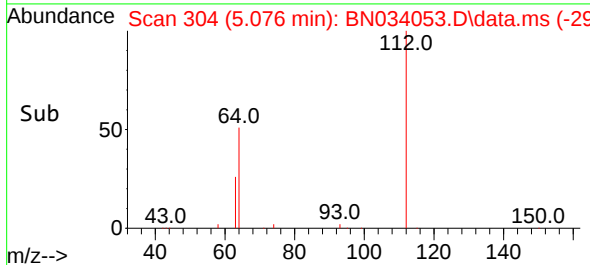
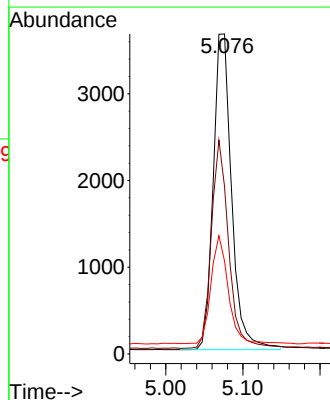
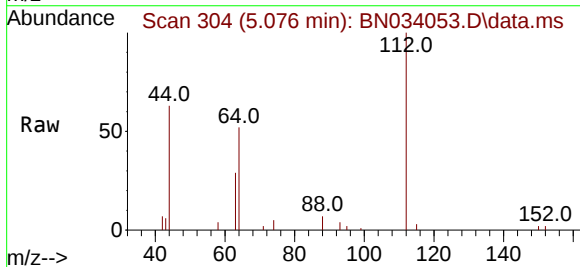
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

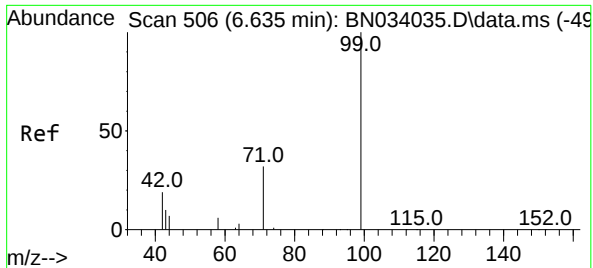
Tgt Ion: 42 Resp: 3596
Ion Ratio Lower Upper
42 100
74 107.3 94.6 142.0
44 37.1 12.4 18.6#



#4
2-Fluorophenol
Concen: 0.333 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 112 Resp: 6041
Ion Ratio Lower Upper
112 100
64 61.6 48.6 72.8
63 31.7 25.6 38.4

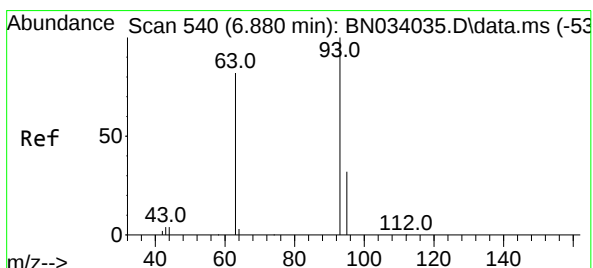
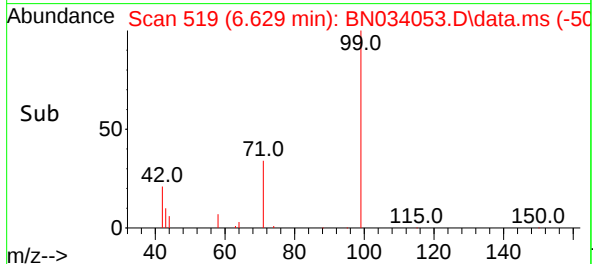
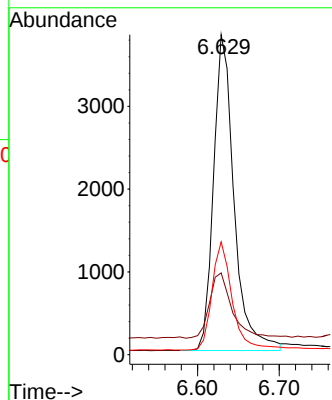
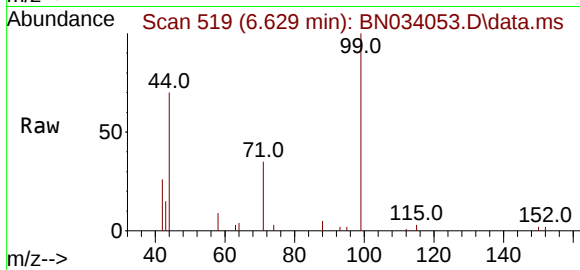




#5
Phenol-d6
Concen: 0.316 ng
RT: 6.629 min Scan# 519
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

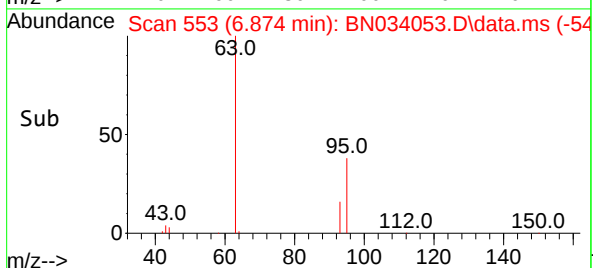
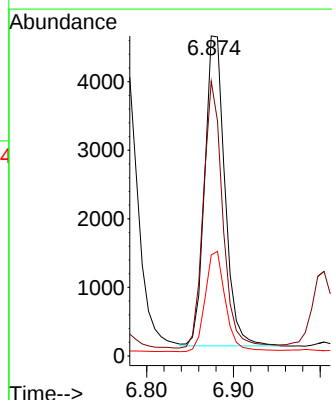
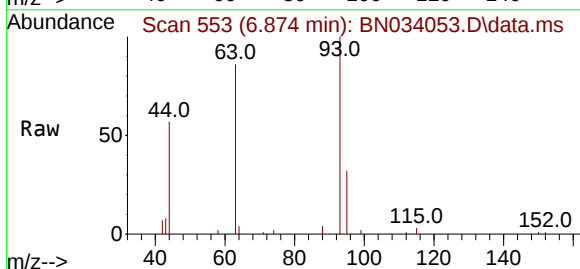
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

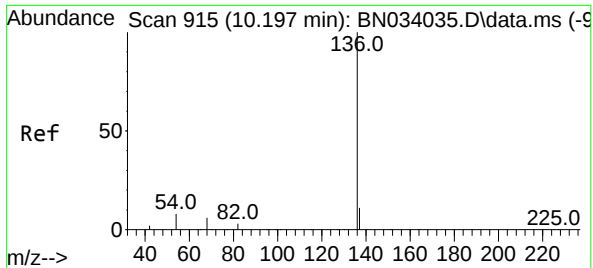
Tgt Ion: 99 Resp: 6664
Ion Ratio Lower Upper
99 100
42 22.7 17.8 26.8
71 33.9 26.2 39.2



#6
bis(2-Chloroethyl)ether
Concen: 0.392 ng
RT: 6.874 min Scan# 553
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 93 Resp: 7319
Ion Ratio Lower Upper
93 100
63 83.2 67.3 100.9
95 32.6 26.8 40.2

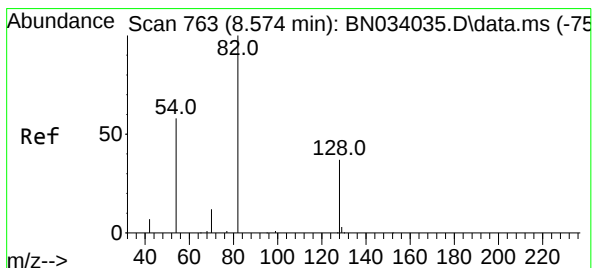
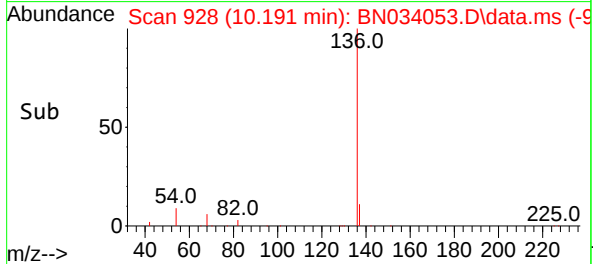
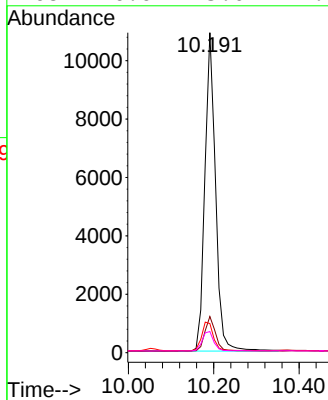
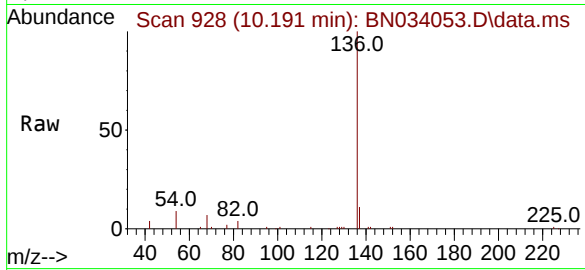




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 915
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

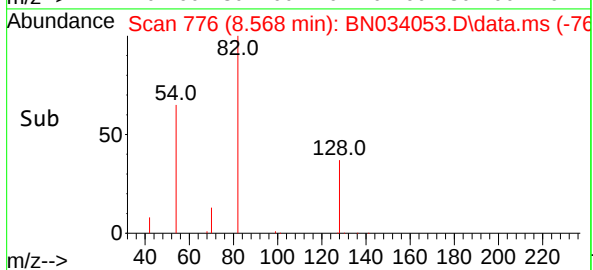
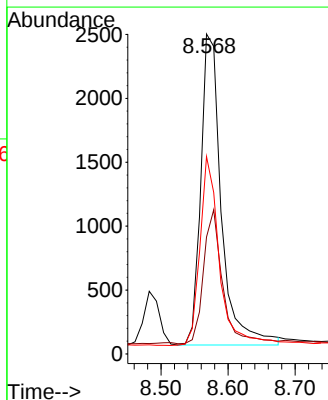
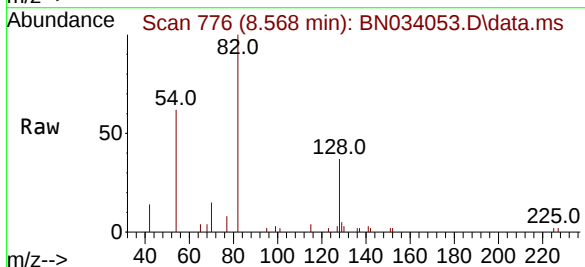
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

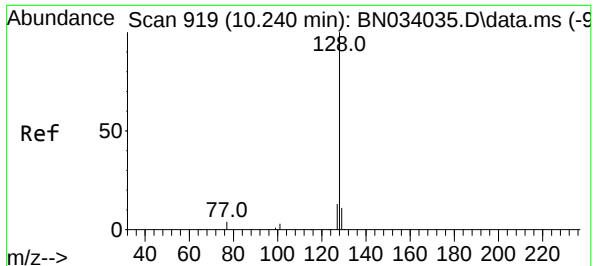
Tgt Ion:	136	Resp:	18900
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	9.1	6.8	10.2
68	6.6	5.0	7.6



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:	82	Resp:	5201
Ion	Ratio	Lower	Upper
82	100		
128	36.5	31.4	47.2
54	61.7	47.4	71.0

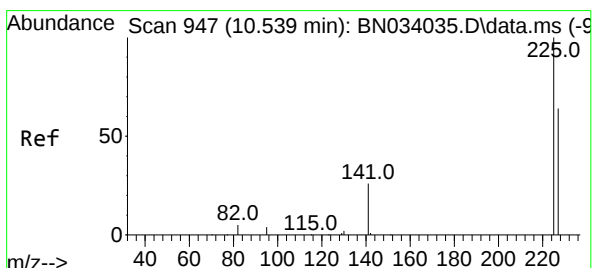
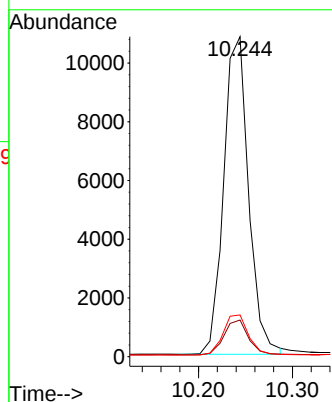
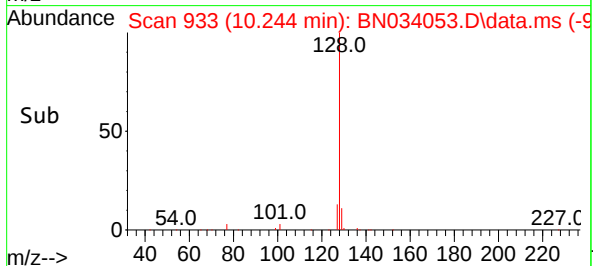
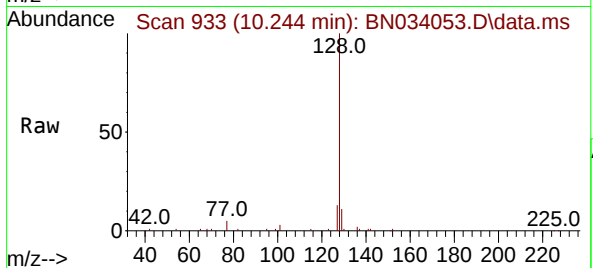




#9
Naphthalene
Concen: 0.385 ng
RT: 10.244 min Scan# 919
Delta R.T. 0.005 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

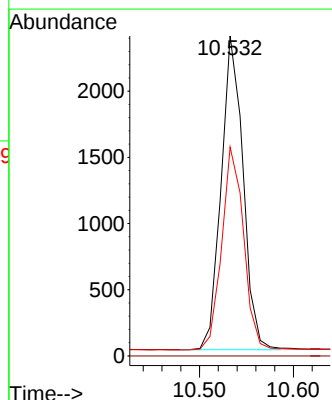
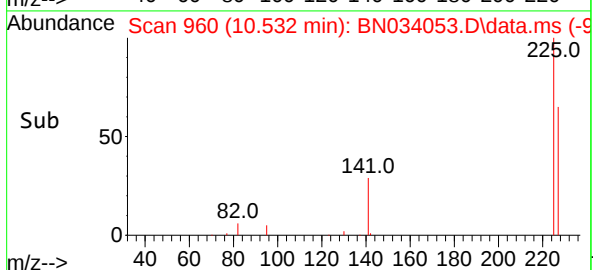
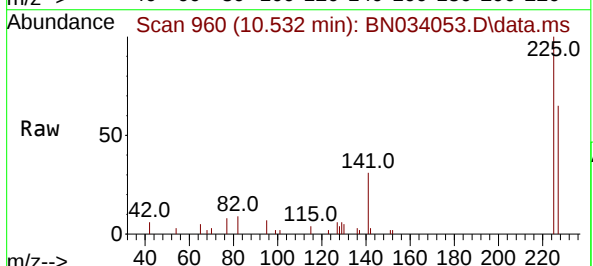
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

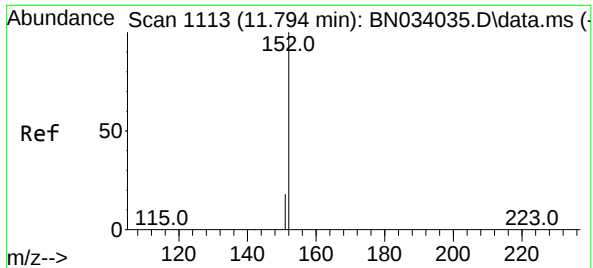
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	10.7	16.1



#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.5	75.7

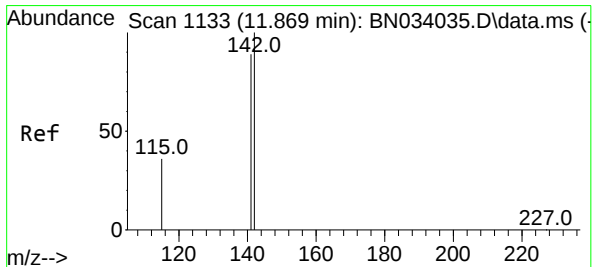
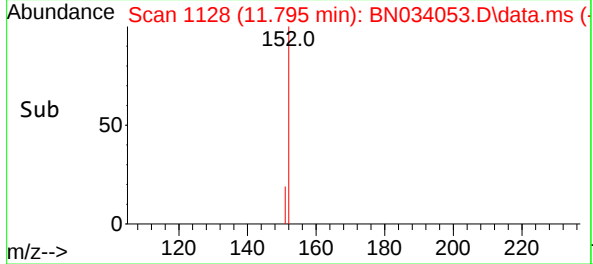
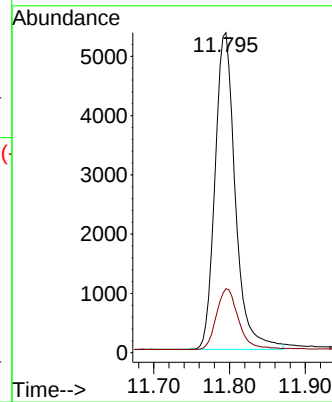
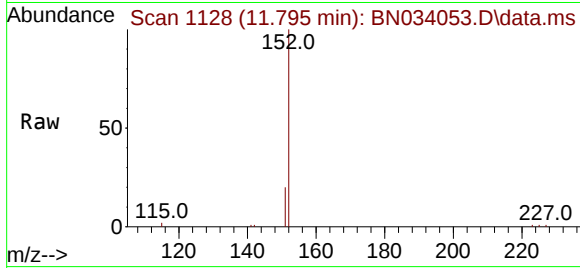




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.795 min Scan# 1113
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

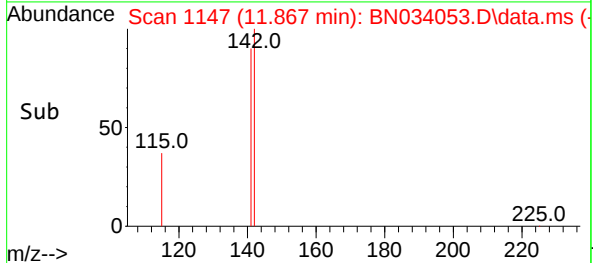
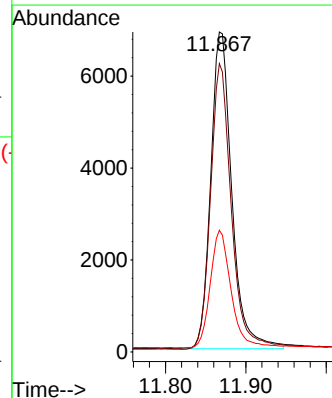
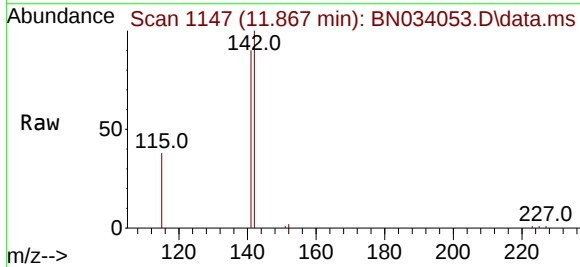
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

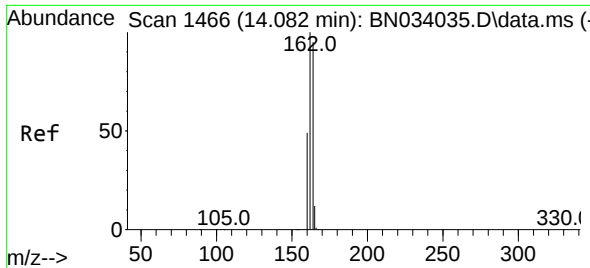
Tgt Ion:152 Resp: 9946
Ion Ratio Lower Upper
152 100
151 21.0 16.8 25.2



#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:142 Resp: 12581
Ion Ratio Lower Upper
142 100
141 90.1 71.6 107.4
115 38.0 30.0 45.0

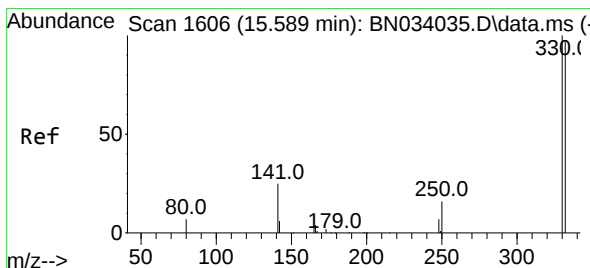
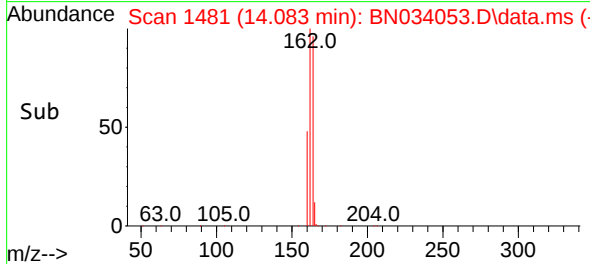
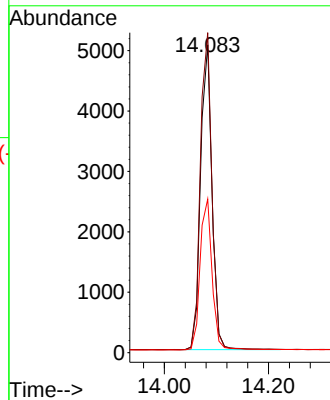
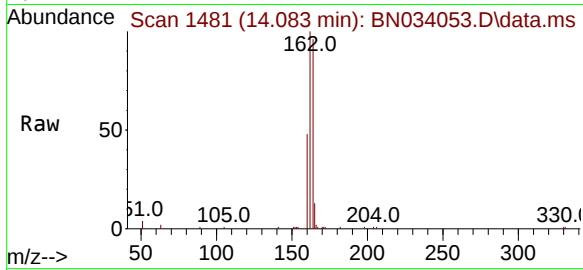




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

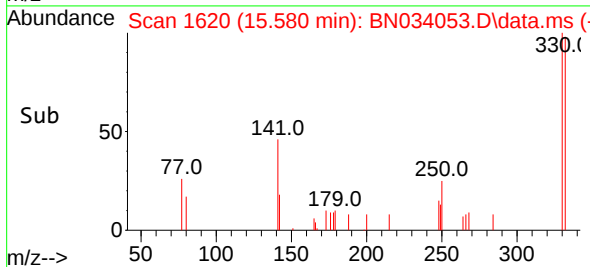
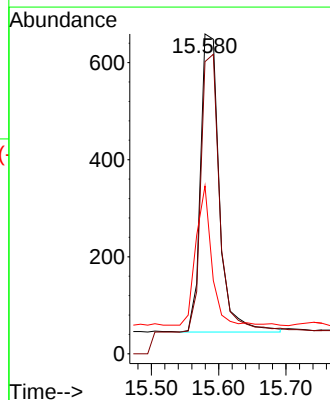
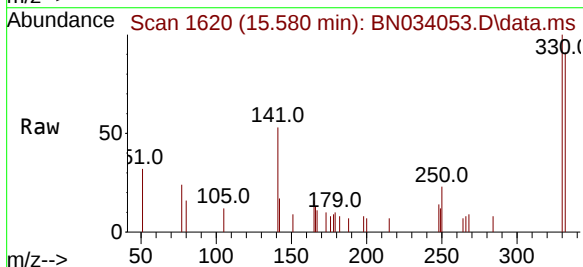
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BNA_N
ClientSampleId :
PB163341BSD

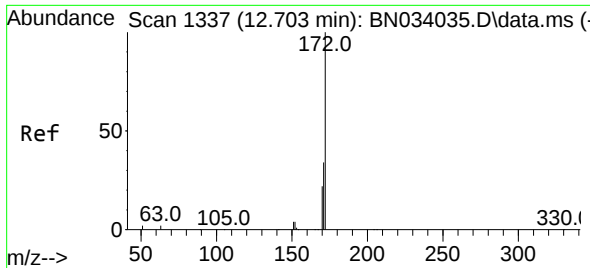
Tgt Ion	164	Resp	7692
Ion Ratio	Lower	Upper	
164	100		
162	103.9	84.2	126.2
160	49.9	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 0.343 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	330	Resp	1195
Ion Ratio	Lower	Upper	
330	100		
332	93.0	77.4	116.0
141	39.2	35.9	53.9

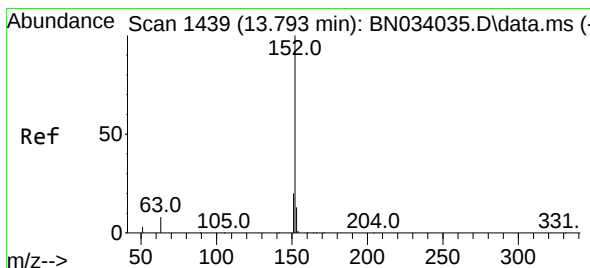
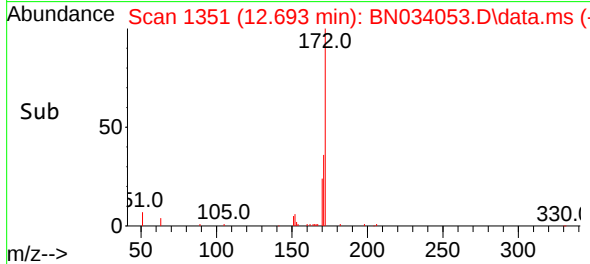
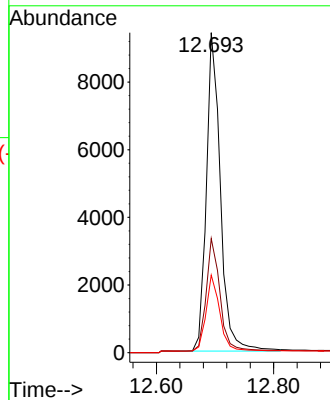
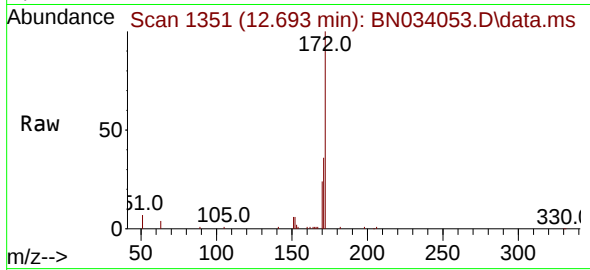




#15
2-Fluorobiphenyl
Concen: 0.503 ng
RT: 12.693 min Scan# 11
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

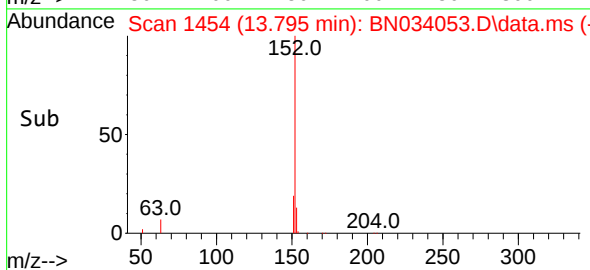
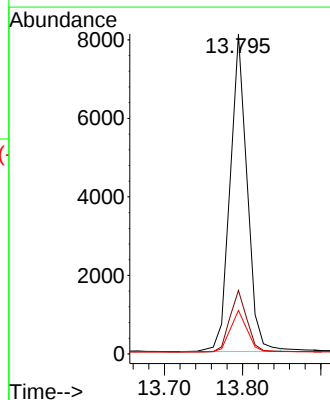
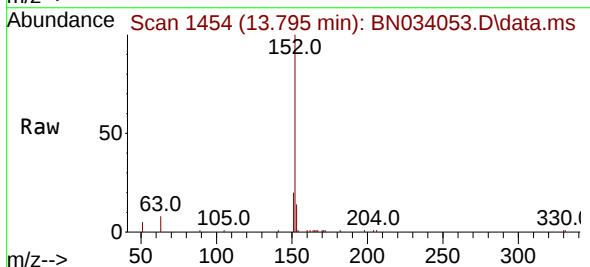
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

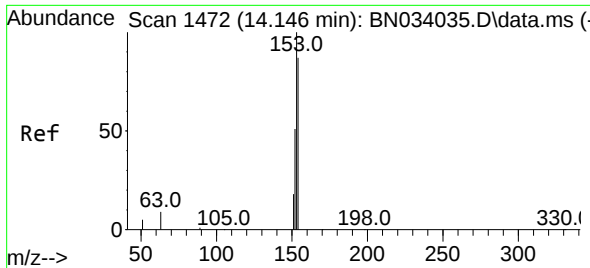
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	27.3	40.9
170	24.3	18.1	27.1



#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.3	15.5

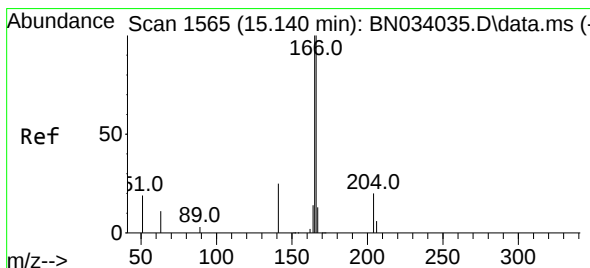
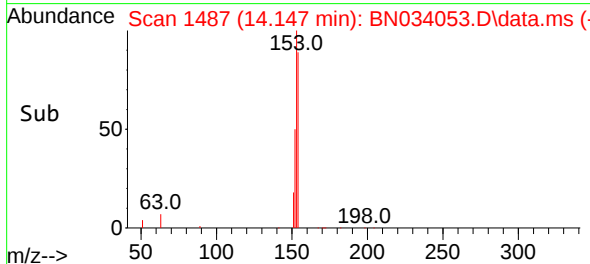
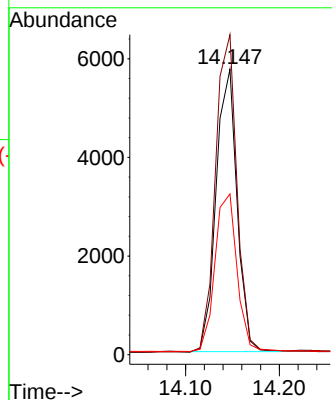
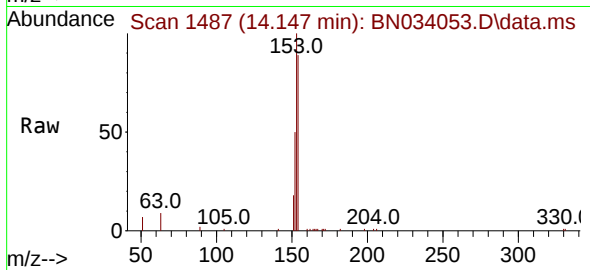




#17
Acenaphthene
Concen: 0.376 ng
RT: 14.147 min Scan# 1472
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

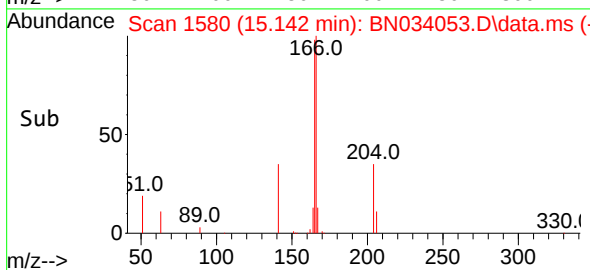
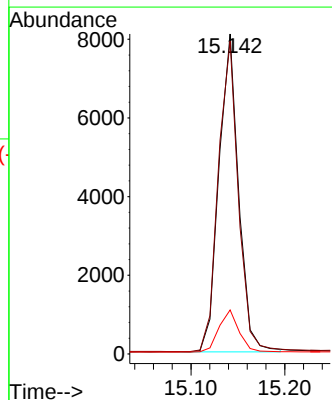
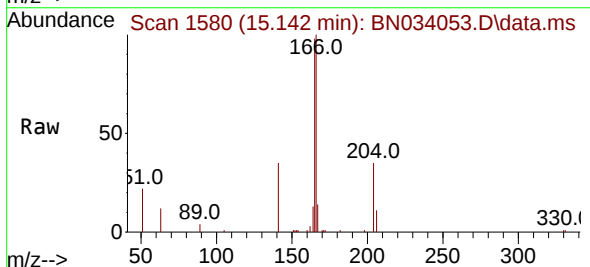
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

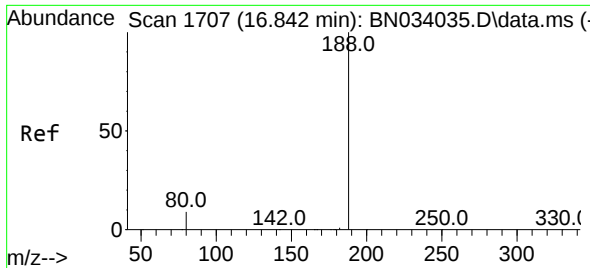
Tgt Ion	Ratio	Lower	Upper
154	100		
153	115.1	91.6	137.4
152	58.9	47.4	71.2



#18
Fluorene
Concen: 0.381 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.1	118.7
167	13.4	10.6	15.8

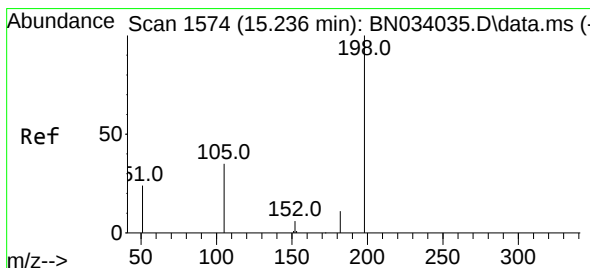
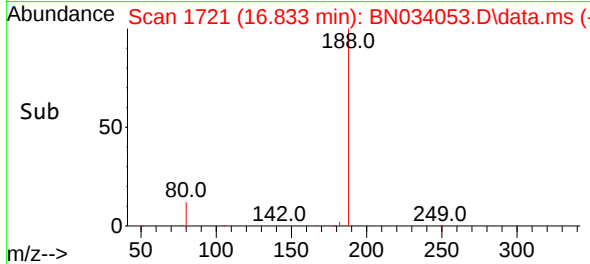
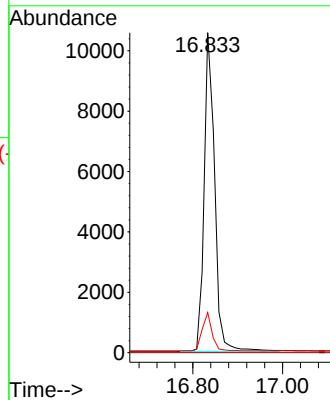
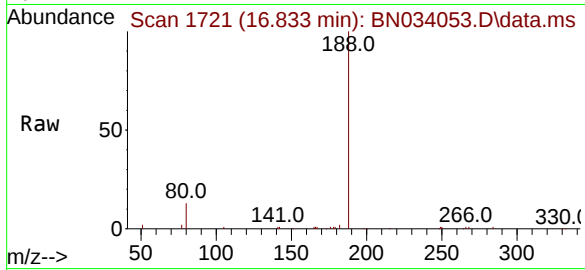




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 17049
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

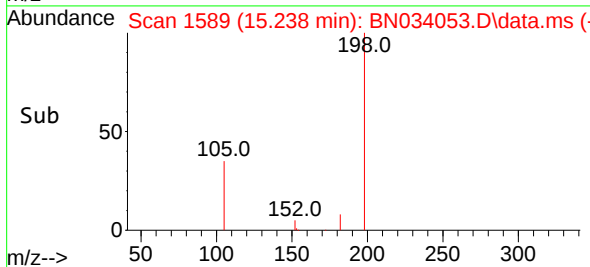
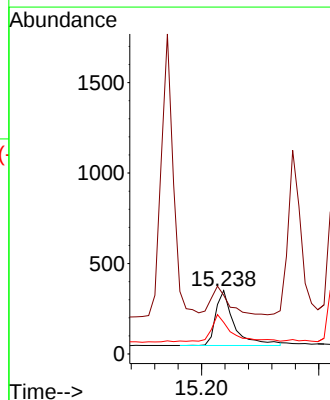
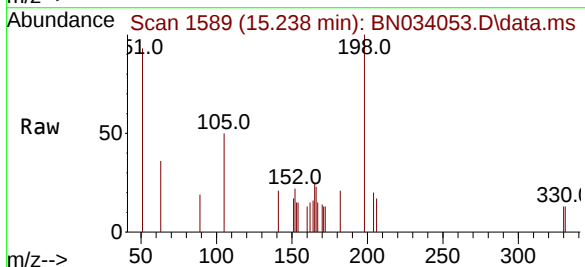
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

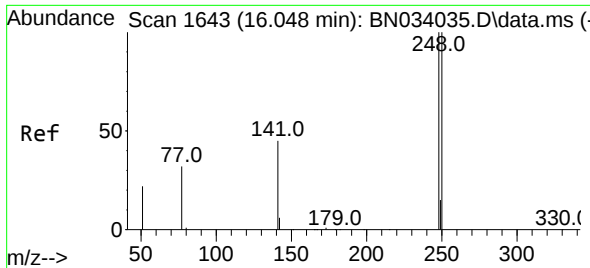
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	7.4	11.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
198	100		
51	92.9	106.4	159.6
105	49.7	38.5	57.7

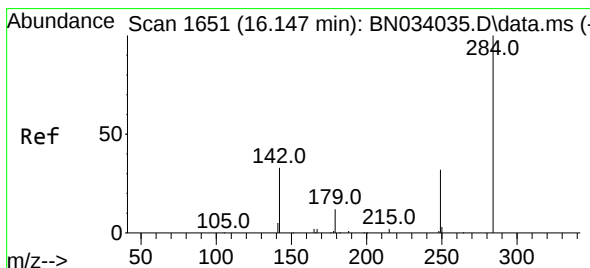
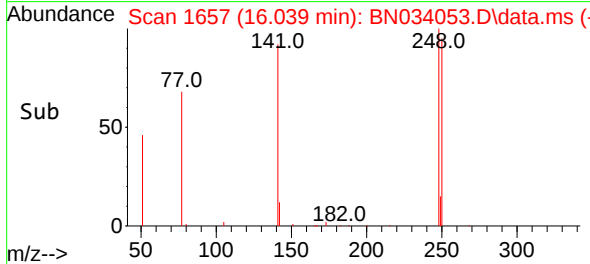
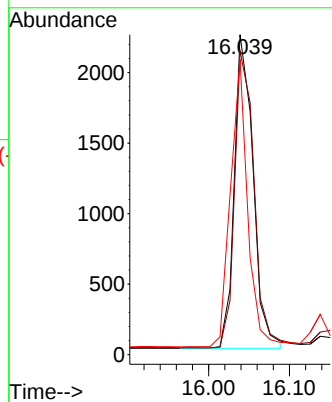
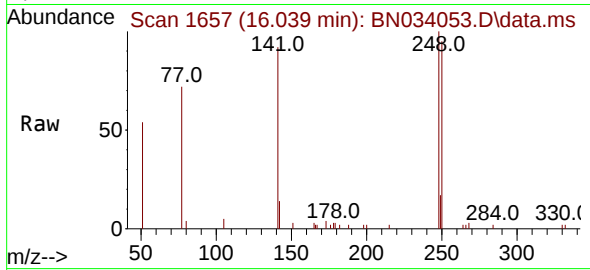




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.039 min Scan# 1666
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

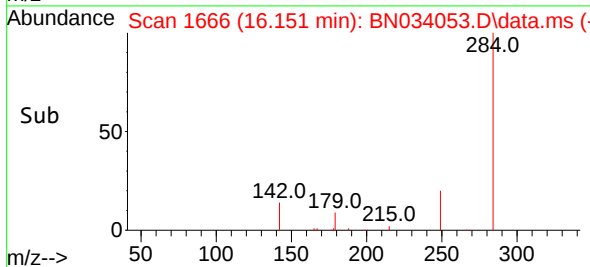
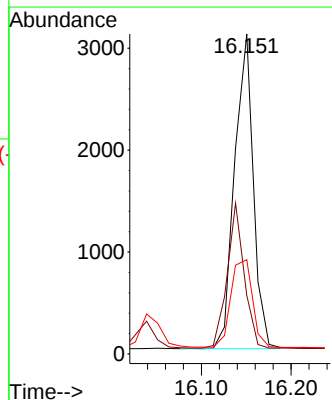
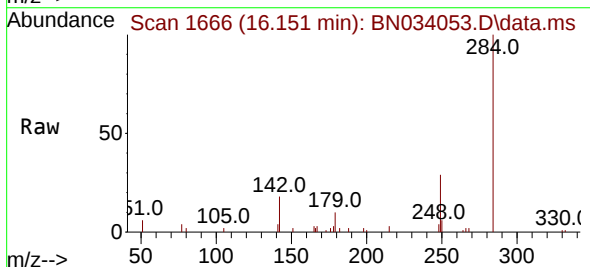
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

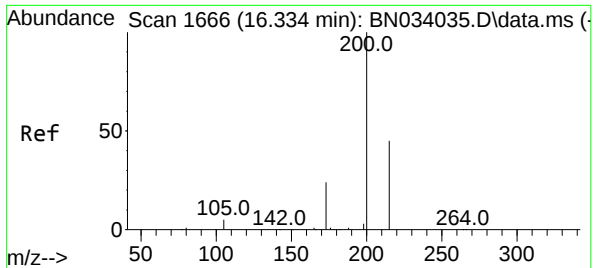
Tgt Ion:248 Resp: 3577
Ion Ratio Lower Upper
248 100
250 94.9 80.5 120.7
141 92.3 37.1 55.7#



#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.151 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:284 Resp: 4461
Ion Ratio Lower Upper
284 100
142 41.8 34.5 51.7
249 32.1 25.8 38.6

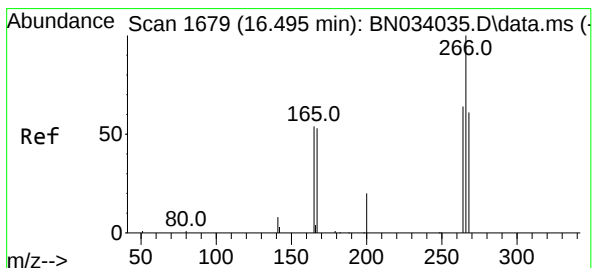
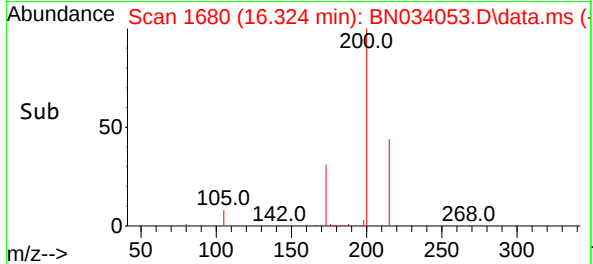
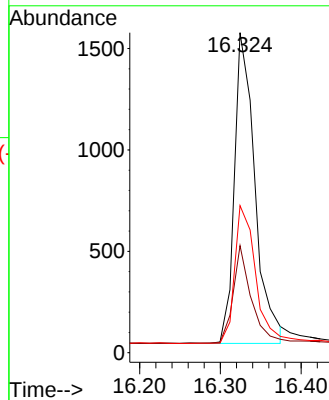
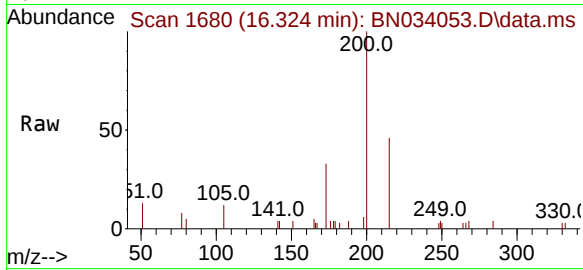




#23
Atrazine
Concen: 0.339 ng
RT: 16.324 min Scan# 1680
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

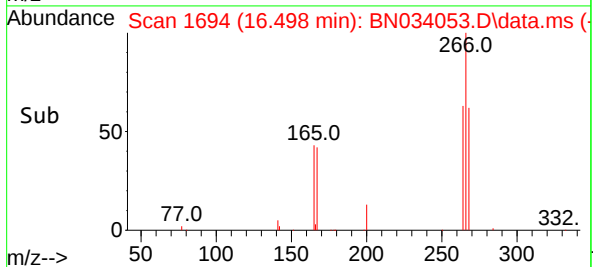
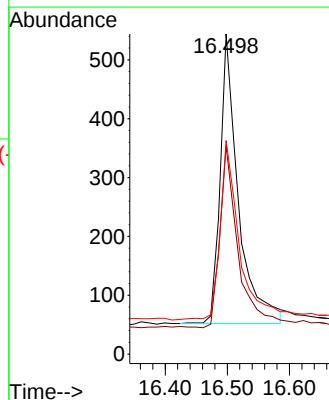
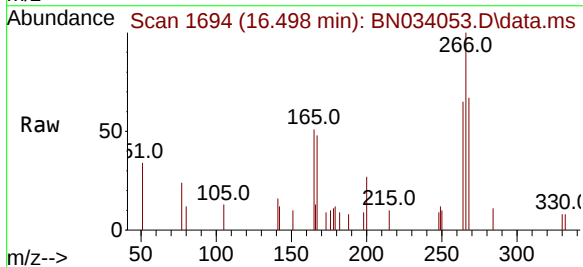
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

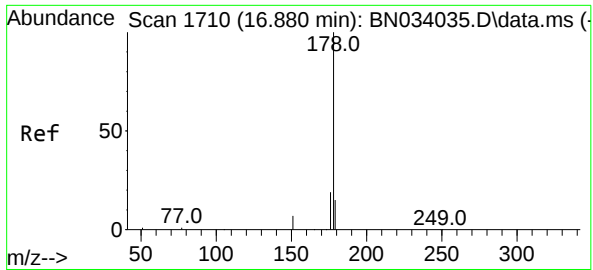
Tgt Ion	Ratio	Lower	Upper
200	100		
173	33.5	20.1	30.1
215	45.9	37.0	55.6



#24
Pentachlorophenol
Concen: 0.281 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.2	75.2
268	65.1	51.0	76.4

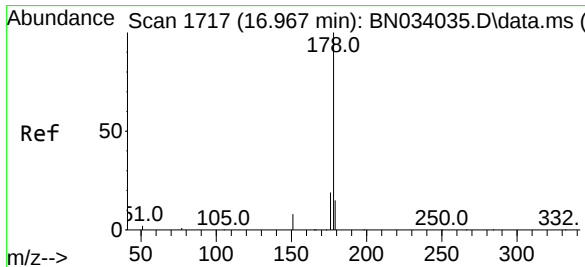
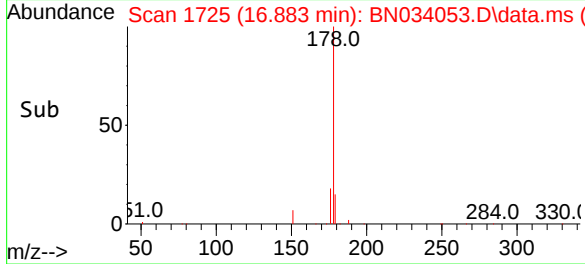
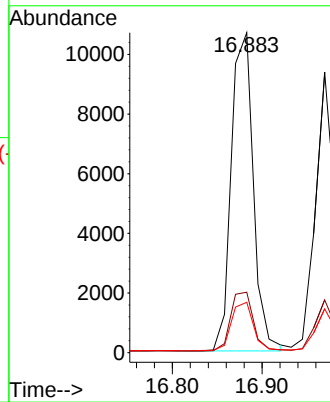
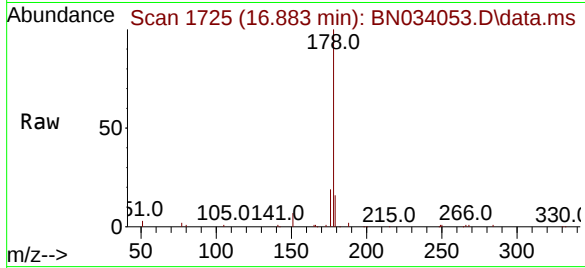




#25
Phenanthrene
Concen: 0.371 ng
RT: 16.883 min Scan# 1710
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

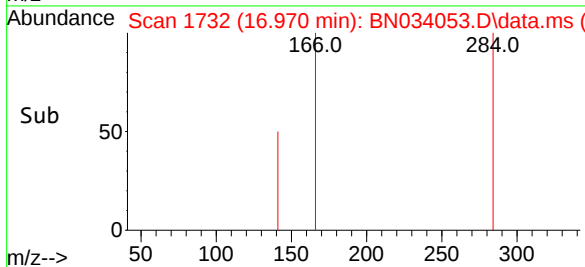
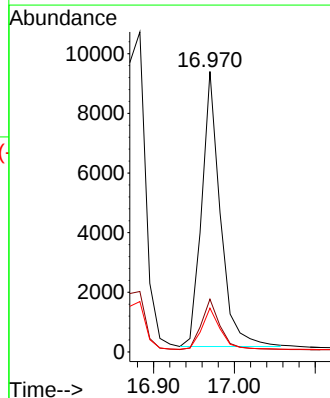
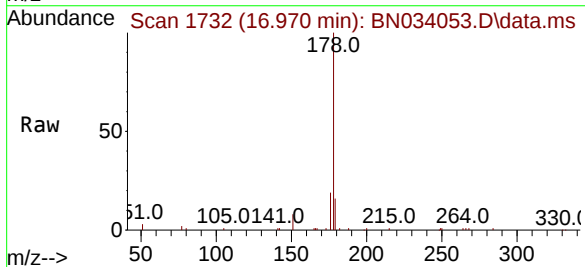
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

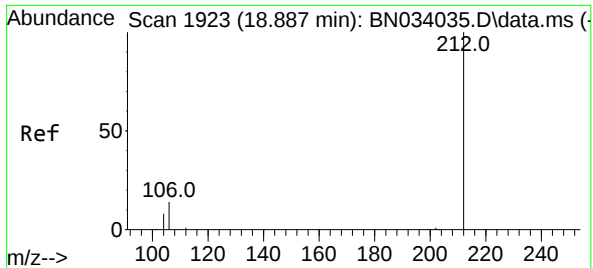
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1



#26
Anthracene
Concen: 0.370 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.0	12.2	18.4

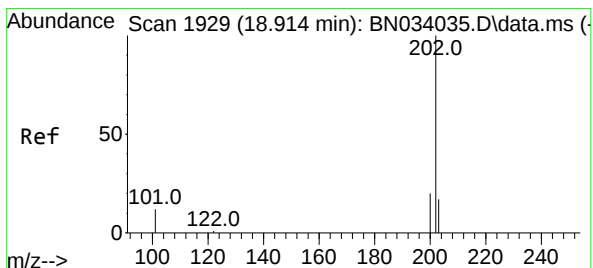
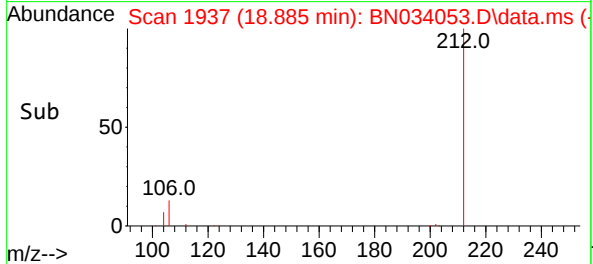
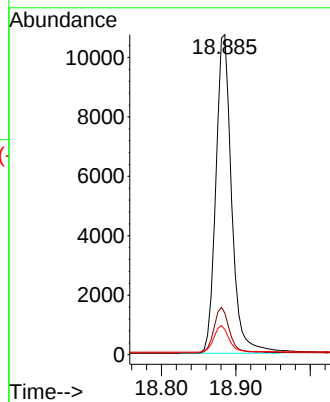
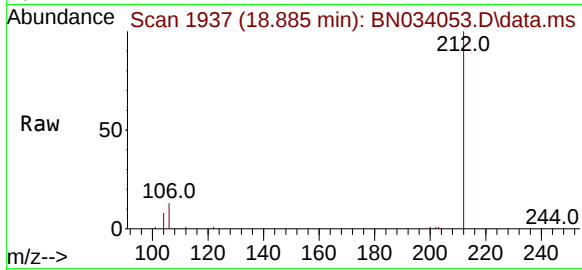




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 18.885 min Scan# 1923
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

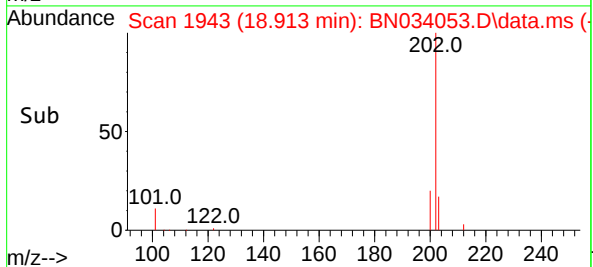
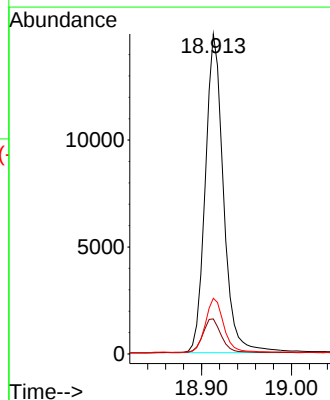
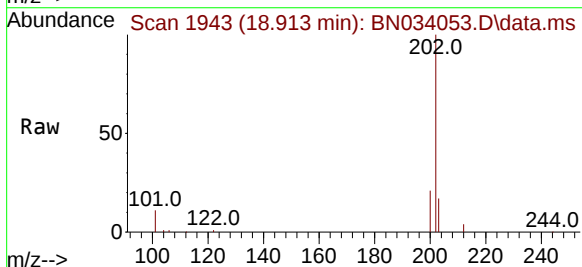
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

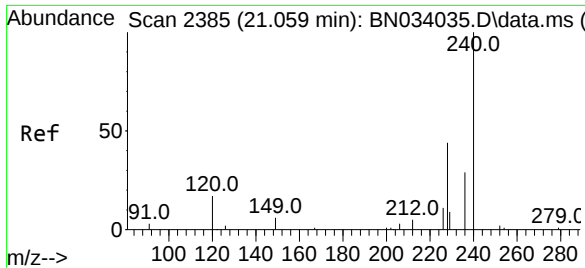
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.3	13.4	20.2
104	8.1	7.8	11.6



#28
Fluoranthene
Concen: 0.370 ng
RT: 18.913 min Scan# 1943
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.1	15.1
203	17.1	13.6	20.4

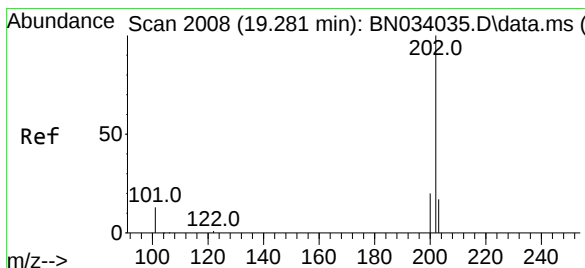
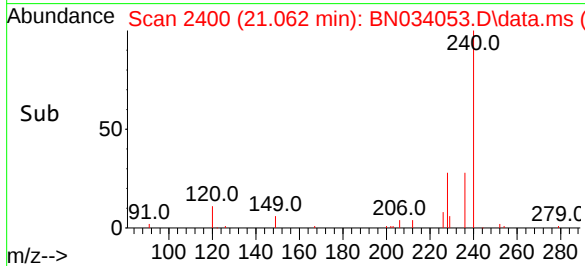
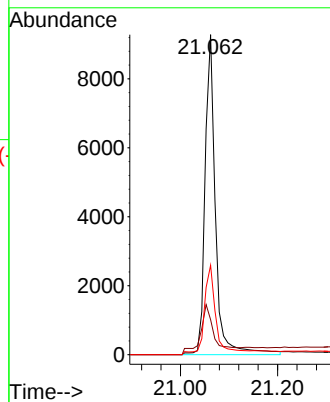
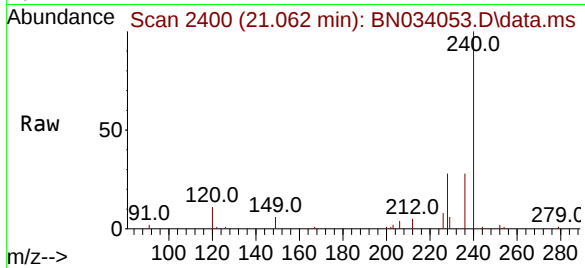




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

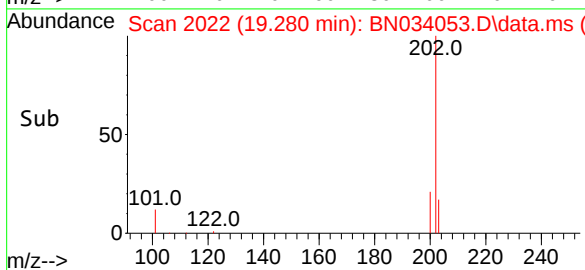
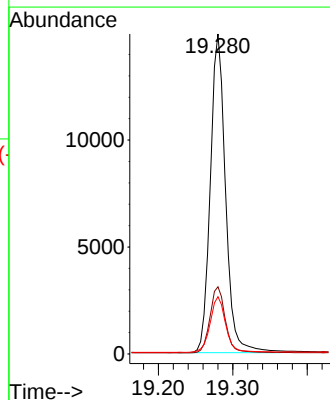
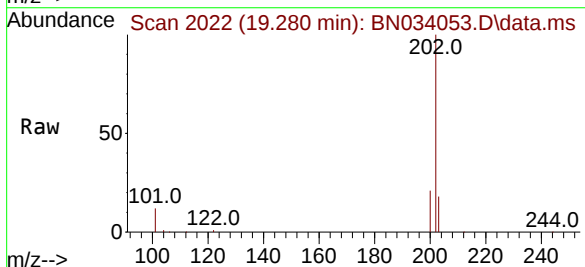
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

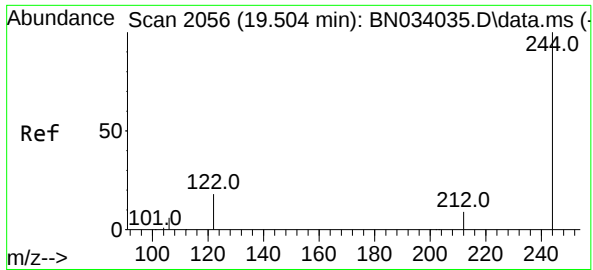
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.0	13.5	20.3#
236	27.9	23.4	35.0



#30
Pyrene
Concen: 0.378 ng
RT: 19.280 min Scan# 2022
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.9	14.3	21.5

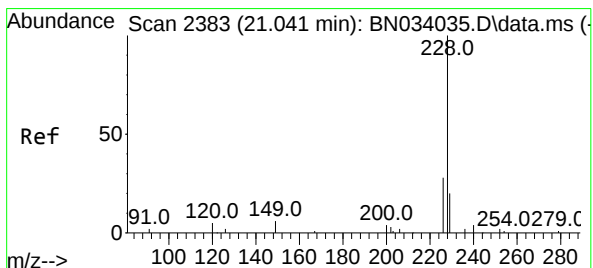
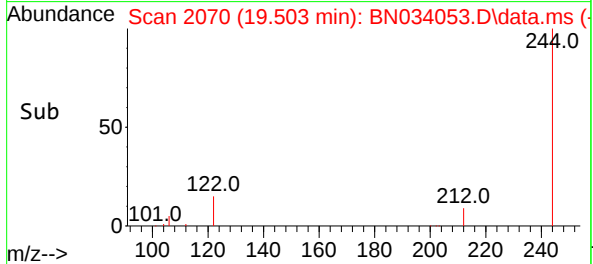
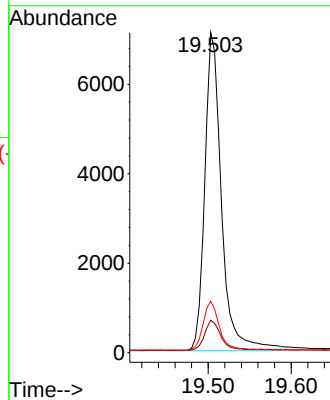
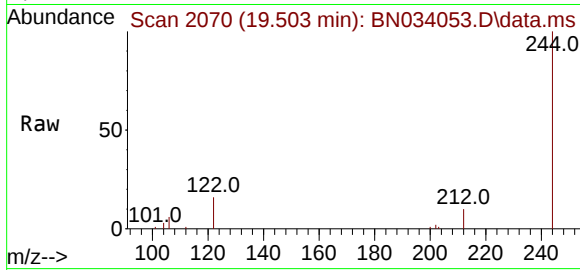




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.503 min Scan# 2056
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

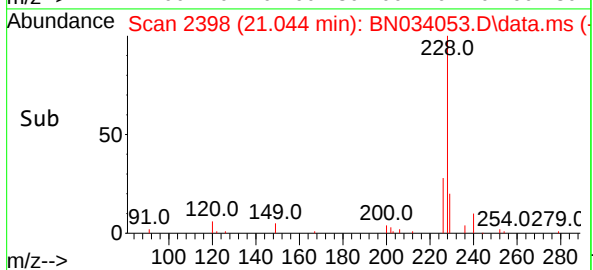
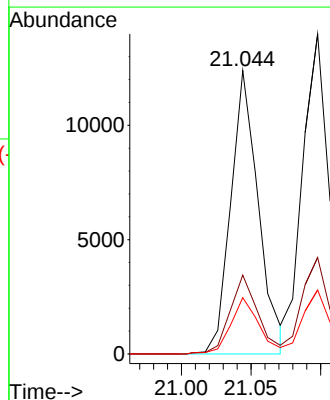
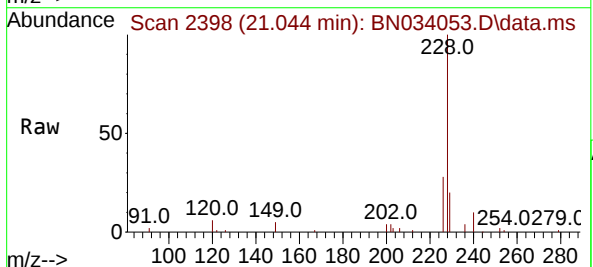
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

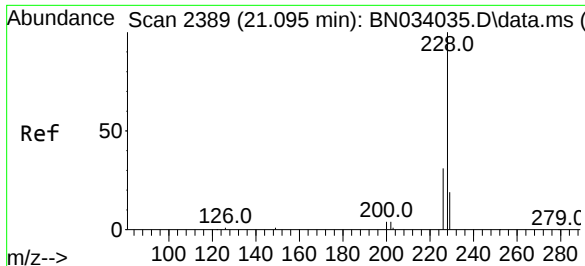
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.8	11.6
122	16.0	14.8	22.2



#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.3	33.5
229	19.9	15.7	23.5

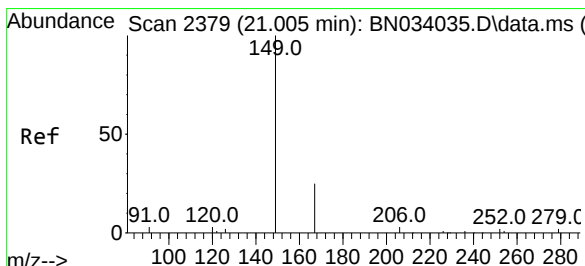
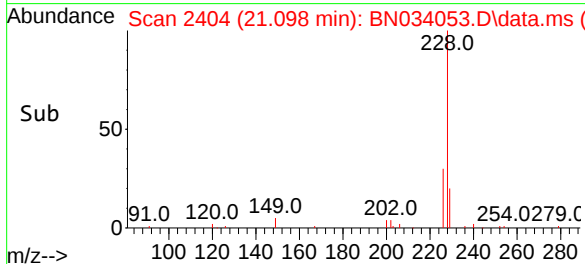
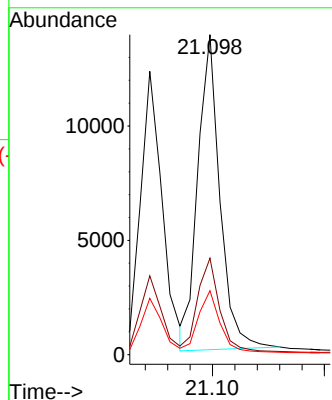
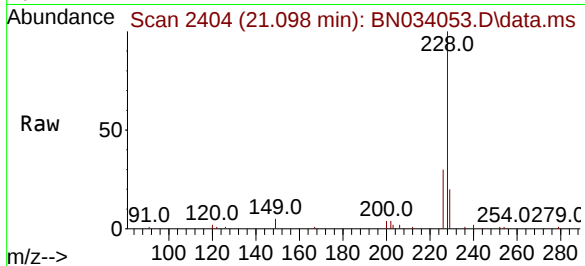




#33
Chrysene
Concen: 0.378 ng
RT: 21.098 min Scan# 2404
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

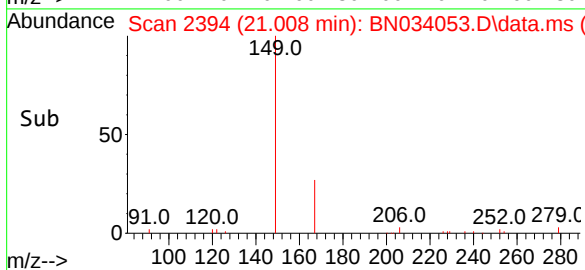
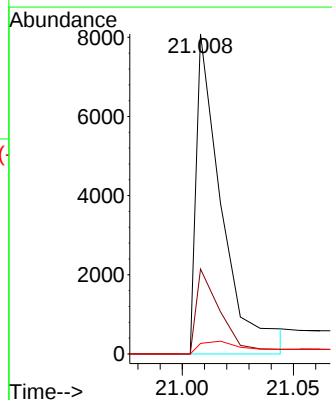
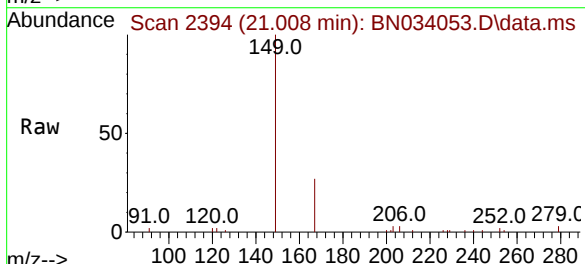
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

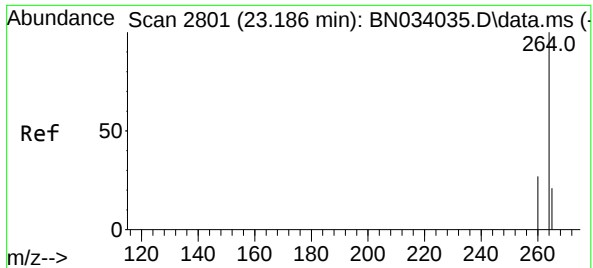
Tgt Ion:	228	Resp:	18880
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.6	37.0
229	20.0	15.5	23.3



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:	149	Resp:	6364
Ion Ratio	Lower	Upper	
149	100		
167	26.1	19.9	29.9
279	7.1	4.6	6.8#

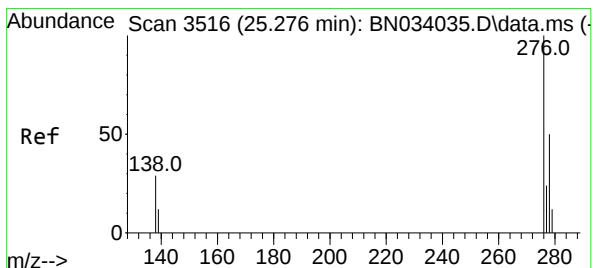
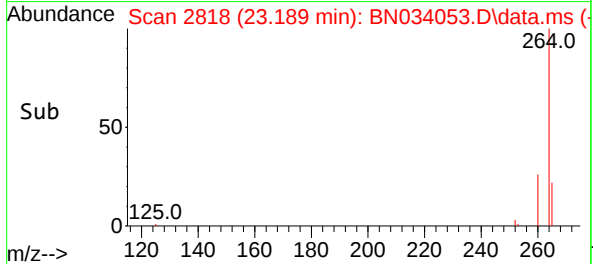
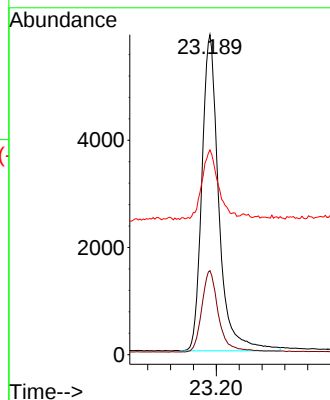
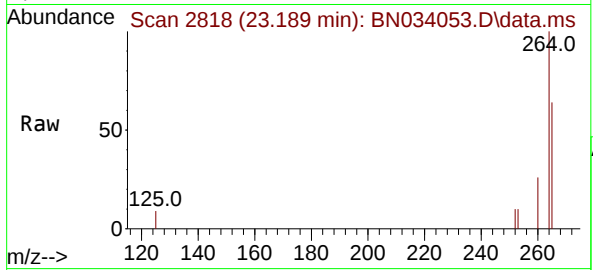




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

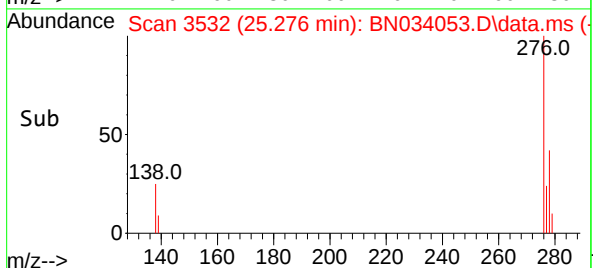
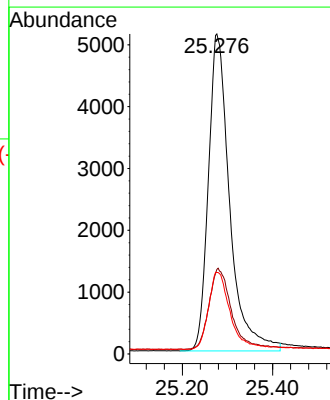
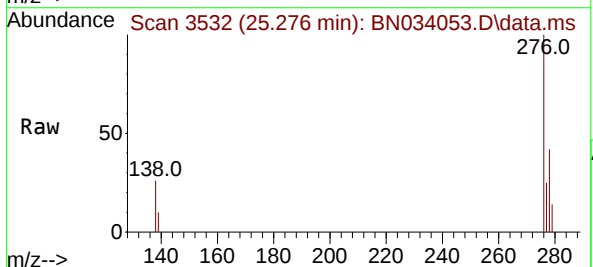
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

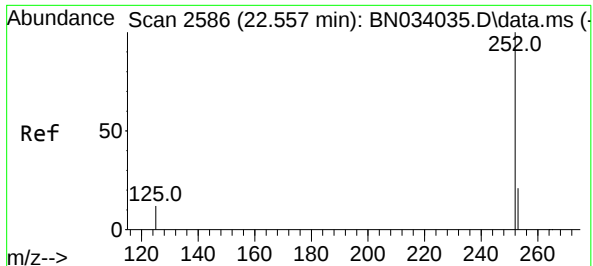
Tgt Ion:264 Resp: 12101
Ion Ratio Lower Upper
264 100
260 26.3 21.7 32.5
265 64.0 52.1 78.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.324 ng
RT: 25.276 min Scan# 3532
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:276 Resp: 16791
Ion Ratio Lower Upper
276 100
138 27.0 25.9 38.9
277 25.0 19.7 29.5

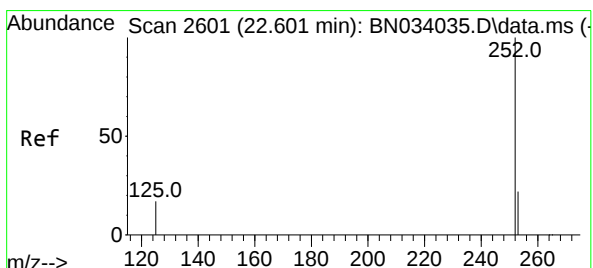
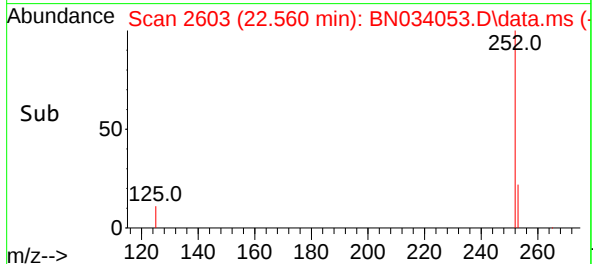
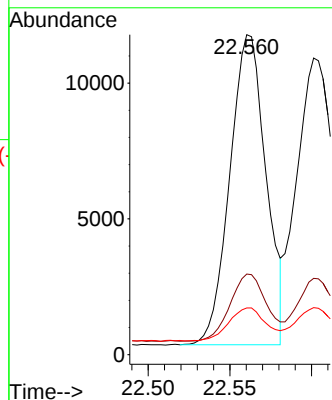
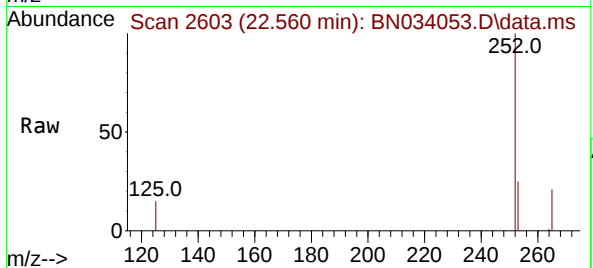




#37
Benzo(b)fluoranthene
Concen: 0.370 ng
RT: 22.560 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

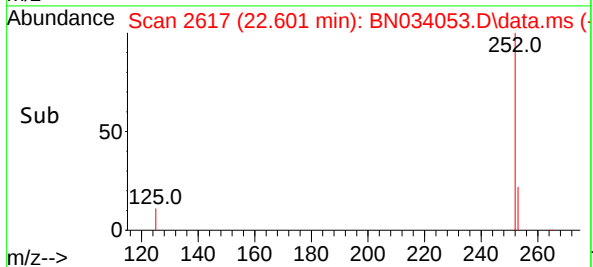
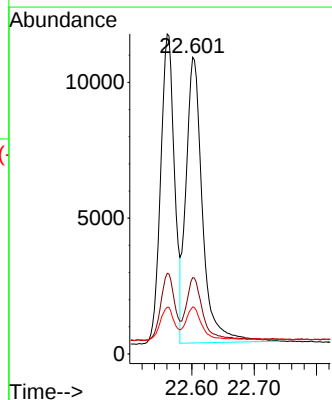
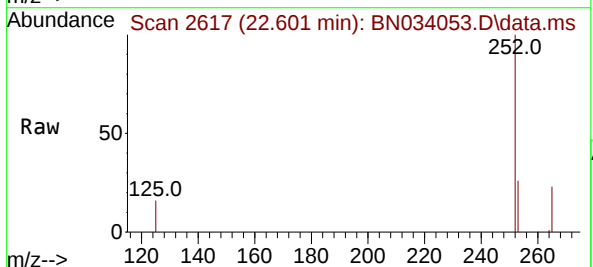
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

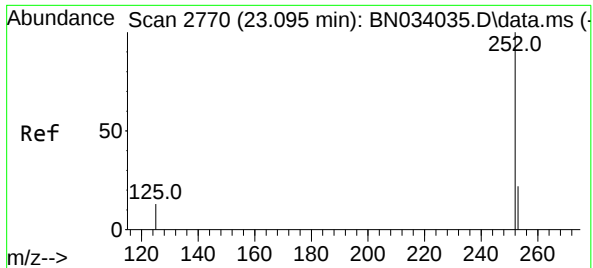
Tgt Ion:252 Resp: 17560
Ion Ratio Lower Upper
252 100
253 25.2 19.6 29.4
125 14.6 13.8 20.8



#38
Benzo(k)fluoranthene
Concen: 0.387 ng
RT: 22.601 min Scan# 2617
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:252 Resp: 19268
Ion Ratio Lower Upper
252 100
253 25.7 20.1 30.1
125 15.8 16.8 25.2#

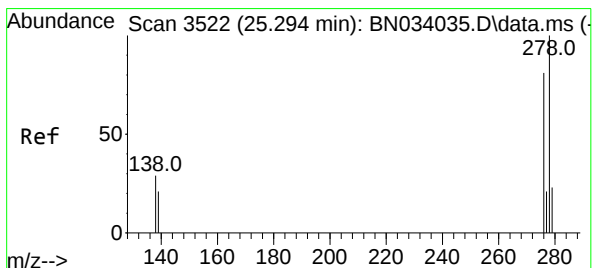
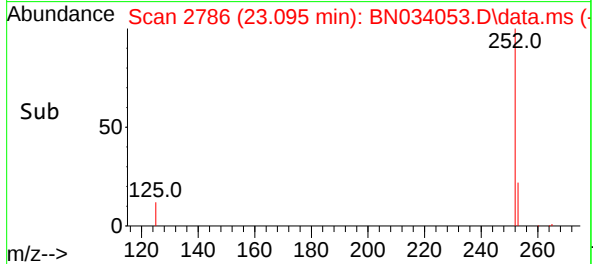
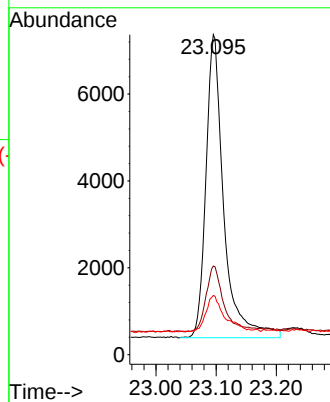
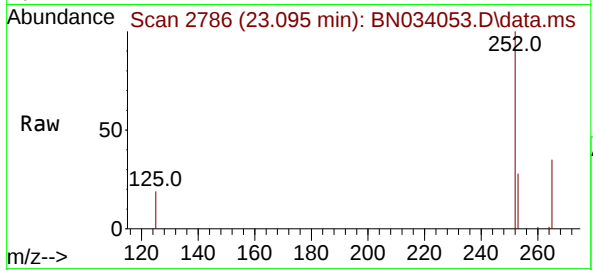




#39
Benzo(a)pyrene
Concen: 0.372 ng
RT: 23.095 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

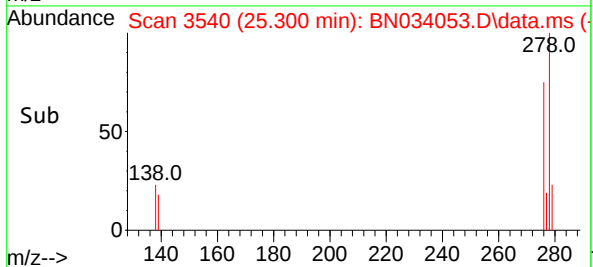
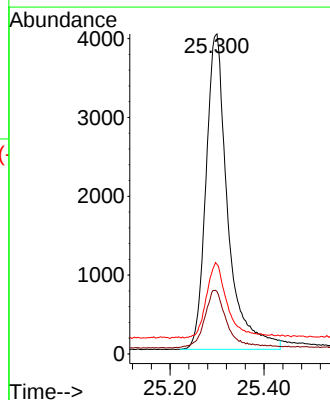
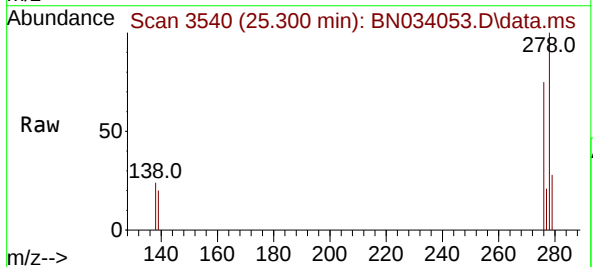
Instrument :
BNA_N
ClientSampleId :
PB163341BSD

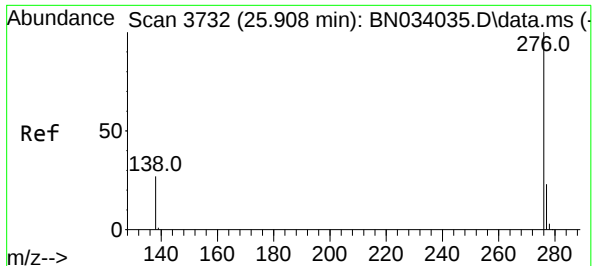
Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	21.8	32.8
125	18.5	17.5	26.3



#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.300 min Scan# 3540
Delta R.T. 0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.8	26.8
279	27.9	21.0	31.6





#41

Benzo(g,h,i)perylene

Concen: 0.332 ng

RT: 25.911 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN034053.D

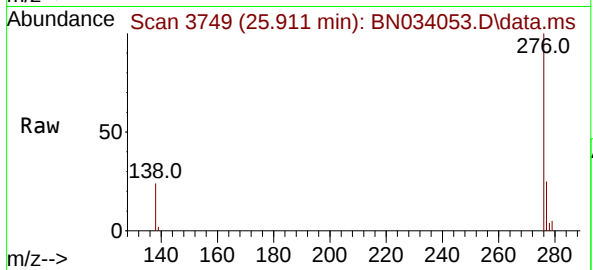
Acq: 19 Sep 2024 17:03

Instrument :

BNA_N

ClientSampleId :

PB163341BSD



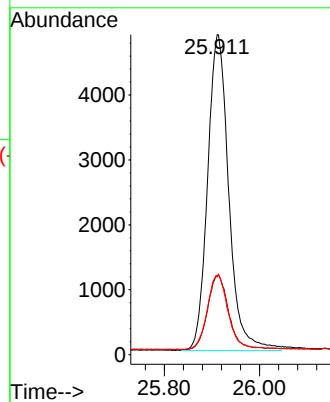
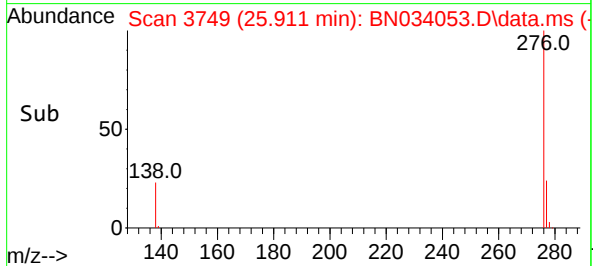
Tgt Ion:276 Resp: 15023

Ion Ratio Lower Upper

276 100

277 24.8 19.3 28.9

138 24.3 22.6 34.0





Manual Integration Report

Sequence:	bn091924	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924
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	BN034032.D	18 Sep 2024 08:34	JU/RC	Ok
2	SSTDIC0.1	BN034033.D	18 Sep 2024 11:53	JU/RC	Ok
3	SSTDIC0.2	BN034034.D	18 Sep 2024 12:29	JU/RC	Ok
4	SSTDIC0.4	BN034035.D	18 Sep 2024 13:05	JU/RC	Ok
5	SSTDIC0.8	BN034036.D	18 Sep 2024 13:41	JU/RC	Ok
6	SSTDIC1.6	BN034037.D	18 Sep 2024 14:17	JU/RC	Ok
7	SSTDIC3.2	BN034038.D	18 Sep 2024 14:54	JU/RC	Ok
8	SSTDIC5.0	BN034039.D	18 Sep 2024 15:30	JU/RC	Ok
9	SSTDICV0.4	BN034040.D	18 Sep 2024 18:01	JU/RC	Ok
10	PB163341BL	BN034041.D	18 Sep 2024 18:37	JU/RC	Ok
11	P3845-08	BN034042.D	18 Sep 2024 19:13	JU/RC	Dilution
12	P3845-08DL	BN034043.D	18 Sep 2024 19:49	JU/RC	Dilution
13	P3845-21	BN034044.D	18 Sep 2024 20:26	JU/RC	Dilution
14	DFTPP	BN034045.D	19 Sep 2024 08:54	JU/RC	Ok
15	SSTDIC0.4	BN034046.D	19 Sep 2024 09:33	JU/RC	Ok
16	PB163341BL	BN034047.D	19 Sep 2024 10:09	JU/RC	Ok
17	P3845-08DL2	BN034048.D	19 Sep 2024 11:22	JU/RC	Ok
18	P3845-21DL	BN034049.D	19 Sep 2024 13:22	JU/RC	Ok
19	P3845-05	BN034050.D	19 Sep 2024 14:33	JU/RC	Dilution
20	P3845-05DL	BN034051.D	19 Sep 2024 15:31	JU/RC	Ok
21	PB163341BS	BN034052.D	19 Sep 2024 16:27	JU/RC	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924
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	PB163341BSD	BN034053.D	19 Sep 2024 17:03	JU/RC	Ok
23	P3970-03	BN034054.D	19 Sep 2024 17:40	JU/RC	ReRun
24	P3972-01	BN034055.D	19 Sep 2024 18:15	JU/RC	Ok
25	P3972-02	BN034056.D	19 Sep 2024 18:52	JU/RC	Ok
26	P3972-04	BN034057.D	19 Sep 2024 19:28	JU/RC	Ok
27	SSTDCCC0.4	BN034058.D	19 Sep 2024 20:04	JU/RC	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM
SubDirectory	BN091924	HP Acquire Method	BNA_N
		HP Processing Method	bn091924

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	BN034032.D	18 Sep 2024 08:34		JU/RC	Ok
2	SSTDICC0.1	SSTDICC0.1	BN034033.D	18 Sep 2024 11:53	Compound#20,34 removed from 0.1 ppm	JU/RC	Ok
3	SSTDICC0.2	SSTDICC0.2	BN034034.D	18 Sep 2024 12:29	Compound#20 Kept on LR	JU/RC	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN034035.D	18 Sep 2024 13:05	The Calibration is Good For DOD	JU/RC	Ok
5	SSTDICC0.8	SSTDICC0.8	BN034036.D	18 Sep 2024 13:41		JU/RC	Ok
6	SSTDICC1.6	SSTDICC1.6	BN034037.D	18 Sep 2024 14:17		JU/RC	Ok
7	SSTDICC3.2	SSTDICC3.2	BN034038.D	18 Sep 2024 14:54		JU/RC	Ok
8	SSTDICC5.0	SSTDICC5.0	BN034039.D	18 Sep 2024 15:30	Compound#20,24 removed from 5 ppm	JU/RC	Ok
9	SSTDICV0.4	ICVBN091924	BN034040.D	18 Sep 2024 18:01		JU/RC	Ok
10	PB163341BL	PB163341BL	BN034041.D	18 Sep 2024 18:37		JU/RC	Ok
11	P3845-08	PT-ACIDS-WP	BN034042.D	18 Sep 2024 19:13	Need 5X Dilution	JU/RC	Dilution
12	P3845-08DL	PT-ACIDS-WPDL	BN034043.D	18 Sep 2024 19:49	Need Further 10X Dilution	JU/RC	Dilution
13	P3845-21	RR-PAH-WP	BN034044.D	18 Sep 2024 20:26	Need 10X Dilution	JU/RC	Dilution
14	DFTPP	DFTPP	BN034045.D	19 Sep 2024 08:54		JU/RC	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN034046.D	19 Sep 2024 09:33		JU/RC	Ok
16	PB163341BL	PB163341BL	BN034047.D	19 Sep 2024 10:09		JU/RC	Ok
17	P3845-08DL2	PT-ACIDS-WPDL2	BN034048.D	19 Sep 2024 11:22		JU/RC	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924
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					

18	P3845-21DL	RR-PAH-WPDL	BN034049.D	19 Sep 2024 13:22		JU/RC	Ok
19	P3845-05	PT-BN-WP	BN034050.D	19 Sep 2024 14:33	Need 50X Dilution	JU/RC	Dilution
20	P3845-05DL	PT-BN-WPDL	BN034051.D	19 Sep 2024 15:31		JU/RC	Ok
21	PB163341BS	PB163341BS	BN034052.D	19 Sep 2024 16:27		JU/RC	Ok
22	PB163341BSD	PB163341BSD	BN034053.D	19 Sep 2024 17:03		JU/RC	Ok
23	P3970-03	BPOW6-8-HYD-20240911	BN034054.D	19 Sep 2024 17:40	Surrogate Fail	JU/RC	ReRun
24	P3972-01	RW7-SP100-20240911	BN034055.D	19 Sep 2024 18:15		JU/RC	Ok
25	P3972-02	RW7-SP201-20240911	BN034056.D	19 Sep 2024 18:52		JU/RC	Ok
26	P3972-04	RW7-SP303-20240911	BN034057.D	19 Sep 2024 19:28		JU/RC	Ok
27	SSTDCCC0.4	SSTDCCC0.4EC	BN034058.D	19 Sep 2024 20:04		JU/RC	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 09/12/2024

Matrix : Water **Extraction Start Time :** 12:00

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 09/12/2024

Balance check: N/A **Filter By:** RS **Extraction End Time :** 16:55

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3574 **Hood ID:** 4,5,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

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	SP6615
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	E3791
Baked Na2SO4	N/A	EP2536
10N NaoH	N/A	EP2523
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot#2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Use same Extract from PB163318 For #5 & 8.

KD Bath ID: Water bath -01,02 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/12/24	RP (Ext 206)	RC/SVOC
17:00	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 09/12/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB163341BL	SBLK341	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			SEP-01
PB163341BS	SLCS341	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			2
PB163341BS D	SLCSD341	SVOC-SIMGrou p1	1000	6	RUPESH	rajesh	1			3
P3845-05	PT-BN-WP	SVOCMS Group3	1000	6	RUPESH	rajesh	1			4
P3845-08	PT-ACIDS-WP	SVOCMS Group4	1000	6	RUPESH	rajesh	1			5
P3845-21	RR-PAH-WP	SVOCMS Group5	1000	6	RUPESH	rajesh	1			6
P3970-03	BPOW6-8-HYD-20240910	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		7
P3972-01	RW7-SP100-20240911	SVOC-SIMGrou p1	980	6	RUPESH	rajesh	1	C		8
P3972-02	RW7-SP201-20240911	SVOC-SIMGrou p1	970	6	RUPESH	rajesh	1	C		9
P3972-03	RW7-SP302-20240911	SVOC-SIMGrou p1	960	6	RUPESH	rajesh	1	C		10
P3972-04	RW7-SP303-20240911	SVOC-SIMGrou p1	990	6	RUPESH	rajesh	1	C		11

* Extracts relinquished on the same date as received.



WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3970 WorkList ID : 183431 Department : Extraction Date : 09-12-2024 11:55:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3845-05	PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3845-08	PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3845-21	RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3970-03	BPOW6-8-HYD-20240910	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/10/2024	8270-Modified
P3972-01	RW7-SP100-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-02	RW7-SP201-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-03	RW7-SP302-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-04	RW7-SP303-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified

Date/Time 09/12/24 11:52
 Raw Sample Received by: AS (Ex Lab)
 Raw Sample Relinquished by: AS (Ex Lab)

Date/Time 09/12/24 12:25
 Raw Sample Received by: AS (Ex Lab)
 Raw Sample Relinquished by: AS (Ex Lab)

Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : SVOCMS Group3

Prepbatch ID : PB163341,

Sequence ID/Qc Batch ID: bn091924,bn091924,BN091924,BN091924,BN092124,BN092524,

Standard ID :

EP2523,EP2524,EP2536,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6615,

Chemical ID :

E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3791,M5037,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>
1874	10 N SODIUM HYDROXIDE SOLN	EP2523	08/14/2024	02/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2524	08/14/2024	12/15/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2536	09/10/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Rajesh Parikh 09/10/2024

FROM 1.00000gram 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 DFTPP 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	SP6615	09/06/2024	11/21/2024	Rahul Chavli	None	None	mohammad ahmed
FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 ml								

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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	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

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
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

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

Certified By: Erica Castiglione
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
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Fax: (814)353-1309

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

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

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

CERTIFIED VALUES

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

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

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

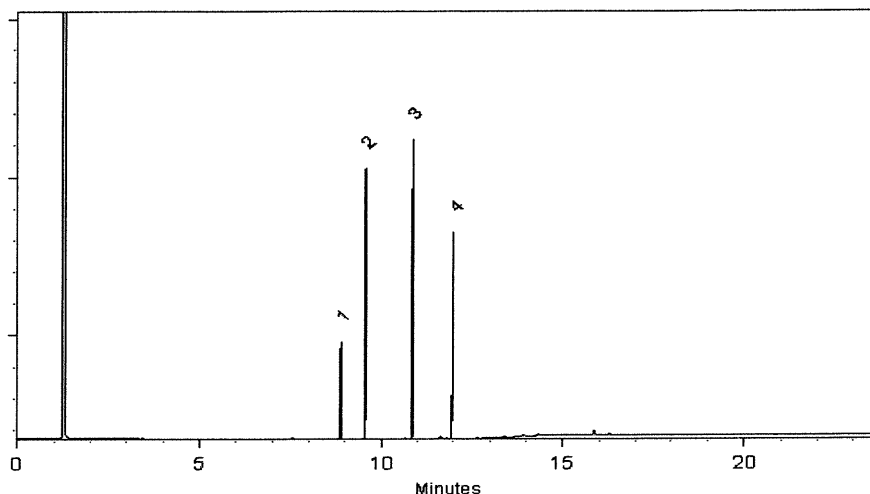
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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



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

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

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

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

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

Received on
09/07/22
by
CG
S10778
to
S10782

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 µg/mL Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%		

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

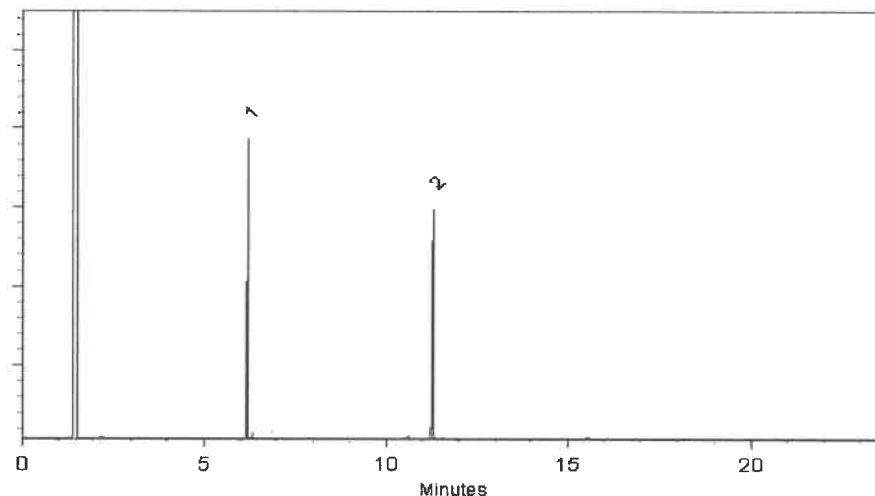
250°C

Det. Temp:

330°C

Det. Type:

FID



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

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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Certificate #FM 80397



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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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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:

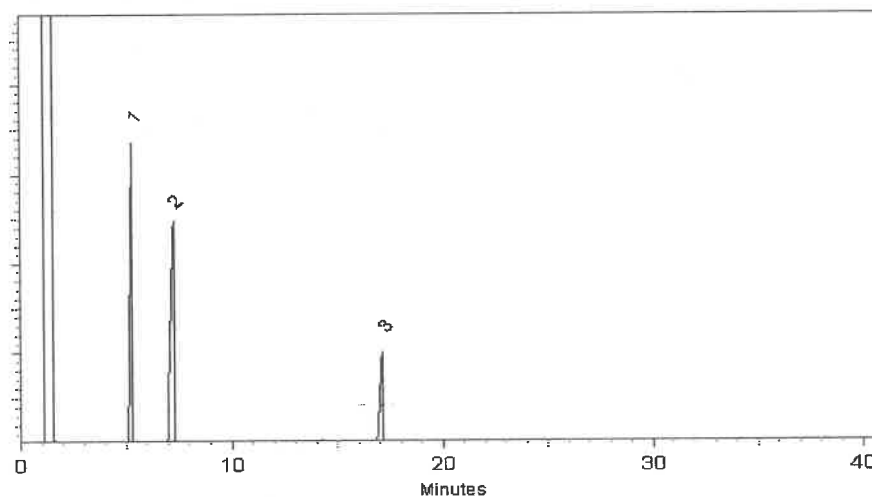
250°C

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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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)

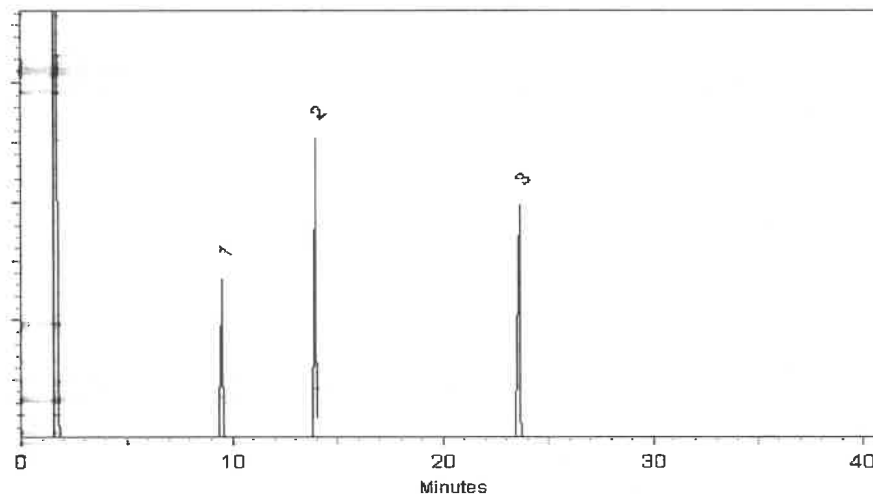
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

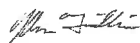
Inj. Temp:
250°C

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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gravimetric



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

Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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

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MONTERREY, N.L. MEXICO
CP 64070
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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.

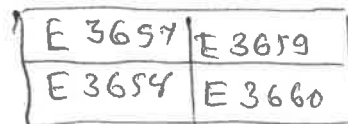
This document has been electronically produced and is valid without a signature.

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
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: MG24D10725

E 3768

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Page 1 of 1

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



Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (μ eq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

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

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

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

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



Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

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

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantor™



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

MS037-38-39-40
no

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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 - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

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

James Ethier
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

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.: 555223

Lot No.: A0201940

Description:

Custom 8270 Plus Standard #1

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

Container Size:

2 mL

Expiration Date:

September 30, 2025

Handling:

This product is photosensitive.

Pkg Amt: > 1 mL

Storage: 10°C or colder

Ship: Ambient

511539
↓
51568

7.6
0911

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

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

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023

Balance: B345965662

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

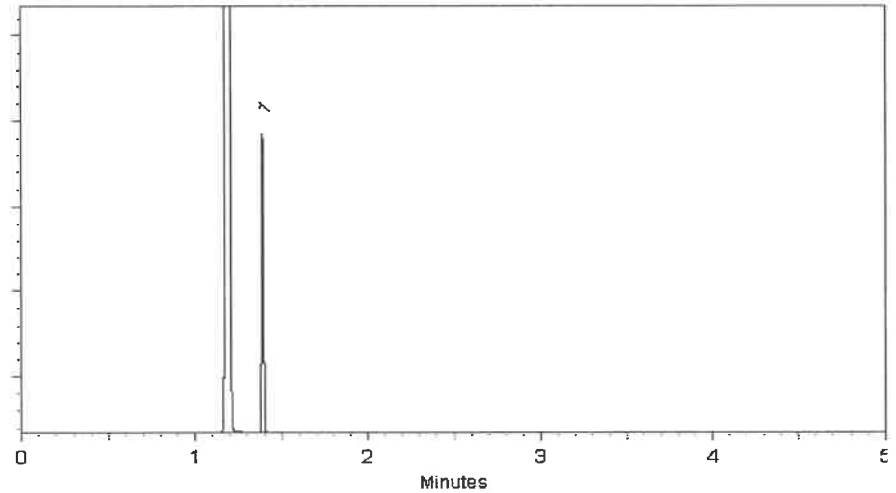
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



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

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

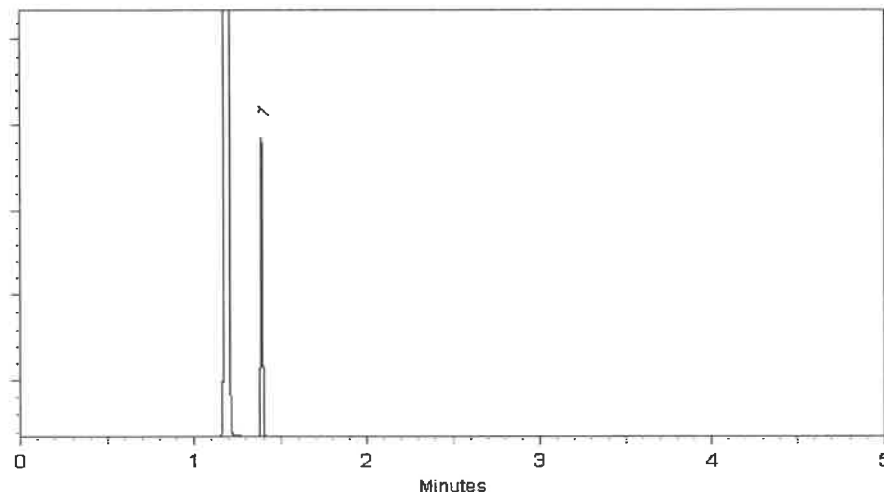
FID

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:

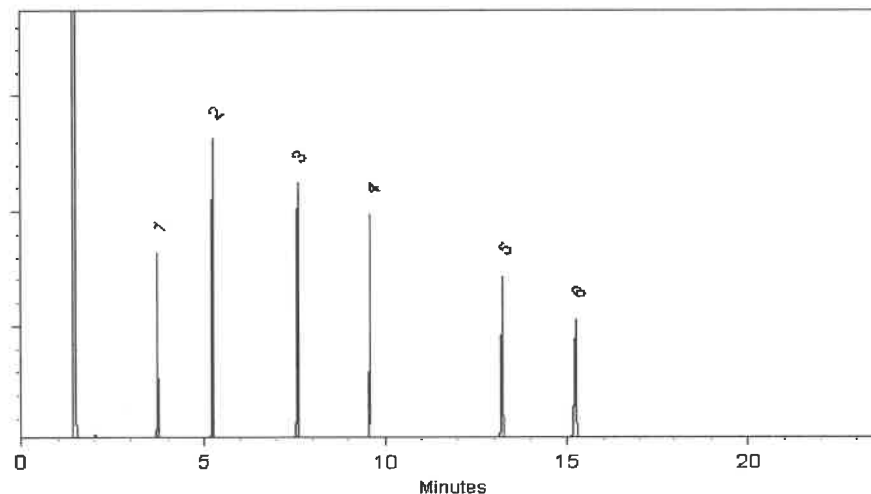
FID

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

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

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

Certified By: _____

Shane Overcash
Chemist

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



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

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

Description : Custom 8270 Plus Standard #2

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

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

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

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

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

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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

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

Description : Custom 8270 Plus Standard #2

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

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

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

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

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

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

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



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

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

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

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

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

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

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

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

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
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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Catalog No. : 31850 **Lot No.:** A0203726

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

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

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

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

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

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

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

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

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

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

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Packing List

6390 Joyce Dr., #100
Golden, CO 80403

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

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

Date	Order #
09/03/2024	318988



Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

Packing List

6390 Joyce Dr., #100
Golden, CO 80403

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Date	Order #
09/03/2024	318988



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Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488