

Cover Page

Order ID : Q3483

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q3483-01
Q3483-02
Q3483-03
Q3483-04
Q3483-05
Q3483-06
Q3483-07
Q3483-08
Q3483-09
Q3483-10
Q3483-11
Q3483-12
Q3483-13
Q3483-14
Q3483-15
Q3483-16
Q3483-17
Q3483-18
Q3483-19
Q3483-20
Q3483-21
Q3483-22
Q3483-23
Q3483-24
Q3483-25

Client Sample Number

HW1025-PT-AN-SOIL
HW1025-PT-CORR-SOIL
HW1025-PT-CN-SOIL
HW1025-PT-CN-SOIL
HW1025-PT-FP-SOIL
HW1025-PT-CR6-SOIL
HW1025-PT-NUT-SOIL
HW1025-PT-NUT-SOIL
HW1025-PT-OGR-SOIL
HW1025-PT-MET-SOIL
HW1025-PT-BNA-SOIL
HW1025-PT-TRIAZINE-SOIL
HW1025-PT-PAH-SOIL
HW1025-PT-DIES-SOIL
HW1025-PT-GAS-SOIL
HW1025-PT-NJEPH-SOIL
HW1025-PT-HERB-SOIL
HW1025-PT-PCB-SOIL
HW1025-PT-PCBO-SOIL
HW1025-PT-PEST-SOIL
HW1025-PT-CHLOR-SOIL
HW1025-PT-TXP-SOIL
HW1025-PT-VOA-SOIL
HW1025-PT-SOL-SOIL
HW1025-PT-NO2-SOIL

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

Signature : _____

Date: 12/12/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3483

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MAYUR DESAI

Date: 12/12/2025

LAB CHRONICLE

OrderID:	Q3483	OrderDate:	10/29/2025 2:32:00 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Soil PT
Contact:	Mohammad Ahmed	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3483-11	HW1025-PT-BNA-SOI L	SOIL			10/27/25			10/29/25
			SVOCMS Group1	8270E		11/18/25	11/26/25	
Q3483-11DL	HW1025-PT-BNA-SOI LDL	SOIL			10/27/25			10/29/25
			SVOCMS Group1	8270E		11/18/25	11/26/25	
Q3483-13	HW1025-PT-PAH-SOI L	SOIL			10/27/25			10/29/25
			SVOCMS Group3	8270-Modified		11/18/25	12/01/25	
Q3483-13DL	HW1025-PT-PAH-SOI LDL	SOIL			10/27/25			10/29/25
			SVOCMS Group3	8270-Modified		11/18/25	12/01/25	

Hit Summary Sheet SW-846

SDG No.: Q3483

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	HW1025-PT-PAH-SOIL							
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Naphthalene	320.000	E	1.2	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	2-Methylnaphthalene	200.000	E	1.2	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Acenaphthylene	490.000	E	1.1	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Acenaphthene	270.000	E	1.1	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Fluorene	63.000		1.1	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Phenanthrene	580.000	E	1.2	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Anthracene	590.000	E	1.2	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Fluoranthene	81.100		1.2	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Pyrene	130.000		1.1	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Benzo(a)anthracene	100.000		1.3	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Chrysene	77.500		1.4	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Benzo(b)fluoranthene	210.000	E	1.6	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Benzo(k)fluoranthene	220.000	E	1.8	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Benzo(a)pyrene	180.000	E	1.4	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	65.600		1.8	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Dibenzo(a,h)anthracene	160.000		1.8	3.3	ug/Kg
Q3483-13	HW1025-PT-PAH-SOIL	SOIL	Benzo(g,h,i)perylene	170.000	E	1.7	3.3	ug/Kg
Total Svoc :				3,907.20				
Total Concentration:				3,907.20				
Client ID :	HW1025-PT-PAH-SOILDL							
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Naphthalene	310.000	D	11.5	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	2-Methylnaphthalene	190.000	D	11.8	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Acenaphthylene	420.000	D	10.7	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Acenaphthene	260.000	D	11.1	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Fluorene	56.600	D	11.2	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Phenanthrene	560.000	D	11.5	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Anthracene	530.000	D	12.1	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Fluoranthene	78.800	D	11.8	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Pyrene	130.000	D	10.7	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Benzo(a)anthracene	94.700	D	12.8	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Chrysene	74.800	D	13.6	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Benzo(b)fluoranthene	210.000	D	15.7	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Benzo(k)fluoranthene	210.000	D	18.3	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Benzo(a)pyrene	180.000	D	14.2	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Indeno(1,2,3-cd)pyrene	61.200	D	17.7	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Dibenzo(a,h)anthracene	140.000	D	17.9	32.8	ug/Kg
Q3483-13DL	HW1025-PT-PAH-SOILI	SOIL	Benzo(g,h,i)perylene	160.000	D	16.8	32.8	ug/Kg



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

Hit Summary Sheet
SW-846

SDG No.: Q3483
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :		3,666.10			
			Total Concentration:		3,666.10			



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3483

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170590BL	PB170590BL	2-Methylnaphthalene-d10	0.4	0.32	81		17	161
		Fluoranthene-d10	0.4	0.36	91		23	138
		Nitrobenzene-d5	0.4	0.35	88		33	121
		2-Fluorobiphenyl	0.4	0.37	92		32	121
		Terphenyl-d14	0.4	0.38	94		21	130
PB170590BS	PB170590BS	2-Methylnaphthalene-d10	0.4	0.38	94		17	161
		Fluoranthene-d10	0.4	0.44	109		23	138
		Nitrobenzene-d5	0.4	0.43	106		33	121
		2-Fluorobiphenyl	0.4	0.49	122	*	32	121
		Terphenyl-d14	0.4	0.37	92		21	130
Q3483-13	HW1025-PT-PAH-SOIL	2-Methylnaphthalene-d10	0.4	0.31	78		17	161
		Fluoranthene-d10	0.4	0.38	95		23	138
		Nitrobenzene-d5	0.4	0.33	81		33	121
		2-Fluorobiphenyl	0.4	0.36	91		32	121
		Terphenyl-d14	0.4	0.45	111		21	130
Q3483-13DL	HW1025-PT-PAH-SOILDL	2-Methylnaphthalene-d10	0.4	0.30	75		17	161
		Fluoranthene-d10	0.4	0.37	93		23	138
		Nitrobenzene-d5	0.4	0.34	85		33	121
		2-Fluorobiphenyl	0.4	0.52	130	*	32	121
		Terphenyl-d14	0.4	0.75	188	*	21	130
Q3618-02MS	EME-GENERAL-FILLMS	2-Methylnaphthalene-d10	0.4	0.33	83		17	161
		Fluoranthene-d10	0.4	0.31	78		23	138
		Nitrobenzene-d5	0.4	0.34	85		33	121
		2-Fluorobiphenyl	0.4	0.37	91		32	121
		Terphenyl-d14	0.4	0.34	85		21	130
Q3618-02MSD	EME-GENERAL-FILLMSD	2-Methylnaphthalene-d10	0.4	0.36	90		17	161
		Fluoranthene-d10	0.4	0.33	83		23	138
		Nitrobenzene-d5	0.4	0.37	91		33	121
		2-Fluorobiphenyl	0.4	0.39	97		32	121
		Terphenyl-d14	0.4	0.37	92		21	130

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3483

Analytical Method: SW8270-Modified

Client: Alliance Technical Group, LLC - Newark

DataFile: BN038234.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3618-02MS		Client Sample ID: EME-GENERAL-FILLMS									
Naphthalene	15.1	0	13.7	ug/Kg	91				37	129	
2-Methylnaphthalene	15.1	0	11.9	ug/Kg	79				37	139	
Acenaphthylene	15.1	0	12.9	ug/Kg	85				21	147	
Acenaphthene	15.1	2.50	13.1	ug/Kg	70				19	141	
Fluorene	15.1	0	12.0	ug/Kg	79				10	167	
Phenanthrene	15.1	0	14.3	ug/Kg	95				27	146	
Anthracene	15.1	0	13.1	ug/Kg	87				12	166	
Fluoranthene	15.1	0	12.9	ug/Kg	85				20	150	
Pyrene	15.1	0	12.3	ug/Kg	81				10	163	
Benzo(a)anthracene	15.1	3.40	17.3	ug/Kg	92				10	175	
Chrysene	15.1	2.80	13.7	ug/Kg	72				32	143	
Benzo(b)fluoranthene	15.1	0	13.0	ug/Kg	86				10	188	
Benzo(k)fluoranthene	15.1	0	12.3	ug/Kg	81				42	122	
Benzo(a)pyrene	15.1	0	13.3	ug/Kg	88				10	175	
Indeno(1,2,3-cd)pyrene	15.1	0	14.4	ug/Kg	95				10	175	
Dibenz(a,h)anthracene	15.1	0	14.5	ug/Kg	96				10	170	
Benzo(g,h,i)perylene	15.1	0	13.4	ug/Kg	89				10	168	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3483

Analytical Method: SW8270-Modified

Client: Alliance Technical Group, LLC - Newark

DataFile: BN038235.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q3618-02MSD		Client Sample ID: EME-GENERAL-FILLMSD									
Naphthalene	15.1	0	14.7	ug/Kg	97		6		37	129	20
2-Methylnaphthalene	15.1	0	12.8	ug/Kg	85		7		37	139	20
Acenaphthylene	15.1	0	14.2	ug/Kg	94		10		21	147	20
Acenaphthene	15.1	2.50	14.0	ug/Kg	76		8		19	141	20
Fluorene	15.1	0	13.0	ug/Kg	86		8		10	167	20
Phenanthrene	15.1	0	15.5	ug/Kg	103		8		27	146	20
Anthracene	15.1	0	14.2	ug/Kg	94		8		12	166	20
Fluoranthene	15.1	0	13.9	ug/Kg	92		8		20	150	20
Pyrene	15.1	0	13.5	ug/Kg	89		9		10	163	20
Benzo(a)anthracene	15.1	3.40	18.8	ug/Kg	102		10		10	175	20
Chrysene	15.1	2.80	14.9	ug/Kg	80		11		32	143	20
Benzo(b)fluoranthene	15.1	0	13.8	ug/Kg	91		6		10	188	20
Benzo(k)fluoranthene	15.1	0	13.4	ug/Kg	89		9		42	122	20
Benzo(a)pyrene	15.1	0	14.4	ug/Kg	95		8		10	175	20
Indeno(1,2,3-cd)pyrene	15.1	0	15.8	ug/Kg	105		10		10	175	20
Dibenz(a,h)anthracene	15.1	0	16.0	ug/Kg	106		10		10	170	20
Benzo(g,h,i)perylene	15.1	0	14.6	ug/Kg	97		9		10	168	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3483

Analytical Method: 8270-Modified

Client: Alliance Technical Group, LLC - Newark

DataFile: BN038237.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB170590BS	Naphthalene	13.3	12.3	ug/Kg	92				63	120	
	2-Methylnaphthalene	13.3	10.2	ug/Kg	77				54	111	
	Acenaphthylene	13.3	13.5	ug/Kg	102				61	110	
	Acenaphthene	13.3	11.9	ug/Kg	89				65	112	
	Fluorene	13.3	11.3	ug/Kg	85				61	115	
	Phenanthrene	13.3	12.3	ug/Kg	92				61	120	
	Anthracene	13.3	13.2	ug/Kg	99				60	115	
	Fluoranthene	13.3	13.9	ug/Kg	105				56	124	
	Pyrene	13.3	12.0	ug/Kg	90				58	125	
	Benzo(a)anthracene	13.3	14.2	ug/Kg	107				45	129	
	Chrysene	13.3	12.5	ug/Kg	94				62	123	
	Benzo(b)fluoranthene	13.3	11.5	ug/Kg	86				47	123	
	Benzo(k)fluoranthene	13.3	11.6	ug/Kg	87				69	123	
	Benzo(a)pyrene	13.3	13.1	ug/Kg	98				53	123	
	Indeno(1,2,3-cd)pyrene	13.3	13.1	ug/Kg	98				62	131	
	Dibenz(a,h)anthracene	13.3	13.5	ug/Kg	102				57	120	
	Benzo(g,h,i)perylene	13.3	12.1	ug/Kg	91				66	121	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170590BL

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG NO.: Q3483

Lab File ID: BN038223.D

Lab Sample ID: PB170590BL

Instrument ID: BNA_N

Date Extracted: 11/18/2025

Matrix: (soil/water) SOIL

Date Analyzed: 12/01/2025

Level: (low/med) LOW

Time Analyzed: 10:59

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170590BS	PB170590BS	BN038237.D	12/01/2025
HW1025-PT-PAH-SOIL	Q3483-13	BN038226.D	12/01/2025
EME-GENERAL-FILLMS	Q3618-02MS	BN038234.D	12/01/2025
EME-GENERAL-FILLMSD	Q3618-02MSD	BN038235.D	12/01/2025

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: Alliance
Lab Code: ACE
Lab File ID: BN038211.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3483
DFTPP Injection Date: 11/26/2025
DFTPP Injection Time: 19:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	90.9
443	15.0 - 24.0% of mass 442	18.4 (20.3) 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	BN038212.D	11/26/2025	20:35
SSTDICC0.2	SSTDICC0.2	BN038213.D	11/26/2025	21:12
SSTDICCC0.4	SSTDICCC0.4	BN038214.D	11/26/2025	21:48
SSTDICC0.8	SSTDICC0.8	BN038215.D	11/26/2025	22:25
SSTDICC1.6	SSTDICC1.6	BN038216.D	11/26/2025	23:01
SSTDICC3.2	SSTDICC3.2	BN038217.D	11/26/2025	23:37
SSTDICC5.0	SSTDICC5.0	BN038218.D	11/27/2025	00:13



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038221.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3483
DFTPP Injection Date: 12/01/2025
DFTPP Injection Time: 09:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	40.4
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	79.5
443	15.0 - 24.0% of mass 442	16.5 (20.8) 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	BN038222.D	12/01/2025	10:23
PB170590BL	PB170590BL	BN038223.D	12/01/2025	10:59
HW1025-PT-PAH-SOIL	Q3483-13	BN038226.D	12/01/2025	14:56
HW1025-PT-PAH-SOILDL	Q3483-13DL	BN038227.D	12/01/2025	15:49



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: Alliance
Lab Code: ACE
Lab File ID: BN038229.D
Instrument ID: BNA_N

Contract: ALLI03
SDG NO.: Q3483
DFTPP Injection Date: 12/01/2025
DFTPP Injection Time: 17:11

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	39.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	83
443	15.0 - 24.0% of mass 442	16.5 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038230.D	12/01/2025	17:51
EME-GENERAL-FILLMS	Q3618-02MS	BN038234.D	12/01/2025	20:17
EME-GENERAL-FILLMSD	Q3618-02MSD	BN038235.D	12/01/2025	20:53
PB170590BS	PB170590BS	BN038237.D	12/01/2025	22:05

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3483

Client ID : SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038222.D

Time Analyzed: 10:23

Instrument ID: BNA_N

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	7356	7.768	22525	10.56	12376	14.43
UPPER LIMIT	14712	8.268	45050	11.062	24752	14.93
LOWER LIMIT	3678	7.268	11262.5	10.062	6188	13.93
EPA SAMPLE NO.						
01 HW1025-PT-PAH-SOIL	8240	7.77	26555	10.56	15074	14.43
02 HW1025-PT-PAH-SOILDL	9014	7.78	29234	10.57	16868	14.43
03 PB170590BL	8151	7.77	22998	10.57	11468	14.43

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: Alliance

Lab Code: ACE

SDG NO.: Q3483

Client ID: SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038222.D

Time Analyzed: 10:23

Instrument ID: BNA_N

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	22320	17.186	12271	21.366	11359	23.674
UPPER LIMIT	44640	17.686	24542	21.866	22718	24.174
LOWER LIMIT	11160	16.686	6135.5	20.866	5679.5	23.174
EPA SAMPLE NO.						
01 HW1025-PT-PAH-SOIL	26427	17.17	15733	21.37	15160	23.67
02 HW1025-PT-PAH-SOILDL	29662	17.19	17379	21.38	15679	23.68
03 PB170590BL	17647	17.20	10944	21.38	10217	23.68

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3483

Client ID : SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

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	8054	7.768	24560	10.56	13292	14.43
UPPER LIMIT	16108	8.268	49120	11.062	26584	14.93
LOWER LIMIT	4027	7.268	12280	10.062	6646	13.93
EPA SAMPLE NO.						
01 PB170590BS	9117	7.77	25112	10.56	10775	14.43
02 EME-GENERAL-FILLMS	8533.74	7.77	25803.8	10.56	13370.1	14.43
03 EME-GENERAL-FILLMSD	8233.96	7.76	24781.5	10.56	12691.2	14.43

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: Alliance

Lab Code: ACE

SDG NO.: Q3483

Client ID: SSTDCCC0.4

Date Analyzed: 12/01/2025

Lab File ID: BN038230.D

Time Analyzed: 17:51

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	21033	17.173	11703	21.366	11756	23.674
UPPER LIMIT	42066	17.673	23406	21.866	23512	24.174
LOWER LIMIT	10516.5	16.673	5851.5	20.866	5878	23.174
EPA SAMPLE NO.						
01 PB170590BS	15967	17.17	14394	21.37	16168	23.67
02 EME-GENERAL-FILLMS	19741.5	17.17	12769.7	21.37	14157.9	23.67
03 EME-GENERAL-FILLMSD	18483.7	17.17	11818.5	21.37	13435.8	23.67

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



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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-PAH-SOIL
Lab Sample ID: Q3483-13
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.21 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected: 10/27/25
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	320	E	1	1.20	3.30	ug/Kg	12/01/25 14:56	PB170590
91-57-6	2-Methylnaphthalene	200	E	1	1.20	3.30	ug/Kg	12/01/25 14:56	PB170590
208-96-8	Acenaphthylene	490	E	1	1.10	3.30	ug/Kg	12/01/25 14:56	PB170590
83-32-9	Acenaphthene	270	E	1	1.10	3.30	ug/Kg	12/01/25 14:56	PB170590
86-73-7	Fluorene	63.0		1	1.10	3.30	ug/Kg	12/01/25 14:56	PB170590
85-01-8	Phenanthrene	580	E	1	1.20	3.30	ug/Kg	12/01/25 14:56	PB170590
120-12-7	Anthracene	590	E	1	1.20	3.30	ug/Kg	12/01/25 14:56	PB170590
206-44-0	Fluoranthene	81.1		1	1.20	3.30	ug/Kg	12/01/25 14:56	PB170590
129-00-0	Pyrene	130		1	1.10	3.30	ug/Kg	12/01/25 14:56	PB170590
56-55-3	Benzo(a)anthracene	100		1	1.30	3.30	ug/Kg	12/01/25 14:56	PB170590
218-01-9	Chrysene	77.5		1	1.40	3.30	ug/Kg	12/01/25 14:56	PB170590
205-99-2	Benzo(b)fluoranthene	210	E	1	1.60	3.30	ug/Kg	12/01/25 14:56	PB170590
207-08-9	Benzo(k)fluoranthene	220	E	1	1.80	3.30	ug/Kg	12/01/25 14:56	PB170590
50-32-8	Benzo(a)pyrene	180	E	1	1.40	3.30	ug/Kg	12/01/25 14:56	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	65.6		1	1.80	3.30	ug/Kg	12/01/25 14:56	PB170590
53-70-3	Dibenzo(a,h)anthracene	160		1	1.80	3.30	ug/Kg	12/01/25 14:56	PB170590
191-24-2	Benzo(g,h,i)perylene	170	E	1	1.70	3.30	ug/Kg	12/01/25 14:56	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.31			17 - 161	78%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.38			23 - 138	95%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.33			33 - 121	81%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.36			32 - 121	91%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			21 - 130	111%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8240							
1146-65-2	Naphthalene-d8	26600							
15067-26-2	Acenaphthene-d10	15100							
1517-22-2	Phenanthrene-d10	26400							
1719-03-5	Chrysene-d12	15700							
1520-96-3	Perylene-d12	15200							

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\BN120125\
 Data File : BN038226.D
 Acq On : 01 Dec 2025 14:56
 Operator : RC/JU
 Sample : Q3483-13
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-PAH-SOIL

Quant Time: Dec 01 15:20:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

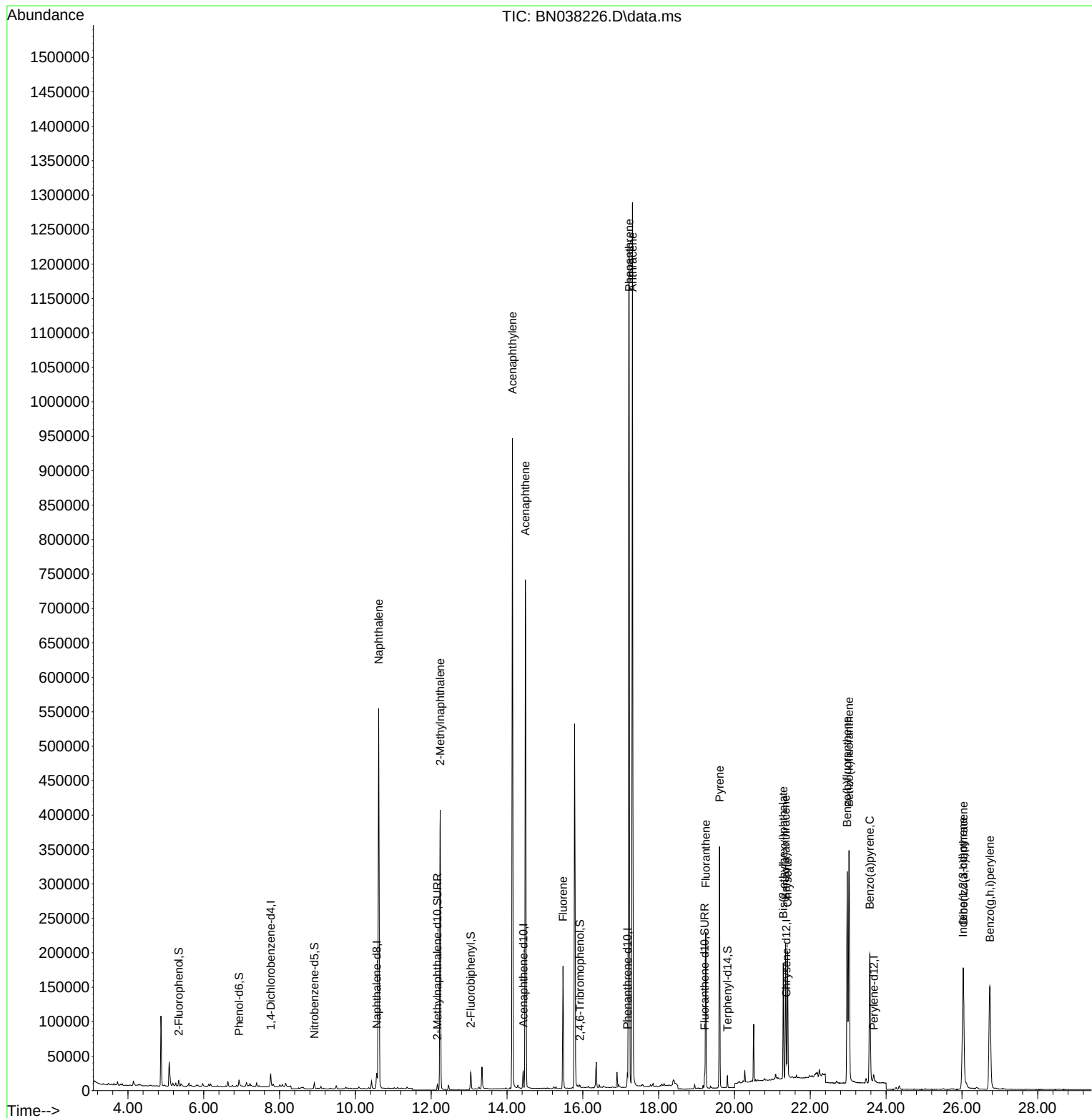
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8240	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	26555	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	15074	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	26427	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	15733	0.400	ng	0.00
35) Perylene-d12	23.674	264	15160	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	6825	0.354	ng	0.00
5) Phenol-d6	6.930	99	8553	0.355	ng	0.00
8) Nitrobenzene-d5	8.918	82	6893	0.325	ng	0.00
11) 2-Methylnaphthalene-d10	12.162	152	11720	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1932	0.407	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	21176	0.364	ng	-0.01
27) Fluoranthene-d10	19.211	212	21765	0.380	ng	0.00
31) Terphenyl-d14	19.815	244	16178	0.445	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.616	128	707707	9.597	ng	99
12) 2-Methylnaphthalene	12.238	142	292224	6.022	ng	100
16) Acenaphthylene	14.142	152	990394	14.693	ng	100
17) Acenaphthene	14.484	154	389025	8.279	ng	98
18) Fluorene	15.478	166	115670	1.902	ng	98
25) Phenanthrene	17.223	178	1450718	17.487	ng	99
26) Anthracene	17.310	178	1254292	17.720	ng	100
28) Fluoranthene	19.243	202	195932	2.450	ng	100
30) Pyrene	19.606	202	306052	3.895	ng	99
32) Benzo(a)anthracene	21.349	228	162332	3.047	ng	100
33) Chrysene	21.402	228	147180	2.341	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	148034	5.074	ng	99
36) Indeno(1,2,3-cd)pyrene	26.025	276	138980	1.981	ng	# 89
37) Benzo(b)fluoranthene	22.976	252	388530	6.244	ng	# 86
38) Benzo(k)fluoranthene	23.019	252	422476	6.531	ng	# 90
39) Benzo(a)pyrene	23.569	252	290001	5.560	ng	# 77
40) Dibenzo(a,h)anthracene	26.037	278	249956	4.706	ng	# 91
41) Benzo(g,h,i)perylene	26.735	276	318151	5.013	ng	97

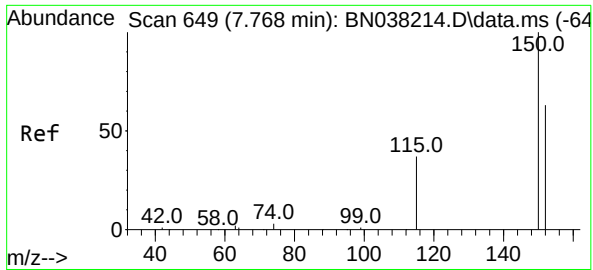
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038226.D
Acq On : 01 Dec 2025 14:56
Operator : RC/JU
Sample : Q3483-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

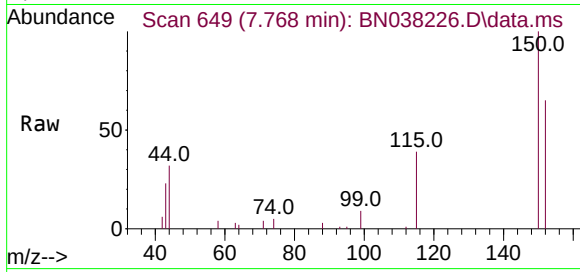
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



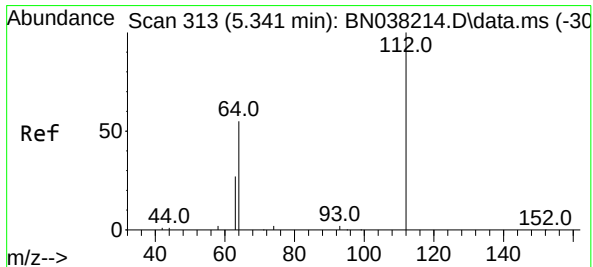
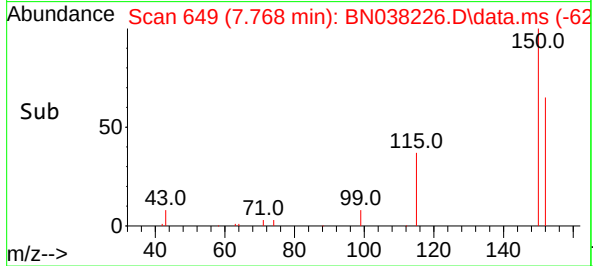
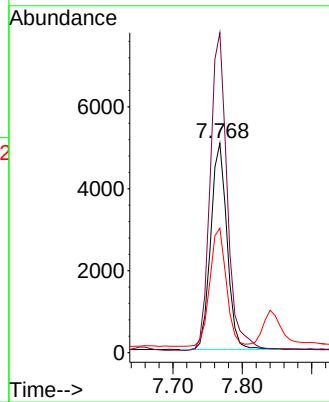


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

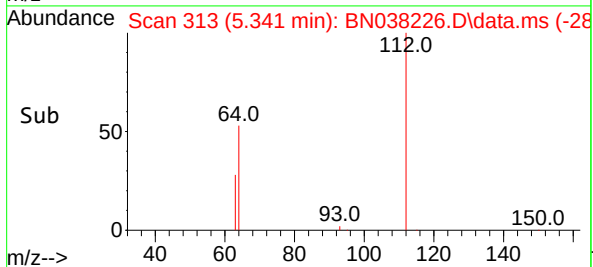
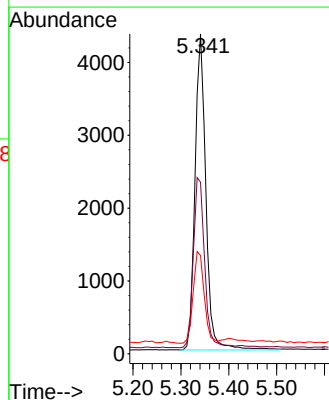
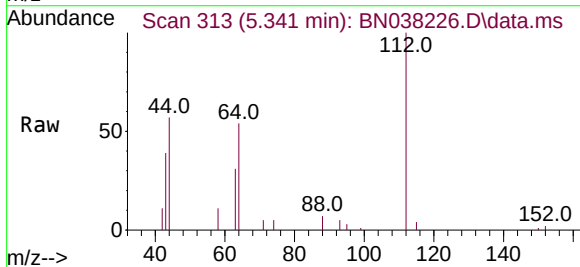


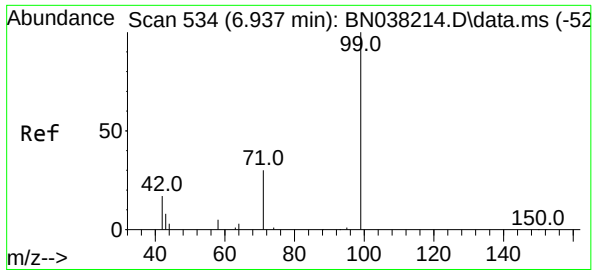
Tgt Ion:152 Resp: 8240
Ion Ratio Lower Upper
152 100
150 152.8 125.3 187.9
115 59.4 49.0 73.4



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:112 Resp: 6825
Ion Ratio Lower Upper
112 100
64 55.9 45.0 67.4
63 29.4 23.2 34.8

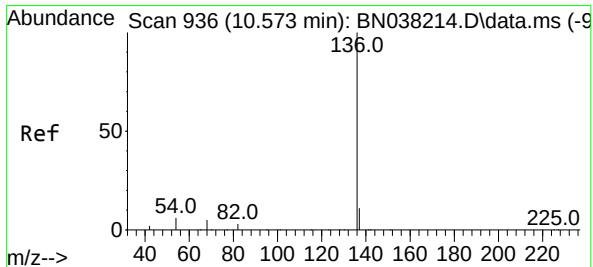
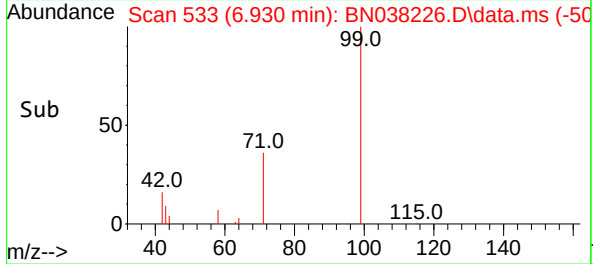
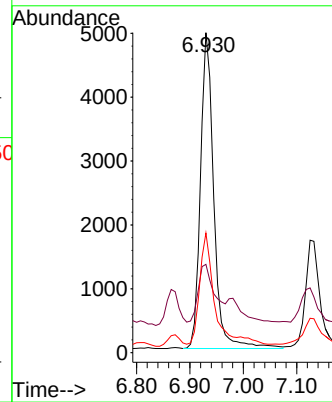
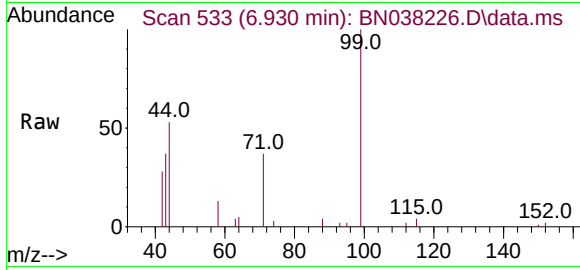




#5
Phenol-d6
Concen: 0.355 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

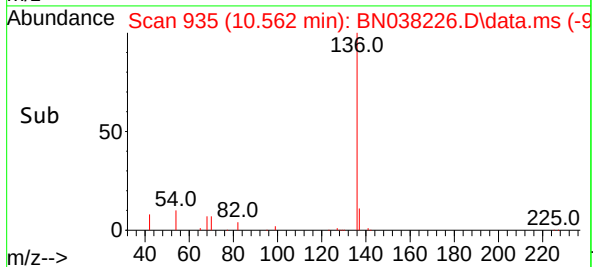
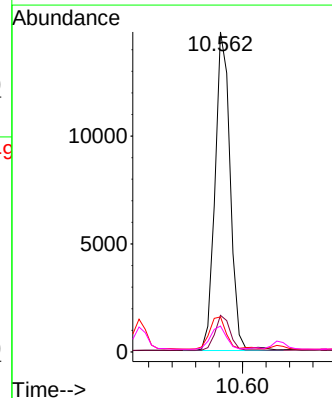
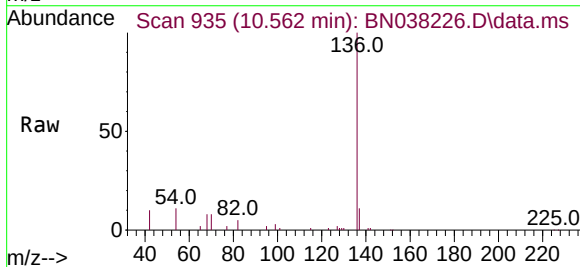
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

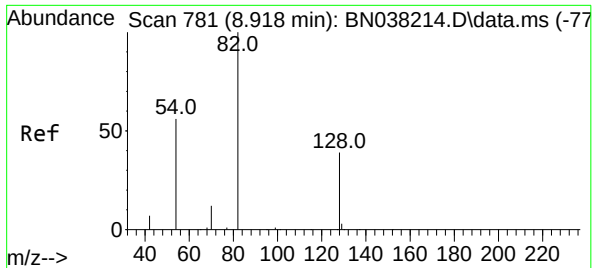
Tgt Ion:	99	Resp:	8553
Ion	Ratio	Lower	Upper
99	100		
42	22.9	17.0	25.6
71	39.1	25.4	38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:	136	Resp:	26555
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	10.9	5.4	8.0
68	8.1	4.1	6.1

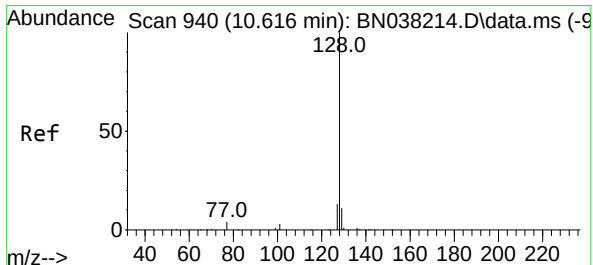
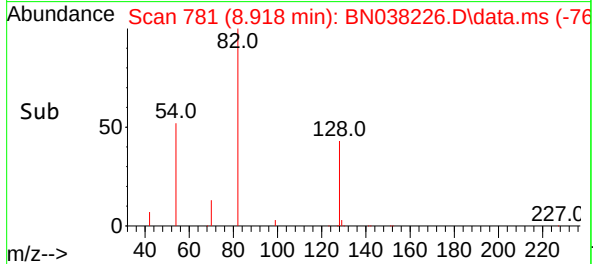
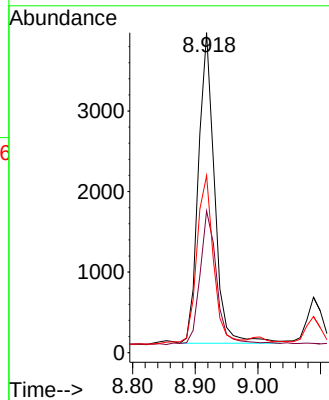
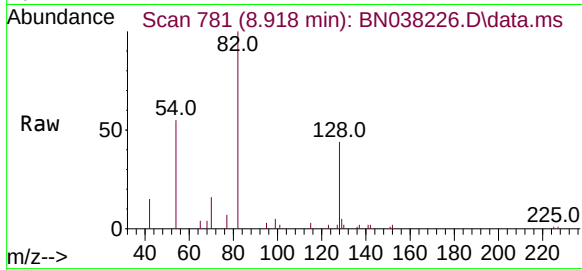




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

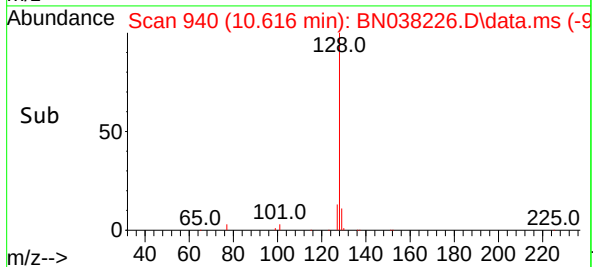
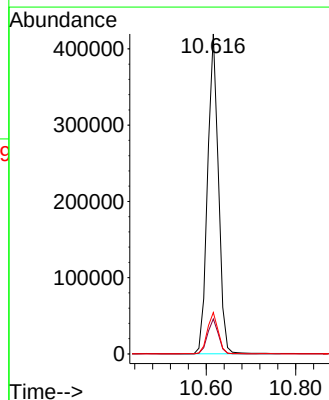
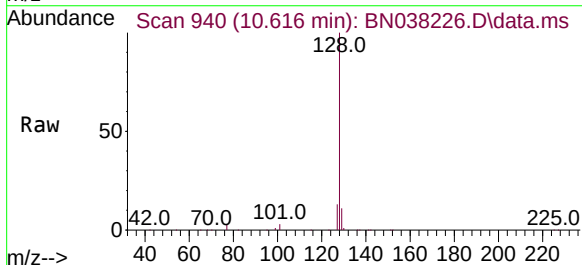
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

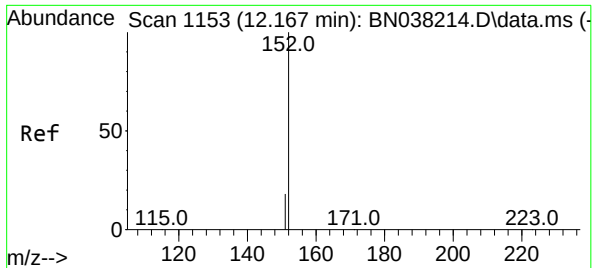
Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.3	32.6	48.8
54	55.3	45.4	68.0



#9
Naphthalene
Concen: 9.597 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	12.9	10.6	16.0

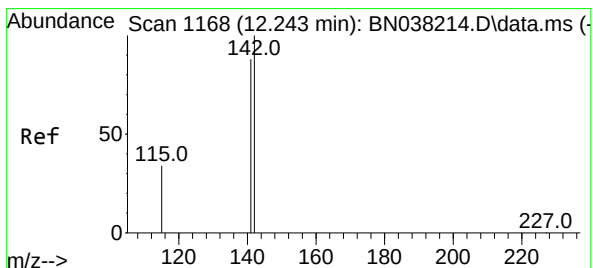
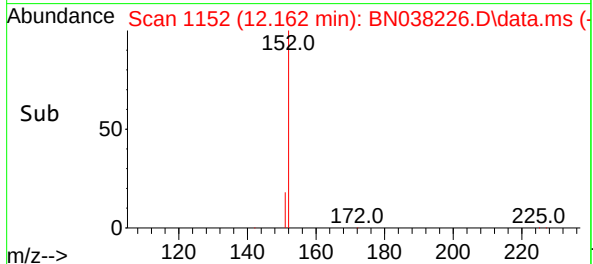
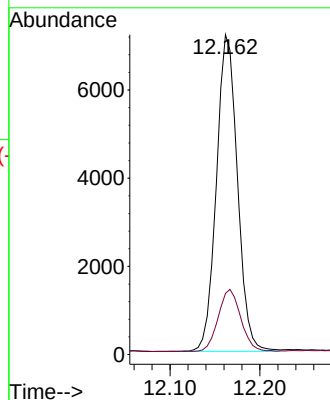
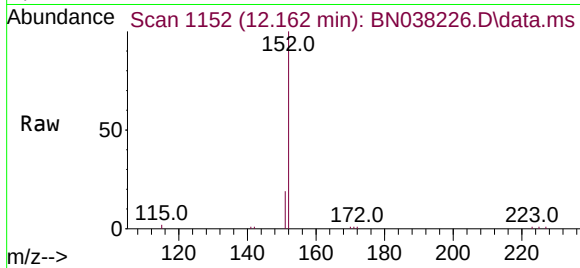




#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

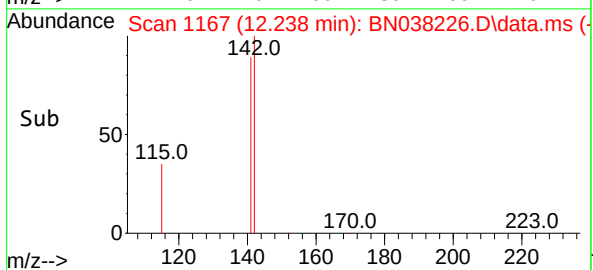
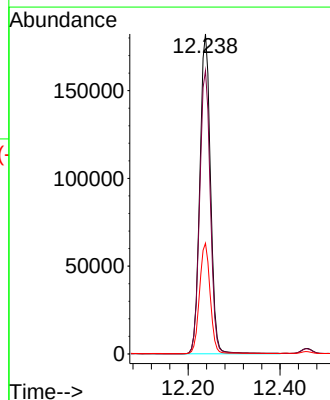
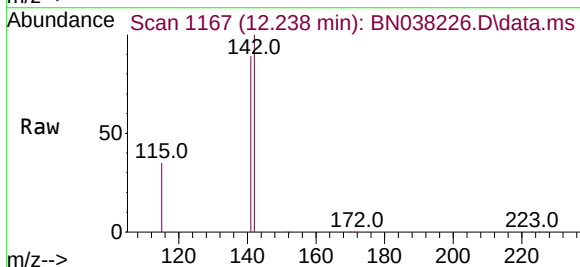
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

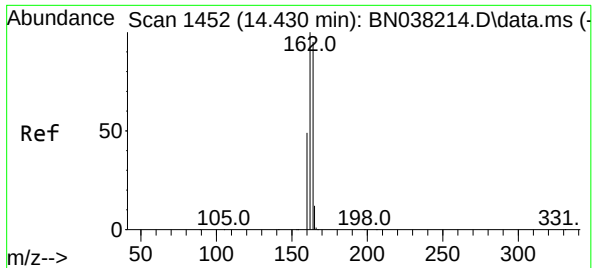
Tgt Ion:152 Resp: 11720
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1



#12
2-Methylnaphthalene
Concen: 6.022 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:142 Resp: 292224
Ion Ratio Lower Upper
142 100
141 88.5 70.9 106.3
115 34.6 27.7 41.5

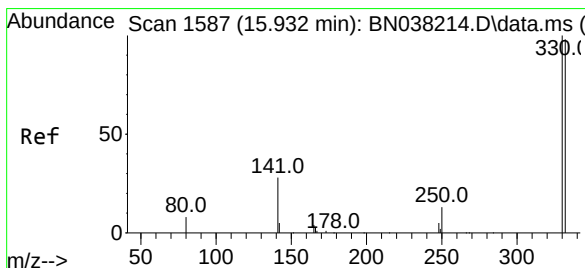
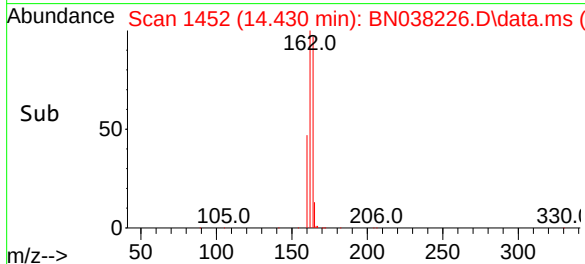
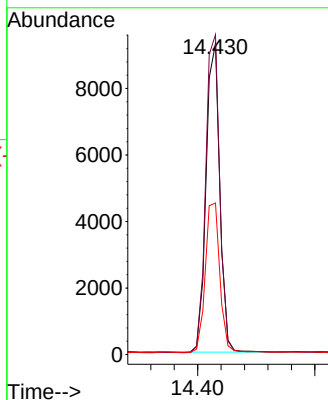
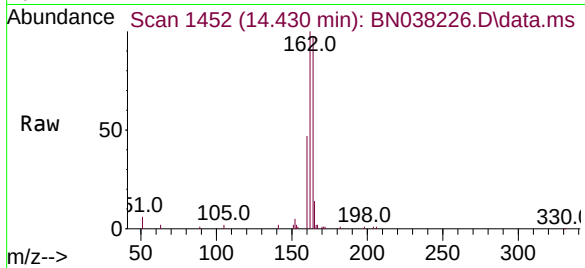




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

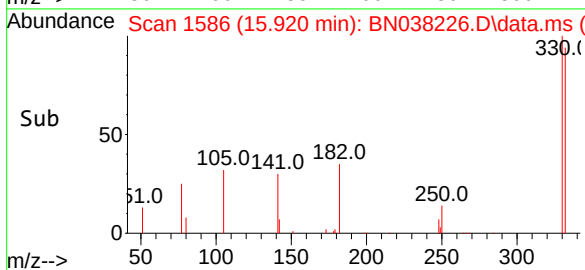
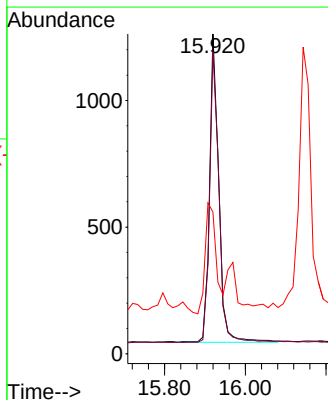
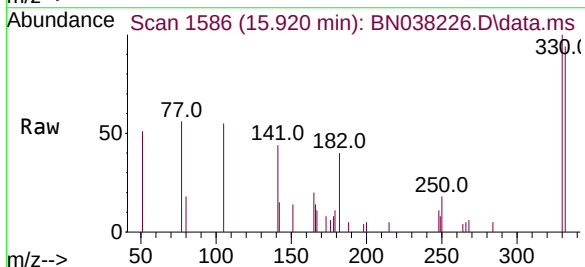
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

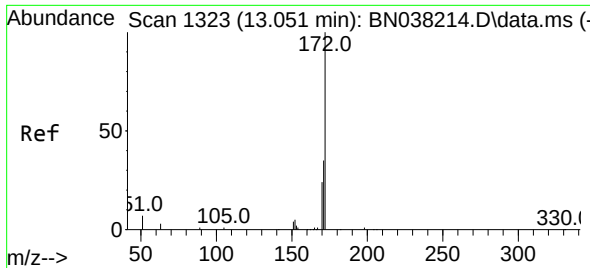
Tgt Ion:164 Resp: 15074
Ion Ratio Lower Upper
164 100
162 102.9 83.8 125.8
160 48.7 41.6 62.4



#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:330 Resp: 1932
Ion Ratio Lower Upper
330 100
332 95.7 77.8 116.6
141 43.2 33.0 49.4

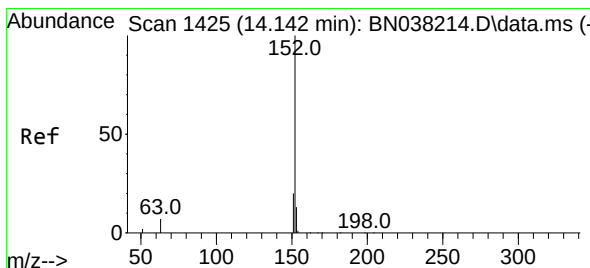
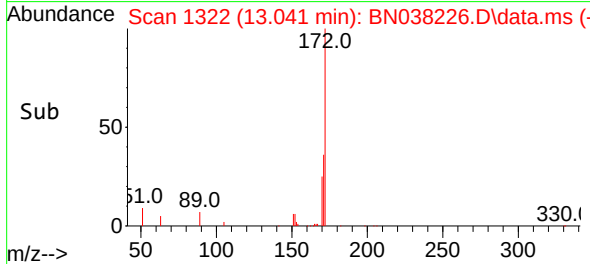
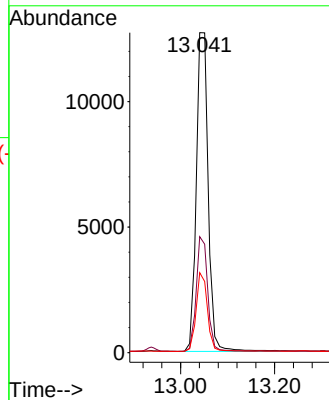
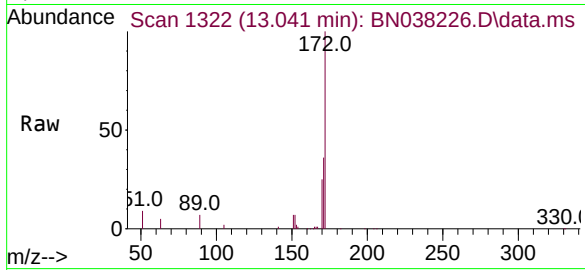




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 13.041 min Scan# 1323
Delta R.T. -0.010 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

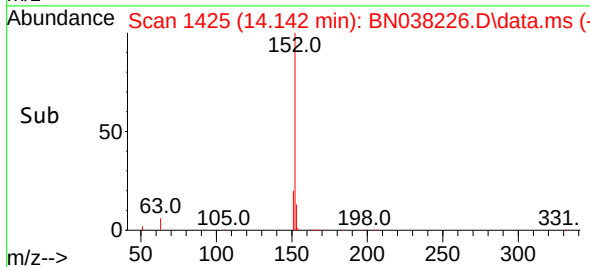
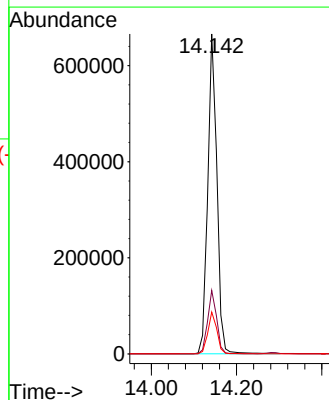
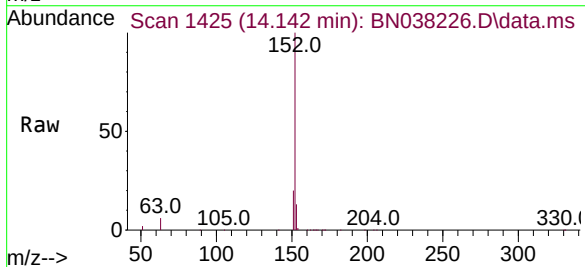
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

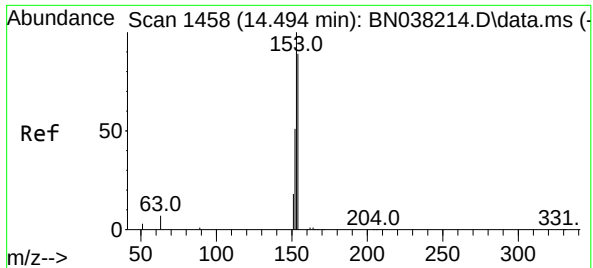
Tgt Ion:	172	Resp:	21176
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.1	42.1
170	25.0	19.1	28.7



#16
Acenaphthylene
Concen: 14.693 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:	152	Resp:	990394
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.6	23.4
153	13.1	10.6	15.8

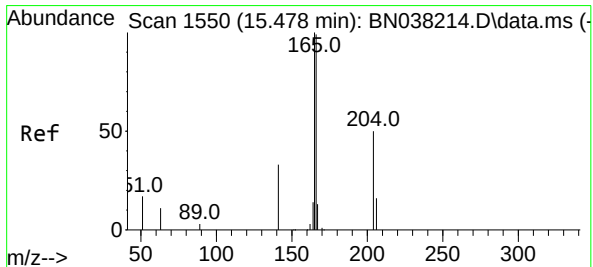
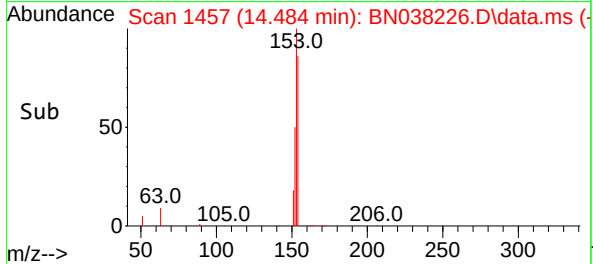
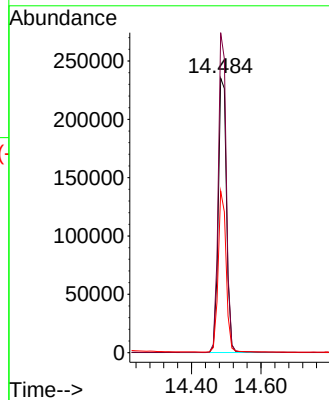
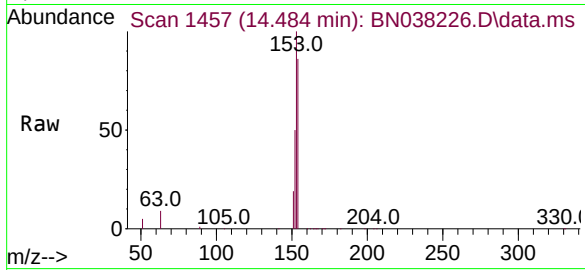




#17
Acenaphthene
Concen: 8.279 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

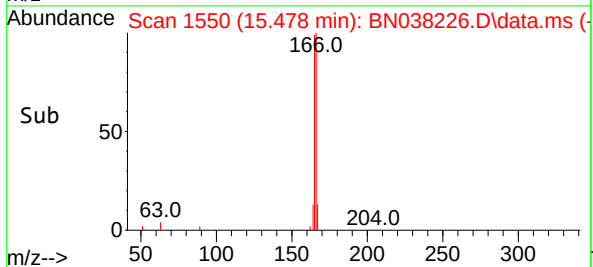
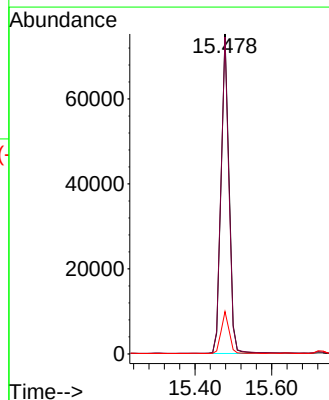
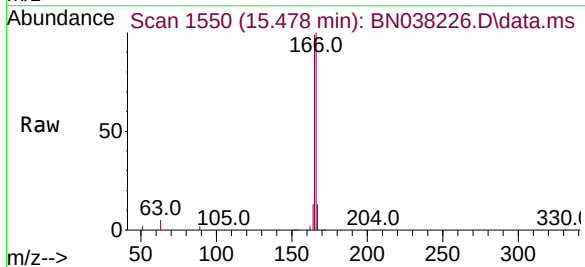
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

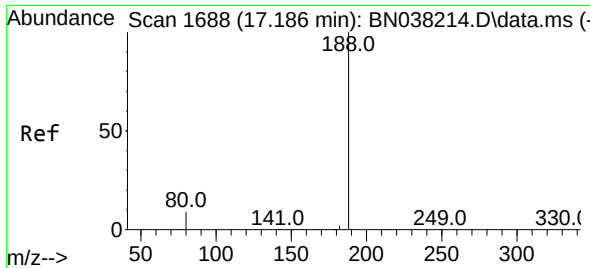
Tgt Ion:154 Resp: 389025
Ion Ratio Lower Upper
154 100
153 114.1 91.1 136.7
152 56.7 48.2 72.2



#18
Fluorene
Concen: 1.902 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:166 Resp: 115670
Ion Ratio Lower Upper
166 100
165 100.0 78.7 118.1
167 13.3 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOIL

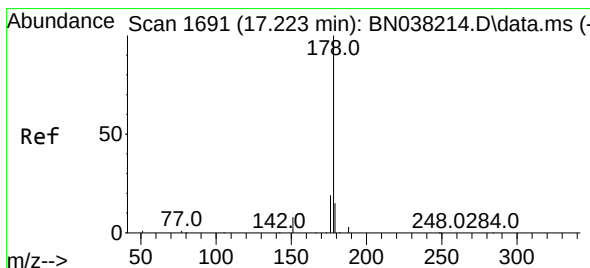
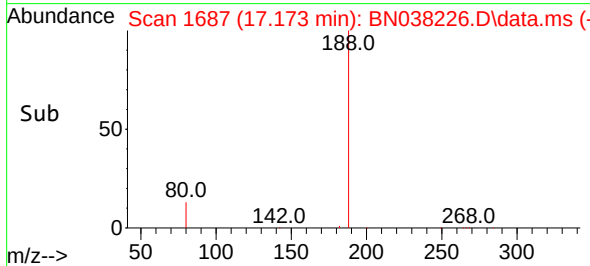
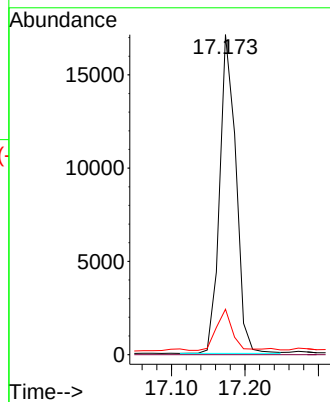
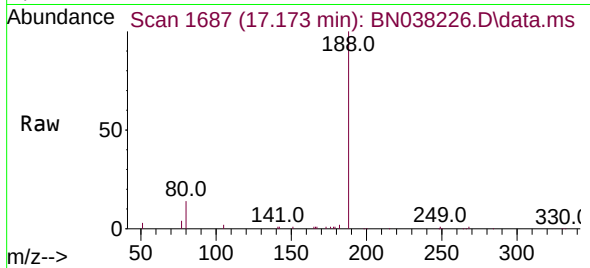
Tgt Ion:188 Resp: 26427

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.2 7.7 11.5#



#25

Phenanthrene

Concen: 17.487 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56

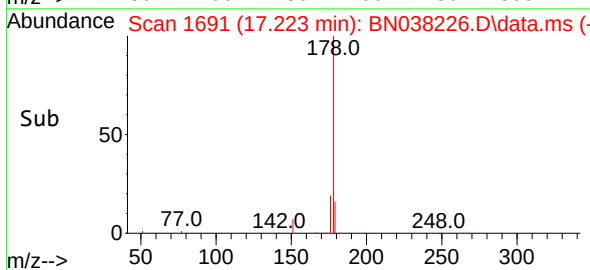
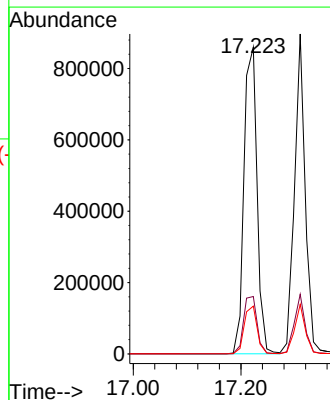
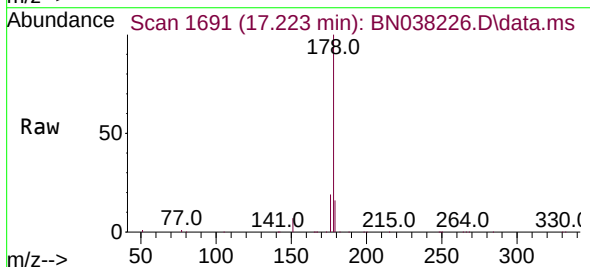
Tgt Ion:178 Resp: 1450718

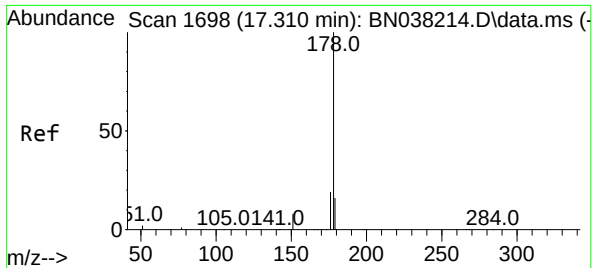
Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.4 12.0 18.0

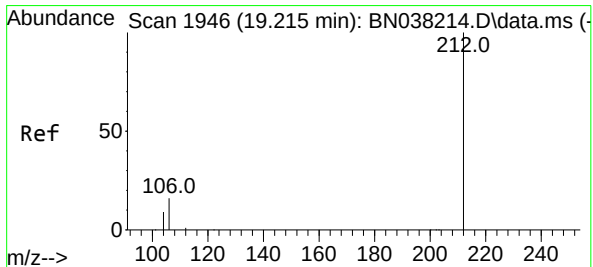
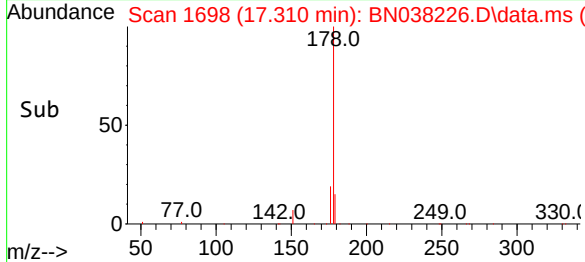
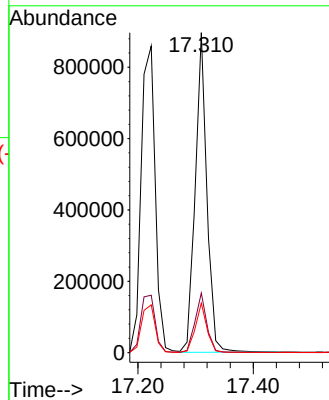
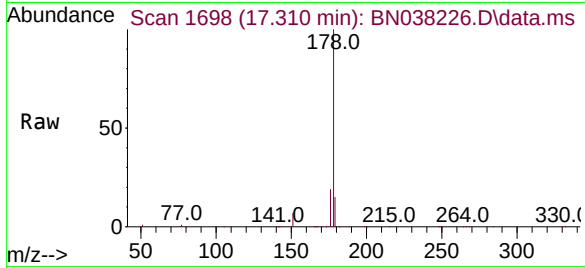




#26
Anthracene
Concen: 17.720 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

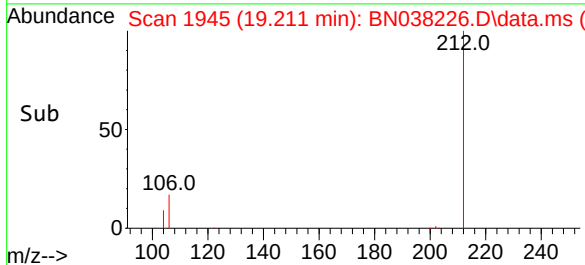
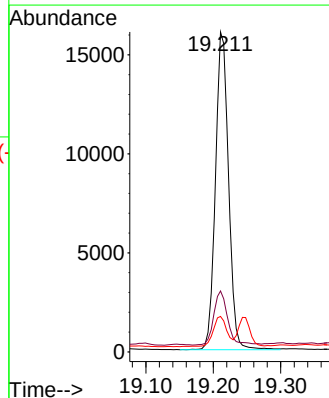
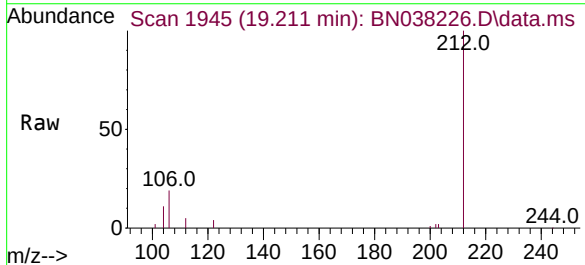
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

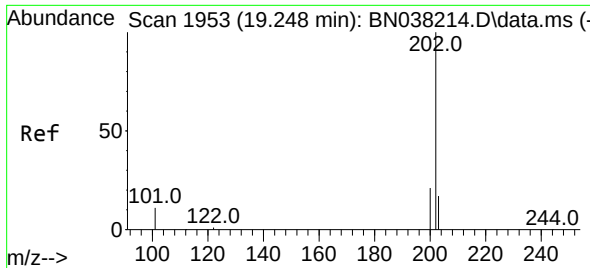
Tgt Ion:178 Resp: 1254292
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.4 12.3 18.5



#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:212 Resp: 21765
Ion Ratio Lower Upper
212 100
106 18.0 12.7 19.1
104 10.1 7.3 10.9

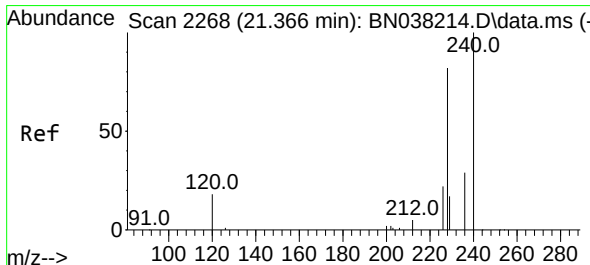
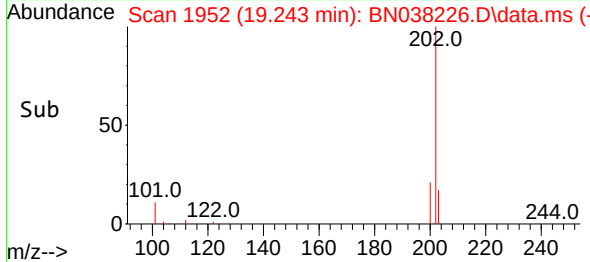
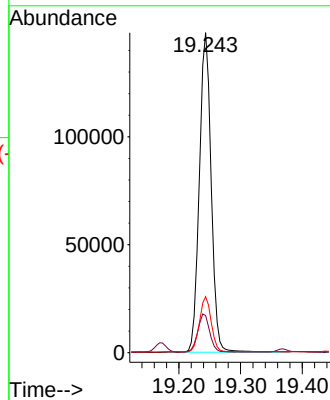
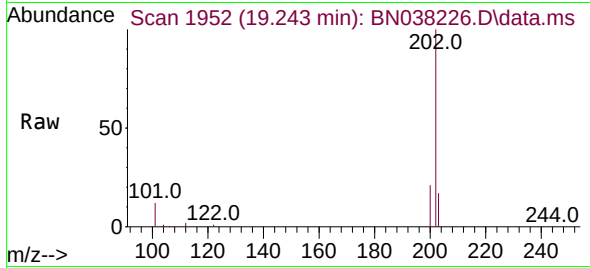




#28
Fluoranthene
Concen: 2.450 ng
RT: 19.243 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

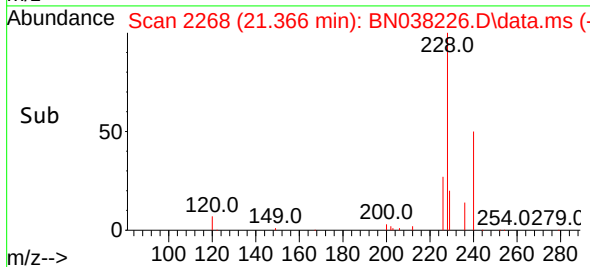
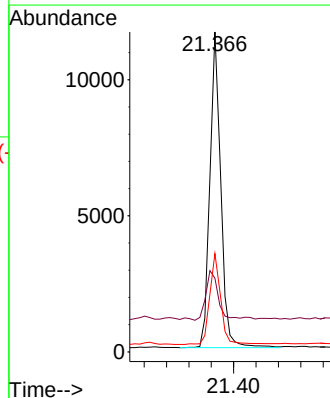
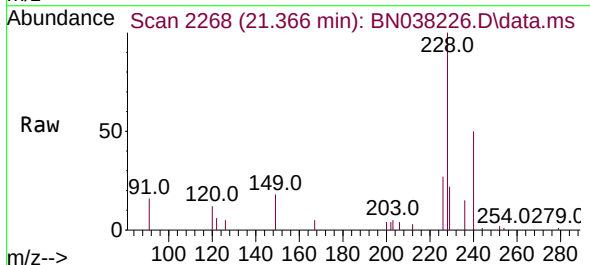
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

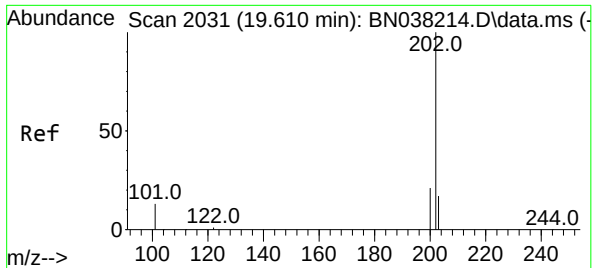
Tgt Ion:202 Resp: 195932
Ion Ratio Lower Upper
202 100
101 12.1 9.8 14.6
203 17.0 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:240 Resp: 15733
Ion Ratio Lower Upper
240 100
120 23.0 18.1 27.1
236 30.7 24.2 36.4

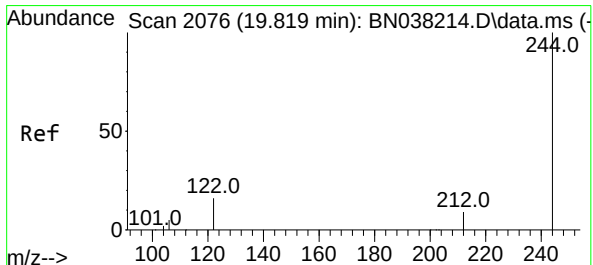
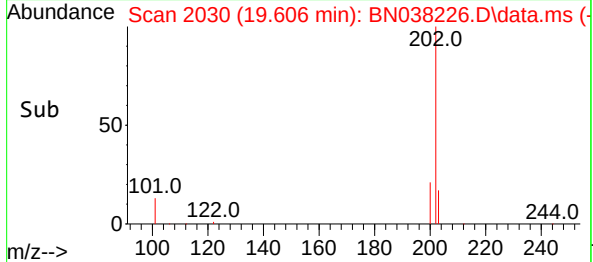
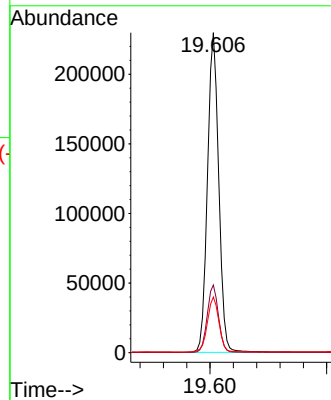
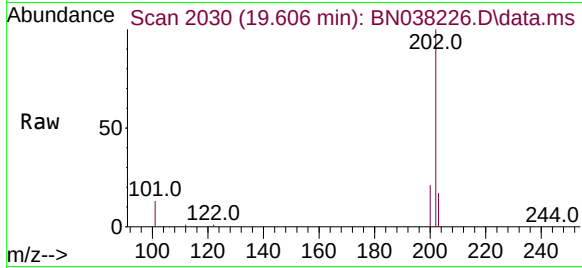




#30
Pyrene
Concen: 3.895 ng
RT: 19.606 min Scan# 2031
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

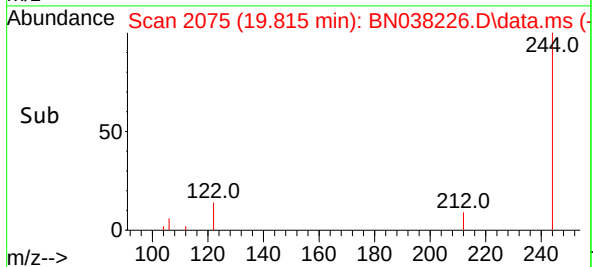
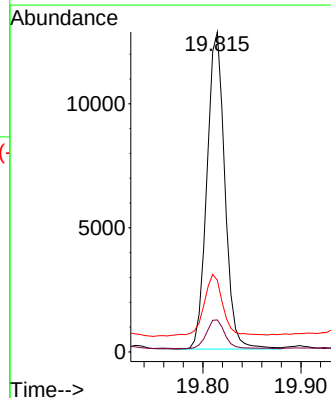
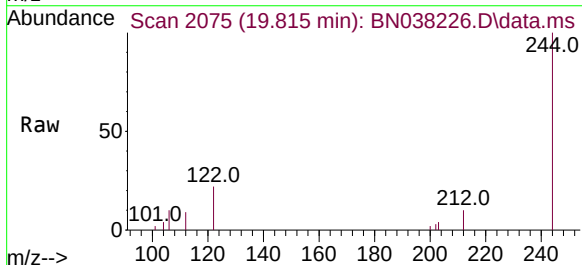
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

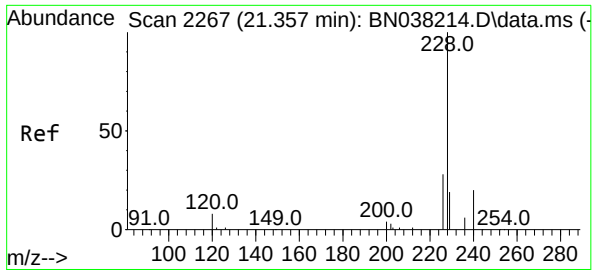
Tgt Ion:202 Resp: 306052
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.4 21.6



#31
Terphenyl-d14
Concen: 0.445 ng
RT: 19.815 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:244 Resp: 16178
Ion Ratio Lower Upper
244 100
212 10.0 7.7 11.5
122 22.4 13.6 20.4#

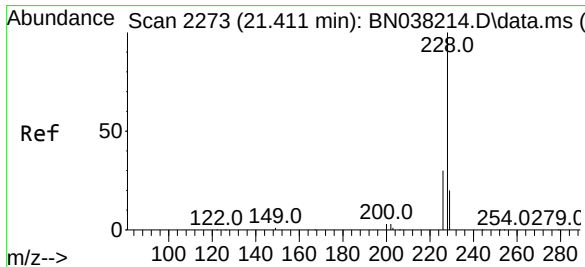
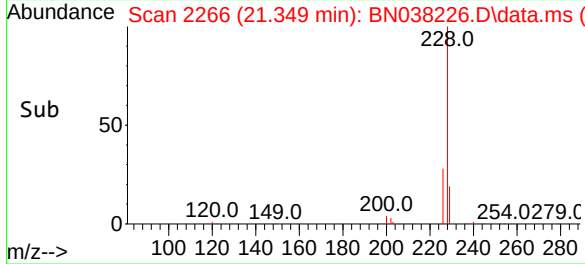
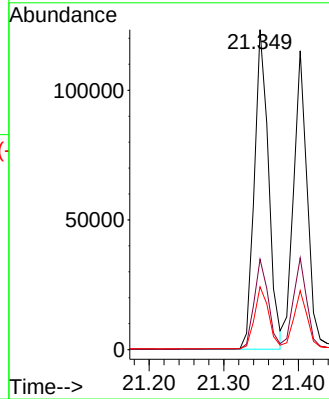
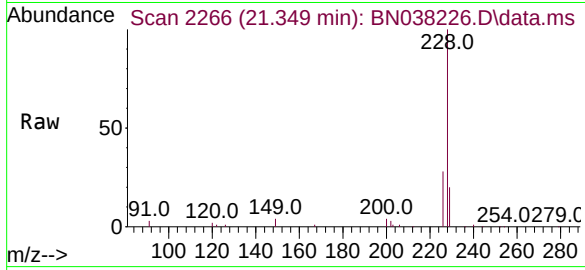




#32
Benzo(a)anthracene
Concen: 3.047 ng
RT: 21.349 min Scan# 21349
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

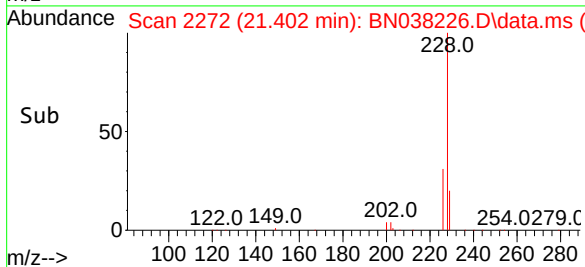
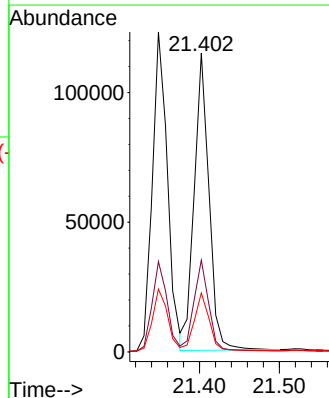
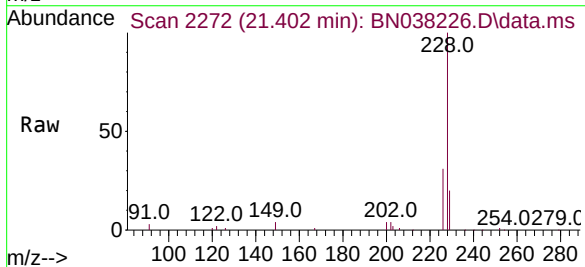
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

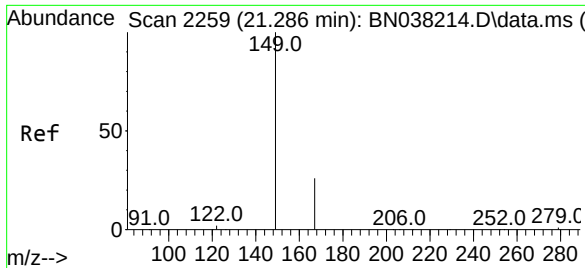
Tgt Ion:228 Resp: 162332
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.6 15.8 23.8



#33
Chrysene
Concen: 2.341 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:228 Resp: 147180
Ion Ratio Lower Upper
228 100
226 30.7 23.8 35.8
229 19.7 16.1 24.1

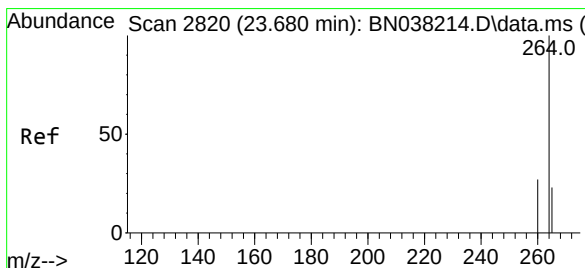
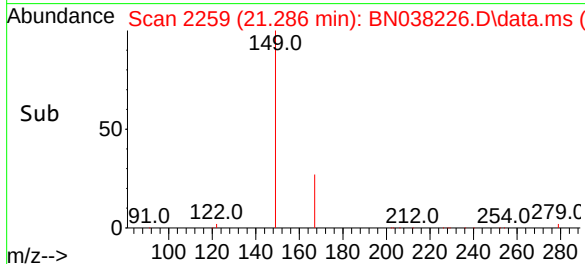
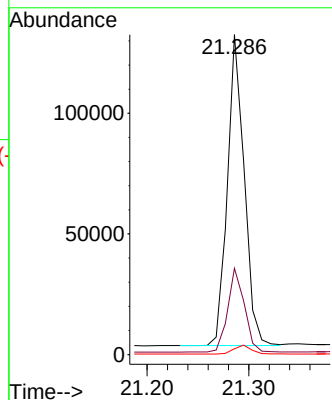
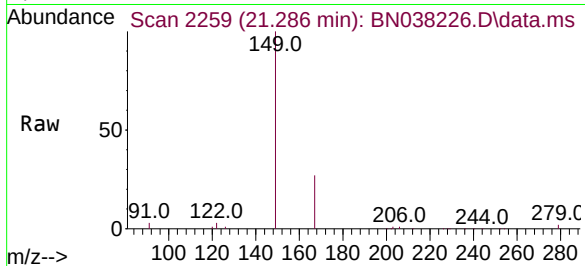




#34
Bis(2-ethylhexyl)phthalate
Concen: 5.074 ng
RT: 21.286 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

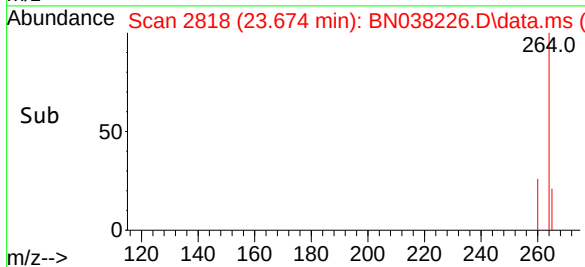
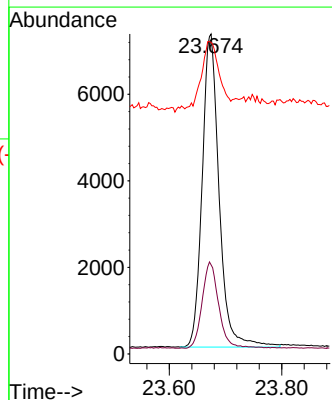
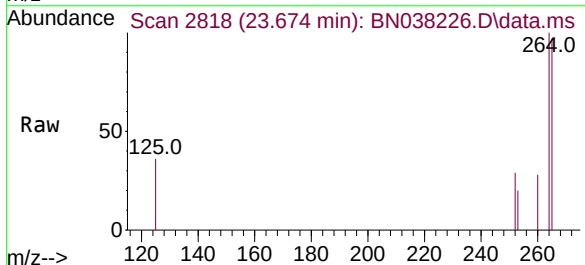
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

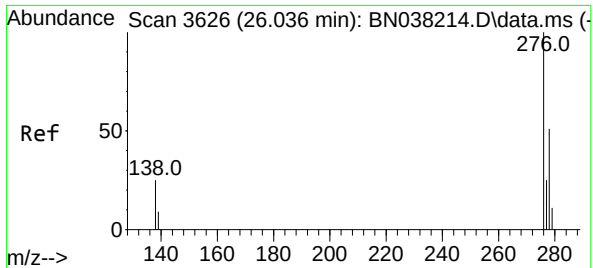
Tgt Ion:149 Resp: 148034
Ion Ratio Lower Upper
149 100
167 26.6 20.7 31.1
279 2.9 2.5 3.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 2818
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

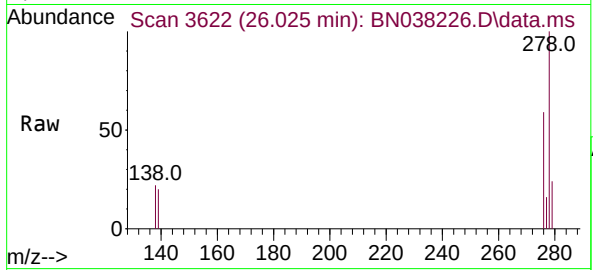
Tgt Ion:264 Resp: 15160
Ion Ratio Lower Upper
264 100
260 27.8 21.7 32.5
265 97.4 98.0 147.0#



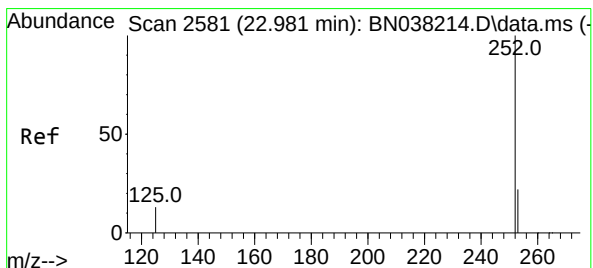
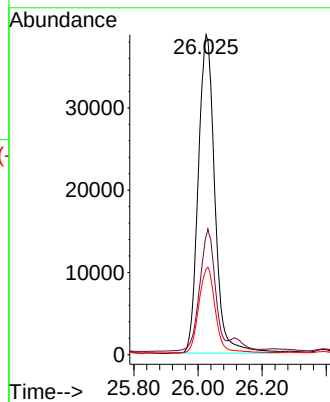
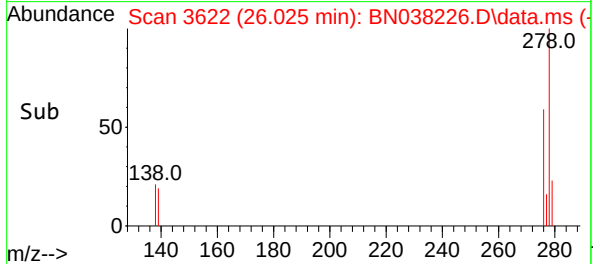


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.981 ng
RT: 26.025 min Scan# 3626
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL

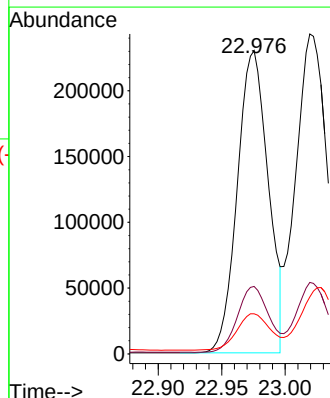
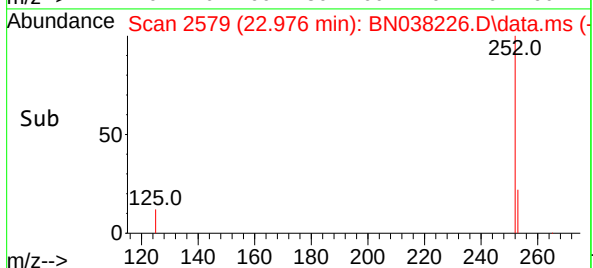
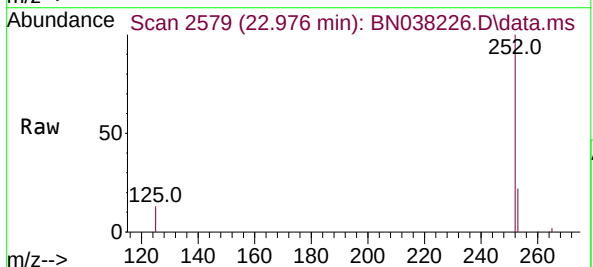


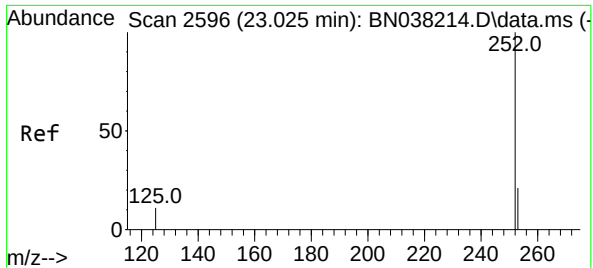
Tgt Ion:276 Resp: 138980
Ion Ratio Lower Upper
276 100
138 35.6 21.4 32.2#
277 25.9 19.1 28.7



#37
Benzo(b)fluoranthene
Concen: 6.244 ng
RT: 22.976 min Scan# 2579
Delta R.T. -0.006 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

Tgt Ion:252 Resp: 388530
Ion Ratio Lower Upper
252 100
253 22.2 22.2 33.4#
125 13.2 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 6.531 ng

RT: 23.019 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038226.D

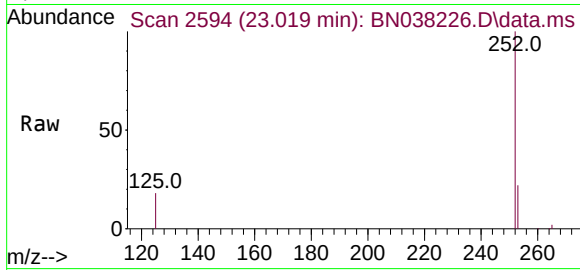
Acq: 01 Dec 2025 14:56

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOIL



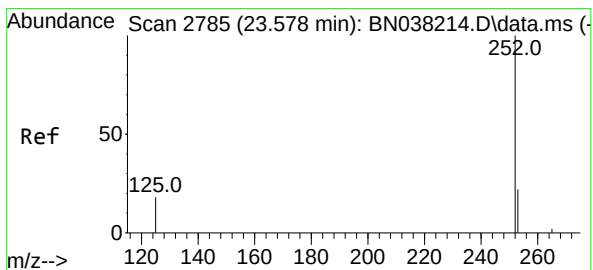
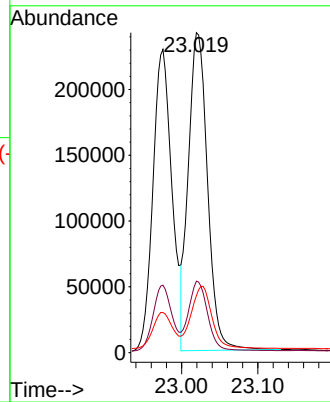
Tgt Ion:252 Resp: 422476

Ion Ratio Lower Upper

252 100

253 22.3 22.4 33.6#

125 17.8 17.5 26.3



#39

Benzo(a)pyrene

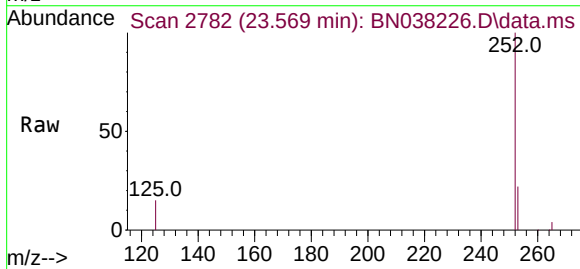
Concen: 5.560 ng

RT: 23.569 min Scan# 2782

Delta R.T. -0.009 min

Lab File: BN038226.D

Acq: 01 Dec 2025 14:56



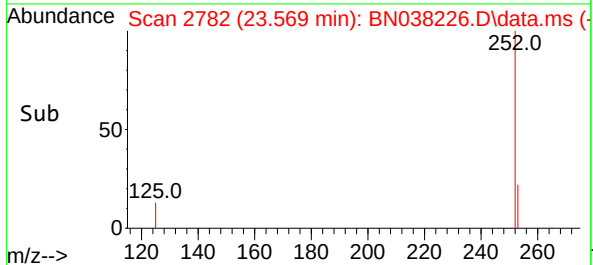
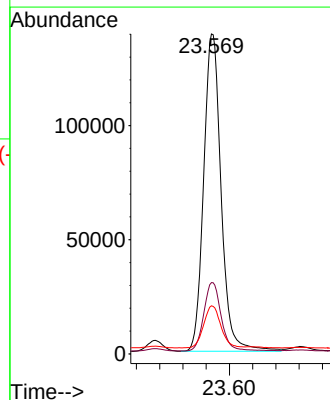
Tgt Ion:252 Resp: 290001

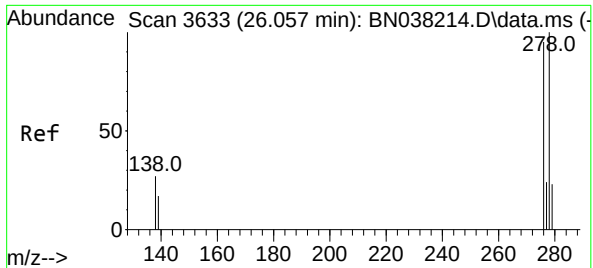
Ion Ratio Lower Upper

252 100

253 22.3 25.3 37.9#

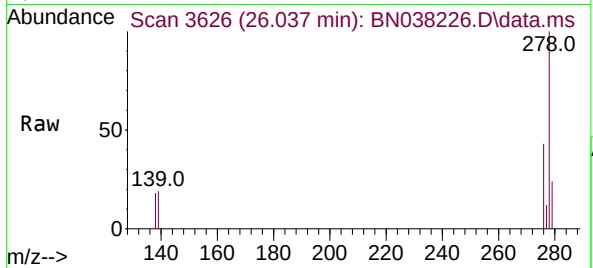
125 15.0 25.2 37.8#



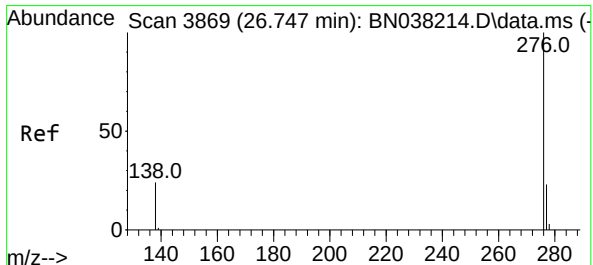
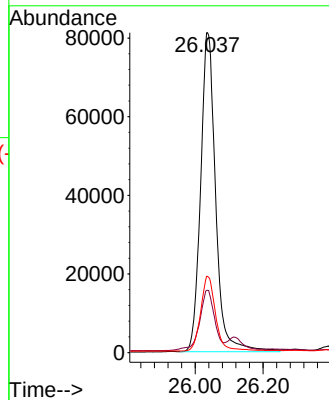
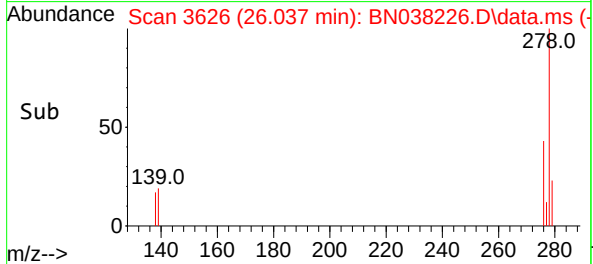


#40
Dibenzo(a,h)anthracene
Concen: 4.706 ng
RT: 26.037 min Scan# 3626
Delta R.T. -0.020 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56

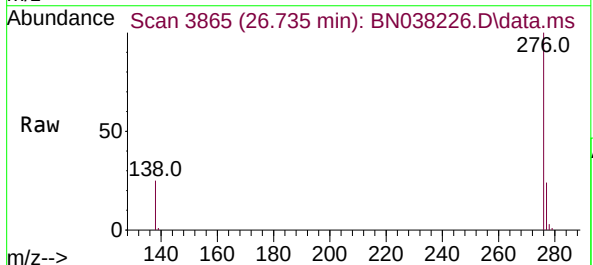
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOIL



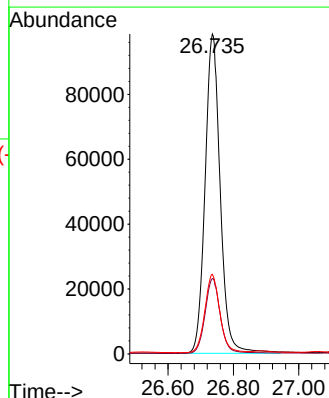
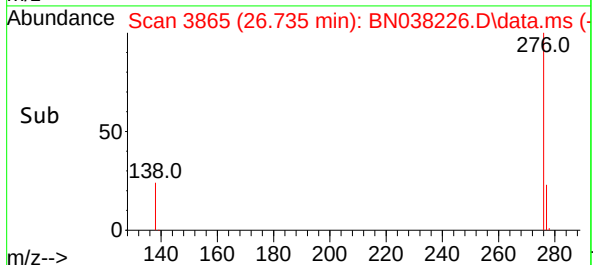
Tgt Ion:278 Resp: 249956
Ion Ratio Lower Upper
278 100
139 19.5 17.6 26.4
279 23.8 24.2 36.4#



#41
Benzo(g,h,i)perylene
Concen: 5.013 ng
RT: 26.735 min Scan# 3865
Delta R.T. -0.012 min
Lab File: BN038226.D
Acq: 01 Dec 2025 14:56



Tgt Ion:276 Resp: 318151
Ion Ratio Lower Upper
276 100
277 23.5 20.2 30.2
138 24.9 20.8 31.2





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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: HW1025-PT-PAH-SOILDL
Lab Sample ID: Q3483-13DL
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.21 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected: 10/27/25
Date Received: 10/29/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 100
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	310	D	10	11.5	32.8	ug/Kg	12/01/25 15:49	PB170590
91-57-6	2-Methylnaphthalene	190	D	10	11.8	32.8	ug/Kg	12/01/25 15:49	PB170590
208-96-8	Acenaphthylene	420	D	10	10.7	32.8	ug/Kg	12/01/25 15:49	PB170590
83-32-9	Acenaphthene	260	D	10	11.1	32.8	ug/Kg	12/01/25 15:49	PB170590
86-73-7	Fluorene	56.6	D	10	11.2	32.8	ug/Kg	12/01/25 15:49	PB170590
85-01-8	Phenanthrene	560	D	10	11.5	32.8	ug/Kg	12/01/25 15:49	PB170590
120-12-7	Anthracene	530	D	10	12.1	32.8	ug/Kg	12/01/25 15:49	PB170590
206-44-0	Fluoranthene	78.8	D	10	11.8	32.8	ug/Kg	12/01/25 15:49	PB170590
129-00-0	Pyrene	130	D	10	10.7	32.8	ug/Kg	12/01/25 15:49	PB170590
56-55-3	Benzo(a)anthracene	94.7	D	10	12.8	32.8	ug/Kg	12/01/25 15:49	PB170590
218-01-9	Chrysene	74.8	D	10	13.6	32.8	ug/Kg	12/01/25 15:49	PB170590
205-99-2	Benzo(b)fluoranthene	210	D	10	15.7	32.8	ug/Kg	12/01/25 15:49	PB170590
207-08-9	Benzo(k)fluoranthene	210	D	10	18.3	32.8	ug/Kg	12/01/25 15:49	PB170590
50-32-8	Benzo(a)pyrene	180	D	10	14.2	32.8	ug/Kg	12/01/25 15:49	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	61.2	D	10	17.7	32.8	ug/Kg	12/01/25 15:49	PB170590
53-70-3	Dibenzo(a,h)anthracene	140	D	10	17.9	32.8	ug/Kg	12/01/25 15:49	PB170590
191-24-2	Benzo(g,h,i)perylene	160	D	10	16.8	32.8	ug/Kg	12/01/25 15:49	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.30			17 - 161	75%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.37			23 - 138	93%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.34			33 - 121	85%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.52	*		32 - 121	130%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.75	*		21 - 130	188%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	9010							
1146-65-2	Naphthalene-d8	29200							
15067-26-2	Acenaphthene-d10	16900							
1517-22-2	Phenanthrene-d10	29700							
1719-03-5	Chrysene-d12	17400							
1520-96-3	Perylene-d12	15700							

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\BN120125\
 Data File : BN038227.D
 Acq On : 01 Dec 2025 15:49
 Operator : RC/JU
 Sample : Q3483-13DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW1025-PT-PAH-SOILDL

Quant Time: Dec 01 16:13:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

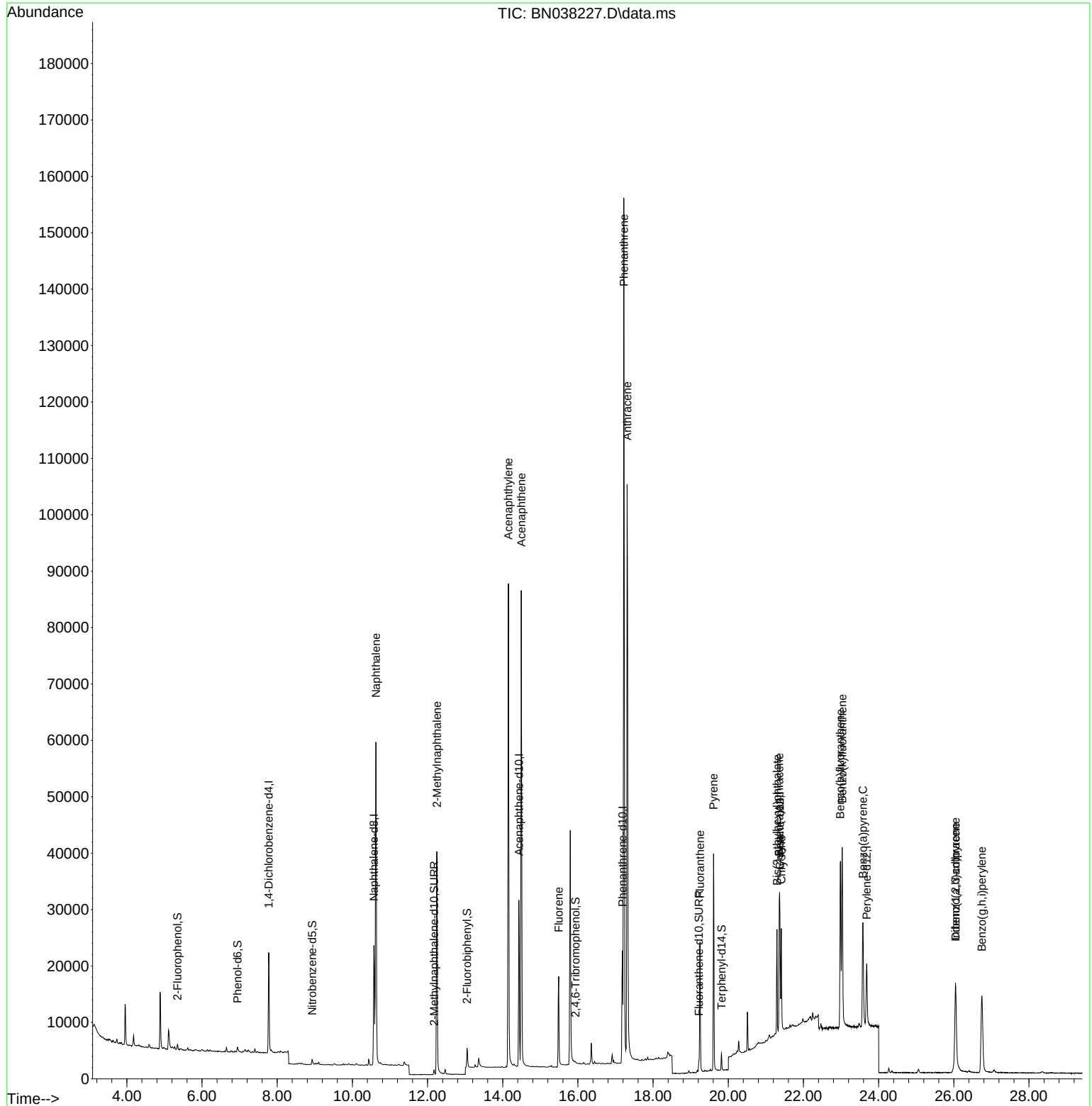
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.775	152	9014	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	29234	0.400	ng	# 0.00
13) Acenaphthene-d10	14.430	164	16868	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	29662	0.400	ng	0.00
29) Chrysene-d12	21.375	240	17379	0.400	ng	# 0.00
35) Perylene-d12	23.683	264	15679	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	793	0.038	ng	0.00
5) Phenol-d6	6.944	99	987	0.037	ng	0.00
8) Nitrobenzene-d5	8.929	82	804	0.034	ng	0.01
11) 2-Methylnaphthalene-d10	12.172	152	1260	0.030	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	220	0.041	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	3384	0.052	ng	0.00
27) Fluoranthene-d10	19.220	212	2366	0.037	ng	0.00
31) Terphenyl-d14	19.819	244	3027	0.075	ng	0.00
Target Compounds						
						Qvalue
9) Naphthalene	10.626	128	75377	0.929	ng	99
12) 2-Methylnaphthalene	12.248	142	30892	0.578	ng	99
16) Acenaphthylene	14.152	152	96592	1.281	ng	99
17) Acenaphthene	14.495	154	41002	0.780	ng	99
18) Fluorene	15.489	166	11649	0.171	ng	98
25) Phenanthrene	17.223	178	156682	1.683	ng	100
26) Anthracene	17.310	178	126665	1.594	ng	99
28) Fluoranthene	19.248	202	21327	0.238	ng	99
30) Pyrene	19.610	202	34034	0.392	ng	99
32) Benzo(a)anthracene	21.358	228	16827	0.286	ng	99
33) Chrysene	21.411	228	15731	0.226	ng	98
34) Bis(2-ethylhexyl)phtha...	21.295	149	17331	0.538	ng	99
36) Indeno(1,2,3-cd)pyrene	26.042	276	13412	0.185	ng	# 85
37) Benzo(b)fluoranthene	22.981	252	39949	0.621	ng	95
38) Benzo(k)fluoranthene	23.031	252	43337	0.648	ng	97
39) Benzo(a)pyrene	23.581	252	29015	0.538	ng	95
40) Dibenzo(a,h)anthracene	26.048	278	23832	0.434	ng	97
41) Benzo(g,h,i)perylene	26.747	276	30860	0.470	ng	99

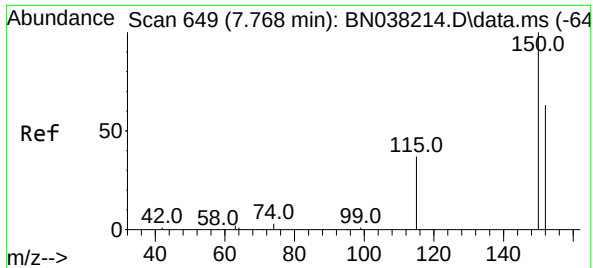
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038227.D
Acq On : 01 Dec 2025 15:49
Operator : RC/JU
Sample : Q3483-13DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILDL

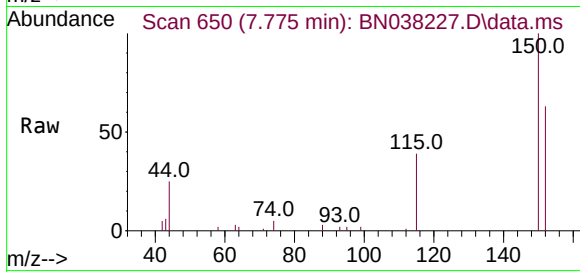
Quant Time: Dec 01 16:13:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



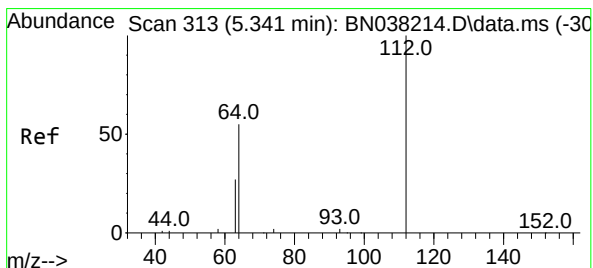
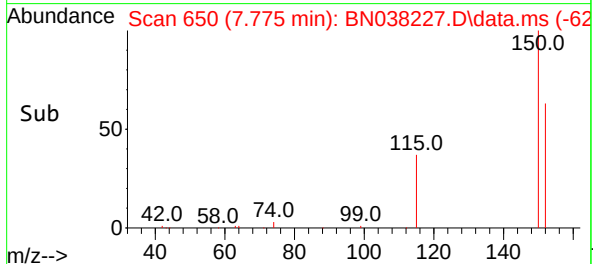
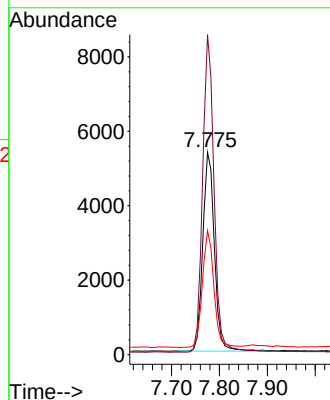


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.775 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

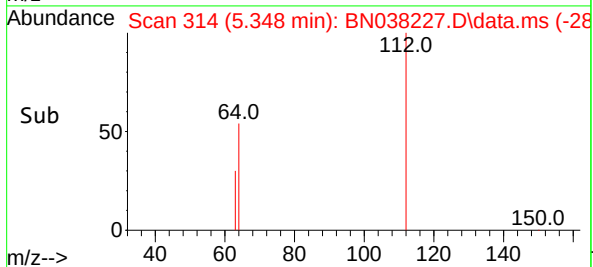
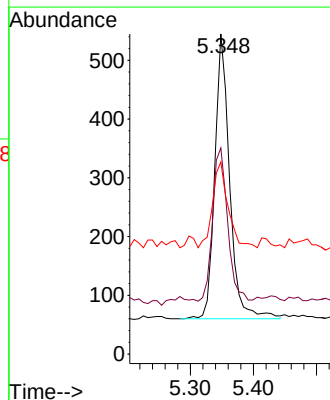
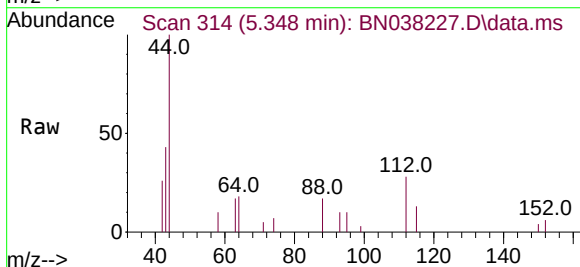


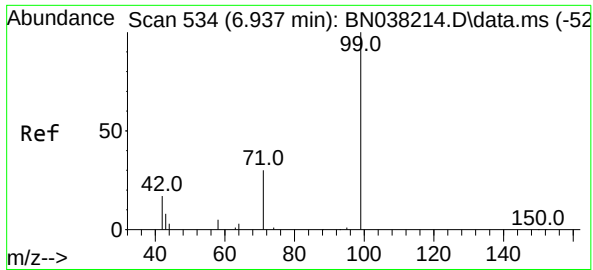
Tgt Ion	Ratio	Lower	Upper
152	100		
150	158.2	125.3	187.9
115	61.3	49.0	73.4



#4
2-Fluorophenol
Concen: 0.038 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.007 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.0	45.0	67.4
63	32.2	23.2	34.8

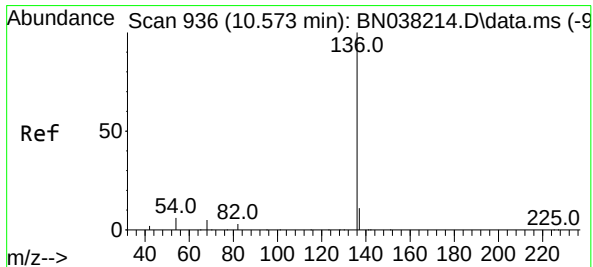
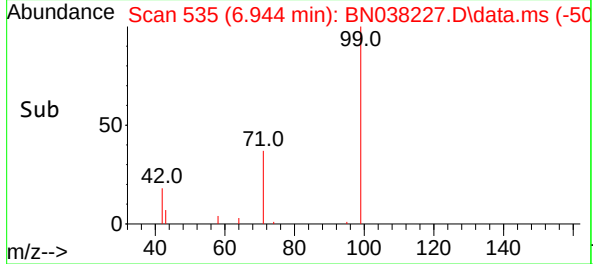
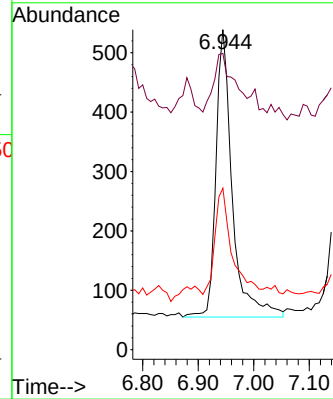
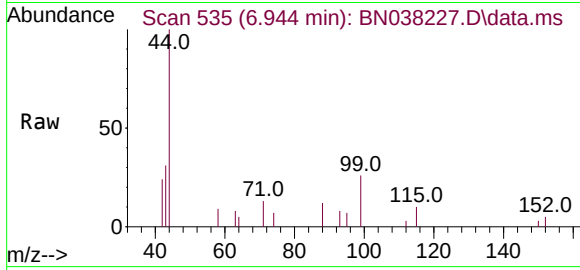




#5
Phenol-d6
Concen: 0.037 ng
RT: 6.944 min Scan# 534
Delta R.T. 0.007 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

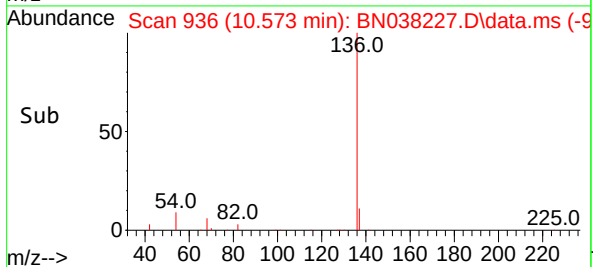
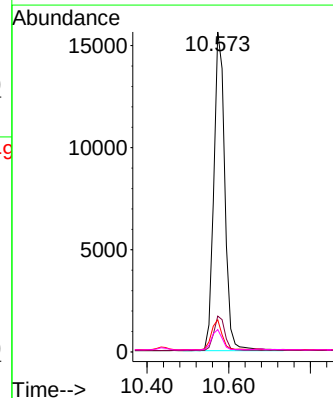
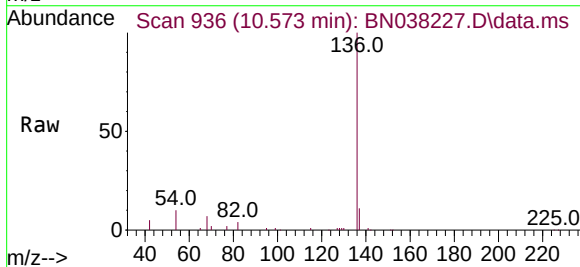
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

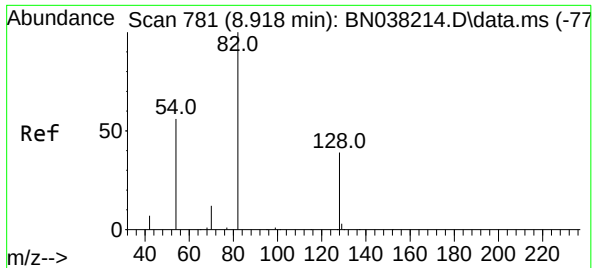
Tgt Ion: 99 Resp: 987
Ion Ratio Lower Upper
99 100
42 31.7 17.0 25.6#
71 38.2 25.4 38.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion: 136 Resp: 29234
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 10.0 5.4 8.0#
68 7.0 4.1 6.1#

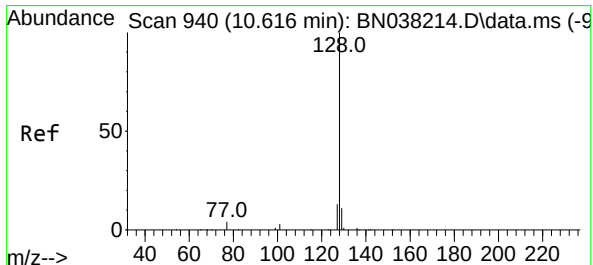
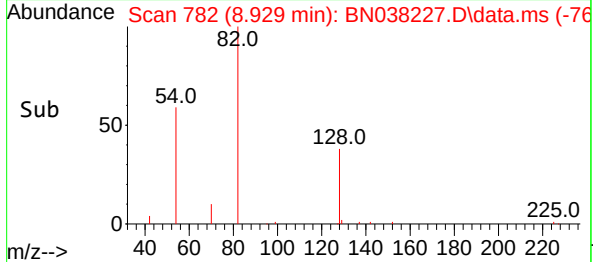
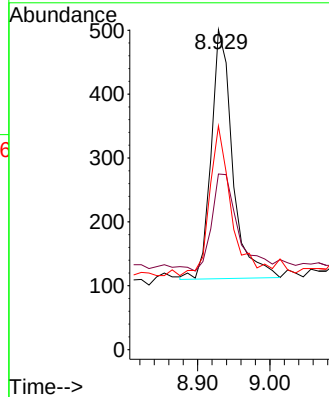
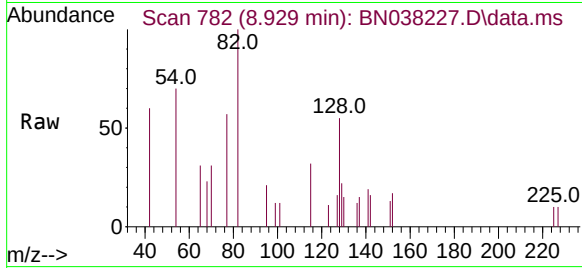




#8
Nitrobenzene-d5
Concen: 0.034 ng
RT: 8.929 min Scan# 781
Delta R.T. 0.011 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

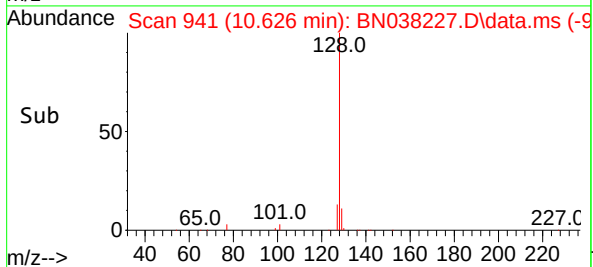
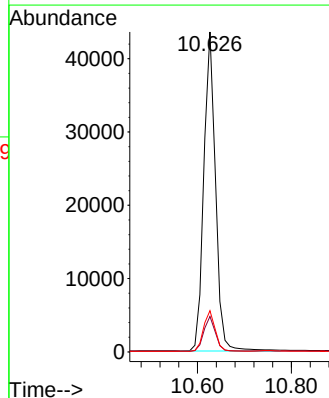
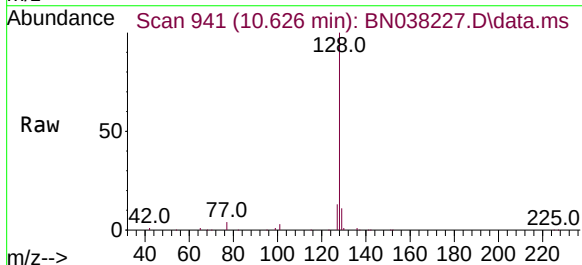
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

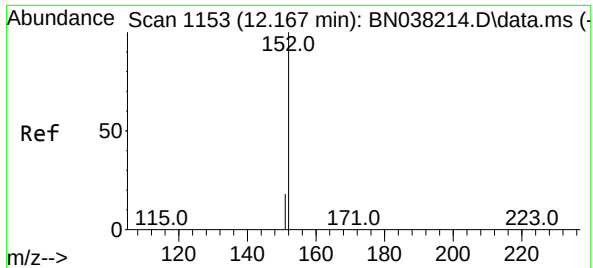
Tgt Ion:	82	Resp:	804
Ion	Ratio	Lower	Upper
82	100		
128	54.9	32.6	48.8#
54	69.9	45.4	68.0#



#9
Naphthalene
Concen: 0.929 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.011 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:	128	Resp:	75377
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	12.9	10.6	16.0

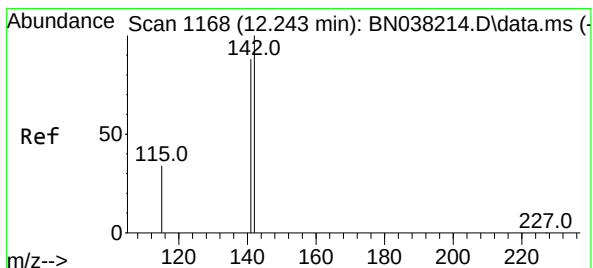
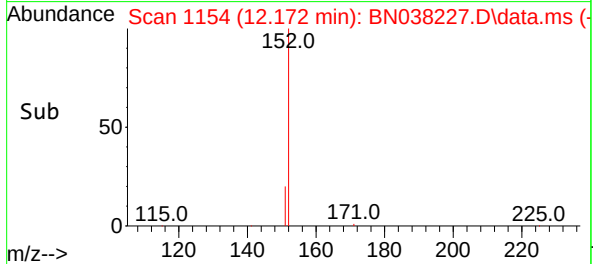
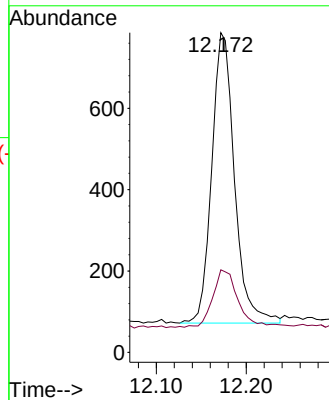
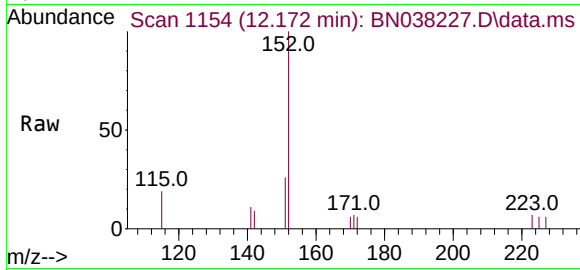




#11
2-Methylnaphthalene-d10
Concen: 0.030 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

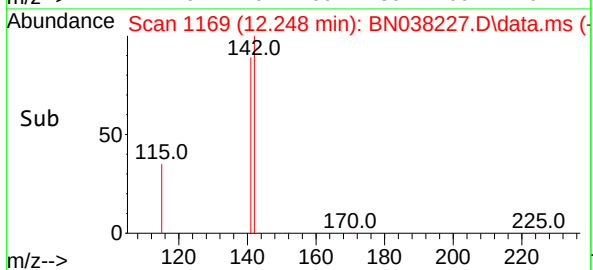
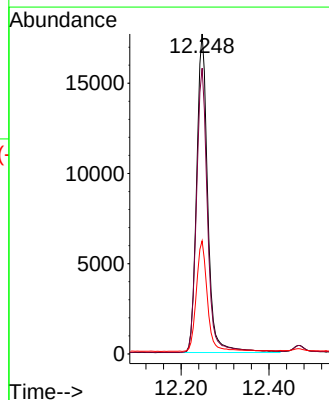
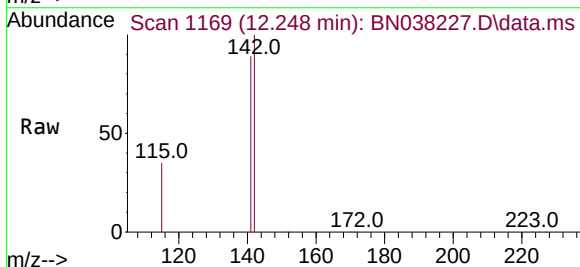
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

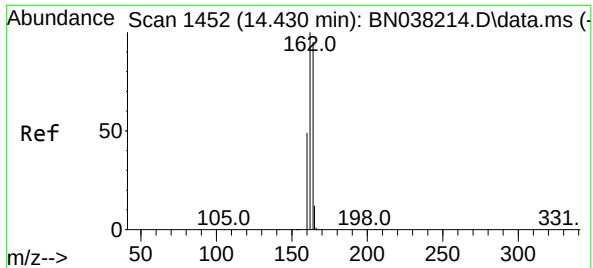
Tgt Ion:152 Resp: 1260
Ion Ratio Lower Upper
152 100
151 22.2 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.578 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.005 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:142 Resp: 30892
Ion Ratio Lower Upper
142 100
141 89.3 70.9 106.3
115 35.3 27.7 41.5

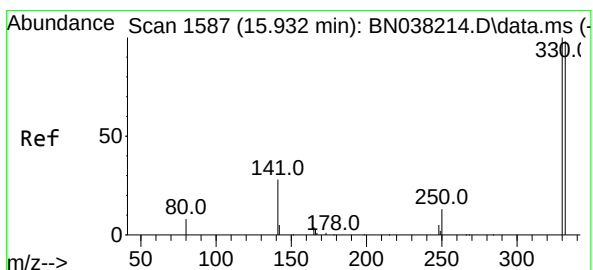
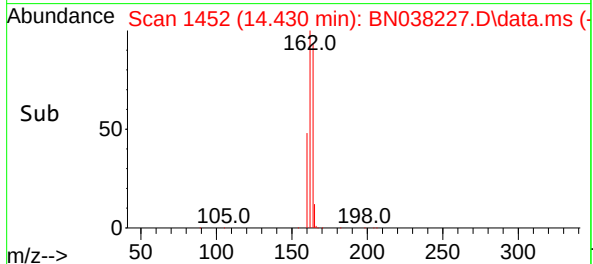
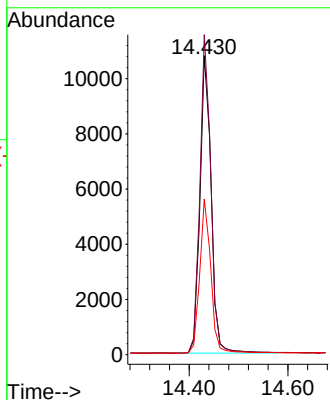
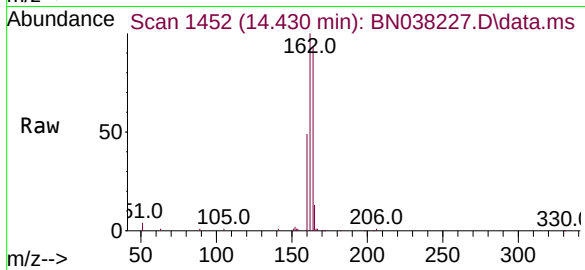




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

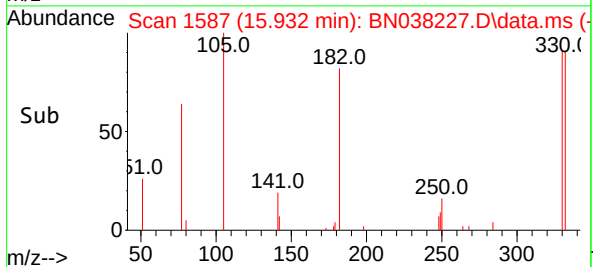
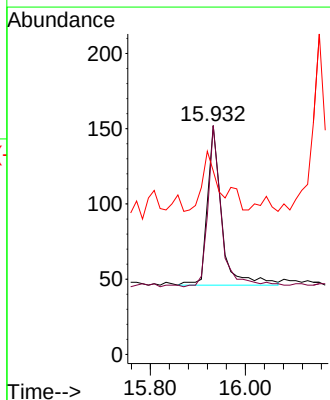
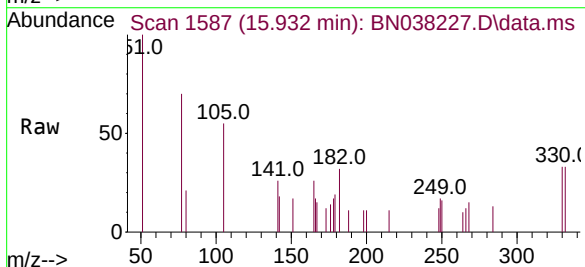
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

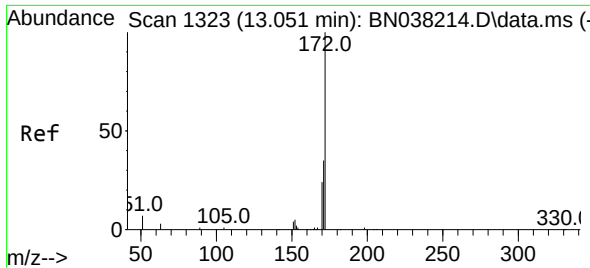
Tgt Ion:164 Resp: 16868
Ion Ratio Lower Upper
164 100
162 107.0 83.8 125.8
160 52.0 41.6 62.4



#14
2,4,6-Tribromophenol
Concen: 0.041 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:330 Resp: 220
Ion Ratio Lower Upper
330 100
332 96.4 77.8 116.6
141 41.8 33.0 49.4

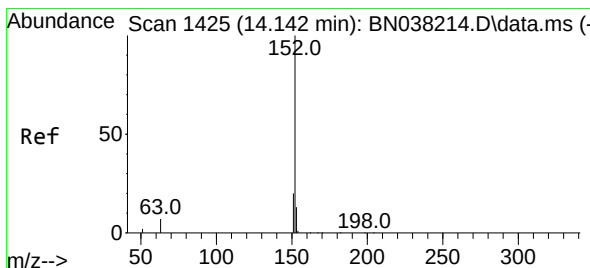
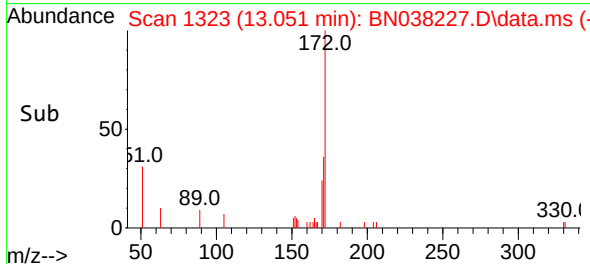
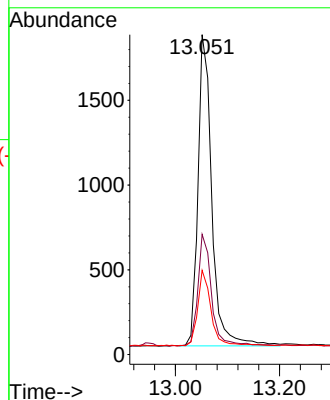
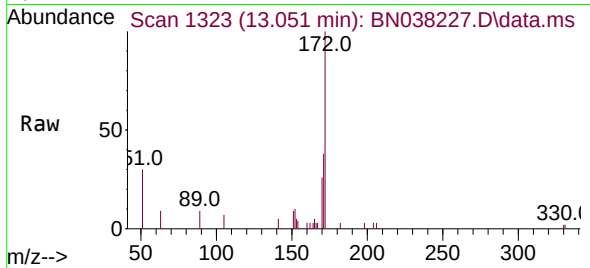




#15
2-Fluorobiphenyl
Concen: 0.052 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

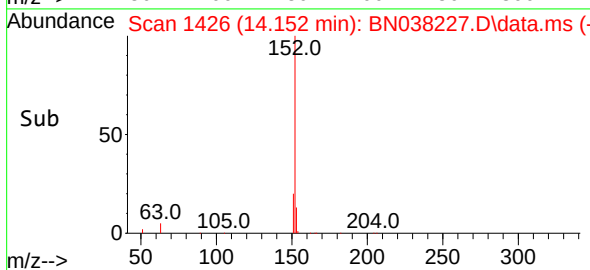
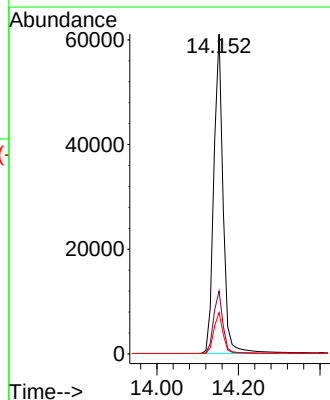
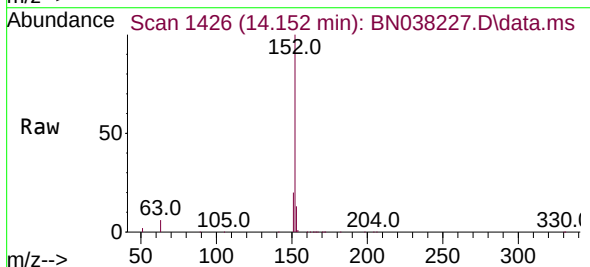
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

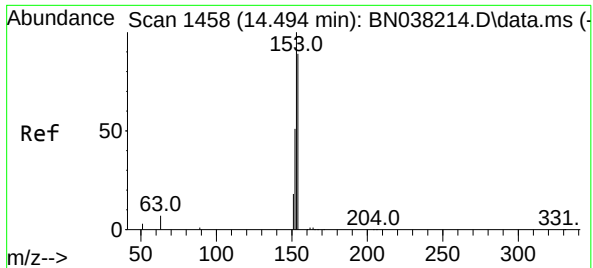
Tgt Ion:	172	Resp:	3384
Ion Ratio	Lower	Upper	
172	100		
171	37.6	28.1	42.1
170	26.3	19.1	28.7



#16
Acenaphthylene
Concen: 1.281 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.011 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:	152	Resp:	96592
Ion Ratio	Lower	Upper	
152	100		
151	19.8	15.6	23.4
153	13.0	10.6	15.8

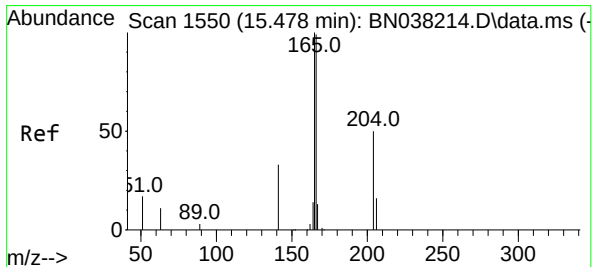
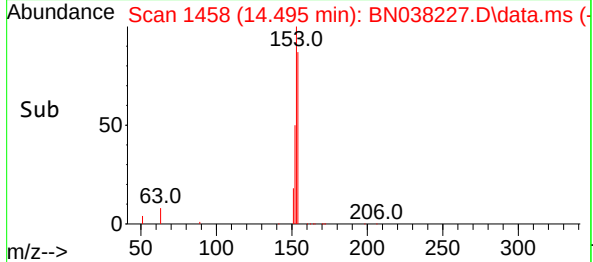
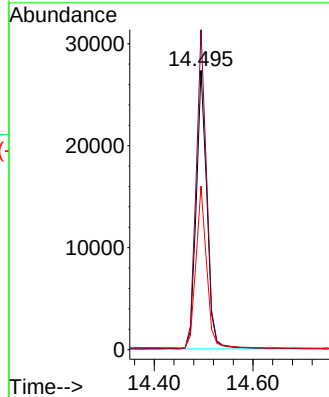
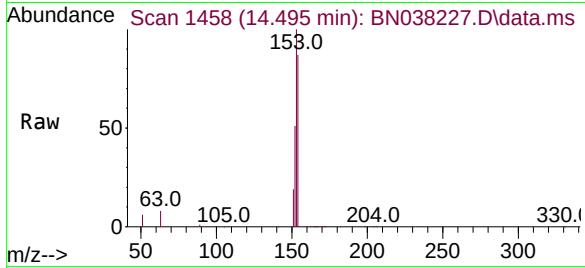




#17
Acenaphthene
Concen: 0.780 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

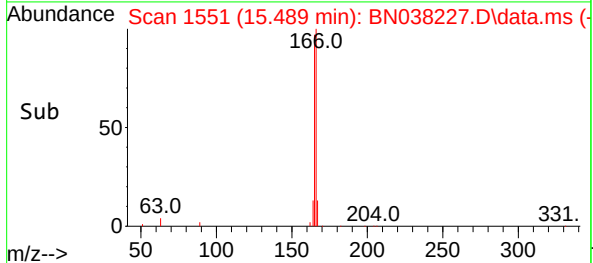
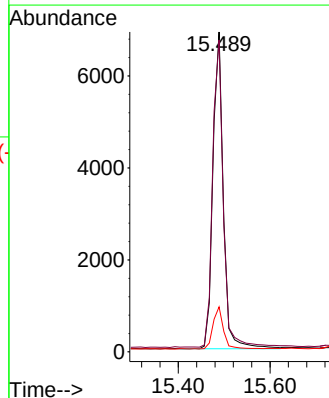
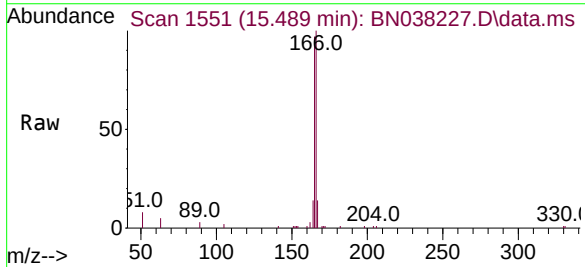
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

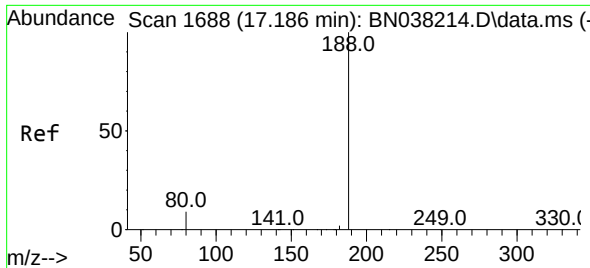
Tgt Ion:154 Resp: 41002
Ion Ratio Lower Upper
154 100
153 114.2 91.1 136.7
152 57.9 48.2 72.2



#18
Fluorene
Concen: 0.171 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:166 Resp: 11649
Ion Ratio Lower Upper
166 100
165 100.1 78.7 118.1
167 13.3 10.9 16.3

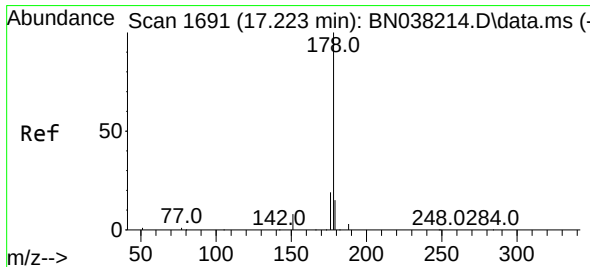
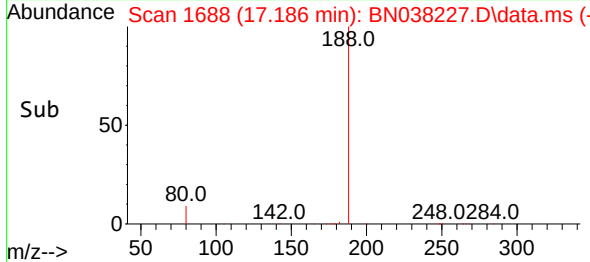
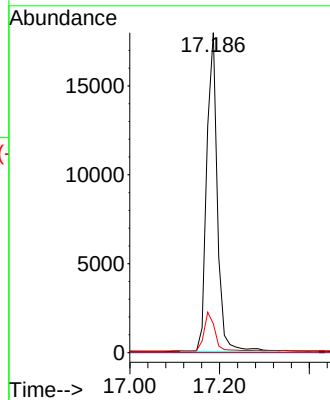
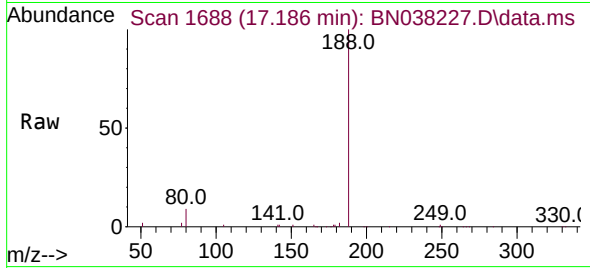




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

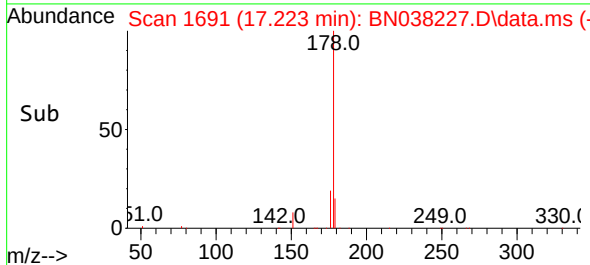
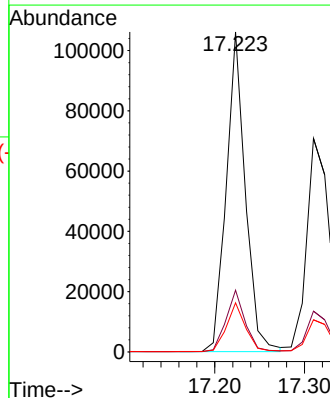
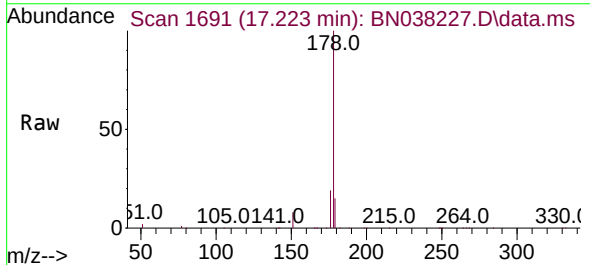
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

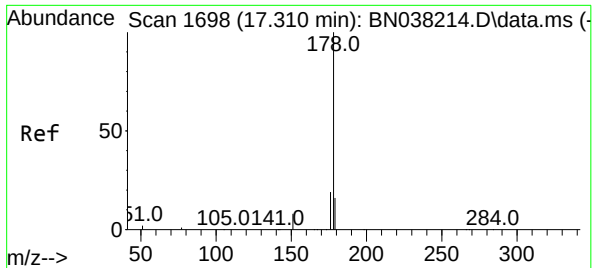
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.0	7.7	11.5



#25
Phenanthrene
Concen: 1.683 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.3	12.0	18.0

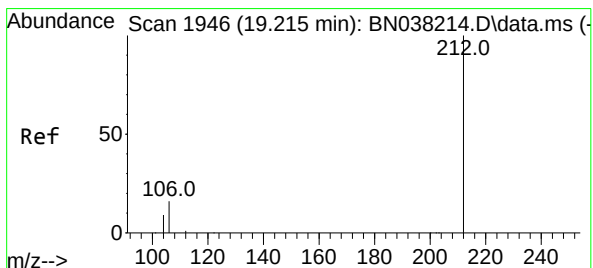
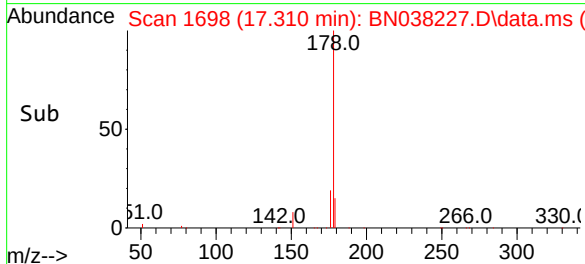
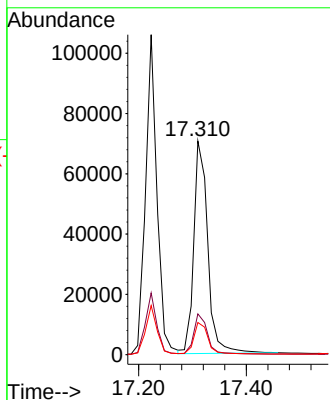
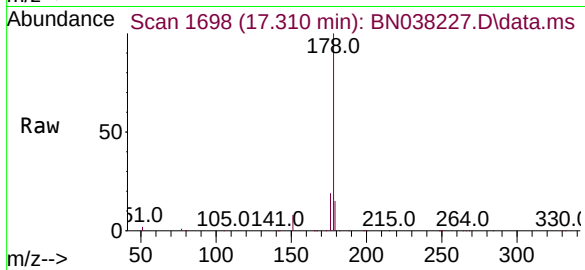




#26
Anthracene
Concen: 1.594 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

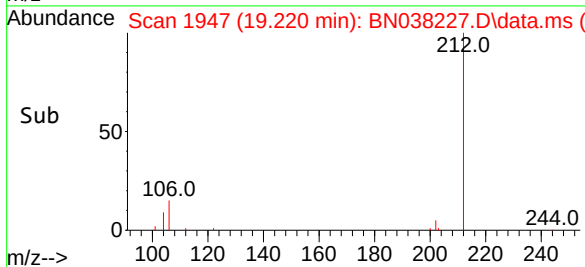
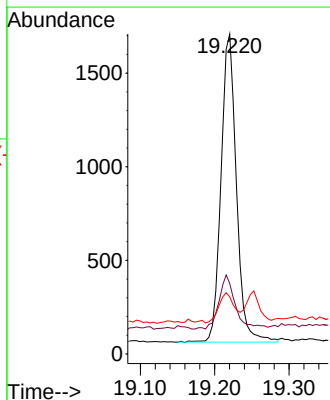
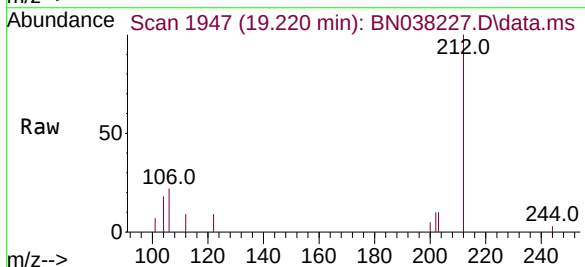
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

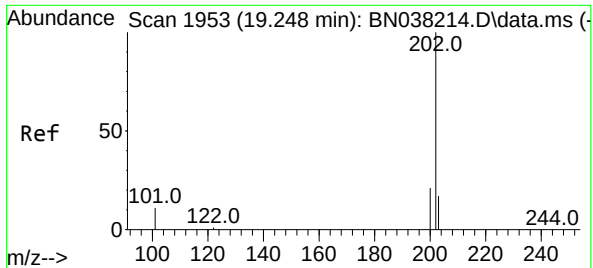
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.1	12.3	18.5



#27
Fluoranthene-d10
Concen: 0.037 ng
RT: 19.220 min Scan# 1947
Delta R.T. 0.005 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

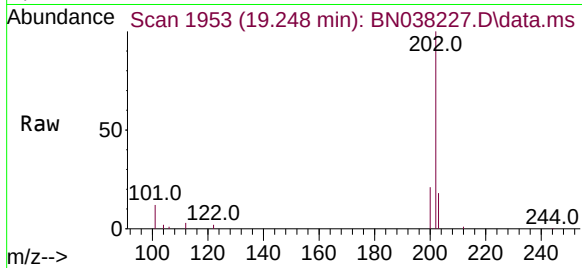
Tgt Ion	Ratio	Lower	Upper
212	100		
106	18.6	12.7	19.1
104	9.8	7.3	10.9



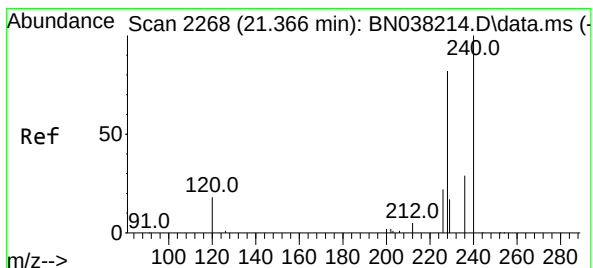
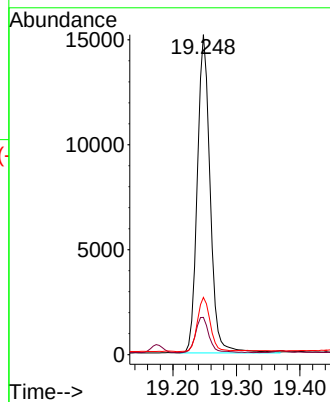
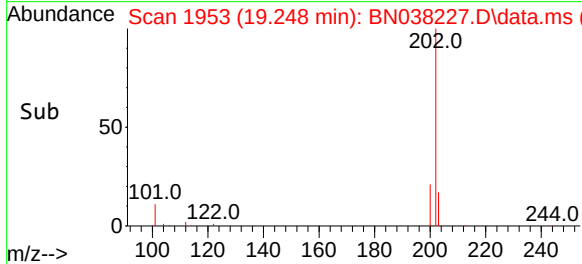


#28
Fluoranthene
Concen: 0.238 ng
RT: 19.248 min Scan# 1953
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

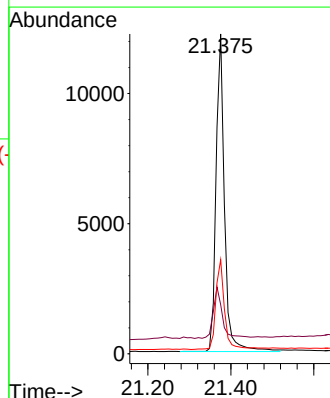
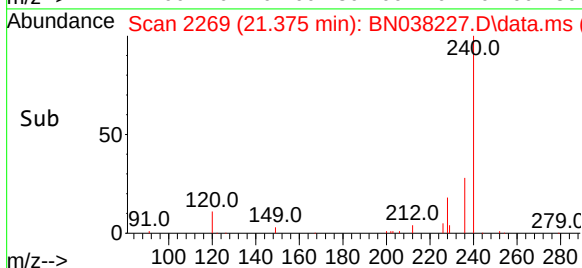
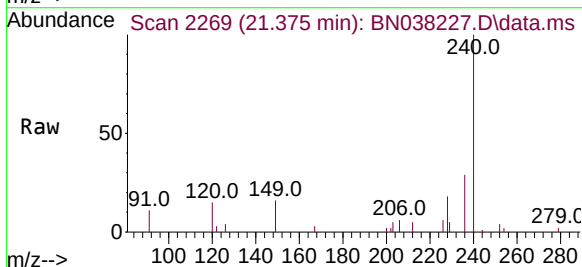


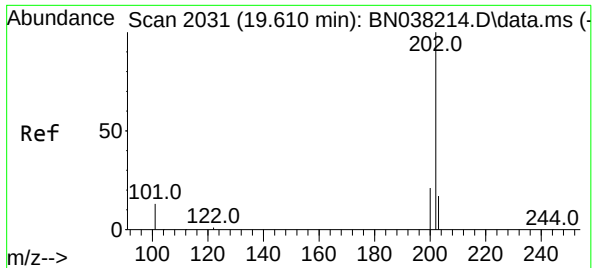
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.8	14.6
203	17.1	13.6	20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2269
Delta R.T. 0.009 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.4	18.1	27.1
236	29.4	24.2	36.4

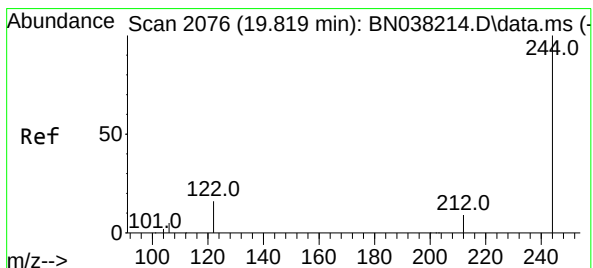
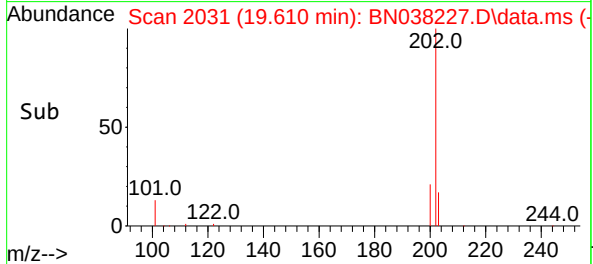
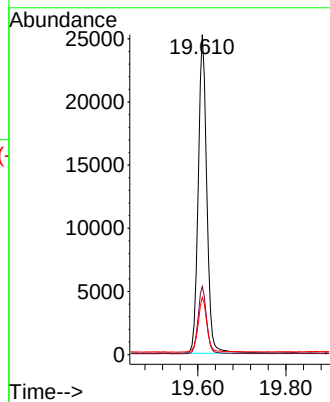
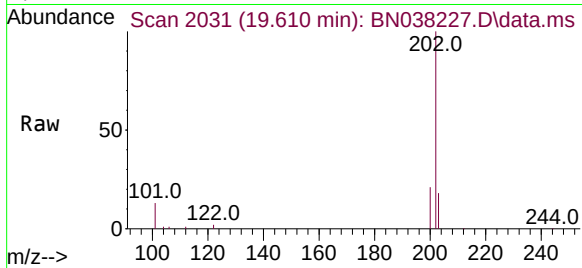




#30
Pyrene
Concen: 0.392 ng
RT: 19.610 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

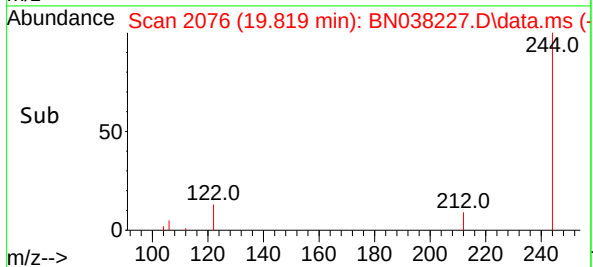
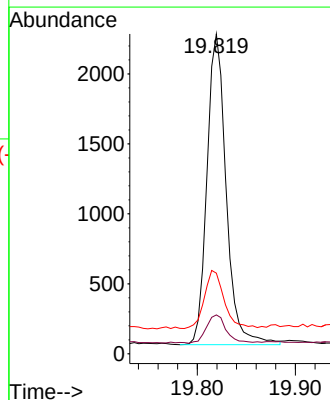
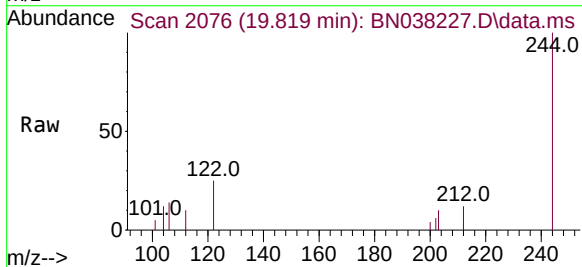
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

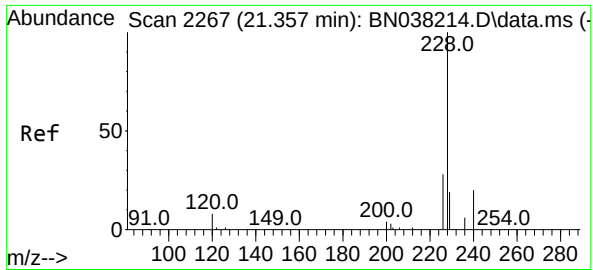
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.6	14.4	21.6



#31
Terphenyl-d14
Concen: 0.075 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.2	7.7	11.5#
122	25.2	13.6	20.4#

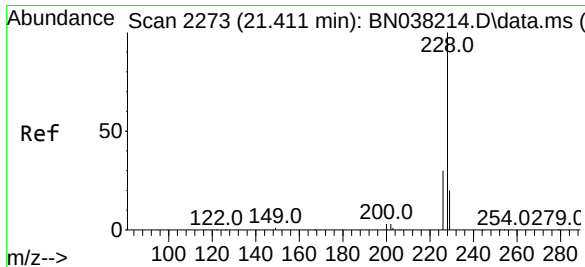
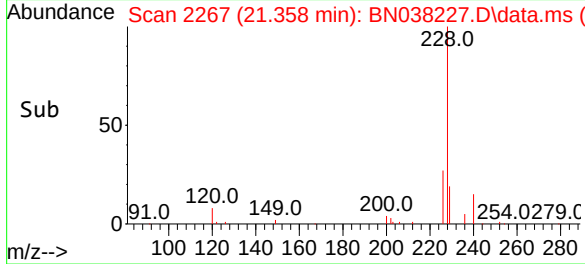
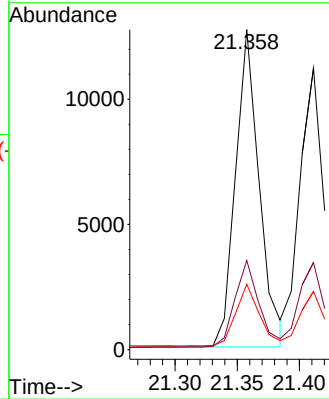
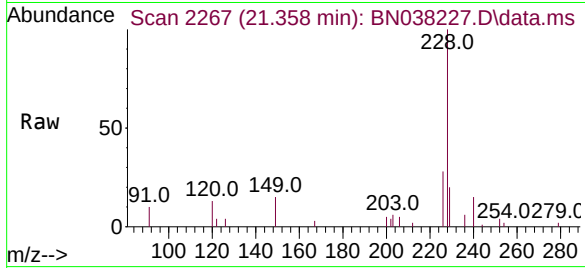




#32
Benzo(a)anthracene
Concen: 0.286 ng
RT: 21.358 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

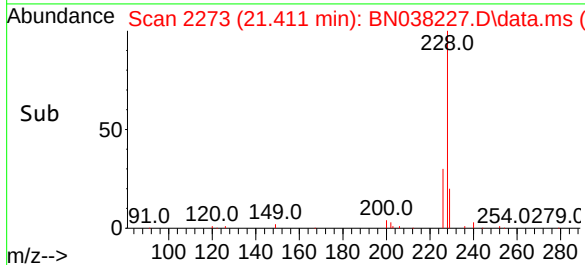
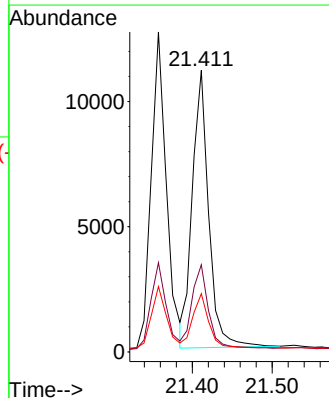
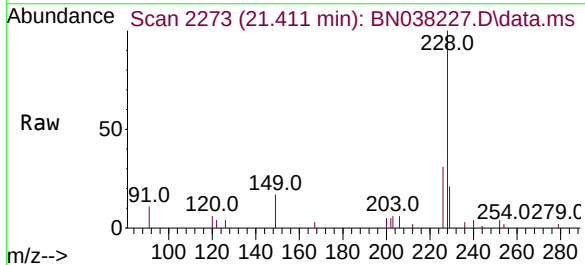
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

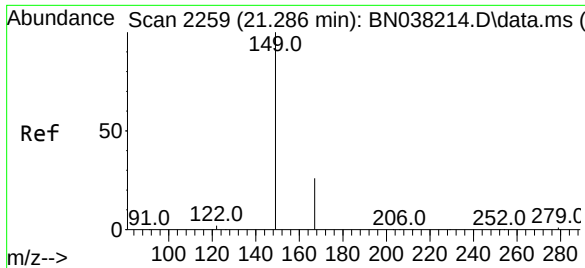
Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.4	15.8	23.8



#33
Chrysene
Concen: 0.226 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.8	35.8
229	20.6	16.1	24.1

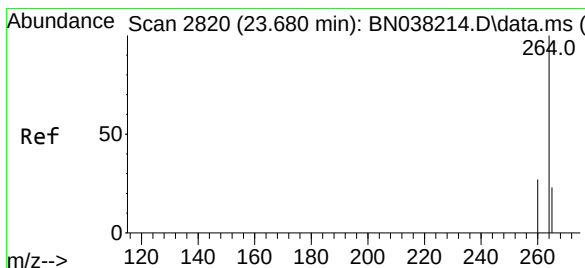
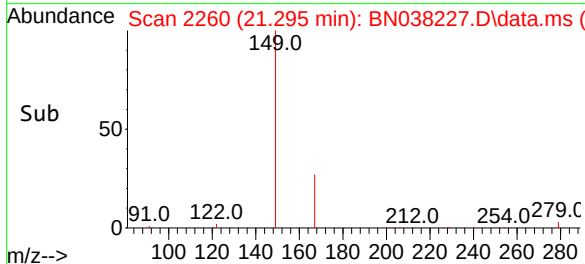
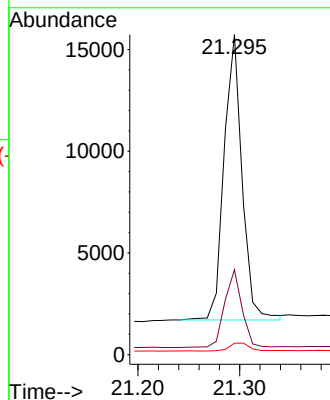
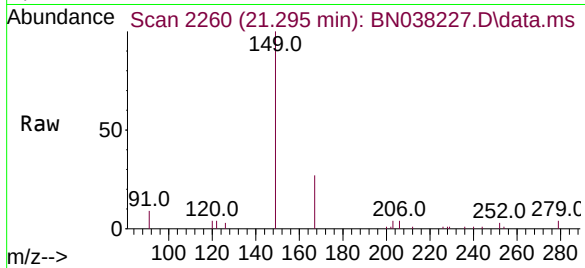




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.538 ng
RT: 21.295 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

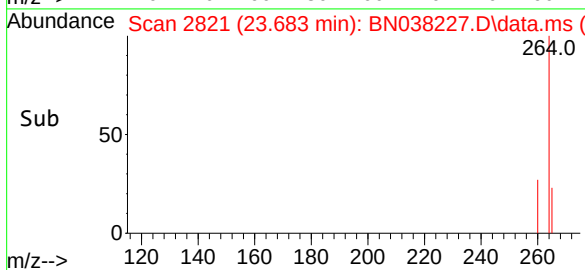
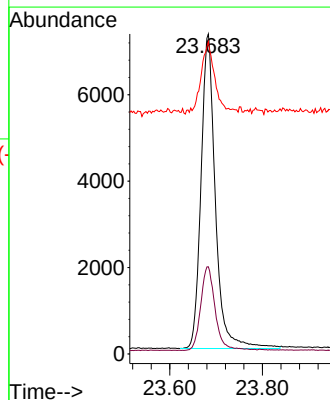
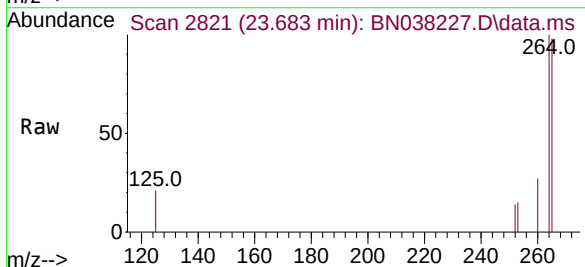
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

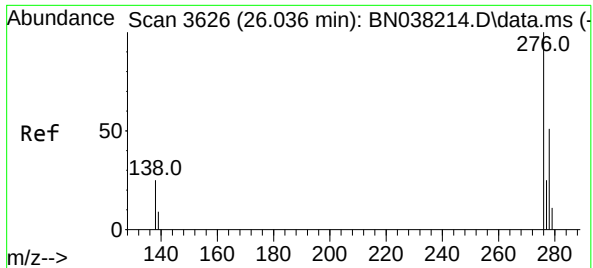
Tgt Ion:149 Resp: 17331
Ion Ratio Lower Upper
149 100
167 26.4 20.7 31.1
279 3.4 2.5 3.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 2821
Delta R.T. 0.003 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

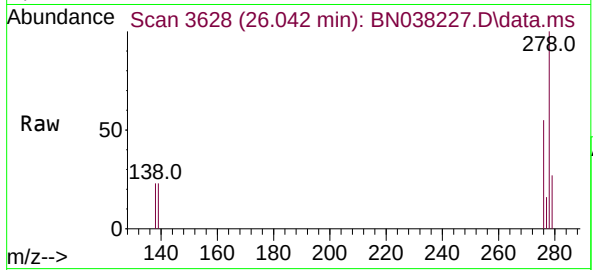
Tgt Ion:264 Resp: 15679
Ion Ratio Lower Upper
264 100
260 27.2 21.7 32.5
265 97.6 98.0 147.0#



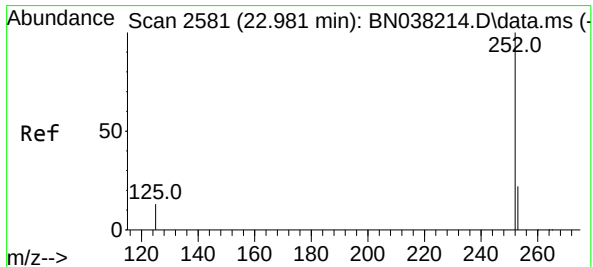
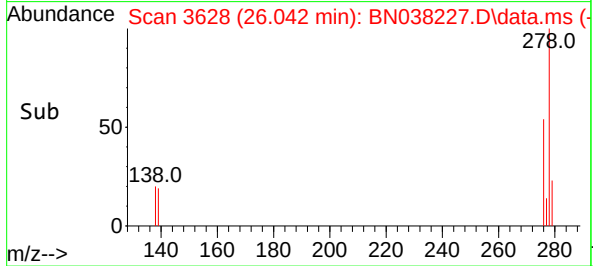
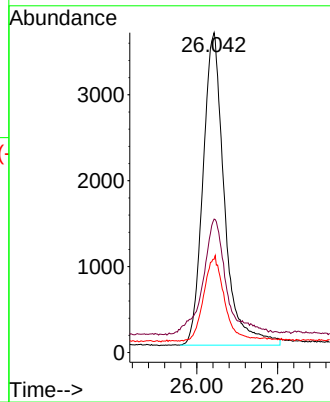


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.185 ng
RT: 26.042 min Scan# 3626
Delta R.T. 0.006 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILD

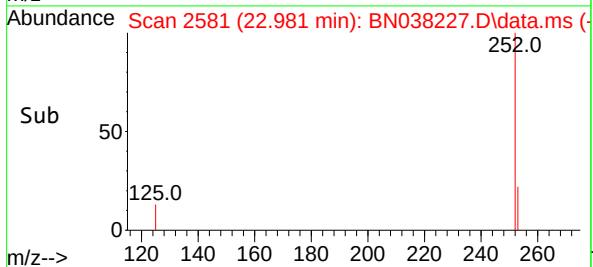
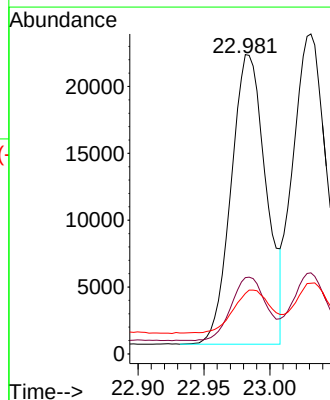
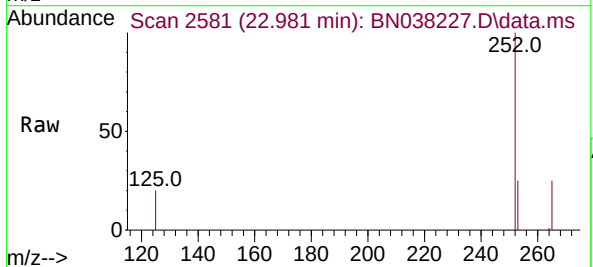


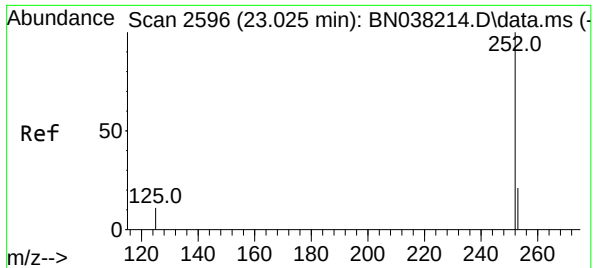
Tgt Ion:276 Resp: 13412
Ion Ratio Lower Upper
276 100
138 39.3 21.4 32.2#
277 26.0 19.1 28.7



#37
Benzo(b)fluoranthene
Concen: 0.621 ng
RT: 22.981 min Scan# 2581
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:252 Resp: 39949
Ion Ratio Lower Upper
252 100
253 25.5 22.2 33.4
125 20.2 18.0 27.0





#38

Benzo(k)fluoranthene

Concen: 0.648 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038227.D

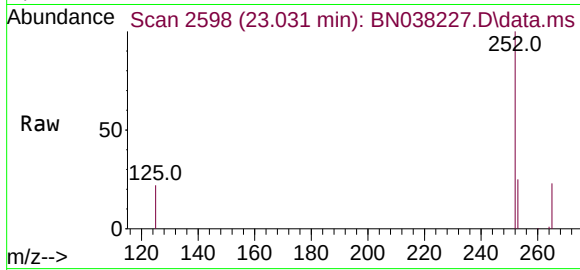
Acq: 01 Dec 2025 15:49

Instrument :

BNA_N

ClientSampleId :

HW1025-PT-PAH-SOILD



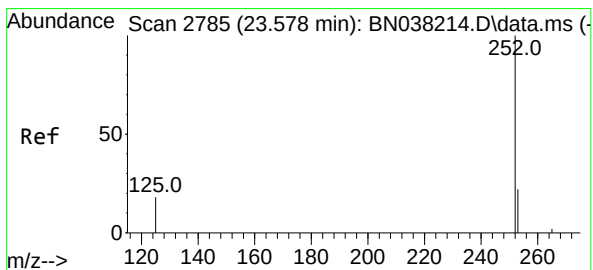
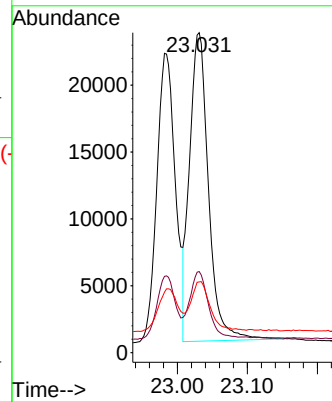
Tgt Ion:252 Resp: 43337

Ion Ratio Lower Upper

252 100

253 25.3 22.4 33.6

125 22.1 17.5 26.3



#39

Benzo(a)pyrene

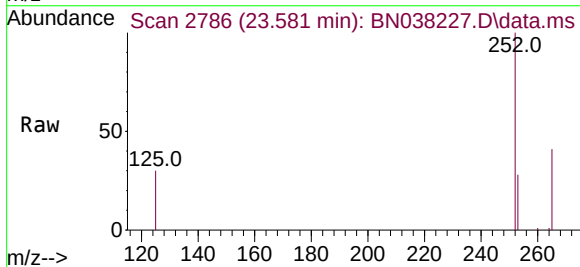
Concen: 0.538 ng

RT: 23.581 min Scan# 2786

Delta R.T. 0.003 min

Lab File: BN038227.D

Acq: 01 Dec 2025 15:49



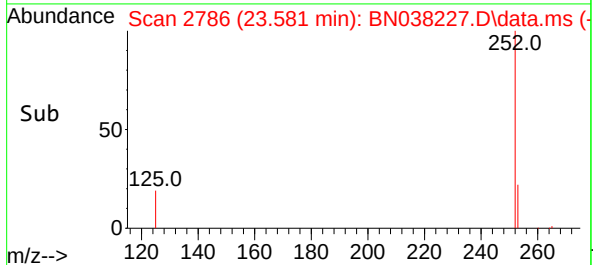
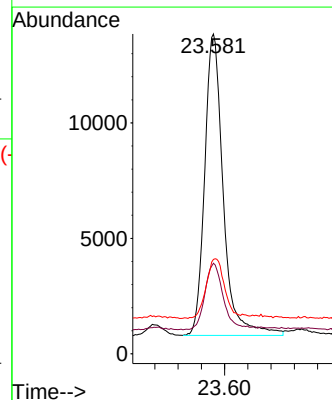
Tgt Ion:252 Resp: 29015

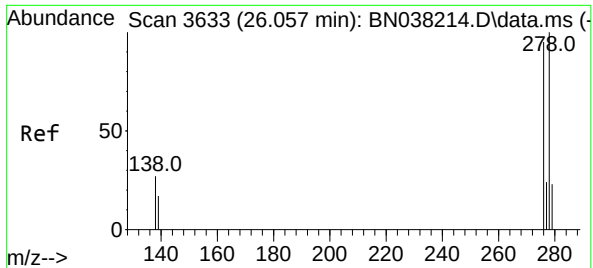
Ion Ratio Lower Upper

252 100

253 28.3 25.3 37.9

125 29.5 25.2 37.8

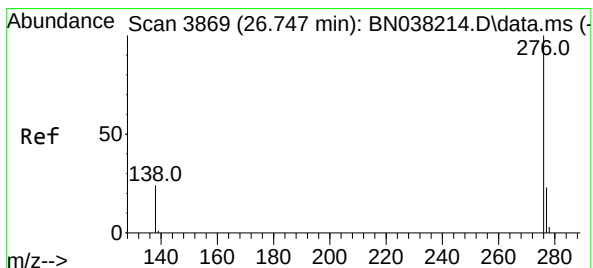
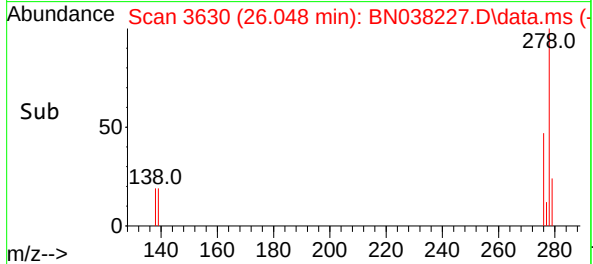
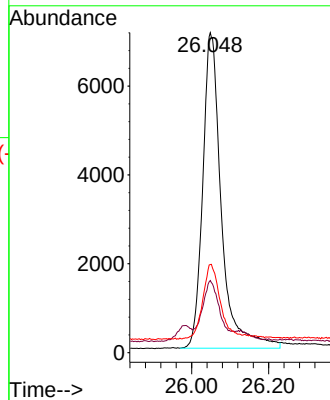
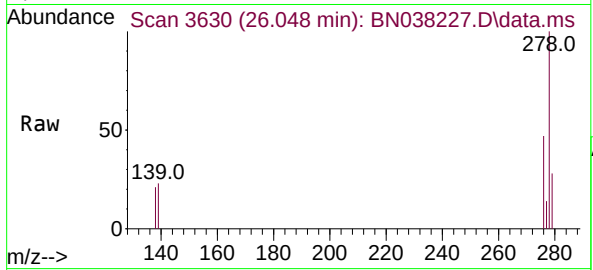




#40
Dibenzo(a,h)anthracene
Concen: 0.434 ng
RT: 26.048 min Scan# 3630
Delta R.T. -0.009 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

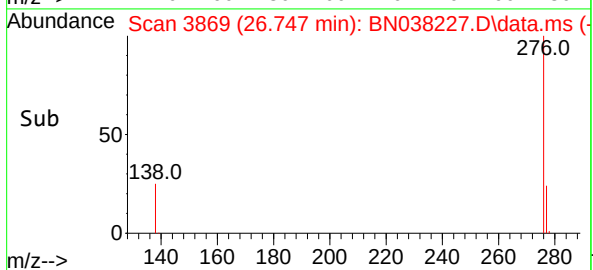
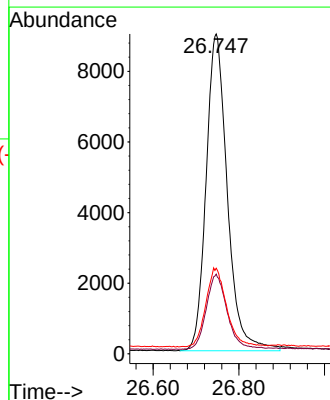
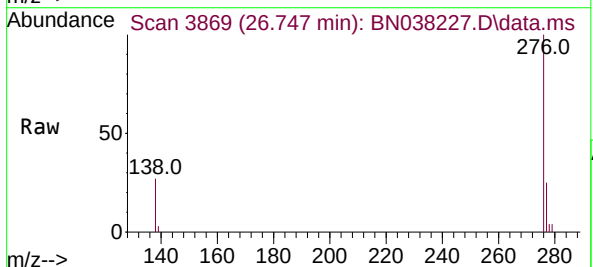
Instrument :
BNA_N
ClientSampleId :
HW1025-PT-PAH-SOILDL

Tgt Ion:278 Resp: 23832
Ion Ratio Lower Upper
278 100
139 22.5 17.6 26.4
279 27.5 24.2 36.4



#41
Benzo(g,h,i)perylene
Concen: 0.470 ng
RT: 26.747 min Scan# 3869
Delta R.T. 0.000 min
Lab File: BN038227.D
Acq: 01 Dec 2025 15:49

Tgt Ion:276 Resp: 30860
Ion Ratio Lower Upper
276 100
277 24.9 20.2 30.2
138 26.8 20.8 31.2





CALIBRATION SUMMARY



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AllianceContract: ALLI03Lab Code: ACESDG No.: Q3483Instrument ID: BNA_NCalibration Date(s): 11/26/2025 11/27/2025Calibration Time(s): 20:35 00:13

LAB FILE ID:		RRF0.1 = BN038212.D		RRF0.2 = BN038213.D		RRF0.4 = BN038214.D		
		RRF0.8 = BN038215.D		RRF1.6 = BN038216.D		RRF3.2 = BN038217.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.535	0.548	0.588	0.558	0.584	0.584	0.568	3.7
Fluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.868	3.8
2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.935	5.1
Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.168	4.1
Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.320	7.1
Naphthalene	1.152	1.102	1.153	1.075	1.118	1.093	1.111	2.9
2-Methylnaphthalene	0.696	0.697	0.760	0.718	0.754	0.750	0.731	3.7
2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.545	3.8
Acenaphthylene	1.756	1.685	1.801	1.702	1.830	1.866	1.789	4.3
Acenaphthene	1.244	1.208	1.292	1.198	1.263	1.262	1.247	2.7
Fluorene	1.544	1.442	1.650	1.571	1.680	1.708	1.614	6.1
2,4,6-Tribromophenol	0.106	0.100	0.123	0.122	0.139	0.165	0.126	18.8
Phenanthrene	1.247	1.207	1.311	1.202	1.270	1.293	1.256	3.2
Anthracene	0.996	0.998	1.068	1.016	1.100	1.156	1.071	6.7
Fluoranthene	1.174	1.147	1.227	1.146	1.230	1.281	1.210	4.6
Pyrene	2.066	1.804	2.087	1.972	1.973	2.077	1.998	4.9
Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.924	4.6
Benzo (a) anthracene	1.321	1.271	1.368	1.320	1.373	1.421	1.355	3.9
Chrysene	1.742	1.639	1.661	1.517	1.597	1.541	1.599	5.5
Benzo (b) fluoranthene	1.563	1.555	1.703	1.586	1.675	1.721	1.642	4.3
Benzo (k) fluoranthene	1.627	1.639	1.758	1.658	1.749	1.776	1.707	3.7
Benzo (a) pyrene	1.414	1.284	1.386	1.316	1.403	1.414	1.376	3.9
Indeno (1,2,3-cd) pyrene	1.747	1.715	1.875	1.736	1.962	1.963	1.851	6.2
Dibenzo (a,h) anthracene	1.264	1.234	1.379	1.349	1.512	1.541	1.401	9.1
Benzo (g,h,i) perylene	1.722	1.586	1.721	1.617	1.720	1.687	1.674	3.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112725.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Nov 28 21:04:10 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN038212.D 0.2 =BN038213.D 0.4 =BN038214.D 0.8 =BN038215.D 1.6 =BN038216.D 3.2 =BN038217.D 5 =BN038218.D

Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I 1,4-Dichlorobenzen...	-----ISTD-----								
2) 1,4-Dioxane	0.484	0.448	0.396	0.423	0.399	0.378	0.421		9.29
3) n-Nitrosodimet...	0.488	0.543	0.513	0.536	0.528	0.510	0.520		3.87
4) S 2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.892	0.935	5.14
5) S Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.191	1.168	4.05
6) bis(2-Chloroet...	1.066	1.118	1.188	1.086	1.152	1.130	1.088	1.118	3.79
7) I Naphthalene-d8	-----ISTD-----								
8) S Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.311	0.320	7.07
9) Naphthalene	1.152	1.102	1.153	1.075	1.118	1.093	1.082	1.111	2.87
10) Hexachlorobuta...	0.203	0.192	0.200	0.182	0.188	0.180	0.177	0.189	5.29
11) SURR2-Methylnaphth...	0.535	0.548	0.588	0.558	0.584	0.584	0.579	0.568	3.70
12) 2-Methylnaphth...	0.696	0.697	0.760	0.718	0.754	0.750	0.741	0.731	3.68
13) I Acenaphthene-d10	-----ISTD-----								
14) S 2,4,6-Tribromo...	0.106	0.100	0.123	0.122	0.139	0.165		0.126	18.76
15) S 2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.459	1.545	3.85
16) Acenaphthylene	1.756	1.685	1.801	1.702	1.830	1.866	1.880	1.789	4.31
17) Acenaphthene	1.244	1.208	1.292	1.198	1.263	1.262	1.261	1.247	2.66
18) Fluorene	1.544	1.442	1.650	1.571	1.680	1.708	1.703	1.614	6.13
19) I Phenanthrene-d10	-----ISTD-----								
20) 4,6-Dinitro-2-...	0.021	0.026	0.031	0.044	0.059	0.071	0.042		46.82
21) 4-Bromophenyl-...	0.268	0.268	0.285	0.268	0.287	0.284	0.280	0.277	3.19
22) Hexachlorobenzene	0.377	0.366	0.358	0.320	0.337	0.319	0.307	0.341	7.87
23) Atrazine	0.165	0.157	0.175	0.164	0.181	0.198	0.200	0.177	9.46
24) Pentachlorophenol		0.090	0.084	0.080	0.096	0.117		0.093	15.54
25) Phenanthrene	1.247	1.207	1.311	1.202	1.270	1.293	1.259	1.256	3.24
26) Anthracene	0.996	0.998	1.068	1.016	1.100	1.156	1.166	1.071	6.73
27) SURRFluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.900	0.868	3.76
28) Fluoranthene	1.174	1.147	1.227	1.146	1.230	1.281	1.266	1.210	4.55
29) I Chrysene-d12	-----ISTD-----								
30) Pyrene	2.066	1.804	2.087	1.972	1.973	2.077	2.006	1.998	4.91
31) S Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.949	0.924	4.65
32) Benzo(a)anthra...	1.321	1.271	1.368	1.320	1.373	1.421	1.409	1.355	3.94
33) Chrysene	1.742	1.639	1.661	1.517	1.597	1.541	1.494	1.599	5.53
34) Bis(2-ethylhex...	0.780	0.801	0.700	0.682	0.740	0.746	0.742		6.12
35) I Perylene-d12	-----ISTD-----								

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

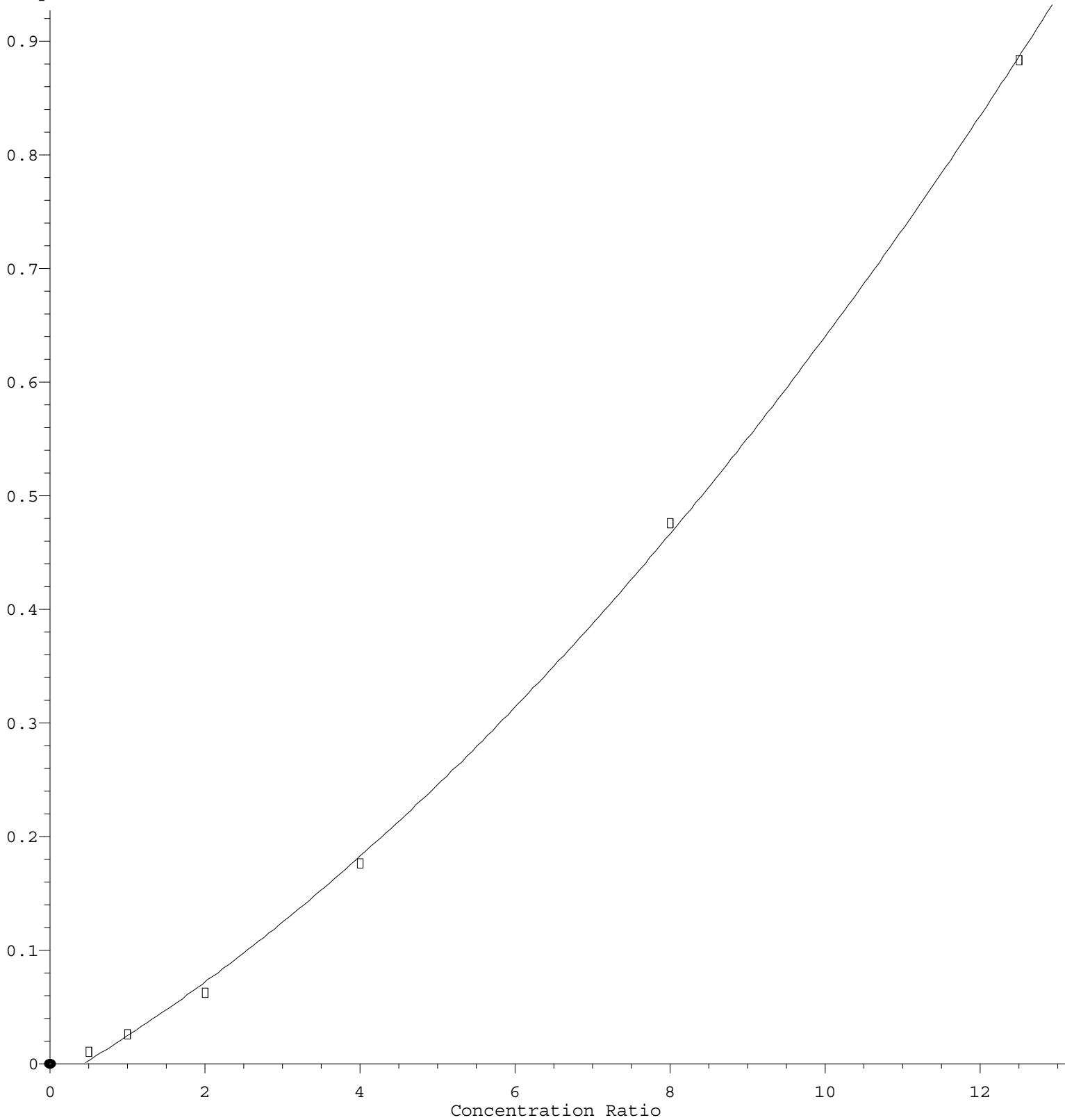
Method File : 8270-SIM-BN112725.M

36)	Indeno(1,2,3-c...	1.747	1.715	1.875	1.736	1.962	1.963	1.960	1.851	6.24
37)	Benzo(b)fluora...	1.563	1.555	1.703	1.586	1.675	1.721	1.690	1.642	4.32
38)	Benzo(k)fluora...	1.627	1.639	1.758	1.658	1.749	1.776	1.742	1.707	3.69
39) C	Benzo(a)pyrene	1.414	1.284	1.386	1.316	1.403	1.414	1.417	1.376	3.93
40)	Dibenzo(a,h)an...	1.264	1.234	1.379	1.349	1.512	1.541	1.531	1.401	9.14
41)	Benzo(g,h,i)pe...	1.722	1.586	1.721	1.617	1.720	1.687	1.670	1.674	3.25

(#) = Out of Range

4,6-Dinitro-2-methylphenol

Response Ratio



$R = 2.629e-003 A^2 + 3.944e-002 A - 1.746e-002$
 Coef of Det (r^2) = 0.999527 Curve Fit: Quadratic
 Method Name: Z:\svoasrv\HPCHEM1\BNA N\Methods\8270-SIM-BN112725.M
 Calibration Table Last Updated: Fri Nov 28 21:04:10 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038212.D
 Acq On : 26 Nov 2025 20:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Nov 28 20:54:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8004	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	24261	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	13487	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	22239	0.400	ng	0.00
29) Chrysene-d12	21.375	240	12844	0.400	ng	# 0.00
35) Perylene-d12	23.683	264	12898	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	2018	0.108	ng	0.00
5) Phenol-d6	6.937	99	2361	0.101	ng	0.00
8) Nitrobenzene-d5	8.929	82	2243	0.116	ng	0.01
11) 2-Methylnaphthalene-d10	12.172	152	3243	0.094	ng	0.00
14) 2,4,6-Tribromophenol	15.945	330	357	0.084	ng	0.01
15) 2-Fluorobiphenyl	13.062	172	5461	0.105	ng	0.01
27) Fluoranthene-d10	19.220	212	4740	0.098	ng	0.00
31) Terphenyl-d14	19.819	244	2901	0.098	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.190	93	2134	0.095	ng	95
9) Naphthalene	10.616	128	6988	0.104	ng	96
10) Hexachlorobutadiene	10.915	225	1231	0.107	ng	# 97
12) 2-Methylnaphthalene	12.248	142	4222	0.095	ng	97
16) Acenaphthylene	14.152	152	5921	0.098	ng	100
17) Acenaphthene	14.495	154	4196	0.100	ng	97
18) Fluorene	15.489	166	5207	0.096	ng	100
21) 4-Bromophenyl-phenylether	16.379	248	1492	0.097	ng	# 77
22) Hexachlorobenzene	16.491	284	2097	0.111	ng	98
23) Atrazine	16.652	200	918	0.093	ng	# 89
25) Phenanthrene	17.223	178	6934	0.099	ng	99
26) Anthracene	17.322	178	5536	0.093	ng	100
28) Fluoranthene	19.253	202	6527	0.097	ng	99
30) Pyrene	19.610	202	6634	0.103	ng	100
32) Benzo(a)anthracene	21.358	228	4241	0.097	ng	97
33) Chrysene	21.411	228	5593	0.109	ng	98
36) Indeno(1,2,3-cd)pyrene	26.045	276	5633	0.094	ng	# 92
37) Benzo(b)fluoranthene	22.987	252	5040	0.095	ng	# 56
38) Benzo(k)fluoranthene	23.031	252	5245	0.095	ng	# 63
39) Benzo(a)pyrene	23.587	252	4558	0.103	ng	# 40
40) Dibenzo(a,h)anthracene	26.069	278	4077	0.090	ng	# 68
41) Benzo(g,h,i)perylene	26.753	276	5553m	0.103	ng	

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

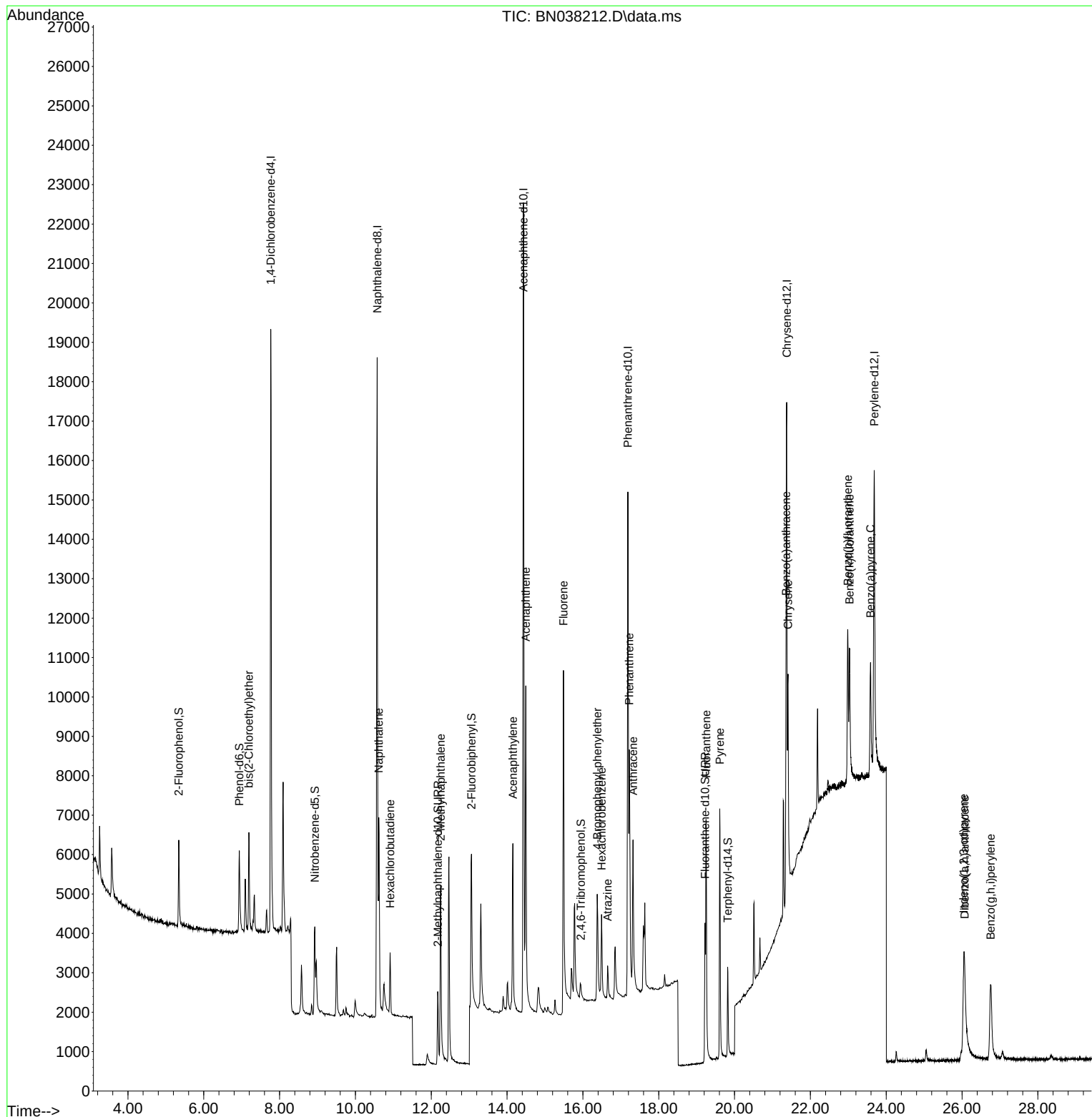
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Acq On : 26 Nov 2025 20:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 12 Sample Multiplier: 1

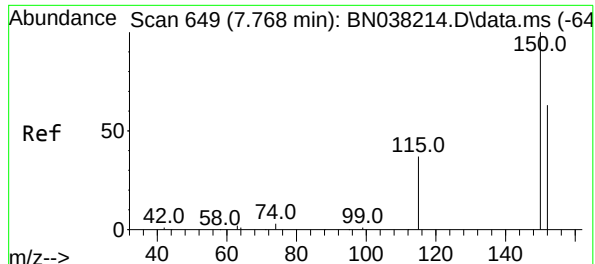
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

Quant Time: Nov 28 20:54:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

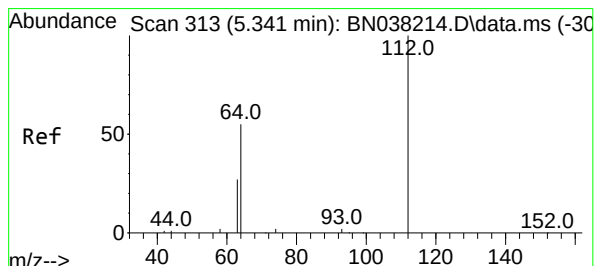
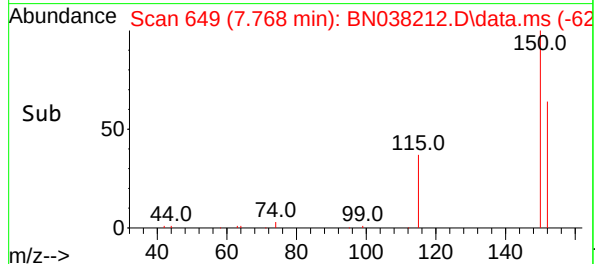
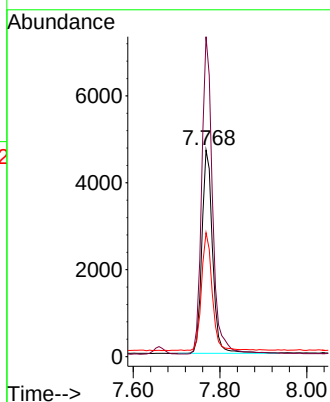
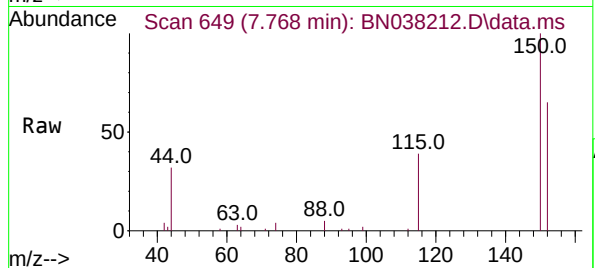
SSTDIC0.1

Tgt Ion:152 Resp: 8004
Ion Ratio Lower Upper
152 100
150 155.0 125.3 187.9
115 60.0 49.0 73.4

Manual Integrations

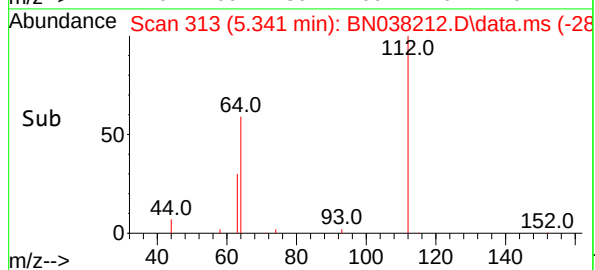
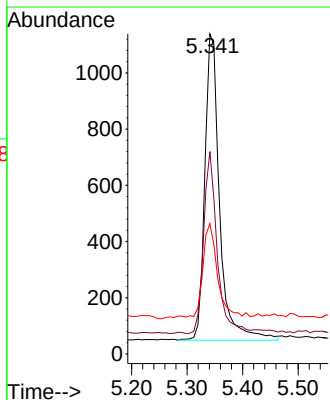
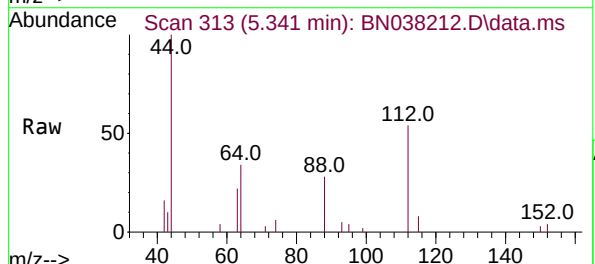
APPROVED

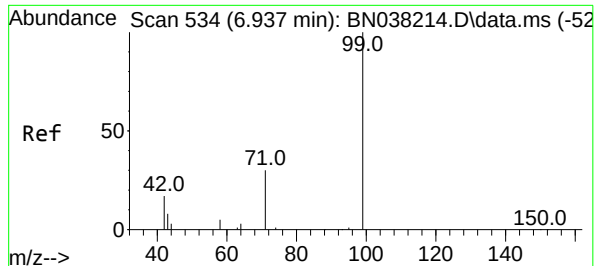
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:112 Resp: 2018
Ion Ratio Lower Upper
112 100
64 54.6 45.0 67.4
63 29.6 23.2 34.8





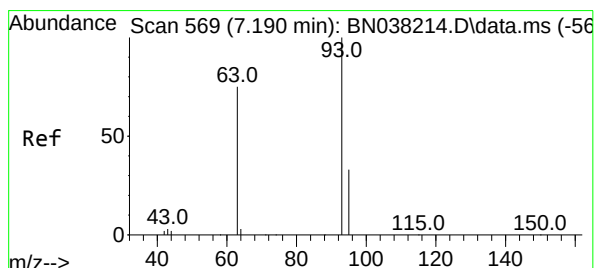
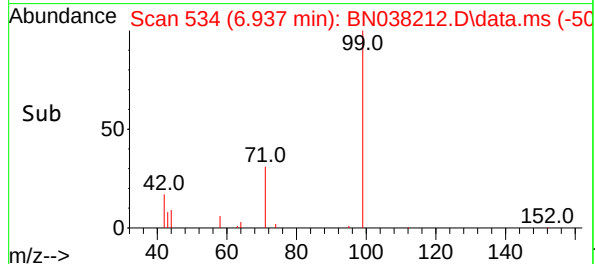
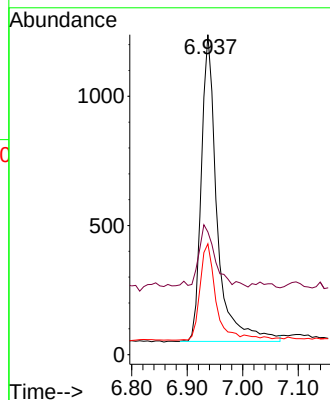
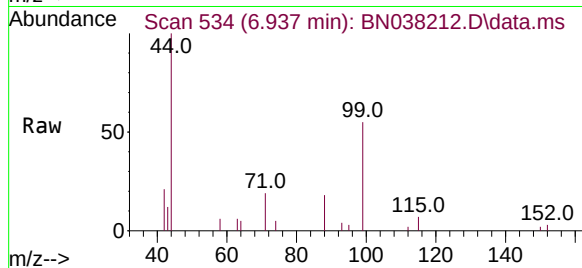
#5
Phenol-d6
Concen: 0.101 ng
RT: 6.937 min Scan# 534
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 2361
Ion Ratio Lower Upper
99 100
42 23.7 17.0 25.6
71 32.5 25.4 38.2

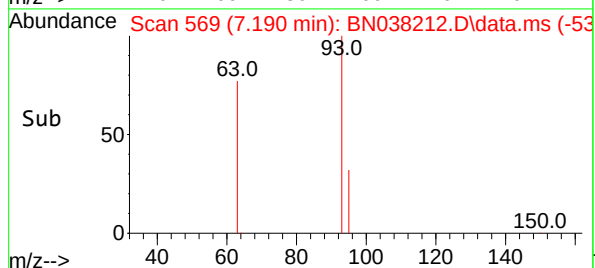
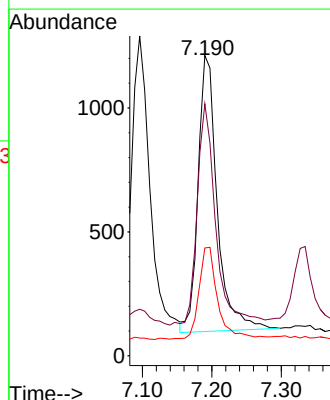
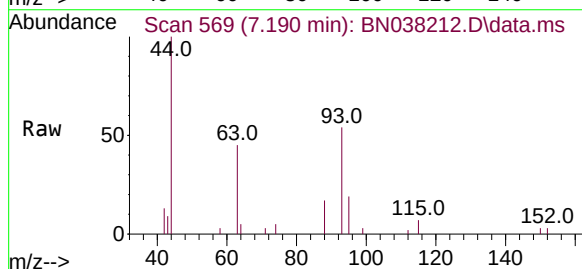
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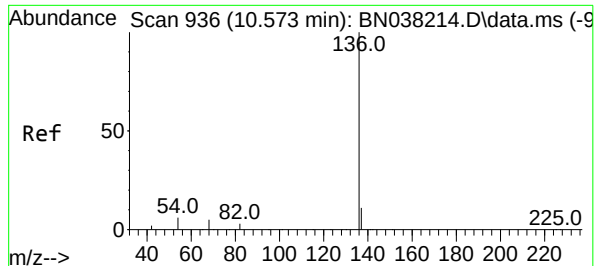
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion: 93 Resp: 2134
Ion Ratio Lower Upper
93 100
63 78.2 58.1 87.1
95 32.9 25.1 37.7





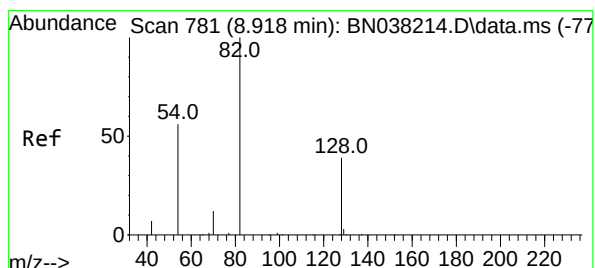
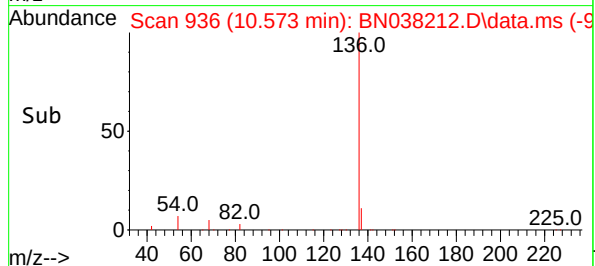
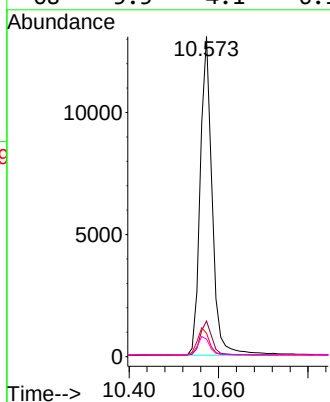
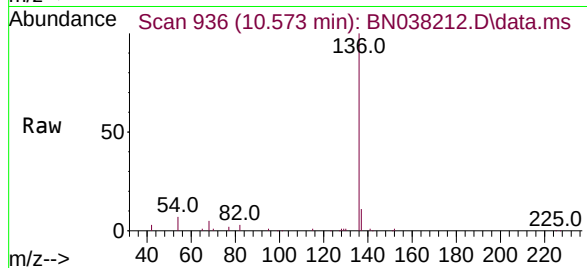
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:	136	Resp:	2426
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.3	5.4	8.0
68	5.5	4.1	6.1

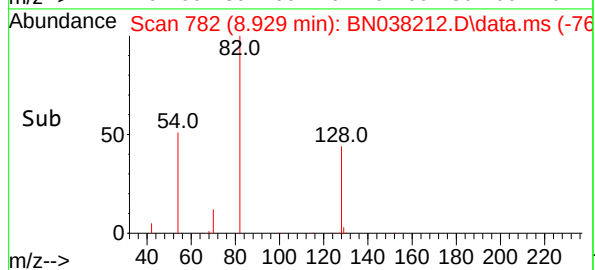
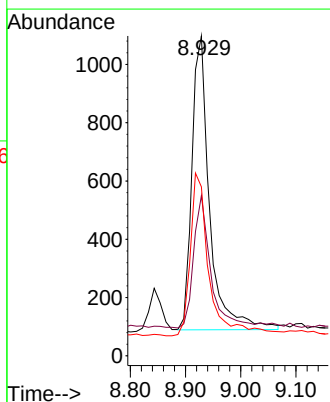
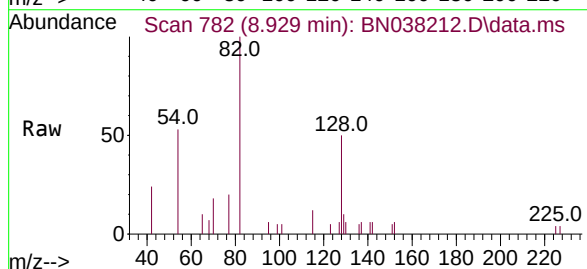
Manual Integrations
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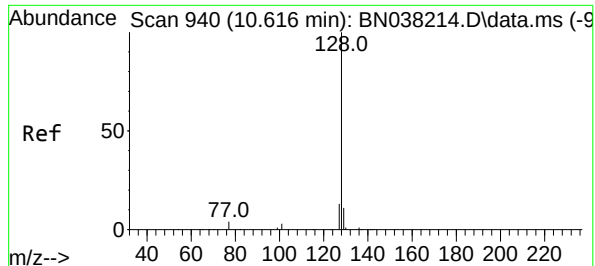
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#8
Nitrobenzene-d5
Concen: 0.116 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:	82	Resp:	2243
Ion	Ratio	Lower	Upper
82	100		
128	50.1	32.6	48.8
54	52.8	45.4	68.0





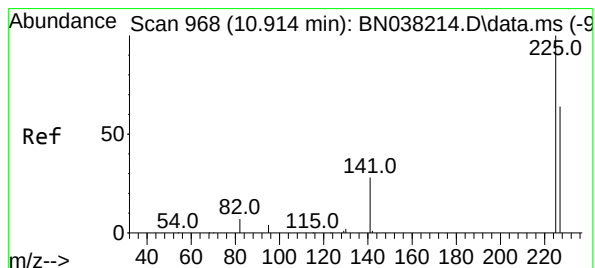
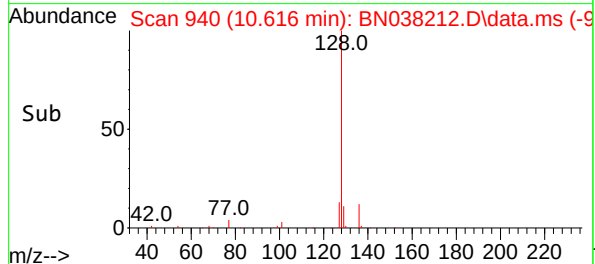
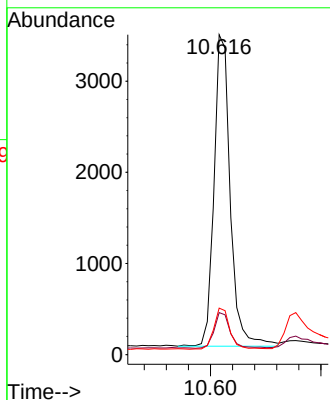
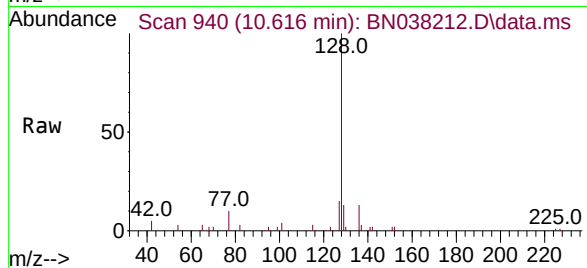
#9
Naphthalene
Concen: 0.104 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 6988
Ion Ratio Lower Upper
128 100
129 13.1 9.1 13.7
127 14.6 10.6 16.0

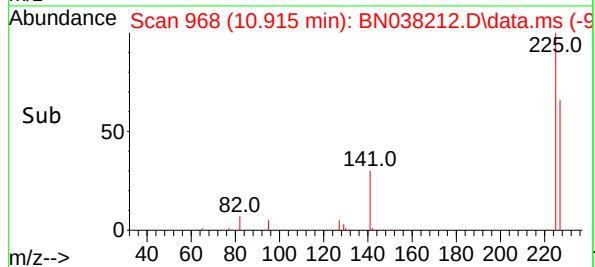
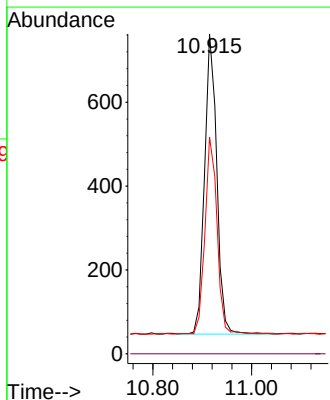
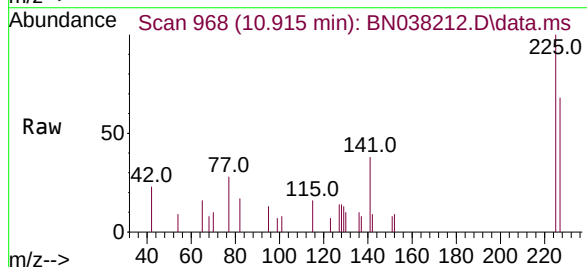
Manual Integrations
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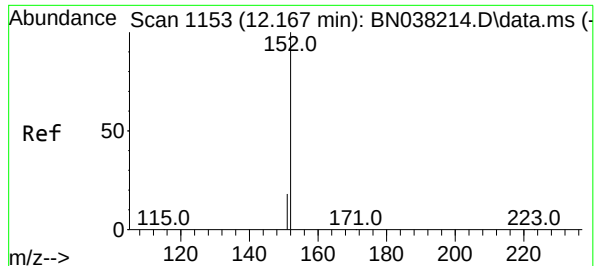
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

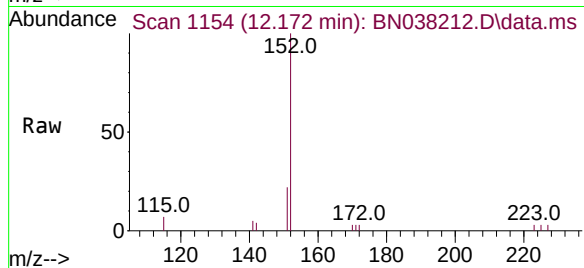
Tgt Ion:225 Resp: 1231
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 50.5 75.7





#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

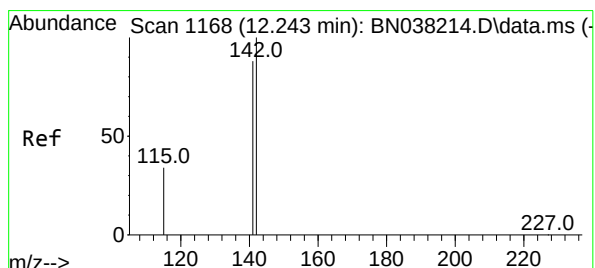
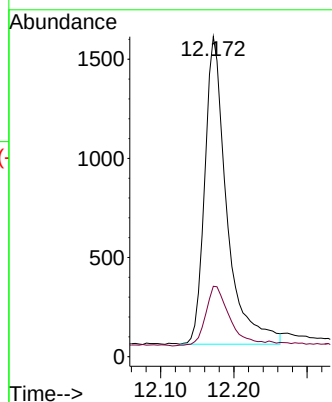
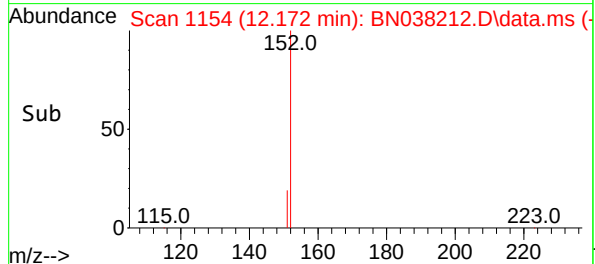
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 3243
Ion Ratio Lower Upper
152 100
151 21.4 16.7 25.1

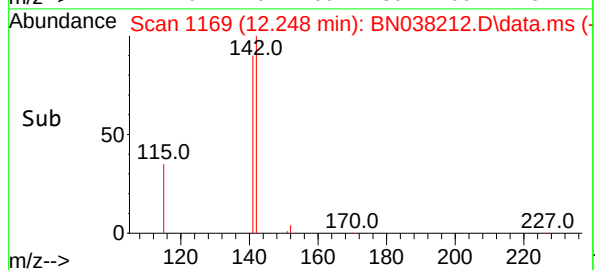
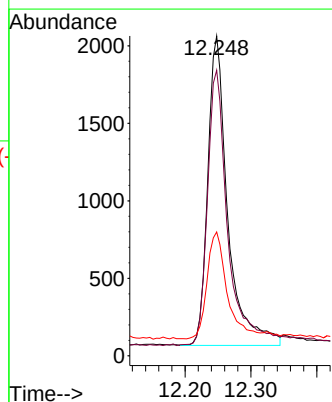
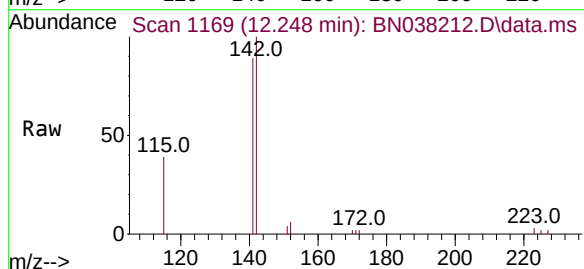
Manual Integrations
APPROVED

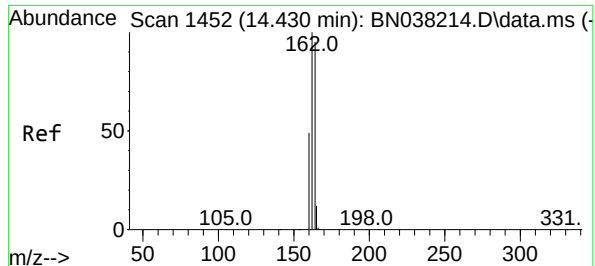
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

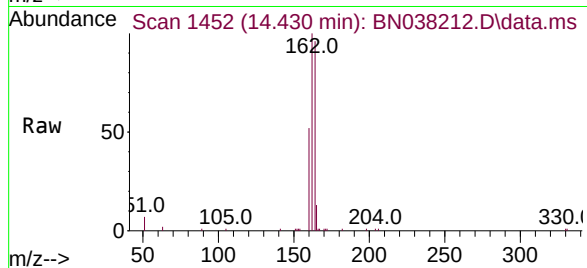
Tgt Ion:142 Resp: 4222
Ion Ratio Lower Upper
142 100
141 89.3 70.9 106.3
115 38.7 27.7 41.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

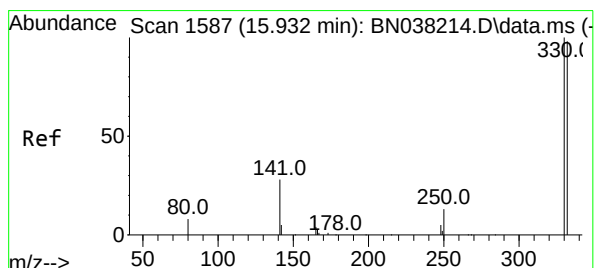
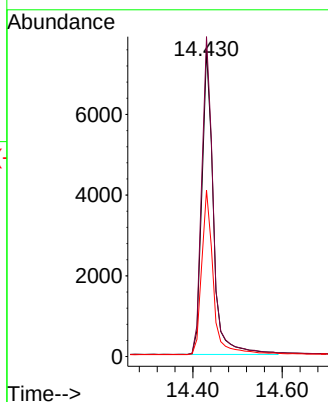
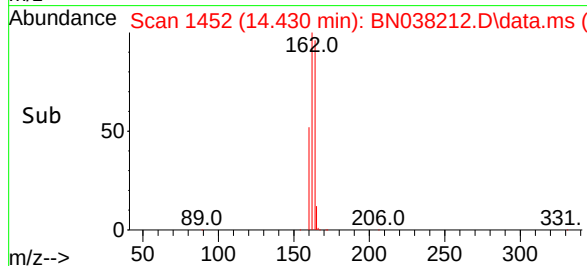
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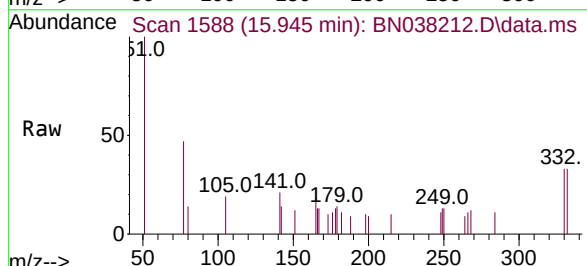
Tgt Ion:164 Resp: 1348
Ion Ratio Lower Upper
164 100
162 104.5 83.8 125.8
160 54.4 41.6 62.4

Manual Integrations
APPROVED

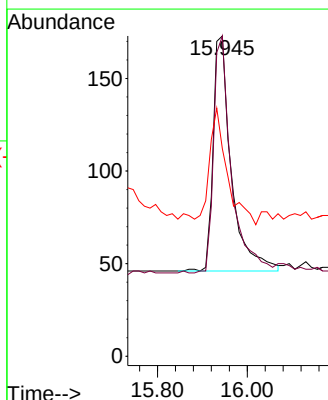
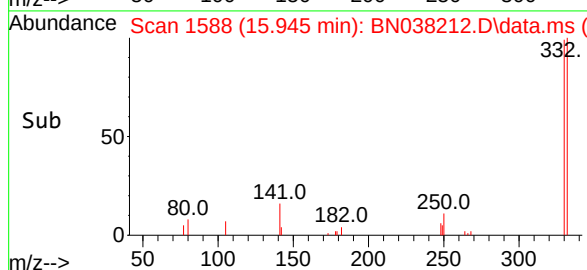
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

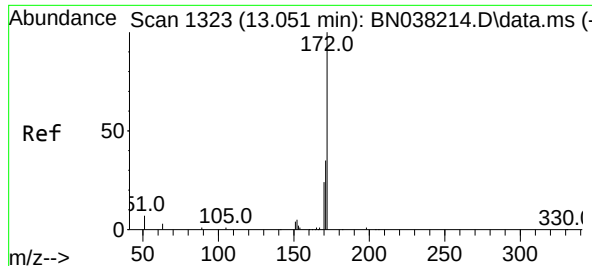


#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.013 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35



Tgt Ion:330 Resp: 357
Ion Ratio Lower Upper
330 100
332 98.6 77.8 116.6
141 48.2 33.0 49.4





#15

2-Fluorobiphenyl

Concen: 0.105 ng

RT: 13.062 min Scan# 1323

Delta R.T. 0.011 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

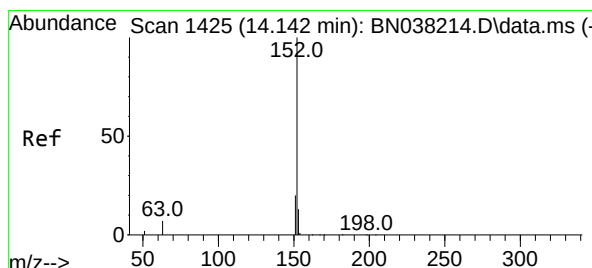
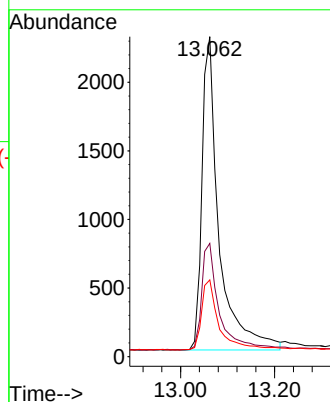
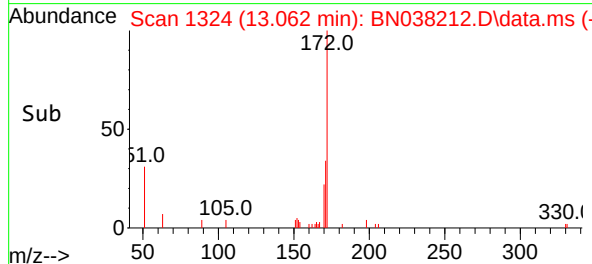
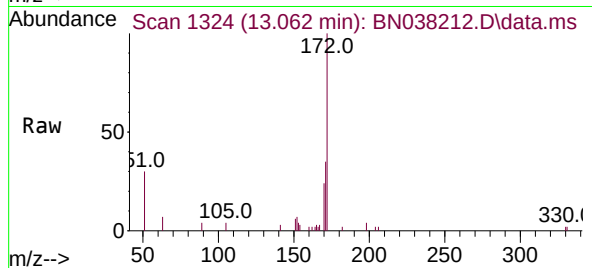
SSTDICC0.1

Tgt Ion:	172	Resp:	546
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	24.0	19.1	28.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#16

Acenaphthylene

Concen: 0.098 ng

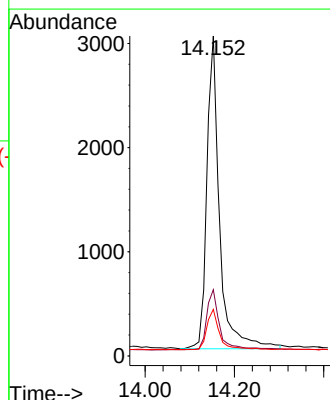
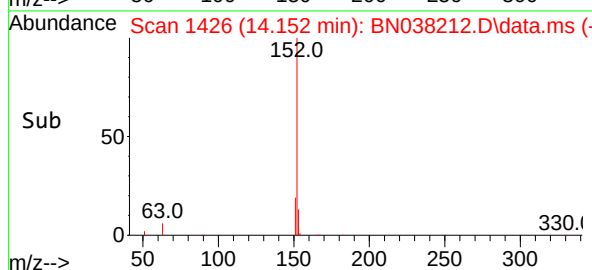
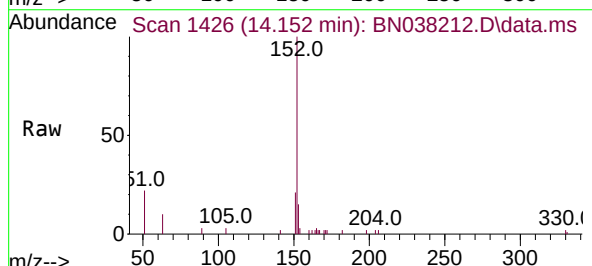
RT: 14.152 min Scan# 1426

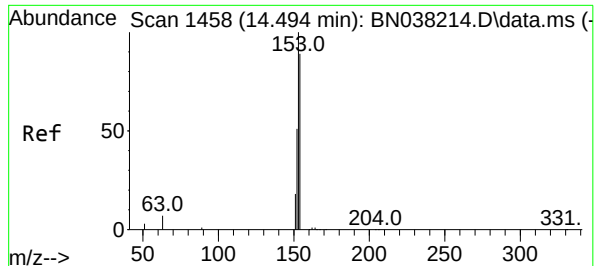
Delta R.T. 0.011 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

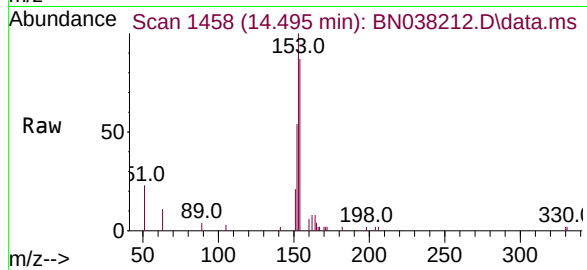
Tgt Ion:	152	Resp:	5921
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	13.1	10.6	15.8





#17
Acenaphthene
Concen: 0.100 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

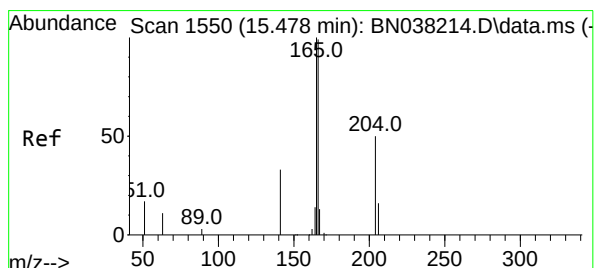
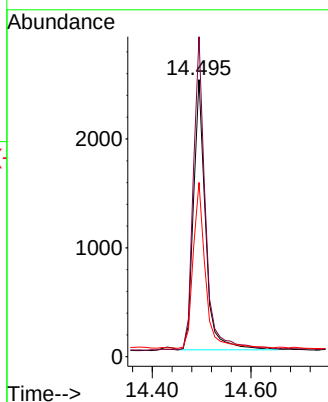
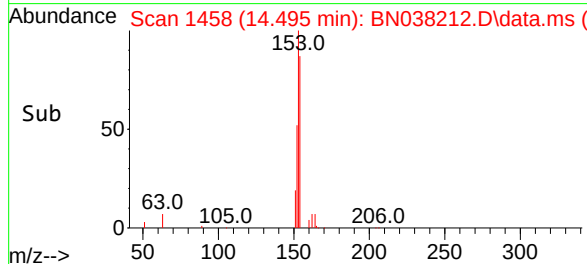
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



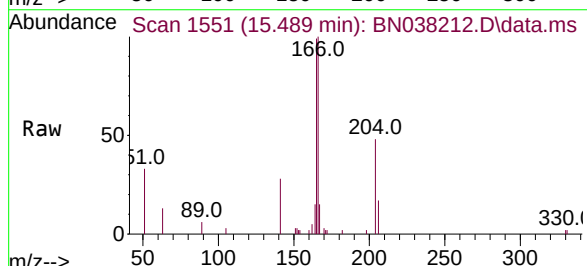
Tgt Ion:154 Resp: 4196
Ion Ratio Lower Upper
154 100
153 116.8 91.1 136.7
152 62.9 48.2 72.2

Manual Integrations
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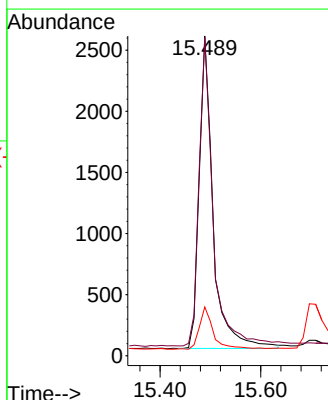
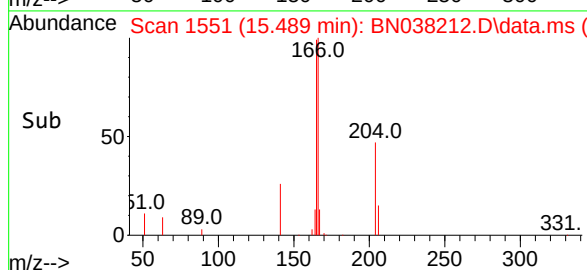
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

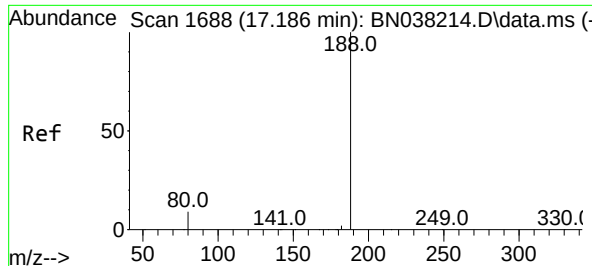


#18
Fluorene
Concen: 0.096 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35



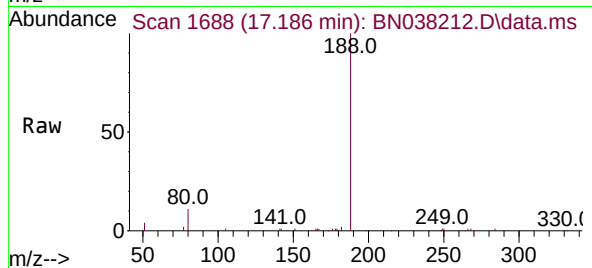
Tgt Ion:166 Resp: 5207
Ion Ratio Lower Upper
166 100
165 98.4 78.7 118.1
167 13.6 10.9 16.3





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

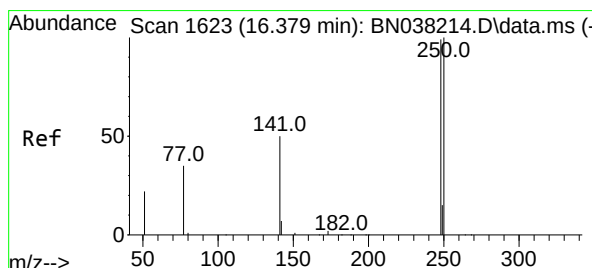
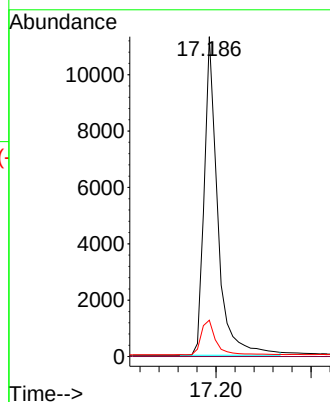
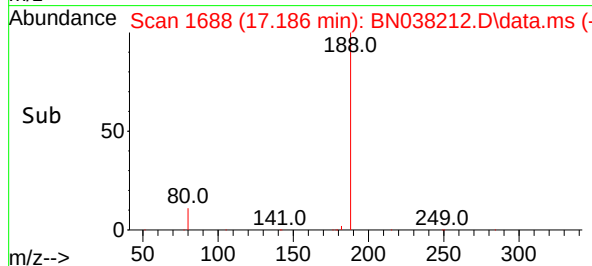
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



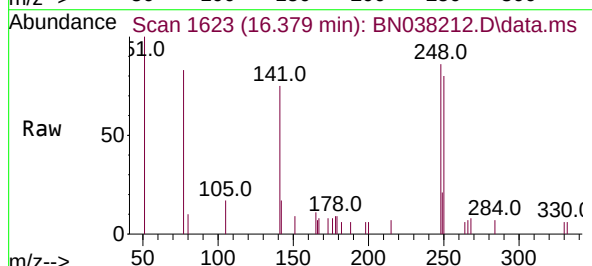
Tgt Ion:188 Resp: 22239
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.4 7.7 11.5

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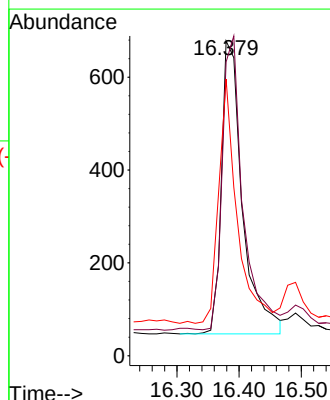
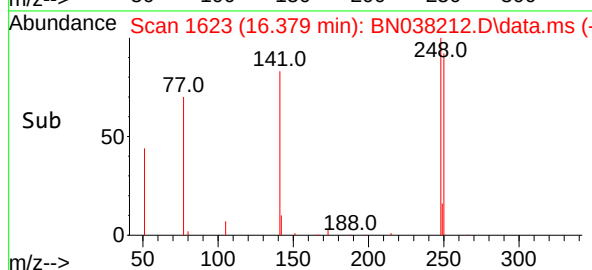
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

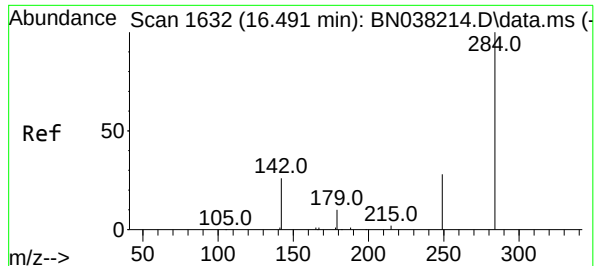


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35



Tgt Ion:248 Resp: 1492
Ion Ratio Lower Upper
248 100
250 93.4 80.8 121.2
141 87.9 41.0 61.6#





#22

Hexachlorobenzene

Concen: 0.111 ng

RT: 16.491 min Scan# 1632

Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

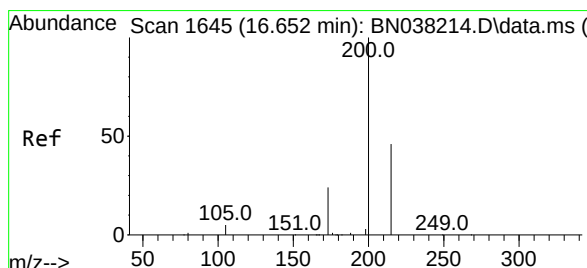
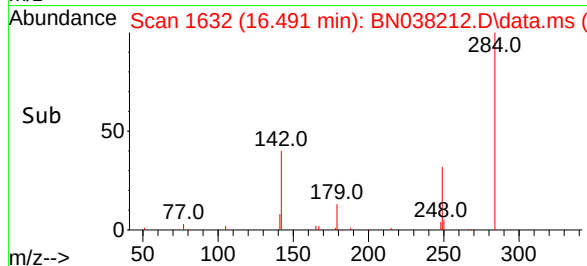
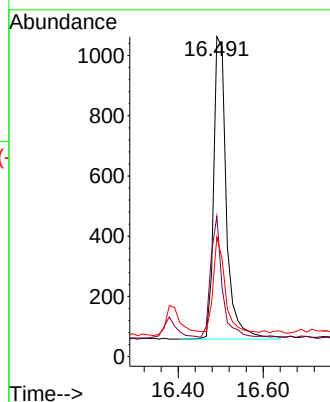
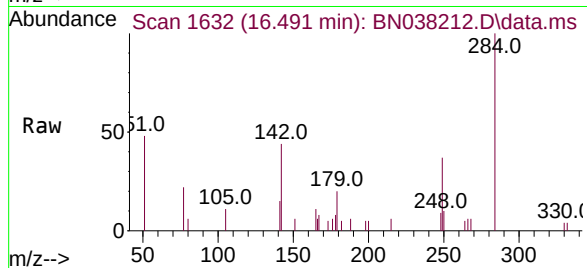
SSTDICC0.1

Tgt Ion:	284	Resp:	209
Ion Ratio	Lower	Upper	
284	100		
142	36.2	30.5	45.7
249	29.5	23.8	35.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#23

Atrazine

Concen: 0.093 ng

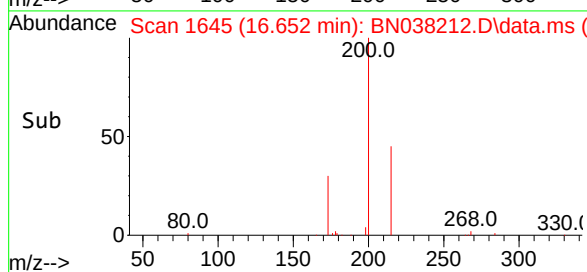
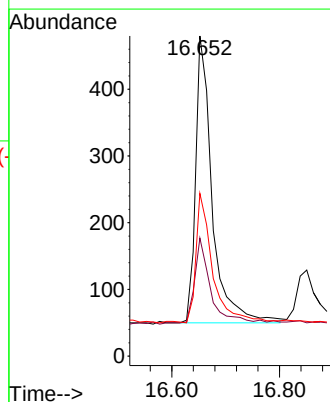
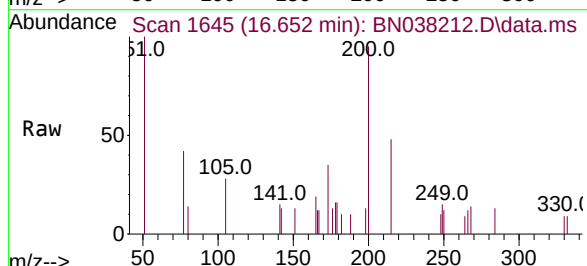
RT: 16.652 min Scan# 1645

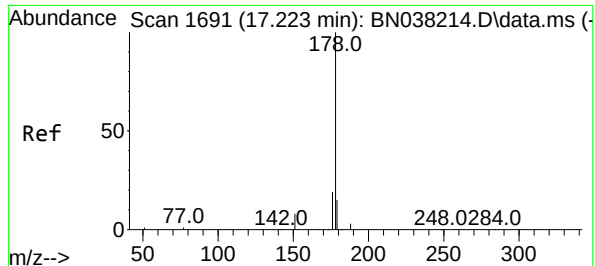
Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Tgt Ion:	200	Resp:	918
Ion Ratio	Lower	Upper	
200	100		
173	36.9	21.0	31.6
215	50.8	37.8	56.8





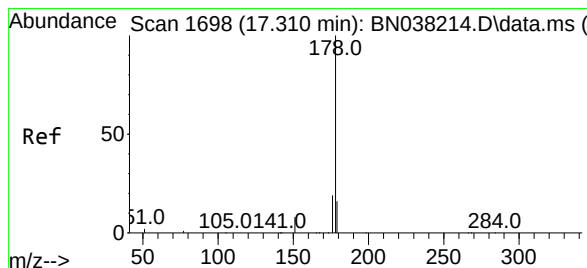
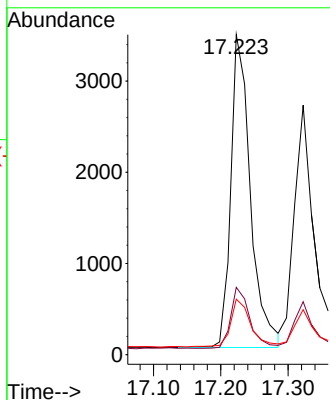
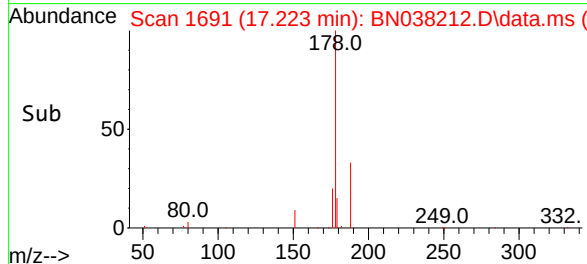
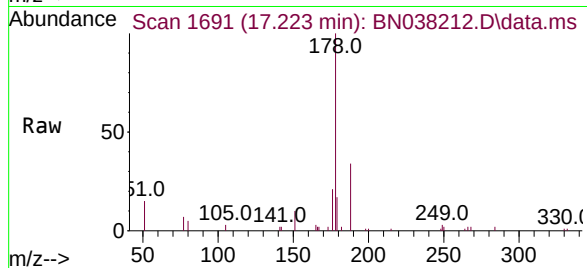
#25
Phenanthrene
Concen: 0.099 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 6934
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.6 12.0 18.0

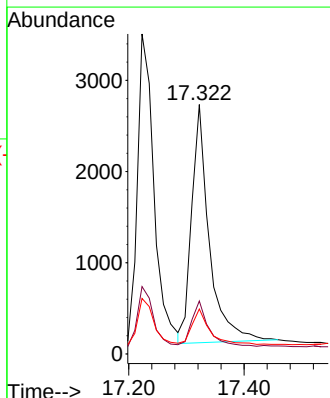
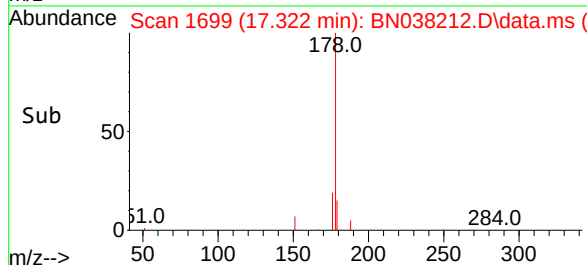
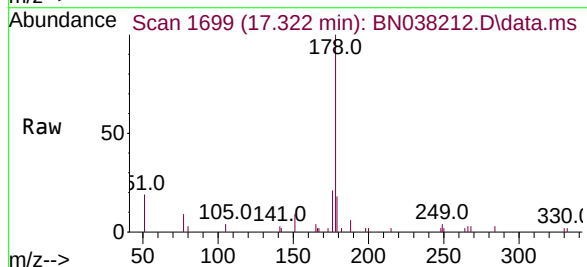
Manual Integrations
APPROVED

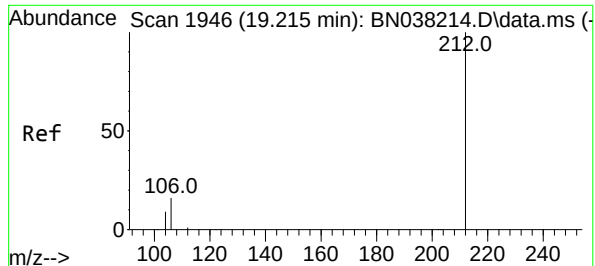
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#26
Anthracene
Concen: 0.093 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.013 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:178 Resp: 5536
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.005 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

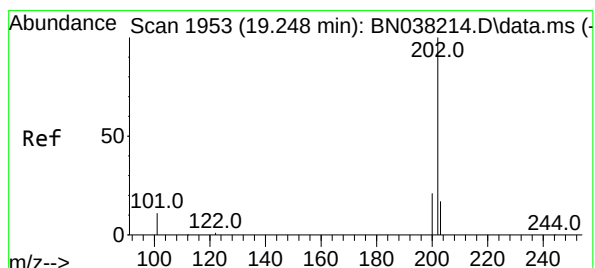
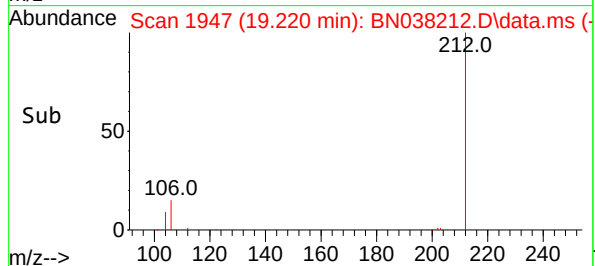
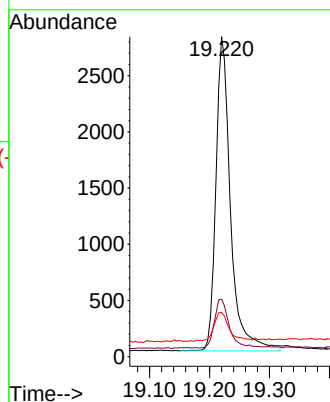
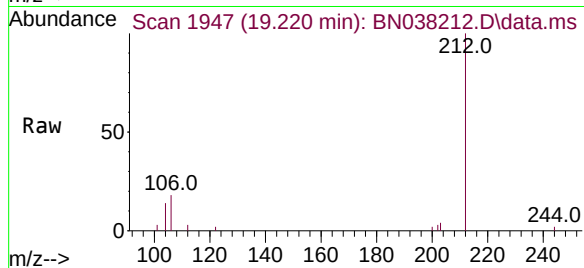
SSTDICC0.1

Tgt Ion:	212	Resp:	4740
Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.7	19.1
104	9.8	7.3	10.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#28

Fluoranthene

Concen: 0.097 ng

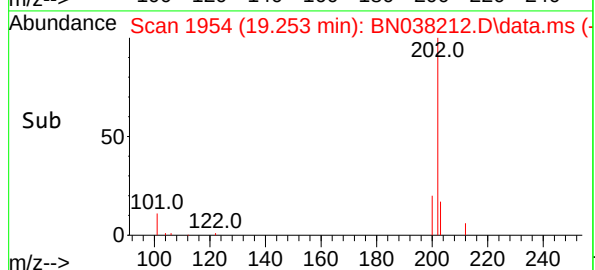
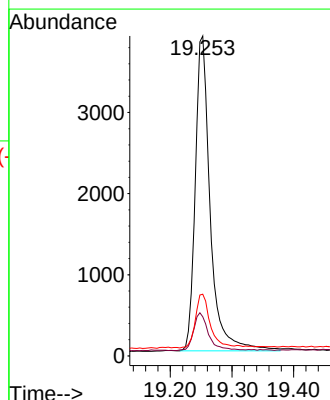
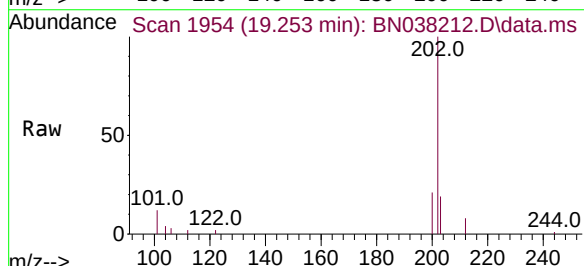
RT: 19.253 min Scan# 1954

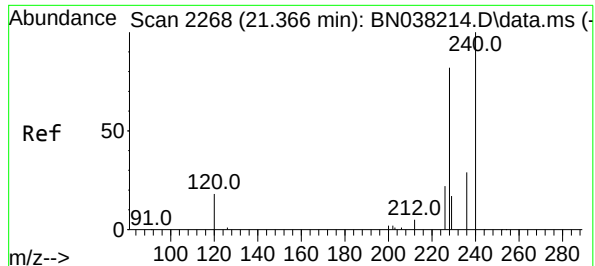
Delta R.T. 0.005 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Tgt Ion:	202	Resp:	6527
Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	16.8	13.6	20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

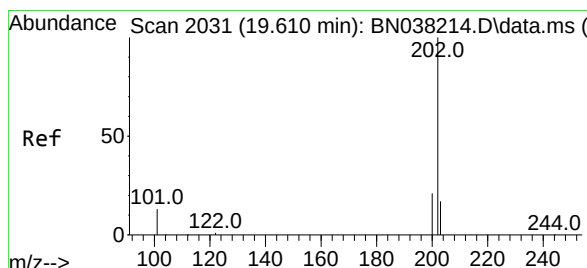
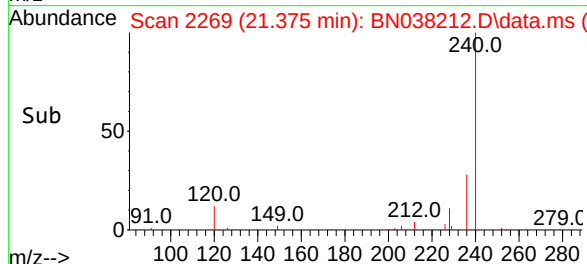
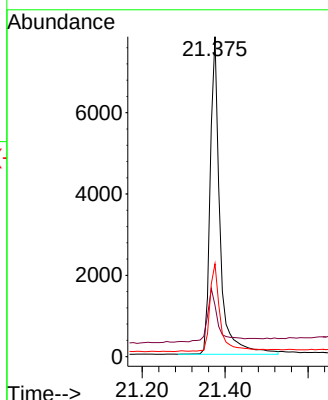
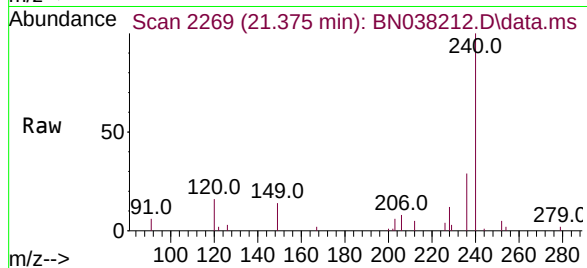
SSTDICC0.1

Tgt Ion:240	Resp:	12844
Ion Ratio	Lower	Upper
240	100	
120	16.0	18.1 27.1
236	29.0	24.2 36.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#30

Pyrene

Concen: 0.103 ng

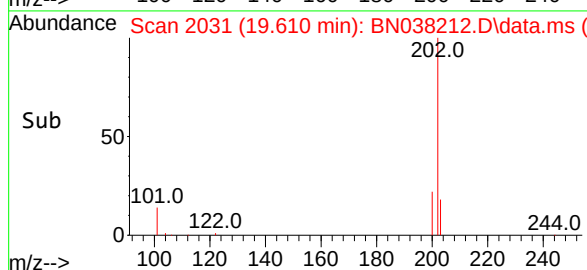
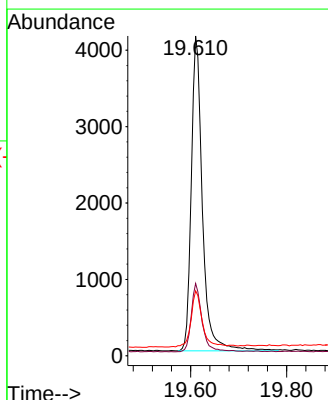
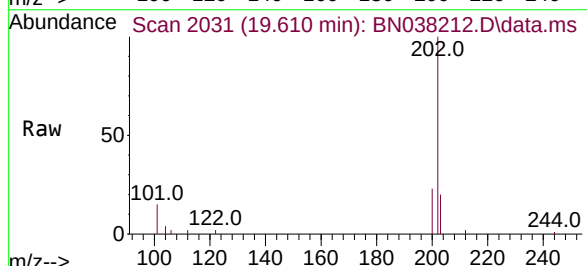
RT: 19.610 min Scan# 2031

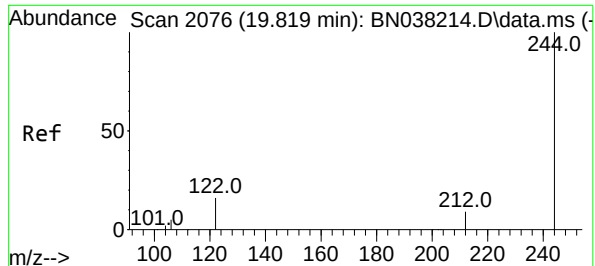
Delta R.T. 0.000 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Tgt Ion:202	Resp:	6634
Ion Ratio	Lower	Upper
202	100	
200	20.9	16.8 25.2
203	18.0	14.4 21.6





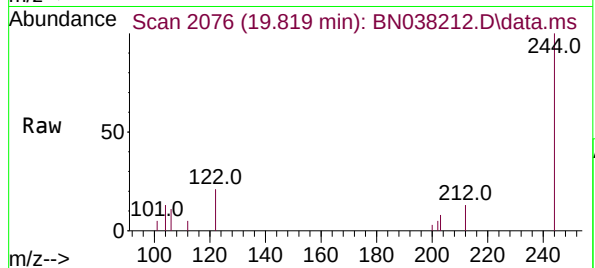
#31
Terphenyl-d14
Concen: 0.098 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

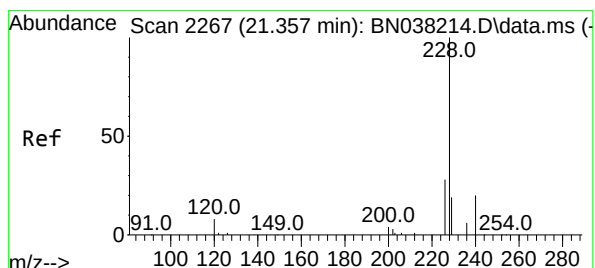
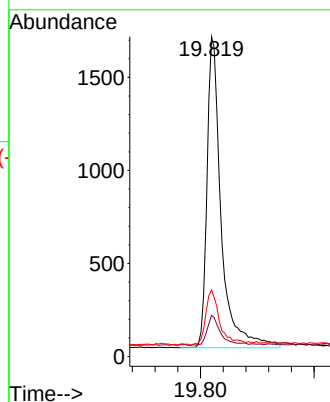
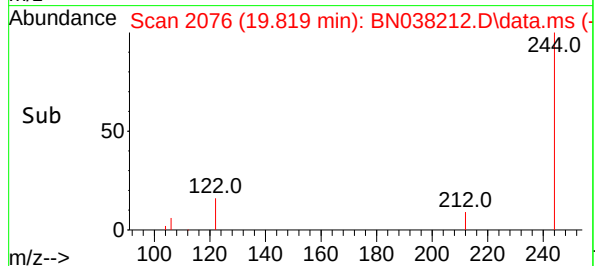


Tgt Ion:244 Resp: 2901
Ion Ratio Lower Upper
244 100
212 12.9 7.7 11.5
122 20.8 13.6 20.4

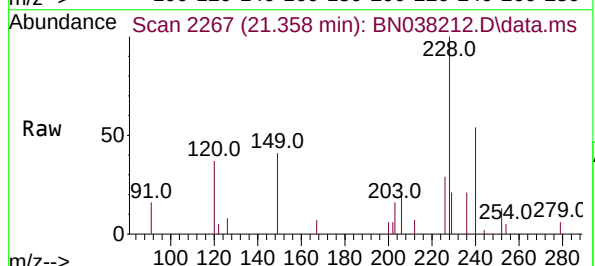
Manual Integrations

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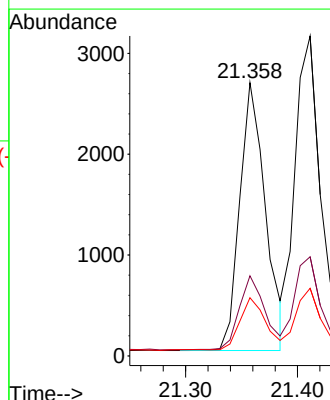
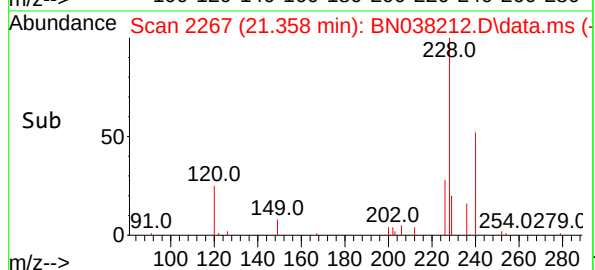
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

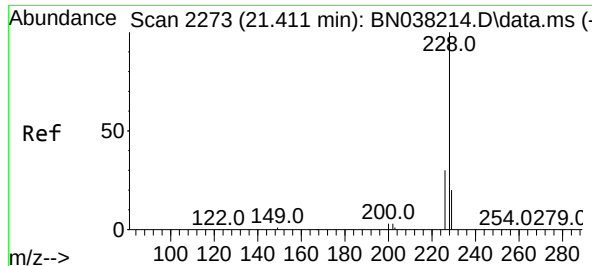


#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35



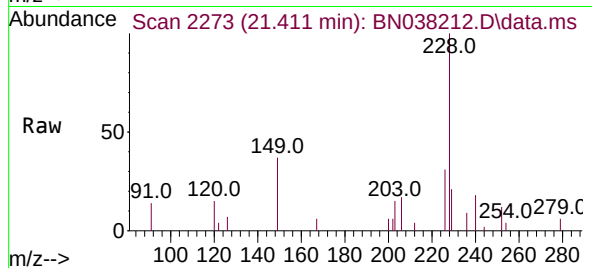
Tgt Ion:228 Resp: 4241
Ion Ratio Lower Upper
228 100
226 29.3 22.6 33.8
229 21.3 15.8 23.8





#33
Chrysene
Concen: 0.109 ng
RT: 21.411 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

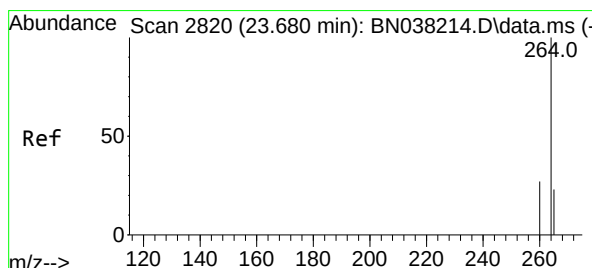
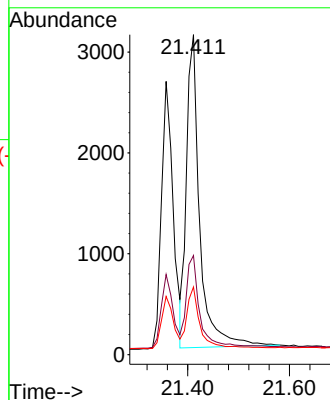
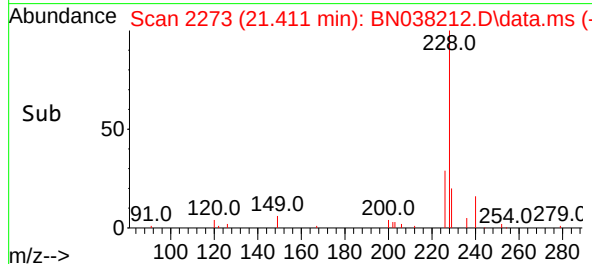
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 5593
Ion Ratio Lower Upper
228 100
226 31.0 23.8 35.8
229 21.1 16.1 24.1

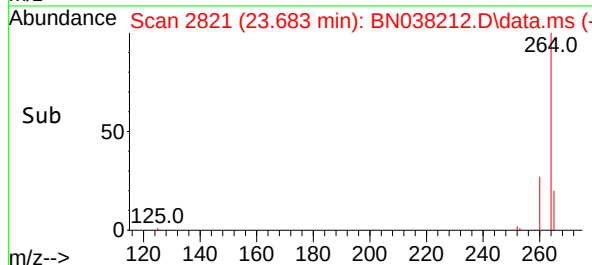
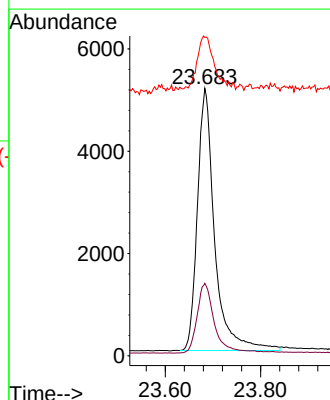
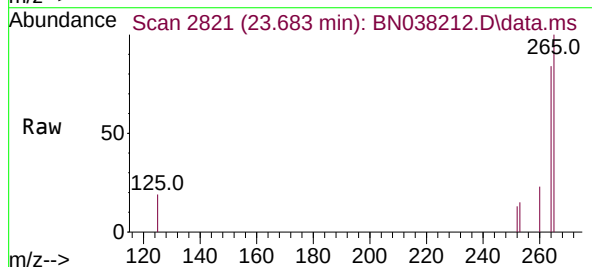
Manual Integrations
APPROVED

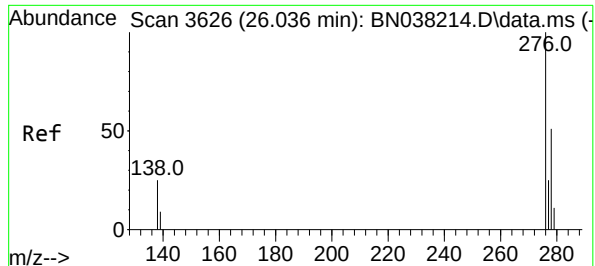
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 2821
Delta R.T. 0.003 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

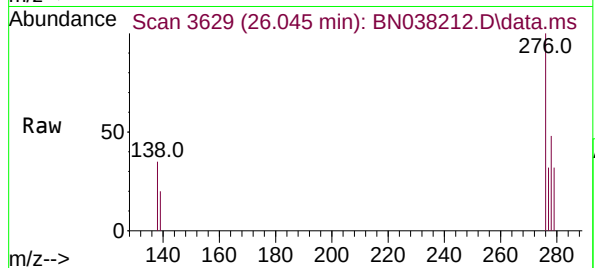
Tgt Ion:264 Resp: 12898
Ion Ratio Lower Upper
264 100
260 27.1 21.7 32.5
265 119.1 98.0 147.0





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.094 ng
RT: 26.045 min Scan# 3629
Delta R.T. 0.009 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

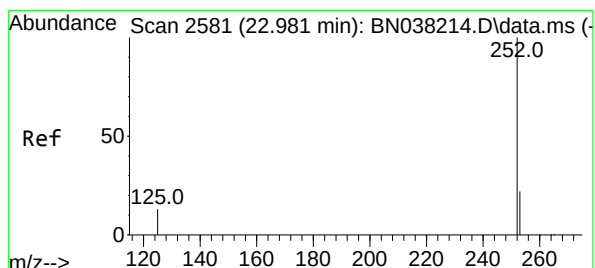
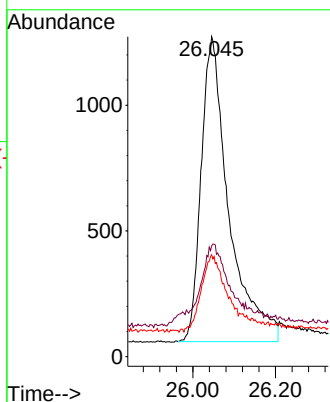
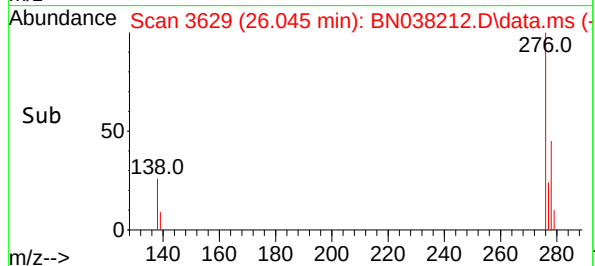
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 276 Resp: 5633
Ion Ratio Lower Upper
276 100
138 20.5 21.4 32.2#
277 22.5 19.1 28.7#

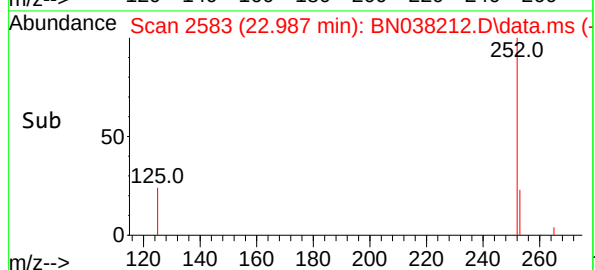
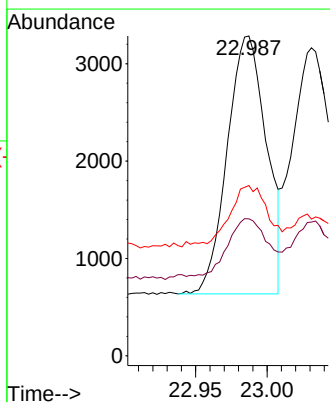
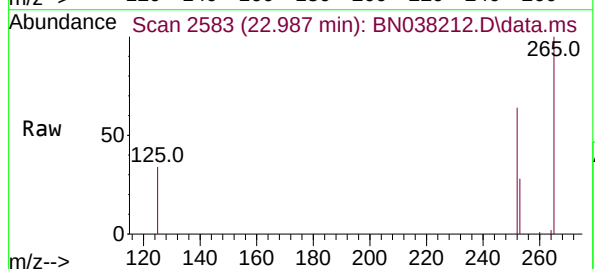
Manual Integrations
APPROVED

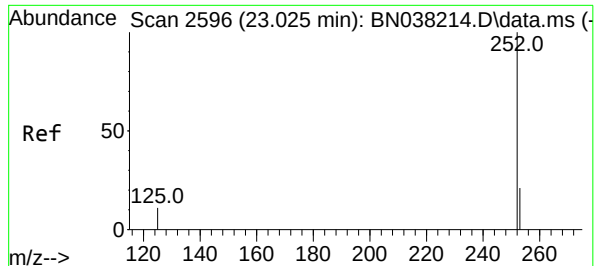
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.987 min Scan# 2583
Delta R.T. 0.006 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion: 252 Resp: 5040
Ion Ratio Lower Upper
252 100
253 42.8 22.2 33.4#
125 53.2 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 0.095 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

Instrument :

BNA_N

ClientSampleId :

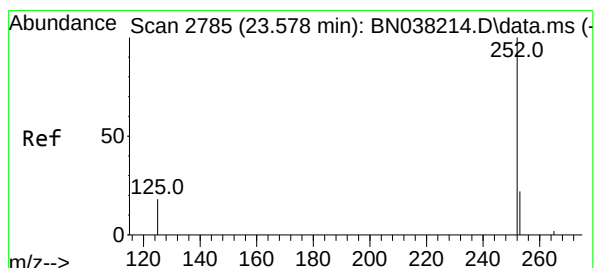
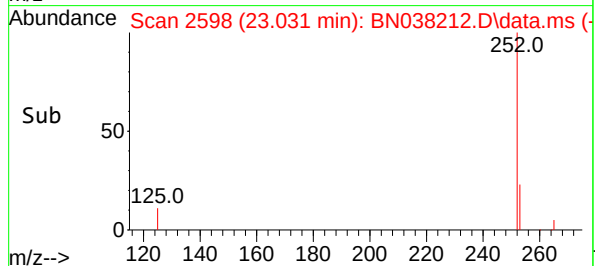
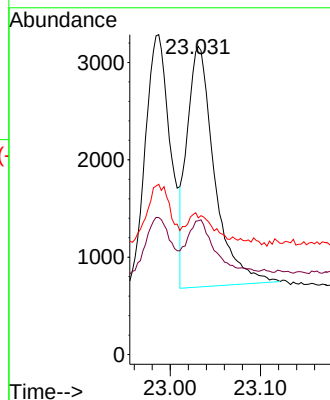
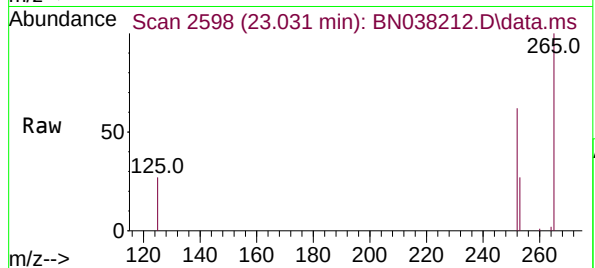
SSTDICC0.1

Tgt Ion:252	Resp:	5245
Ion Ratio	Lower	Upper
252	100	
253	43.4	22.4 33.6
125	44.4	17.5 26.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#39

Benzo(a)pyrene

Concen: 0.103 ng

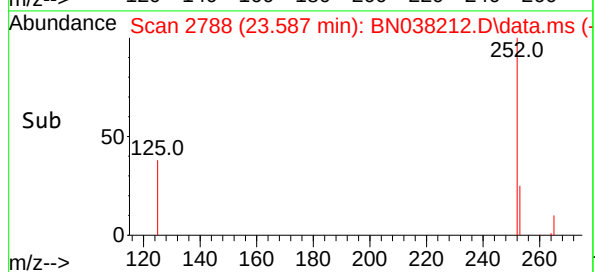
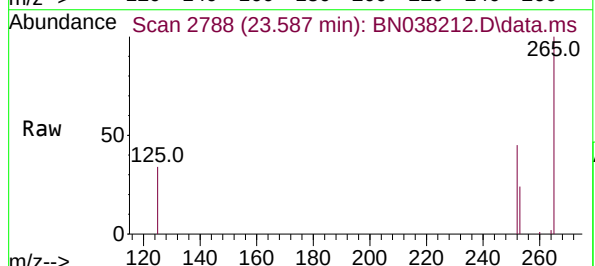
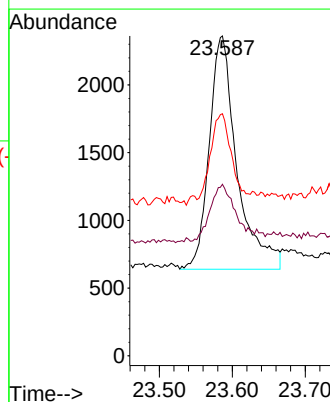
RT: 23.587 min Scan# 2788

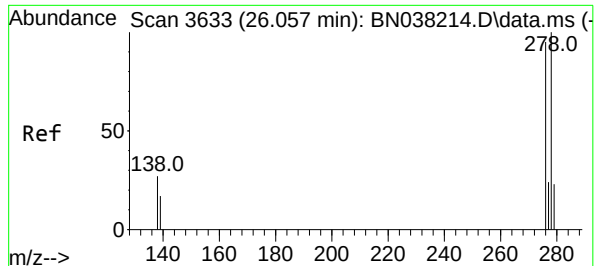
Delta R.T. 0.009 min

Lab File: BN038212.D

Acq: 26 Nov 2025 20:35

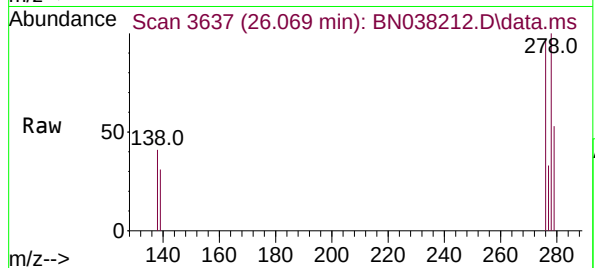
Tgt Ion:252	Resp:	4558
Ion Ratio	Lower	Upper
252	100	
253	53.6	25.3 37.9
125	75.7	25.2 37.8





#40
Dibenzo(a,h)anthracene
Concen: 0.090 ng
RT: 26.069 min Scan# 3633
Delta R.T. 0.012 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

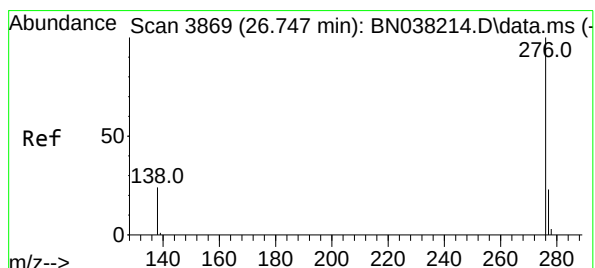
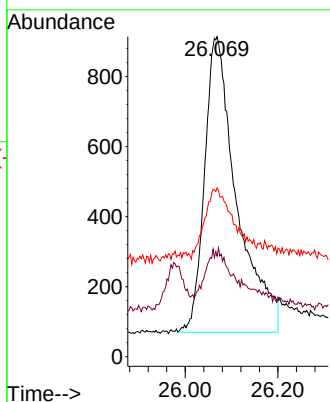
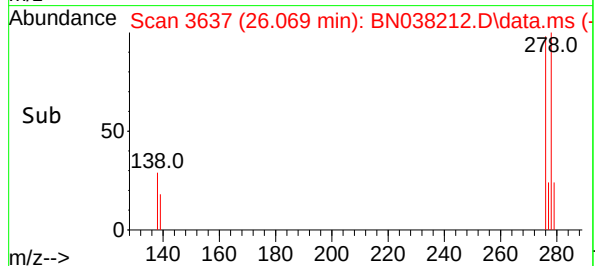
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:278 Resp: 4072
Ion Ratio Lower Upper
278 100
139 31.4 17.6 26.4#
279 52.7 24.2 36.4#

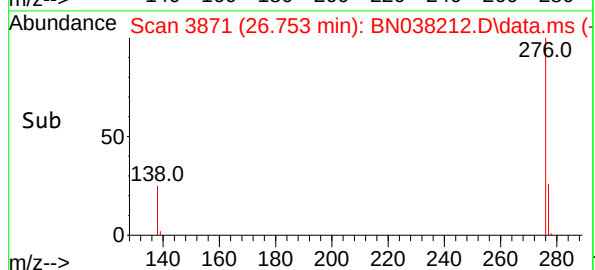
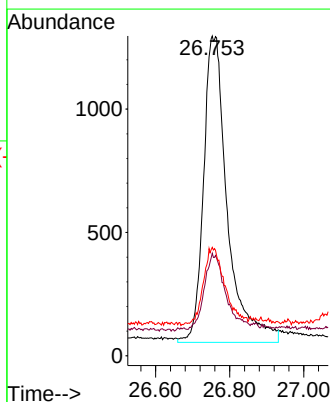
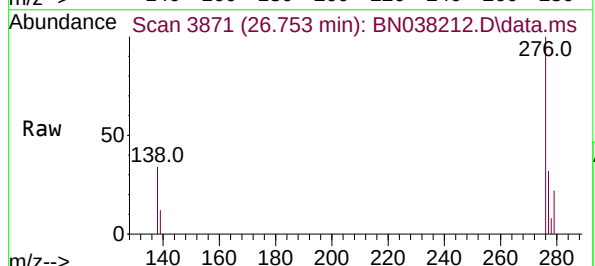
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#41
Benzo(g,h,i)perylene
Concen: 0.103 ng m
RT: 26.753 min Scan# 3871
Delta R.T. 0.006 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:276 Resp: 5553
Ion Ratio Lower Upper
276 100
277 32.1 20.2 30.2#
138 33.9 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038213.D
 Acq On : 26 Nov 2025 21:12
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

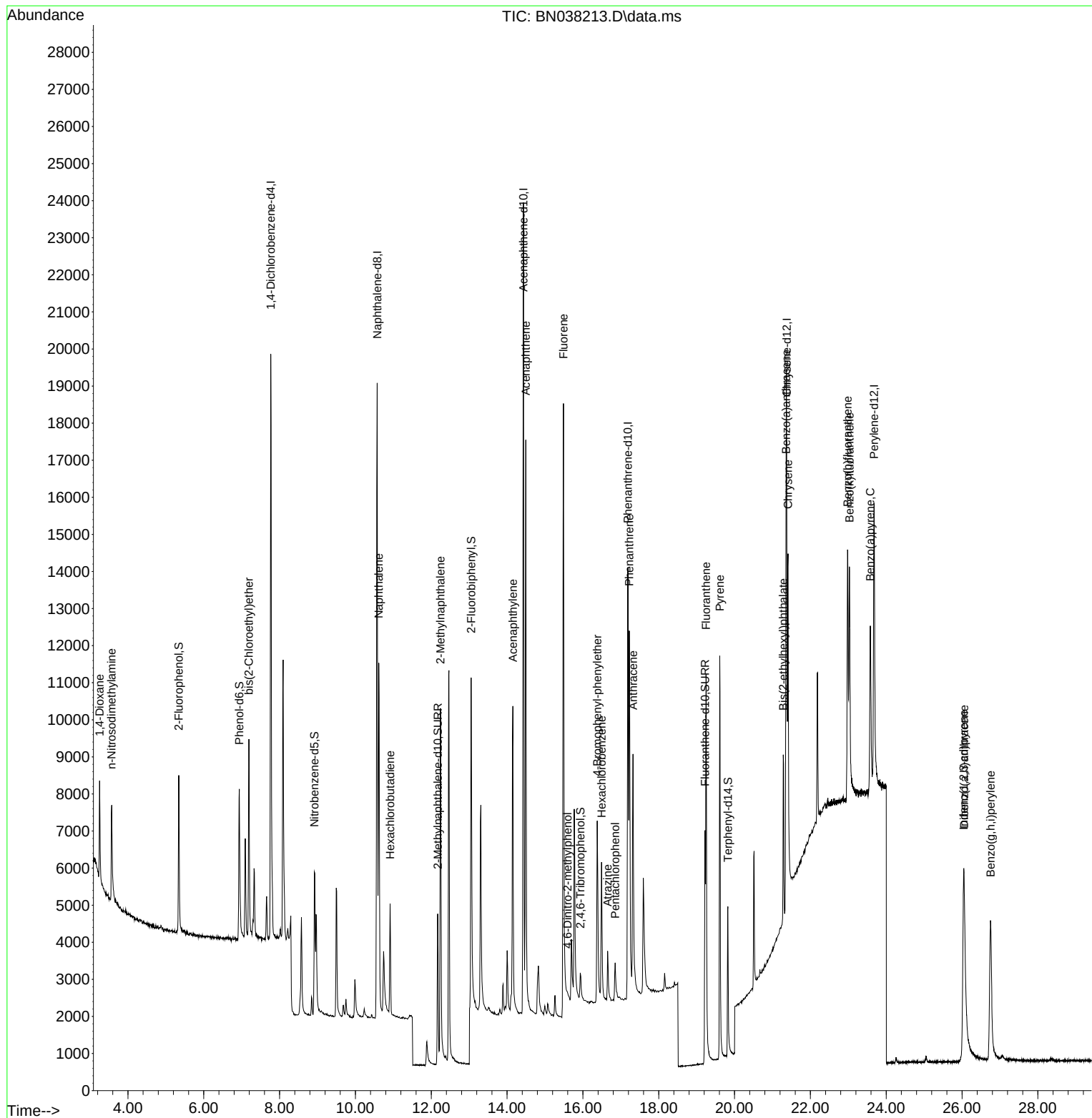
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8206	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	24762	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	13187	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	19574	0.400	ng	# 0.00
29) Chrysene-d12	21.375	240	12487	0.400	ng	# 0.00
35) Perylene-d12	23.680	264	12455	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	3817	0.199	ng	0.00
5) Phenol-d6	6.937	99	4526	0.189	ng	0.00
8) Nitrobenzene-d5	8.918	82	3887	0.196	ng	0.00
11) 2-Methylnaphthalene-d10	12.172	152	6785	0.193	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	657	0.158	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	10212	0.200	ng	0.00
27) Fluoranthene-d10	19.220	212	8268	0.195	ng	0.00
31) Terphenyl-d14	19.824	244	5290	0.183	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	1986	0.230	ng	90
3) n-Nitrosodimethylamine	3.564	42	2003	0.188	ng	97
6) bis(2-Chloroethyl)ether	7.190	93	4586	0.200	ng	98
9) Naphthalene	10.616	128	13644	0.198	ng	99
10) Hexachlorobutadiene	10.914	225	2378	0.203	ng	# 98
12) 2-Methylnaphthalene	12.243	142	8631	0.191	ng	99
16) Acenaphthylene	14.152	152	11108	0.188	ng	99
17) Acenaphthene	14.494	154	7968	0.194	ng	98
18) Fluorene	15.489	166	9508	0.179	ng	98
20) 4,6-Dinitro-2-methylph...	15.597	198	206	0.227	ng	# 1
21) 4-Bromophenyl-phenylether	16.379	248	2619	0.193	ng	# 85
22) Hexachlorobenzene	16.491	284	3585	0.215	ng	99
23) Atrazine	16.652	200	1535	0.177	ng	# 95
24) Pentachlorophenol	16.851	266	882	0.193	ng	94
25) Phenanthrene	17.223	178	11817	0.192	ng	99
26) Anthracene	17.322	178	9765	0.186	ng	100
28) Fluoranthene	19.248	202	11226	0.190	ng	99
30) Pyrene	19.610	202	11263	0.181	ng	100
32) Benzo(a)anthracene	21.357	228	7938	0.188	ng	98
33) Chrysene	21.411	228	10232	0.205	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	4872	0.210	ng	100
36) Indeno(1,2,3-cd)pyrene	26.039	276	10679	0.185	ng	96
37) Benzo(b)fluoranthene	22.984	252	9683	0.189	ng	# 84
38) Benzo(k)fluoranthene	23.028	252	10204	0.192	ng	# 86
39) Benzo(a)pyrene	23.581	252	7993	0.187	ng	# 76
40) Dibenzo(a,h)anthracene	26.054	278	7682	0.176	ng	# 86
41) Benzo(g,h,i)perylene	26.753	276	9876	0.190	ng	97

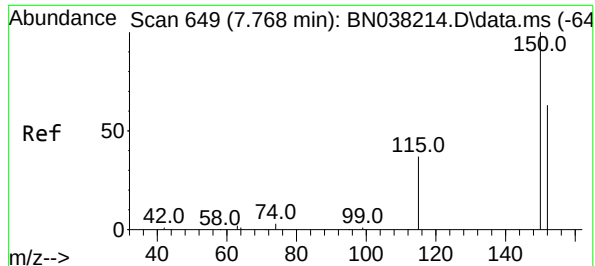
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038213.D
Acq On : 26 Nov 2025 21:12
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

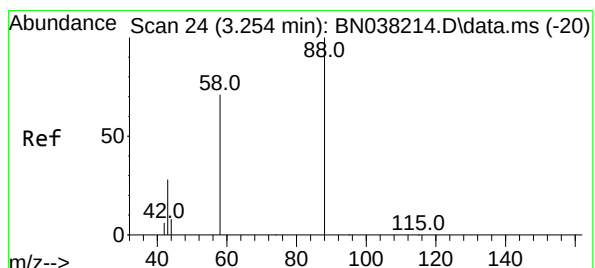
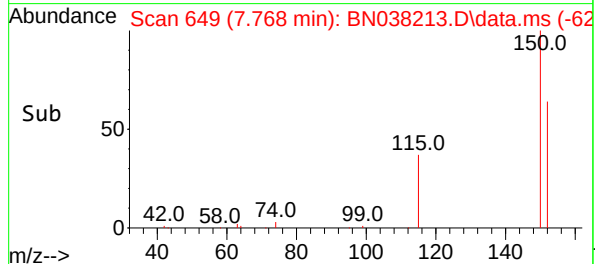
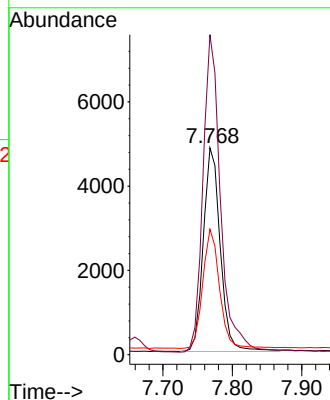
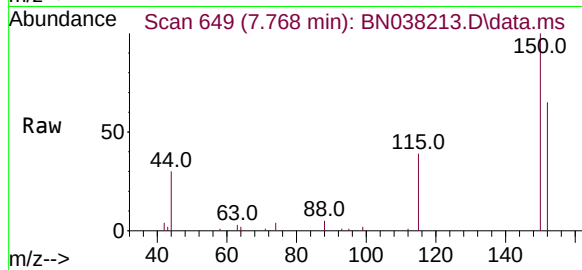




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

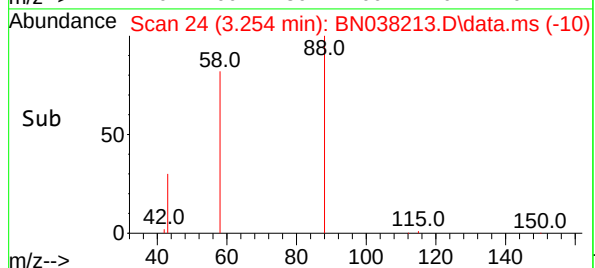
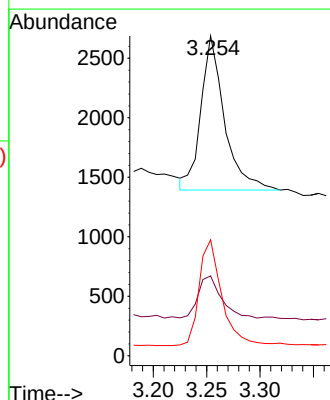
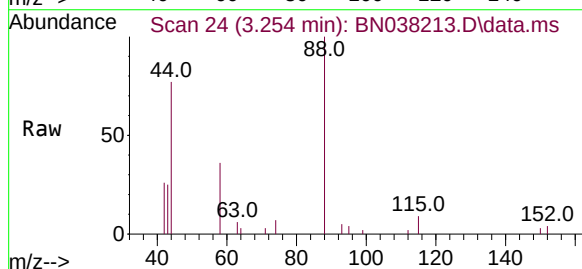
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

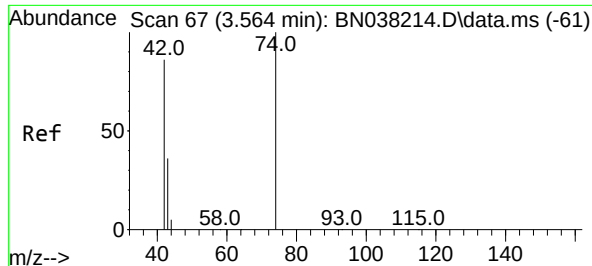
Tgt Ion:152 Resp: 8206
Ion Ratio Lower Upper
152 100
150 154.7 125.3 187.9
115 60.6 49.0 73.4



#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion: 88 Resp: 1986
Ion Ratio Lower Upper
88 100
43 28.2 24.8 37.2
58 66.3 61.1 91.7

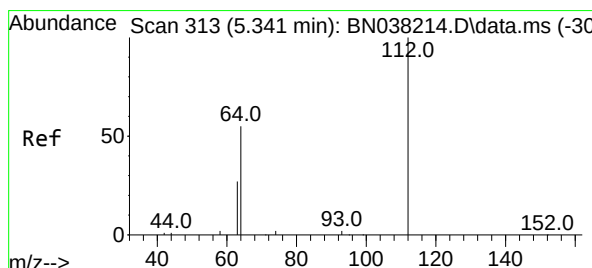
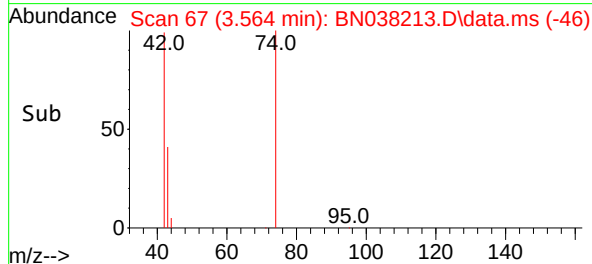
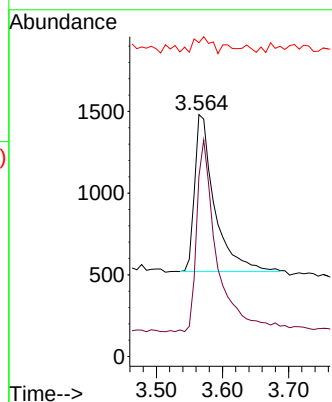
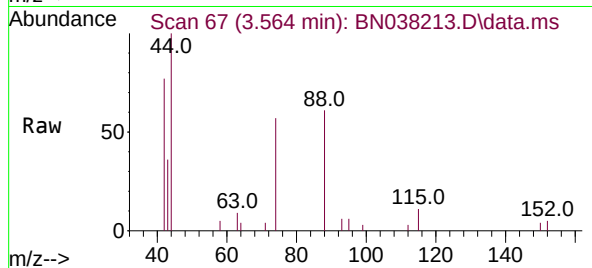




#3
n-Nitrosodimethylamine
Concen: 0.188 ng
RT: 3.564 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

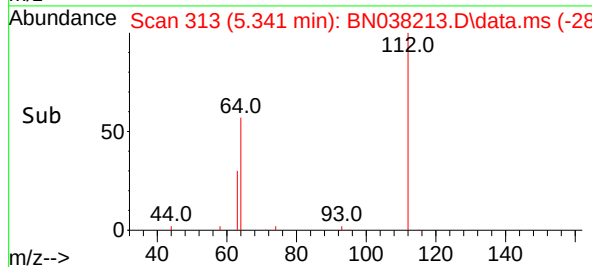
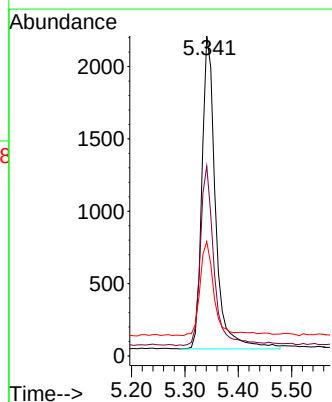
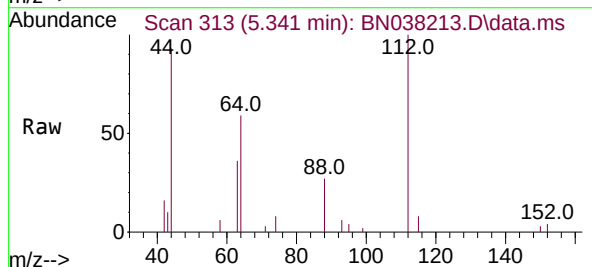
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

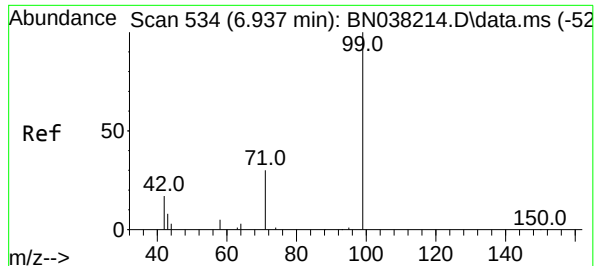
Tgt Ion: 42 Resp: 2003
Ion Ratio Lower Upper
42 100
74 124.3 96.2 144.2
44 9.6 8.0 12.0



#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.341 min Scan# 313
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion: 112 Resp: 3817
Ion Ratio Lower Upper
112 100
64 57.3 45.0 67.4
63 30.5 23.2 34.8

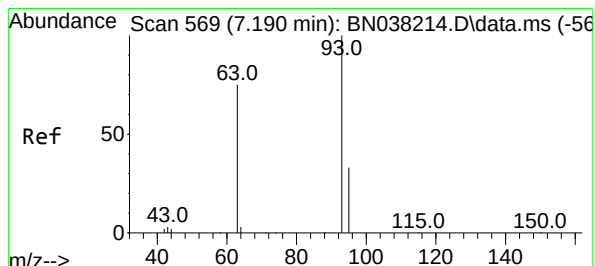
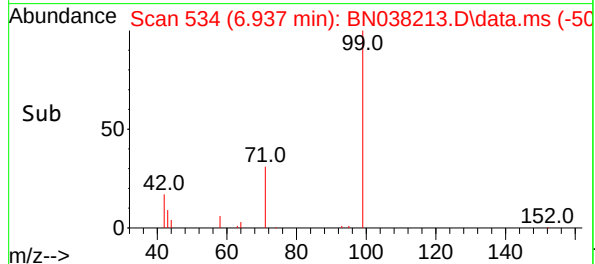
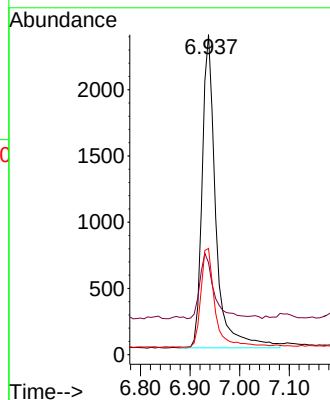
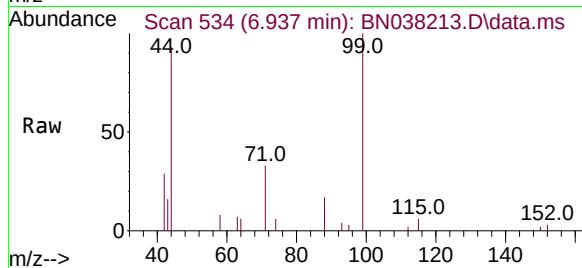




#5
Phenol-d6
Concen: 0.189 ng
RT: 6.937 min Scan# 534
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

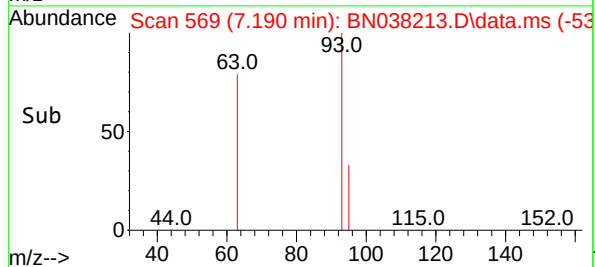
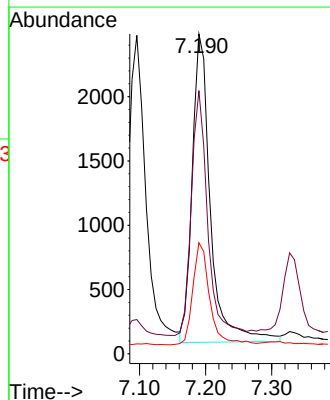
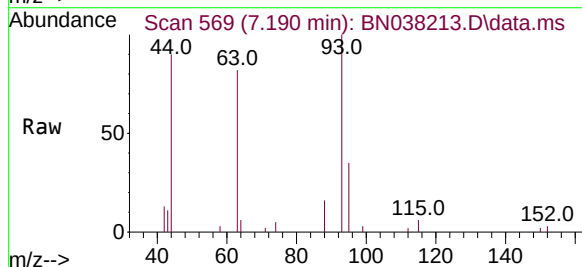
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

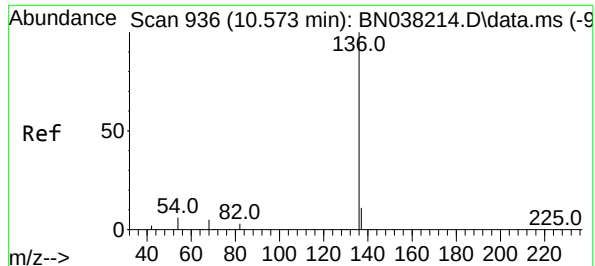
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.0	25.6
71	32.7	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.200 ng
RT: 7.190 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion	Ratio	Lower	Upper
93	100		
63	70.6	58.1	87.1
95	30.7	25.1	37.7

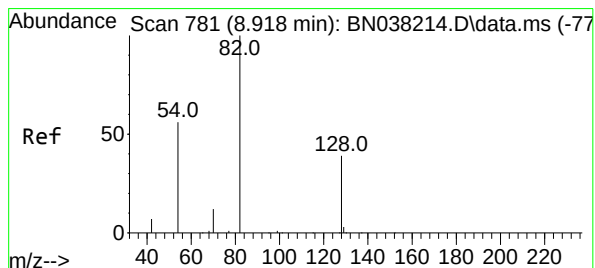
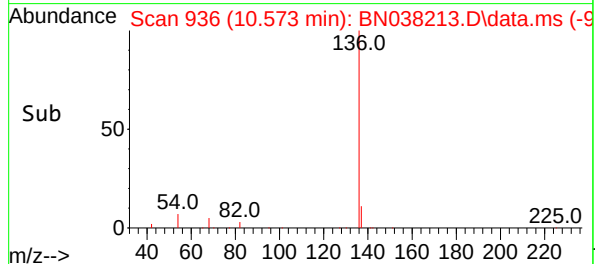
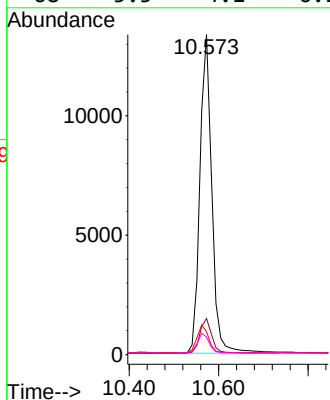
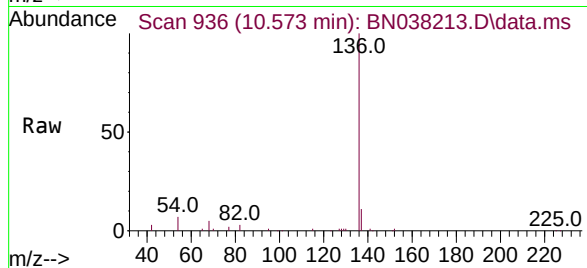




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

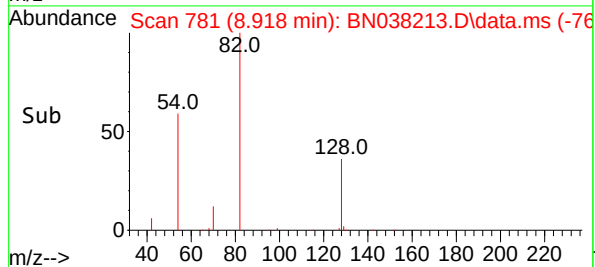
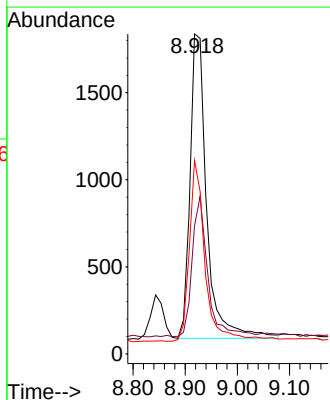
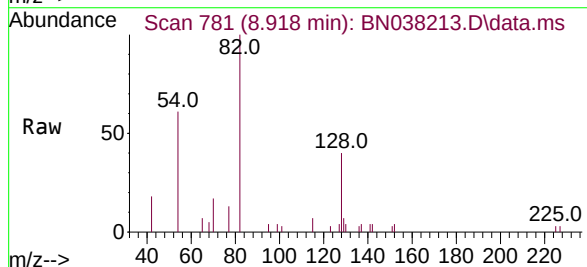
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

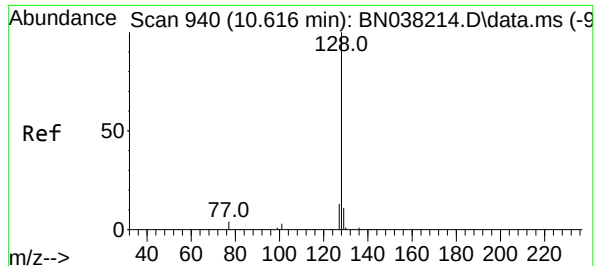
Tgt Ion:	136	Resp:	24762
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.1	5.4	8.0
68	5.5	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.196 ng
RT: 8.918 min Scan# 781
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:	82	Resp:	3887
Ion	Ratio	Lower	Upper
82	100		
128	40.0	32.6	48.8
54	60.5	45.4	68.0

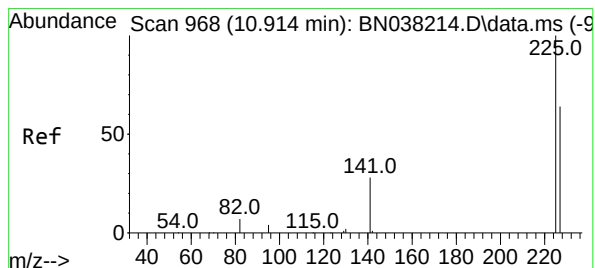
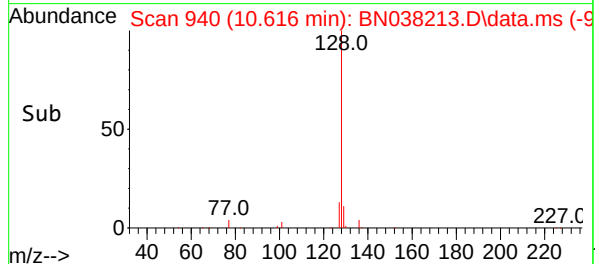
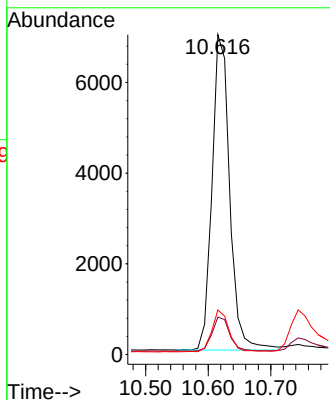
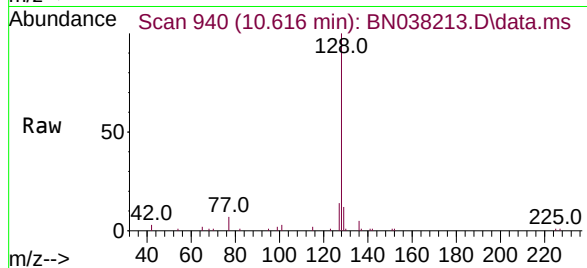




#9
Naphthalene
Concen: 0.198 ng
RT: 10.616 min Scan# 940
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

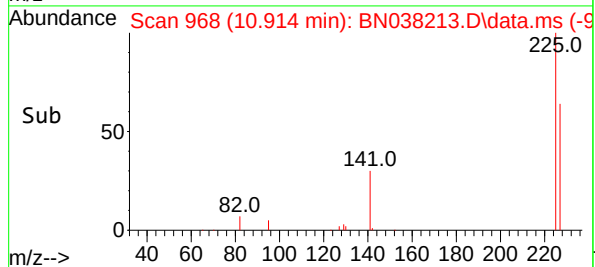
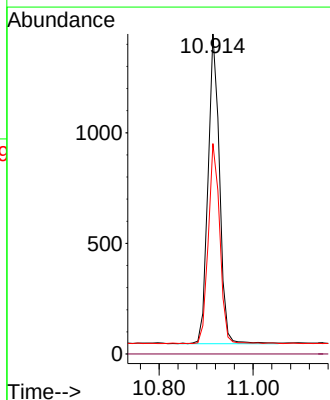
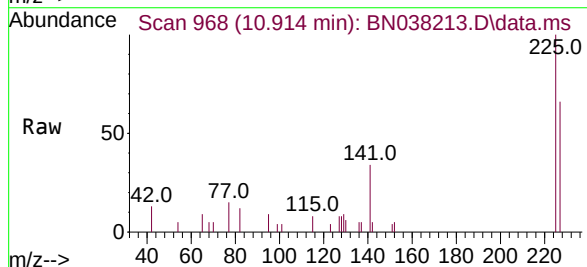
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

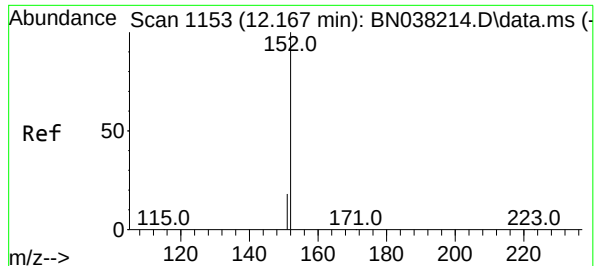
Tgt Ion:128 Resp: 13644
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.9 10.6 16.0



#10
Hexachlorobutadiene
Concen: 0.203 ng
RT: 10.914 min Scan# 968
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:225 Resp: 2378
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 50.5 75.7

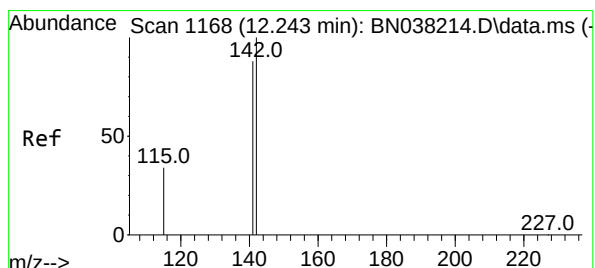
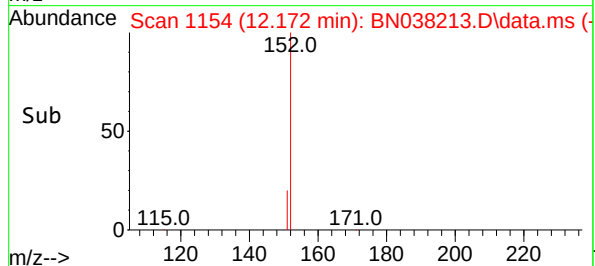
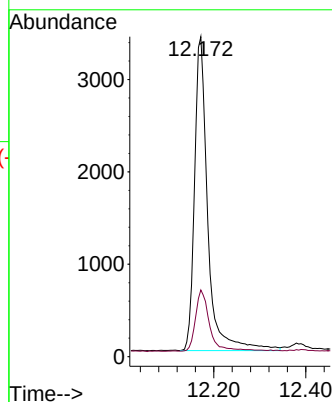
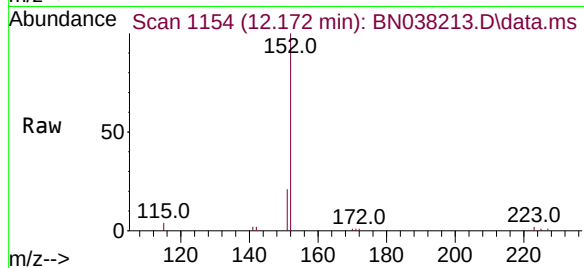




#11
2-Methylnaphthalene-d10
Concen: 0.193 ng
RT: 12.172 min Scan# 1153
Delta R.T. 0.005 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

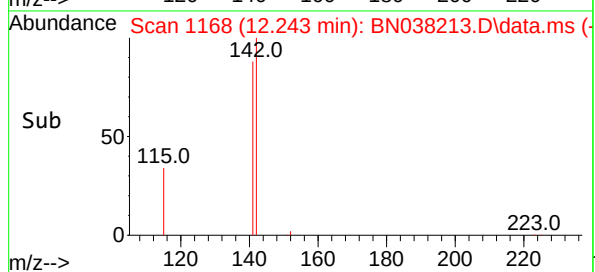
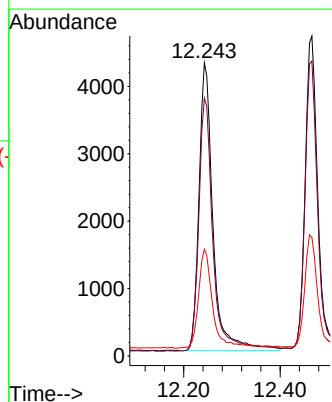
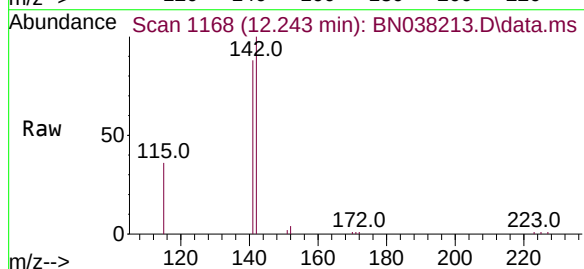
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

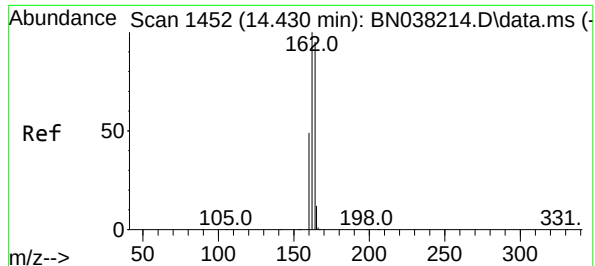
Tgt Ion:152 Resp: 6785
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:142 Resp: 8631
Ion Ratio Lower Upper
142 100
141 88.0 70.9 106.3
115 36.4 27.7 41.5

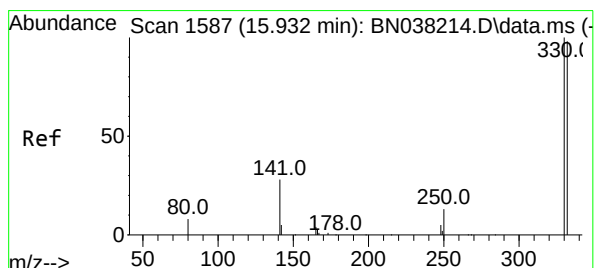
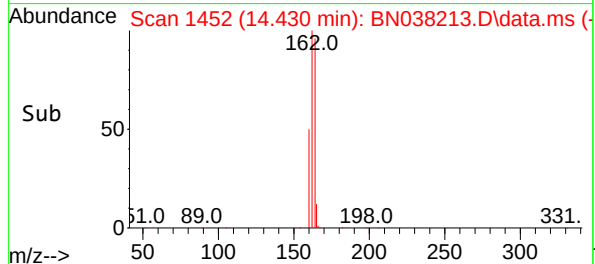
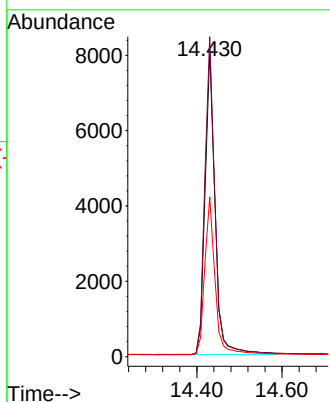
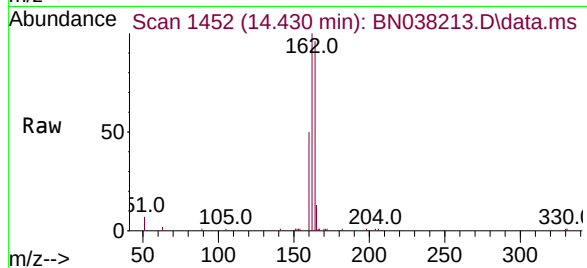




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

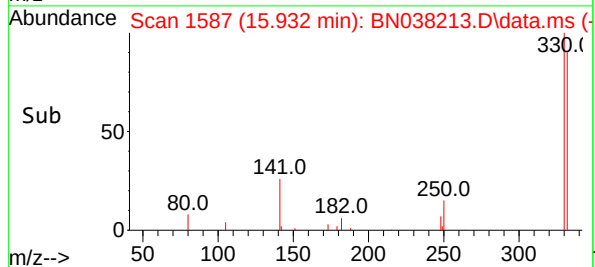
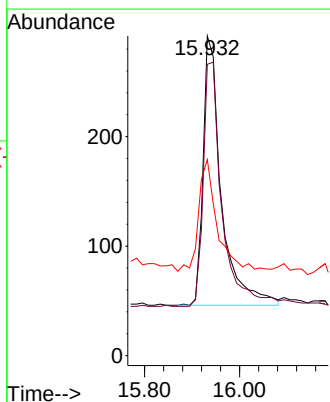
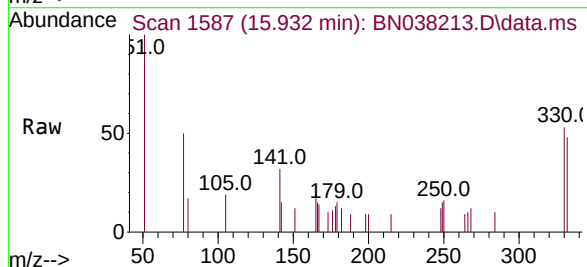
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

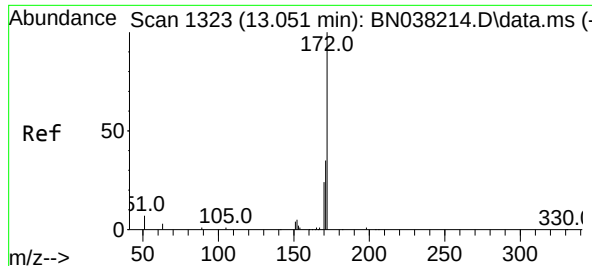
Tgt Ion:164 Resp: 13187
Ion Ratio Lower Upper
164 100
162 104.5 83.8 125.8
160 52.2 41.6 62.4



#14
2,4,6-Tribromophenol
Concen: 0.158 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:330 Resp: 657
Ion Ratio Lower Upper
330 100
332 93.0 77.8 116.6
141 42.0 33.0 49.4

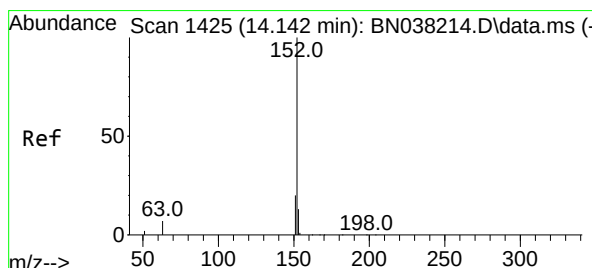
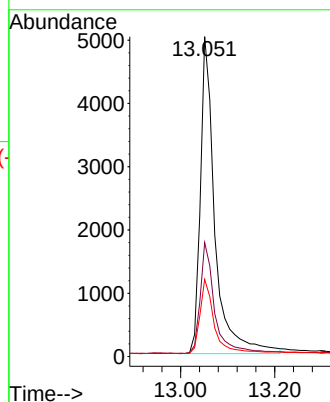
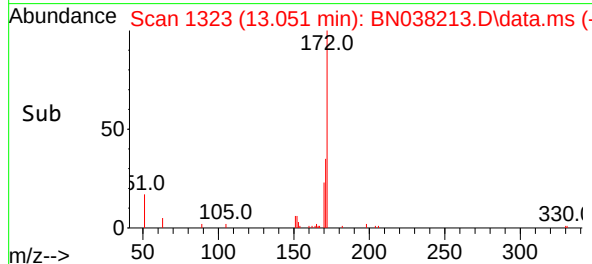
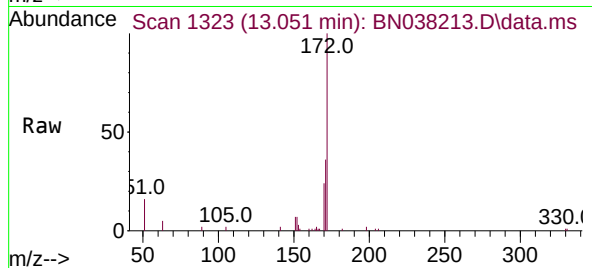




#15
2-Fluorobiphenyl
Concen: 0.200 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

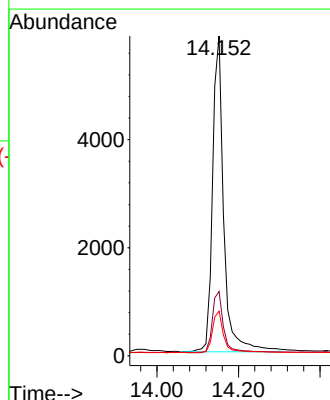
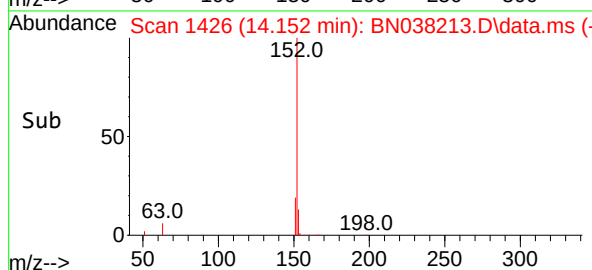
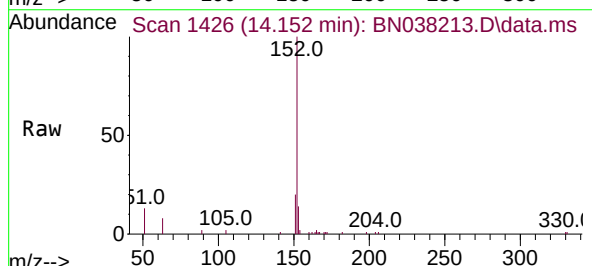
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

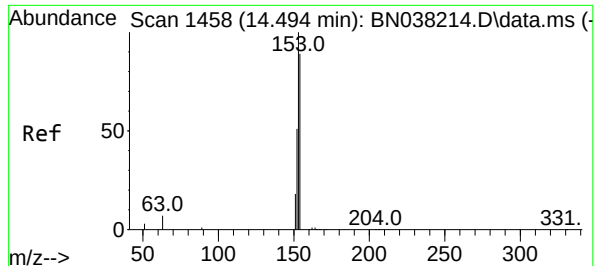
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.1	42.1
170	24.1	19.1	28.7



#16
Acenaphthylene
Concen: 0.188 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.011 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.6	23.4
153	13.2	10.6	15.8

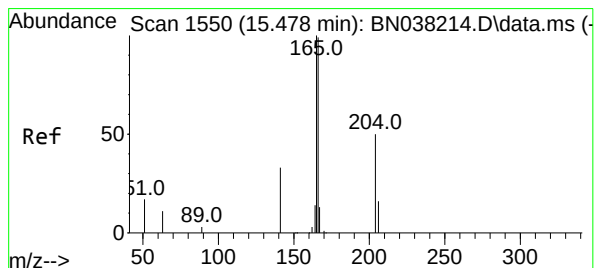
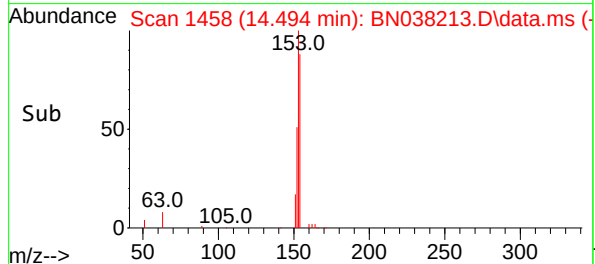
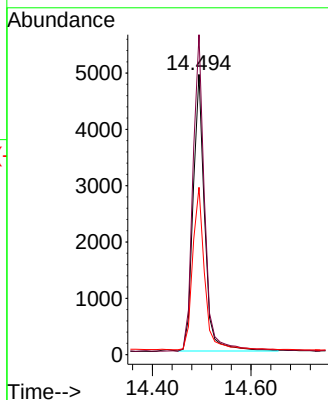
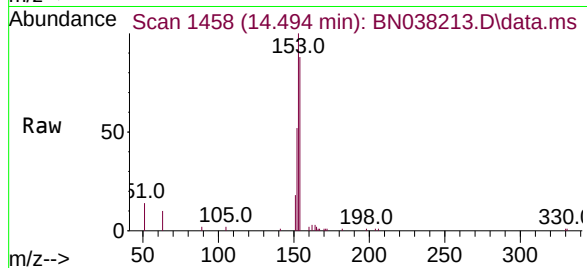




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.494 min Scan# 1458
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

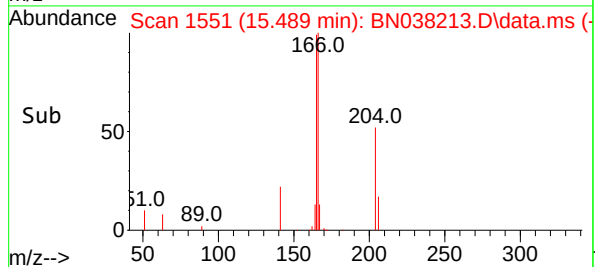
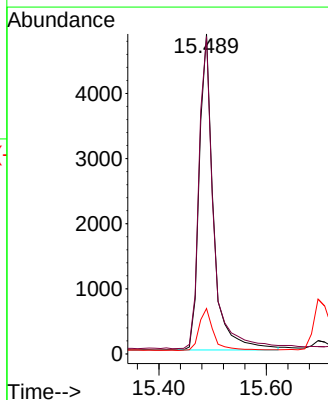
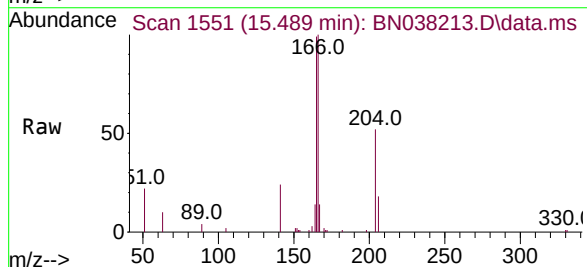
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

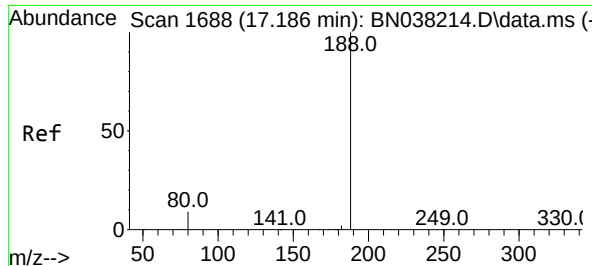
Tgt Ion:154 Resp: 7968
Ion Ratio Lower Upper
154 100
153 116.3 91.1 136.7
152 60.6 48.2 72.2



#18
Fluorene
Concen: 0.179 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:166 Resp: 9508
Ion Ratio Lower Upper
166 100
165 100.7 78.7 118.1
167 13.5 10.9 16.3

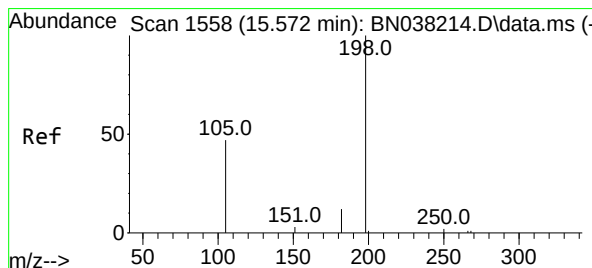
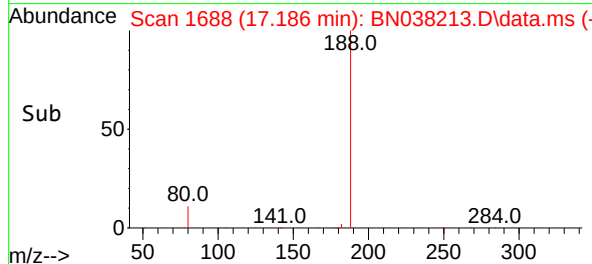
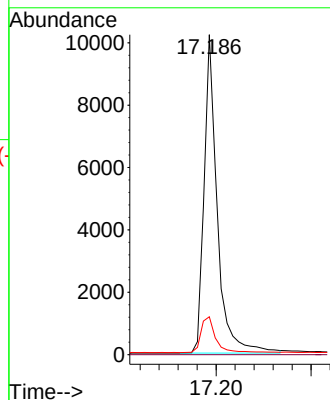
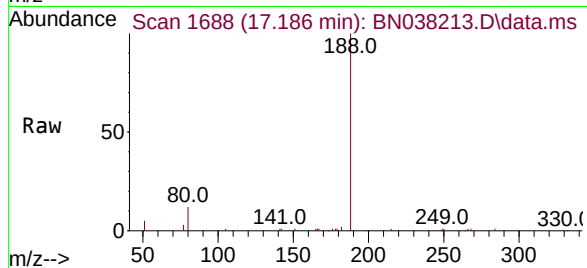




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

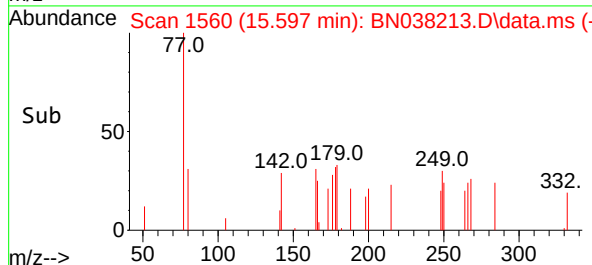
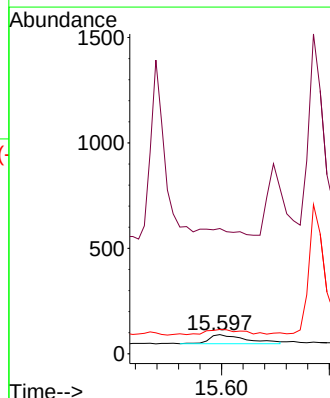
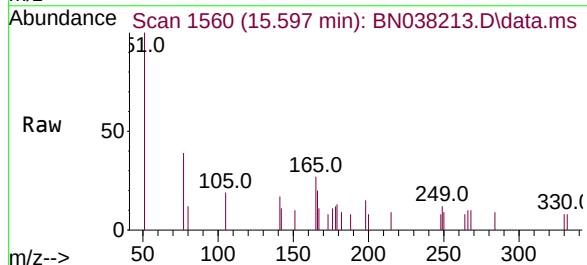
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

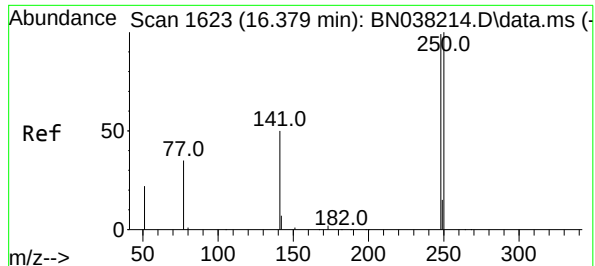
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	7.7	11.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.227 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.025 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion	Ratio	Lower	Upper
198	100		
51	652.7	205.1	307.7
105	126.4	61.6	92.4

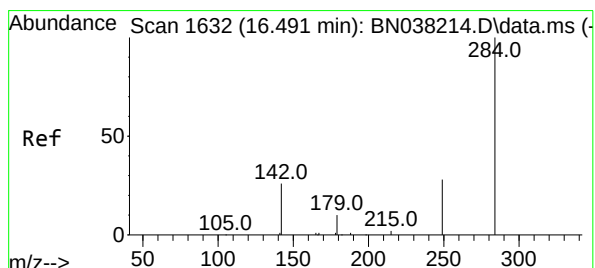
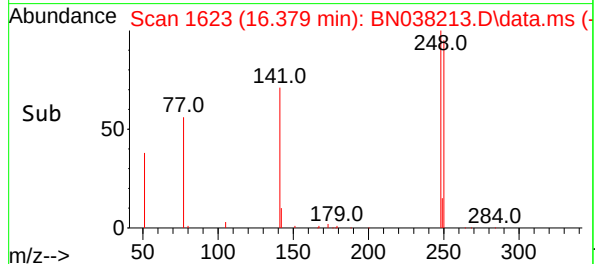
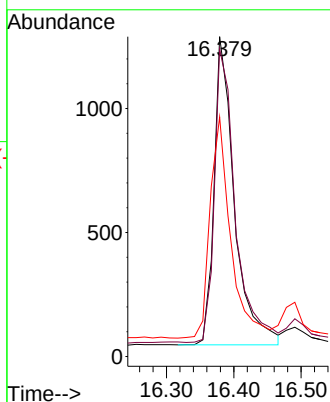
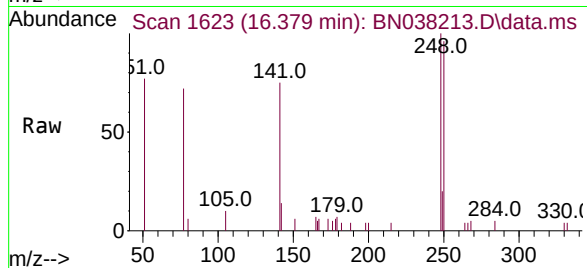




#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.379 min Scan# 1623
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

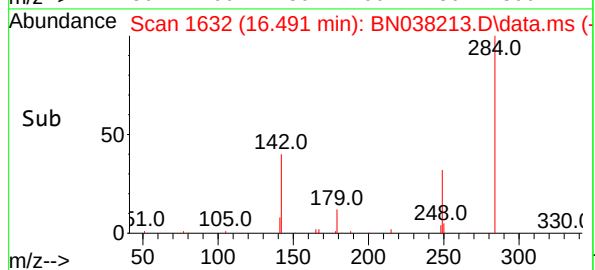
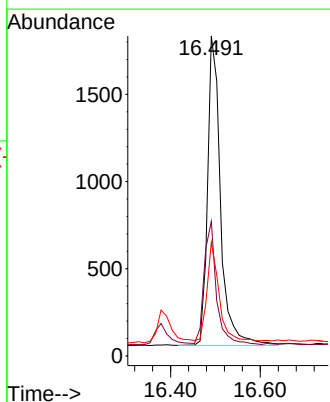
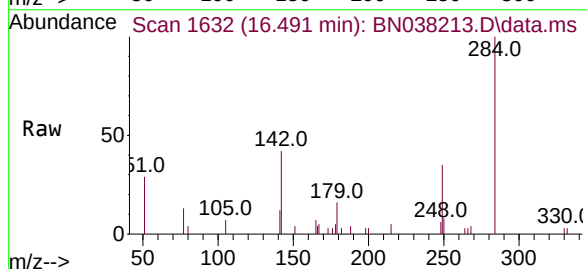
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

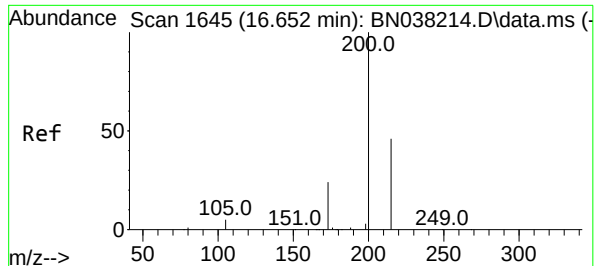
Tgt Ion:248 Resp: 2619
Ion Ratio Lower Upper
248 100
250 96.1 80.8 121.2
141 74.9 41.0 61.6#



#22
Hexachlorobenzene
Concen: 0.215 ng
RT: 16.491 min Scan# 1632
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:284 Resp: 3585
Ion Ratio Lower Upper
284 100
142 37.4 30.5 45.7
249 29.1 23.8 35.8

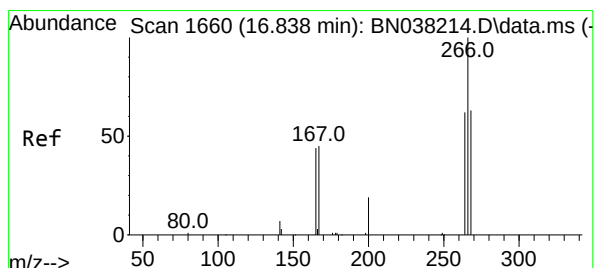
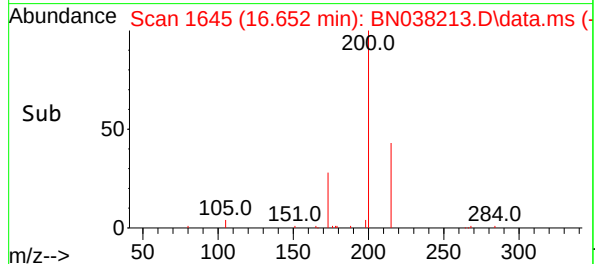
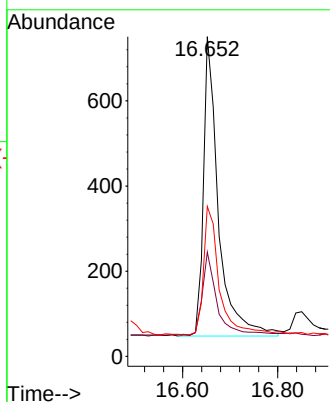
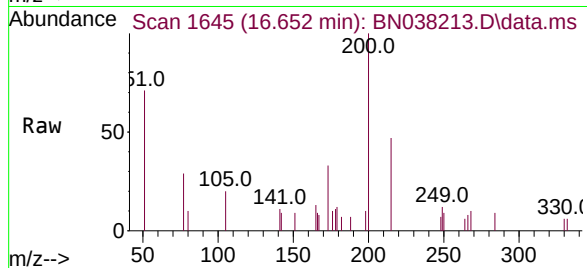




#23
Atrazine
Concen: 0.177 ng
RT: 16.652 min Scan# 1645
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

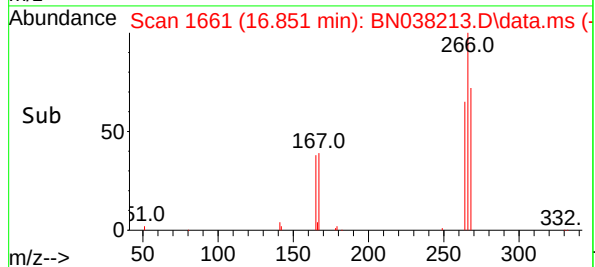
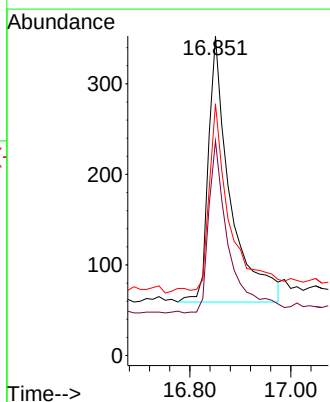
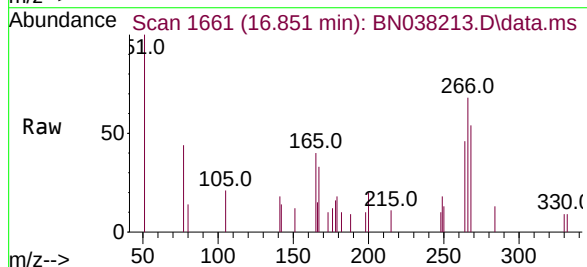
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

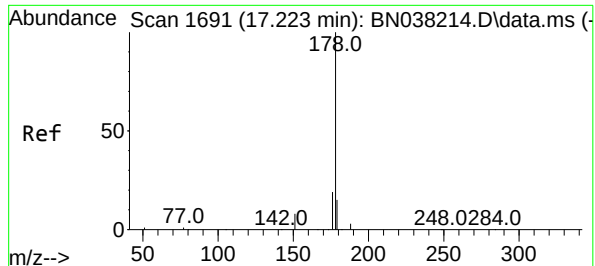
Tgt Ion	200	Resp:	1535
Ion Ratio	Lower	Upper	
200	100		
173	32.6	21.0	31.6#
215	46.9	37.8	56.8



#24
Pentachlorophenol
Concen: 0.193 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.013 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion	266	Resp:	882
Ion Ratio	Lower	Upper	
266	100		
264	60.1	48.9	73.3
268	70.3	50.2	75.2

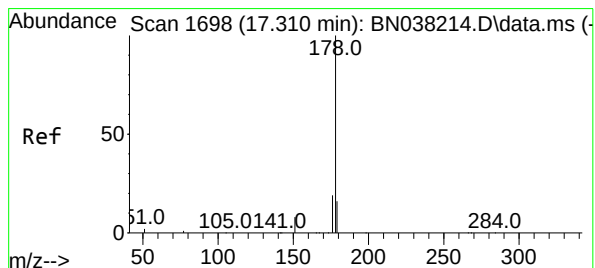
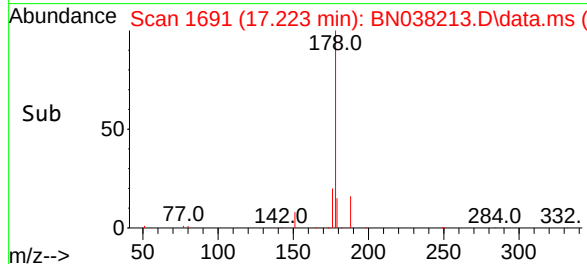
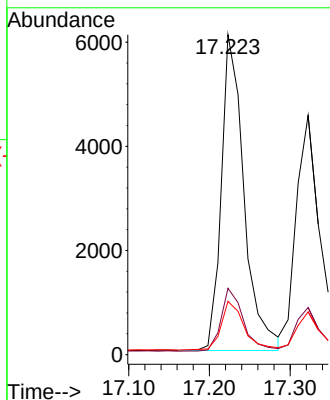
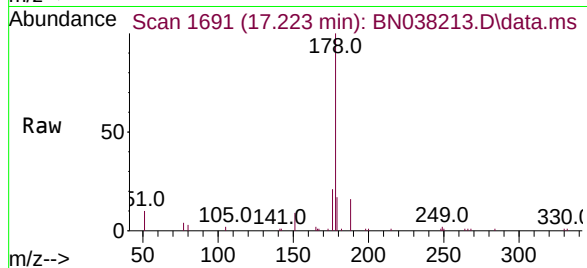




#25
Phenanthrene
Concen: 0.192 ng
RT: 17.223 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

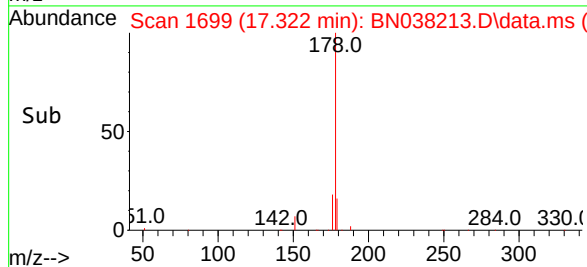
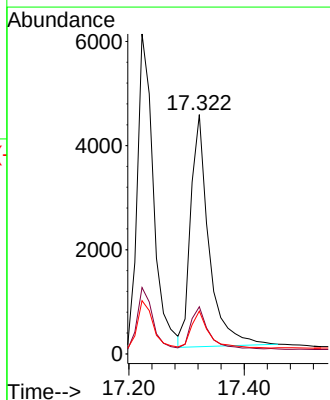
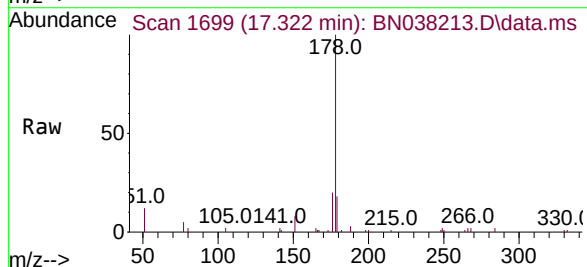
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

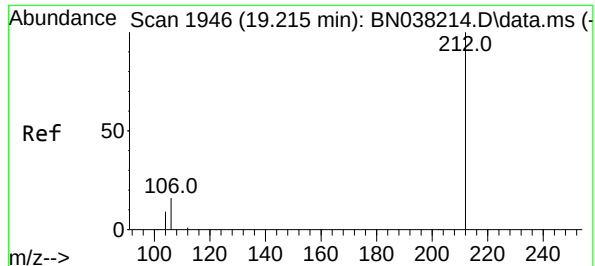
Tgt Ion:178 Resp: 11817
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 15.6 12.0 18.0



#26
Anthracene
Concen: 0.186 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:178 Resp: 9765
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.8 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.195 ng

RT: 19.220 min Scan# 1947

Delta R.T. 0.005 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

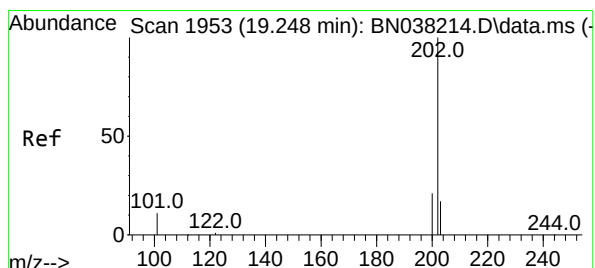
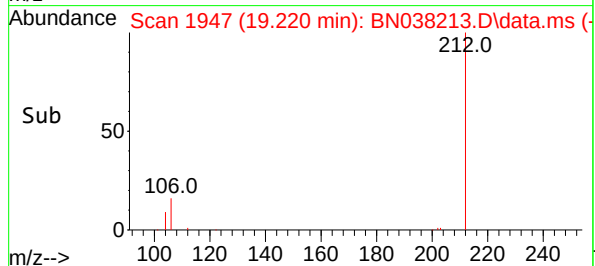
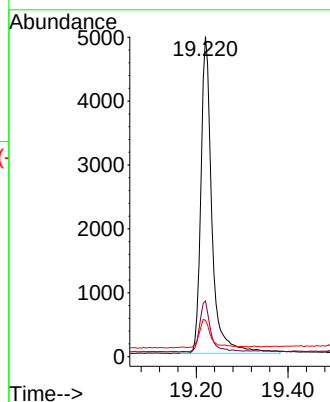
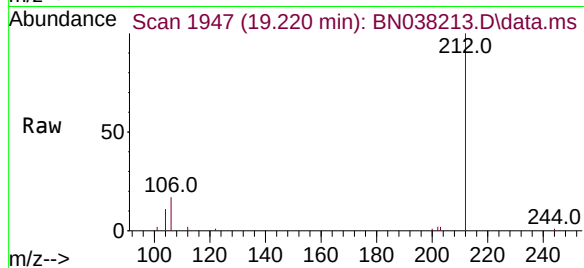
Tgt Ion:212 Resp: 8268

Ion Ratio Lower Upper

212 100

106 15.6 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.248 min Scan# 1953

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

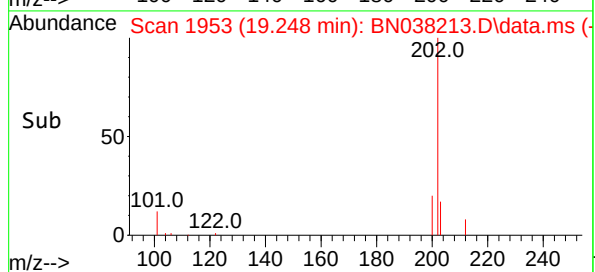
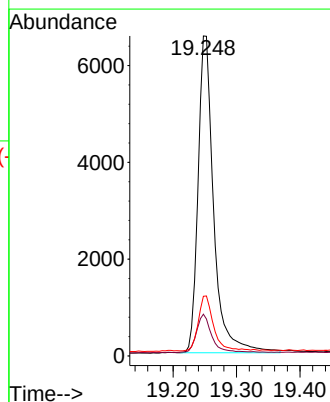
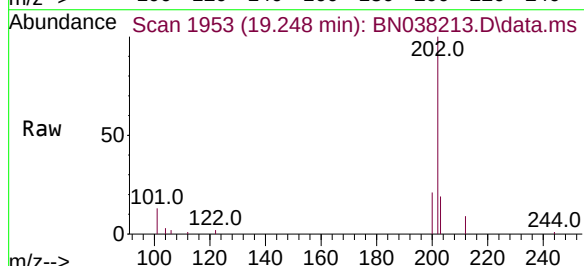
Tgt Ion:202 Resp: 11226

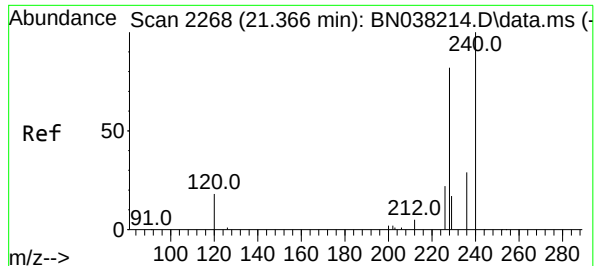
Ion Ratio Lower Upper

202 100

101 11.8 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

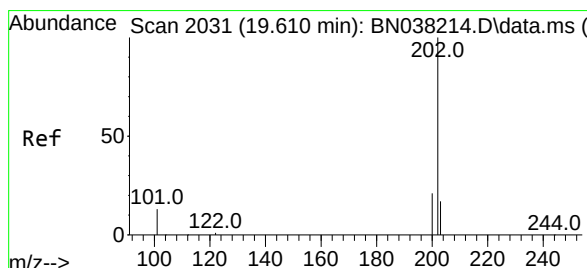
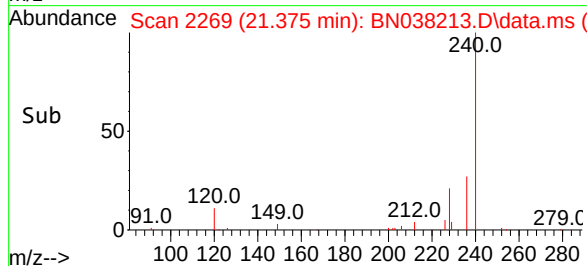
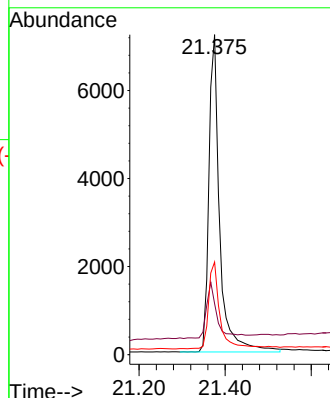
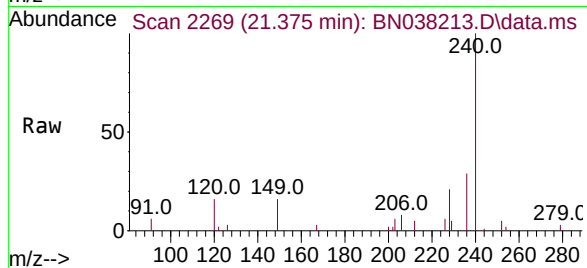
Tgt Ion:240 Resp: 12487

Ion Ratio Lower Upper

240 100

120 15.9 18.1 27.1#

236 28.9 24.2 36.4



#30

Pyrene

Concen: 0.181 ng

RT: 19.610 min Scan# 2031

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

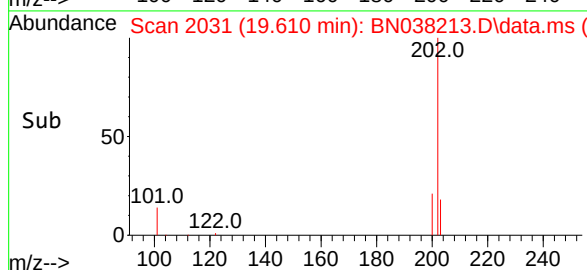
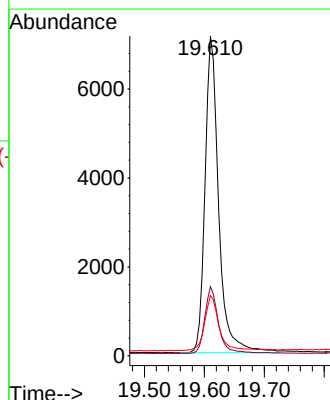
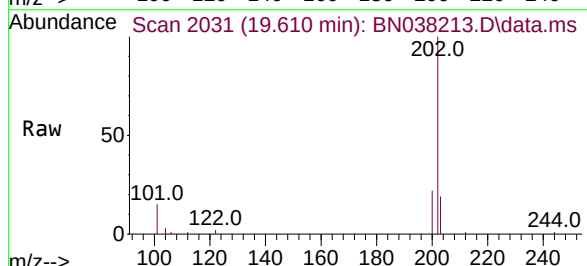
Tgt Ion:202 Resp: 11263

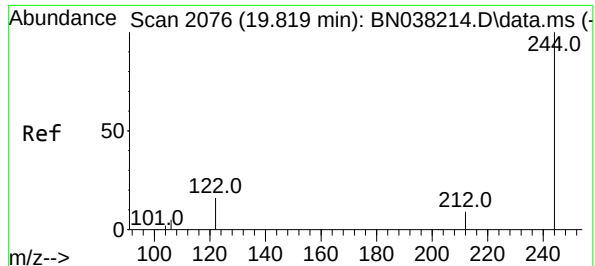
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 18.1 14.4 21.6

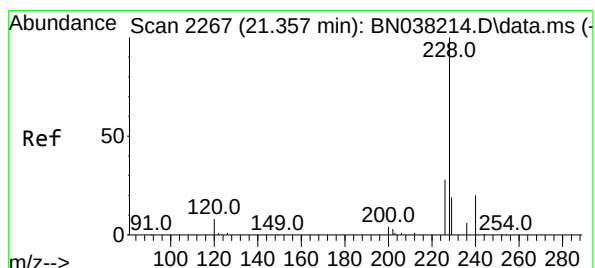
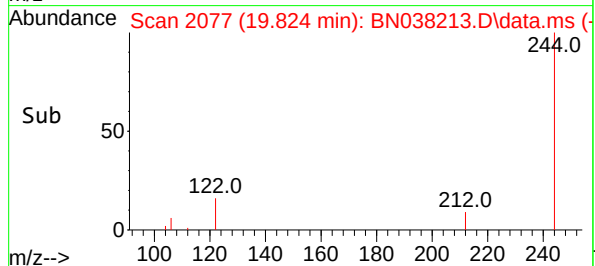
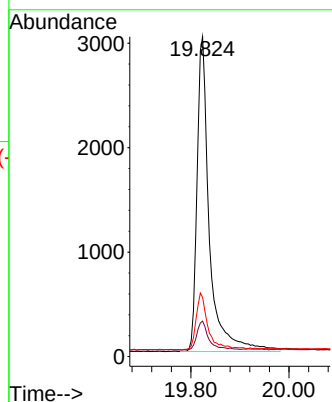
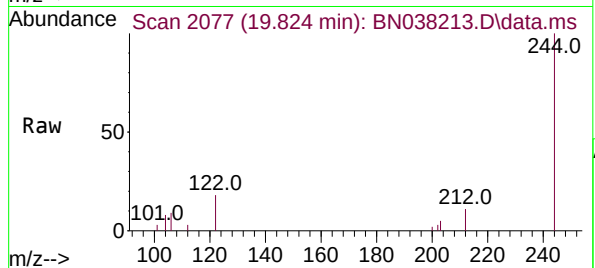




#31
Terphenyl-d14
Concen: 0.183 ng
RT: 19.824 min Scan# 2076
Delta R.T. 0.005 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

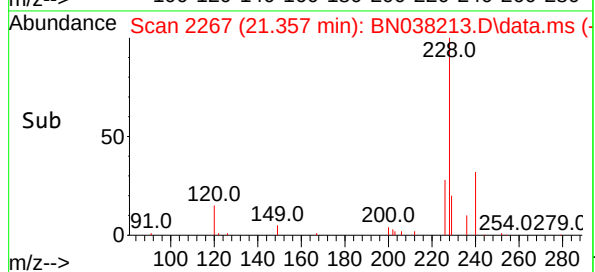
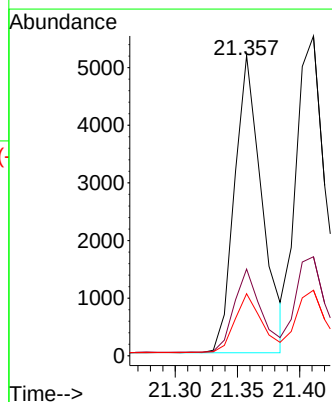
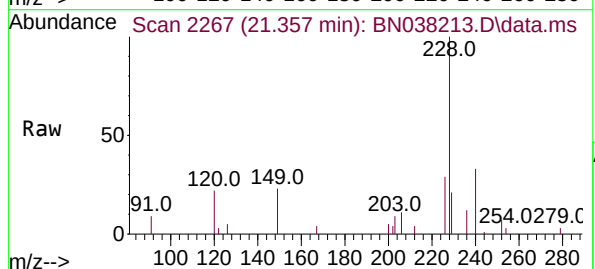
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

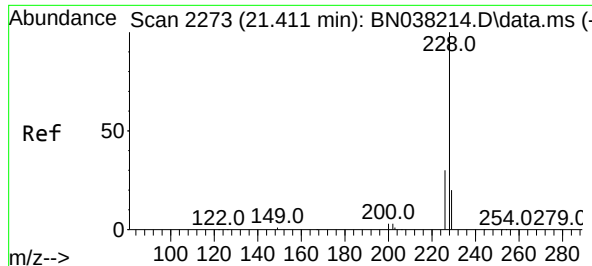
Tgt Ion:244 Resp: 5290
Ion Ratio Lower Upper
244 100
212 11.1 7.7 11.5
122 18.5 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.188 ng
RT: 21.357 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:228 Resp: 7938
Ion Ratio Lower Upper
228 100
226 28.9 22.6 33.8
229 20.7 15.8 23.8





#33

Chrysene

Concen: 0.205 ng

RT: 21.411 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

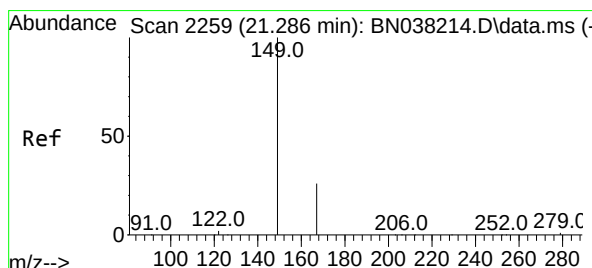
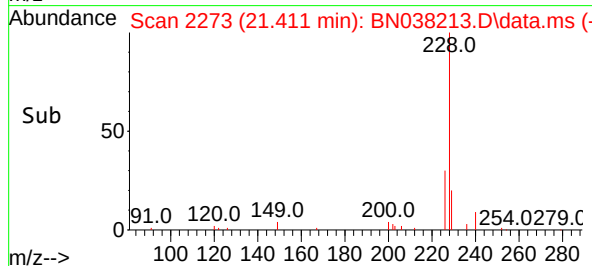
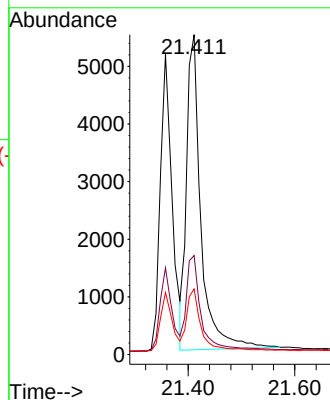
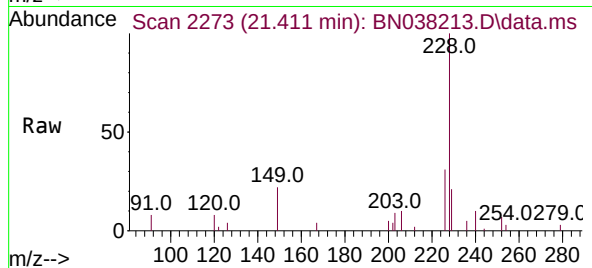
Tgt Ion:228 Resp: 10232

Ion Ratio Lower Upper

228 100

226 31.0 23.8 35.8

229 20.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.210 ng

RT: 21.286 min Scan# 2259

Delta R.T. -0.000 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

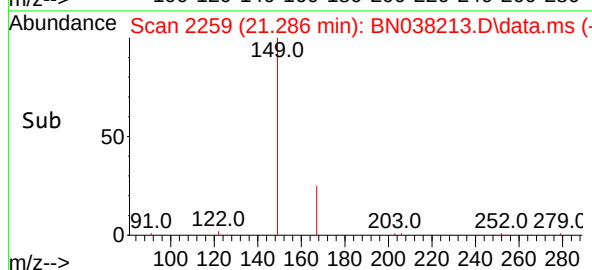
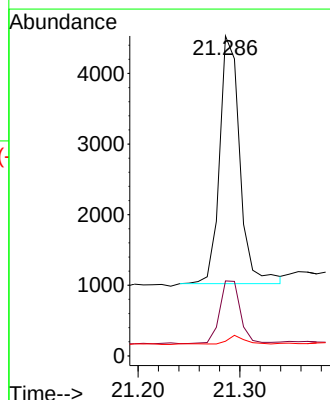
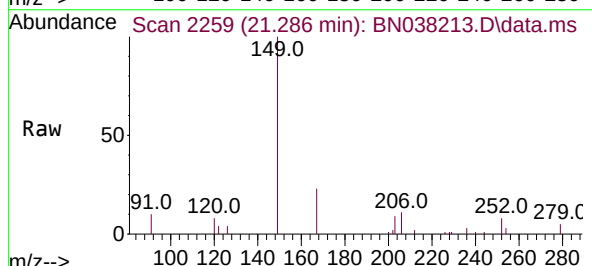
Tgt Ion:149 Resp: 4872

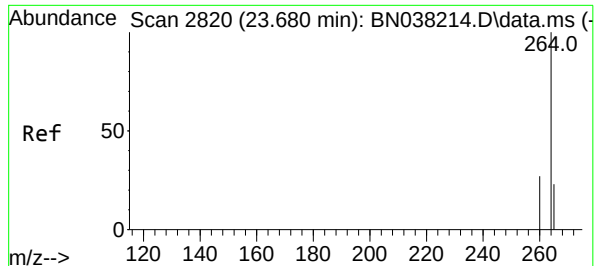
Ion Ratio Lower Upper

149 100

167 25.8 20.7 31.1

279 2.8 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. -0.000 min

Lab File: BN038213.D

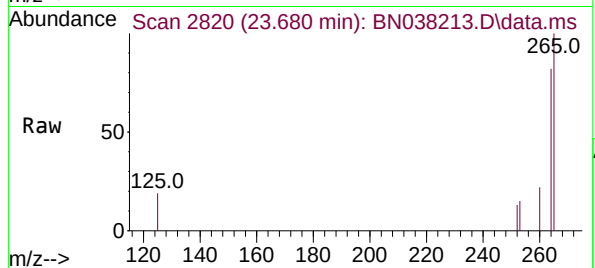
Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

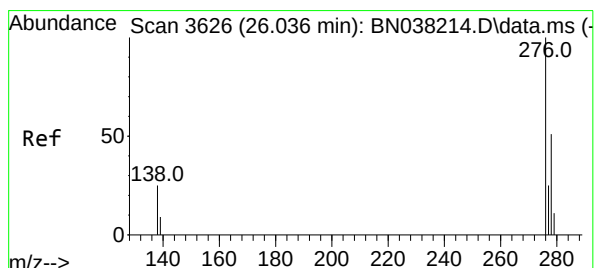
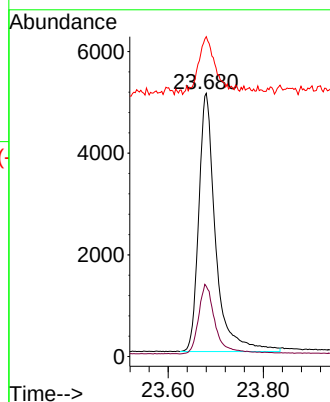
ClientSampleId :

SSTDICC0.2



Tgt Ion:264 Resp: 12455

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.7	32.5
265	121.6	98.0	147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.185 ng

RT: 26.039 min Scan# 3627

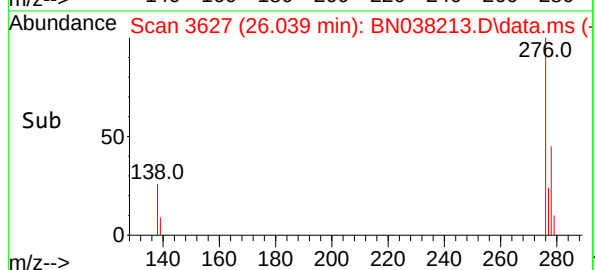
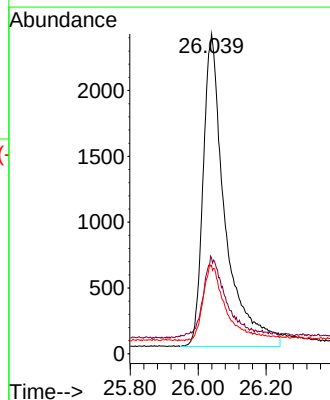
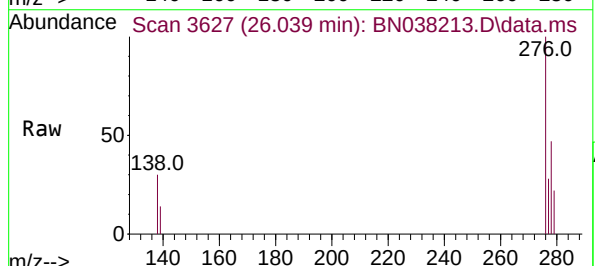
Delta R.T. 0.003 min

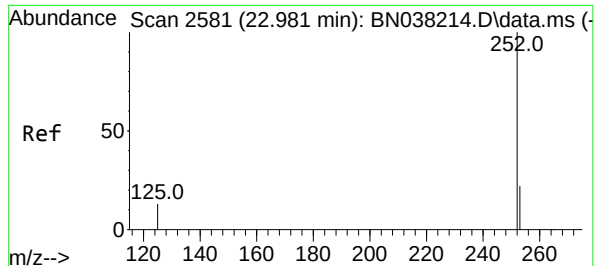
Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Tgt Ion:276 Resp: 10679

Ion	Ratio	Lower	Upper
276	100		
138	24.1	21.4	32.2
277	22.8	19.1	28.7





#37

Benzo(b)fluoranthene

Concen: 0.189 ng

RT: 22.984 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

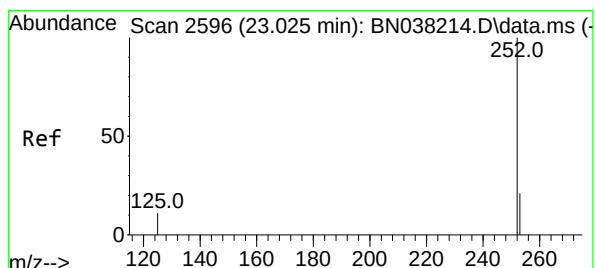
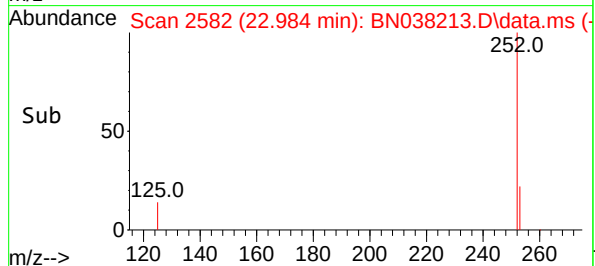
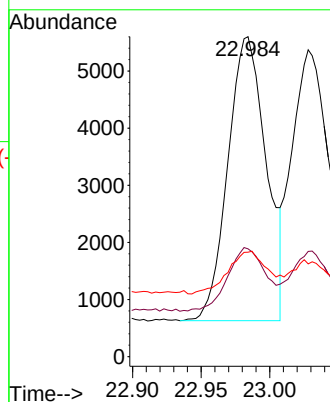
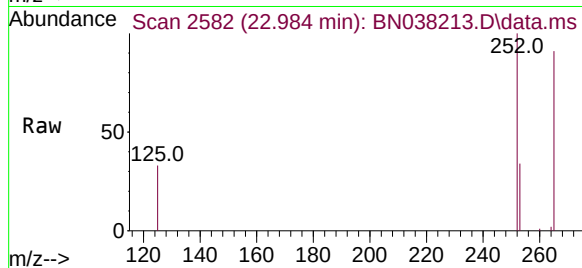
Tgt Ion:252 Resp: 9683

Ion Ratio Lower Upper

252 100

253 33.7 22.2 33.4#

125 32.6 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 0.192 ng

RT: 23.028 min Scan# 2597

Delta R.T. 0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

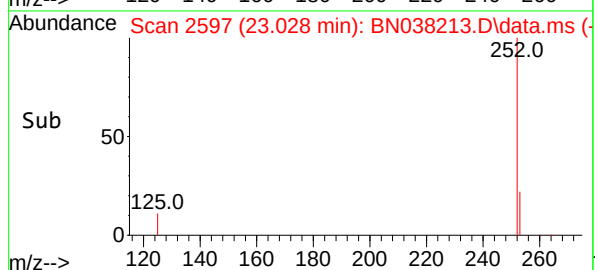
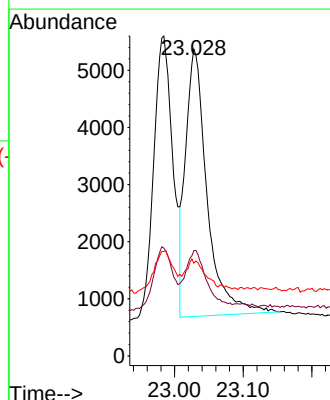
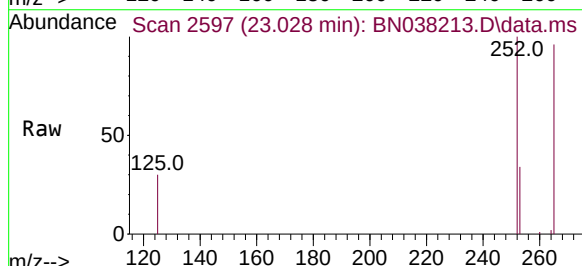
Tgt Ion:252 Resp: 10204

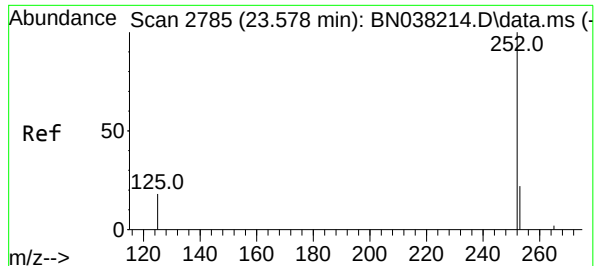
Ion Ratio Lower Upper

252 100

253 34.3 22.4 33.6#

125 30.2 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 0.187 ng

RT: 23.581 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN038213.D

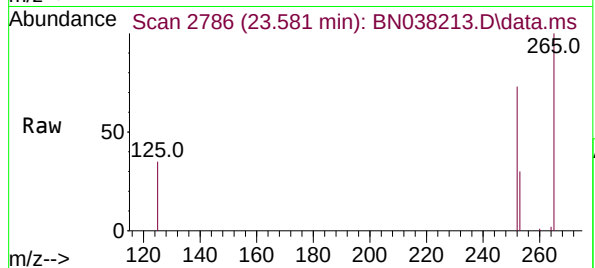
Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



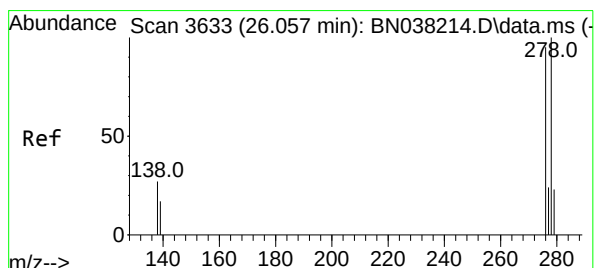
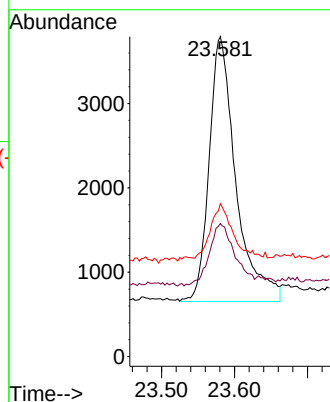
Tgt Ion:252 Resp: 7993

Ion Ratio Lower Upper

252 100

253 41.6 25.3 37.9#

125 47.8 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.176 ng

RT: 26.054 min Scan# 3632

Delta R.T. -0.003 min

Lab File: BN038213.D

Acq: 26 Nov 2025 21:12

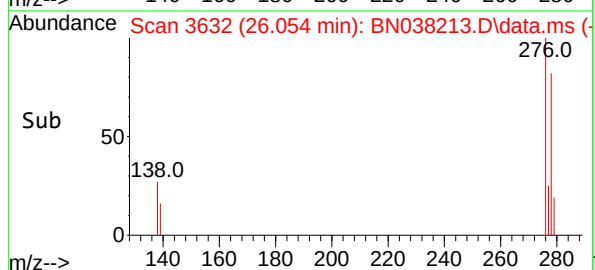
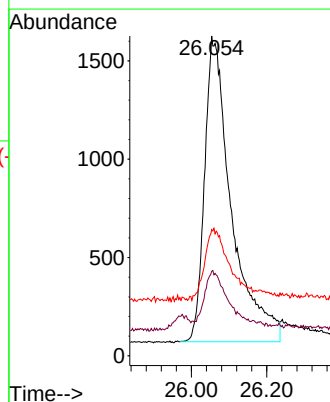
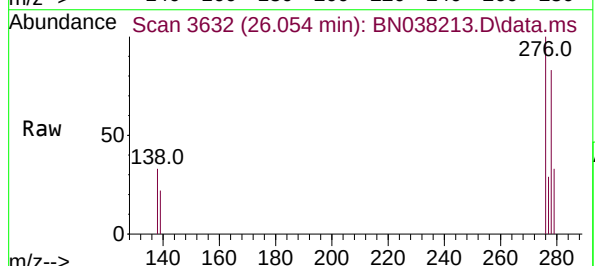
Tgt Ion:278 Resp: 7682

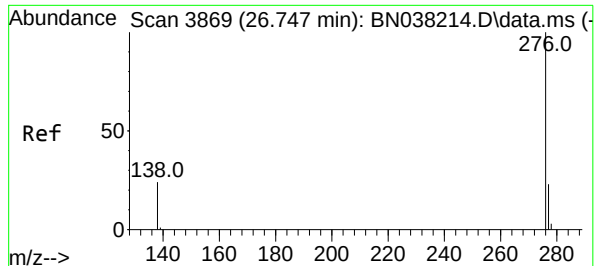
Ion Ratio Lower Upper

278 100

139 26.5 17.6 26.4#

279 39.5 24.2 36.4#





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.753 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN038213.D

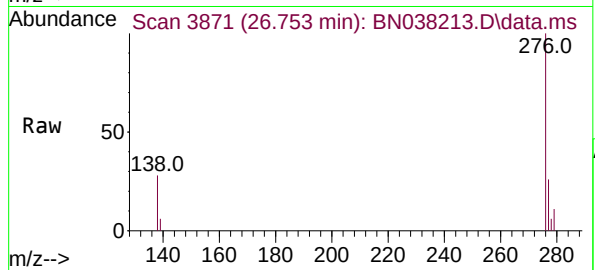
Acq: 26 Nov 2025 21:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



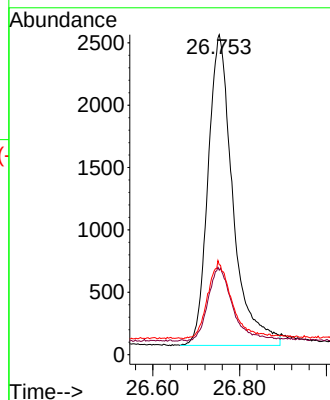
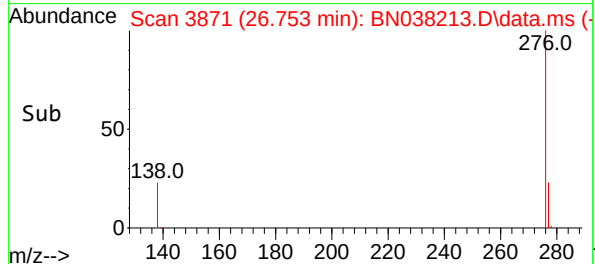
Tgt Ion:276 Resp: 9876

Ion Ratio Lower Upper

276 100

277 26.4 20.2 30.2

138 28.1 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038214.D
 Acq On : 26 Nov 2025 21:48
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

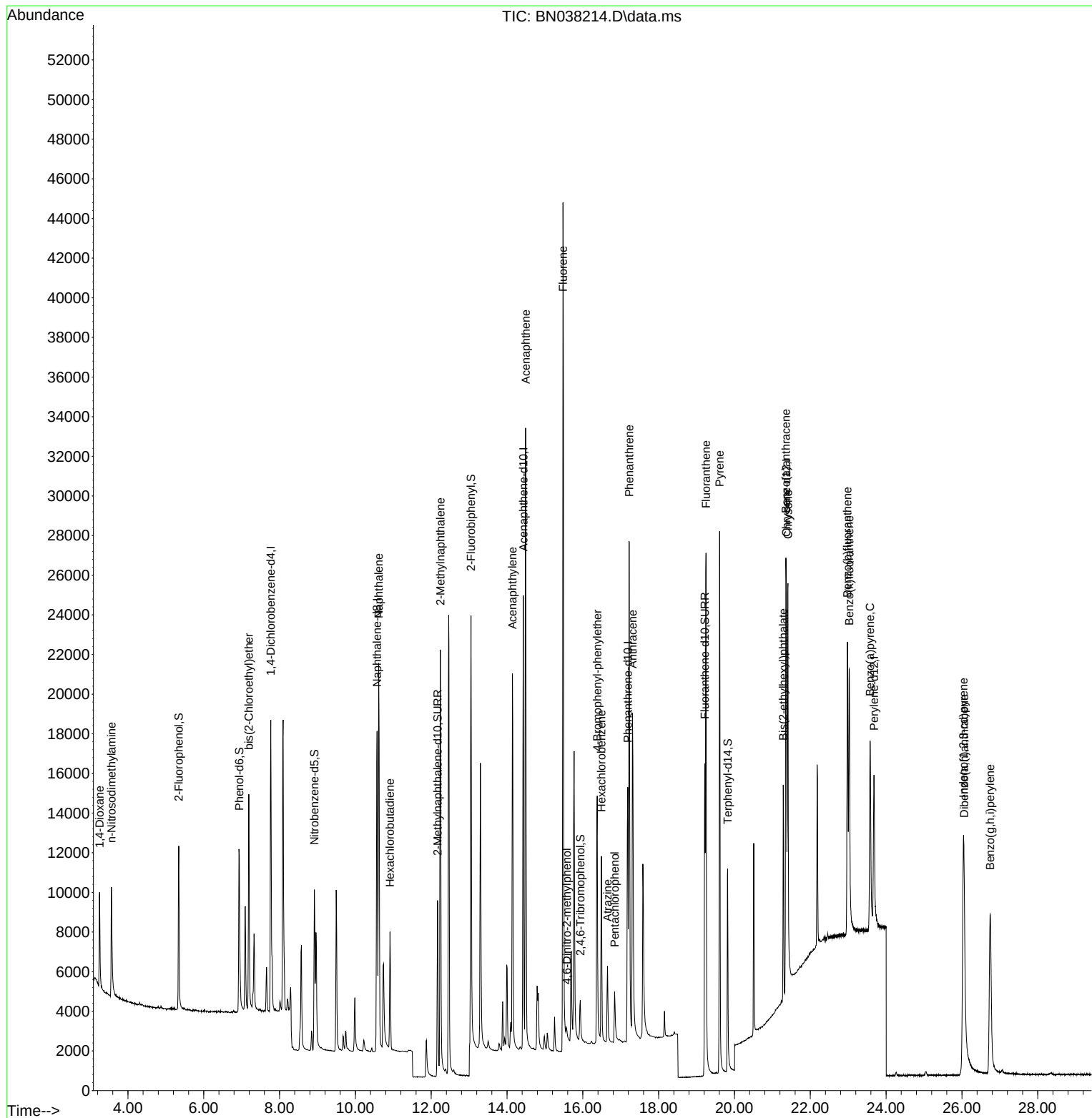
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	7469	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	23385	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	13235	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	21844	0.400	ng	0.00
29) Chrysene-d12	21.366	240	12804	0.400	ng	0.00
35) Perylene-d12	23.680	264	11960	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	7407	0.424	ng	0.00
5) Phenol-d6	6.937	99	9075	0.416	ng	0.00
8) Nitrobenzene-d5	8.918	82	7258	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	13752	0.414	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1634	0.392	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	21045	0.412	ng	0.00
27) Fluoranthene-d10	19.215	212	19448	0.410	ng	0.00
31) Terphenyl-d14	19.819	244	12317	0.417	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	3345	0.425	ng	99
3) n-Nitrosodimethylamine	3.564	42	4054	0.418	ng	99
6) bis(2-Chloroethyl)ether	7.190	93	8875	0.425	ng	100
9) Naphthalene	10.616	128	26973	0.415	ng	100
10) Hexachlorobutadiene	10.914	225	4678	0.424	ng	# 100
12) 2-Methylnaphthalene	12.243	142	17767	0.416	ng	100
16) Acenaphthylene	14.142	152	23834	0.403	ng	100
17) Acenaphthene	14.494	154	17100	0.414	ng	100
18) Fluorene	15.478	166	21837	0.409	ng	100
20) 4,6-Dinitro-2-methylph...	15.572	198	568	0.399	ng	100
21) 4-Bromophenyl-phenylether	16.379	248	6223	0.411	ng	100
22) Hexachlorobenzene	16.491	284	7821	0.420	ng	100
23) Atrazine	16.652	200	3821	0.395	ng	100
24) Pentachlorophenol	16.838	266	1841	0.361	ng	100
25) Phenanthrene	17.223	178	28648	0.418	ng	100
26) Anthracene	17.310	178	23328	0.399	ng	100
28) Fluoranthene	19.248	202	26807	0.406	ng	100
30) Pyrene	19.610	202	26725	0.418	ng	100
32) Benzo(a)anthracene	21.357	228	17510	0.404	ng	100
33) Chrysene	21.411	228	21267	0.416	ng	100
34) Bis(2-ethylhexyl)phtha...	21.286	149	10262	0.432	ng	100
36) Indeno(1,2,3-cd)pyrene	26.036	276	22427	0.405	ng	100
37) Benzo(b)fluoranthene	22.981	252	20366	0.415	ng	100
38) Benzo(k)fluoranthene	23.025	252	21024	0.412	ng	100
39) Benzo(a)pyrene	23.578	252	16572	0.403	ng	100
40) Dibenzo(a,h)anthracene	26.057	278	16493	0.394	ng	100
41) Benzo(g,h,i)perylene	26.747	276	20578	0.413	ng	100

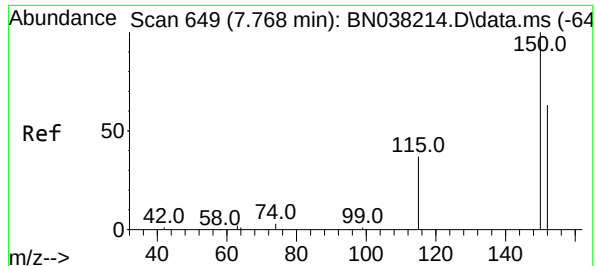
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038214.D
Acq On : 26 Nov 2025 21:48
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

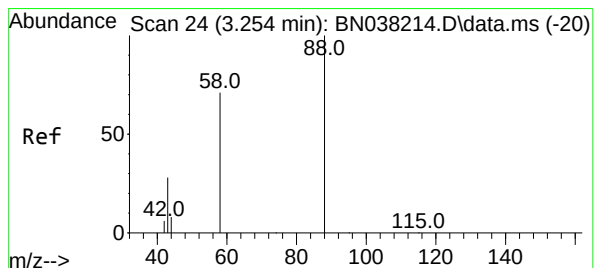
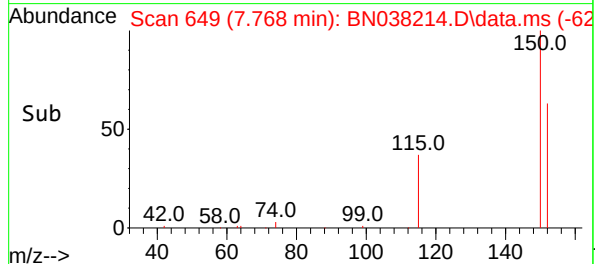
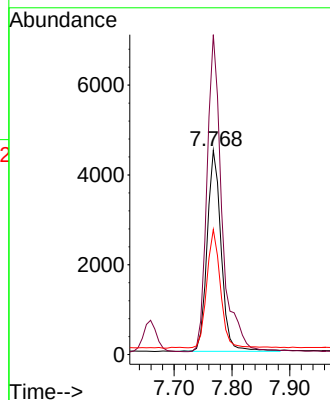
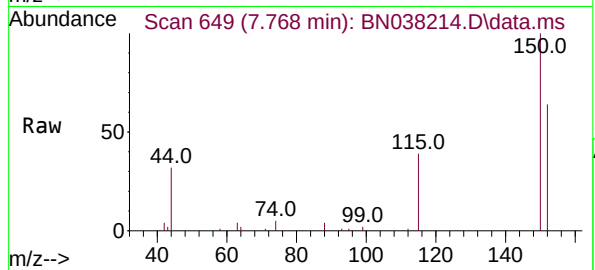




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

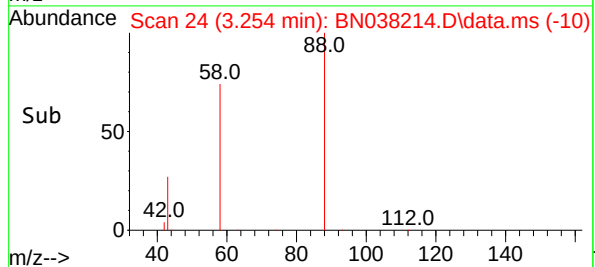
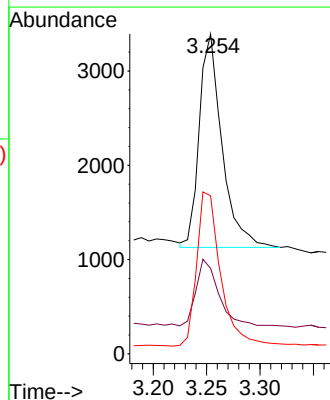
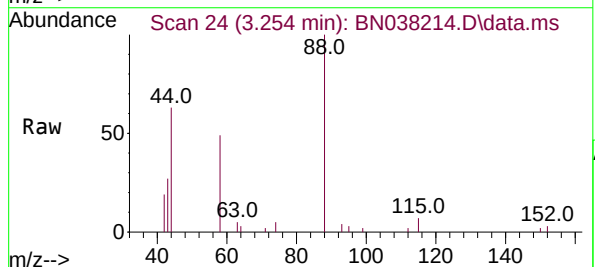
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

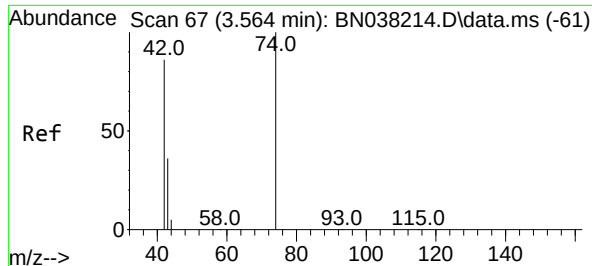
Tgt Ion:152 Resp: 7469
Ion Ratio Lower Upper
152 100
150 156.6 125.3 187.9
115 61.2 49.0 73.4



#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion: 88 Resp: 3345
Ion Ratio Lower Upper
88 100
43 32.0 24.8 37.2
58 76.7 61.1 91.7

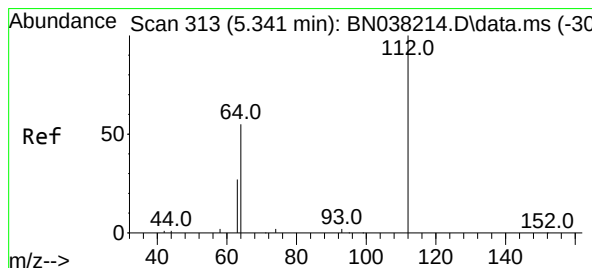
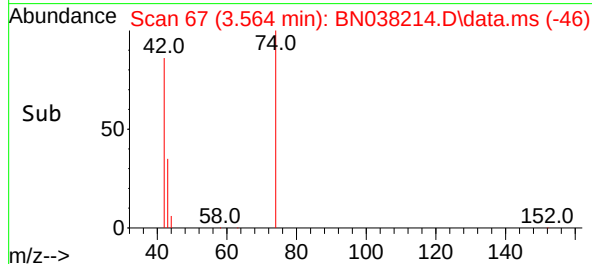
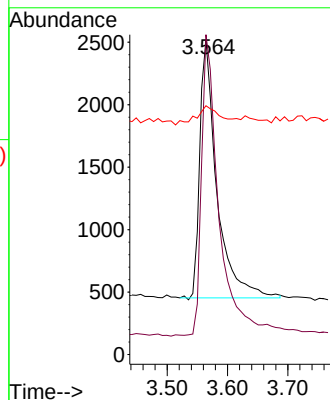
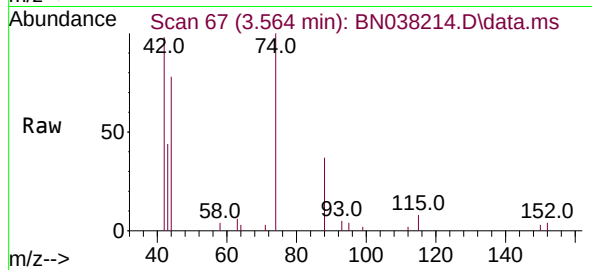




#3
n-Nitrosodimethylamine
Concen: 0.418 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

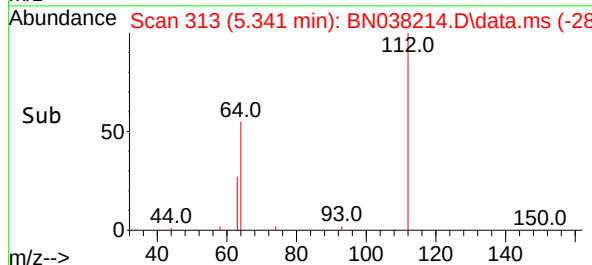
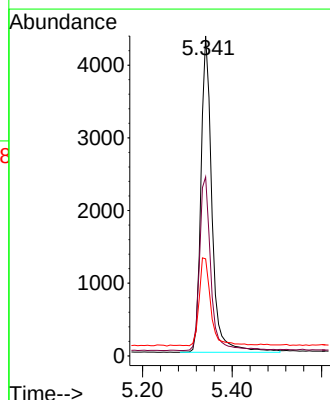
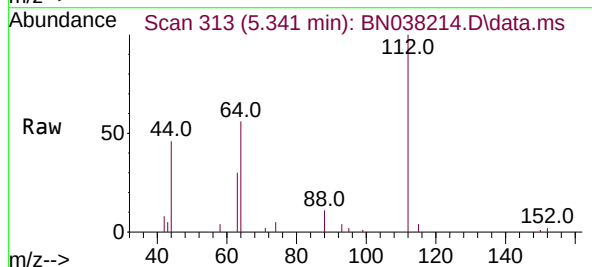
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

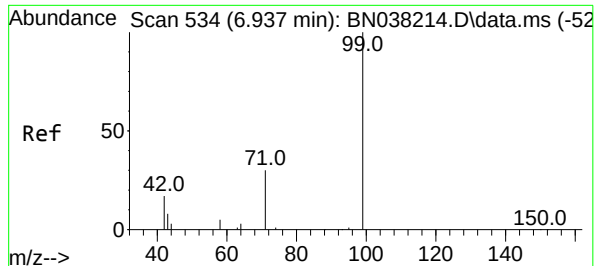
Tgt Ion: 42 Resp: 4054
Ion Ratio Lower Upper
42 100
74 121.0 96.2 144.2
44 10.0 8.0 12.0



#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion: 112 Resp: 7407
Ion Ratio Lower Upper
112 100
64 56.2 45.0 67.4
63 29.0 23.2 34.8

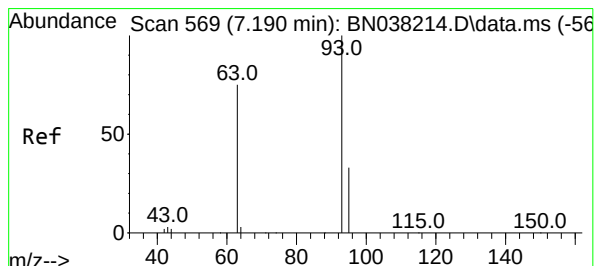
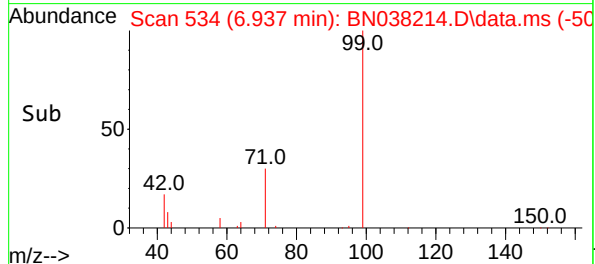
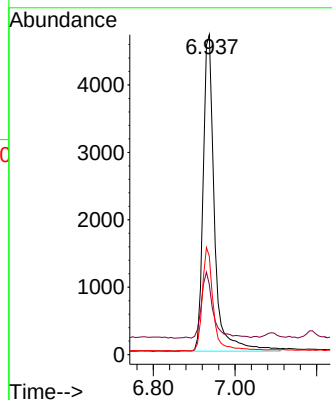
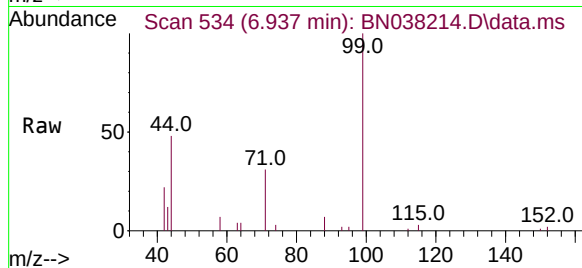




#5
Phenol-d6
Concen: 0.416 ng
RT: 6.937 min Scan# 534
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

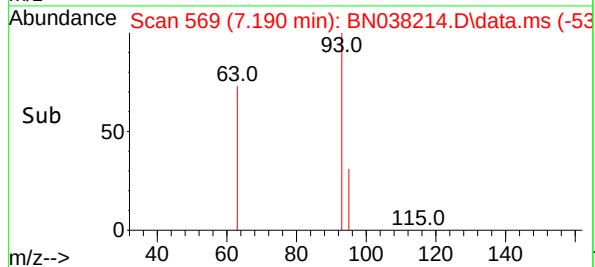
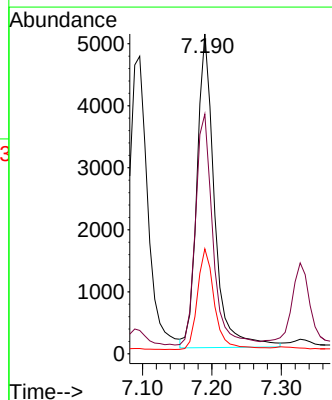
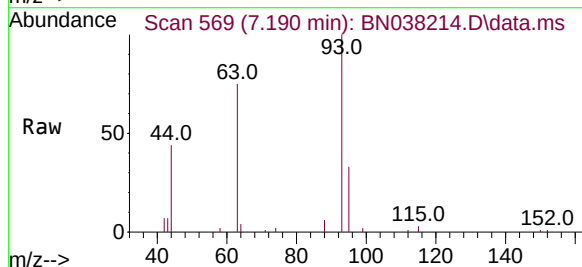
Instrument :
BNA_N
ClientSampleId :
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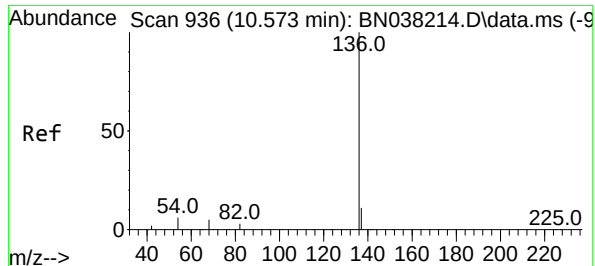
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.0	25.6
71	31.7	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.425 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	72.6	58.1	87.1
95	31.4	25.1	37.7

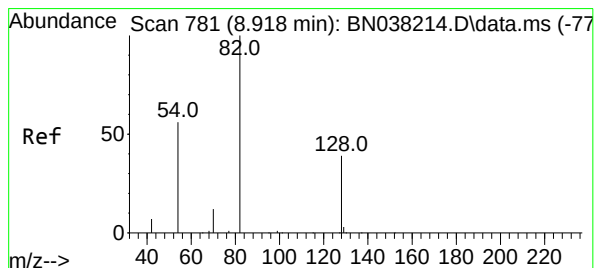
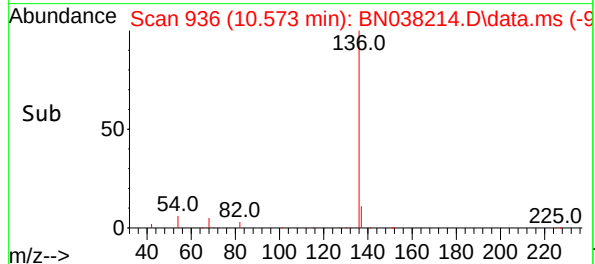
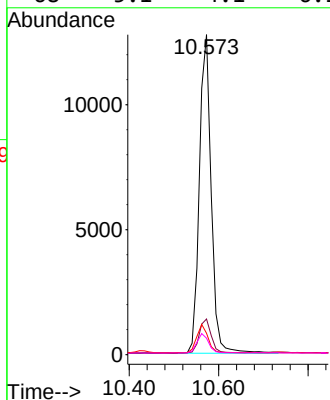
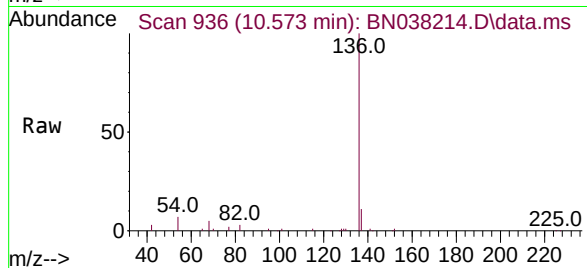




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

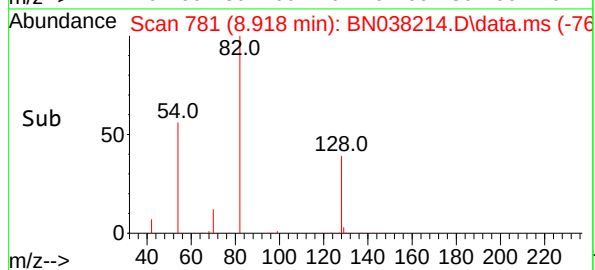
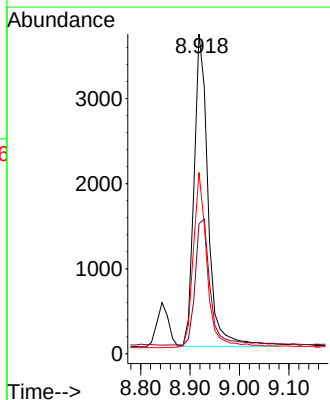
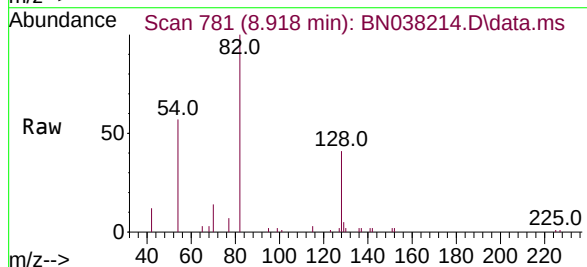
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

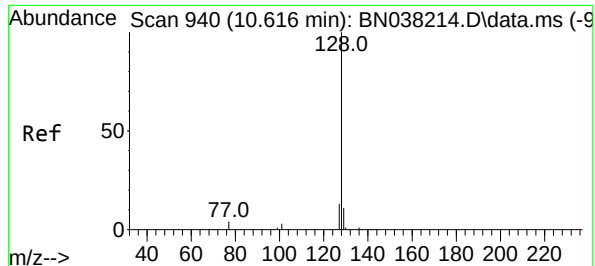
Tgt Ion:	136	Resp:	23385
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.9	13.3
54	6.7	5.4	8.0
68	5.1	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:	82	Resp:	7258
Ion Ratio	Lower	Upper	
82	100		
128	40.7	32.6	48.8
54	56.7	45.4	68.0

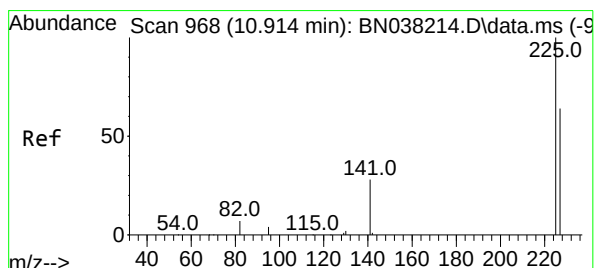
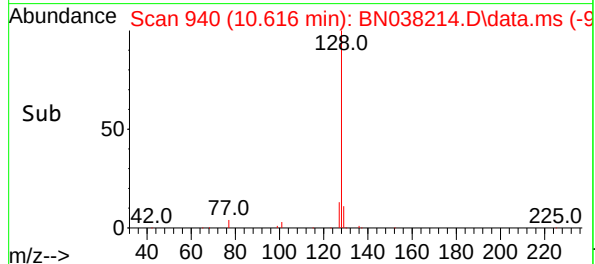
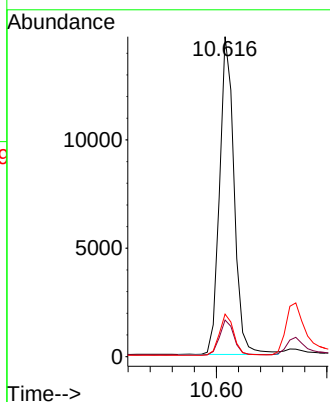
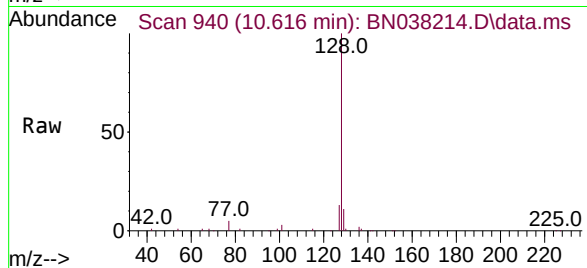




#9
Naphthalene
Concen: 0.415 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

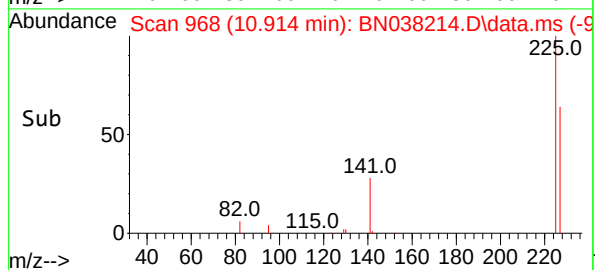
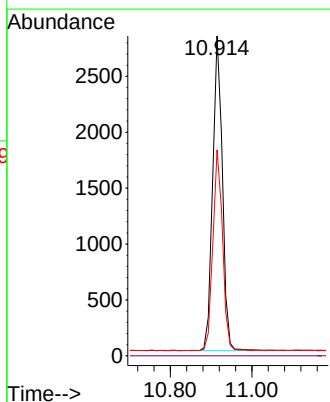
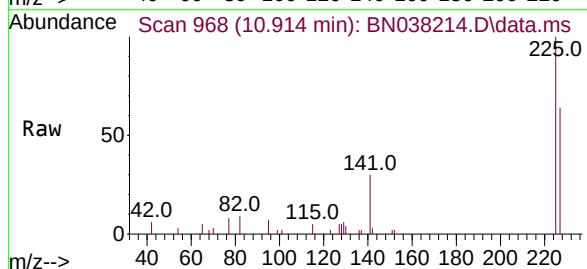
Instrument :
BNA_N
ClientSampleId :
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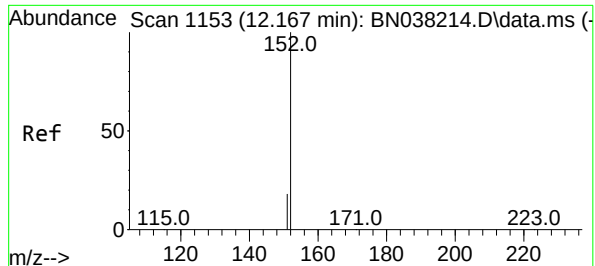
Tgt Ion	128	129	127
Resp:	26973		
Ion Ratio	100	11.4	13.3
Lower		9.1	10.6
Upper		13.7	16.0



#10
Hexachlorobutadiene
Concen: 0.424 ng
RT: 10.914 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	225	223	227
Resp:	4678		
Ion Ratio	100	0.0	63.1
Lower		0.0	50.5
Upper		0.0	75.7

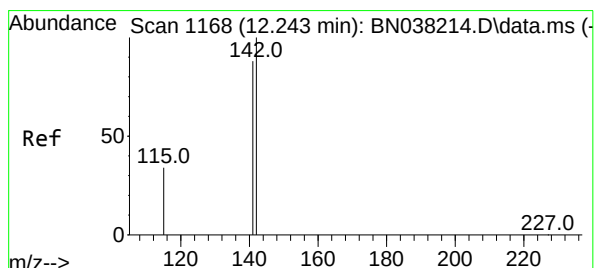
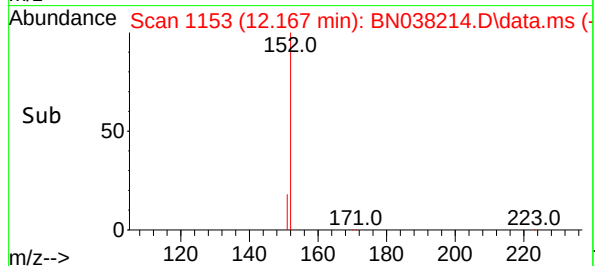
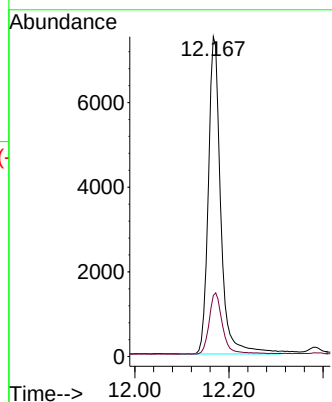
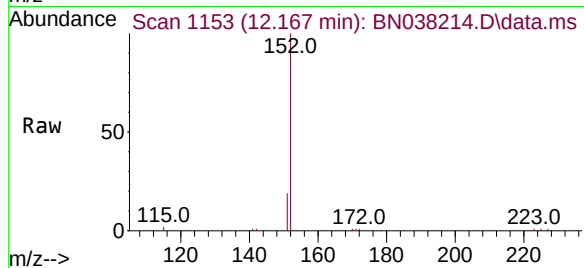




#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

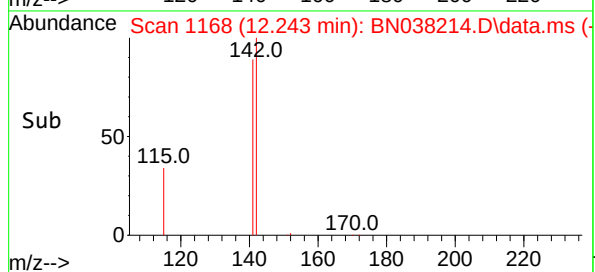
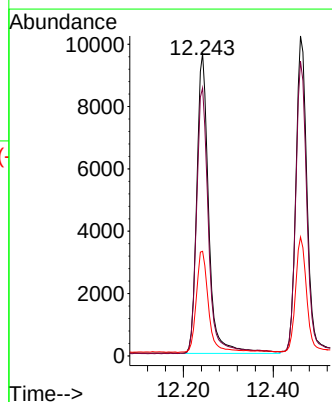
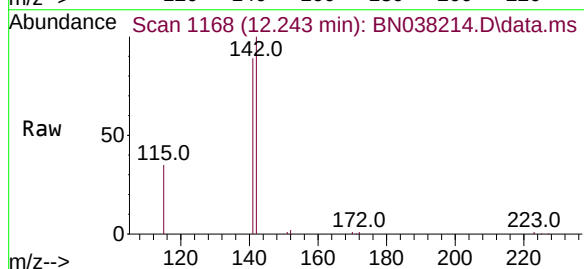
Instrument :
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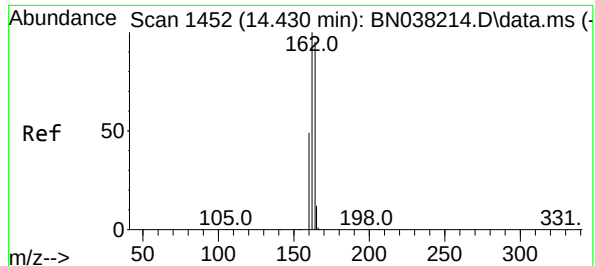
Tgt Ion:152 Resp: 13752
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.416 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:142 Resp: 17767
Ion Ratio Lower Upper
142 100
141 88.6 70.9 106.3
115 34.6 27.7 41.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.430 min Scan# 1452

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

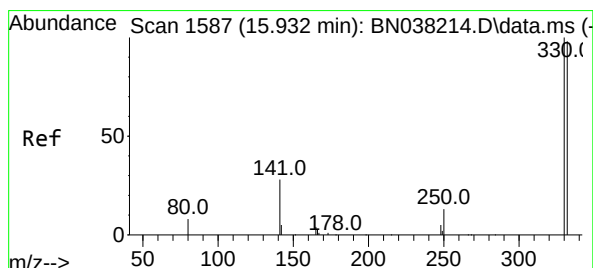
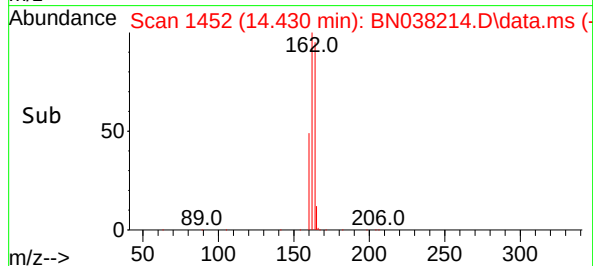
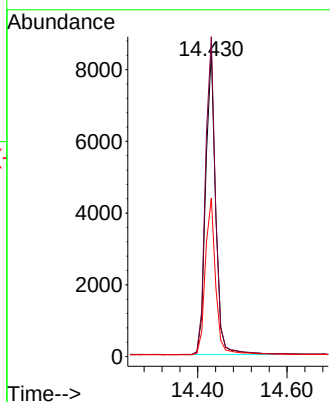
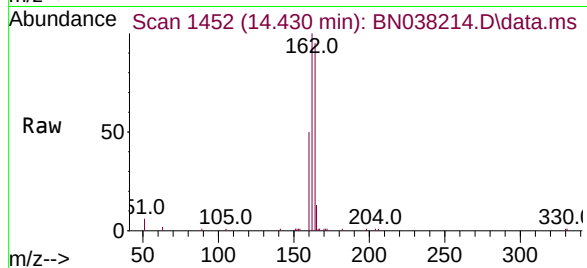
Tgt Ion:164 Resp: 13235

Ion	Ratio	Lower	Upper

164	100		

162	104.8	83.8	125.8

160	52.0	41.6	62.4



#14

2,4,6-Tribromophenol

Concen: 0.392 ng

RT: 15.932 min Scan# 1587

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

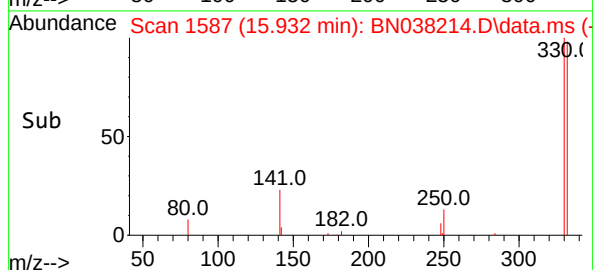
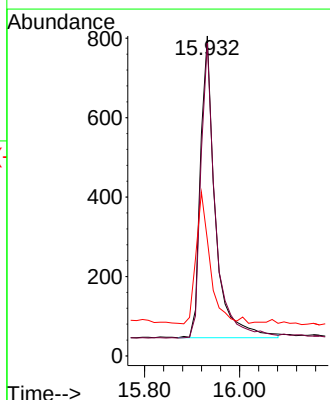
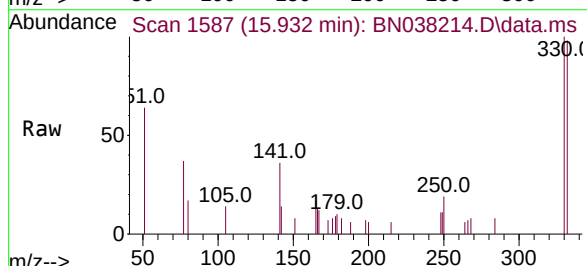
Tgt Ion:330 Resp: 1634

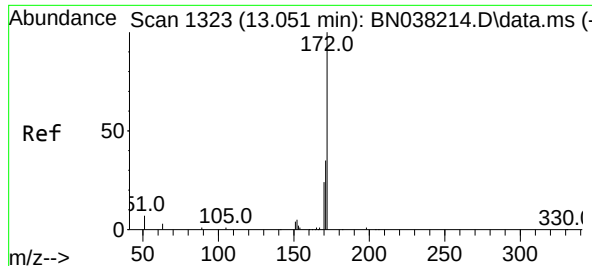
Ion	Ratio	Lower	Upper

330	100		

332	97.2	77.8	116.6

141	41.2	33.0	49.4

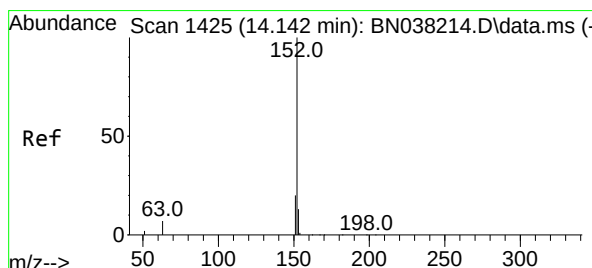
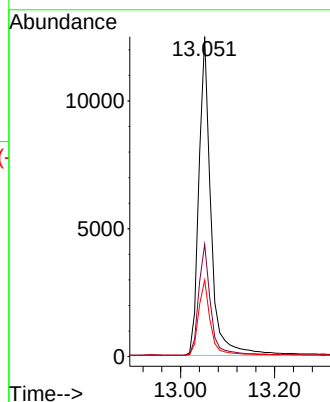
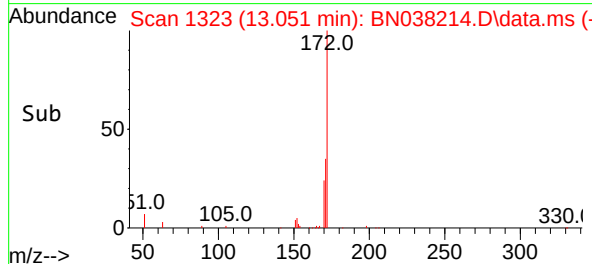
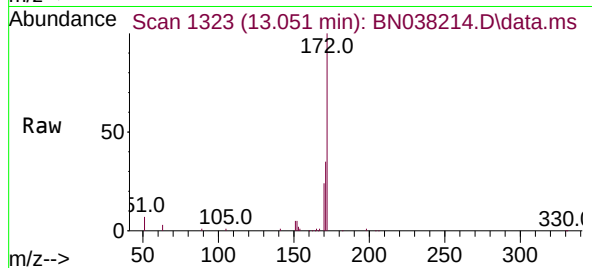




#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

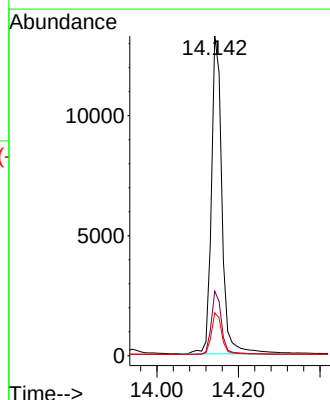
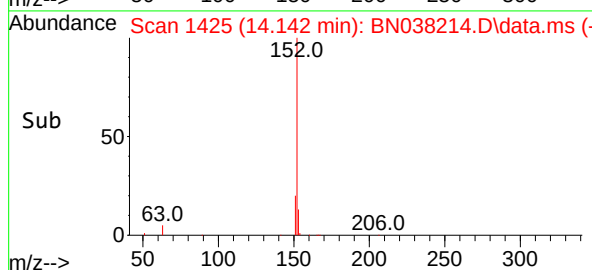
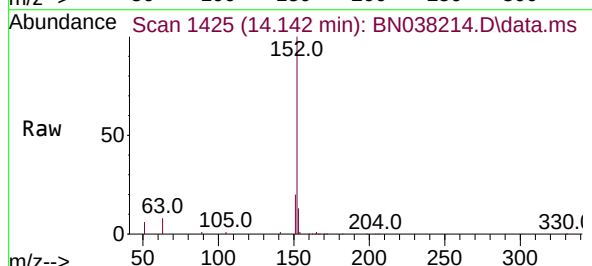
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

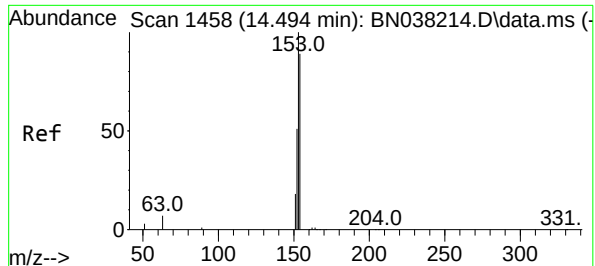
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.9	19.1	28.7



#16
Acenaphthylene
Concen: 0.403 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.2	10.6	15.8

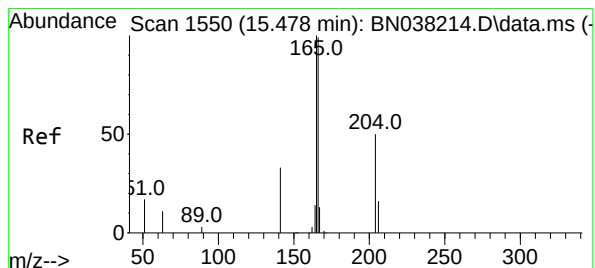
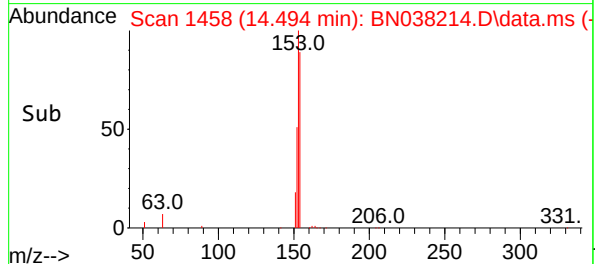
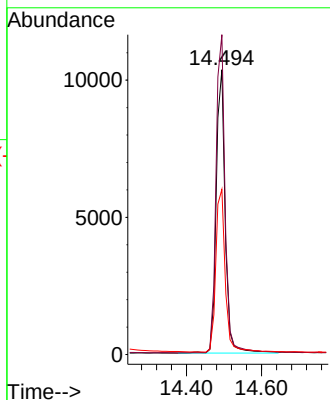
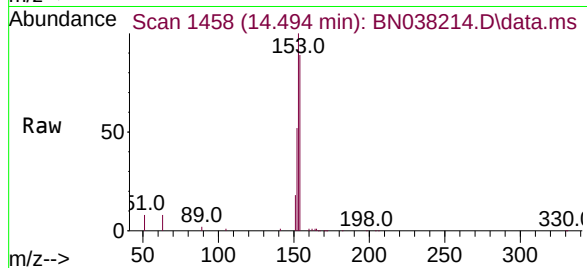




#17
Acenaphthene
Concen: 0.414 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

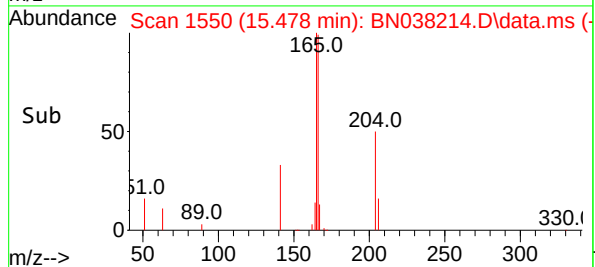
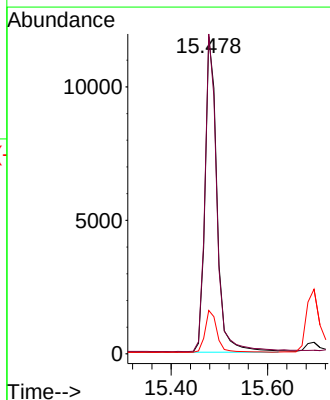
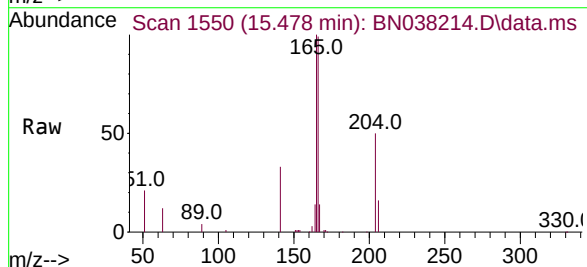
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

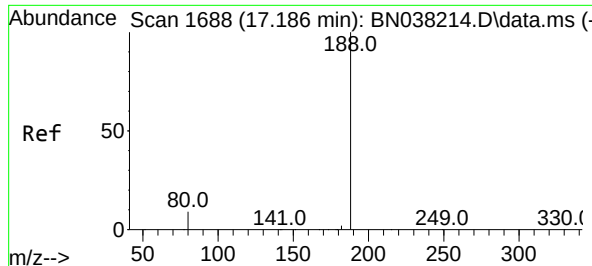
Tgt Ion	154	153	152	Resp	17100
Ion Ratio	100	113.9	60.2	Lower	Upper
		91.1	48.2		



#18
Fluorene
Concen: 0.409 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	166	165	167	Resp	21837
Ion Ratio	100	98.4	13.6	Lower	Upper
		78.7	10.9		

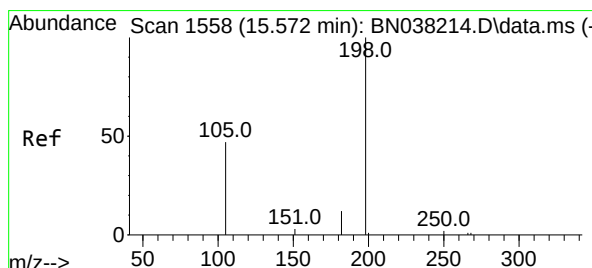
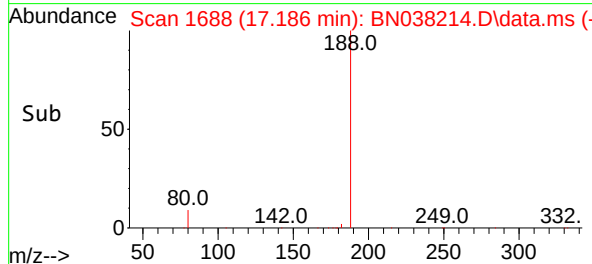
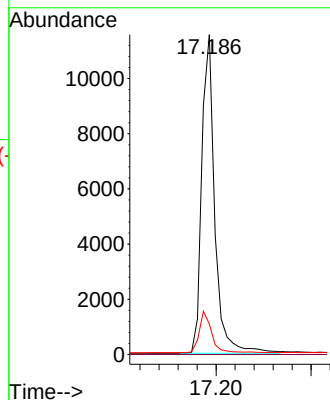
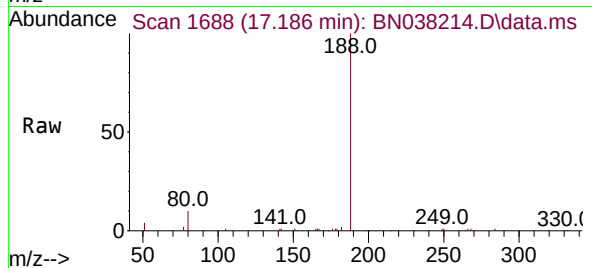




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

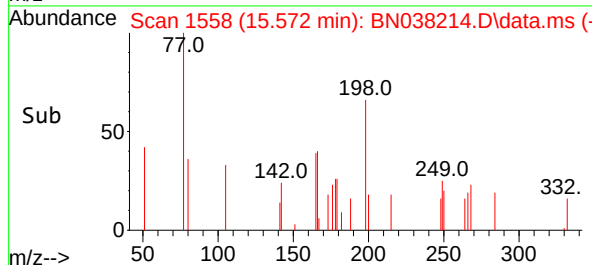
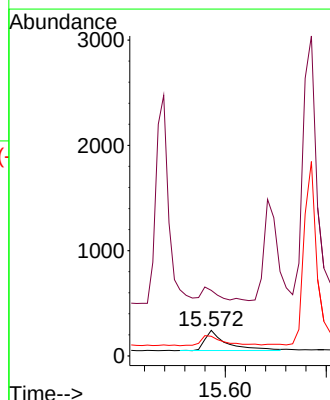
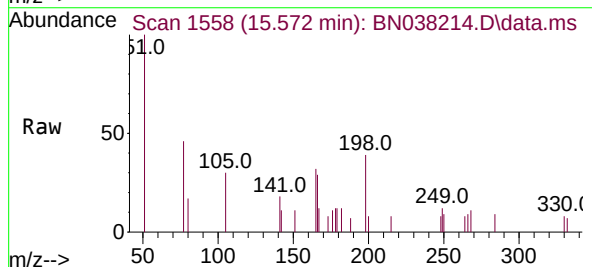
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

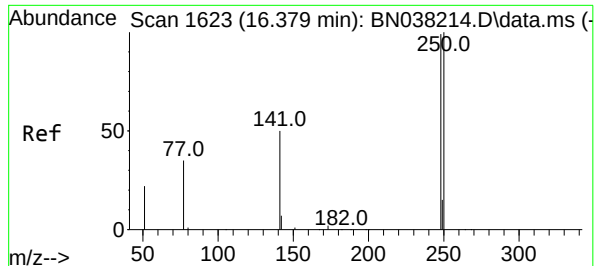
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	7.7	11.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.399 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	Ratio	Lower	Upper
198	100		
51	256.4	205.1	307.7
105	77.0	61.6	92.4

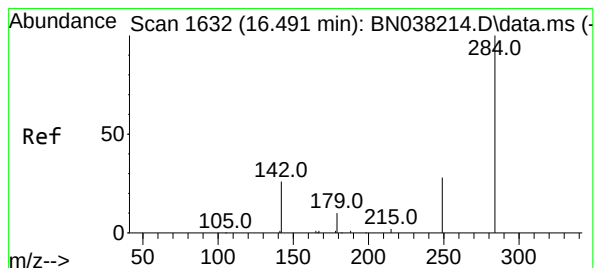
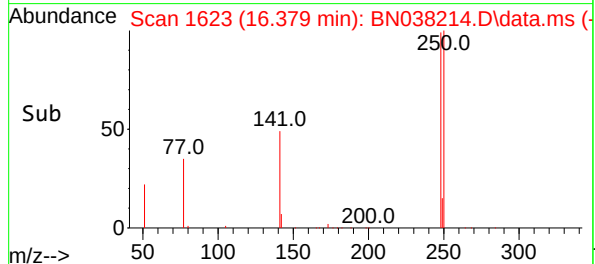
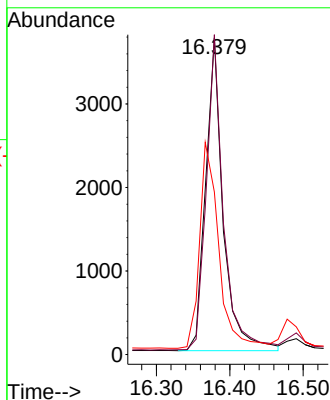
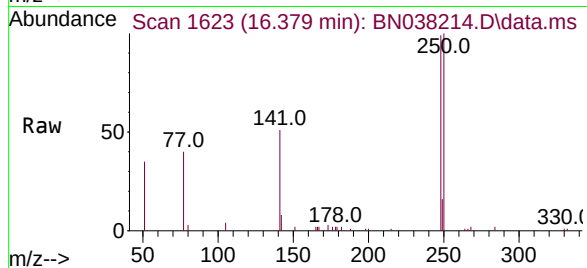




#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

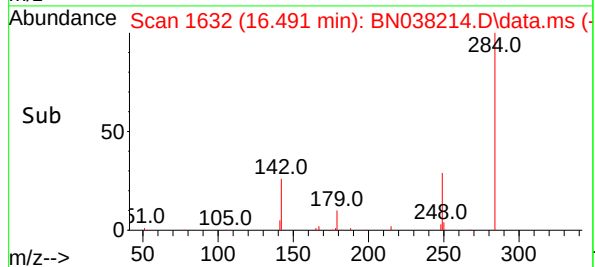
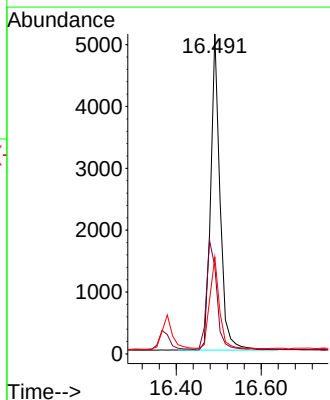
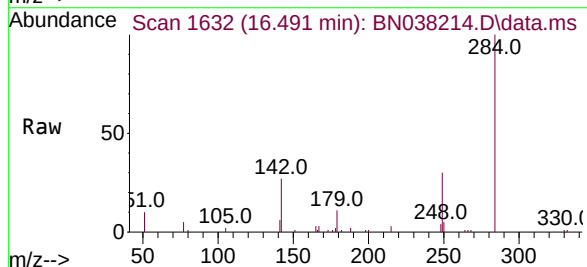
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

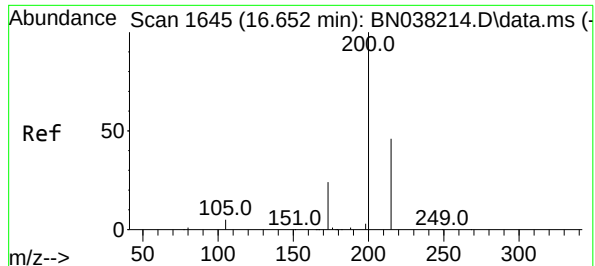
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.8	121.2
141	51.3	41.0	61.6



#22
Hexachlorobenzene
Concen: 0.420 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.5	45.7
249	29.8	23.8	35.8

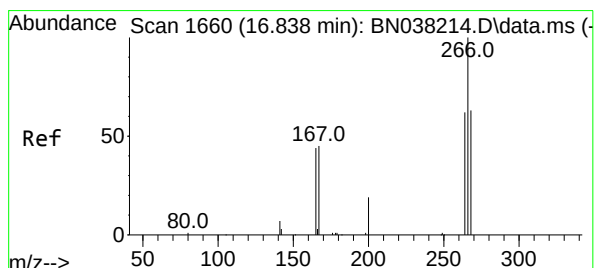
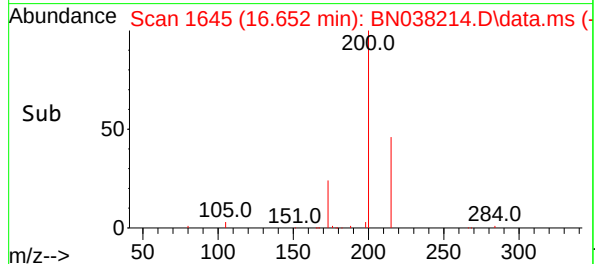
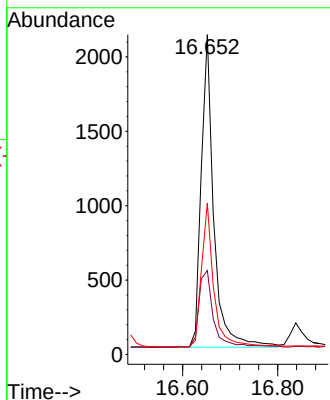
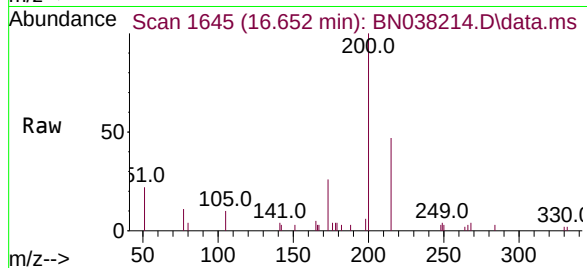




#23
Atrazine
Concen: 0.395 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

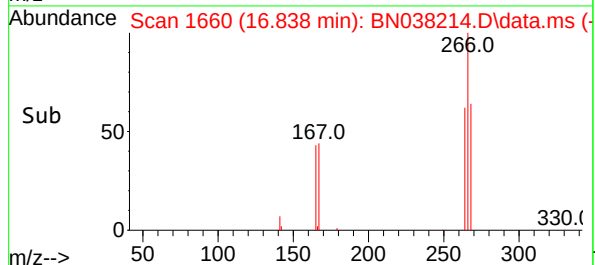
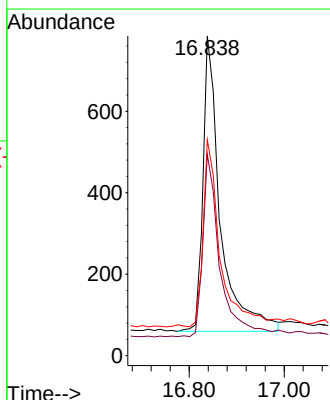
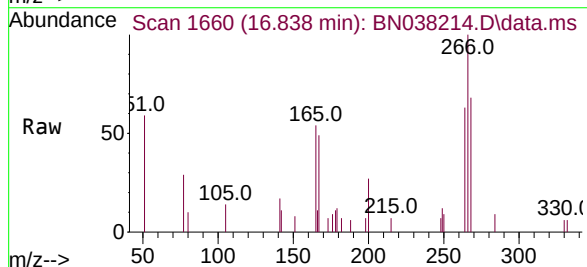
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

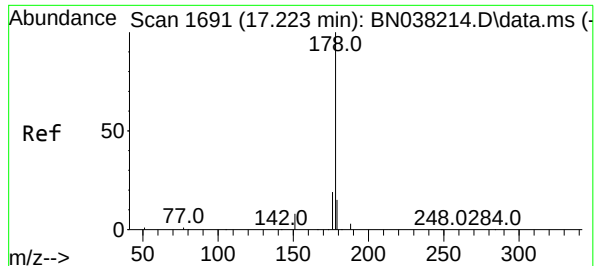
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.3	21.0	31.6
215	47.3	37.8	56.8



#24
Pentachlorophenol
Concen: 0.361 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.1	48.9	73.3
268	62.7	50.2	75.2

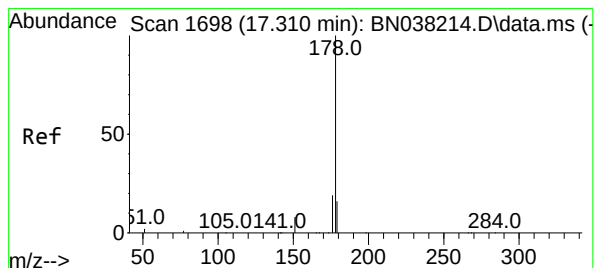
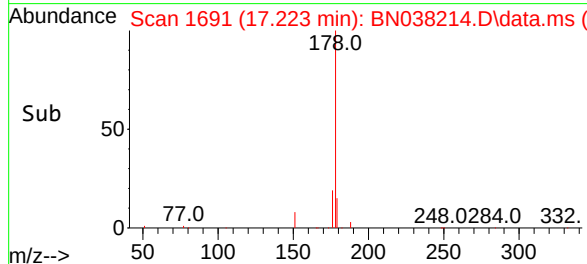
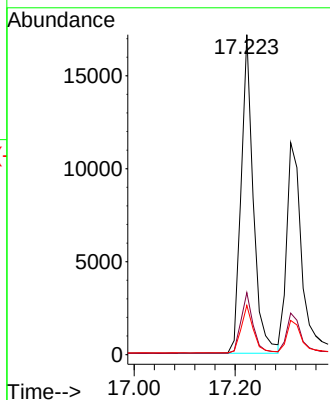
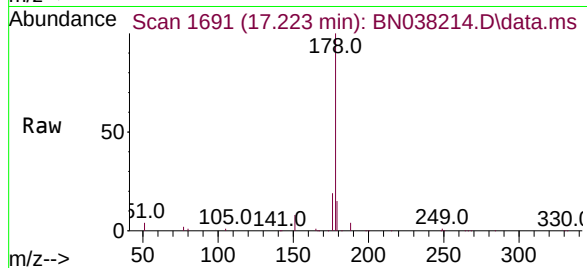




#25
Phenanthrene
Concen: 0.418 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

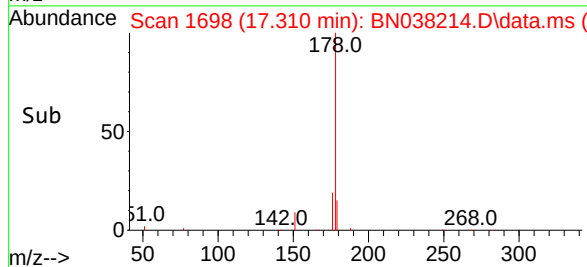
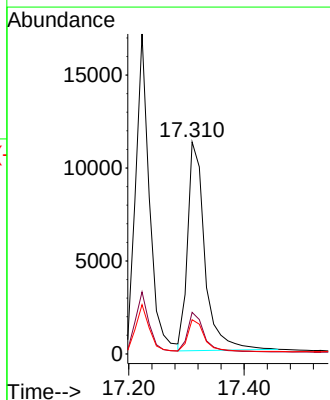
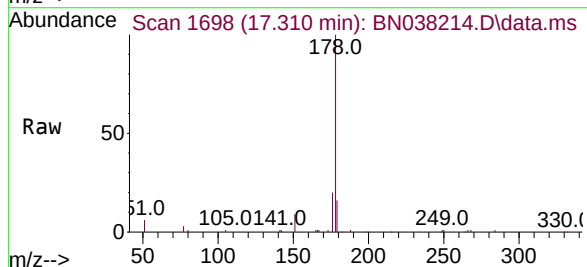
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

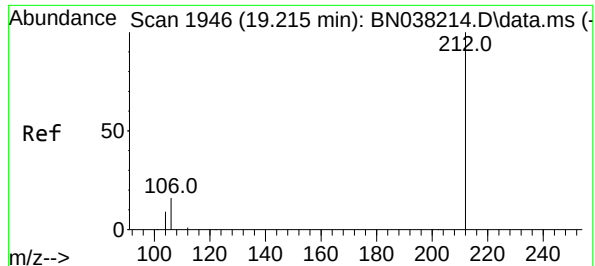
Tgt Ion:178 Resp: 28648
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.0 12.0 18.0



#26
Anthracene
Concen: 0.399 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:178 Resp: 23328
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.410 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

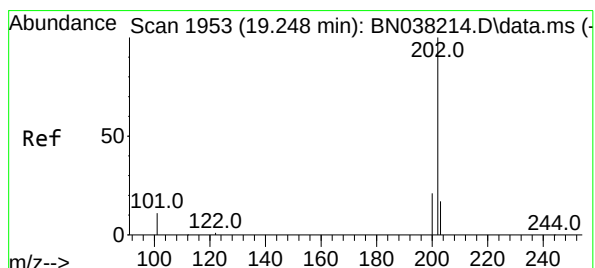
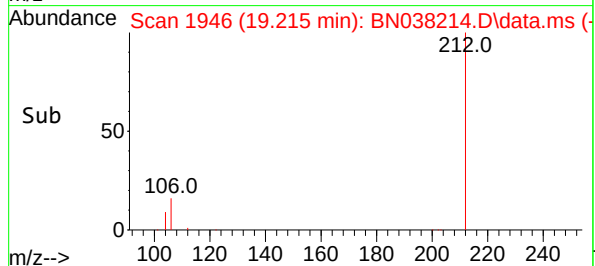
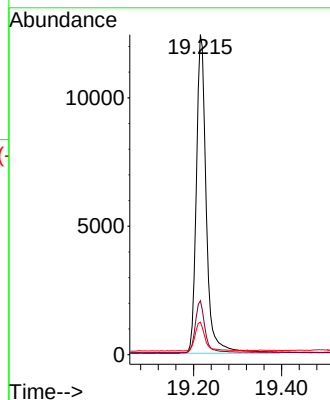
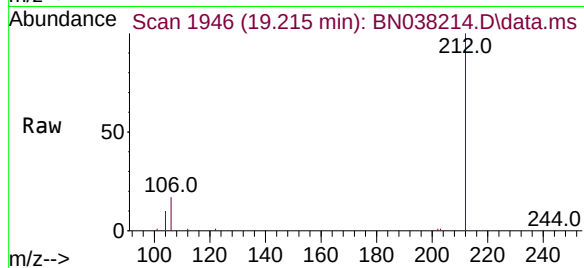
Tgt Ion:212 Resp: 19448

Ion Ratio Lower Upper

212 100

106 15.9 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.406 ng

RT: 19.248 min Scan# 1953

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

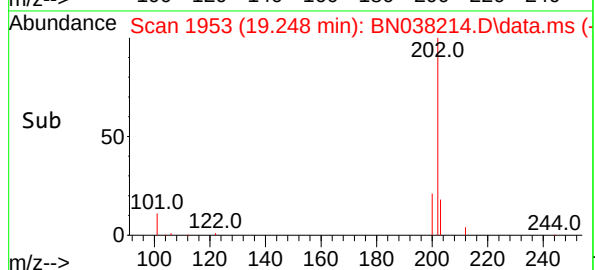
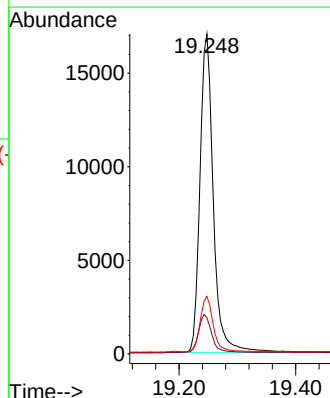
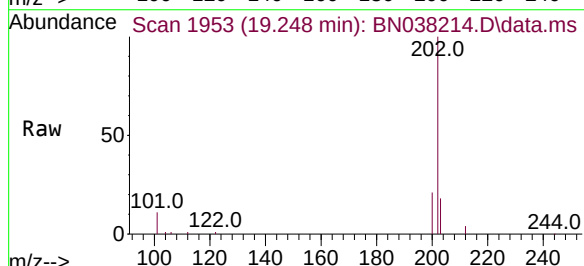
Tgt Ion:202 Resp: 26807

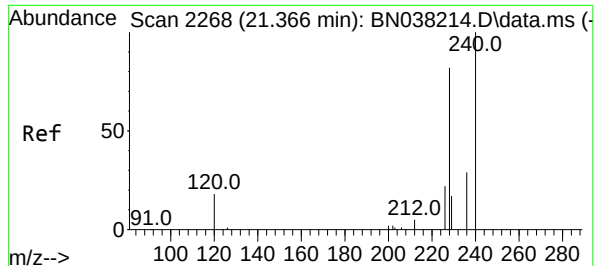
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

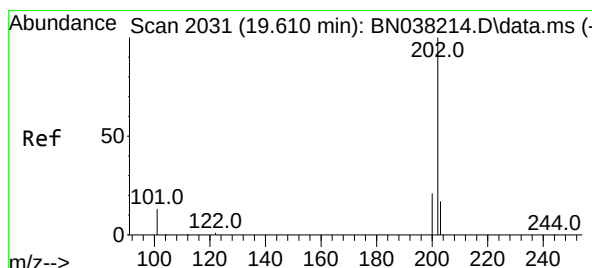
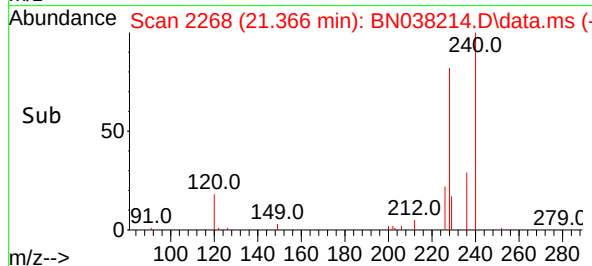
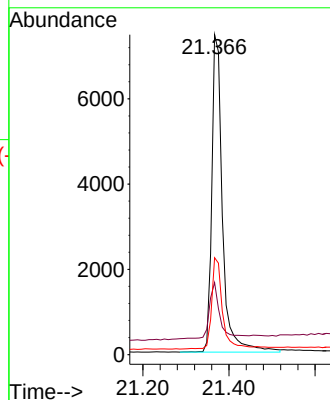
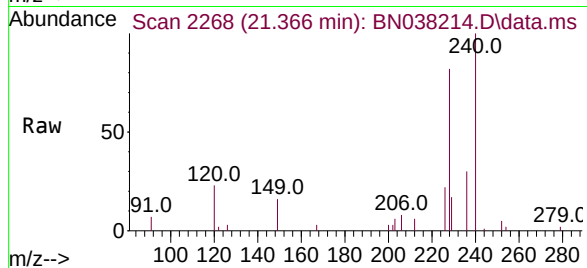
Tgt Ion:240 Resp: 12804

Ion Ratio Lower Upper

240 100

120 22.6 18.1 27.1

236 30.3 24.2 36.4



#30

Pyrene

Concen: 0.418 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

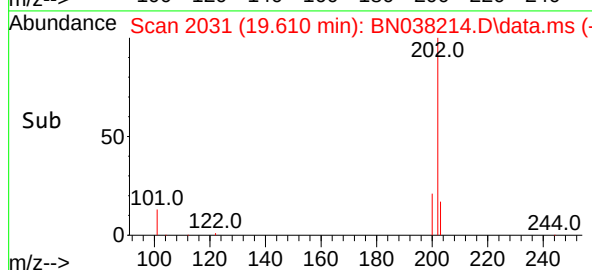
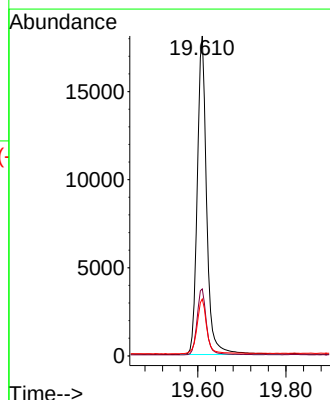
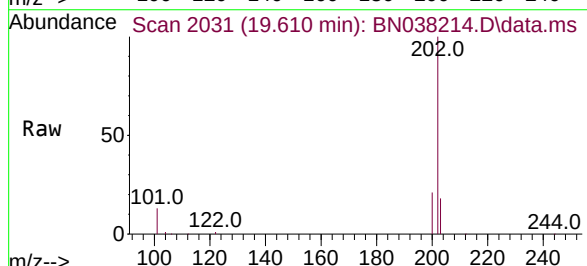
Tgt Ion:202 Resp: 26725

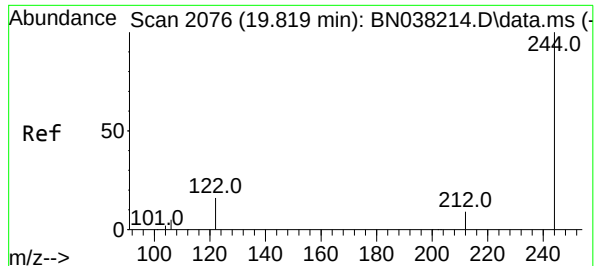
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.0 14.4 21.6

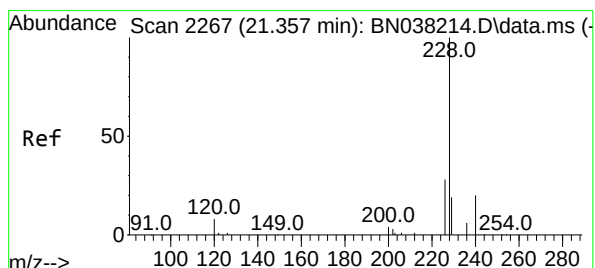
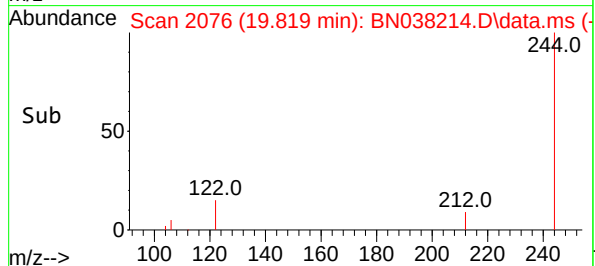
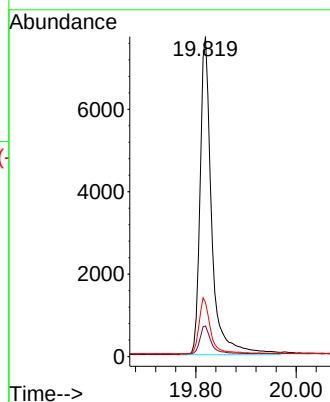
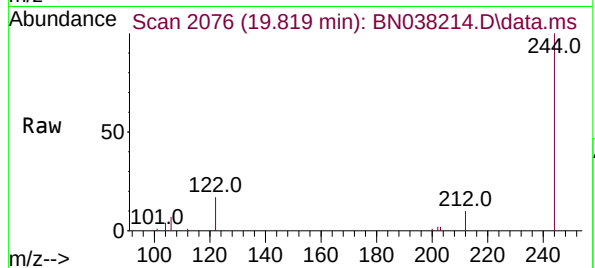




#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

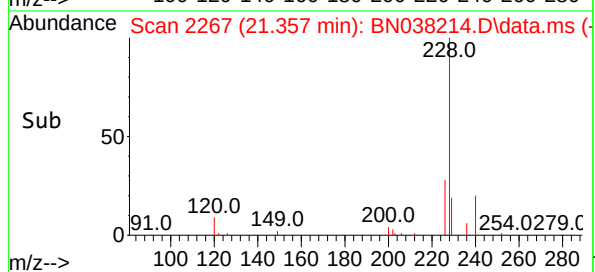
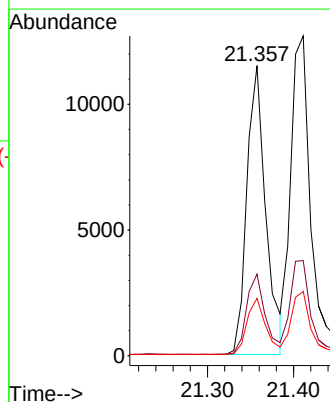
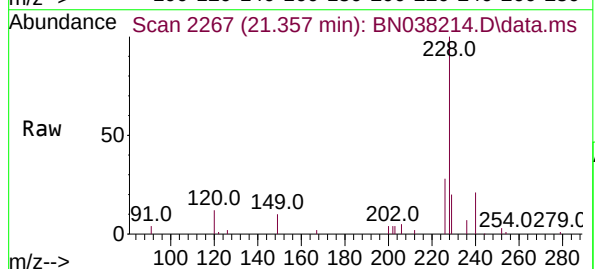
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

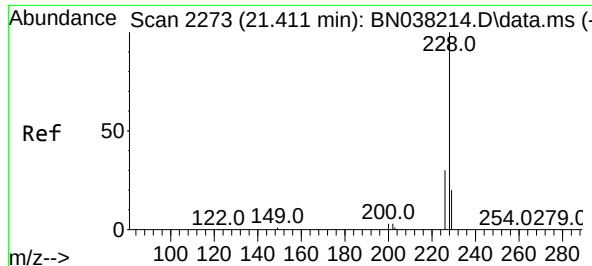
Tgt Ion:244 Resp: 12317
Ion Ratio Lower Upper
244 100
212 9.6 7.7 11.5
122 17.0 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:228 Resp: 17510
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.416 ng

RT: 21.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

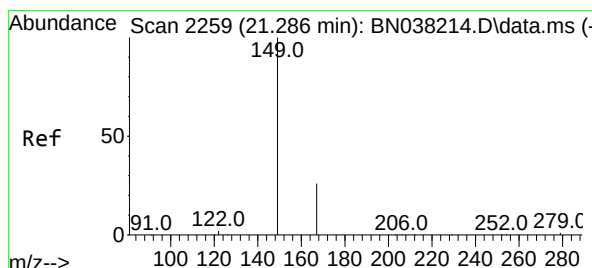
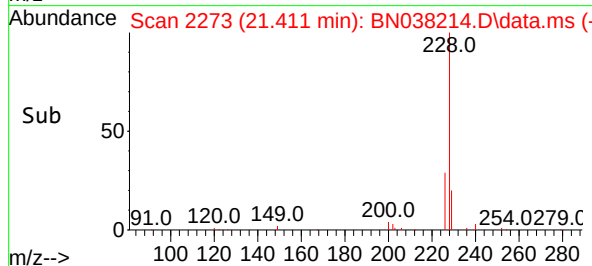
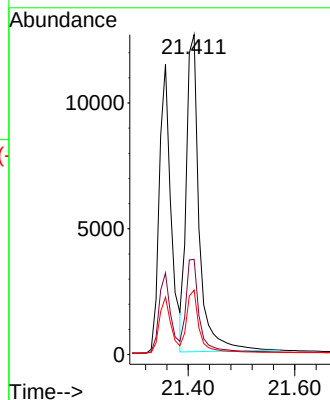
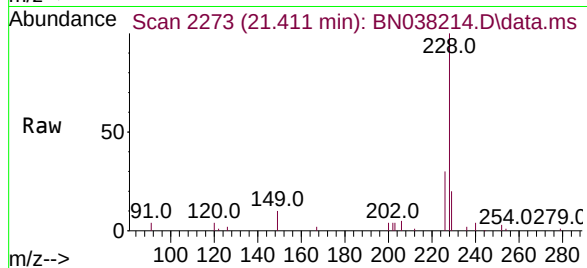
Tgt Ion:228 Resp: 21267

Ion Ratio Lower Upper

228 100

226 29.8 23.8 35.8

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.432 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

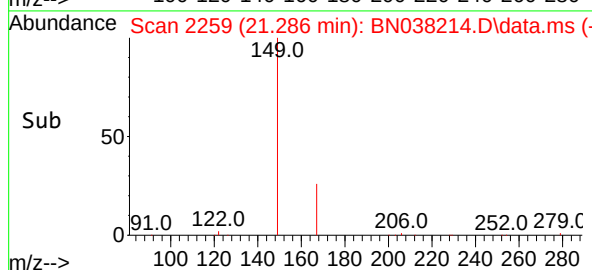
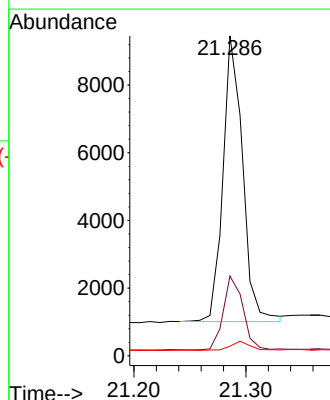
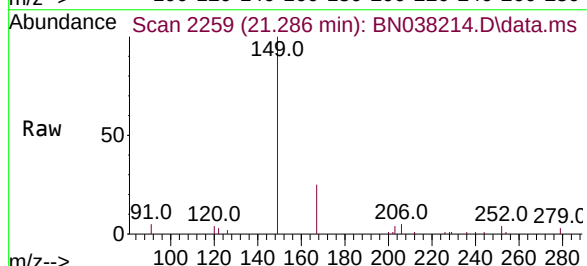
Tgt Ion:149 Resp: 10262

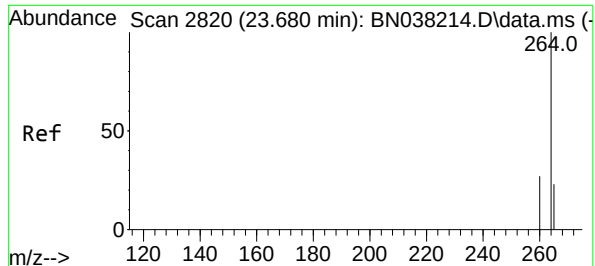
Ion Ratio Lower Upper

149 100

167 25.9 20.7 31.1

279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BN038214.D

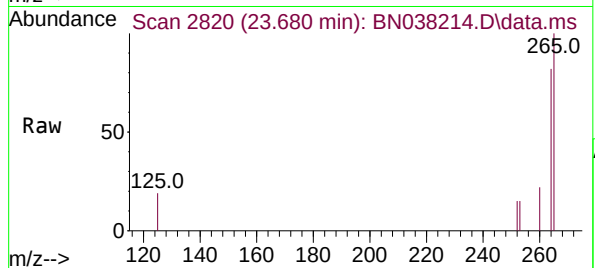
Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



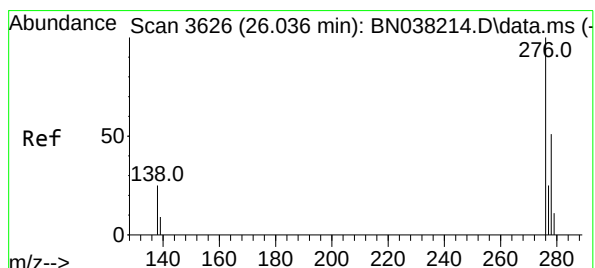
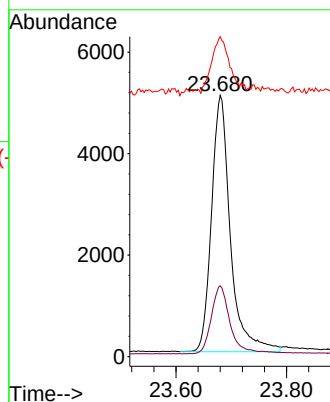
Tgt Ion:264 Resp: 11960

Ion Ratio Lower Upper

264 100

260 27.1 21.7 32.5

265 122.5 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.405 ng

RT: 26.036 min Scan# 3626

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

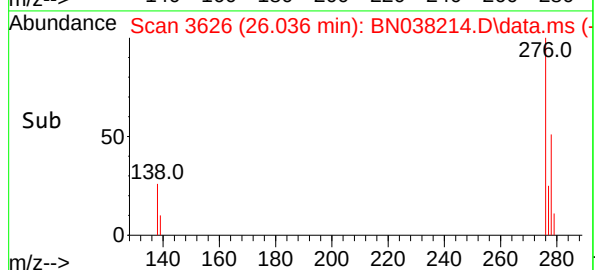
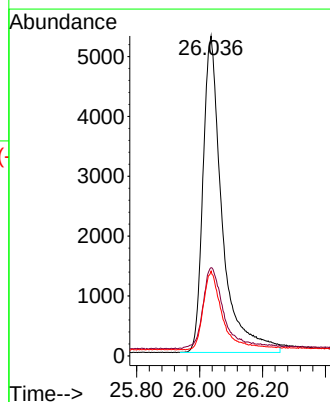
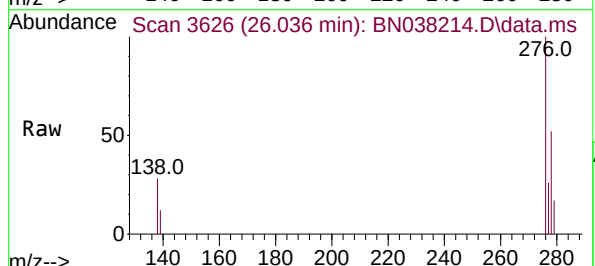
Tgt Ion:276 Resp: 22427

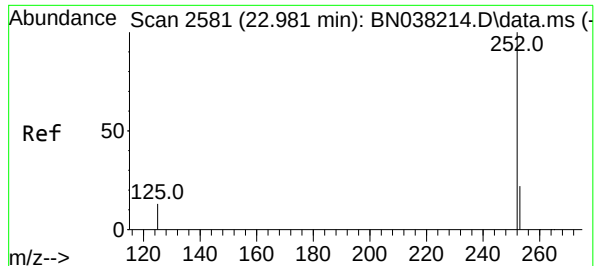
Ion Ratio Lower Upper

276 100

138 26.8 21.4 32.2

277 23.9 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

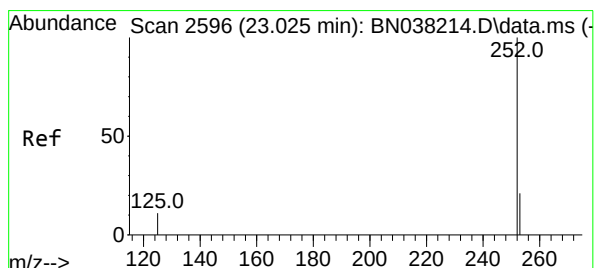
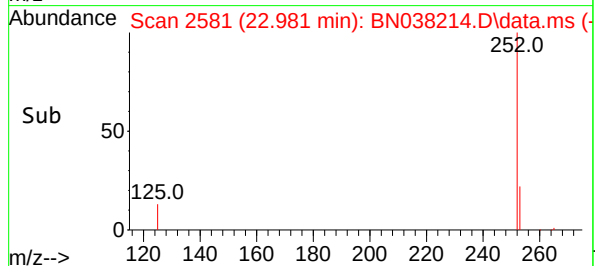
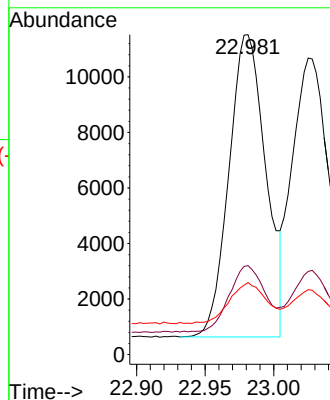
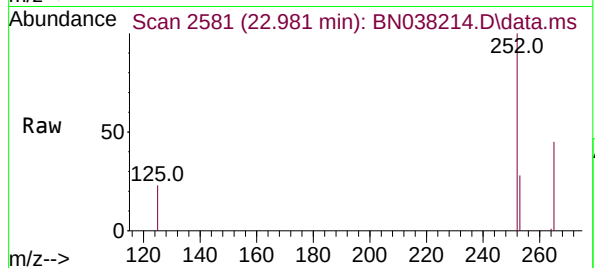
Tgt Ion:252 Resp: 20366

Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 22.5 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

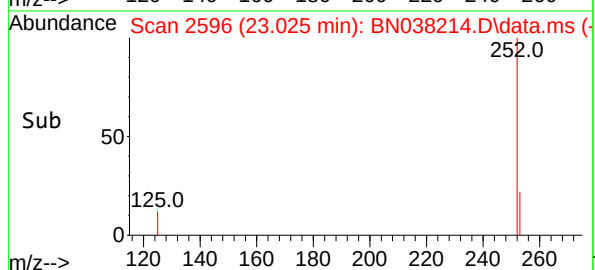
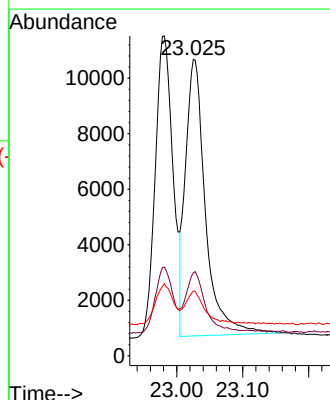
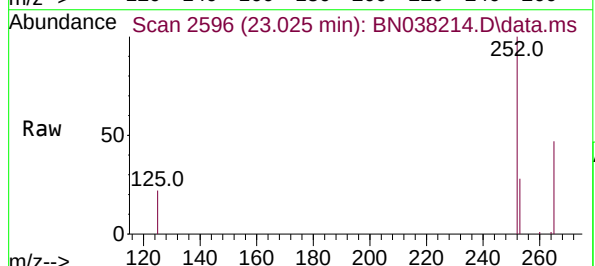
Tgt Ion:252 Resp: 21024

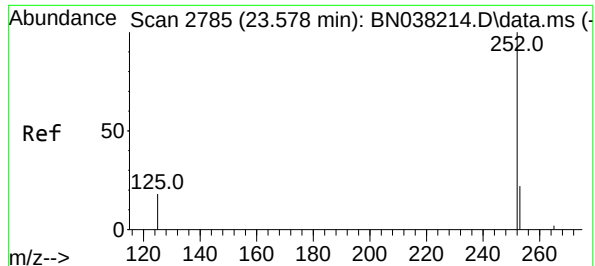
Ion Ratio Lower Upper

252 100

253 28.0 22.4 33.6

125 21.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.403 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

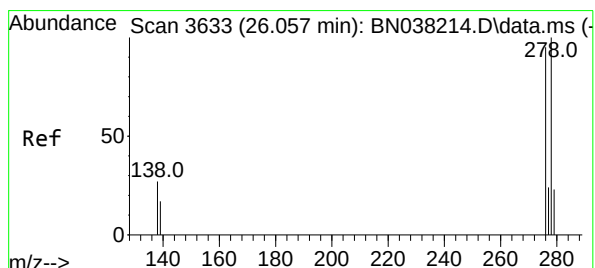
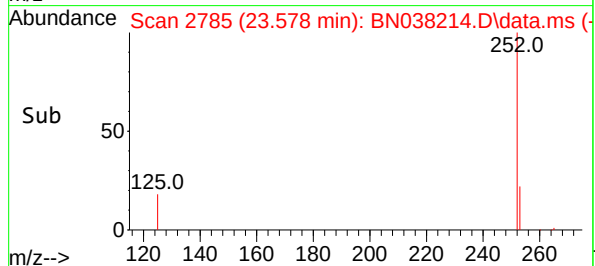
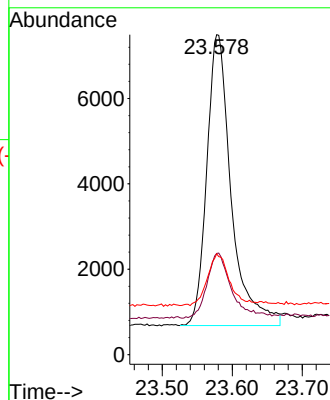
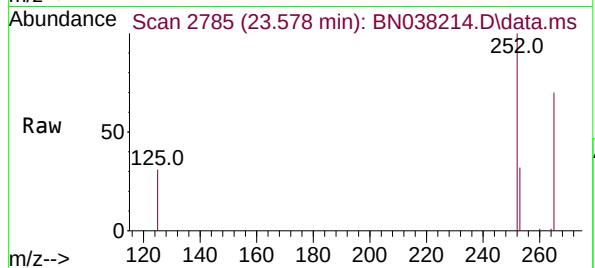
Tgt Ion:252 Resp: 16572

Ion Ratio Lower Upper

252 100

253 31.6 25.3 37.9

125 31.5 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.394 ng

RT: 26.057 min Scan# 3633

Delta R.T. 0.000 min

Lab File: BN038214.D

Acq: 26 Nov 2025 21:48

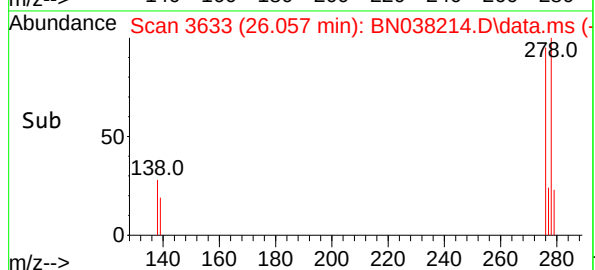
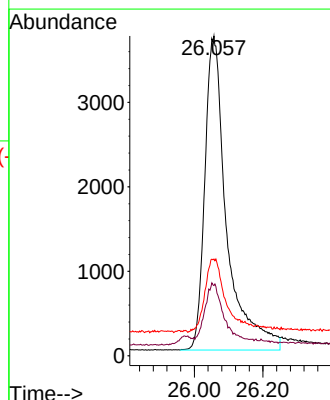
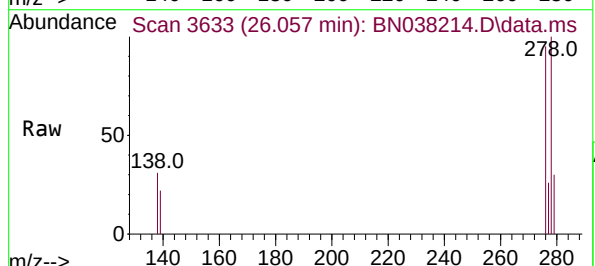
Tgt Ion:278 Resp: 16493

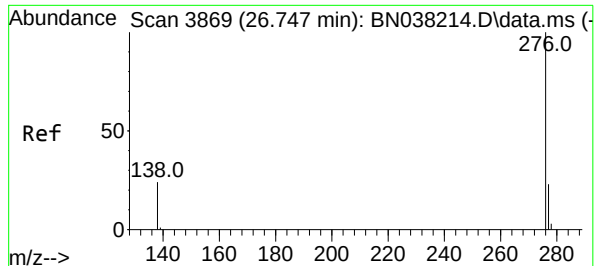
Ion Ratio Lower Upper

278 100

139 22.0 17.6 26.4

279 30.3 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.747 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN038214.D

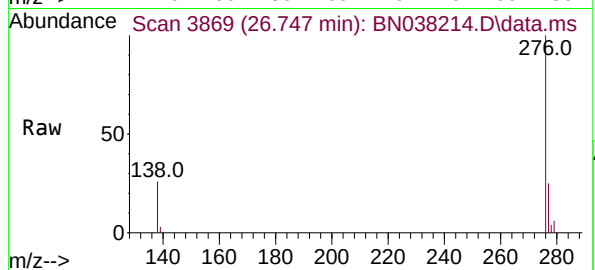
Acq: 26 Nov 2025 21:48

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



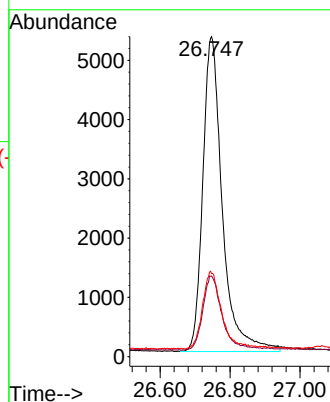
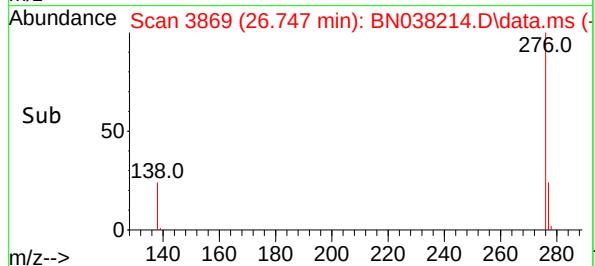
Tgt Ion:276 Resp: 20578

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 26.0 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038215.D
 Acq On : 26 Nov 2025 22:25
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 28 20:55:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

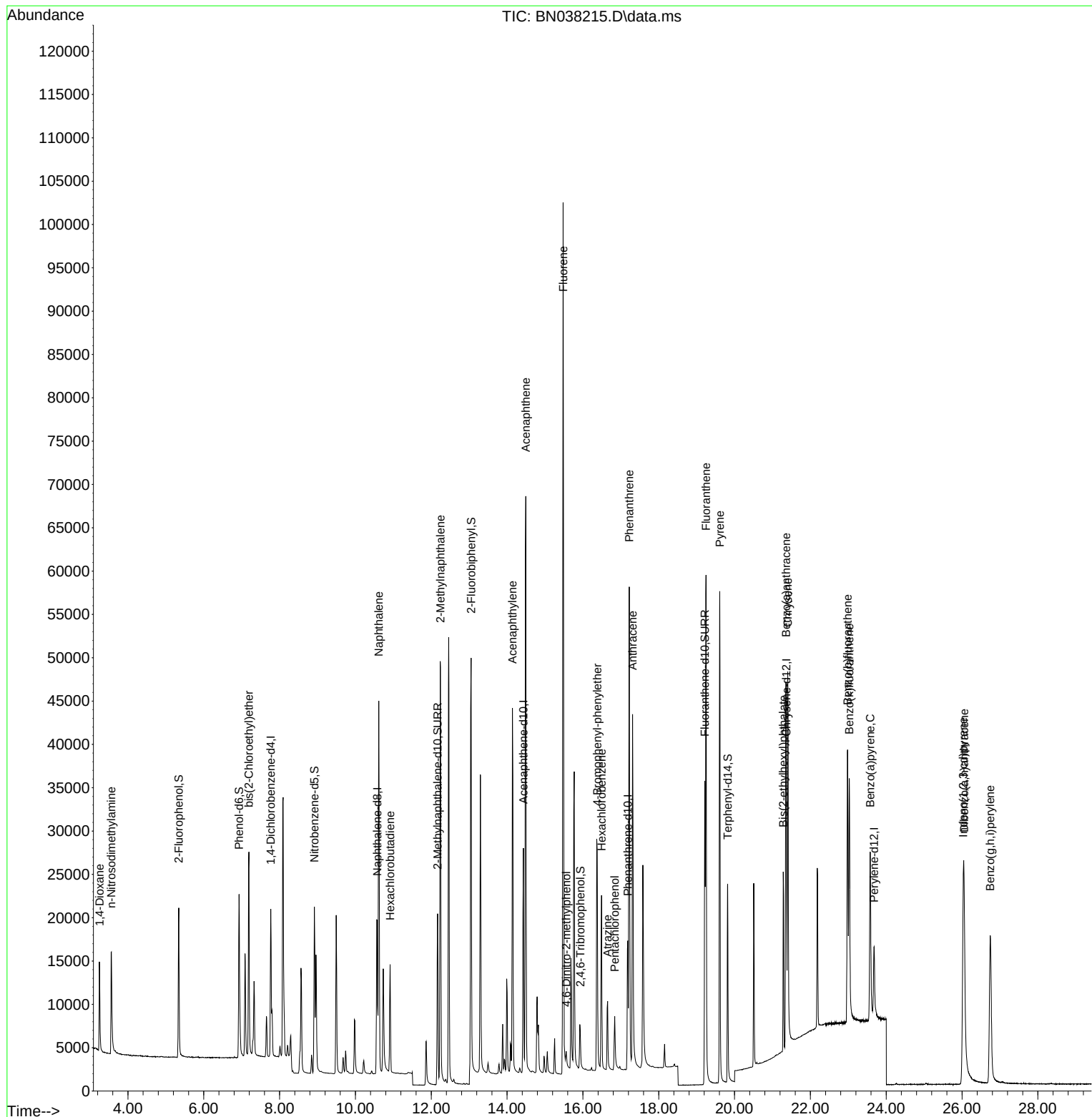
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8546	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	26276	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	14915	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	25075	0.400	ng	0.00
29) Chrysene-d12	21.366	240	14204	0.400	ng	0.00
35) Perylene-d12	23.680	264	12837	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	15064	0.754	ng	0.00
5) Phenol-d6	6.930	99	18777	0.752	ng	0.00
8) Nitrobenzene-d5	8.918	82	15990	0.761	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	29298	0.785	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	3651	0.778	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	46122	0.801	ng	0.00
27) Fluoranthene-d10	19.215	212	40949	0.753	ng	0.00
31) Terphenyl-d14	19.819	244	25737	0.785	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	6773	0.752	ng	98
3) n-Nitrosodimethylamine	3.557	42	8767	0.790	ng	# 97
6) bis(2-Chloroethyl)ether	7.190	93	18562	0.777	ng	99
9) Naphthalene	10.616	128	56483	0.774	ng	99
10) Hexachlorobutadiene	10.915	225	9583	0.772	ng	# 98
12) 2-Methylnaphthalene	12.243	142	37750	0.786	ng	99
16) Acenaphthylene	14.142	152	50771	0.761	ng	100
17) Acenaphthene	14.494	154	35729	0.768	ng	100
18) Fluorene	15.478	166	46865	0.779	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	1567	0.756	ng	# 38
21) 4-Bromophenyl-phenylether	16.379	248	13443	0.774	ng	96
22) Hexachlorobenzene	16.491	284	16054	0.752	ng	99
23) Atrazine	16.652	200	8217	0.741	ng	96
24) Pentachlorophenol	16.838	266	3987	0.681	ng	98
25) Phenanthrene	17.223	178	60297	0.766	ng	100
26) Anthracene	17.310	178	50969	0.759	ng	100
28) Fluoranthene	19.248	202	57482	0.758	ng	100
30) Pyrene	19.610	202	56009	0.789	ng	100
32) Benzo(a)anthracene	21.357	228	37504	0.780	ng	99
33) Chrysene	21.402	228	43104	0.759	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	19894	0.755	ng	99
36) Indeno(1,2,3-cd)pyrene	26.031	276	44577	0.750	ng	99
37) Benzo(b)fluoranthene	22.981	252	40731	0.773	ng	# 91
38) Benzo(k)fluoranthene	23.025	252	42564	0.777	ng	# 91
39) Benzo(a)pyrene	23.578	252	33796	0.765	ng	# 86
40) Dibenzo(a,h)anthracene	26.054	278	34639	0.770	ng	94
41) Benzo(g,h,i)perylene	26.744	276	41508	0.777	ng	100

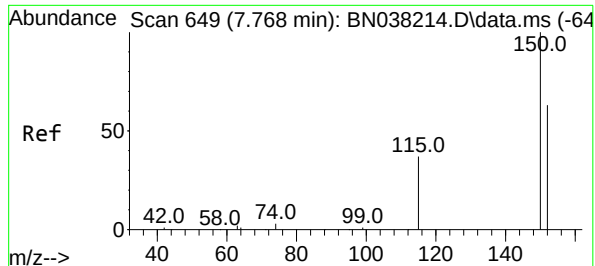
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038215.D
 Acq On : 26 Nov 2025 22:25
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Nov 28 20:55:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

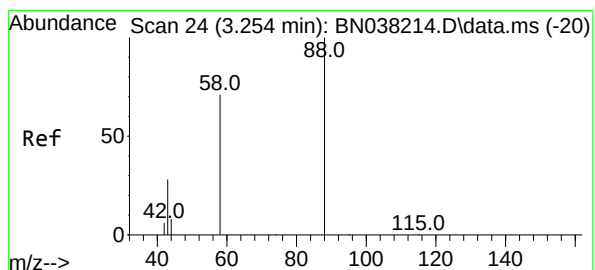
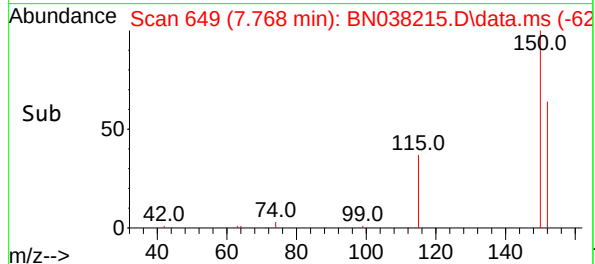
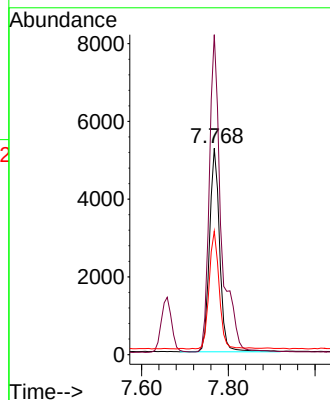
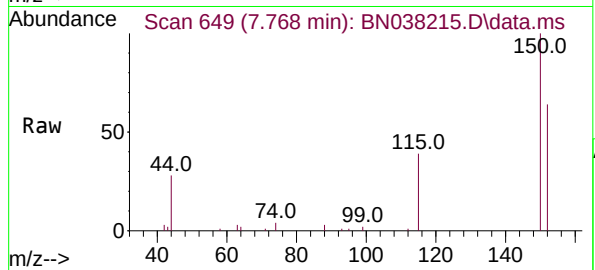




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

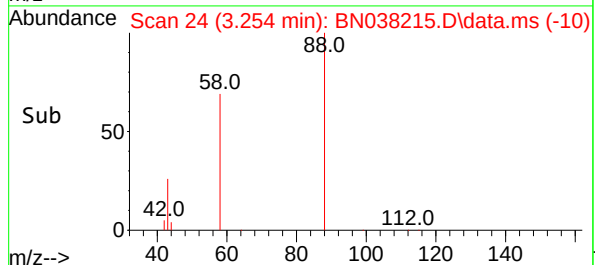
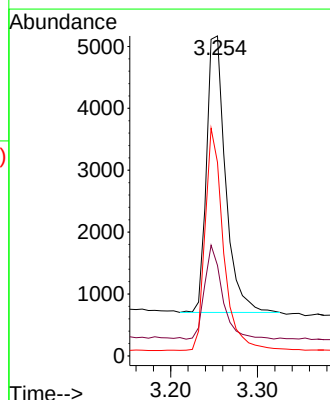
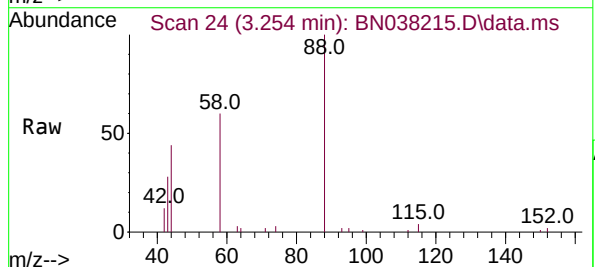
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

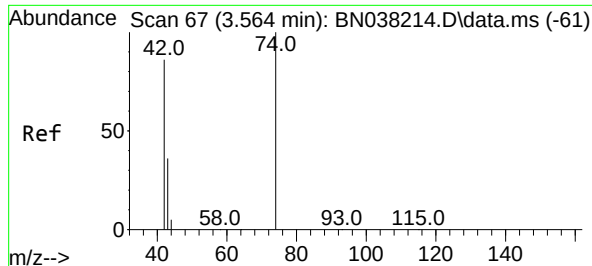
Tgt Ion:152 Resp: 8546
Ion Ratio Lower Upper
152 100
150 155.1 125.3 187.9
115 59.8 49.0 73.4



#2
1,4-Dioxane
Concen: 0.752 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 88 Resp: 6773
Ion Ratio Lower Upper
88 100
43 32.1 24.8 37.2
58 77.6 61.1 91.7

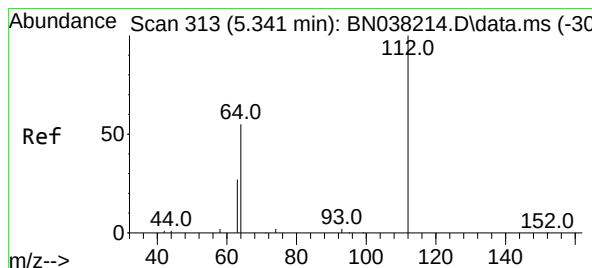
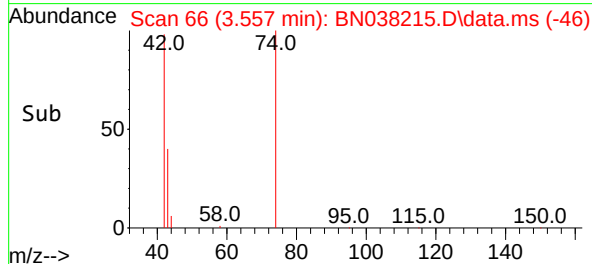
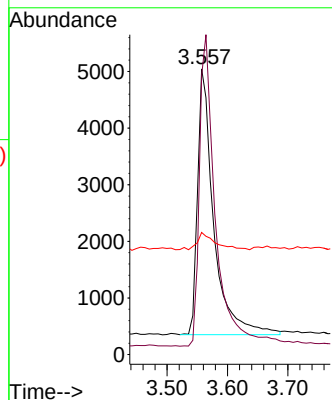
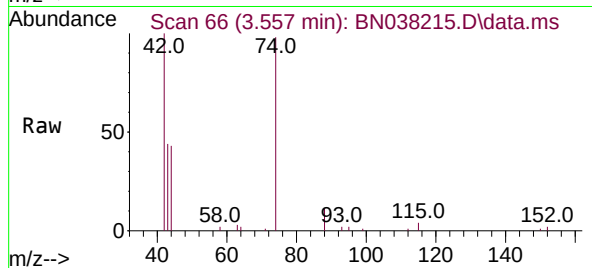




#3
n-Nitrosodimethylamine
Concen: 0.790 ng
RT: 3.557 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

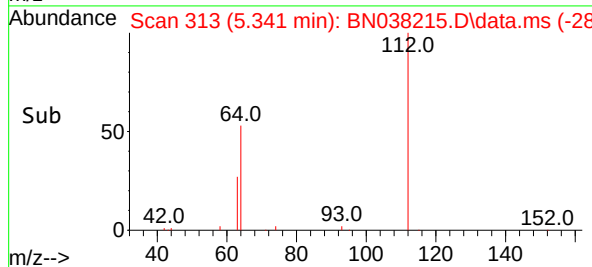
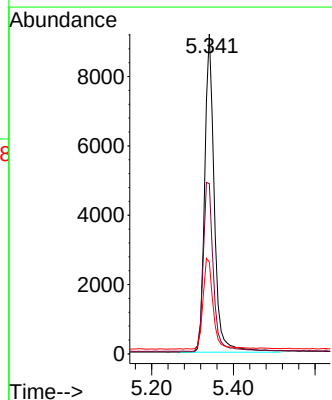
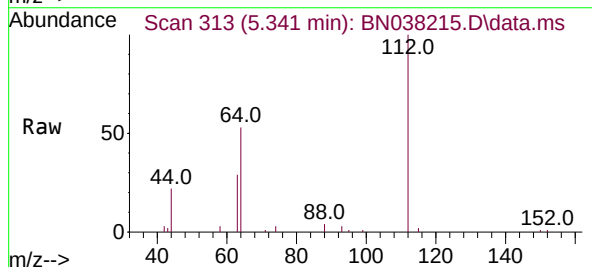
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

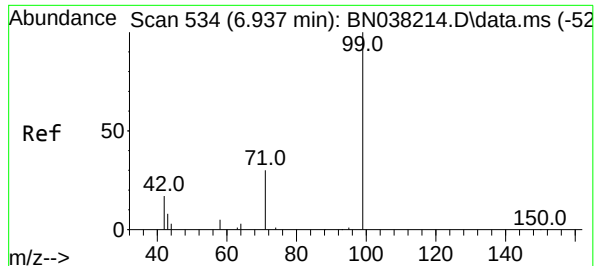
Tgt Ion: 42 Resp: 8767
Ion Ratio Lower Upper
42 100
74 117.4 96.2 144.2
44 7.3 8.0 12.0#



#4
2-Fluorophenol
Concen: 0.754 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 112 Resp: 15064
Ion Ratio Lower Upper
112 100
64 56.7 45.0 67.4
63 30.1 23.2 34.8

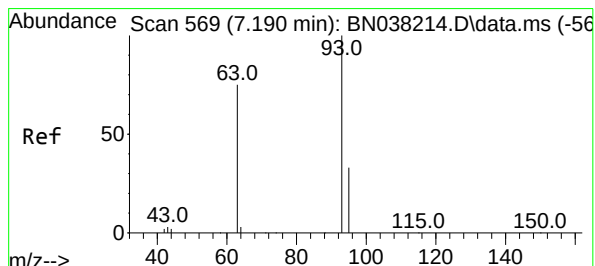
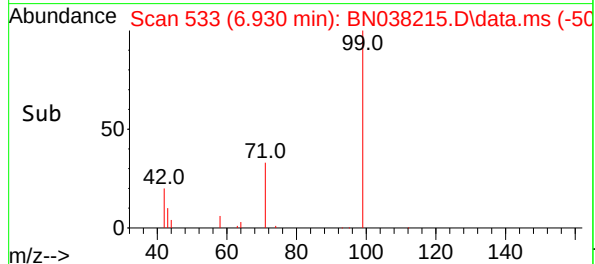
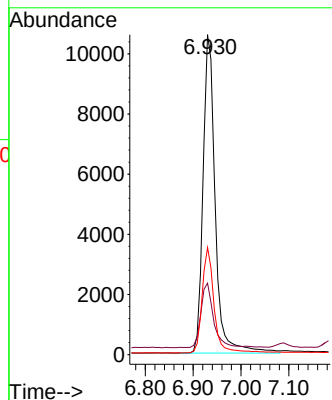
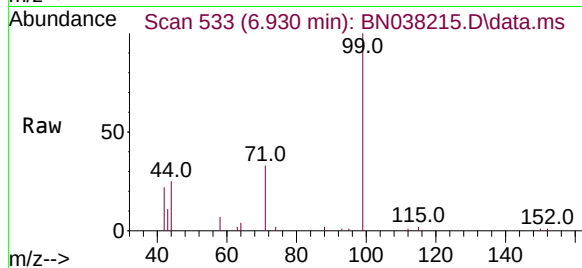




#5
Phenol-d6
Concen: 0.752 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

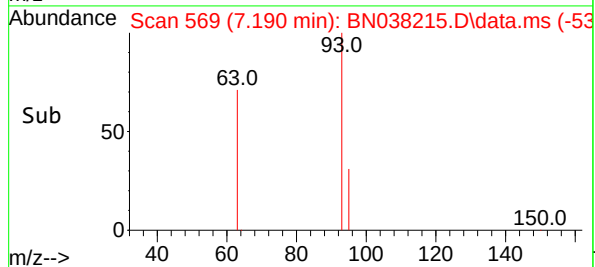
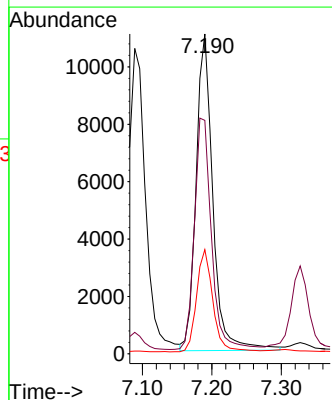
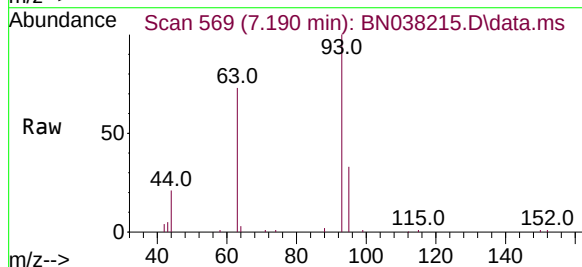
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

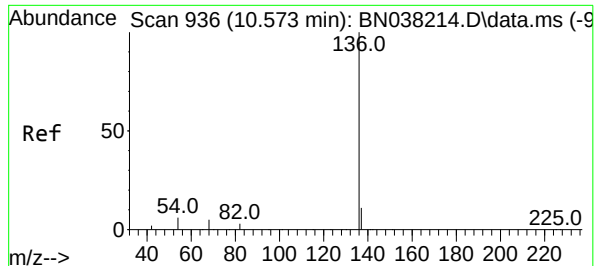
Tgt Ion: 99 Resp: 18777
Ion Ratio Lower Upper
99 100
42 20.9 17.0 25.6
71 32.5 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.777 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 93 Resp: 18562
Ion Ratio Lower Upper
93 100
63 74.2 58.1 87.1
95 31.5 25.1 37.7

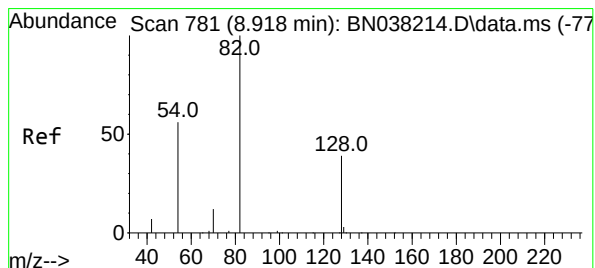
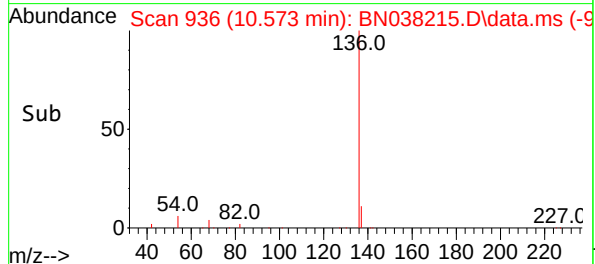
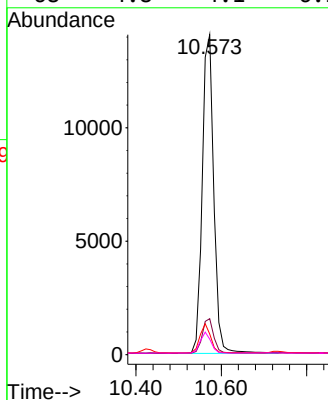
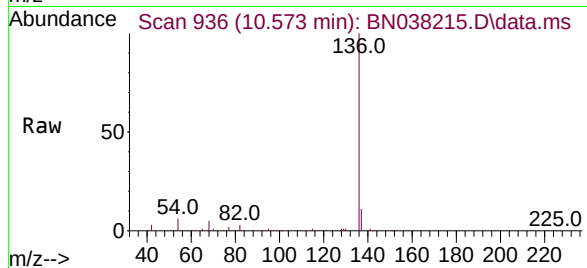




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

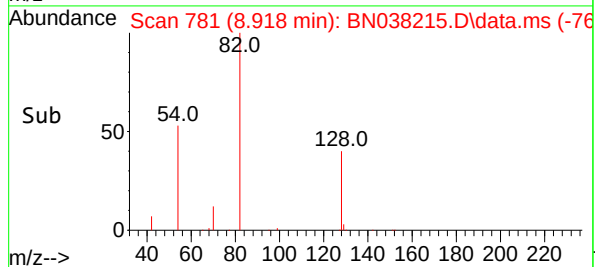
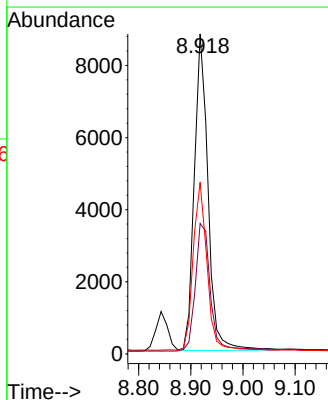
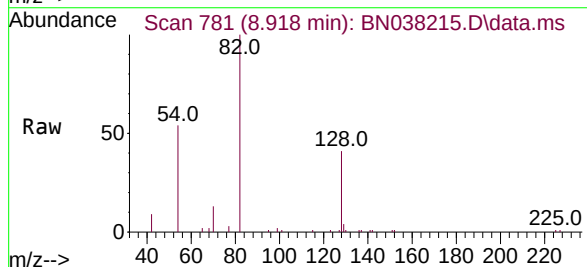
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

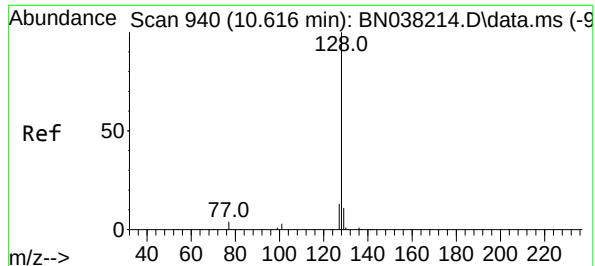
Tgt Ion:	136	Resp:	26276
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	6.4	5.4	8.0
68	4.8	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:	82	Resp:	15990
Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.6	48.8
54	53.6	45.4	68.0

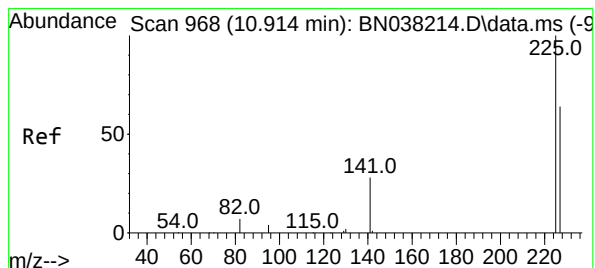
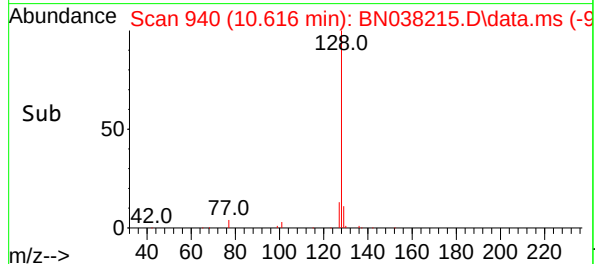
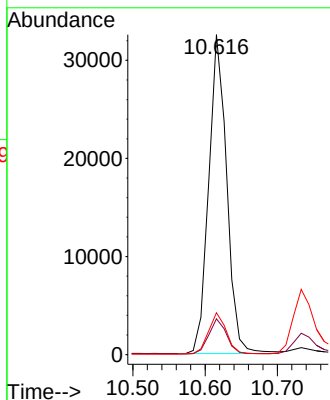
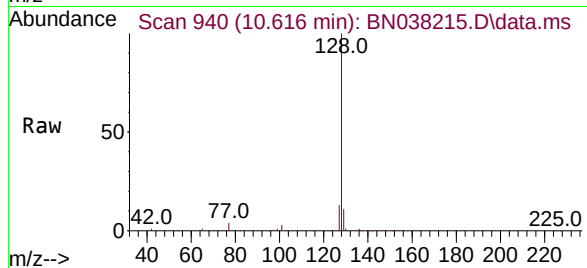




#9
Naphthalene
Concen: 0.774 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

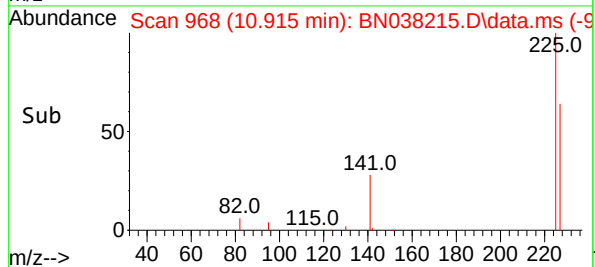
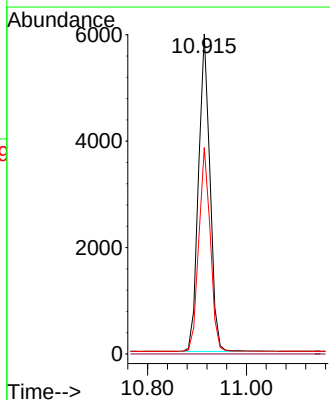
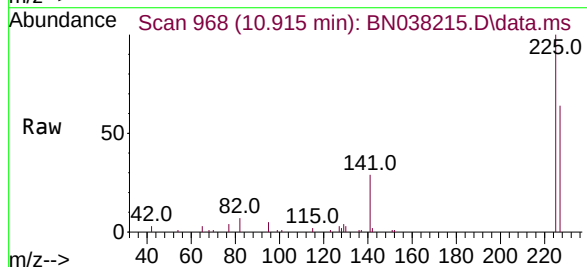
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

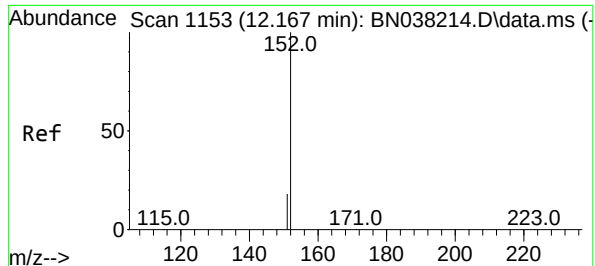
Tgt Ion	128	129	127
Resp:	56483		
Ion Ratio	100	11.2	13.1
Lower		9.1	10.6
Upper		13.7	16.0



#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion	225	223	227
Resp:	9583		
Ion Ratio	100	0.0	64.4
Lower		0.0	50.5
Upper		0.0	75.7

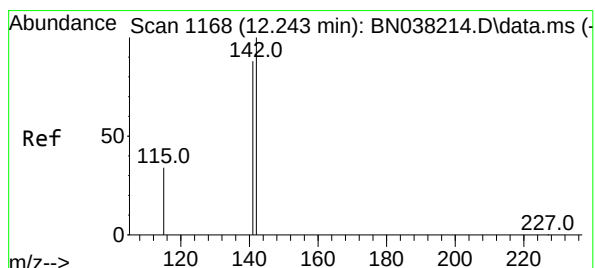
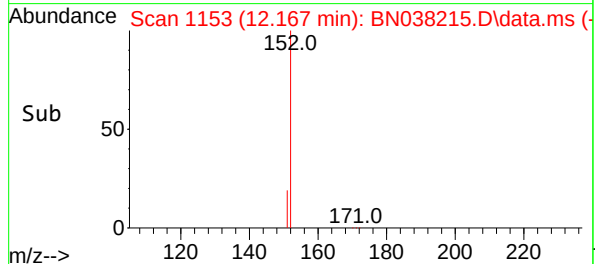
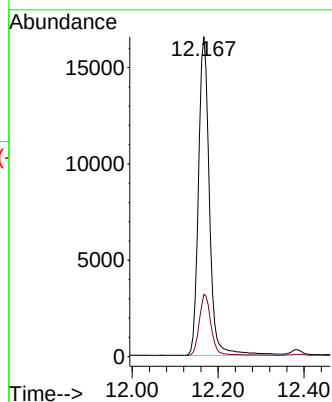
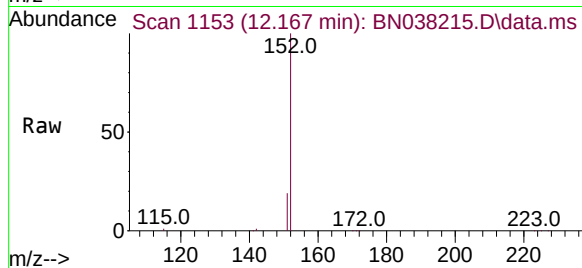




#11
2-Methylnaphthalene-d10
Concen: 0.785 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

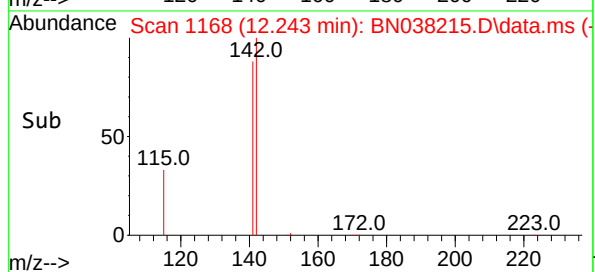
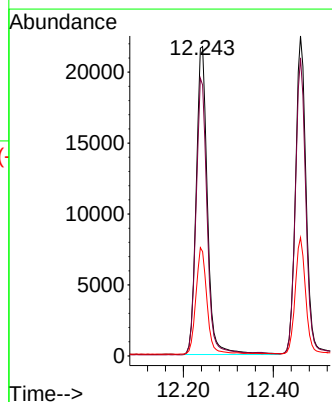
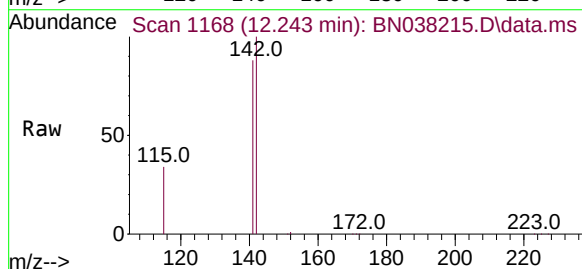
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

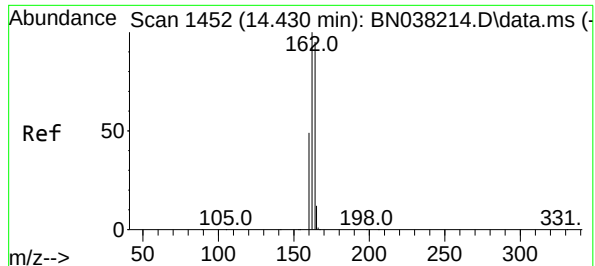
Tgt Ion:152 Resp: 29298
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.786 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:142 Resp: 37750
Ion Ratio Lower Upper
142 100
141 87.5 70.9 106.3
115 33.7 27.7 41.5

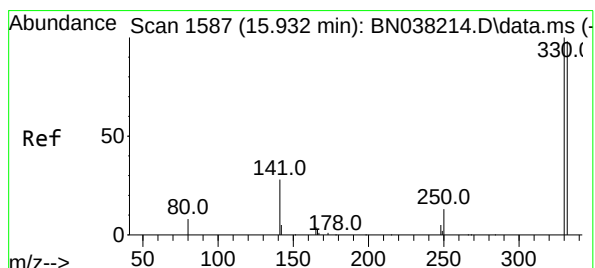
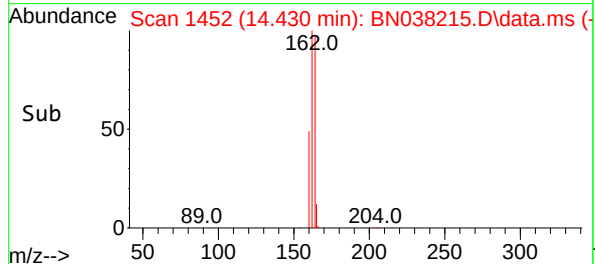
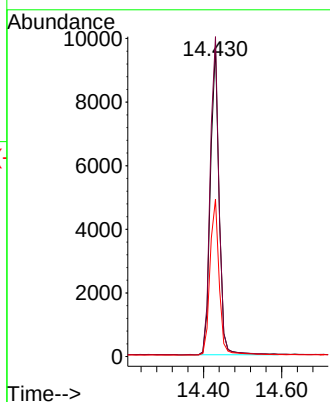
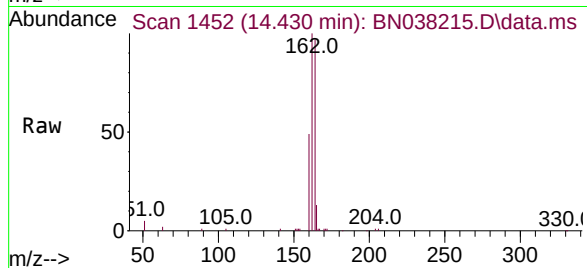




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

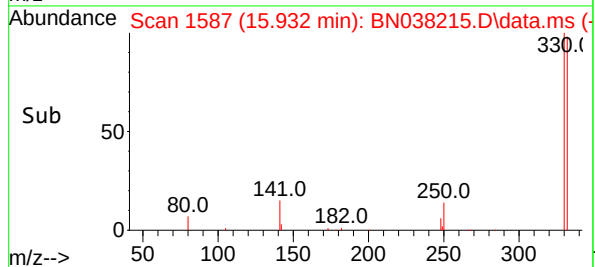
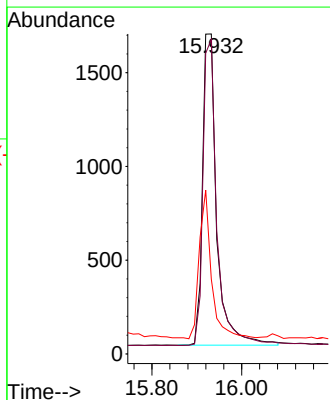
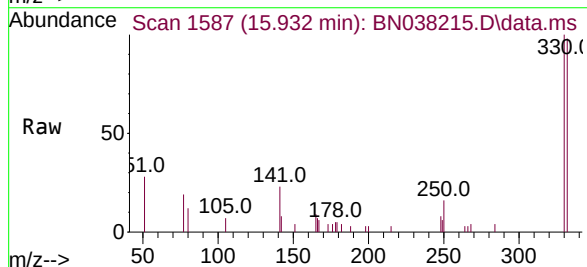
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

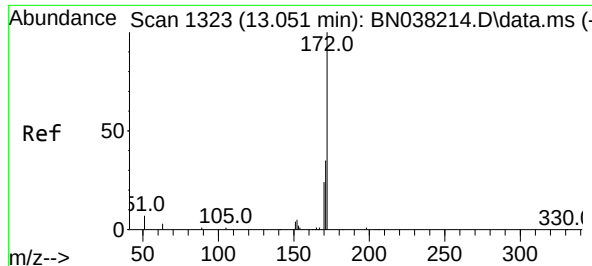
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	83.8	125.8
160	50.7	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 0.778 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.8	116.6
141	40.0	33.0	49.4

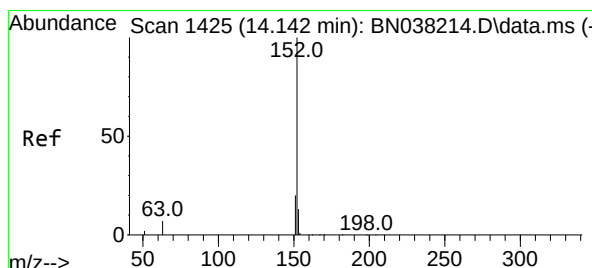
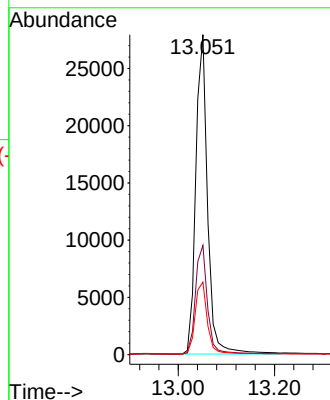
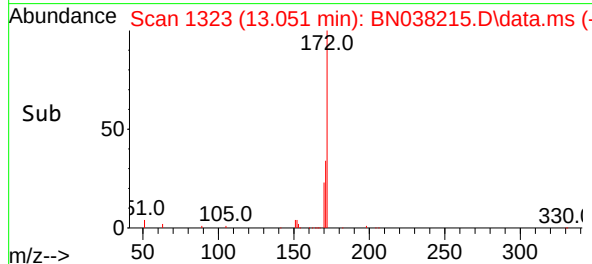
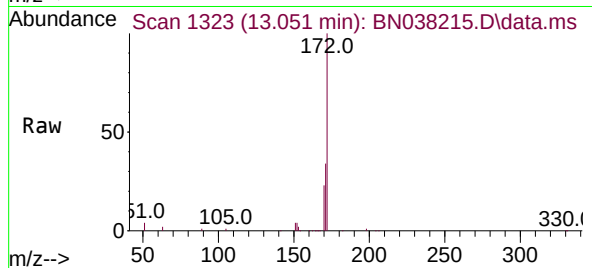




#15
2-Fluorobiphenyl
Concen: 0.801 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

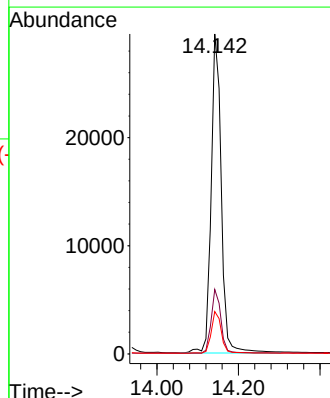
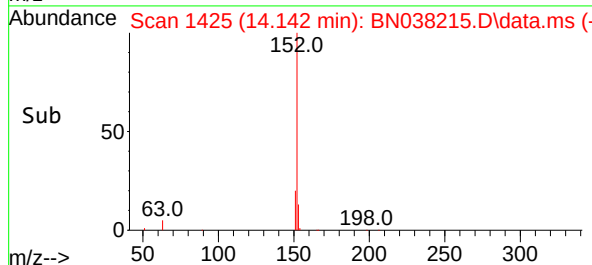
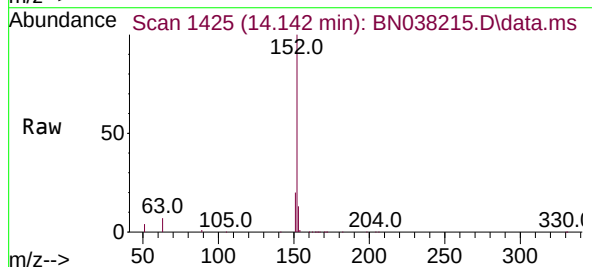
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

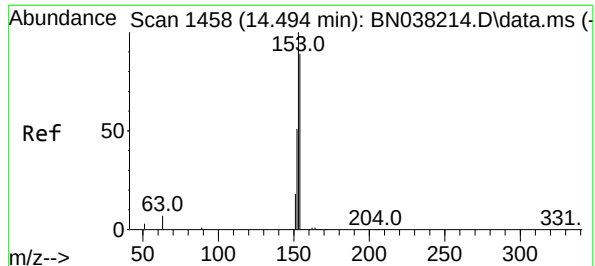
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.1	42.1
170	22.7	19.1	28.7



#16
Acenaphthylene
Concen: 0.761 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.0	10.6	15.8

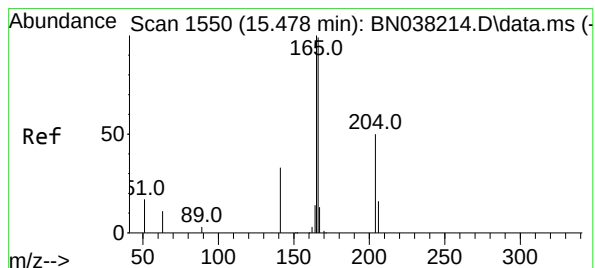
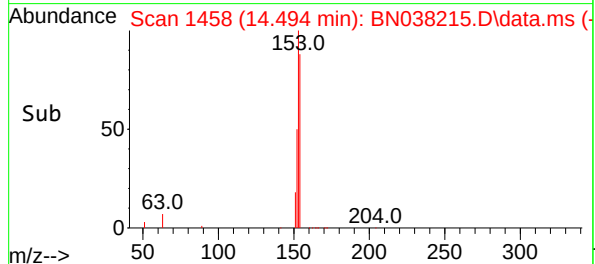
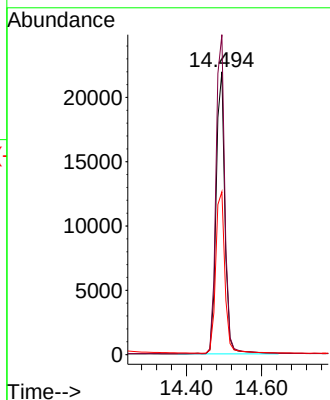
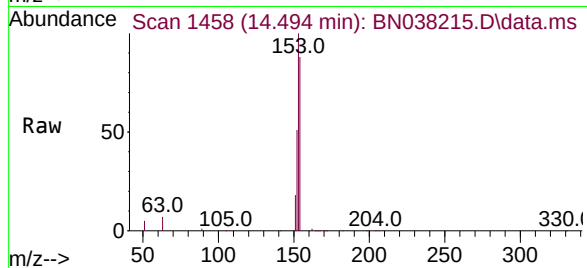




#17
Acenaphthene
Concen: 0.768 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

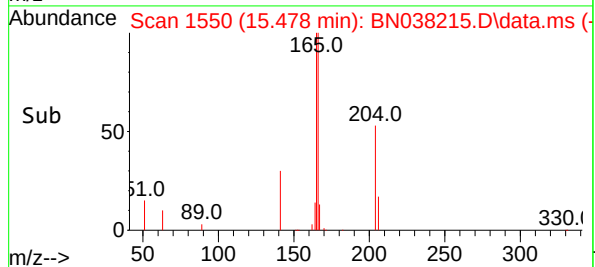
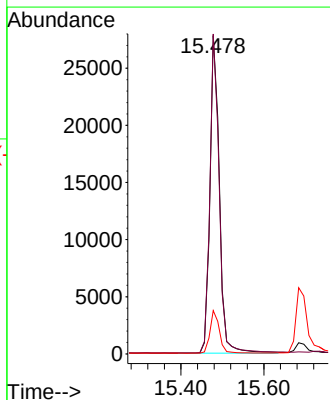
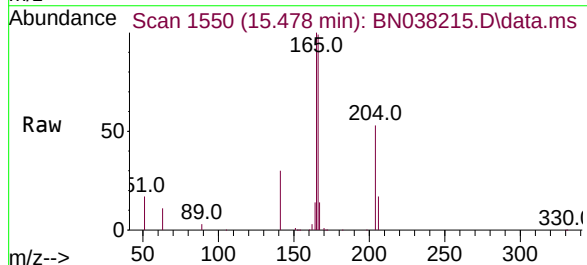
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

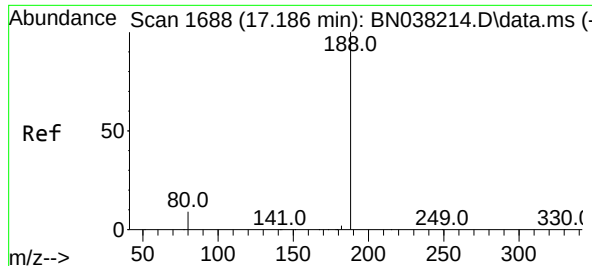
Tgt Ion:154 Resp: 35729
Ion Ratio Lower Upper
154 100
153 114.6 91.1 136.7
152 60.2 48.2 72.2



#18
Fluorene
Concen: 0.779 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:166 Resp: 46865
Ion Ratio Lower Upper
166 100
165 100.0 78.7 118.1
167 13.4 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1688

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

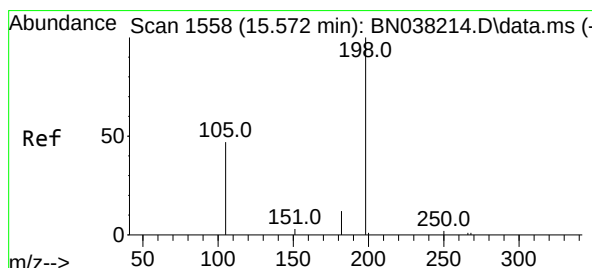
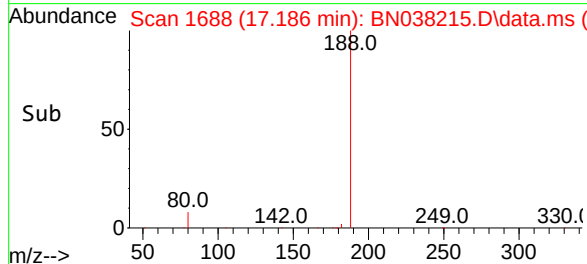
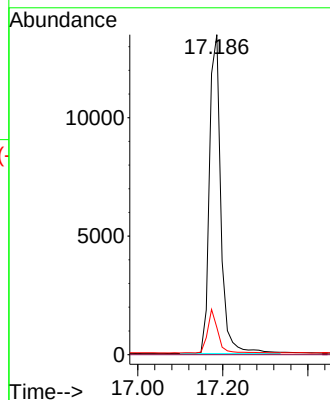
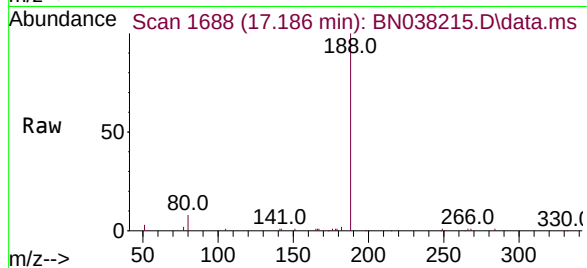
Tgt Ion:188 Resp: 25075

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 7.7 11.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.756 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

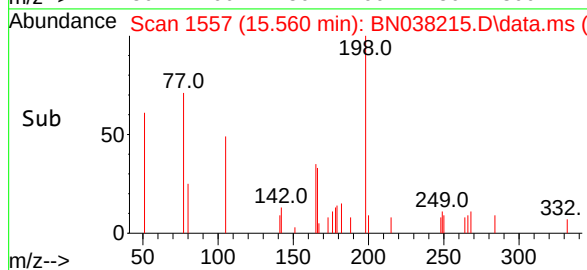
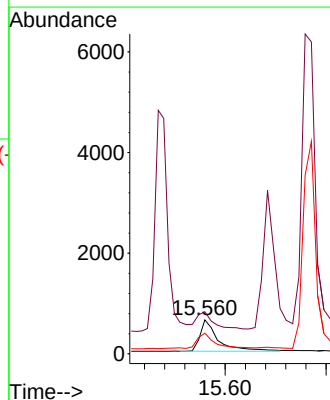
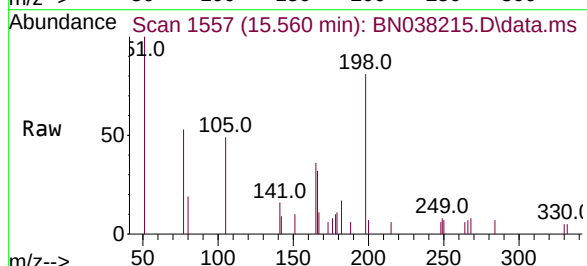
Tgt Ion:198 Resp: 1567

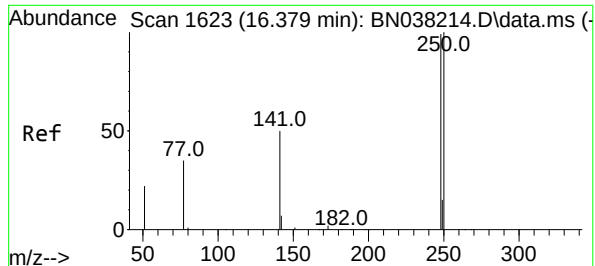
Ion Ratio Lower Upper

198 100

51 124.0 205.1 307.7#

105 61.1 61.6 92.4#

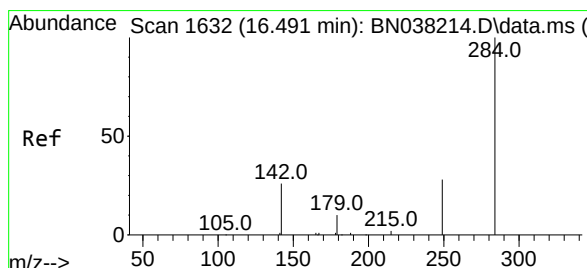
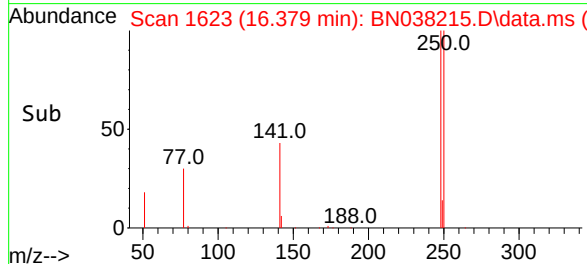
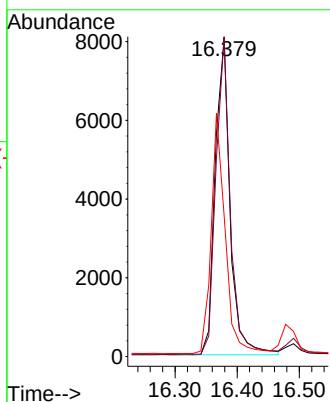
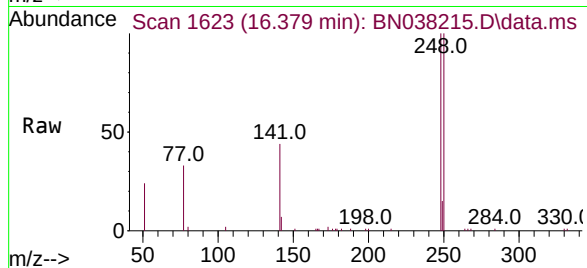




#21
4-Bromophenyl-phenylether
Concen: 0.774 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

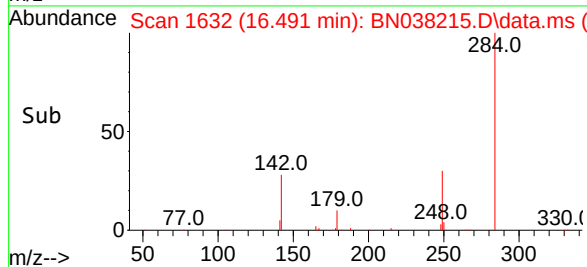
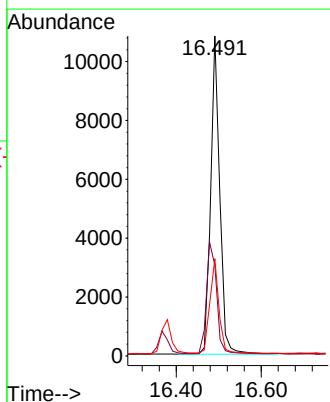
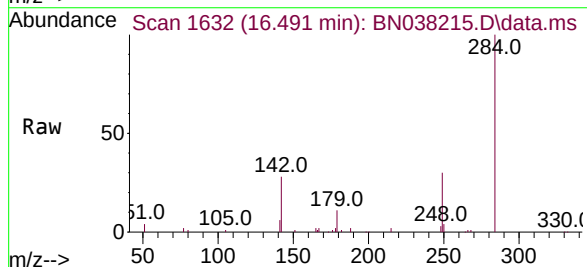
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

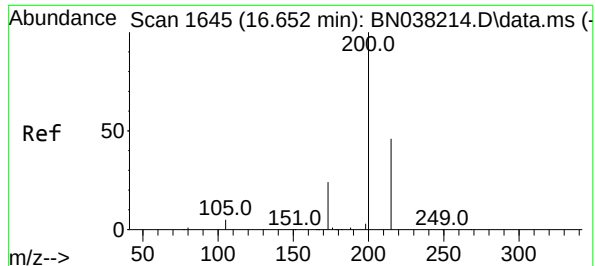
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.4	80.8	121.2
141	44.3	41.0	61.6



#22
Hexachlorobenzene
Concen: 0.752 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.8	30.5	45.7
249	30.0	23.8	35.8

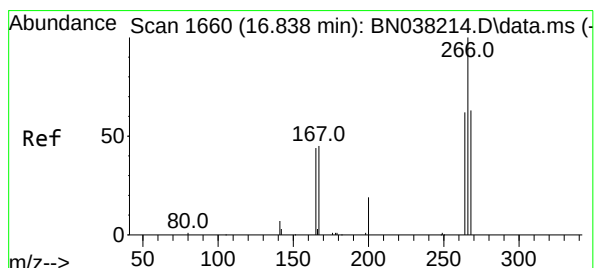
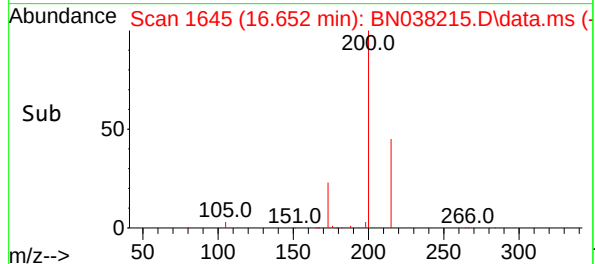
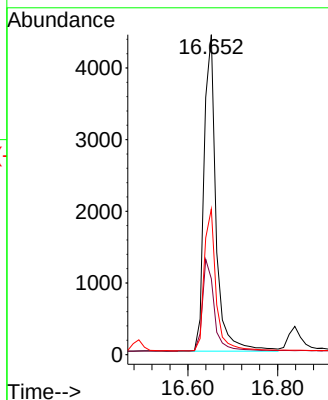
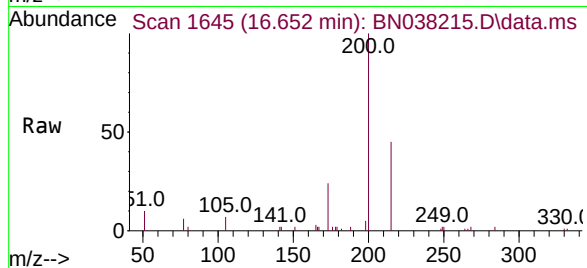




#23
Atrazine
Concen: 0.741 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

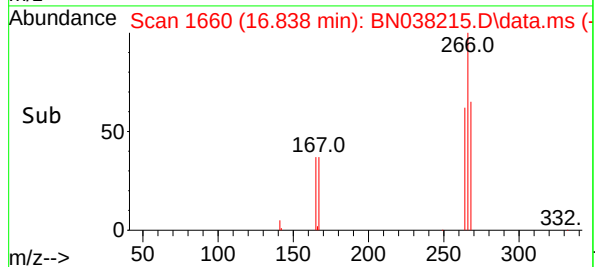
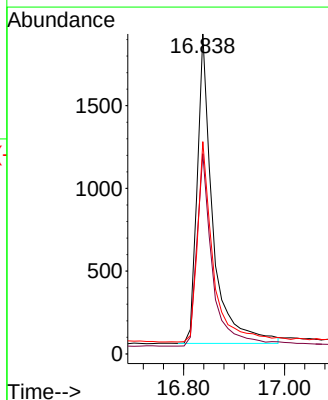
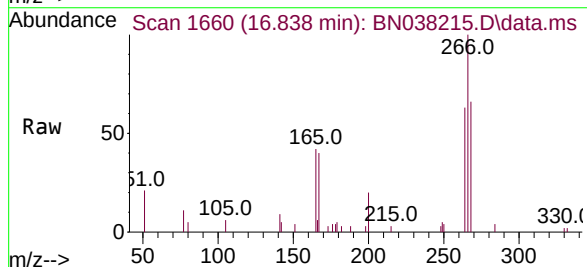
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

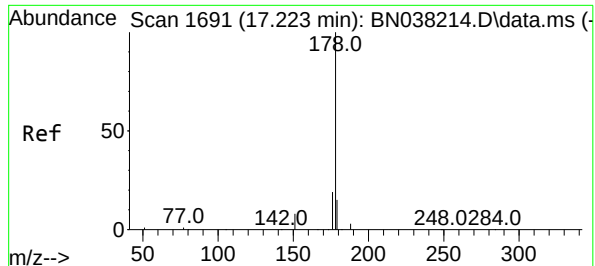
Tgt Ion	Ratio	Lower	Upper
200	100		
173	23.7	21.0	31.6
215	45.5	37.8	56.8



#24
Pentachlorophenol
Concen: 0.681 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	48.9	73.3
268	64.4	50.2	75.2

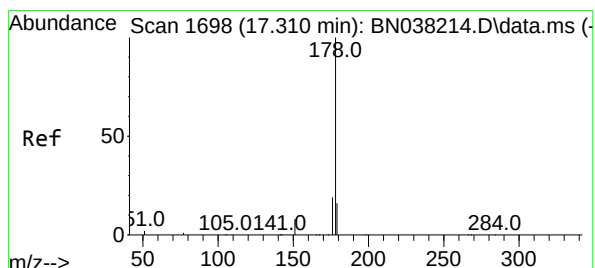
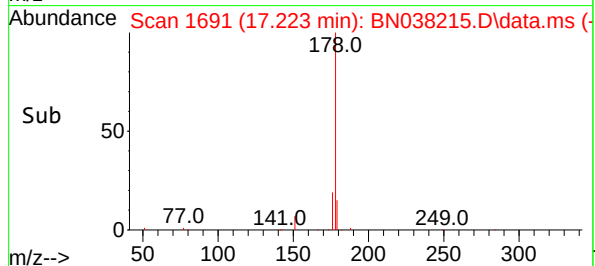
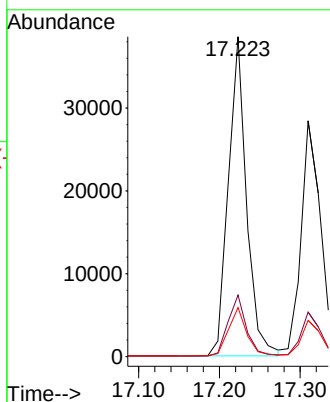
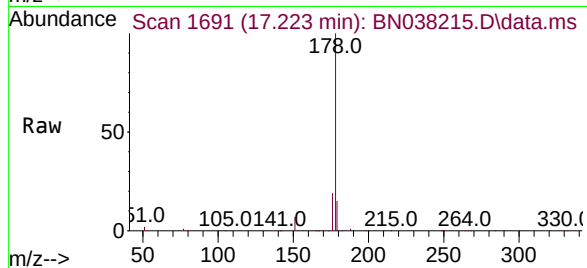




#25
Phenanthrene
Concen: 0.766 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

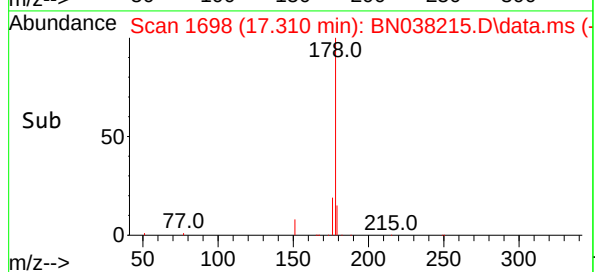
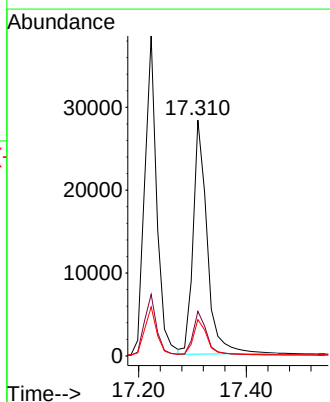
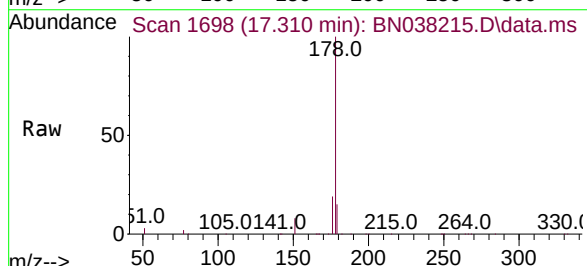
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

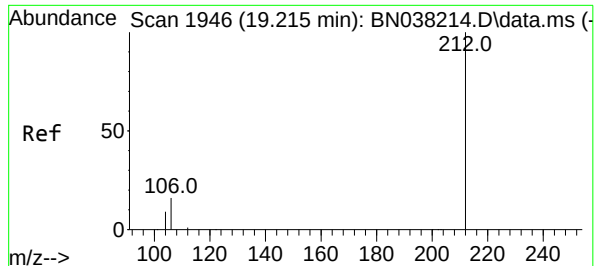
Tgt Ion:178 Resp: 60297
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.0 18.0



#26
Anthracene
Concen: 0.759 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:178 Resp: 50969
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.753 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

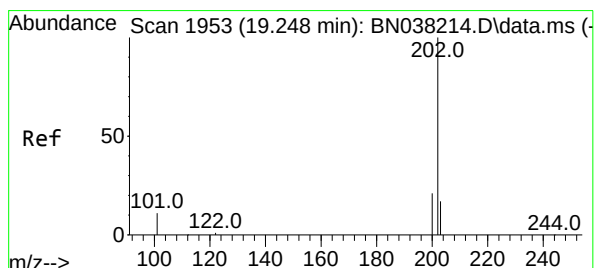
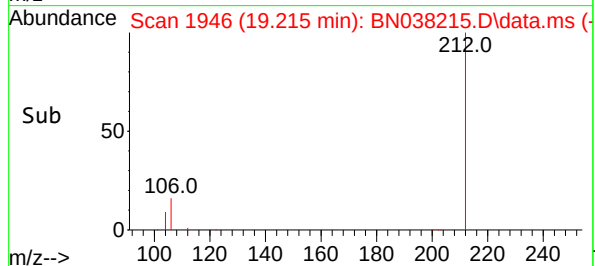
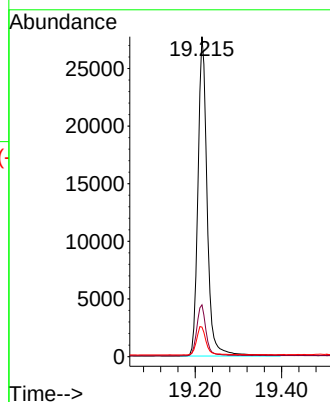
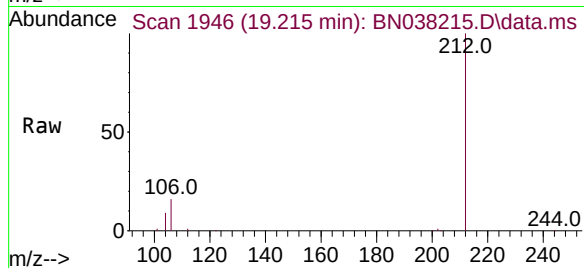
Tgt Ion:212 Resp: 40949

Ion Ratio Lower Upper

212 100

106 16.2 12.7 19.1

104 9.2 7.3 10.9



#28

Fluoranthene

Concen: 0.758 ng

RT: 19.248 min Scan# 1953

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

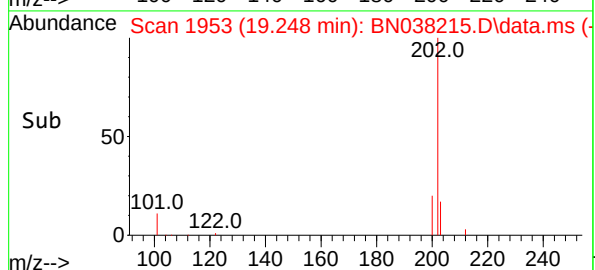
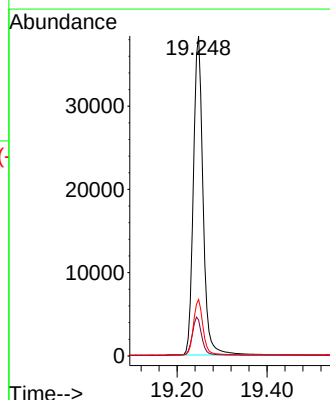
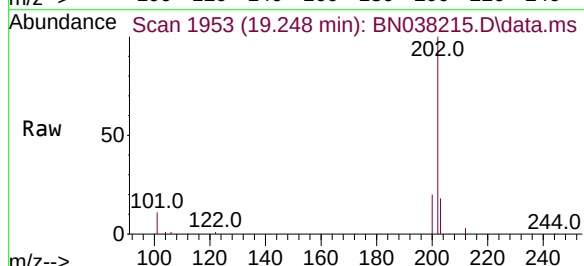
Tgt Ion:202 Resp: 57482

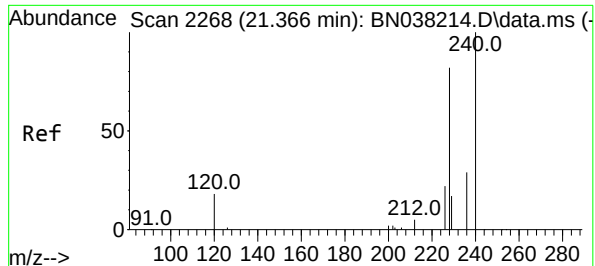
Ion Ratio Lower Upper

202 100

101 12.2 9.8 14.6

203 16.9 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

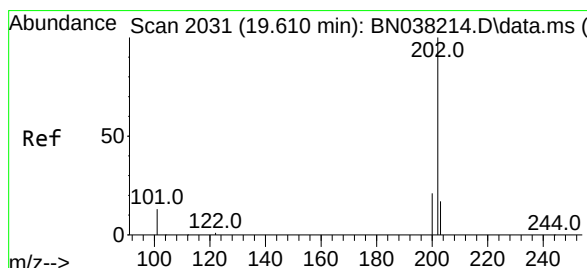
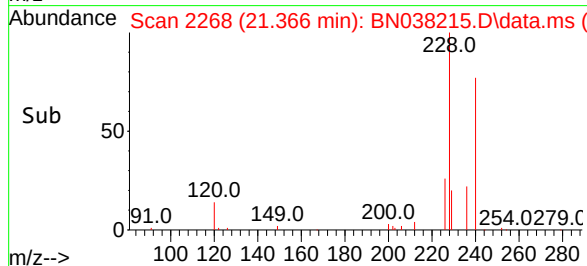
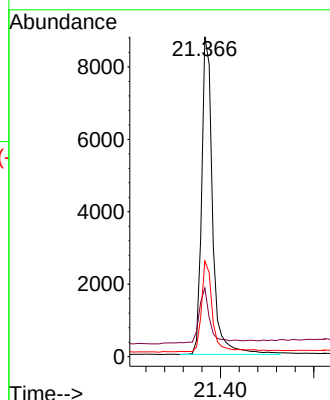
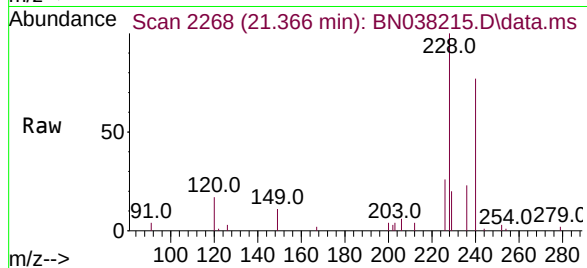
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 21.5 18.1 27.1

236 29.8 24.2 36.4



#30

Pyrene

Concen: 0.789 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

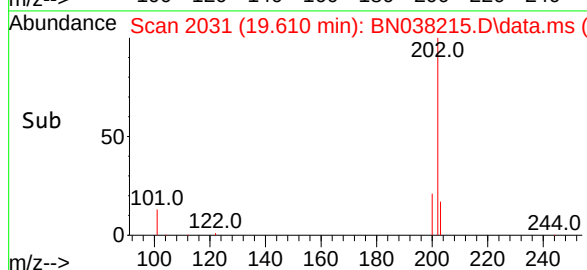
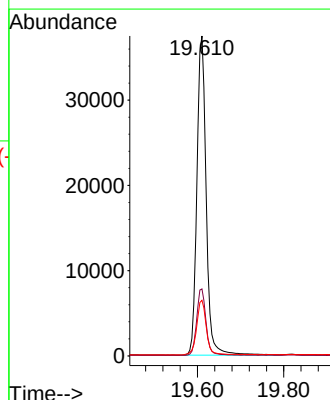
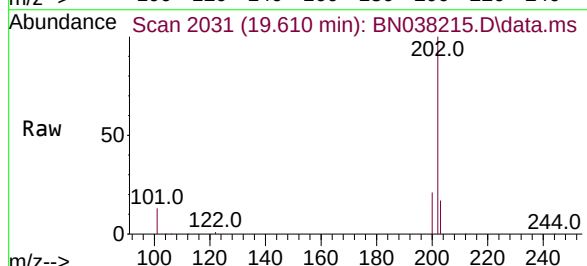
Tgt Ion:202 Resp: 56009

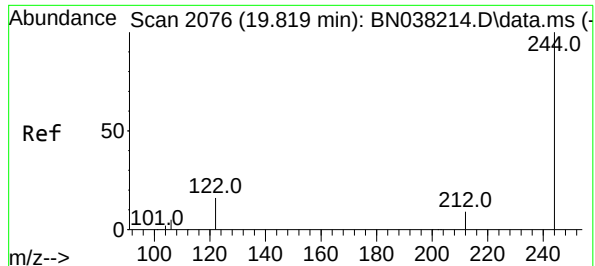
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.7 14.4 21.6

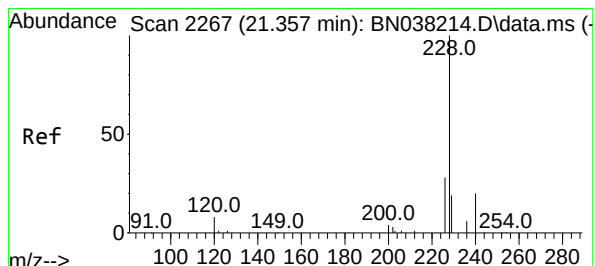
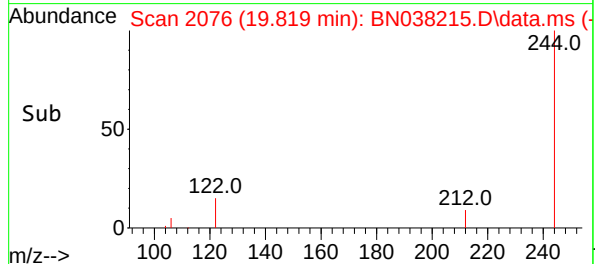
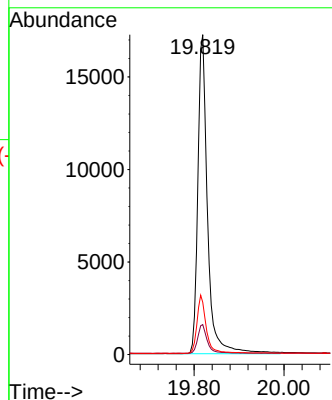
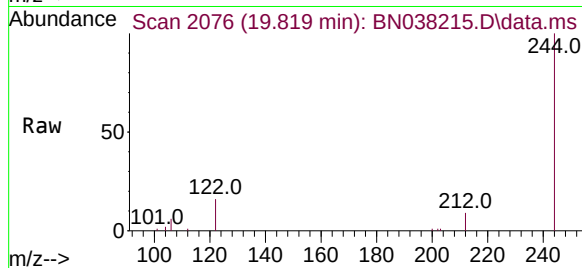




#31
Terphenyl-d14
Concen: 0.785 ng
RT: 19.819 min Scan# 2076
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

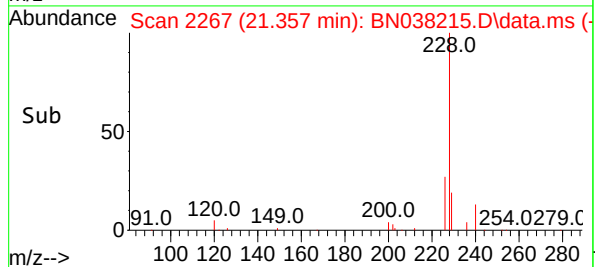
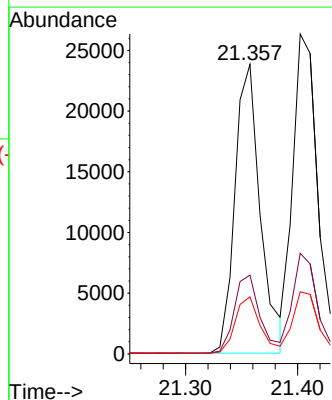
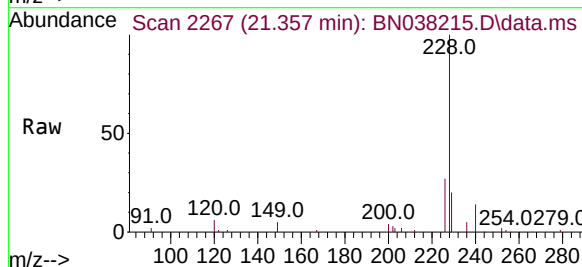
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

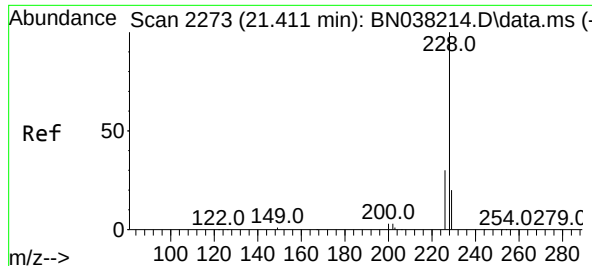
Tgt Ion:244 Resp: 25737
Ion Ratio Lower Upper
244 100
212 9.4 7.7 11.5
122 16.3 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.780 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:228 Resp: 37504
Ion Ratio Lower Upper
228 100
226 27.2 22.6 33.8
229 19.7 15.8 23.8





#33

Chrysene

Concen: 0.759 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

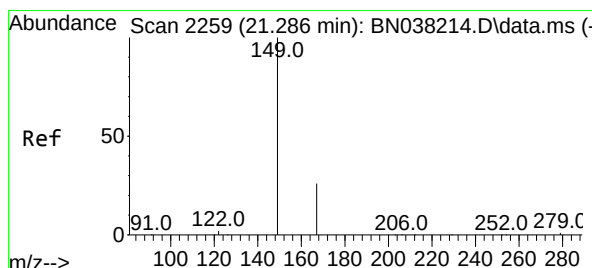
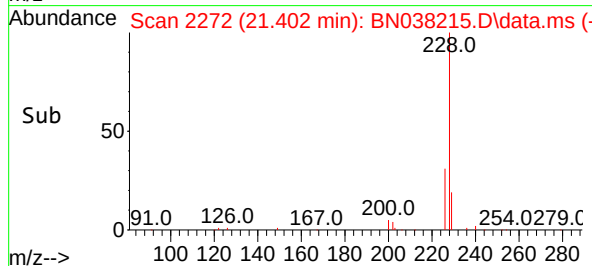
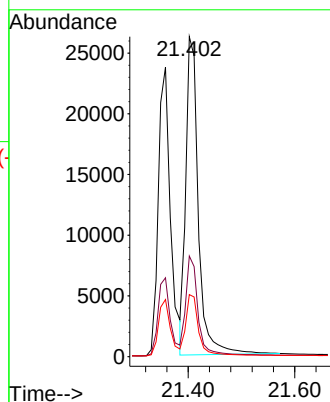
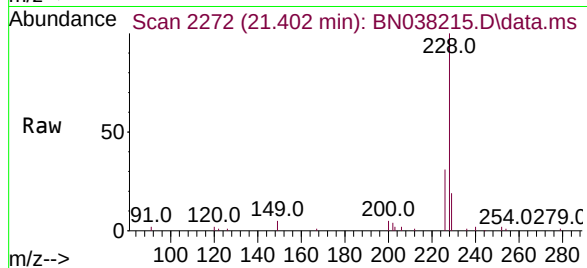
Tgt Ion:228 Resp: 43104

Ion Ratio Lower Upper

228 100

226 31.4 23.8 35.8

229 19.4 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.755 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

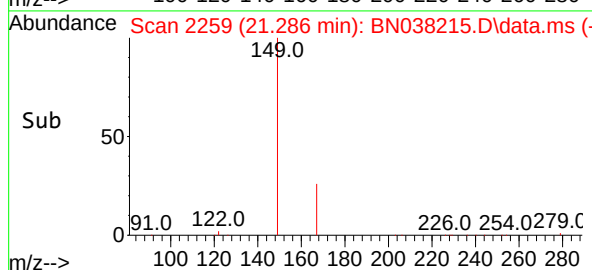
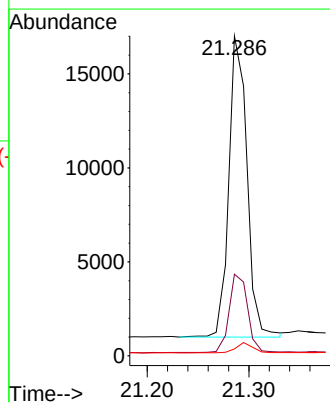
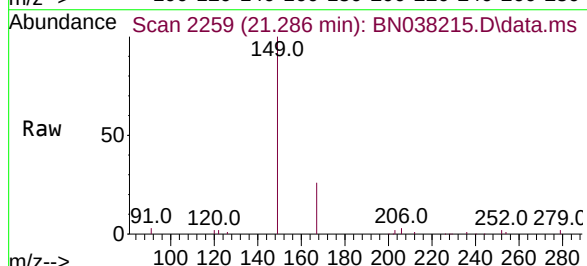
Tgt Ion:149 Resp: 19894

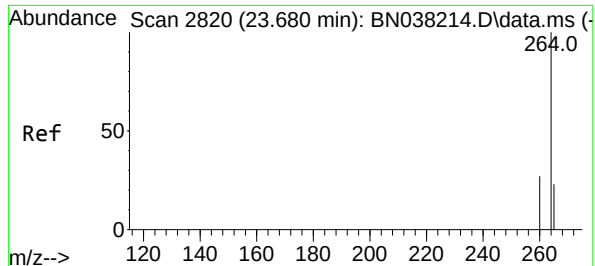
Ion Ratio Lower Upper

149 100

167 26.4 20.7 31.1

279 3.2 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.680 min Scan# 2820

Delta R.T. 0.000 min

Lab File: BN038215.D

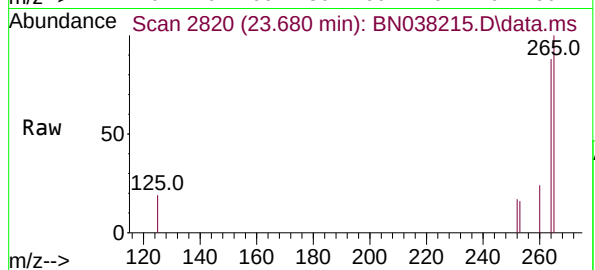
Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

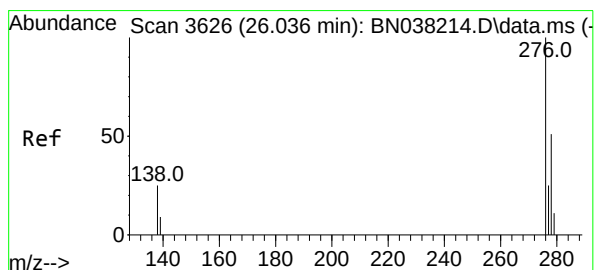
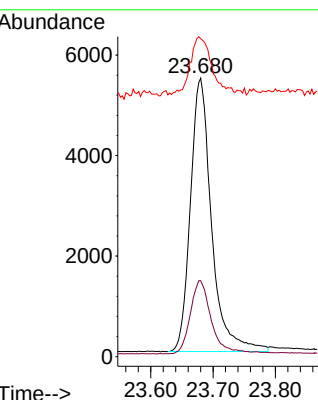
ClientSampleId :

SSTDICC0.8



Tgt Ion:264 Resp: 12837

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.7	32.5
265	114.1	98.0	147.0



#36

Indeno(1,2,3-cd)pyrene

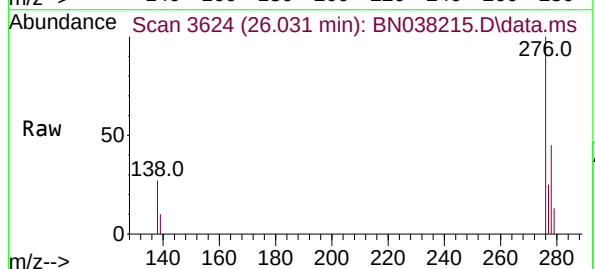
Concen: 0.750 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.006 min

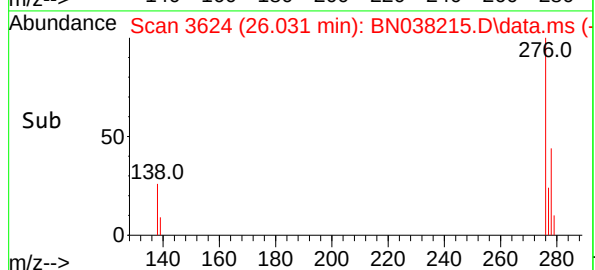
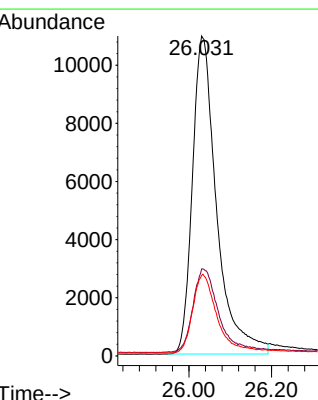
Lab File: BN038215.D

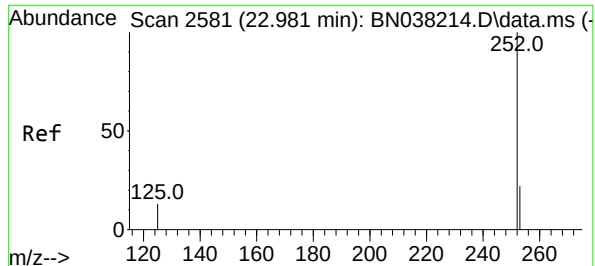
Acq: 26 Nov 2025 22:25



Tgt Ion:276 Resp: 44577

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.4	32.2
277	24.6	19.1	28.7





#37

Benzo(b)fluoranthene

Concen: 0.773 ng

RT: 22.981 min Scan# 2581

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

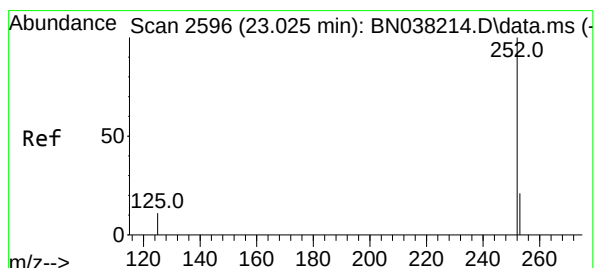
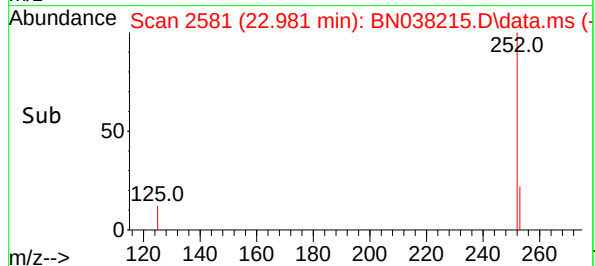
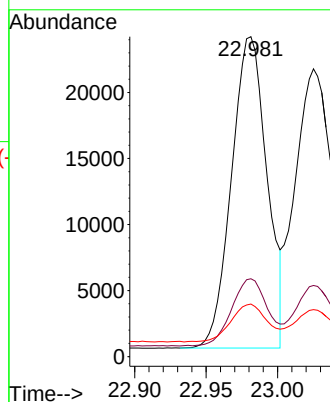
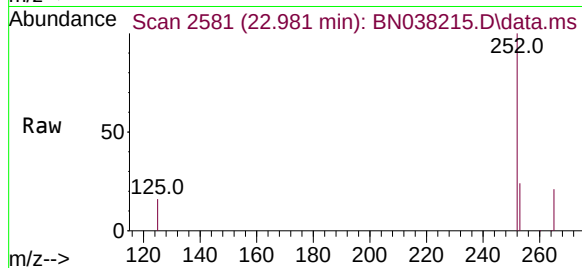
Tgt Ion:252 Resp: 40731

Ion Ratio Lower Upper

252 100

253 24.3 22.2 33.4

125 16.4 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 0.777 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

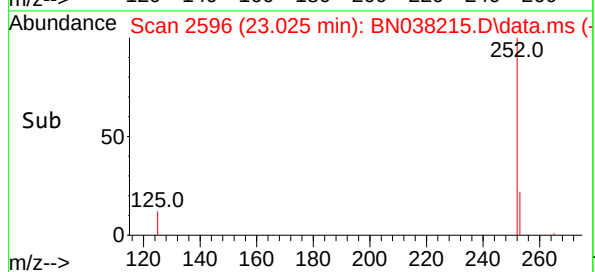
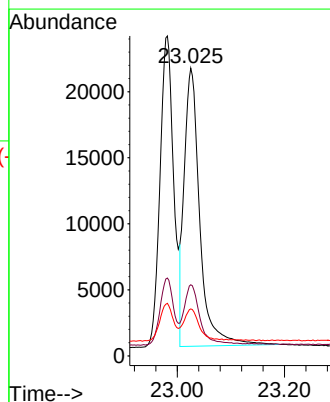
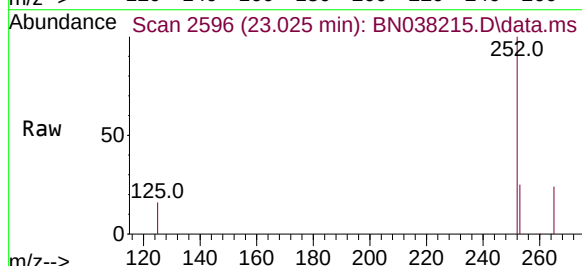
Tgt Ion:252 Resp: 42564

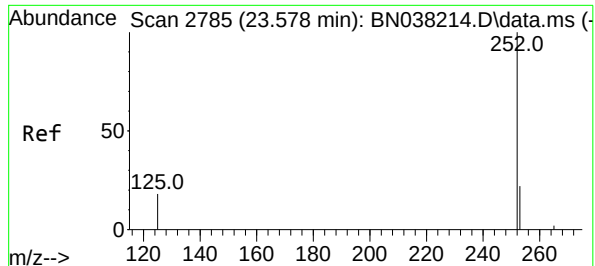
Ion Ratio Lower Upper

252 100

253 24.7 22.4 33.6

125 16.3 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 0.765 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038215.D

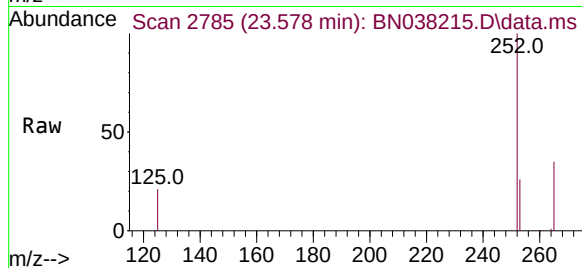
Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



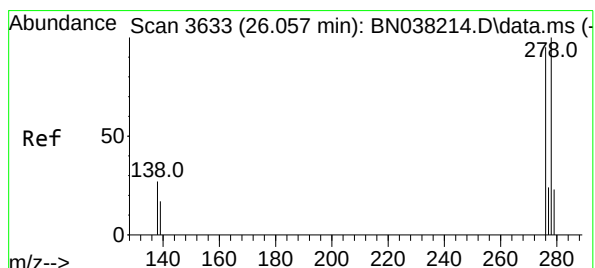
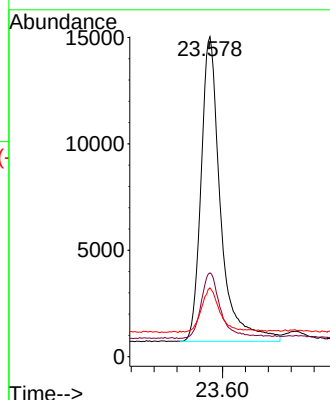
Tgt Ion:252 Resp: 33796

Ion Ratio Lower Upper

252 100

253 26.2 25.3 37.9

125 21.5 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 0.770 ng

RT: 26.054 min Scan# 3632

Delta R.T. -0.003 min

Lab File: BN038215.D

Acq: 26 Nov 2025 22:25

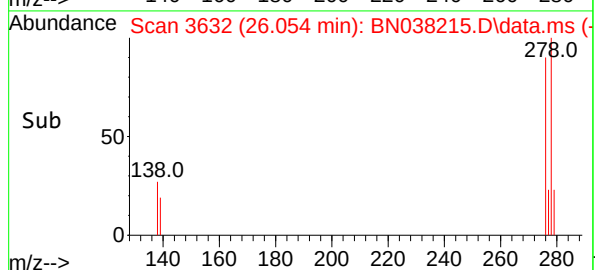
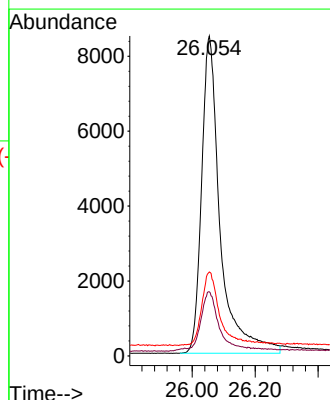
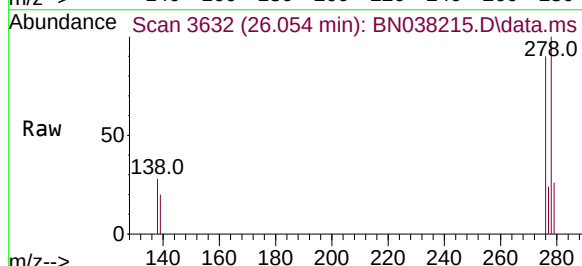
Tgt Ion:278 Resp: 34639

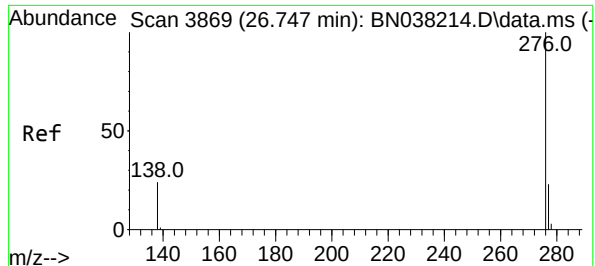
Ion Ratio Lower Upper

278 100

139 20.0 17.6 26.4

279 26.2 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.777 ng

RT: 26.744 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN038215.D

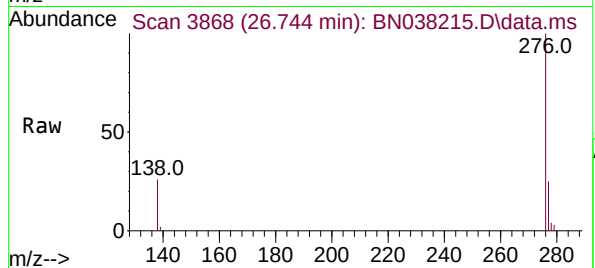
Acq: 26 Nov 2025 22:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



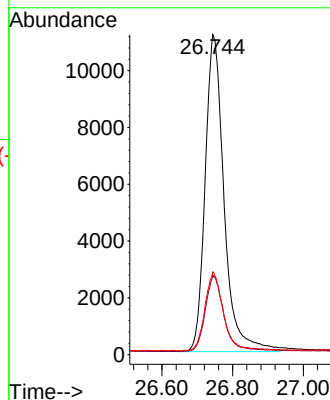
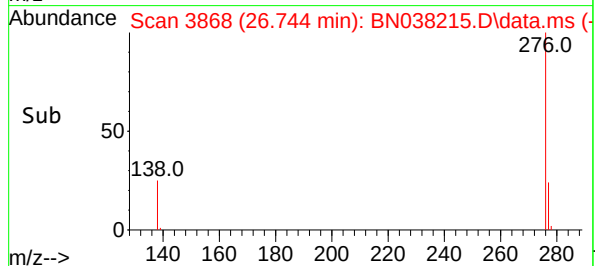
Tgt Ion:276 Resp: 41508

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 25.9 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038216.D
 Acq On : 26 Nov 2025 23:01
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Nov 28 20:55:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

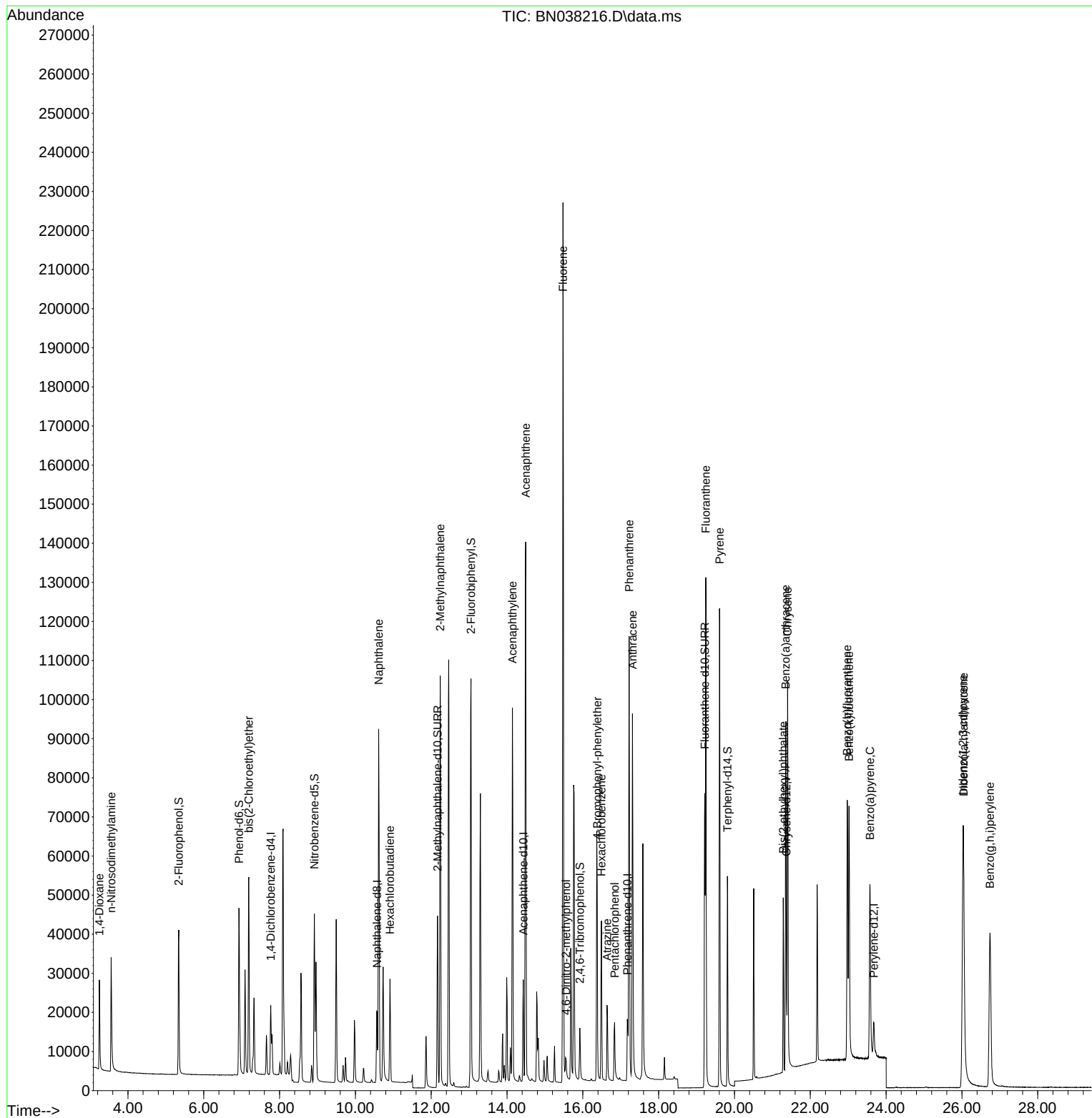
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8591	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	26479	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	14911	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	24353	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	14651	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	13162	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	31794	1.583	ng	0.00
5) Phenol-d6	6.930	99	40785	1.626	ng	0.00
8) Nitrobenzene-d5	8.918	82	34007	1.606	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	61892	1.647	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	8291	1.767	ng	-0.01
15) 2-Fluorobiphenyl	13.051	172	94112	1.634	ng	0.00
27) Fluoranthene-d10	19.215	212	84152	1.593	ng	0.00
31) Terphenyl-d14	19.815	244	54297	1.605	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	14538	1.606	ng	98
3) n-Nitrosodimethylamine	3.557	42	18433	1.652	ng	# 98
6) bis(2-Chloroethyl)ether	7.190	93	39573	1.648	ng	98
9) Naphthalene	10.616	128	118421	1.611	ng	99
10) Hexachlorobutadiene	10.915	225	19920	1.593	ng	# 99
12) 2-Methylnaphthalene	12.238	142	79894	1.651	ng	99
16) Acenaphthylene	14.142	152	109170	1.637	ng	100
17) Acenaphthene	14.494	154	75326	1.621	ng	99
18) Fluorene	15.478	166	100208	1.665	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	4296	1.621	ng	# 7
21) 4-Bromophenyl-phenylether	16.379	248	27977	1.658	ng	# 92
22) Hexachlorobenzene	16.491	284	32866	1.584	ng	99
23) Atrazine	16.640	200	17617	1.635	ng	# 91
24) Pentachlorophenol	16.838	266	9380	1.650	ng	98
25) Phenanthrene	17.223	178	123735	1.619	ng	100
26) Anthracene	17.310	178	107108	1.642	ng	100
28) Fluoranthene	19.243	202	119828	1.626	ng	100
30) Pyrene	19.606	202	115630	1.580	ng	100
32) Benzo(a)anthracene	21.349	228	80458	1.622	ng	99
33) Chrysene	21.402	228	93587	1.598	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	39988	1.472	ng	99
36) Indeno(1,2,3-cd)pyrene	26.028	276	103317	1.696	ng	99
37) Benzo(b)fluoranthene	22.975	252	88199	1.633	ng	# 87
38) Benzo(k)fluoranthene	23.022	252	92066	1.639	ng	# 87
39) Benzo(a)pyrene	23.572	252	73851	1.631	ng	# 80
40) Dibenzo(a,h)anthracene	26.042	278	79584	1.726	ng	92
41) Benzo(g,h,i)perylene	26.741	276	90531	1.652	ng	97

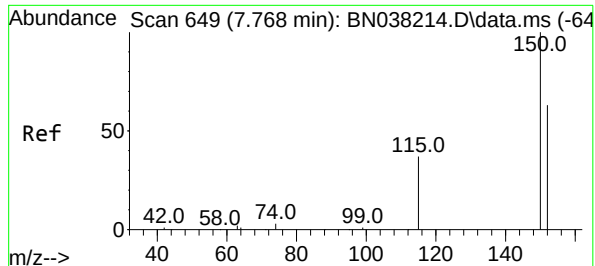
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038216.D
Acq On : 26 Nov 2025 23:01
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 28 20:55:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

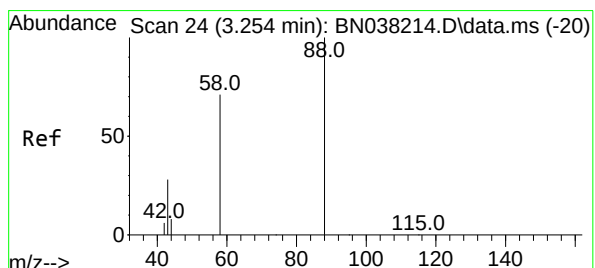
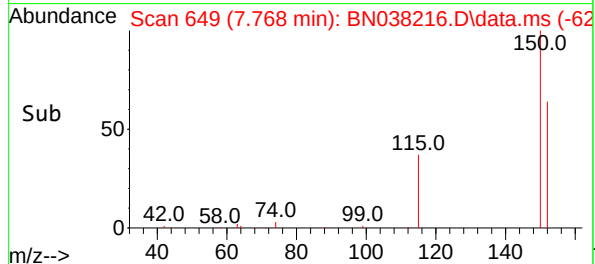
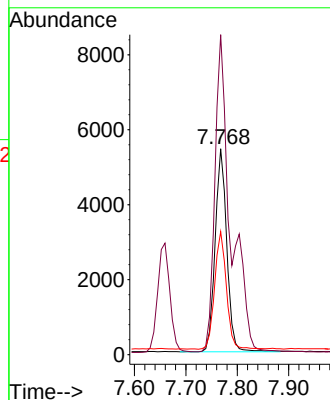
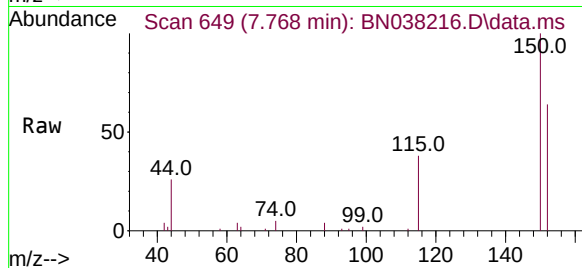




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

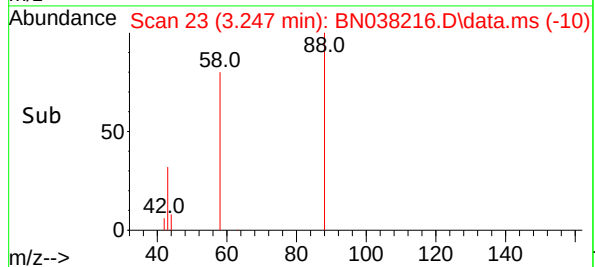
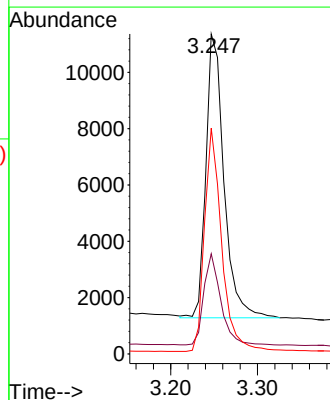
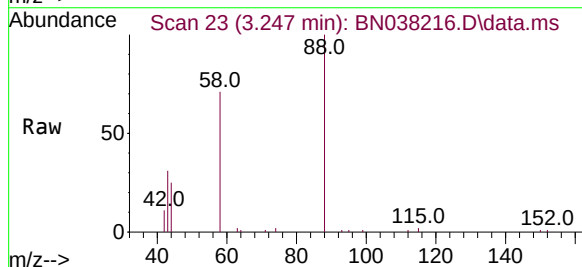
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

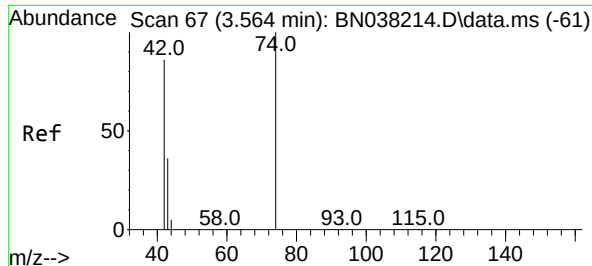
Tgt Ion:152 Resp: 8591
Ion Ratio Lower Upper
152 100
150 155.4 125.3 187.9
115 59.7 49.0 73.4



#2
1,4-Dioxane
Concen: 1.606 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 88 Resp: 14538
Ion Ratio Lower Upper
88 100
43 30.3 24.8 37.2
58 74.7 61.1 91.7

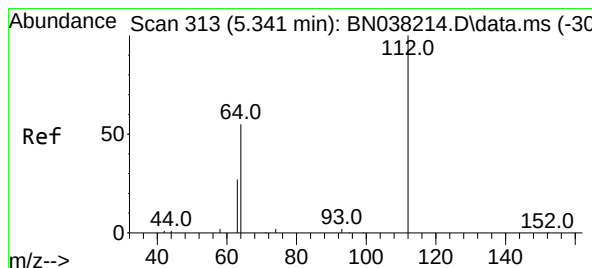
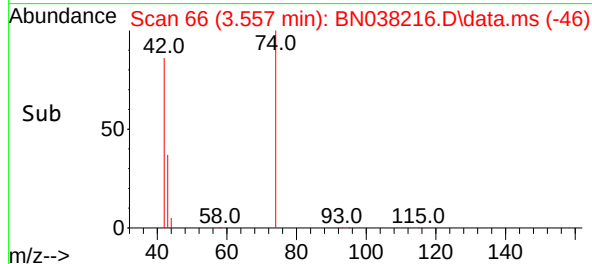
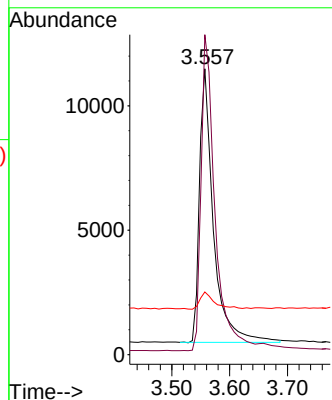
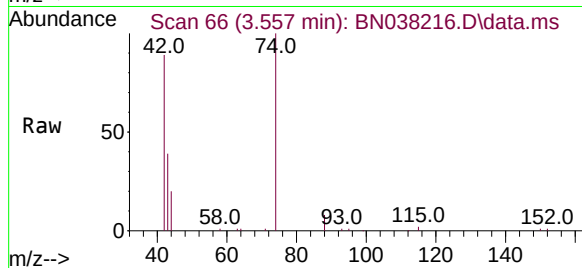




#3
n-Nitrosodimethylamine
Concen: 1.652 ng
RT: 3.557 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

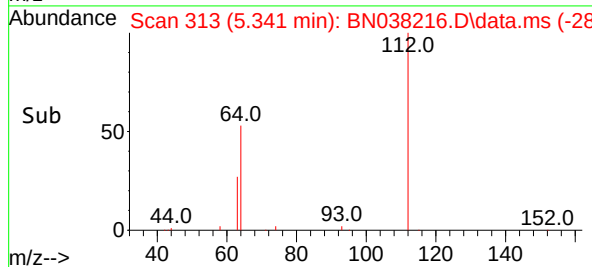
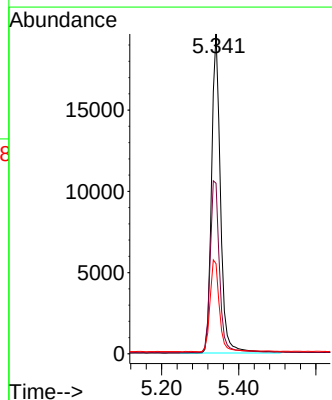
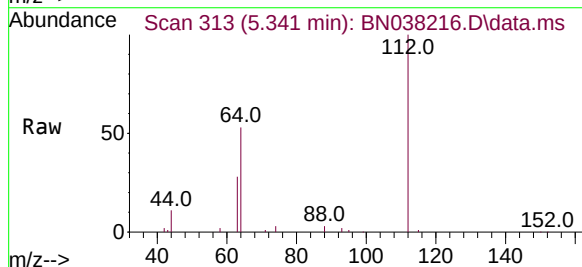
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ClientSampleId :
SSTDICC1.6

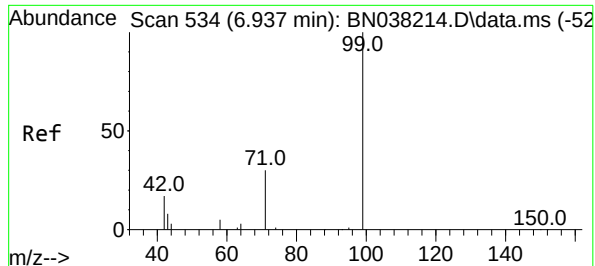
Tgt Ion: 42 Resp: 18433
Ion Ratio Lower Upper
42 100
74 118.4 96.2 144.2
44 6.4 8.0 12.0#



#4
2-Fluorophenol
Concen: 1.583 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 112 Resp: 31794
Ion Ratio Lower Upper
112 100
64 56.7 45.0 67.4
63 30.0 23.2 34.8

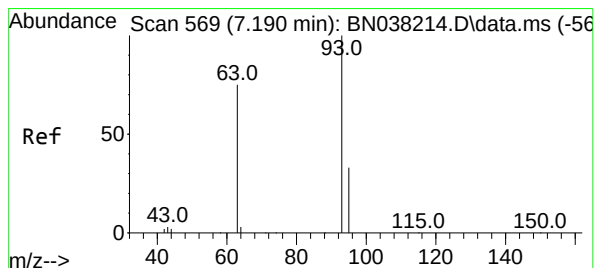
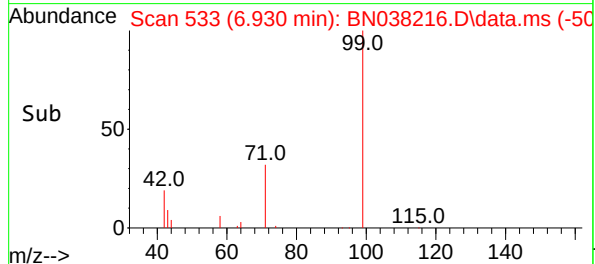
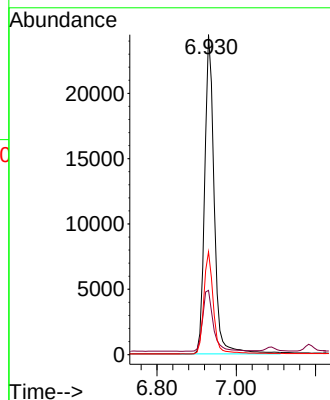
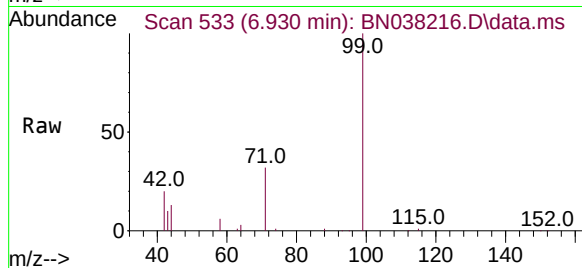




#5
Phenol-d6
Concen: 1.626 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

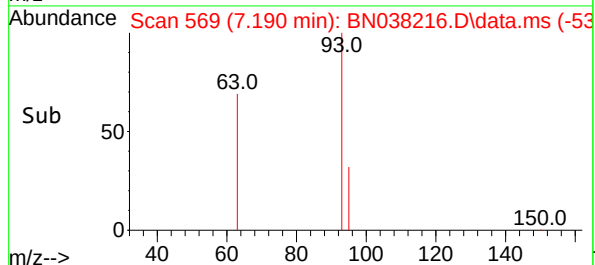
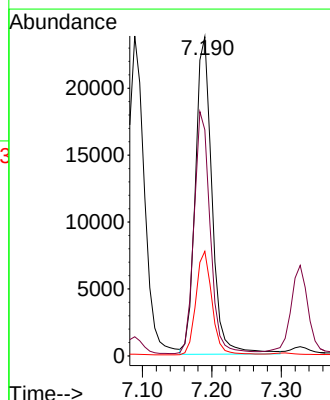
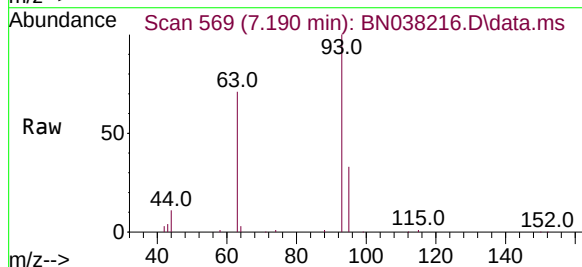
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

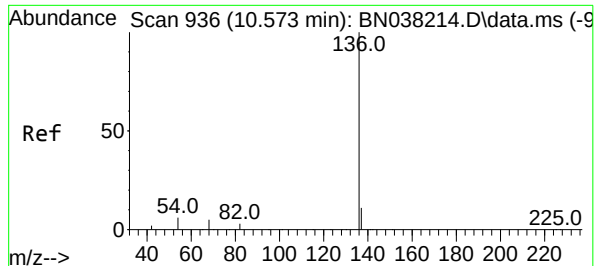
Tgt Ion: 99 Resp: 40785
Ion Ratio Lower Upper
99 100
42 21.1 17.0 25.6
71 32.3 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 1.648 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 93 Resp: 39573
Ion Ratio Lower Upper
93 100
63 74.3 58.1 87.1
95 31.7 25.1 37.7

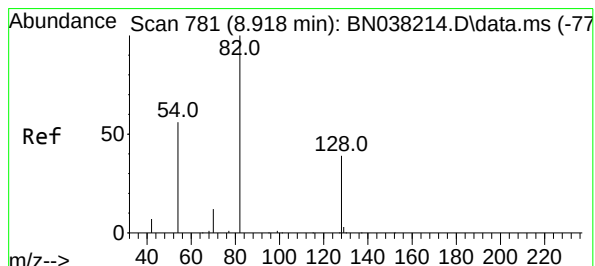
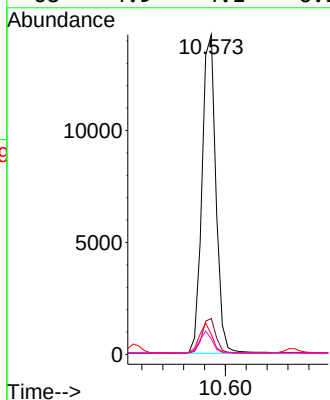
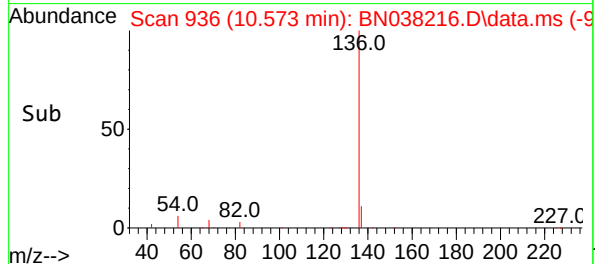
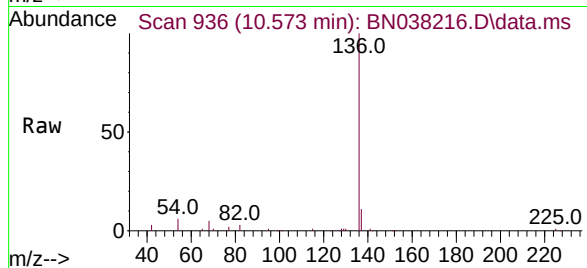




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

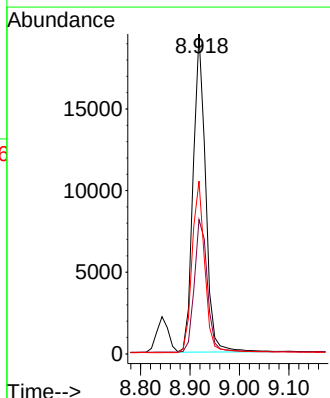
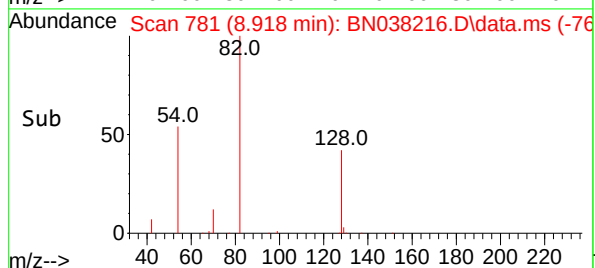
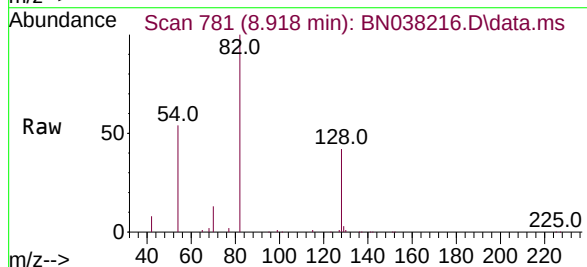
Instrument :
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ClientSampleId :
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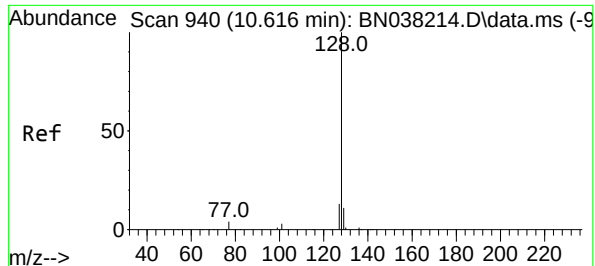
Tgt Ion:	136	Resp:	26479
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	6.3	5.4	8.0
68	4.9	4.1	6.1



#8
Nitrobenzene-d5
Concen: 1.606 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:	82	Resp:	34007
Ion	Ratio	Lower	Upper
82	100		
128	42.0	32.6	48.8
54	54.0	45.4	68.0

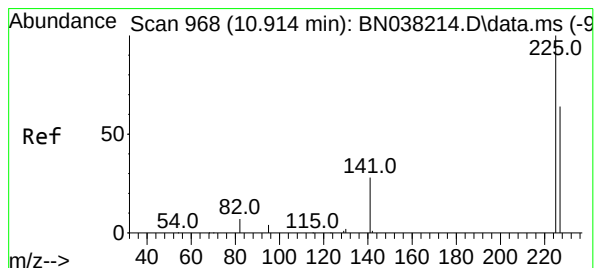
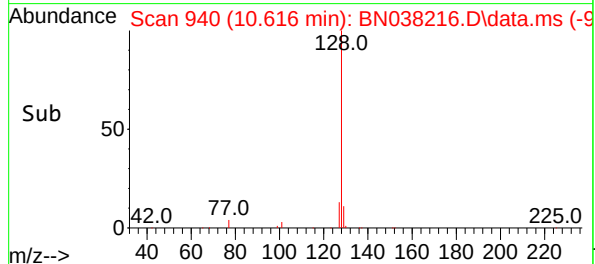
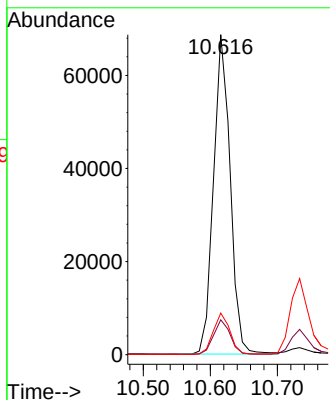
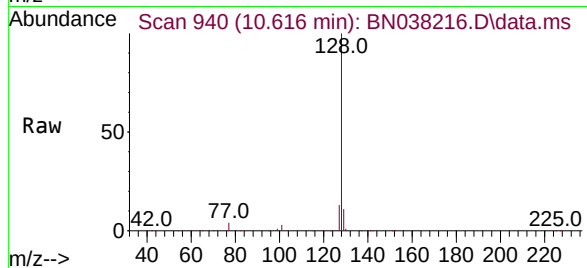




#9
Naphthalene
Concen: 1.611 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

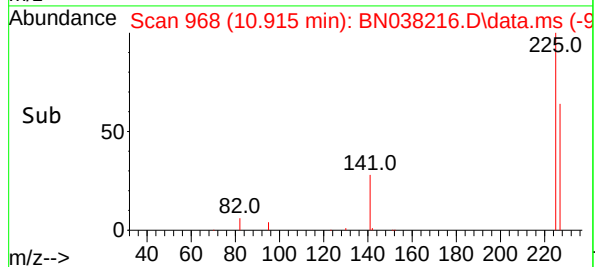
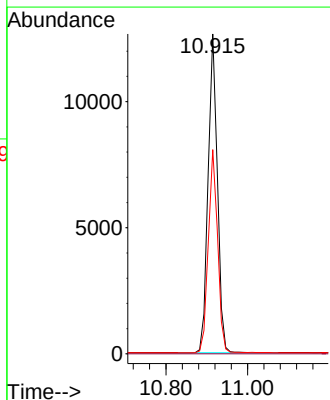
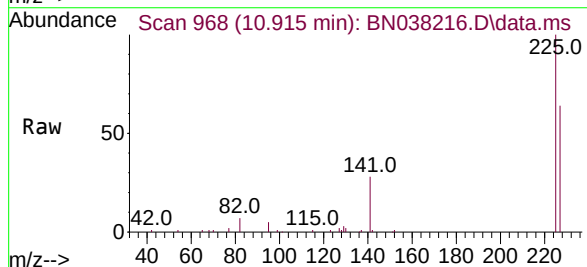
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

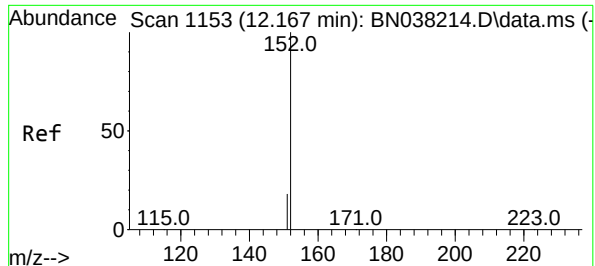
Tgt Ion:128 Resp: 118421
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.0 10.6 16.0



#10
Hexachlorobutadiene
Concen: 1.593 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:225 Resp: 19920
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.5 75.7

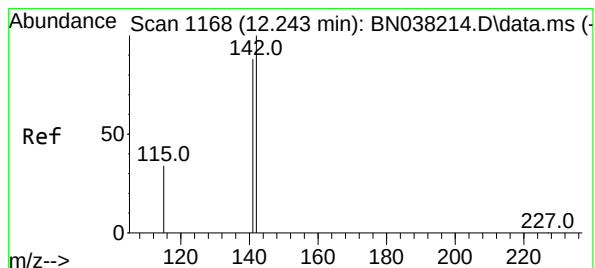
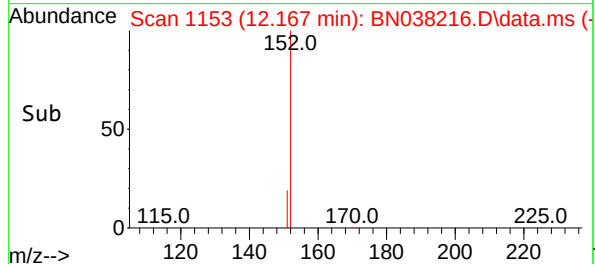
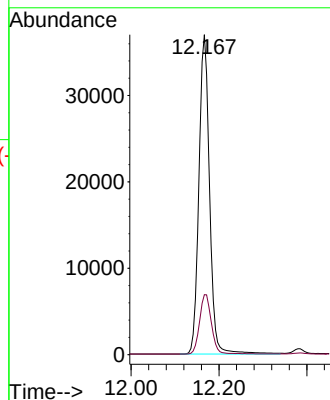
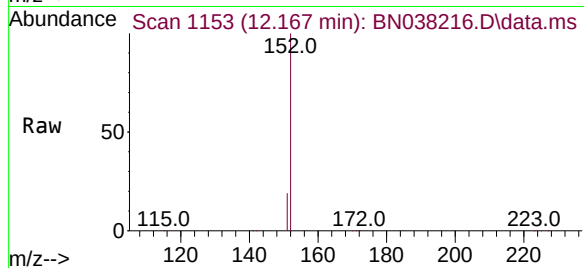




#11
2-Methylnaphthalene-d10
Concen: 1.647 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

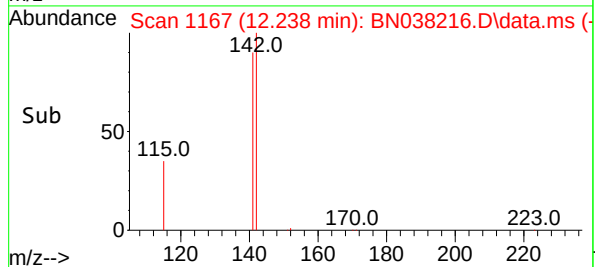
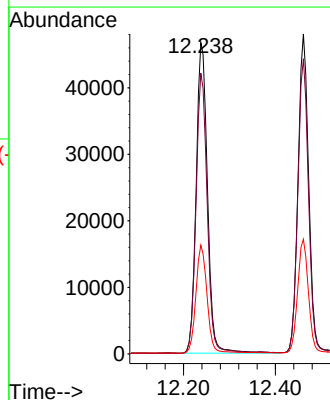
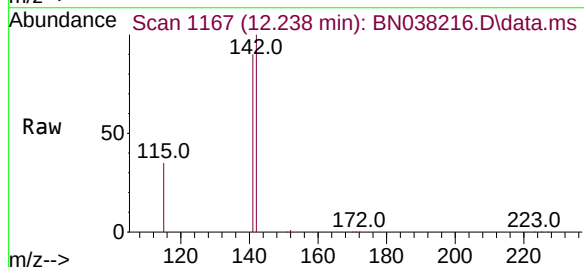
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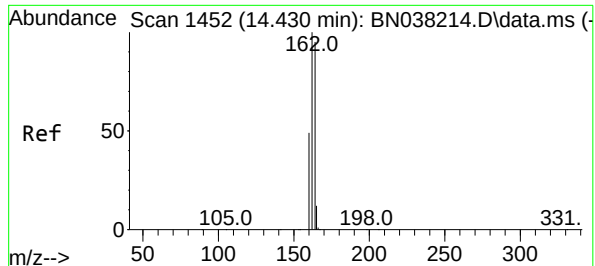
Tgt Ion:152 Resp: 61892
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:142 Resp: 79894
Ion Ratio Lower Upper
142 100
141 90.2 70.9 106.3
115 35.0 27.7 41.5

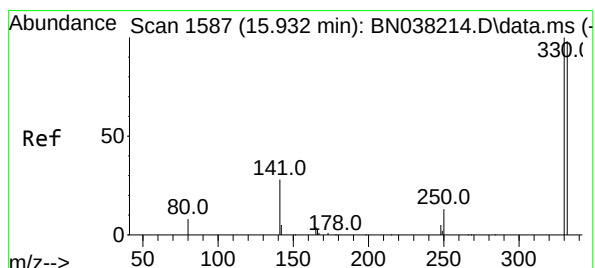
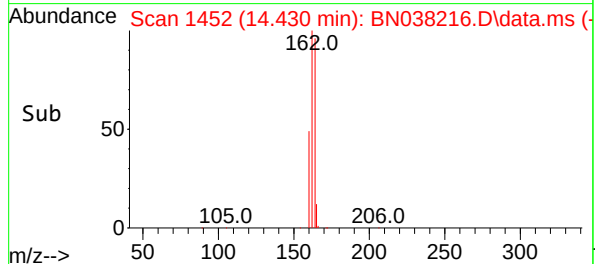
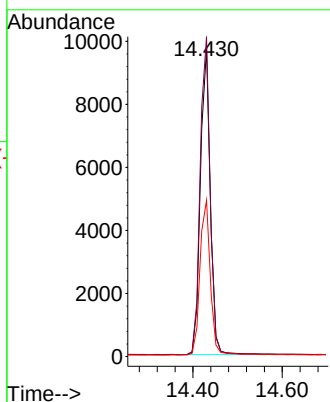
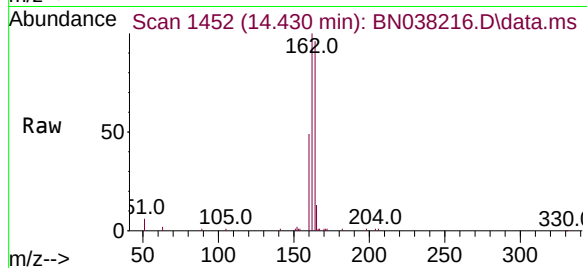




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

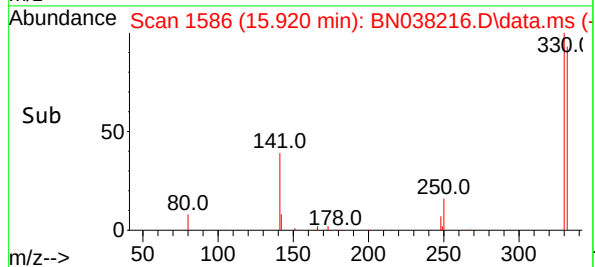
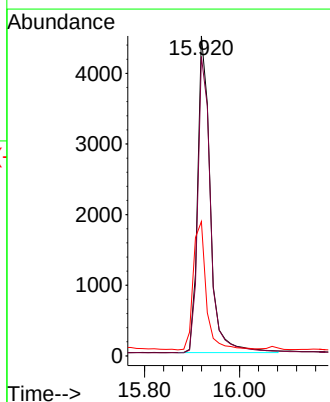
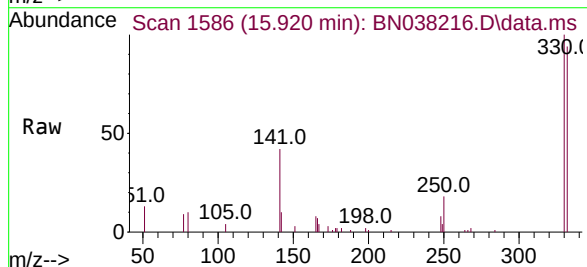
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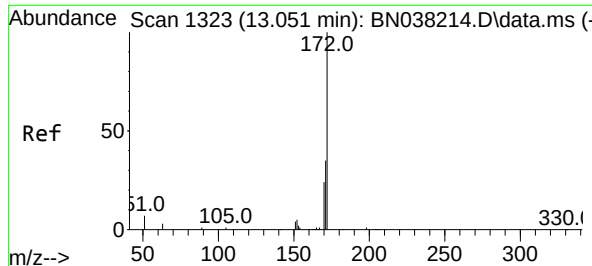
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.8	125.8
160	50.8	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 1.767 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.8	116.6
141	41.6	33.0	49.4

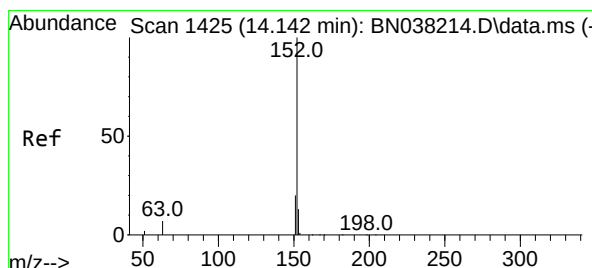
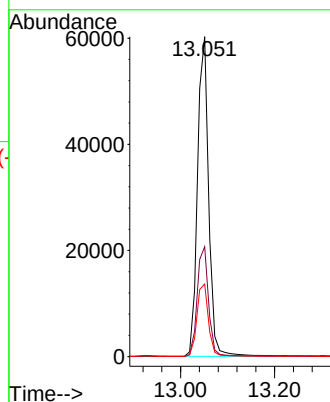
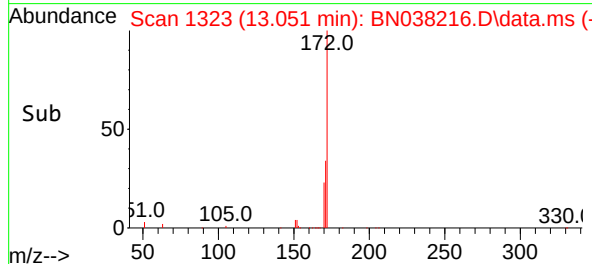
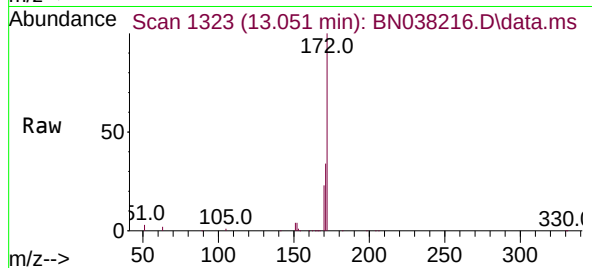




#15
2-Fluorobiphenyl
Concen: 1.634 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

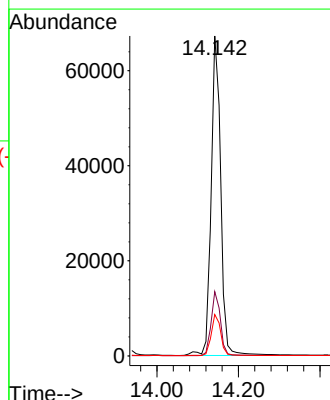
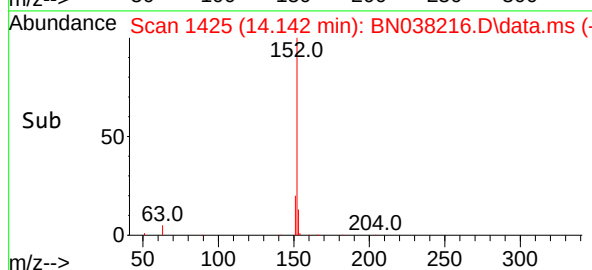
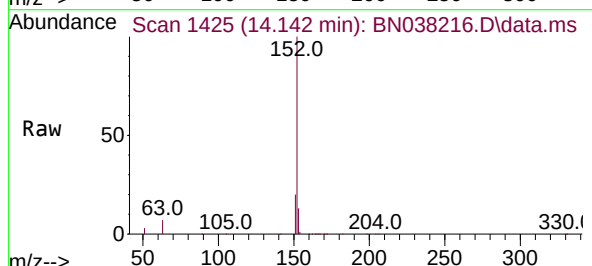
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

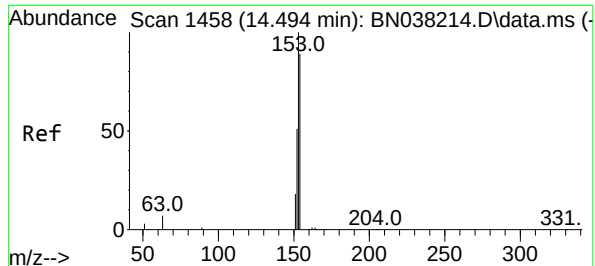
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.1	42.1
170	22.7	19.1	28.7



#16
Acenaphthylene
Concen: 1.637 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	12.9	10.6	15.8

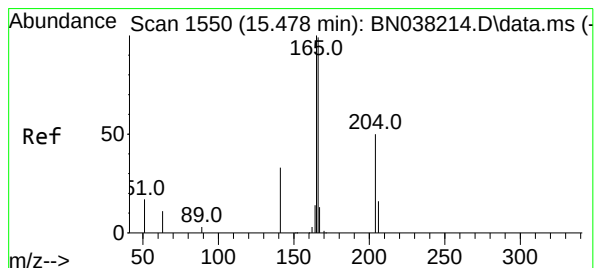
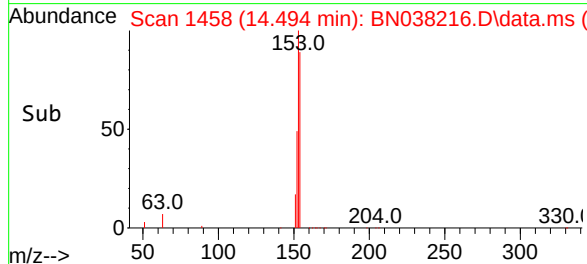
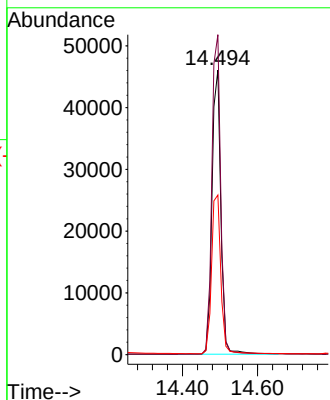
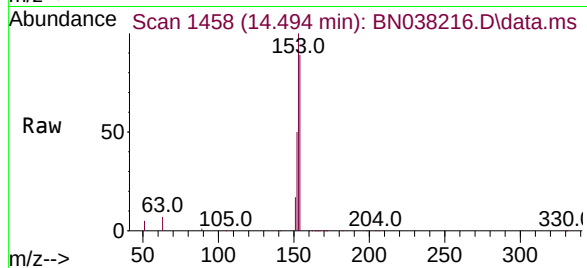




#17
Acenaphthene
Concen: 1.621 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

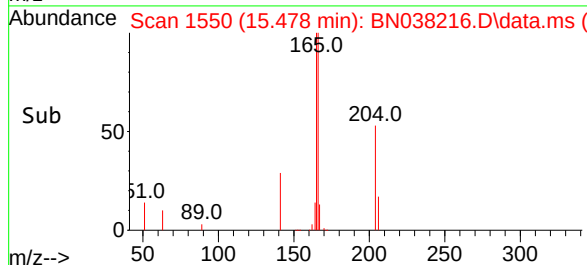
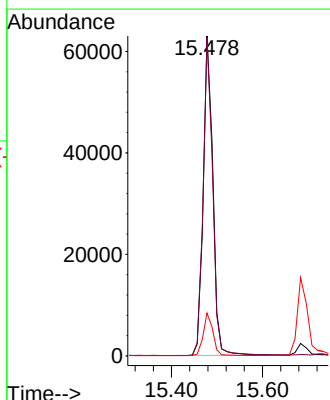
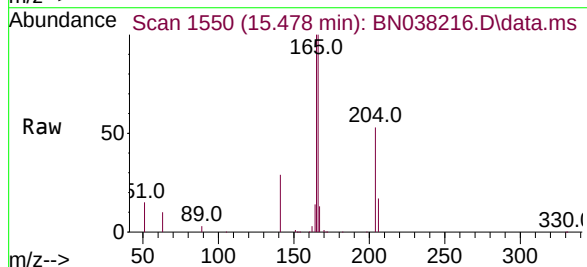
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

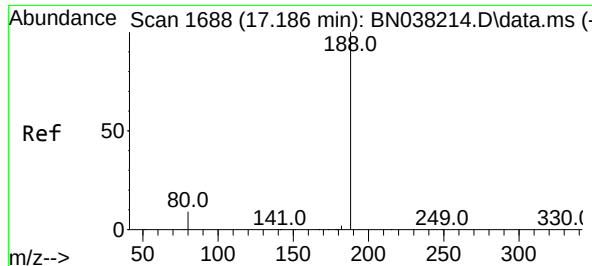
Tgt Ion:154 Resp: 75326
Ion Ratio Lower Upper
154 100
153 113.1 91.1 136.7
152 58.4 48.2 72.2



#18
Fluorene
Concen: 1.665 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:166 Resp: 100208
Ion Ratio Lower Upper
166 100
165 99.0 78.7 118.1
167 13.2 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

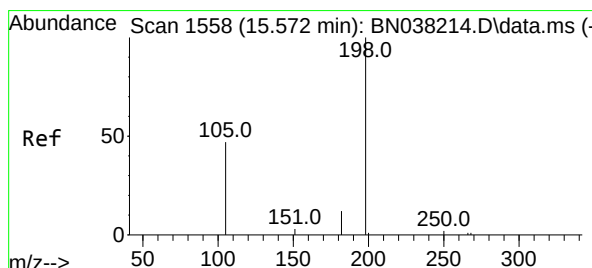
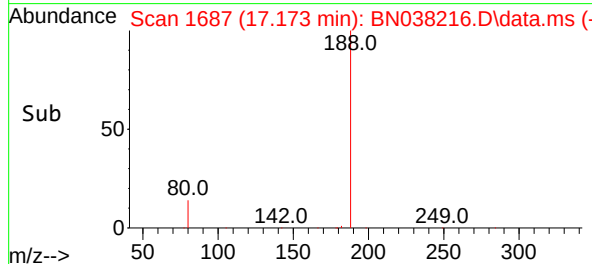
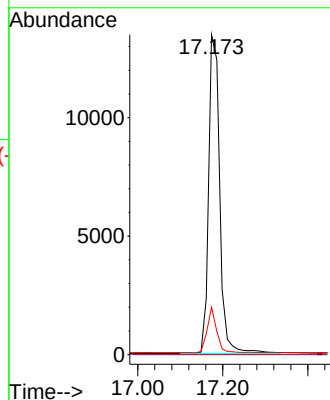
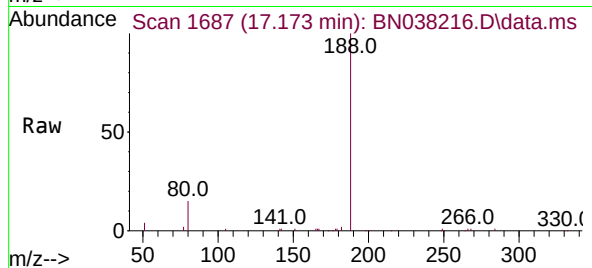
Tgt Ion:188 Resp: 24353

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.621 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

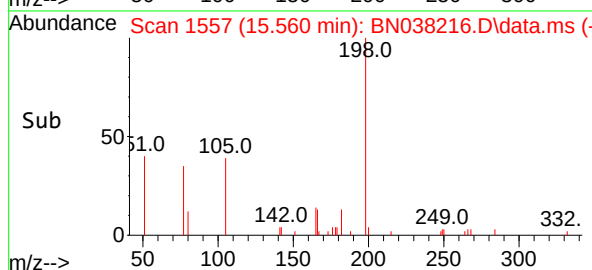
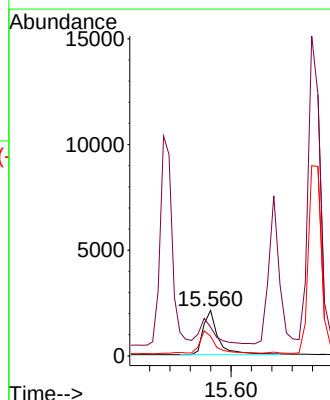
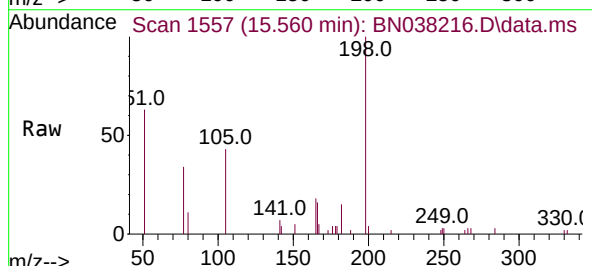
Tgt Ion:198 Resp: 4296

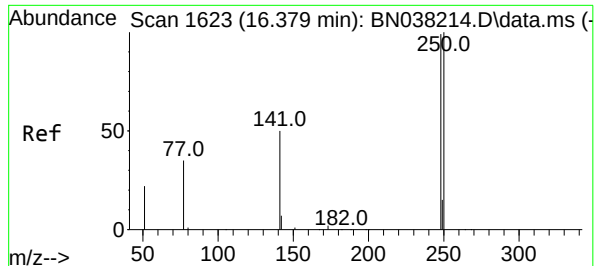
Ion Ratio Lower Upper

198 100

51 63.2 205.1 307.7#

105 42.9 61.6 92.4#

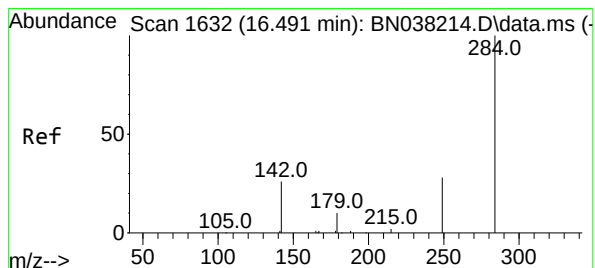
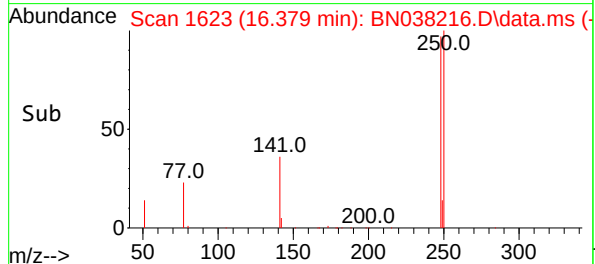
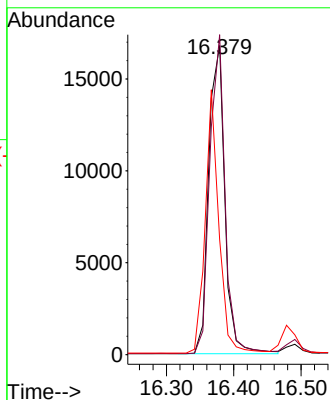
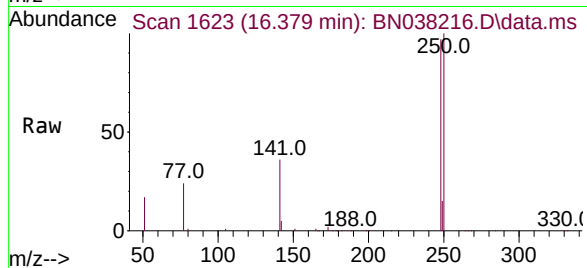




#21
4-Bromophenyl-phenylether
Concen: 1.658 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

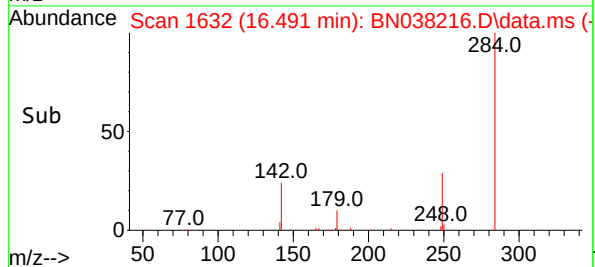
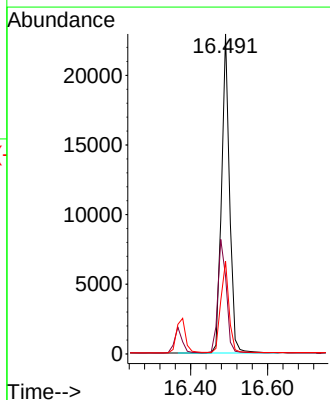
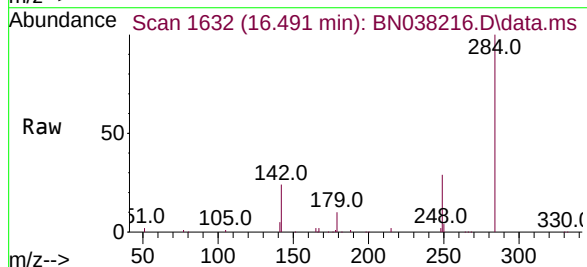
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

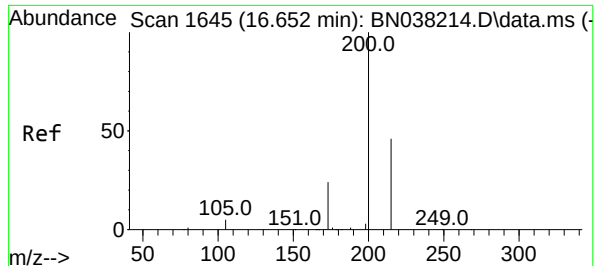
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.6	80.8	121.2
141	37.3	41.0	61.6#



#22
Hexachlorobenzene
Concen: 1.584 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.7	30.5	45.7
249	29.6	23.8	35.8

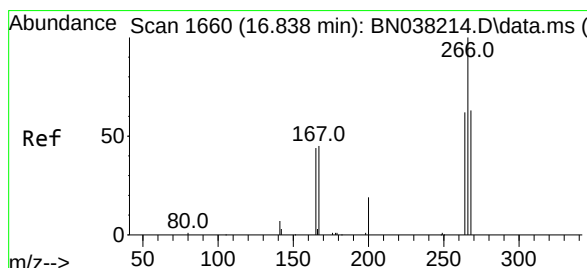
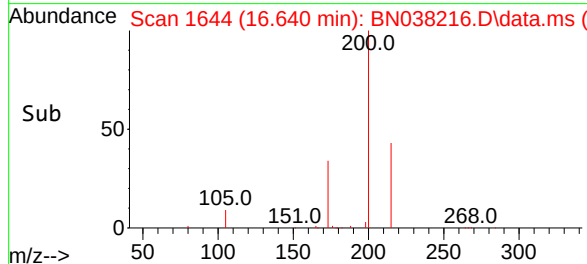
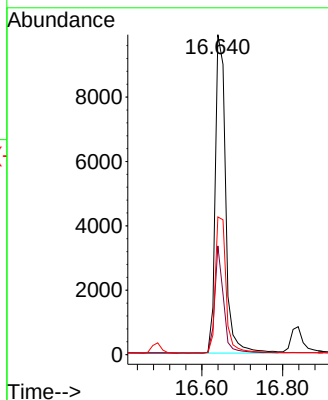
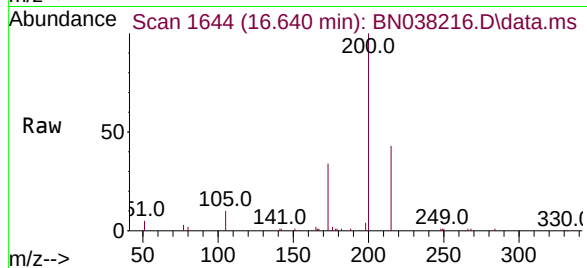




#23
Atrazine
Concen: 1.635 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

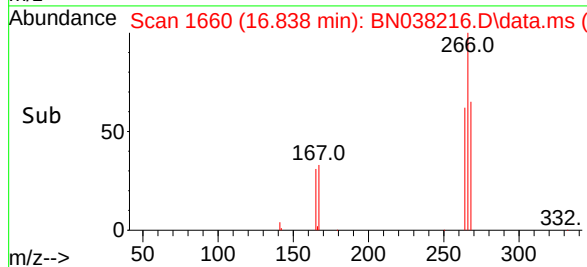
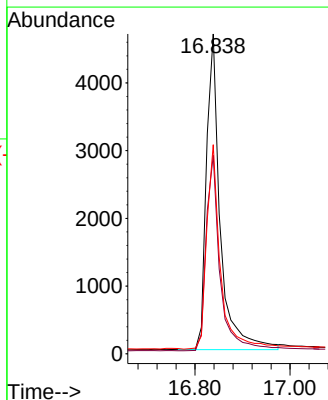
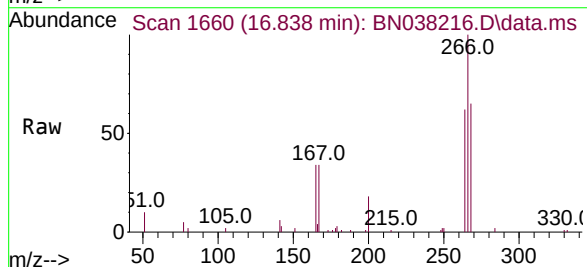
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

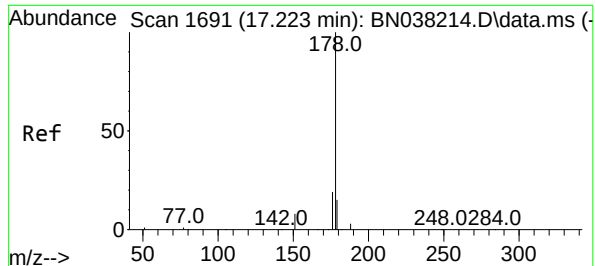
Tgt Ion:200 Resp: 17617
Ion Ratio Lower Upper
200 100
173 34.0 21.0 31.6#
215 43.0 37.8 56.8



#24
Pentachlorophenol
Concen: 1.650 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:266 Resp: 9380
Ion Ratio Lower Upper
266 100
264 62.1 48.9 73.3
268 64.2 50.2 75.2

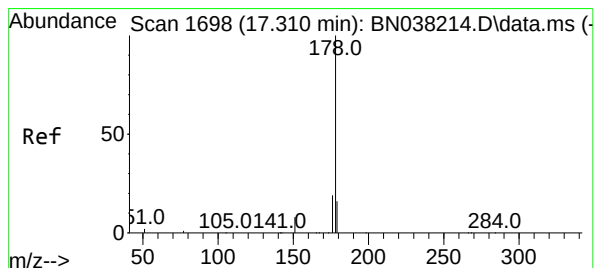
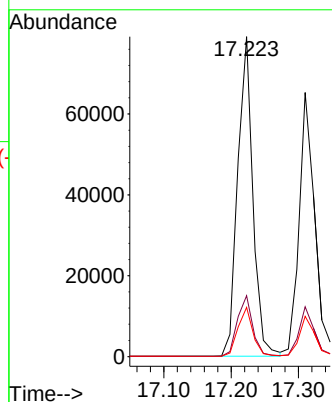
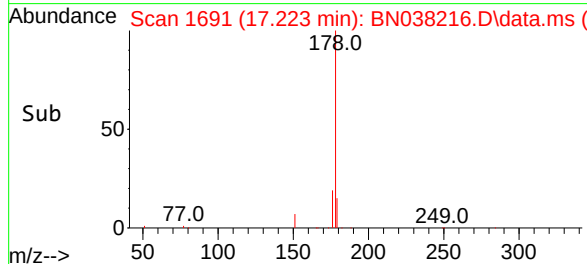
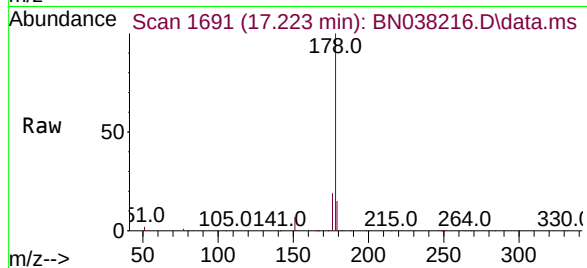




#25
Phenanthrene
Concen: 1.619 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

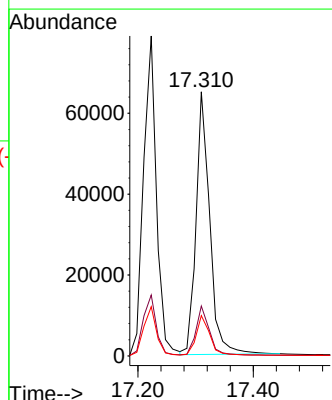
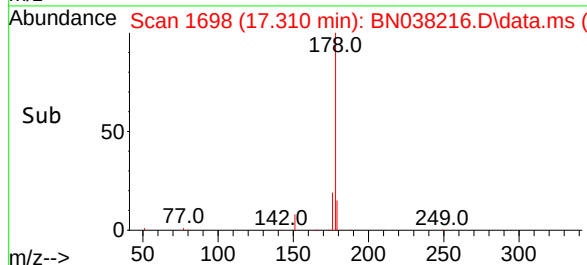
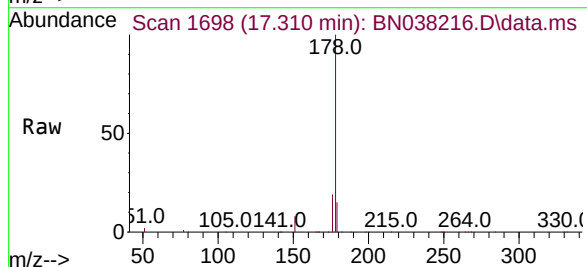
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

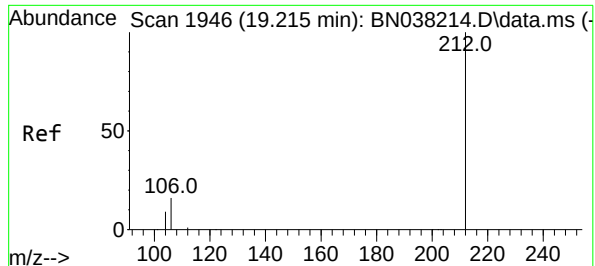
Tgt Ion:178 Resp: 123735
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.2 12.0 18.0



#26
Anthracene
Concen: 1.642 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:178 Resp: 107108
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.593 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

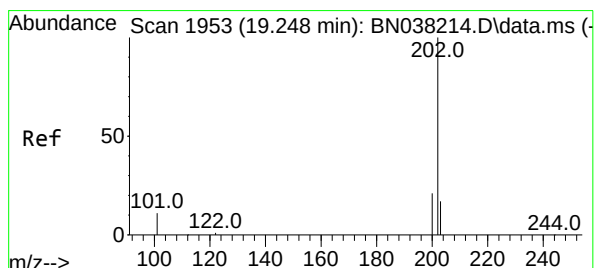
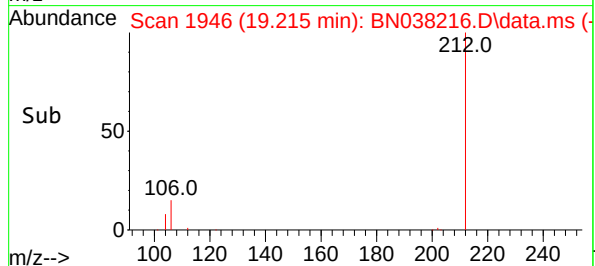
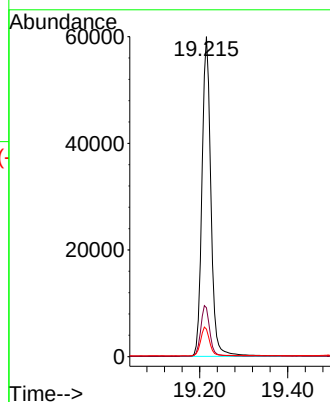
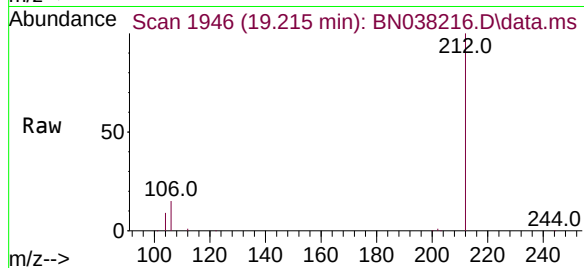
Tgt Ion:212 Resp: 84152

Ion Ratio Lower Upper

212 100

106 16.0 12.7 19.1

104 9.0 7.3 10.9



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

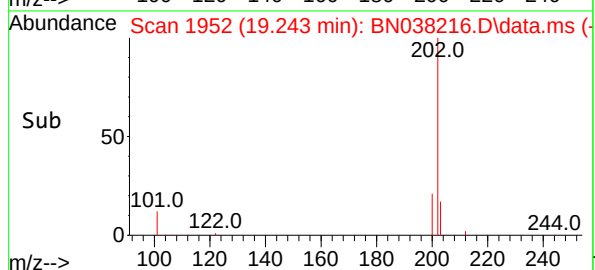
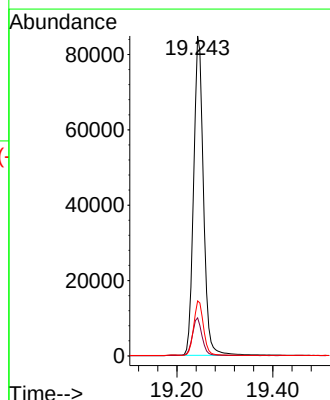
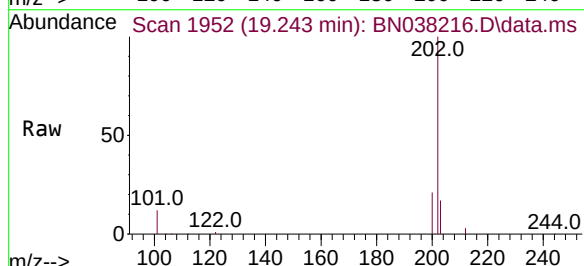
Tgt Ion:202 Resp: 119828

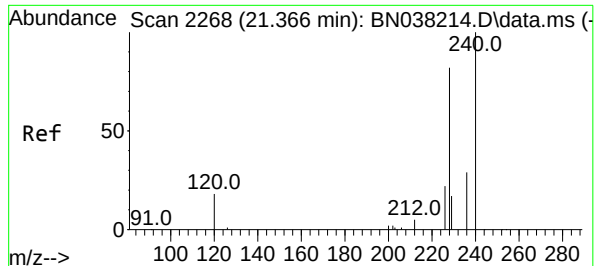
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

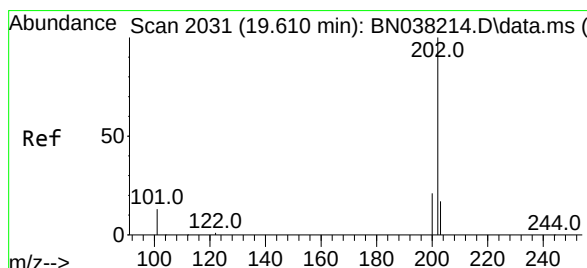
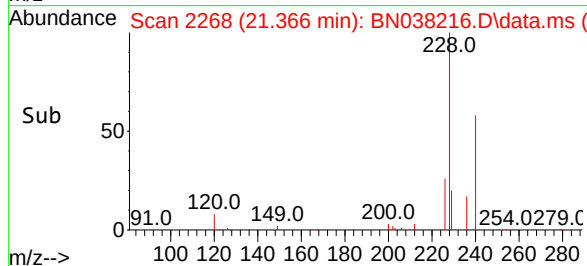
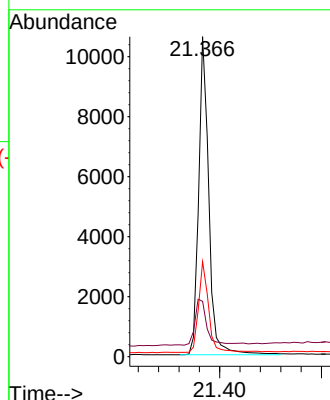
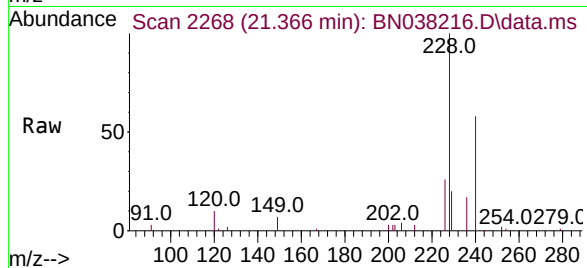
Tgt Ion:240 Resp: 14651

Ion Ratio Lower Upper

240 100

120 17.3 18.1 27.1#

236 29.7 24.2 36.4



#30

Pyrene

Concen: 1.580 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

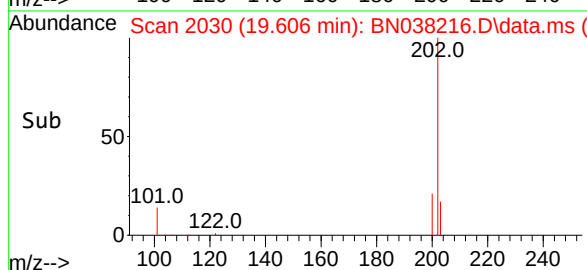
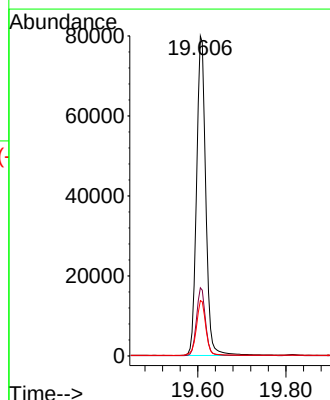
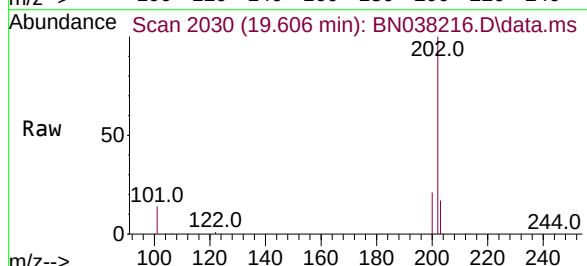
Tgt Ion:202 Resp: 115630

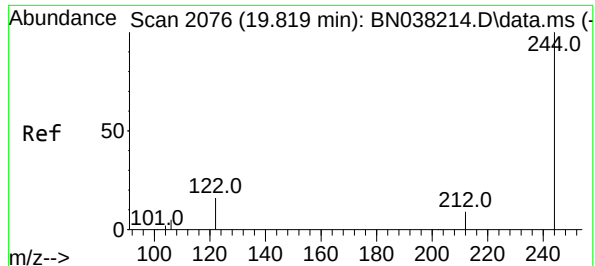
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.6 14.4 21.6

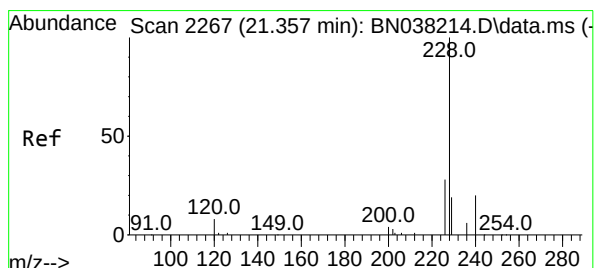
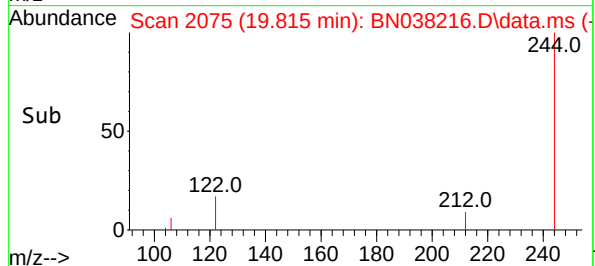
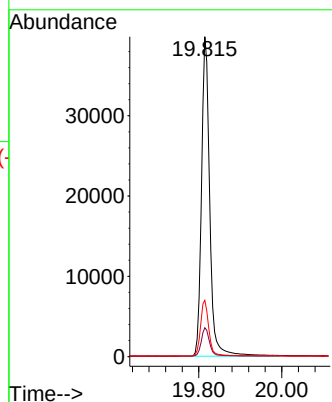
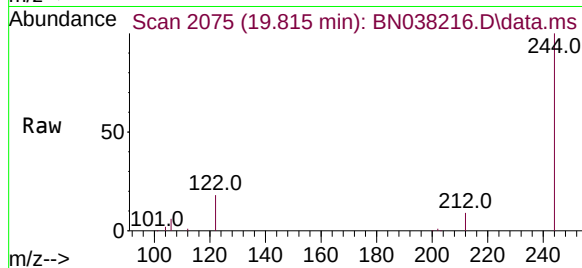




#31
Terphenyl-d14
Concen: 1.605 ng
RT: 19.815 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

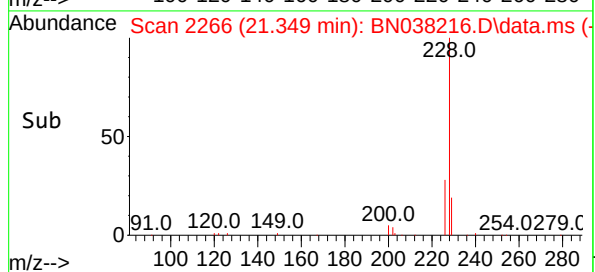
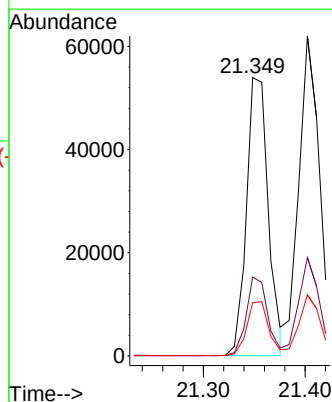
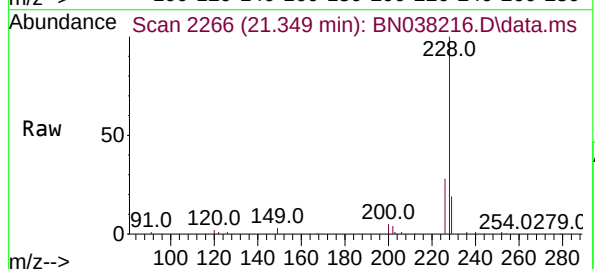
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

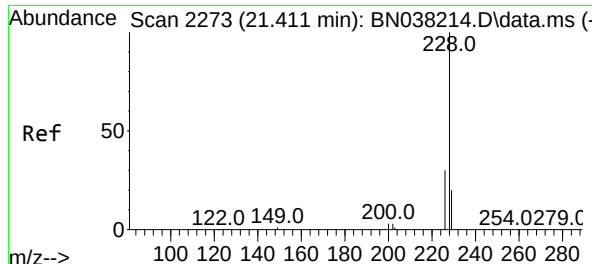
Tgt Ion:244 Resp: 54297
Ion Ratio Lower Upper
244 100
212 9.0 7.7 11.5
122 17.6 13.6 20.4



#32
Benzo(a)anthracene
Concen: 1.622 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:228 Resp: 80458
Ion Ratio Lower Upper
228 100
226 28.3 22.6 33.8
229 19.1 15.8 23.8





#33

Chrysene

Concen: 1.598 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

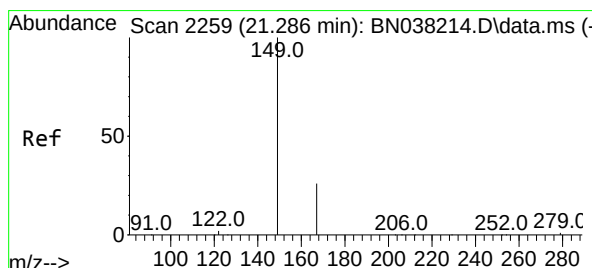
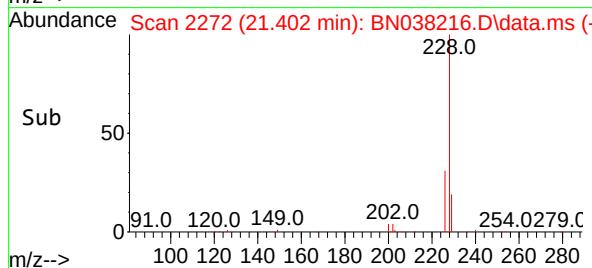
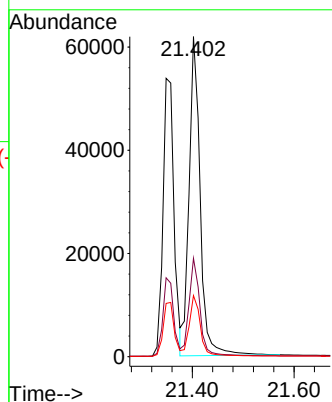
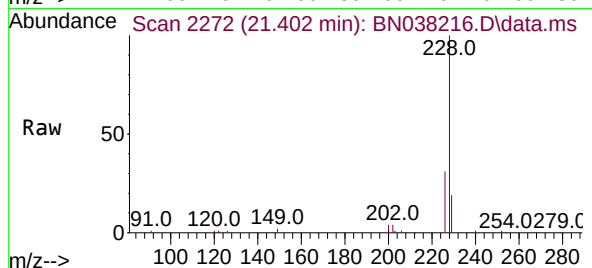
Tgt Ion:228 Resp: 93587

Ion Ratio Lower Upper

228 100

226 30.7 23.8 35.8

229 19.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.472 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

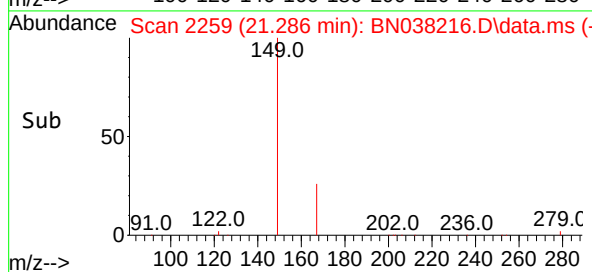
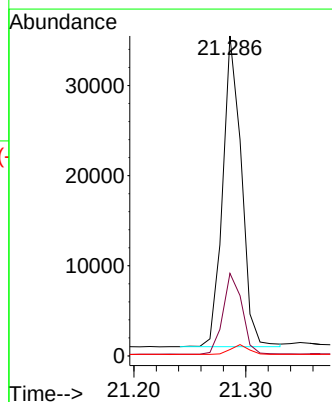
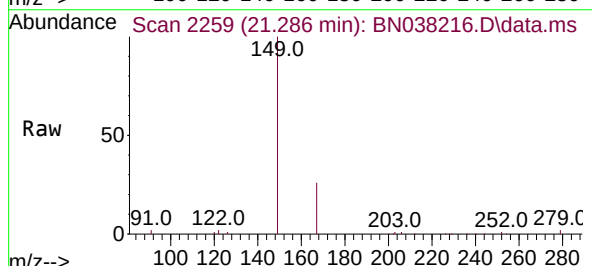
Tgt Ion:149 Resp: 39988

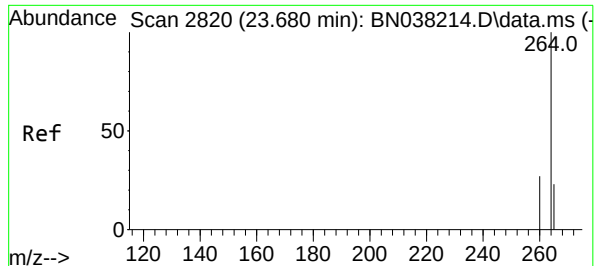
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038216.D

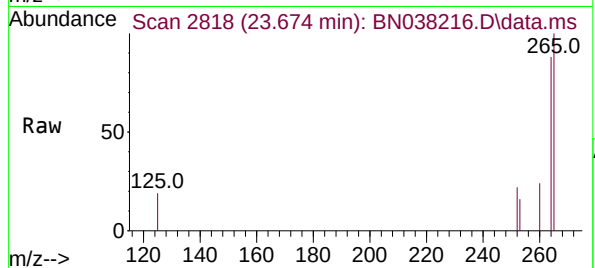
Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



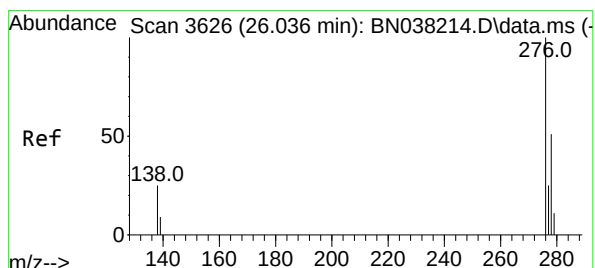
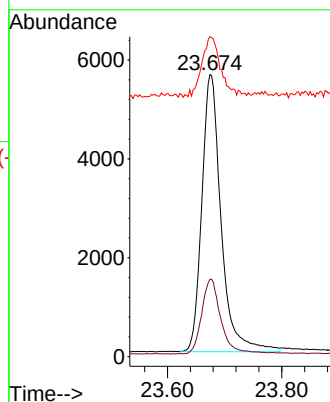
Tgt Ion:264 Resp: 13162

Ion Ratio Lower Upper

264 100

260 27.4 21.7 32.5

265 113.5 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.696 ng

RT: 26.028 min Scan# 3623

Delta R.T. -0.009 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

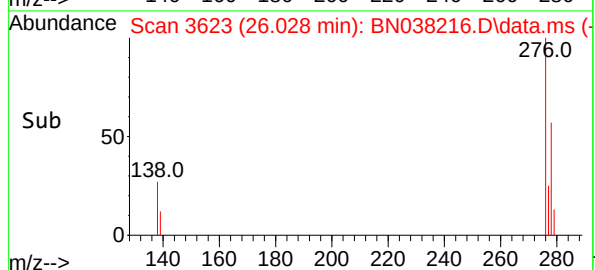
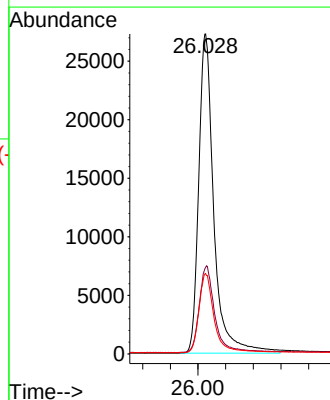
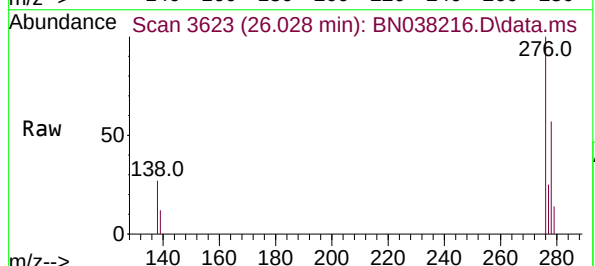
Tgt Ion:276 Resp: 103317

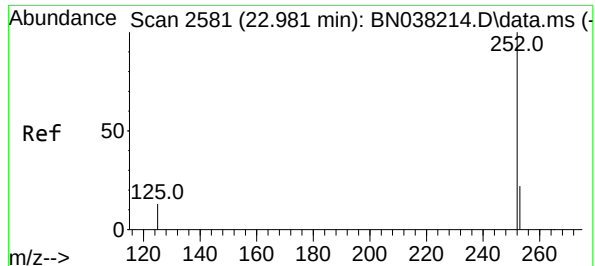
Ion Ratio Lower Upper

276 100

138 26.9 21.4 32.2

277 24.8 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 1.633 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038216.D

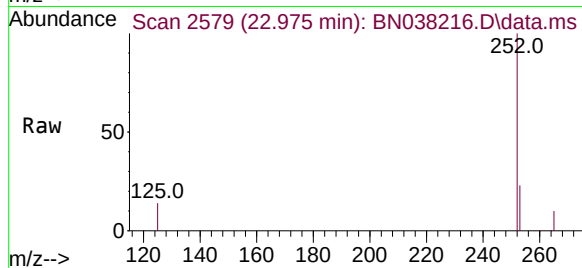
Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



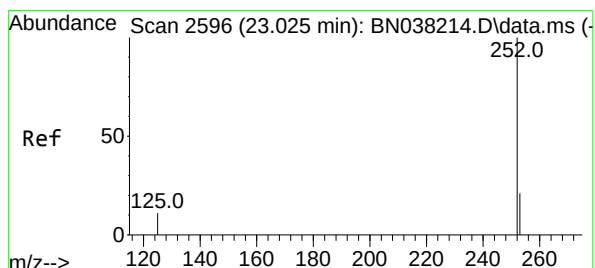
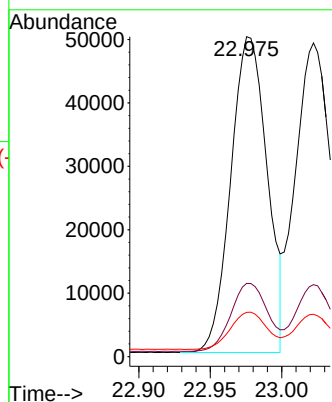
Tgt Ion:252 Resp: 88199

Ion Ratio Lower Upper

252 100

253 22.9 22.2 33.4

125 13.8 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 1.639 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

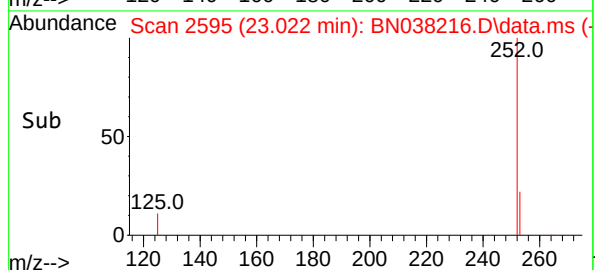
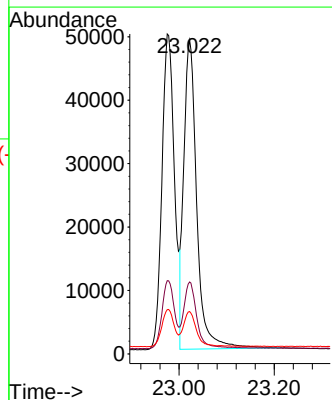
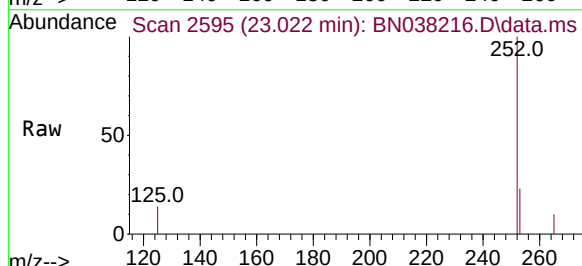
Tgt Ion:252 Resp: 92066

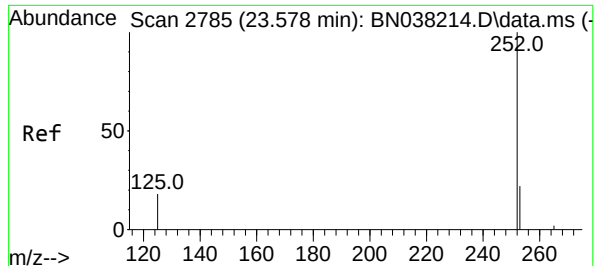
Ion Ratio Lower Upper

252 100

253 22.9 22.4 33.6

125 13.5 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 1.631 ng

RT: 23.572 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038216.D

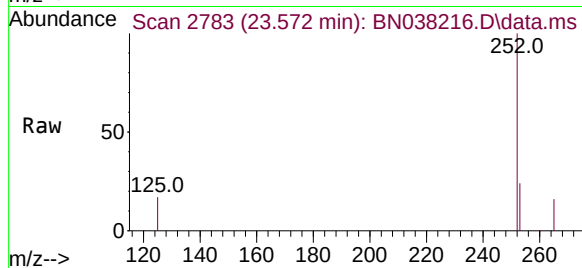
Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



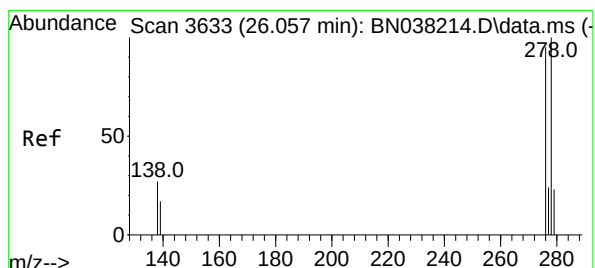
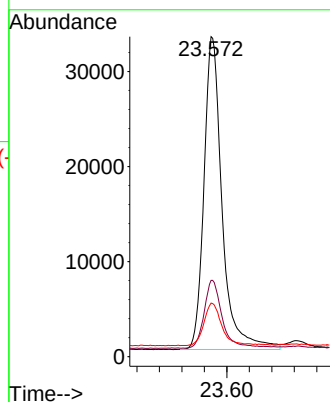
Tgt Ion:252 Resp: 73851

Ion Ratio Lower Upper

252 100

253 23.8 25.3 37.9#

125 16.7 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 1.726 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038216.D

Acq: 26 Nov 2025 23:01

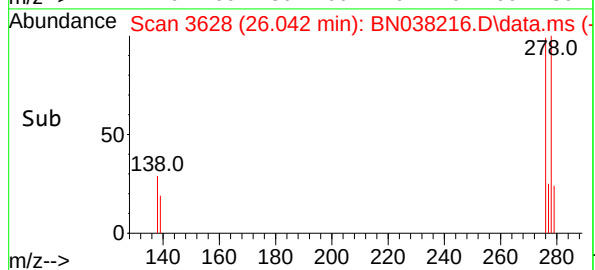
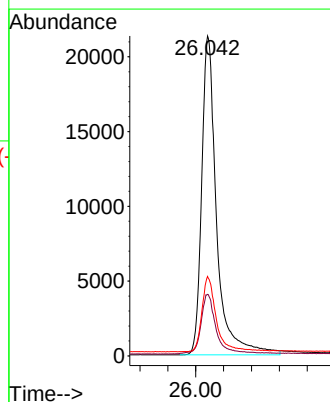
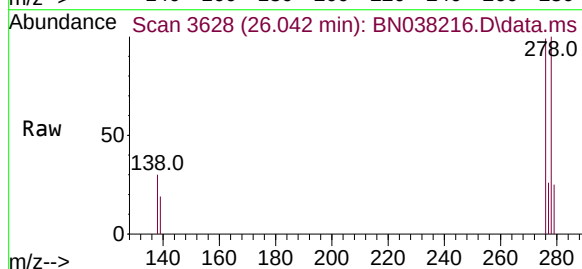
Tgt Ion:278 Resp: 79584

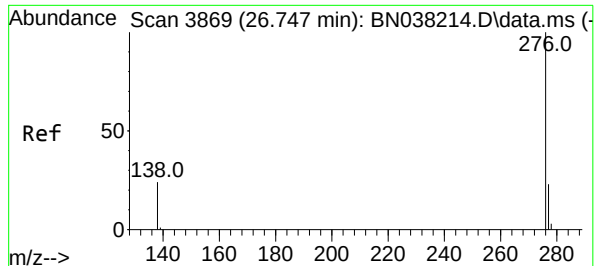
Ion Ratio Lower Upper

278 100

139 19.2 17.6 26.4

279 24.8 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 1.652 ng

RT: 26.741 min Scan# 38

Delta R.T. -0.006 min

Lab File: BN038216.D

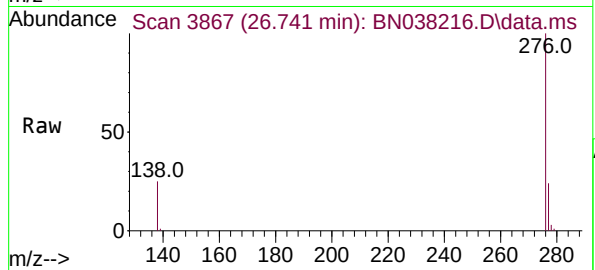
Acq: 26 Nov 2025 23:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



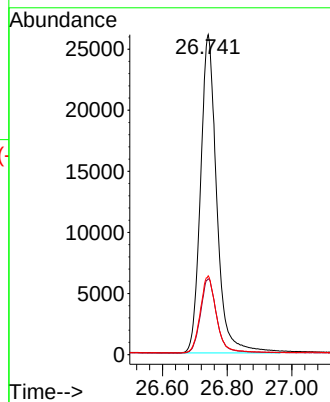
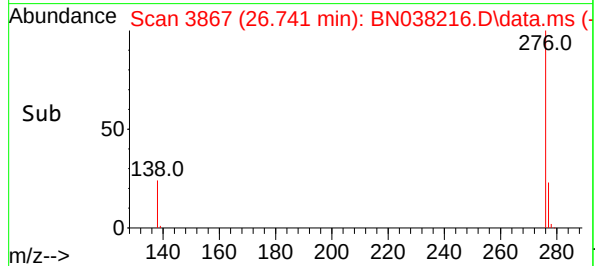
Tgt Ion:276 Resp: 90531

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 24.6 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038217.D
 Acq On : 26 Nov 2025 23:37
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

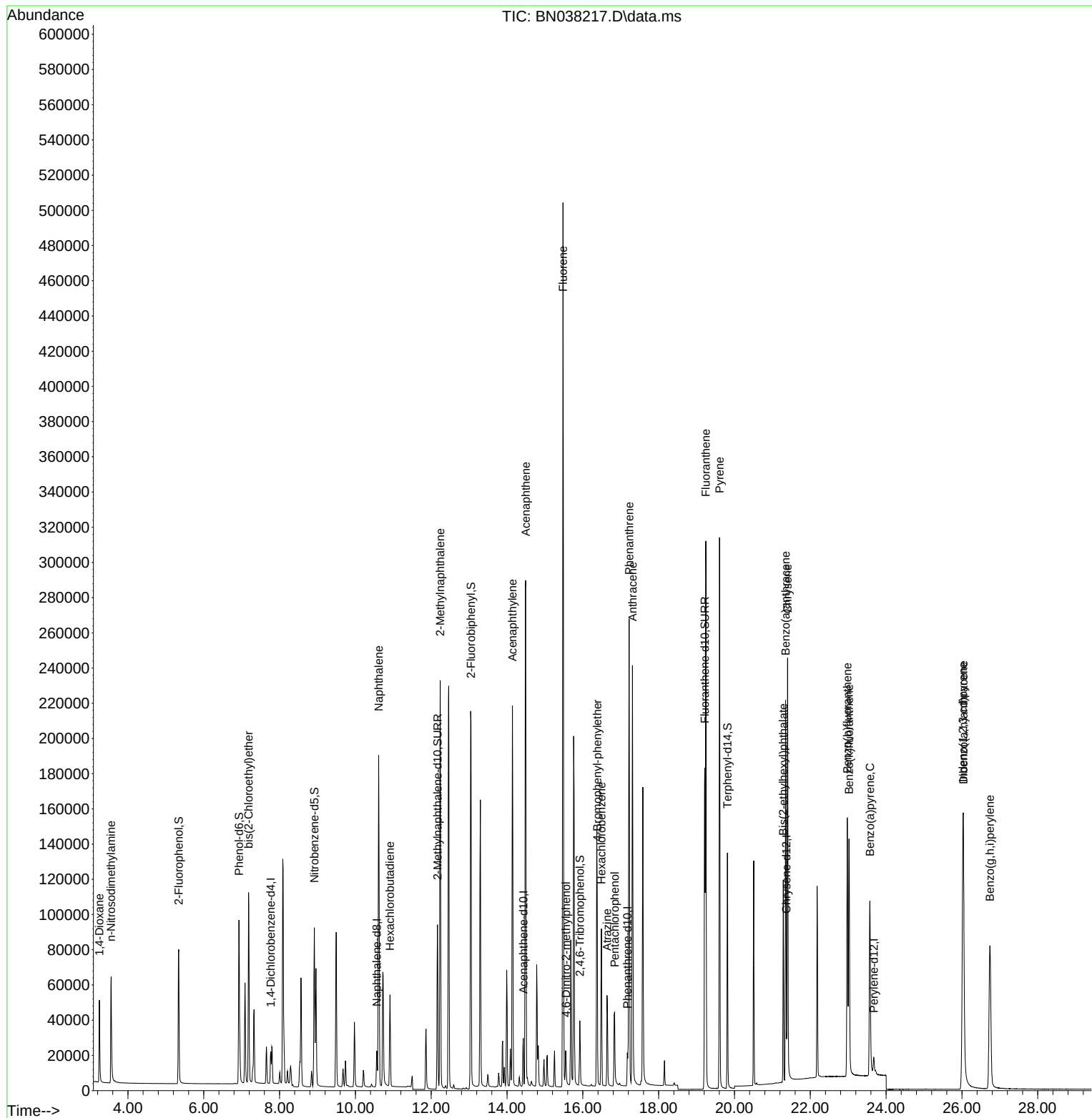
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8921	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	27682	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	16051	0.400	ng	0.00
19) Phenanthrene-d10	17.174	188	27295	0.400	ng	#-0.01
29) Chrysene-d12	21.367	240	16427	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	13786	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	65305	3.132	ng	0.00
5) Phenol-d6	6.930	99	85830	3.295	ng	0.00
8) Nitrobenzene-d5	8.918	82	68353	3.088	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	129220	3.288	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	21150	4.188	ng	-0.01
15) 2-Fluorobiphenyl	13.051	172	189268	3.053	ng	0.00
27) Fluoranthene-d10	19.215	212	197760	3.340	ng	0.00
31) Terphenyl-d14	19.815	244	127791	3.368	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.247	88	28493	3.032	ng	100
3) n-Nitrosodimethylamine	3.550	42	37688	3.252	ng	# 96
6) bis(2-Chloroethyl)ether	7.183	93	80616	3.232	ng	98
9) Naphthalene	10.616	128	242099	3.149	ng	99
10) Hexachlorobutadiene	10.915	225	39924	3.054	ng	# 99
12) 2-Methylnaphthalene	12.238	142	166016	3.282	ng	99
16) Acenaphthylene	14.142	152	239664	3.339	ng	100
17) Acenaphthene	14.495	154	162095	3.240	ng	97
18) Fluorene	15.478	166	219348	3.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	12986	3.198	ng	# 1
21) 4-Bromophenyl-phenylether	16.379	248	62082	3.283	ng	# 91
22) Hexachlorobenzene	16.491	284	69759	3.000	ng	100
23) Atrazine	16.640	200	43154	3.573	ng	# 91
24) Pentachlorophenol	16.838	266	25503	4.002	ng	98
25) Phenanthrene	17.223	178	282285	3.294	ng	100
26) Anthracene	17.310	178	252456	3.453	ng	99
28) Fluoranthene	19.243	202	279719	3.387	ng	99
30) Pyrene	19.606	202	272924	3.326	ng	100
32) Benzo(a)anthracene	21.349	228	186737	3.357	ng	99
33) Chrysene	21.402	228	202547	3.085	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	97307	3.194	ng	99
36) Indeno(1,2,3-cd)pyrene	26.025	276	216471	3.393	ng	98
37) Benzo(b)fluoranthene	22.979	252	189788	3.354	ng	# 84
38) Benzo(k)fluoranthene	23.022	252	195835	3.329	ng	# 85
39) Benzo(a)pyrene	23.572	252	156001	3.289	ng	# 76
40) Dibenzo(a,h)anthracene	26.040	278	169926	3.518	ng	# 90
41) Benzo(g,h,i)perylene	26.738	276	186060	3.242	ng	97

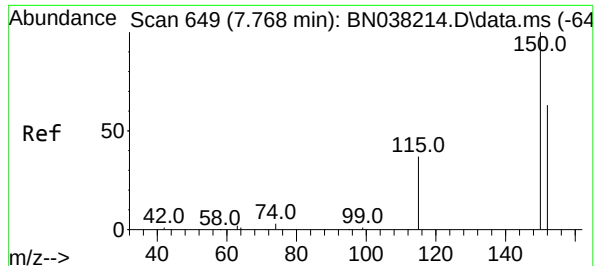
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038217.D
Acq On : 26 Nov 2025 23:37
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

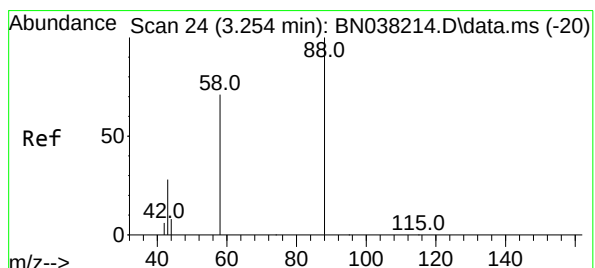
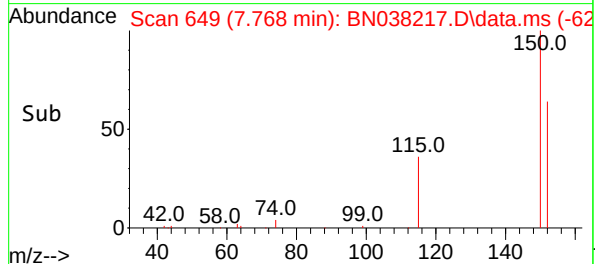
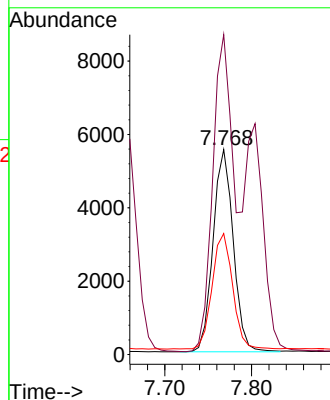
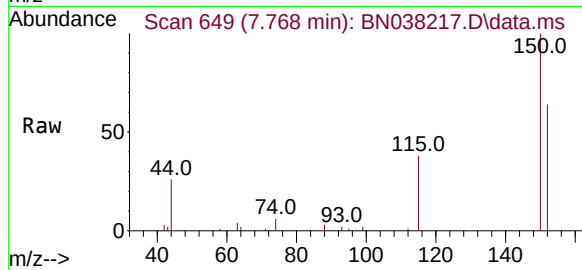




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

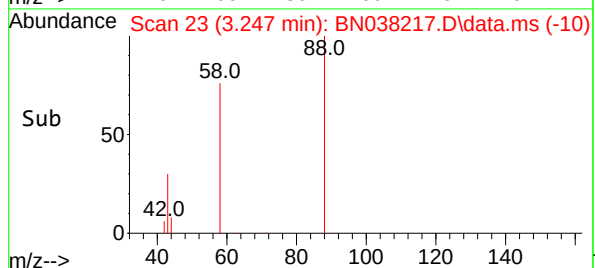
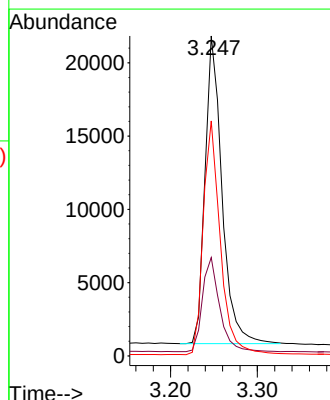
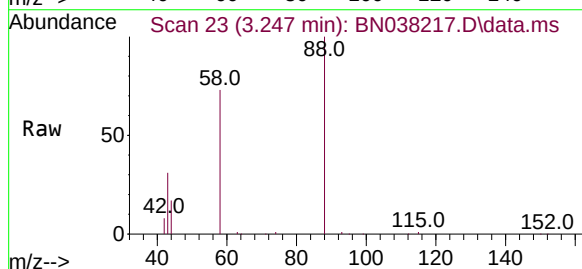
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

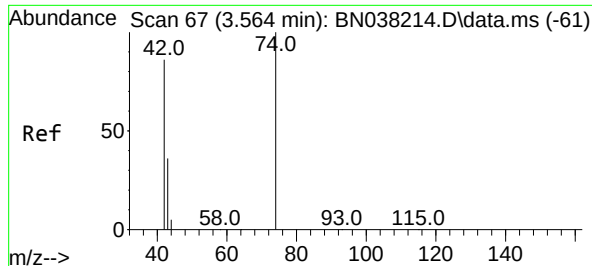
Tgt Ion:152 Resp: 8921
Ion Ratio Lower Upper
152 100
150 156.1 125.3 187.9
115 59.1 49.0 73.4



#2
1,4-Dioxane
Concen: 3.032 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 88 Resp: 28493
Ion Ratio Lower Upper
88 100
43 30.9 24.8 37.2
58 76.3 61.1 91.7

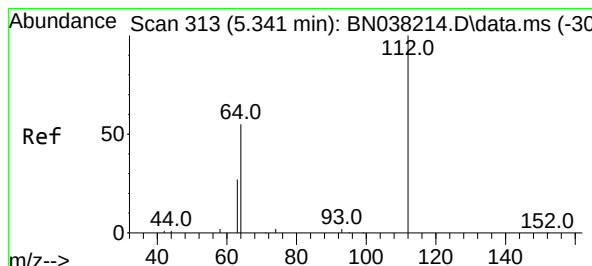
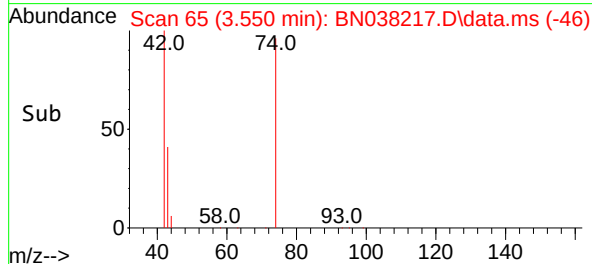
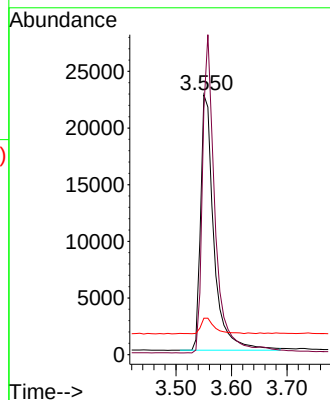
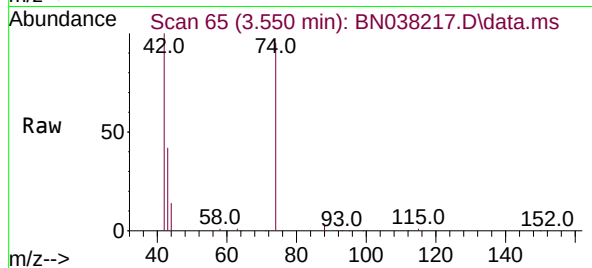




#3
n-Nitrosodimethylamine
Concen: 3.252 ng
RT: 3.550 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

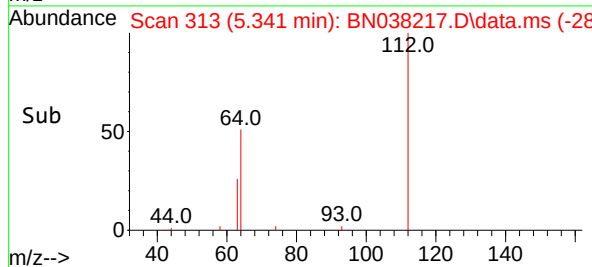
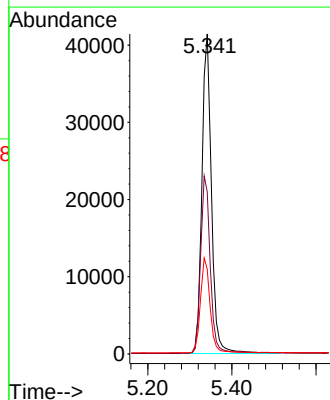
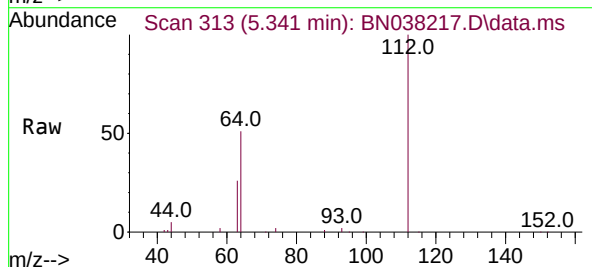
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

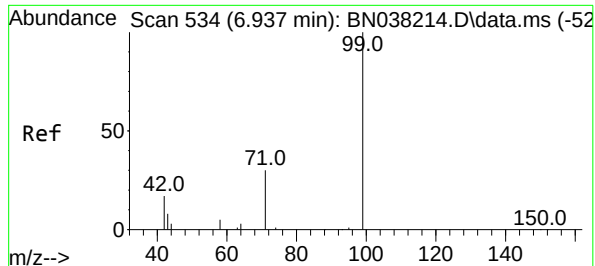
Tgt Ion: 42 Resp: 37688
Ion Ratio Lower Upper
42 100
74 116.3 96.2 144.2
44 6.3 8.0 12.0#



#4
2-Fluorophenol
Concen: 3.132 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 112 Resp: 65305
Ion Ratio Lower Upper
112 100
64 56.4 45.0 67.4
63 29.7 23.2 34.8

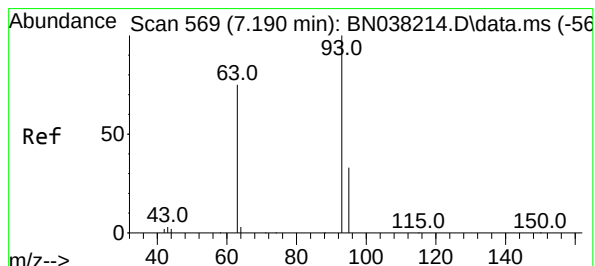
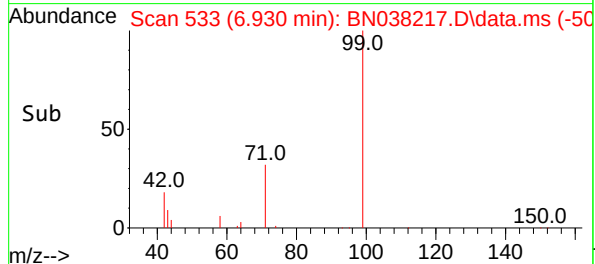
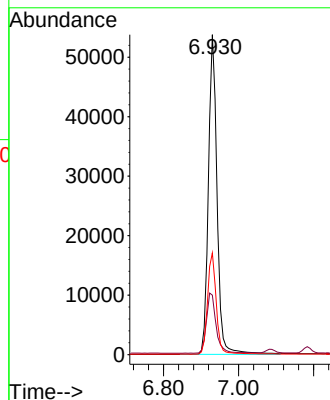
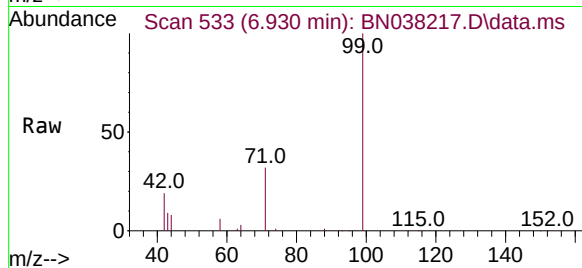




#5
Phenol-d6
Concen: 3.295 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

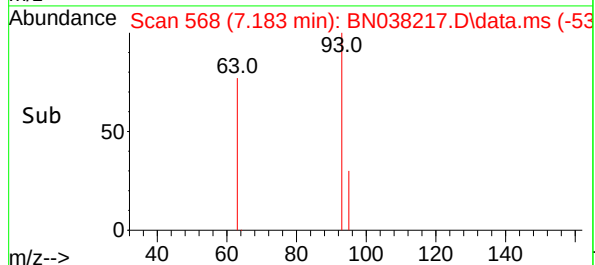
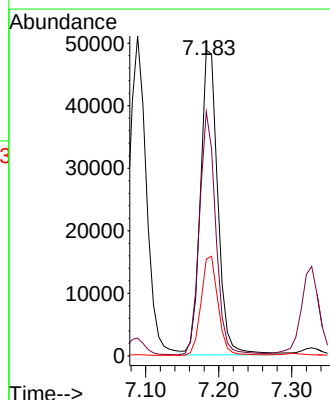
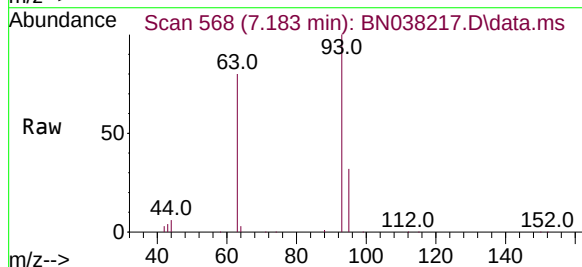
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

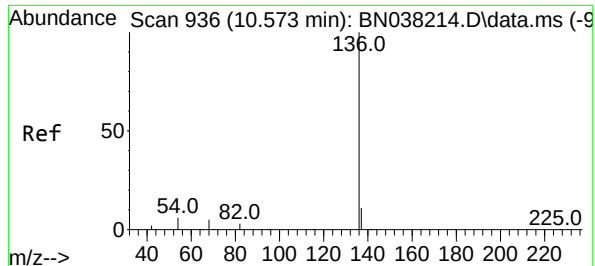
Tgt Ion: 99 Resp: 85830
Ion Ratio Lower Upper
99 100
42 21.0 17.0 25.6
71 32.2 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 3.232 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 93 Resp: 80616
Ion Ratio Lower Upper
93 100
63 74.8 58.1 87.1
95 31.8 25.1 37.7

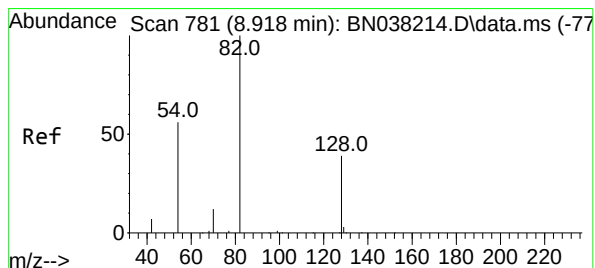
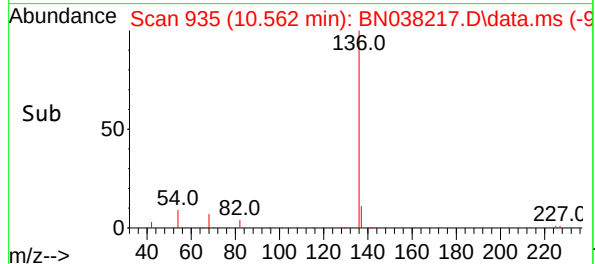
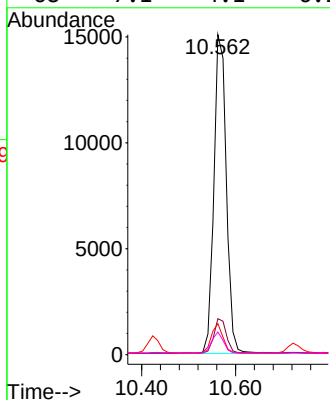
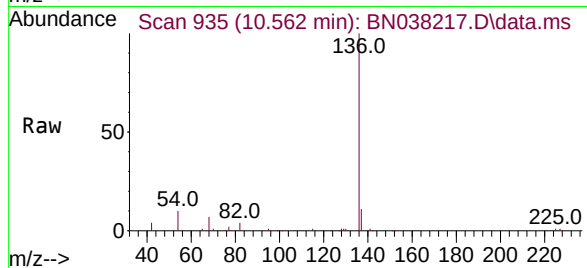




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.010 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

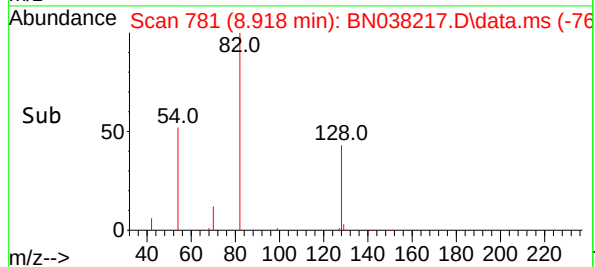
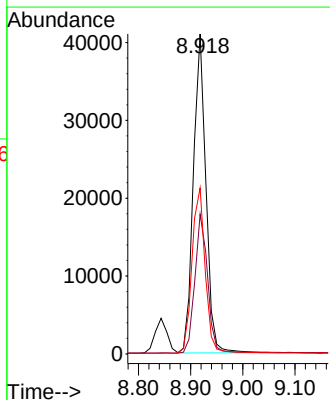
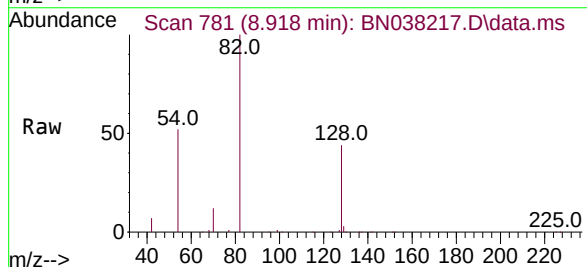
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

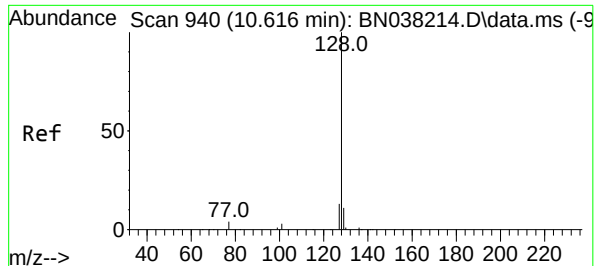
Tgt Ion:136	Resp:	27682
Ion	Ratio	Lower Upper
136	100	
137	11.2	8.9 13.3
54	9.7	5.4 8.0#
68	7.1	4.1 6.1#



#8
Nitrobenzene-d5
Concen: 3.088 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 82	Resp:	68353
Ion	Ratio	Lower Upper
82	100	
128	43.7	32.6 48.8
54	51.9	45.4 68.0

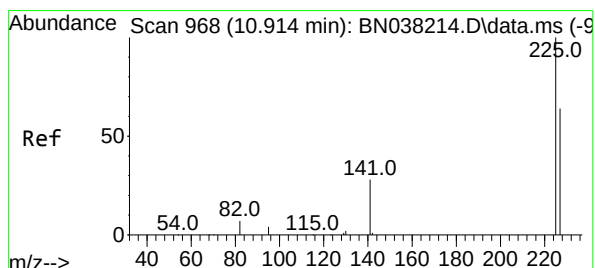
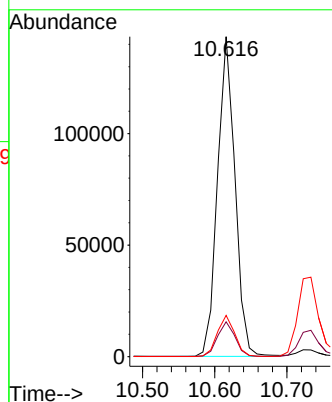
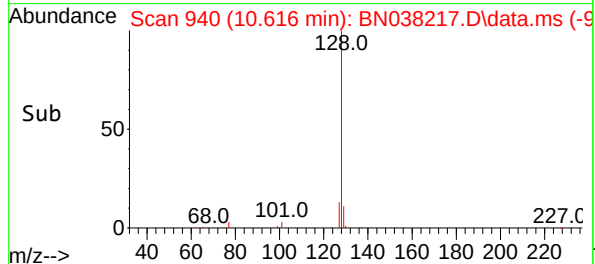
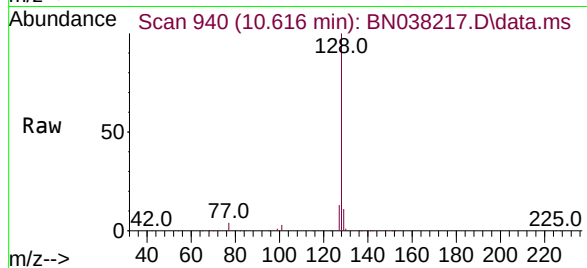




#9
Naphthalene
Concen: 3.149 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

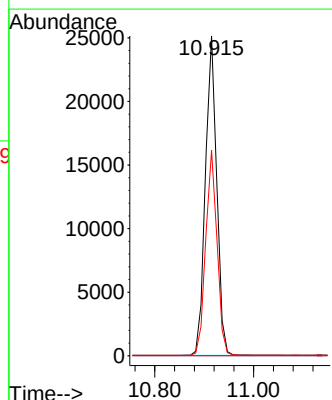
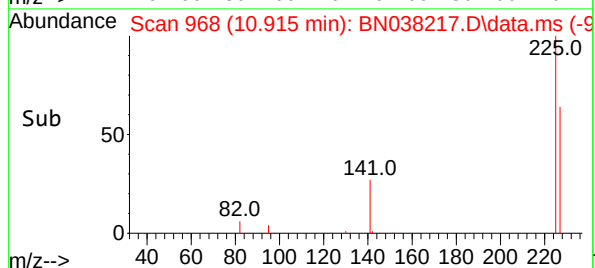
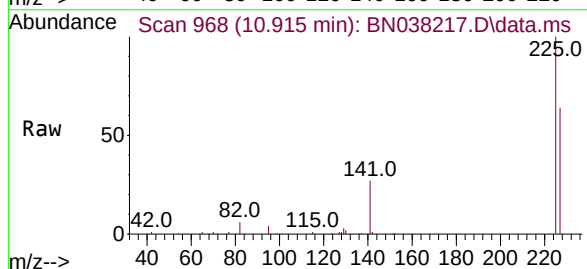
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

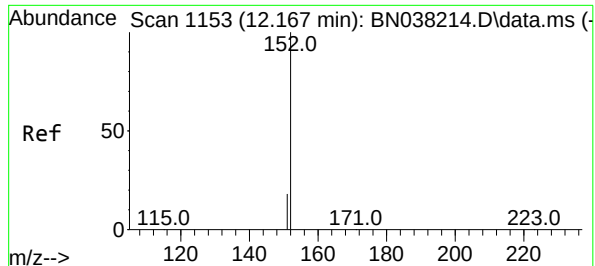
Tgt Ion:128 Resp: 242099
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 12.9 10.6 16.0



#10
Hexachlorobutadiene
Concen: 3.054 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:225 Resp: 39924
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 50.5 75.7

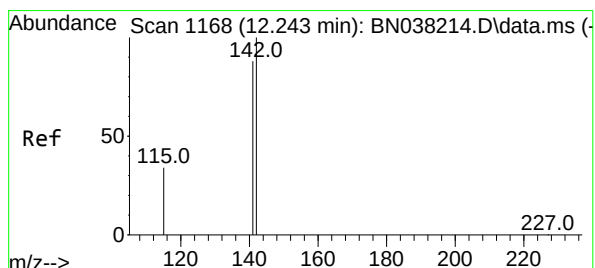
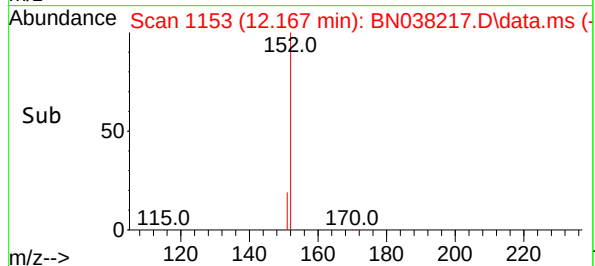
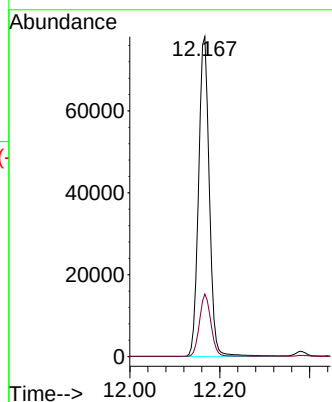
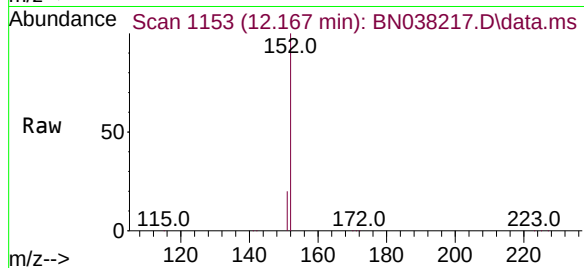




#11
2-Methylnaphthalene-d10
Concen: 3.288 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

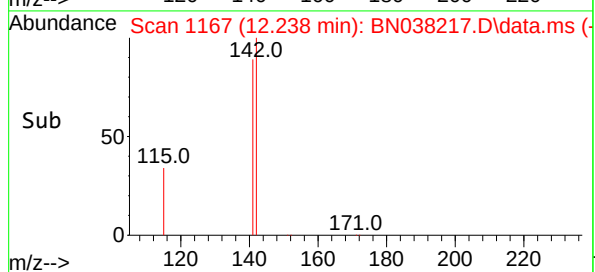
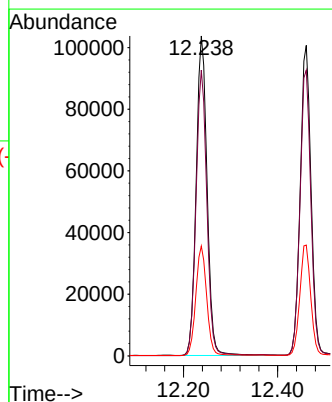
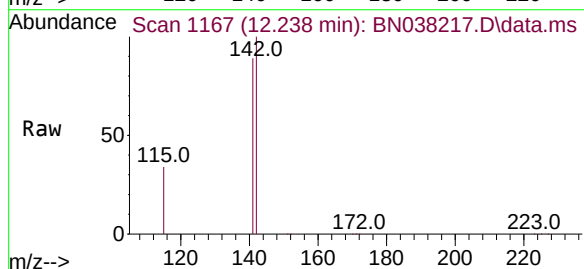
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

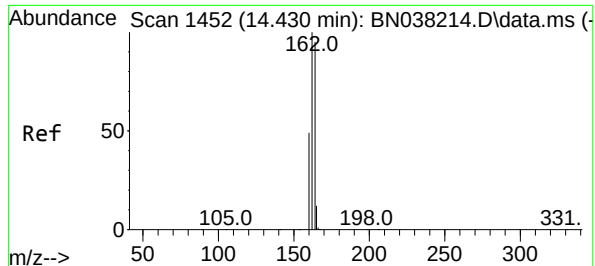
Tgt Ion:152 Resp: 129220
Ion Ratio Lower Upper
152 100
151 20.9 16.7 25.1



#12
2-Methylnaphthalene
Concen: 3.282 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:142 Resp: 166016
Ion Ratio Lower Upper
142 100
141 89.3 70.9 106.3
115 34.3 27.7 41.5

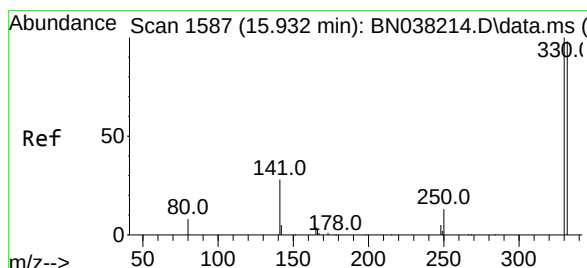
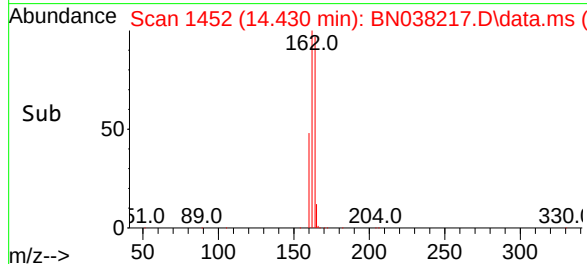
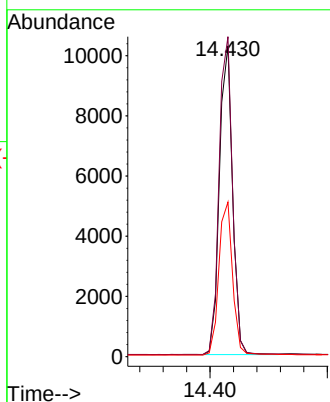
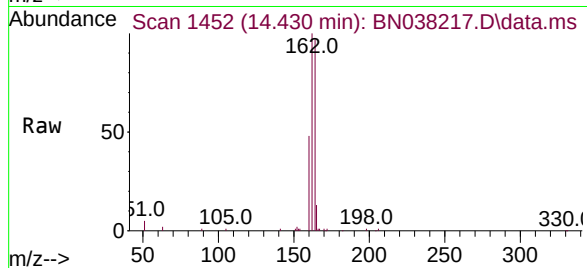




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

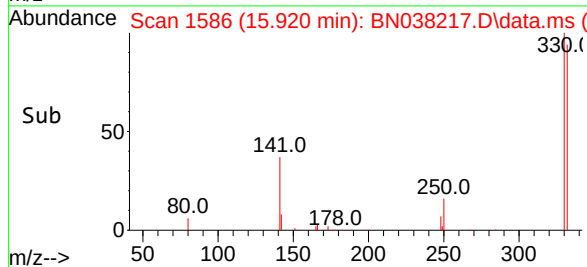
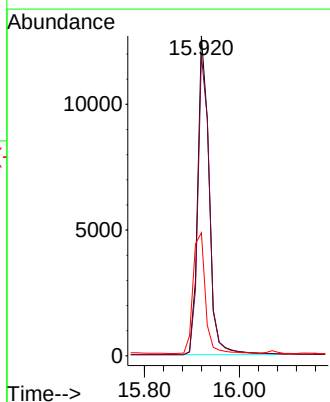
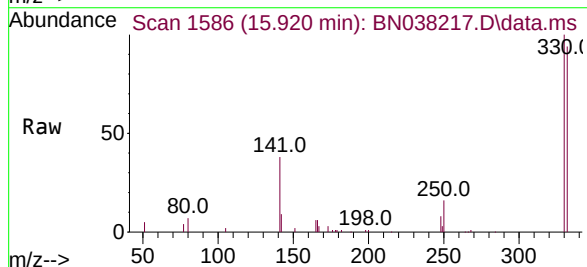
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

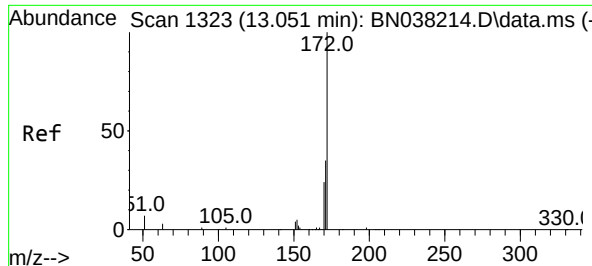
Tgt Ion	164	162	160
Resp:	16051	103.0	49.7
Lower		83.8	41.6
Upper		125.8	62.4



#14
2,4,6-Tribromophenol
Concen: 4.188 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion	330	332	141
Resp:	21150	96.2	41.0
Lower		77.8	33.0
Upper		116.6	49.4





#15

2-Fluorobiphenyl

Concen: 3.053 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

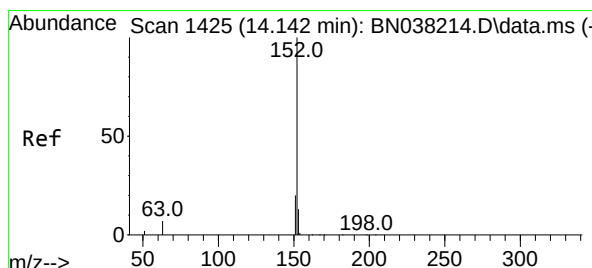
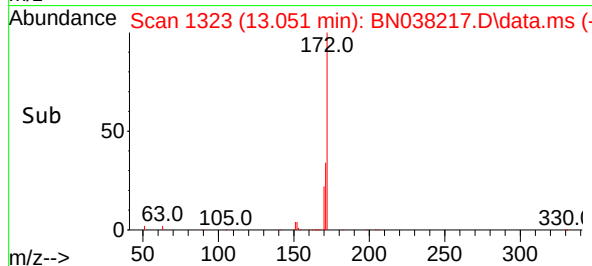
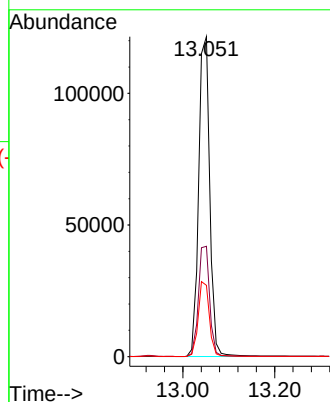
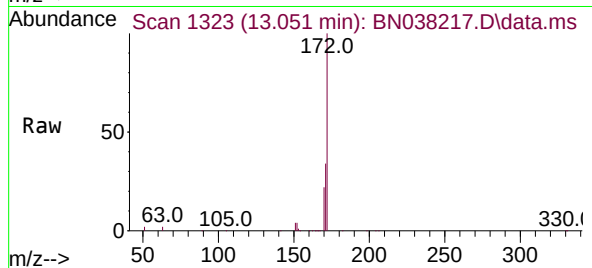
Tgt Ion:172 Resp: 189268

Ion Ratio Lower Upper

172 100

171 34.5 28.1 42.1

170 22.3 19.1 28.7



#16

Acenaphthylene

Concen: 3.339 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

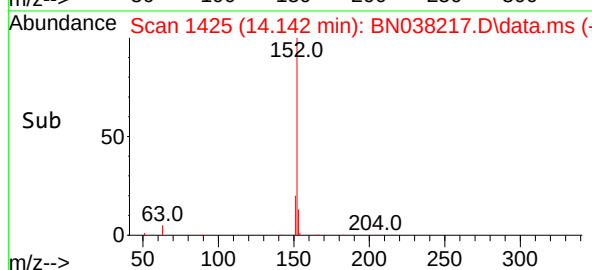
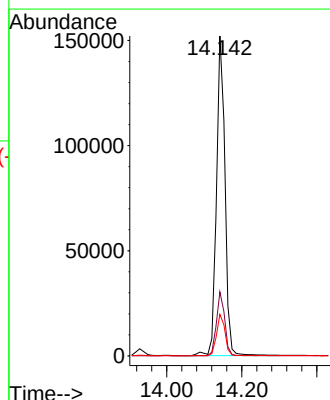
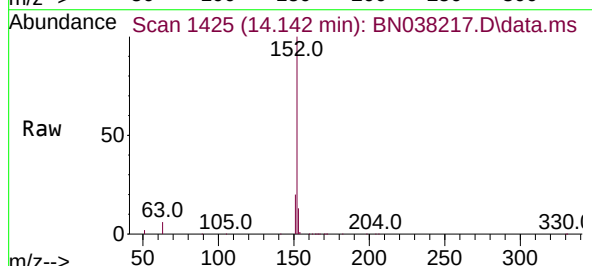
Tgt Ion:152 Resp: 239664

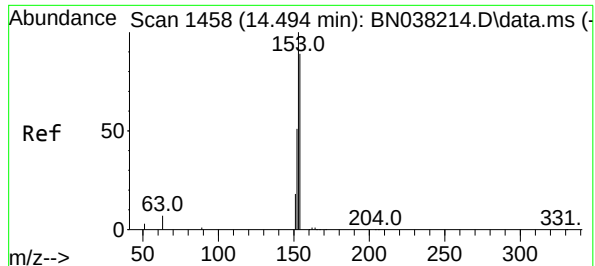
Ion Ratio Lower Upper

152 100

151 19.4 15.6 23.4

153 13.0 10.6 15.8

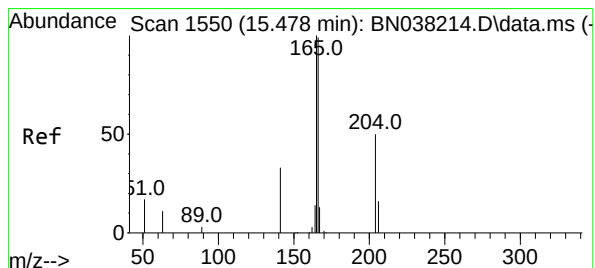
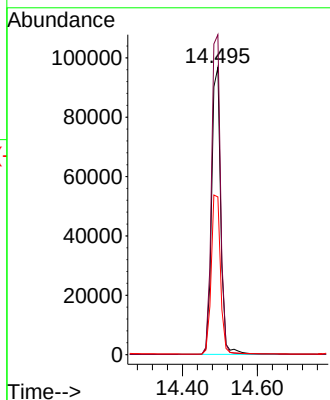
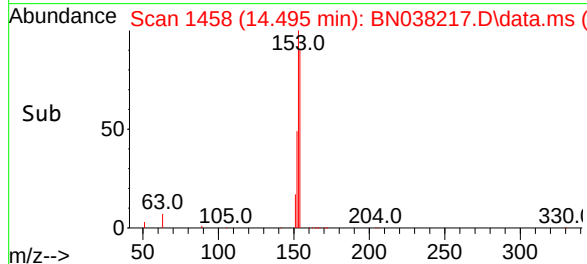
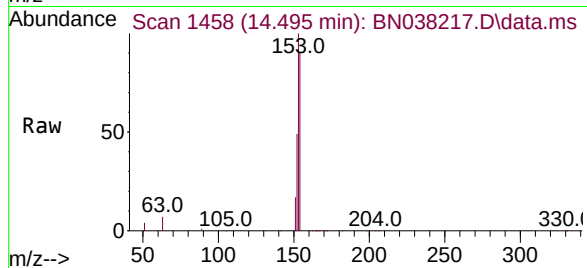




#17
Acenaphthene
Concen: 3.240 ng
RT: 14.495 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

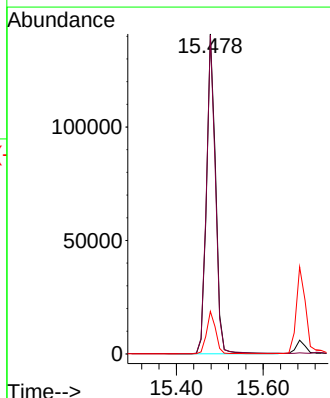
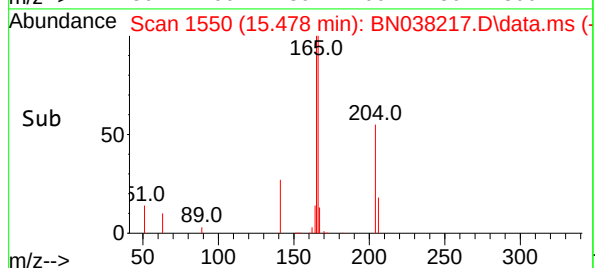
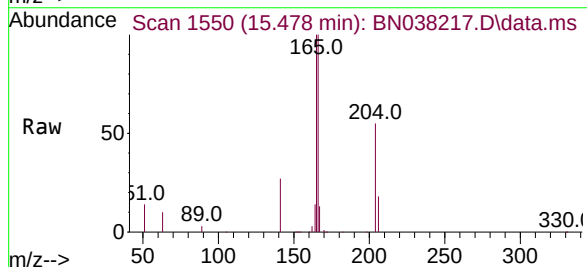
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

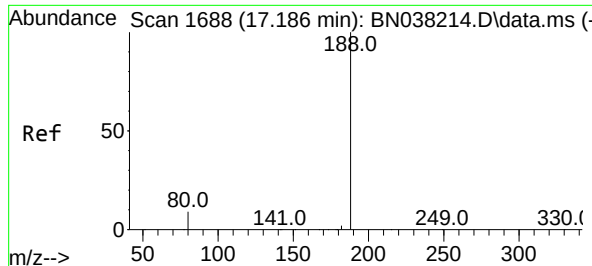
Tgt Ion:154 Resp: 162095
Ion Ratio Lower Upper
154 100
153 111.5 91.1 136.7
152 56.7 48.2 72.2



#18
Fluorene
Concen: 3.387 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:166 Resp: 219348
Ion Ratio Lower Upper
166 100
165 98.9 78.7 118.1
167 13.2 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.174 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

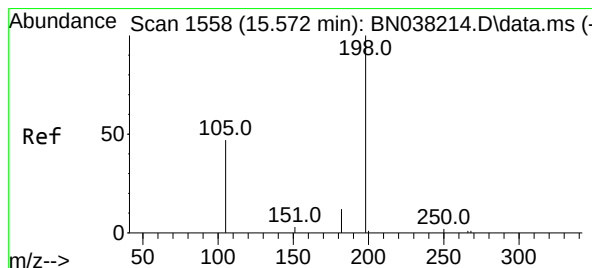
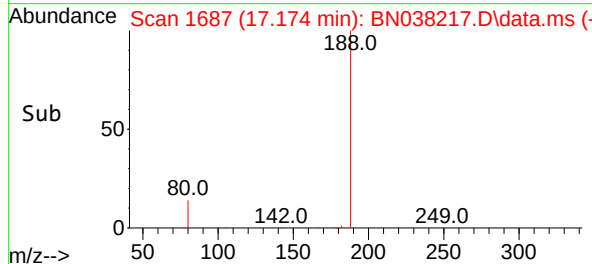
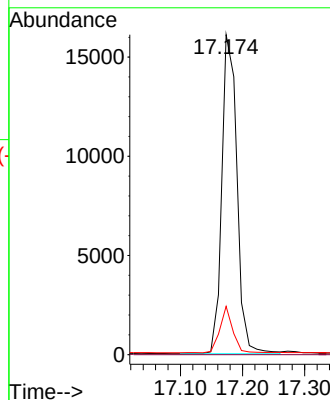
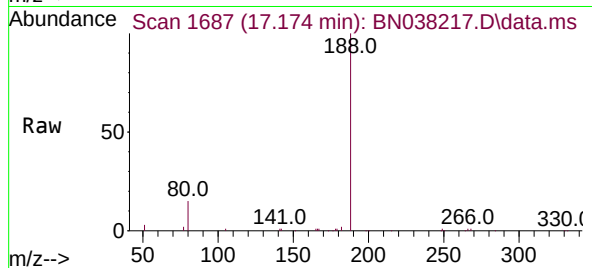
Tgt Ion:188 Resp: 27295

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 3.198 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

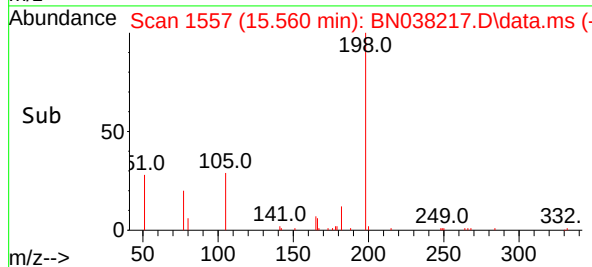
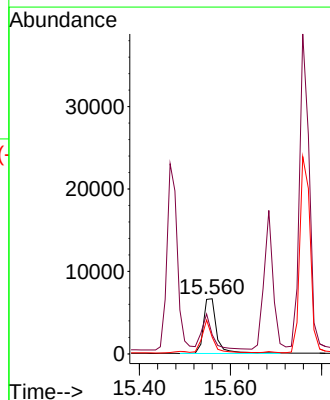
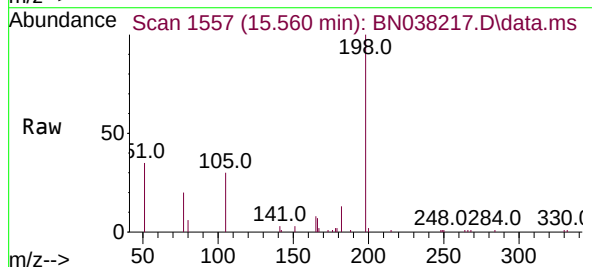
Tgt Ion:198 Resp: 12986

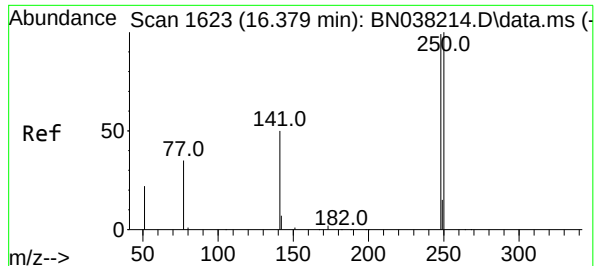
Ion Ratio Lower Upper

198 100

51 34.6 205.1 307.7#

105 30.5 61.6 92.4#

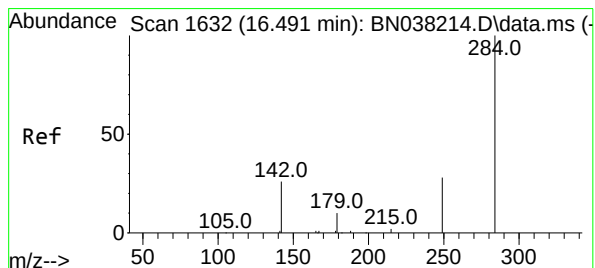
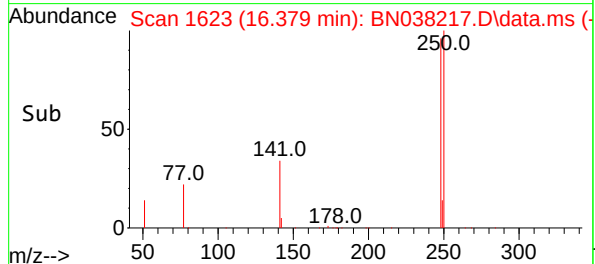
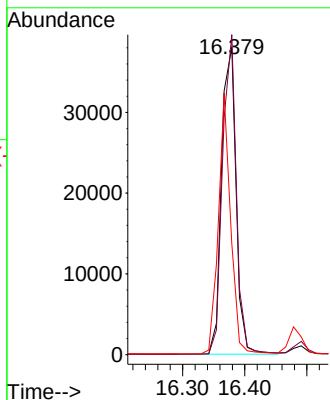
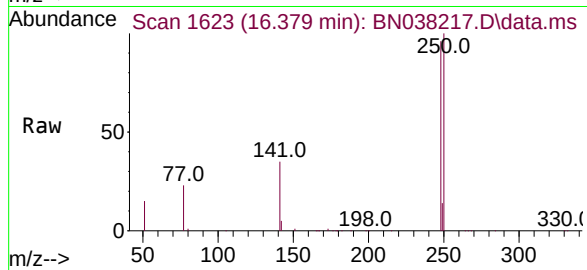




#21
4-Bromophenyl-phenylether
Concen: 3.283 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

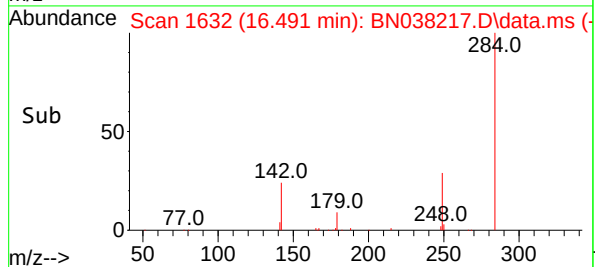
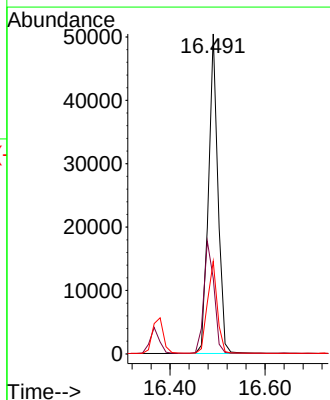
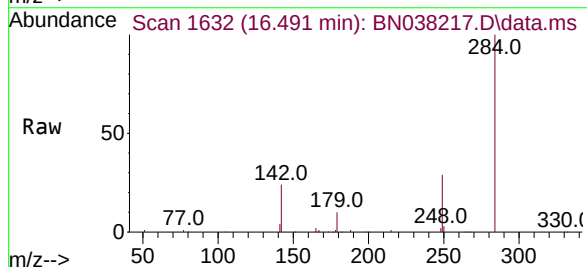
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

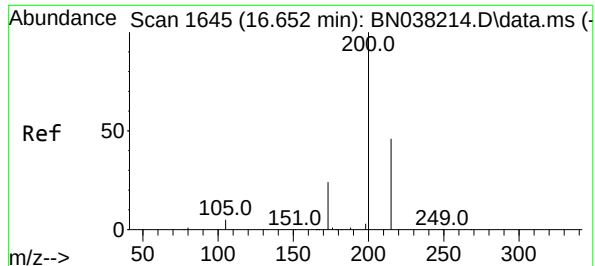
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.2	80.8	121.2
141	36.1	41.0	61.6#



#22
Hexachlorobenzene
Concen: 3.000 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.5	45.7
249	29.9	23.8	35.8

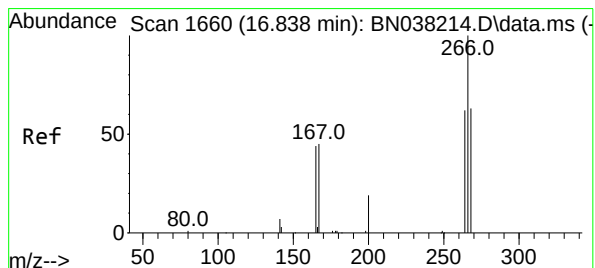
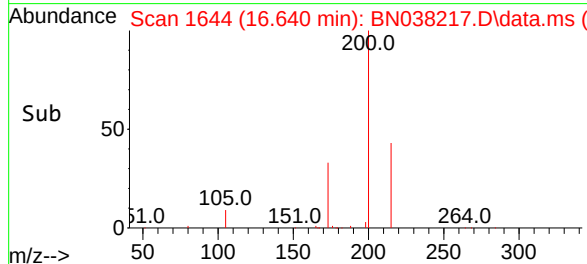
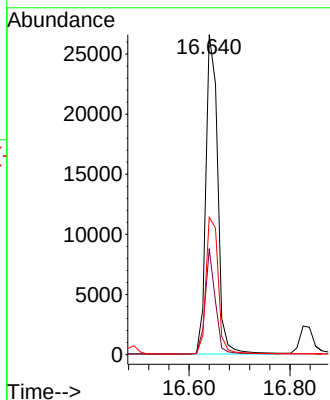
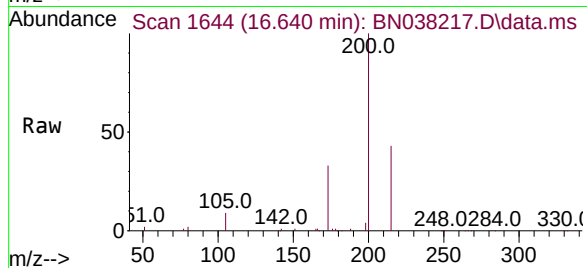




#23
Atrazine
Concen: 3.573 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

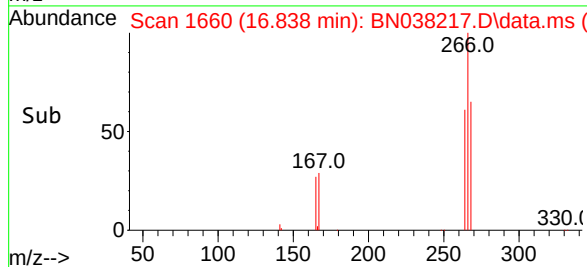
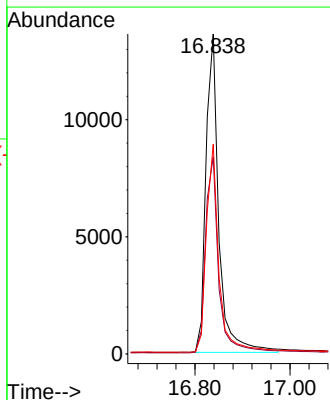
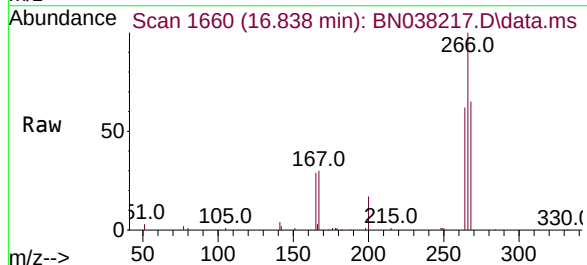
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

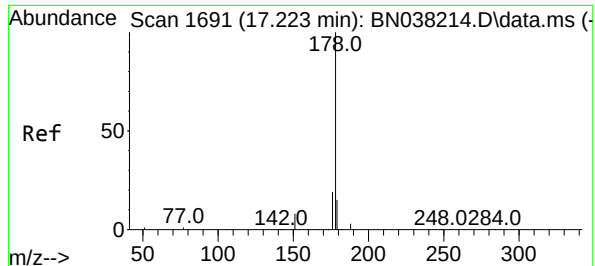
Tgt Ion:200 Resp: 43154
Ion Ratio Lower Upper
200 100
173 33.1 21.0 31.6#
215 42.9 37.8 56.8



#24
Pentachlorophenol
Concen: 4.002 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:266 Resp: 25503
Ion Ratio Lower Upper
266 100
264 62.5 48.9 73.3
268 63.8 50.2 75.2





#25

Phenanthrene

Concen: 3.294 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

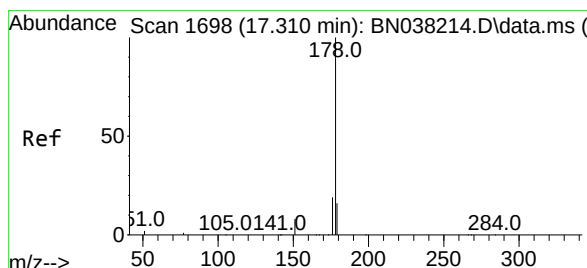
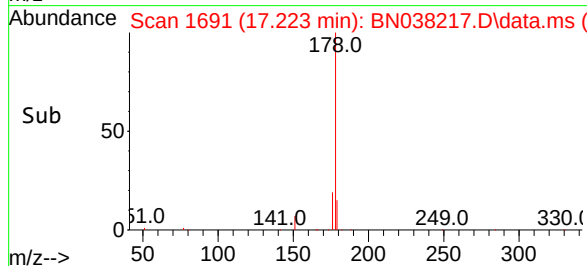
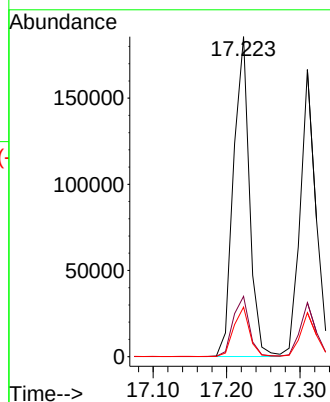
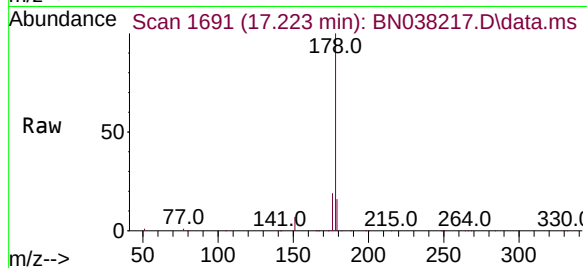
Tgt Ion:178 Resp: 282285

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

179 15.3 12.0 18.0



#26

Anthracene

Concen: 3.453 ng

RT: 17.310 min Scan# 1698

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

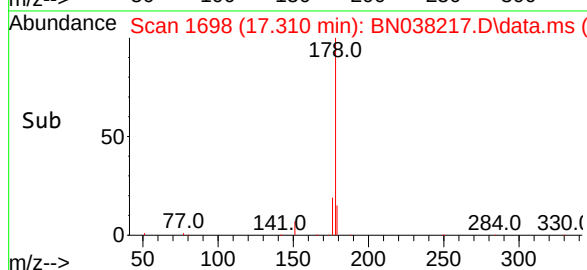
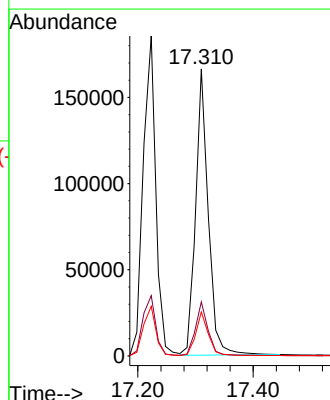
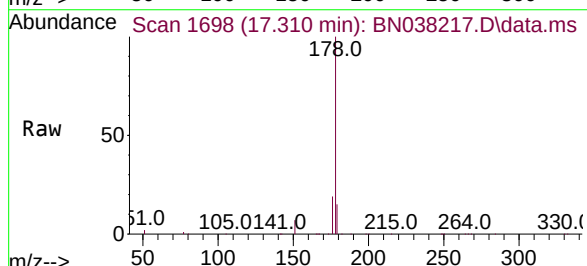
Tgt Ion:178 Resp: 252456

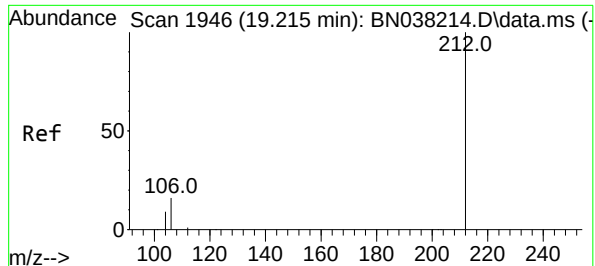
Ion Ratio Lower Upper

178 100

176 18.7 14.7 22.1

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.340 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

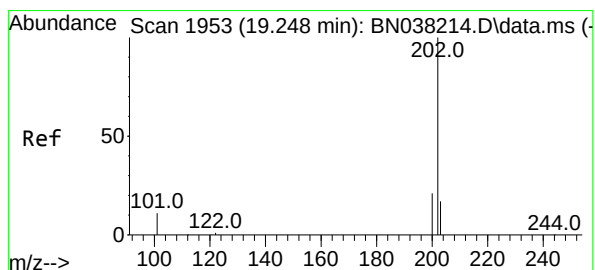
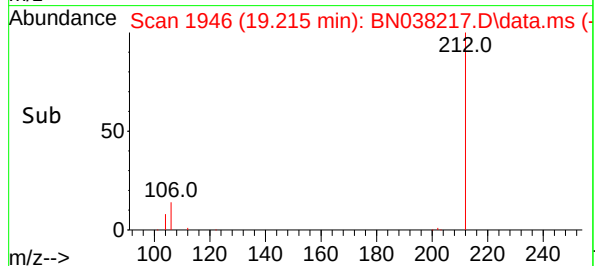
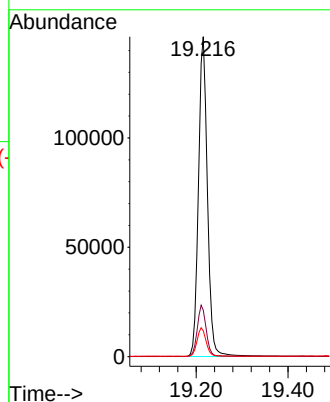
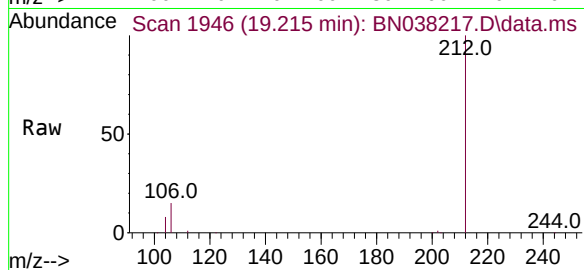
Tgt Ion:212 Resp: 197760

Ion Ratio Lower Upper

212 100

106 16.0 12.7 19.1

104 9.0 7.3 10.9



#28

Fluoranthene

Concen: 3.387 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.004 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

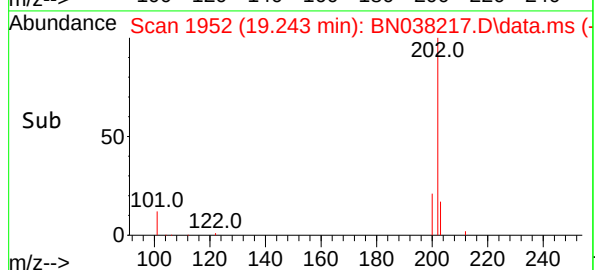
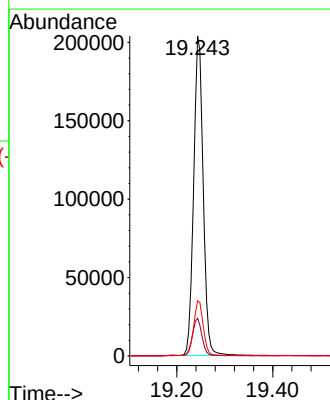
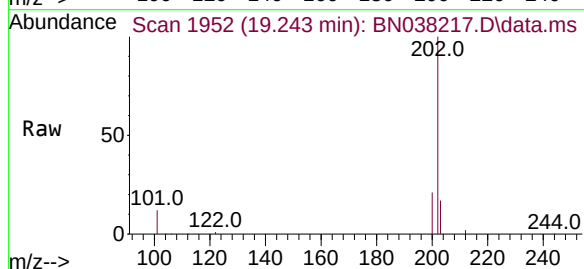
Tgt Ion:202 Resp: 279719

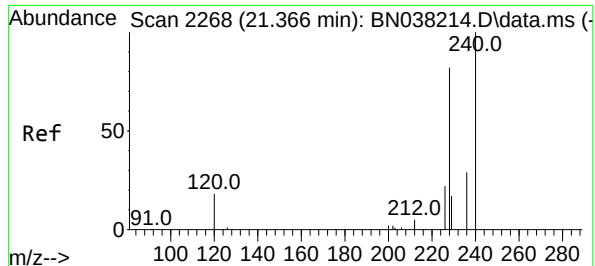
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.367 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

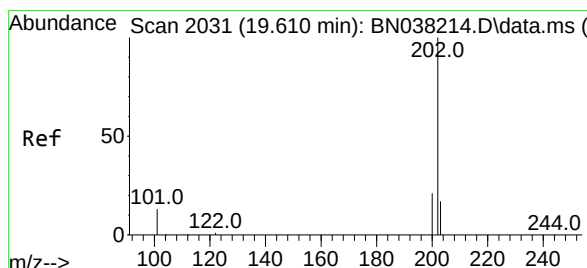
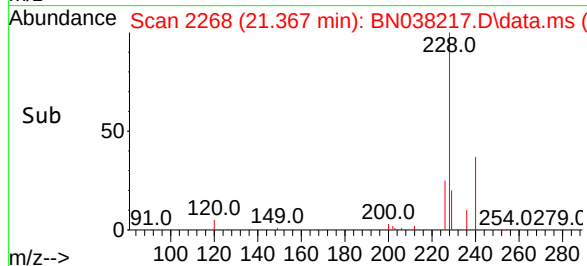
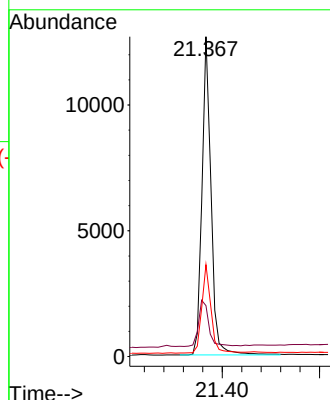
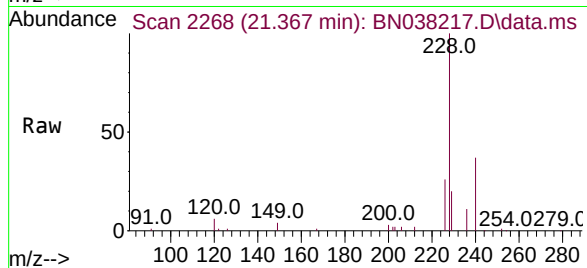
Tgt Ion:240 Resp: 16427

Ion Ratio Lower Upper

240 100

120 15.9 18.1 27.1#

236 28.7 24.2 36.4



#30

Pyrene

Concen: 3.326 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.004 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

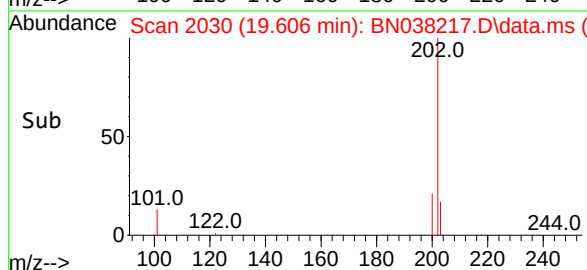
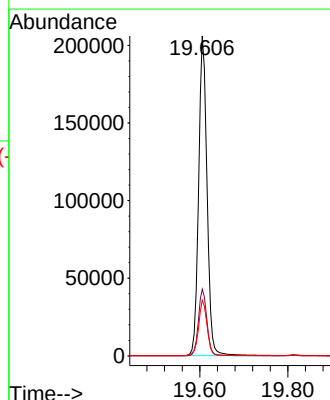
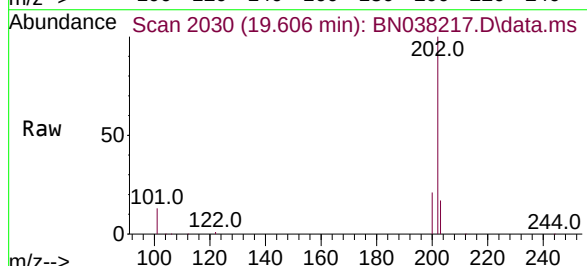
Tgt Ion:202 Resp: 272924

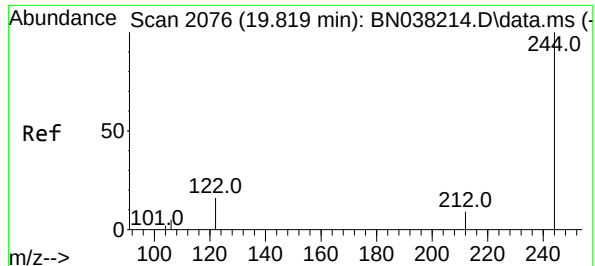
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.4 21.6

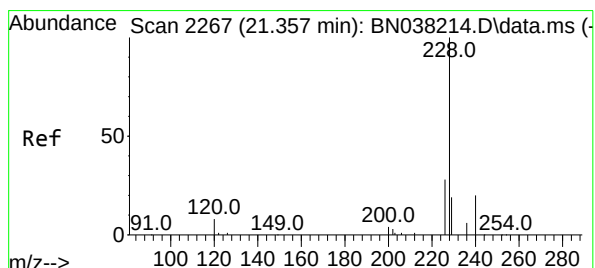
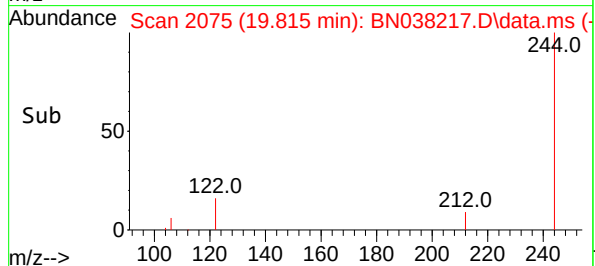
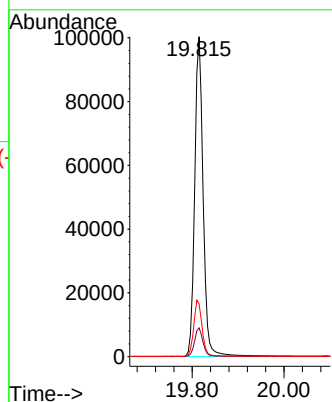
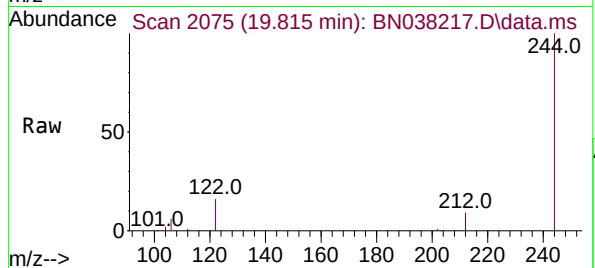




#31
Terphenyl-d14
Concen: 3.368 ng
RT: 19.815 min Scan# 2076
Delta R.T. -0.004 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

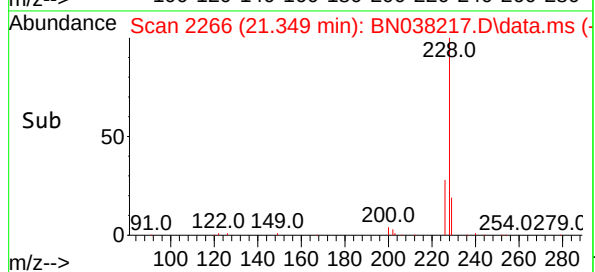
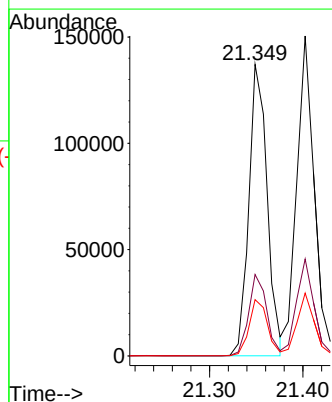
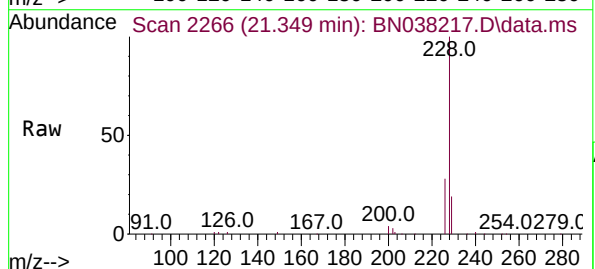
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

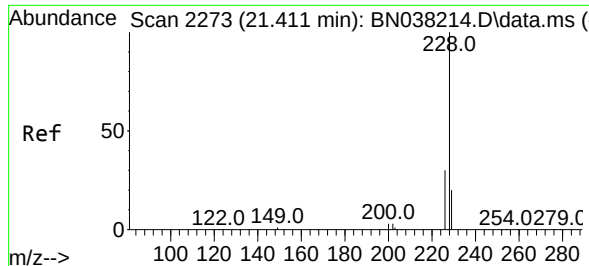
Tgt Ion:244 Resp: 127791
Ion Ratio Lower Upper
244 100
212 9.0 7.7 11.5
122 16.5 13.6 20.4



#32
Benzo(a)anthracene
Concen: 3.357 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:228 Resp: 186737
Ion Ratio Lower Upper
228 100
226 27.9 22.6 33.8
229 19.3 15.8 23.8





#33

Chrysene

Concen: 3.085 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

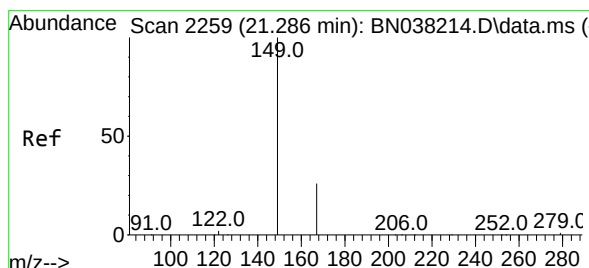
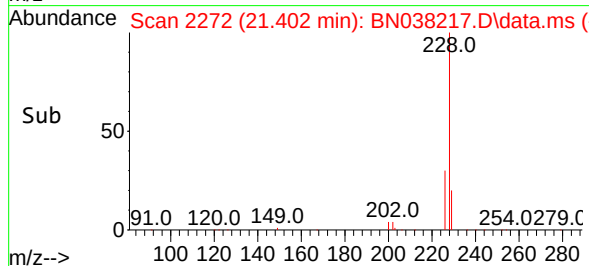
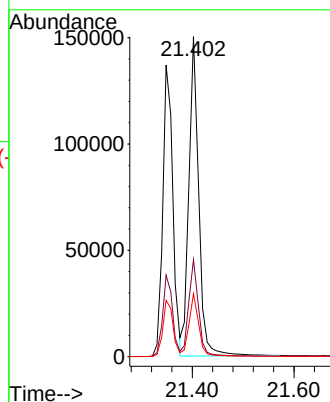
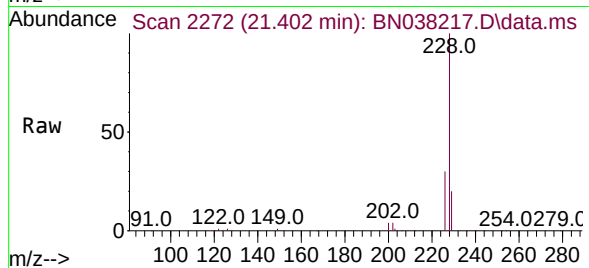
Tgt Ion:228 Resp: 202547

Ion Ratio Lower Upper

228 100

226 30.3 23.8 35.8

229 19.6 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.194 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

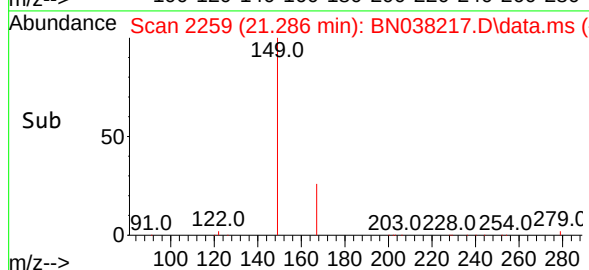
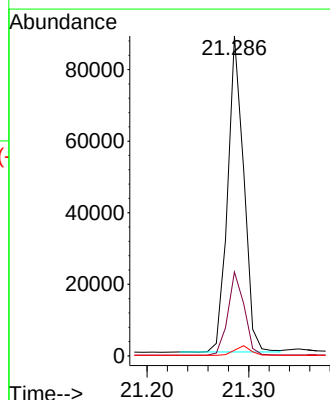
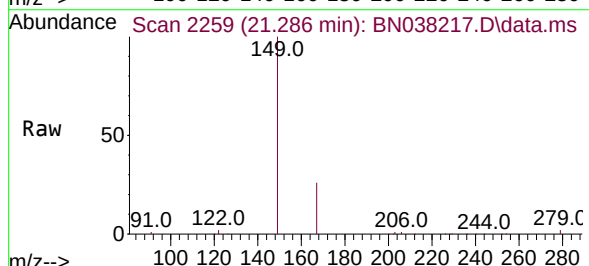
Tgt Ion:149 Resp: 97307

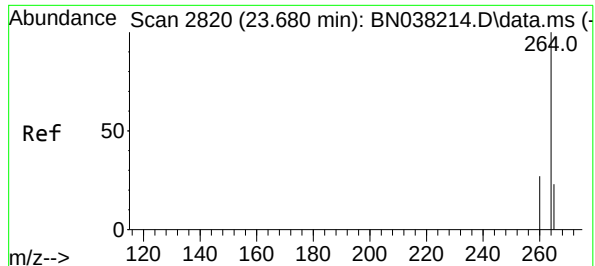
Ion Ratio Lower Upper

149 100

167 26.6 20.7 31.1

279 3.1 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038217.D

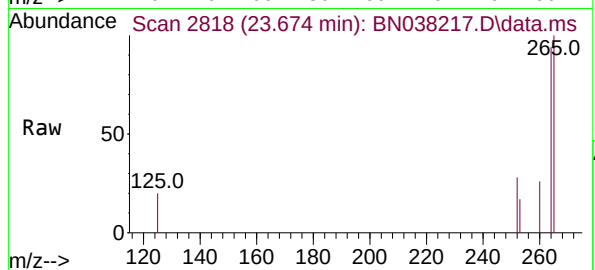
Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



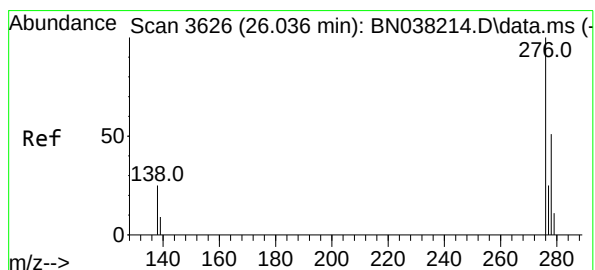
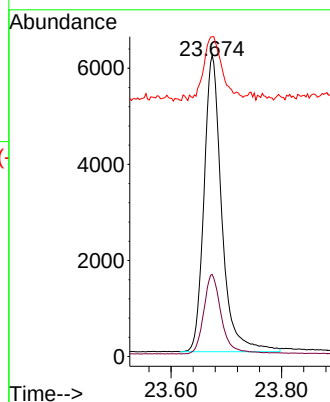
Tgt Ion:264 Resp: 13786

Ion Ratio Lower Upper

264 100

260 27.3 21.7 32.5

265 106.2 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 26.025 min Scan# 3622

Delta R.T. -0.011 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

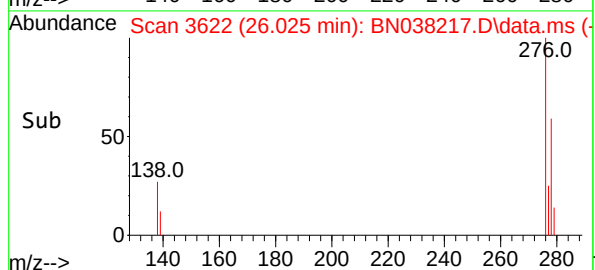
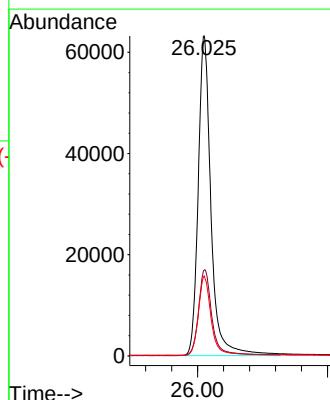
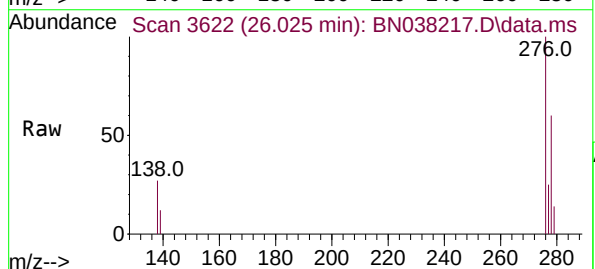
Tgt Ion:276 Resp: 216471

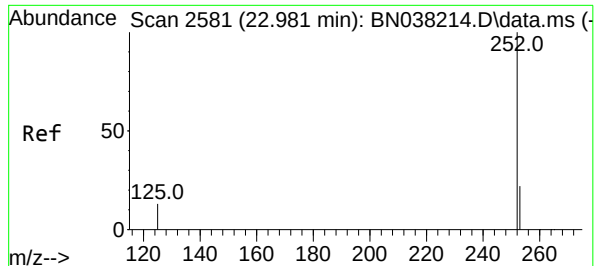
Ion Ratio Lower Upper

276 100

138 27.7 21.4 32.2

277 24.8 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 3.354 ng

RT: 22.979 min Scan# 2580

Delta R.T. -0.003 min

Lab File: BN038217.D

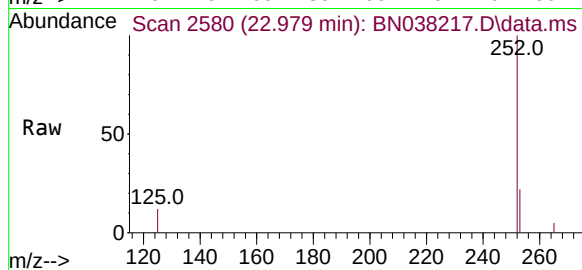
Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



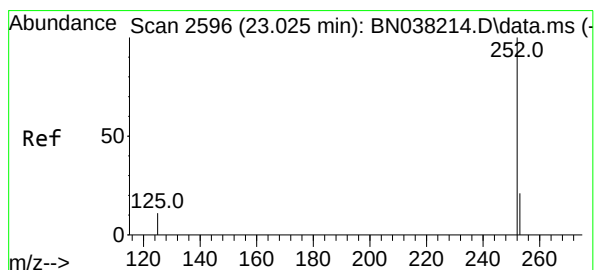
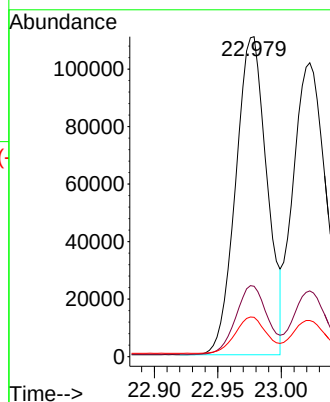
Tgt Ion:252 Resp: 189788

Ion Ratio Lower Upper

252 100

253 22.0 22.2 33.4#

125 12.3 18.0 27.0#



#38

Benzo(k)fluoranthene

Concen: 3.329 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

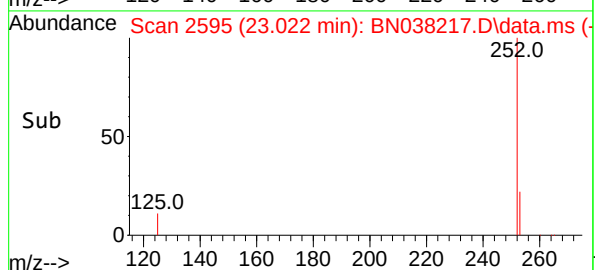
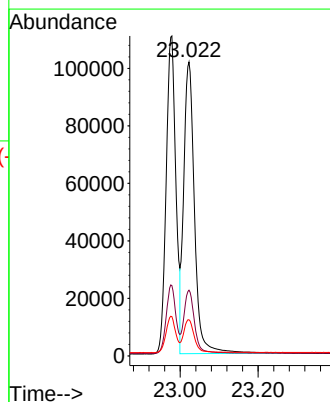
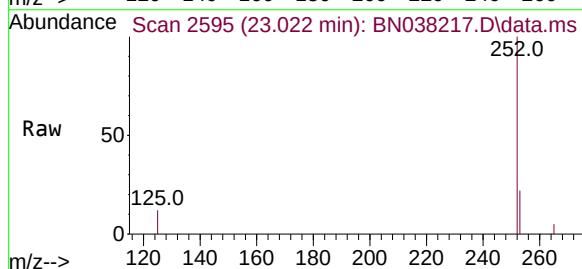
Tgt Ion:252 Resp: 195835

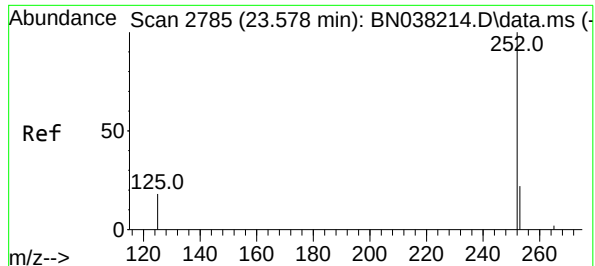
Ion Ratio Lower Upper

252 100

253 22.4 22.4 33.6#

125 12.3 17.5 26.3#





#39

Benzo(a)pyrene

Concen: 3.289 ng

RT: 23.572 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

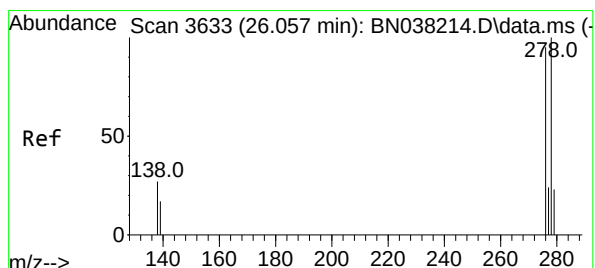
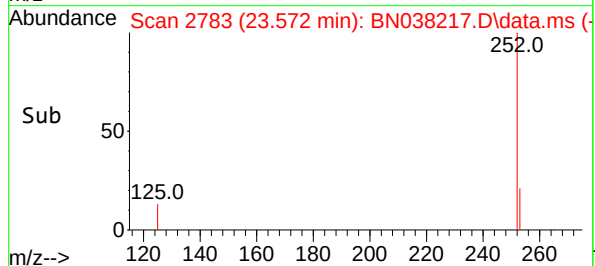
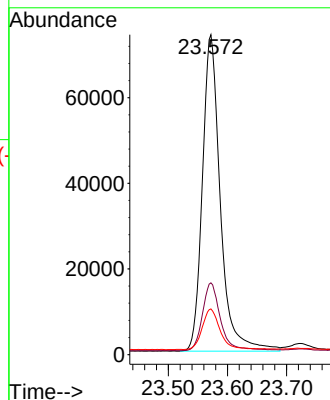
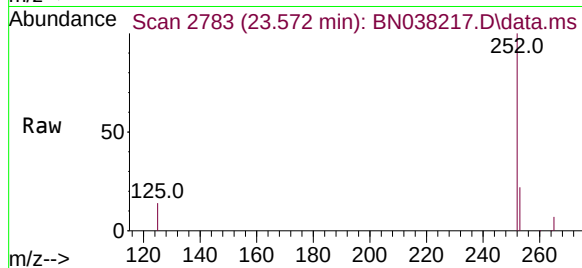
Tgt Ion:252 Resp: 156001

Ion Ratio Lower Upper

252 100

253 22.4 25.3 37.9#

125 14.3 25.2 37.8#



#40

Dibenzo(a,h)anthracene

Concen: 3.518 ng

RT: 26.040 min Scan# 3627

Delta R.T. -0.017 min

Lab File: BN038217.D

Acq: 26 Nov 2025 23:37

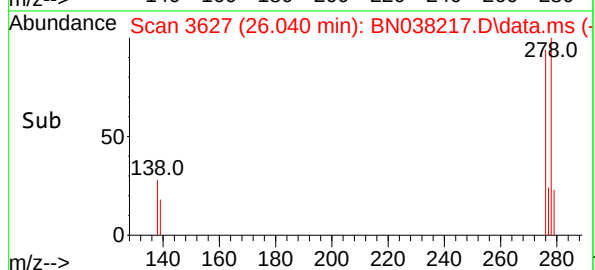
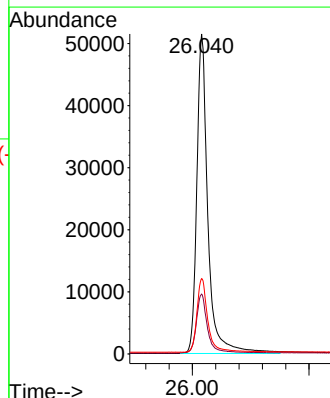
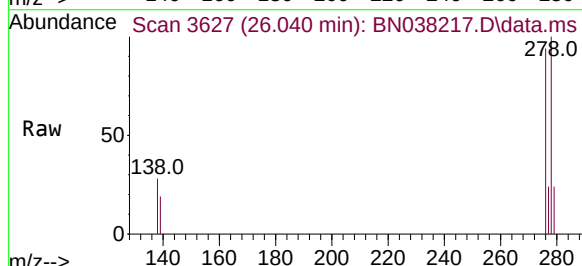
Tgt Ion:278 Resp: 169926

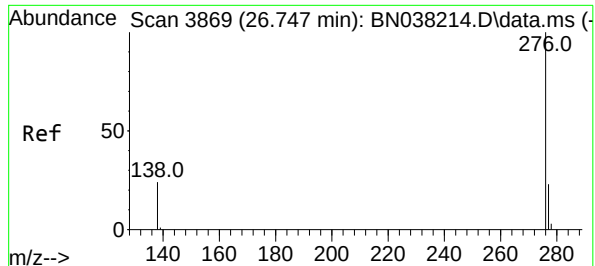
Ion Ratio Lower Upper

278 100

139 18.7 17.6 26.4

279 23.5 24.2 36.4#





#41

Benzo(g,h,i)perylene

Concen: 3.242 ng

RT: 26.738 min Scan# 38

Delta R.T. -0.009 min

Lab File: BN038217.D

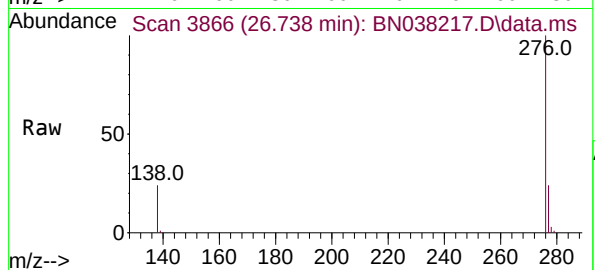
Acq: 26 Nov 2025 23:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



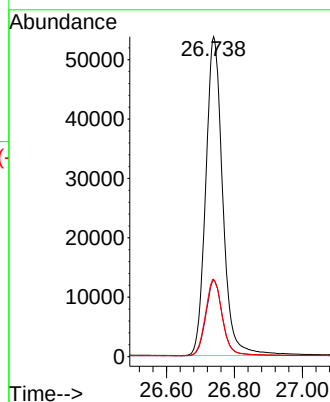
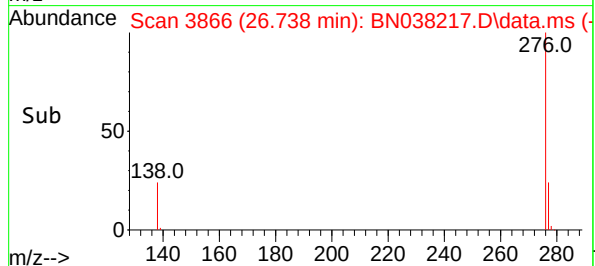
Tgt Ion:276 Resp: 186060

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.2

138 24.2 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038218.D
 Acq On : 27 Nov 2025 00:13
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Nov 28 20:56:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

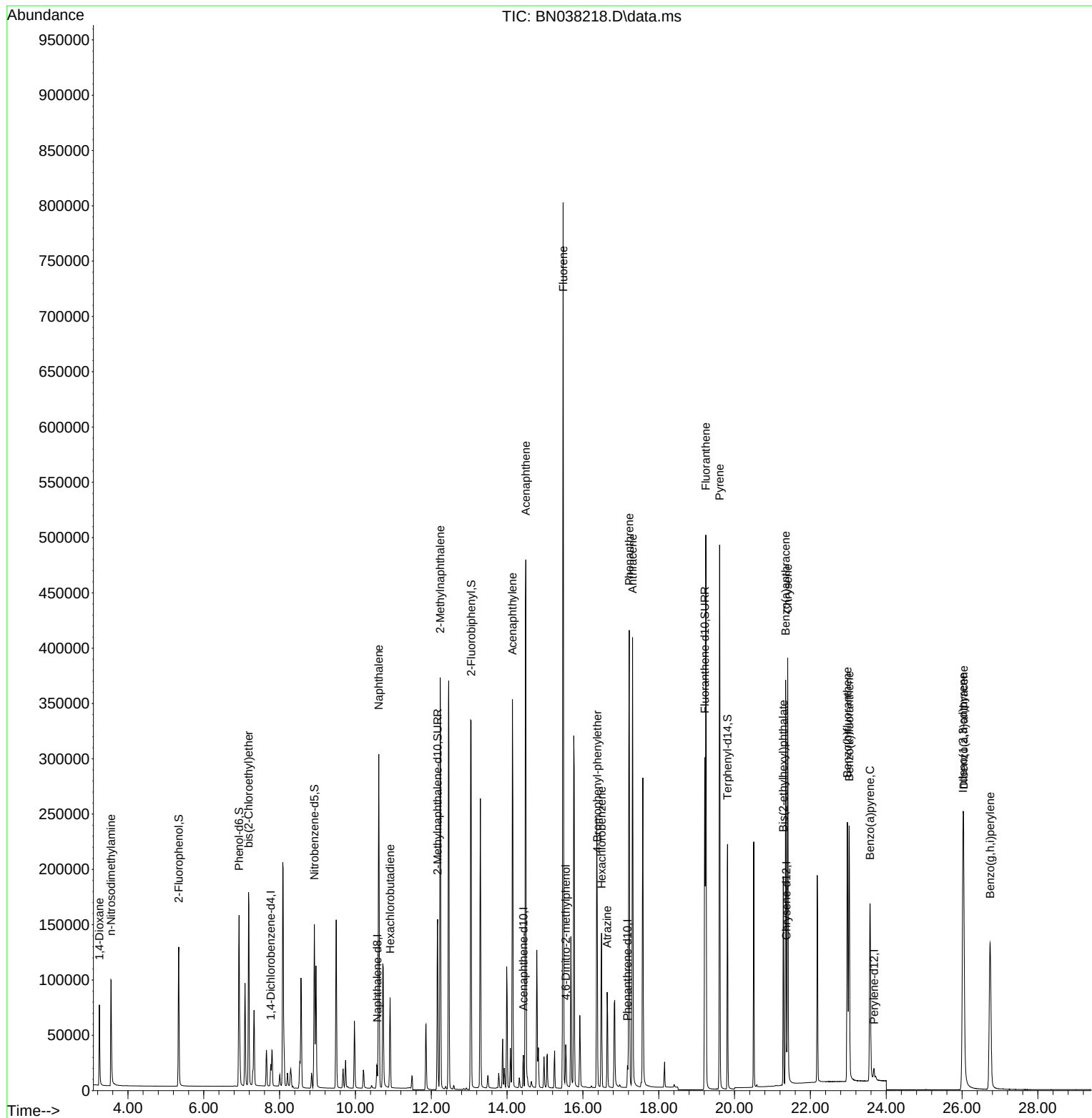
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	9425	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	28584	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	16460	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	28173	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	17259	0.400	ng	# 0.00
35) Perylene-d12	23.677	264	14227	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	105128	4.772	ng	0.00
5) Phenol-d6	6.930	99	140266	5.096	ng	0.00
8) Nitrobenzene-d5	8.918	82	111113	4.861	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	206762	5.096	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.051	172	300119	4.720	ng	0.00
27) Fluoranthene-d10	19.215	212	316915	5.186	ng	0.00
31) Terphenyl-d14	19.815	244	204734	5.136	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.247	88	44504	4.482	ng	100
3) n-Nitrosodimethylamine	3.550	42	60047	4.904	ng	# 95
6) bis(2-Chloroethyl)ether	7.183	93	128213	4.866	ng	98
9) Naphthalene	10.616	128	386463	4.869	ng	99
10) Hexachlorobutadiene	10.915	225	63118	4.675	ng	# 99
12) 2-Methylnaphthalene	12.238	142	264783	5.069	ng	99
16) Acenaphthylene	14.142	152	386815	5.255	ng	100
17) Acenaphthene	14.494	154	259349	5.054	ng	97
18) Fluorene	15.478	166	350358	5.275	ng	99
20) 4,6-Dinitro-2-methylph...	15.547	198	24887	4.740	ng	# 13
21) 4-Bromophenyl-phenylether	16.379	248	98459	5.044	ng	# 89
22) Hexachlorobenzene	16.491	284	108089	4.503	ng	100
23) Atrazine	16.640	200	70335	5.642	ng	# 91
25) Phenanthrene	17.223	178	443212	5.011	ng	99
26) Anthracene	17.310	178	410739	5.443	ng	99
28) Fluoranthene	19.243	202	445842	5.231	ng	99
30) Pyrene	19.606	202	432809	5.021	ng	100
32) Benzo(a)anthracene	21.348	228	303930	5.200	ng	99
33) Chrysene	21.402	228	322253	4.672	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	160858	5.026	ng	98
36) Indeno(1,2,3-cd)pyrene	26.022	276	348640	5.295	ng	98
37) Benzo(b)fluoranthene	22.975	252	300462	5.145	ng	# 84
38) Benzo(k)fluoranthene	23.022	252	309850	5.104	ng	# 84
39) Benzo(a)pyrene	23.575	252	252042	5.149	ng	# 75
40) Dibenzo(a,h)anthracene	26.042	278	272232	5.462	ng	# 90
41) Benzo(g,h,i)perylene	26.741	276	296912	5.013	ng	96

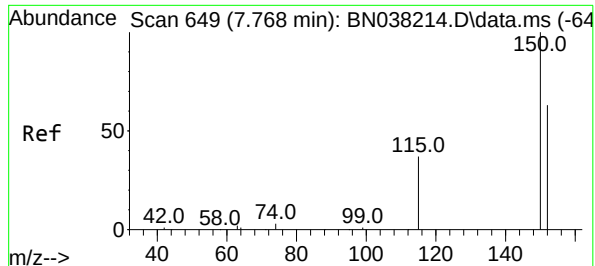
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN038218.D
Acq On : 27 Nov 2025 00:13
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 28 20:56:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

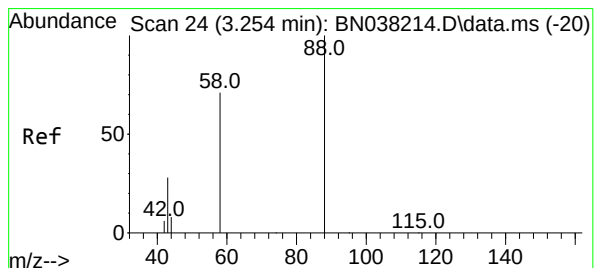
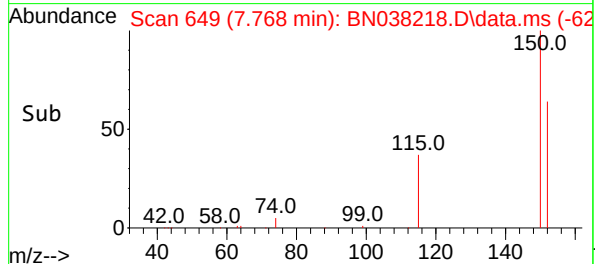
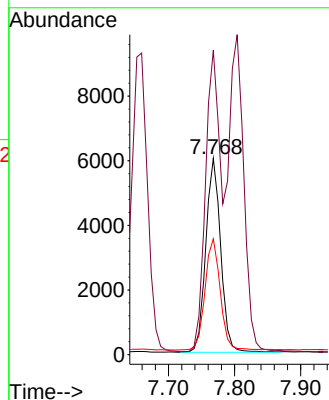
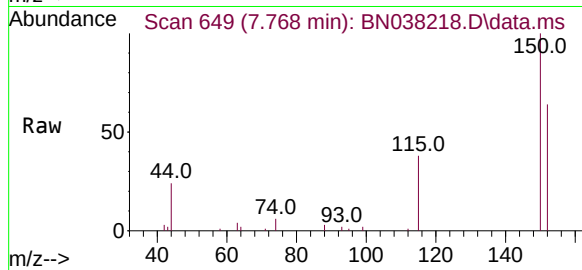




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

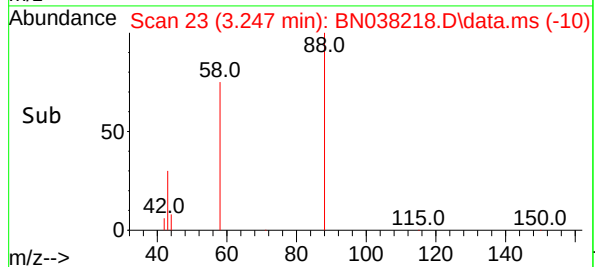
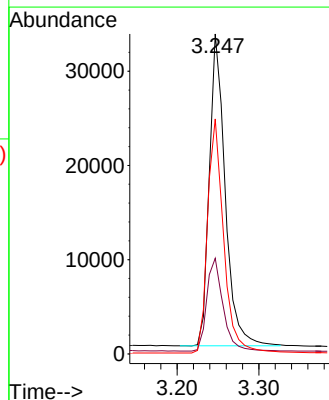
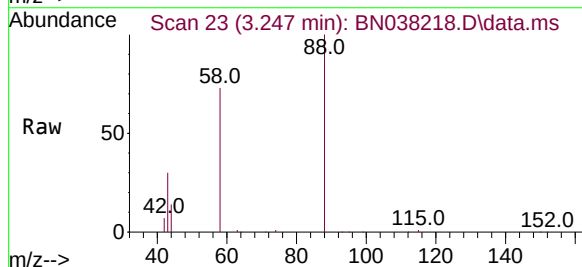
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

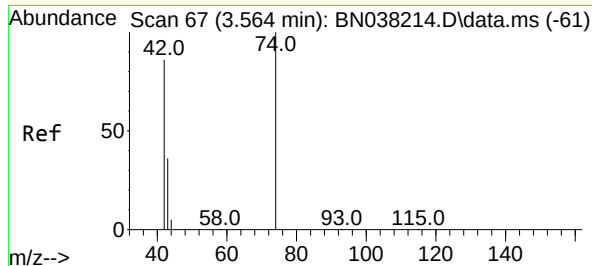
Tgt Ion:152 Resp: 9425
Ion Ratio Lower Upper
152 100
150 155.1 125.3 187.9
115 58.9 49.0 73.4



#2
1,4-Dioxane
Concen: 4.482 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 88 Resp: 44504
Ion Ratio Lower Upper
88 100
43 30.5 24.8 37.2
58 76.3 61.1 91.7

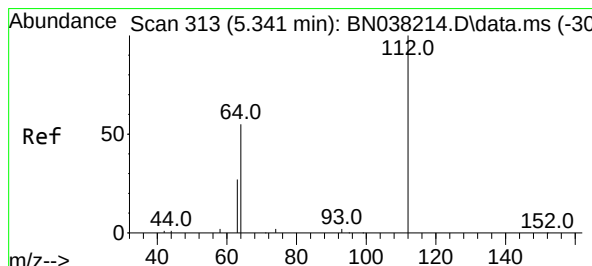
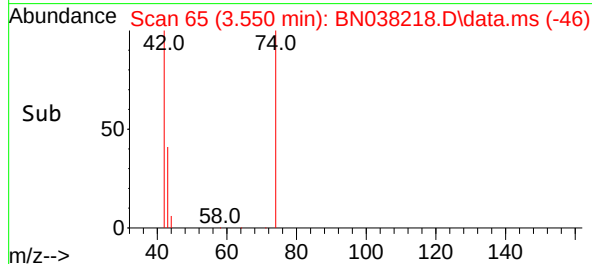
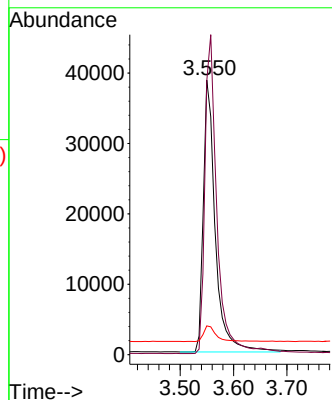
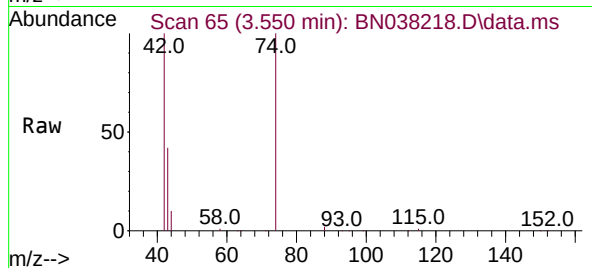




#3
n-Nitrosodimethylamine
Concen: 4.904 ng
RT: 3.550 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

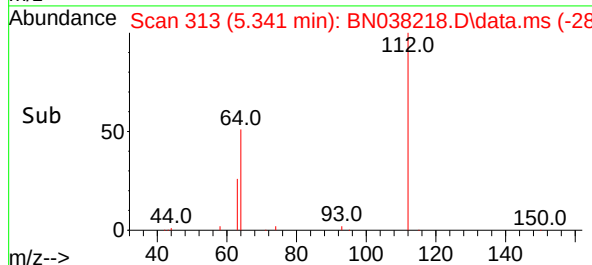
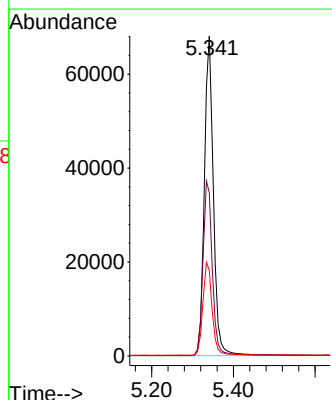
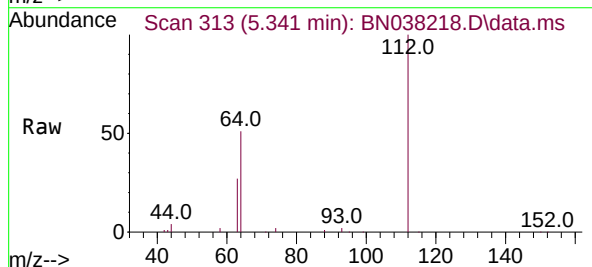
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

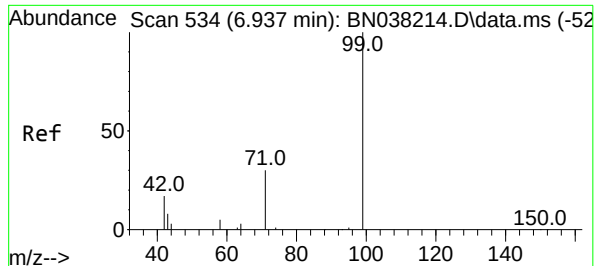
Tgt Ion: 42 Resp: 60047
Ion Ratio Lower Upper
42 100
74 115.5 96.2 144.2
44 6.0 8.0 12.0#



#4
2-Fluorophenol
Concen: 4.772 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 112 Resp: 105128
Ion Ratio Lower Upper
112 100
64 56.4 45.0 67.4
63 29.8 23.2 34.8

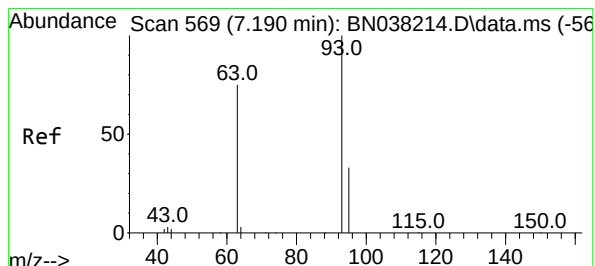
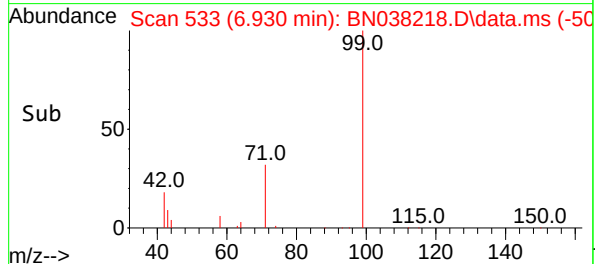
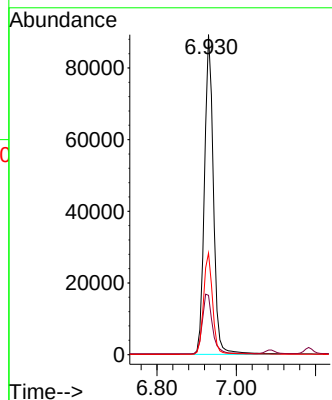
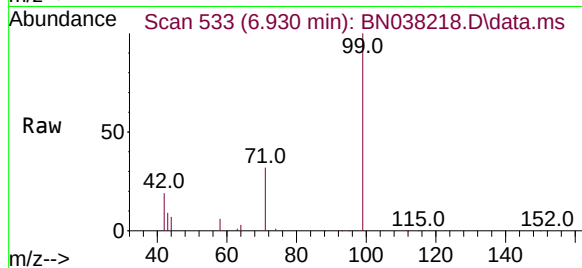




#5
Phenol-d6
Concen: 5.096 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

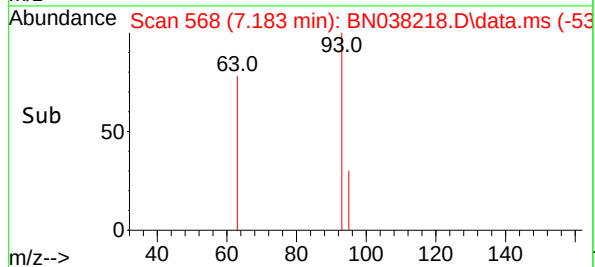
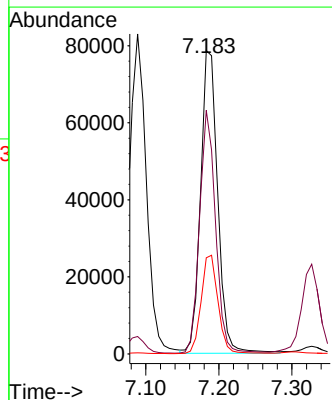
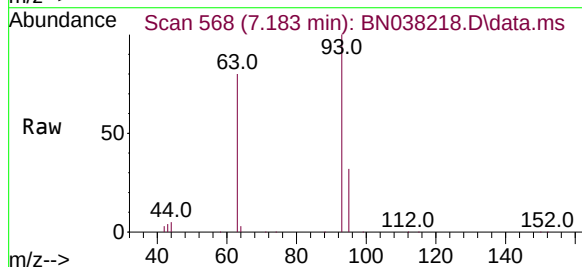
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

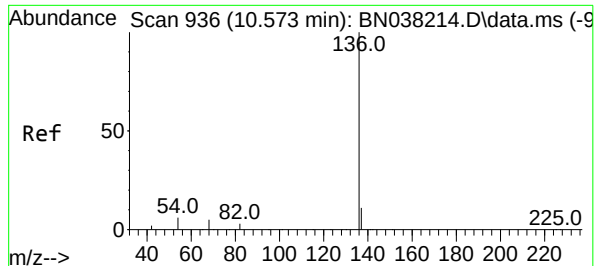
Tgt Ion: 99 Resp: 140266
Ion Ratio Lower Upper
99 100
42 20.9 17.0 25.6
71 32.1 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 4.866 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 93 Resp: 128213
Ion Ratio Lower Upper
93 100
63 74.8 58.1 87.1
95 31.9 25.1 37.7

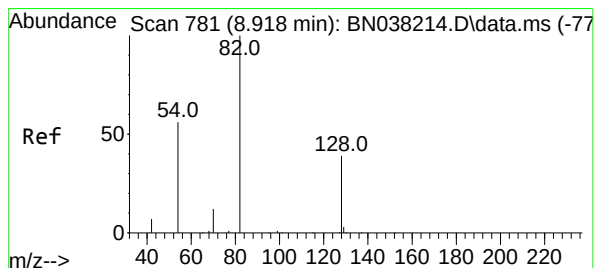
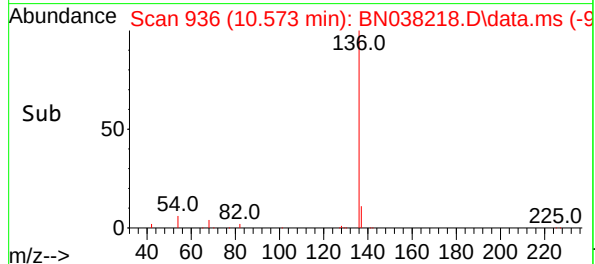
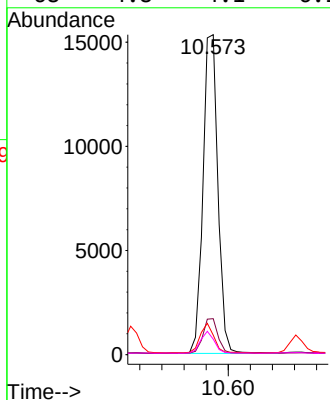
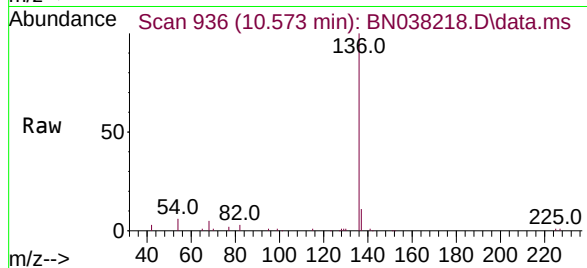




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

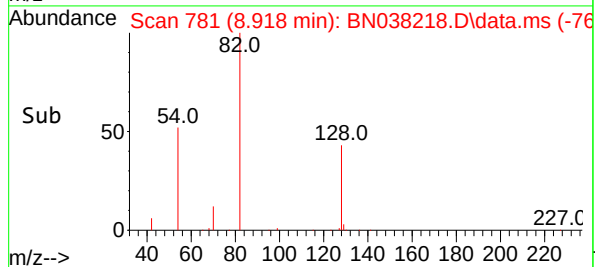
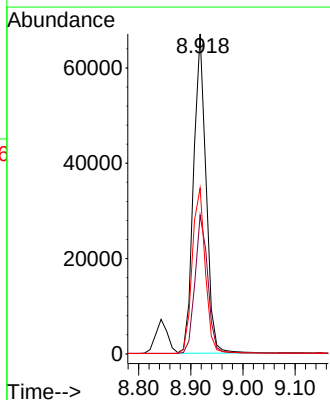
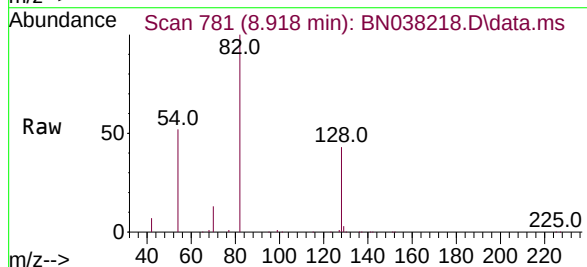
Instrument :
BNA_N
ClientSampleId :
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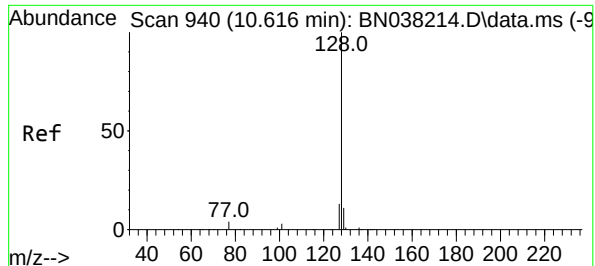
Tgt Ion:	136	Resp:	28584
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	6.1	5.4	8.0
68	4.8	4.1	6.1



#8
Nitrobenzene-d5
Concen: 4.861 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:	82	Resp:	111113
Ion	Ratio	Lower	Upper
82	100		
128	43.4	32.6	48.8
54	51.8	45.4	68.0

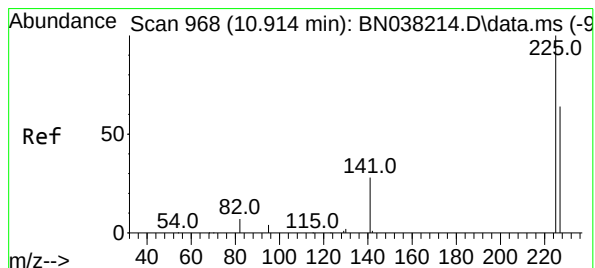
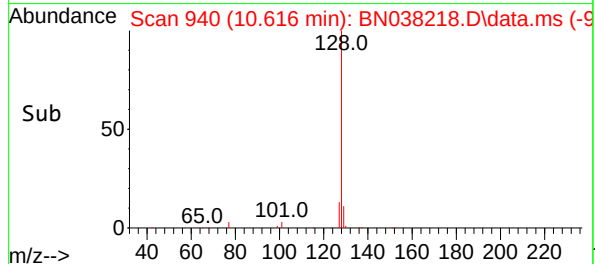
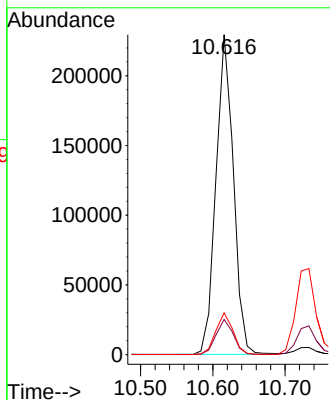
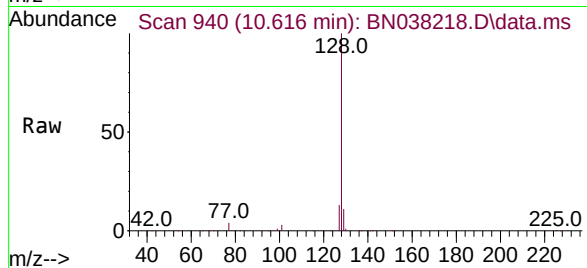




#9
Naphthalene
Concen: 4.869 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

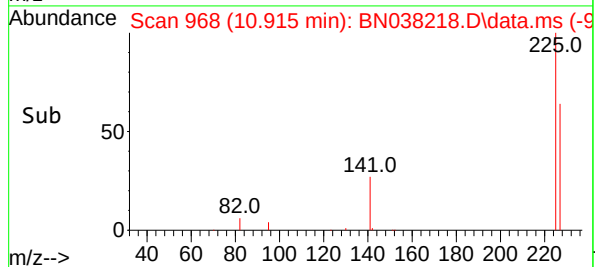
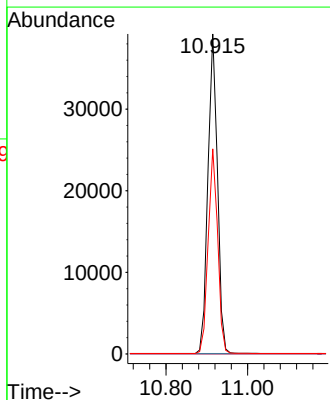
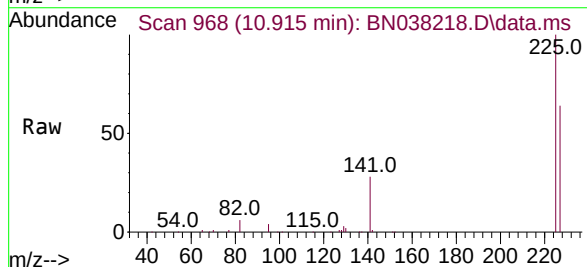
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

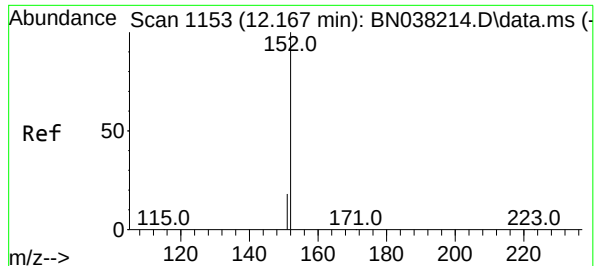
Tgt Ion:128 Resp: 386463
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.0 10.6 16.0



#10
Hexachlorobutadiene
Concen: 4.675 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:225 Resp: 63118
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.5 75.7

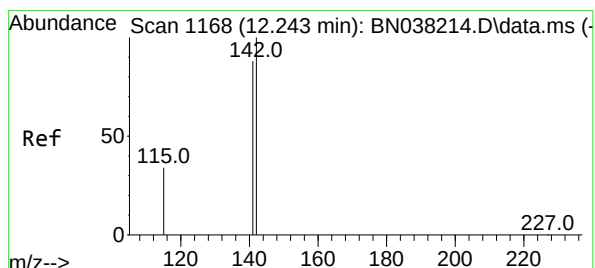
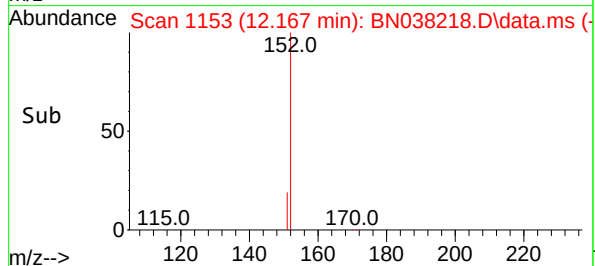
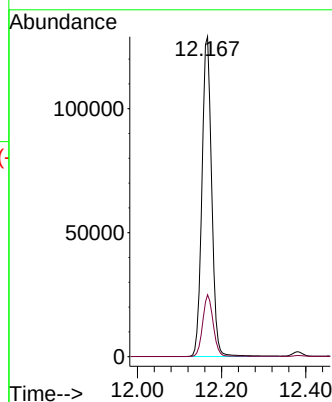
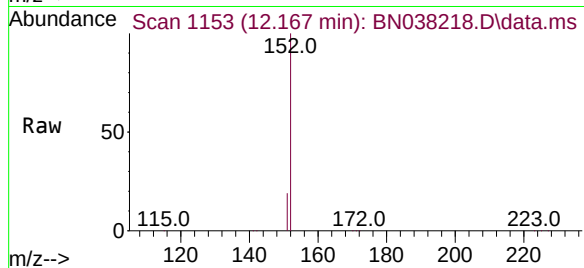




#11
2-Methylnaphthalene-d10
Concen: 5.096 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

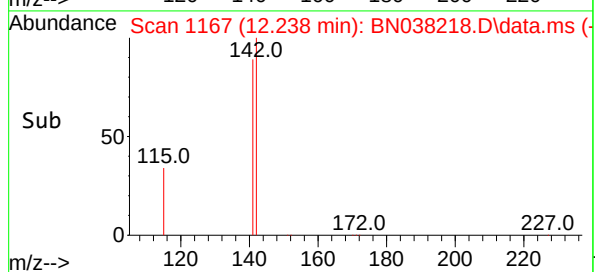
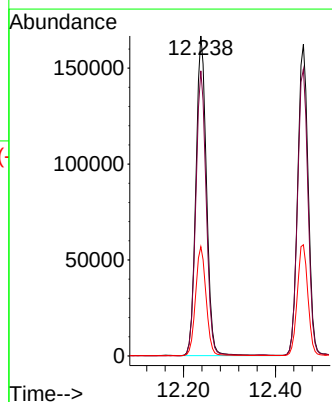
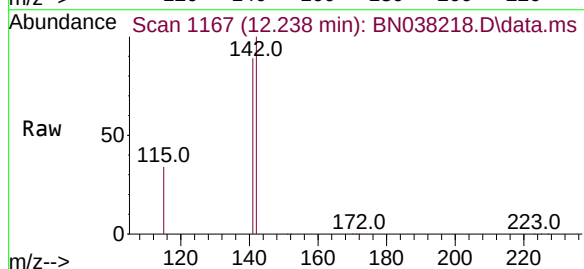
Instrument :
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ClientSampleId :
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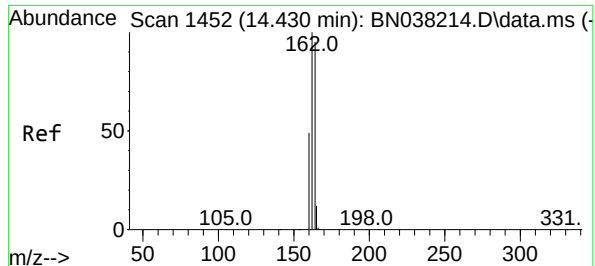
Tgt Ion:152 Resp: 206762
Ion Ratio Lower Upper
152 100
151 20.8 16.7 25.1



#12
2-Methylnaphthalene
Concen: 5.069 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:142 Resp: 264783
Ion Ratio Lower Upper
142 100
141 89.1 70.9 106.3
115 34.1 27.7 41.5

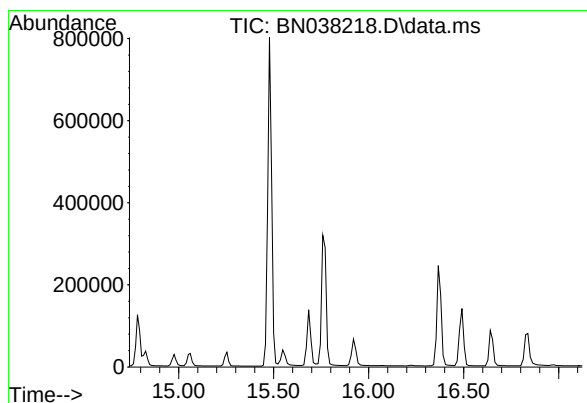
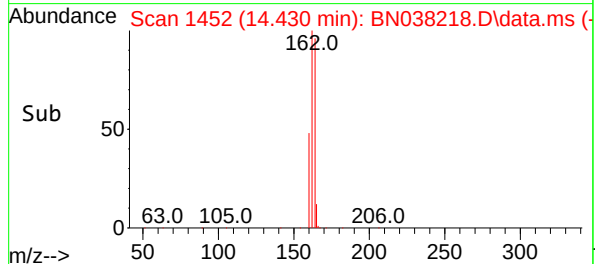
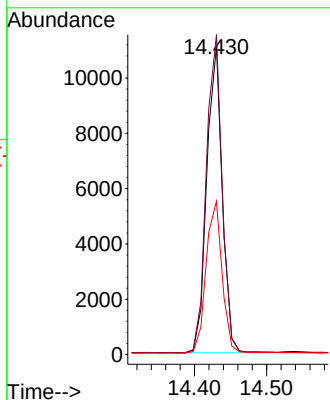
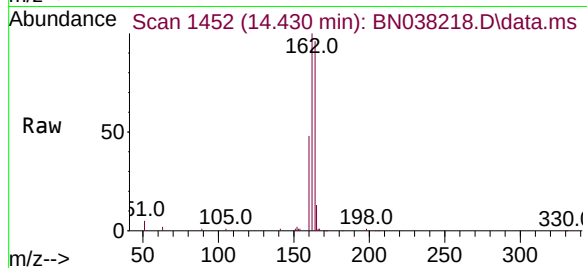




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

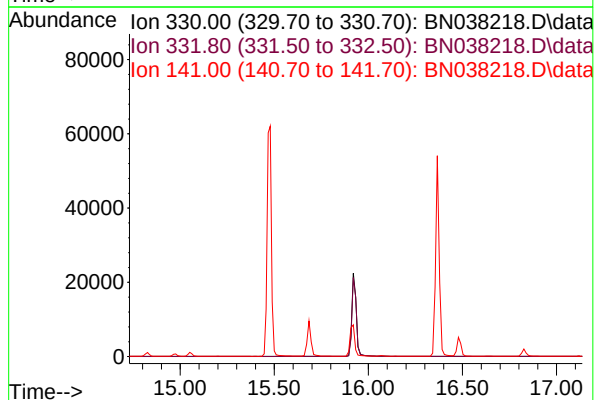
Tgt Ion:164 Resp: 16460
Ion Ratio Lower Upper
164 100
162 103.8 83.8 125.8
160 49.7 41.6 62.4

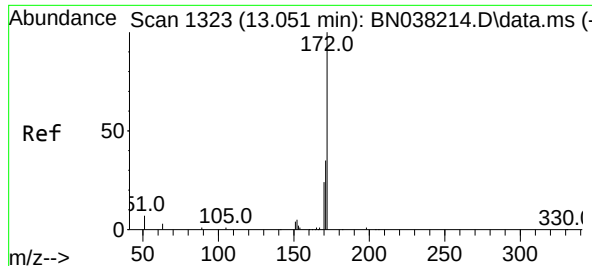


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.93 min

Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 330
Sig Exp Ratio
330 100
332 97.2
141 41.2

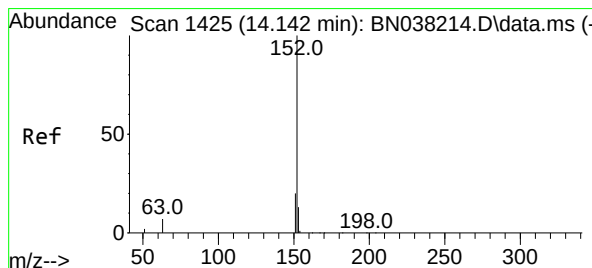
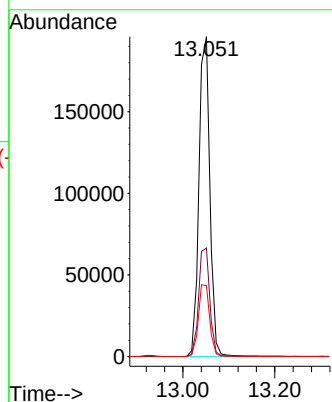
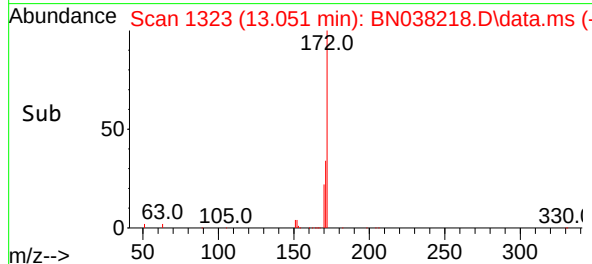
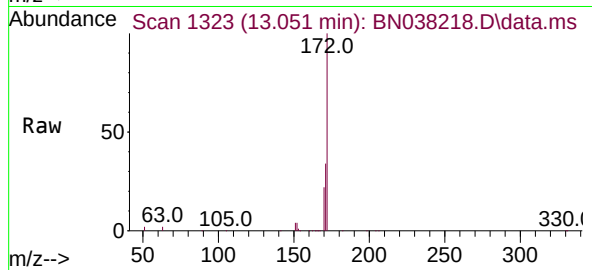




#15
2-Fluorobiphenyl
Concen: 4.720 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

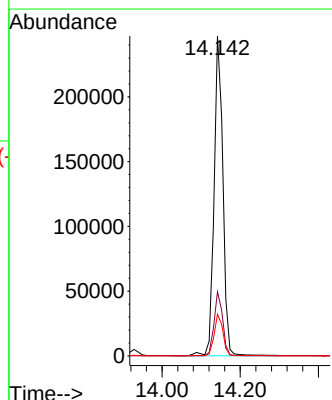
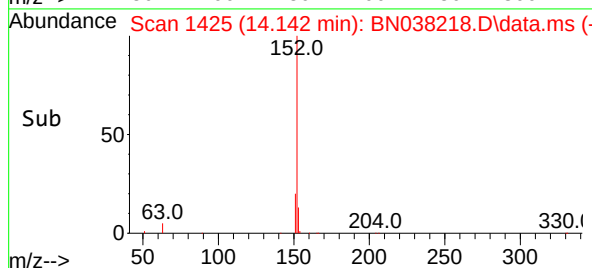
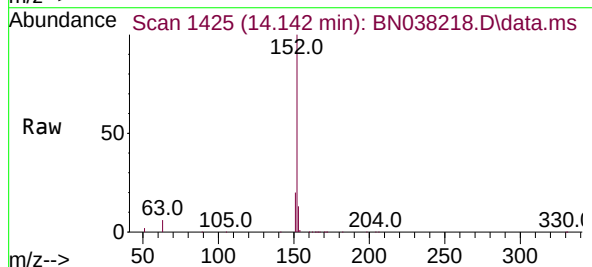
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

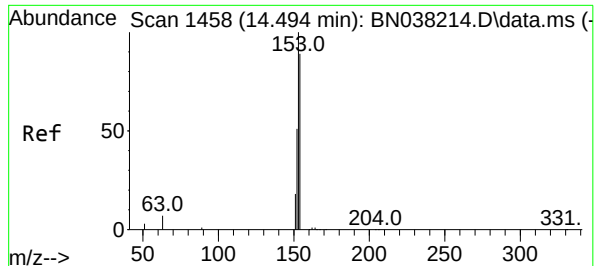
Tgt Ion:172 Resp: 300119
Ion Ratio Lower Upper
172 100
171 33.9 28.1 42.1
170 22.2 19.1 28.7



#16
Acenaphthylene
Concen: 5.255 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:152 Resp: 386815
Ion Ratio Lower Upper
152 100
151 19.6 15.6 23.4
153 13.1 10.6 15.8

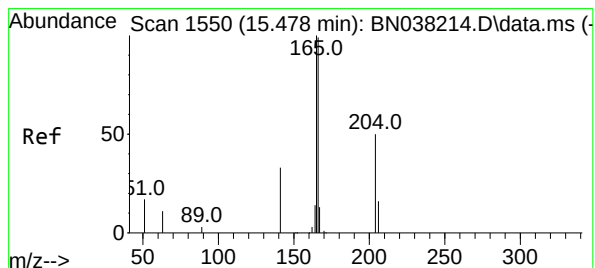
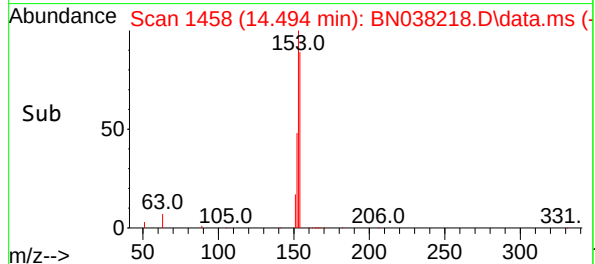
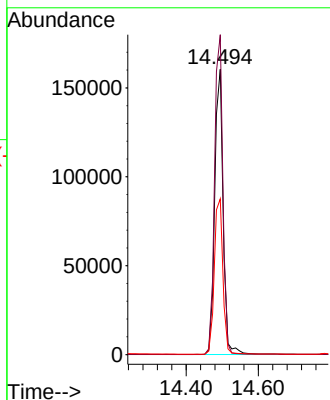
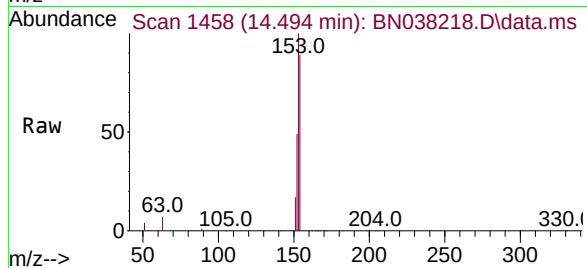




#17
Acenaphthene
Concen: 5.054 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

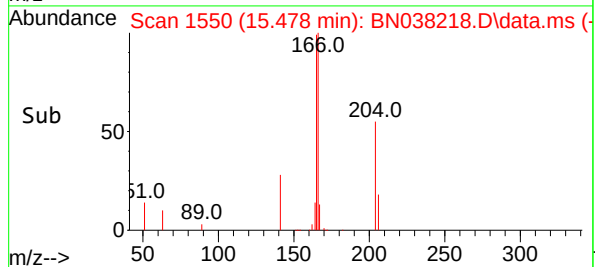
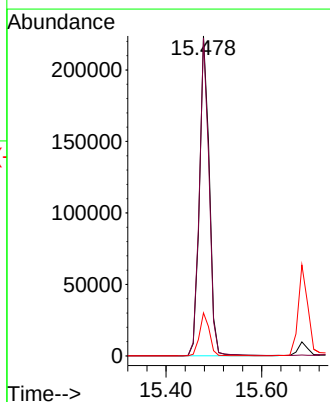
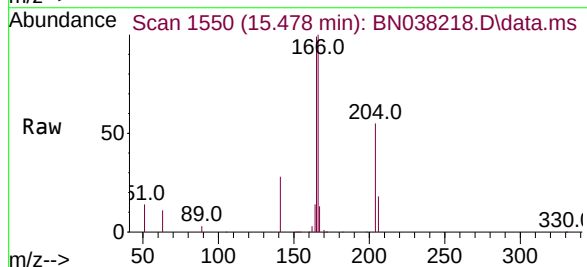
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

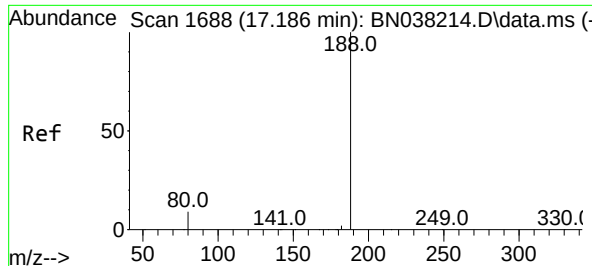
Tgt Ion:154 Resp: 259349
Ion Ratio Lower Upper
154 100
153 111.4 91.1 136.7
152 56.0 48.2 72.2



#18
Fluorene
Concen: 5.275 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:166 Resp: 350358
Ion Ratio Lower Upper
166 100
165 97.2 78.7 118.1
167 13.3 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

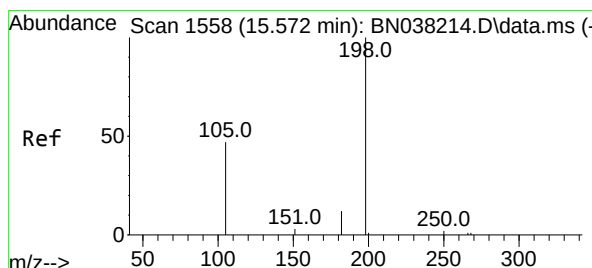
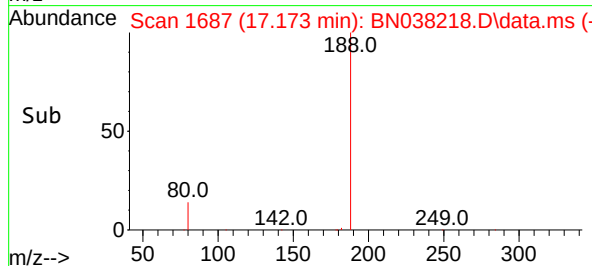
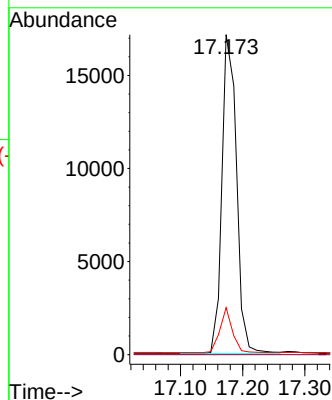
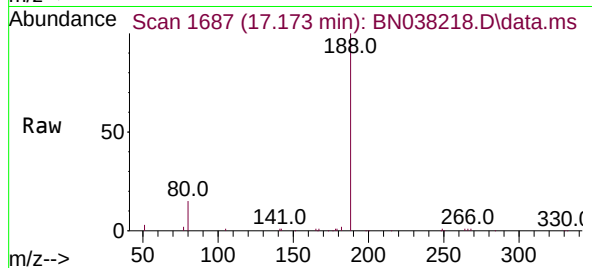
Tgt Ion:188 Resp: 28173

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.7 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 4.740 ng

RT: 15.547 min Scan# 1556

Delta R.T. -0.025 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

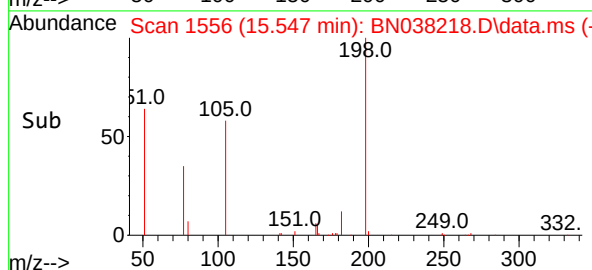
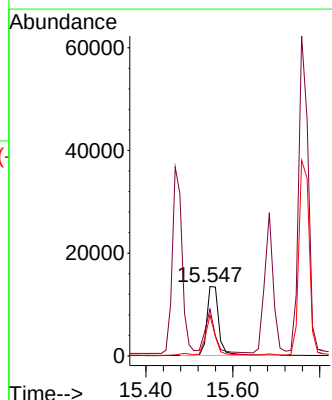
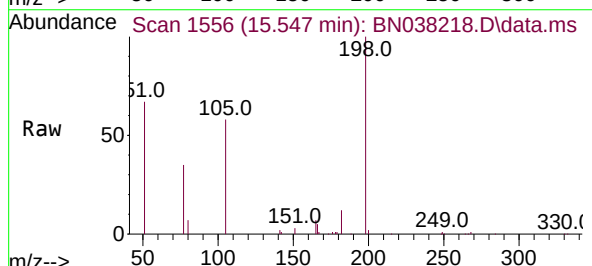
Tgt Ion:198 Resp: 24887

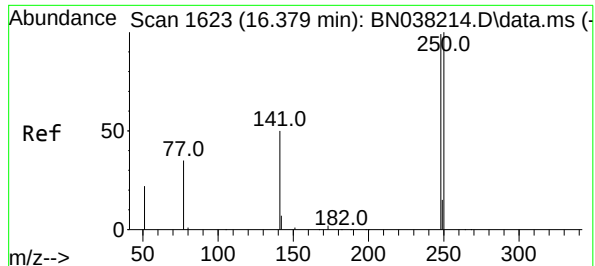
Ion Ratio Lower Upper

198 100

51 67.1 205.1 307.7#

105 58.3 61.6 92.4#

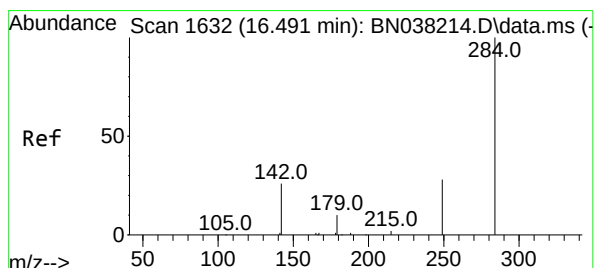
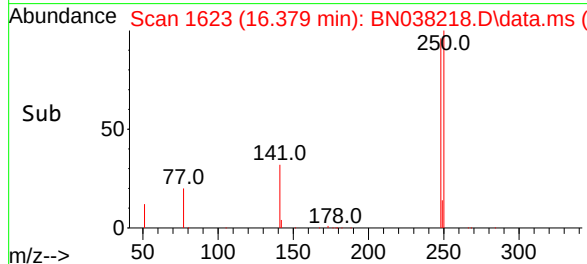
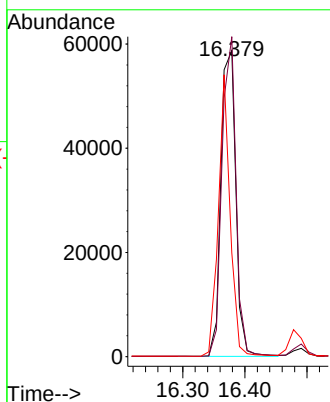
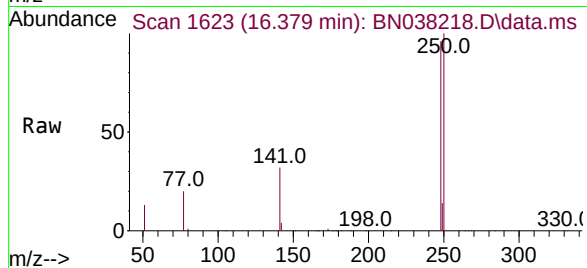




#21
4-Bromophenyl-phenylether
Concen: 5.044 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

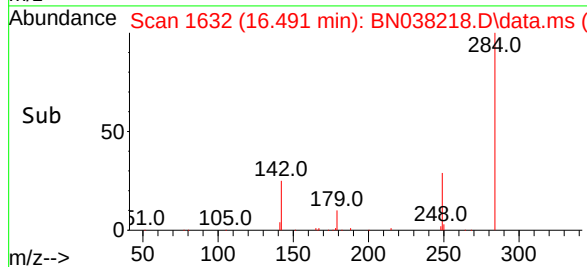
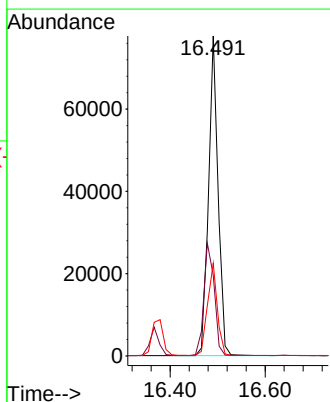
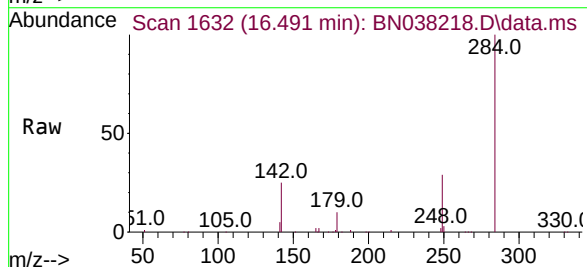
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

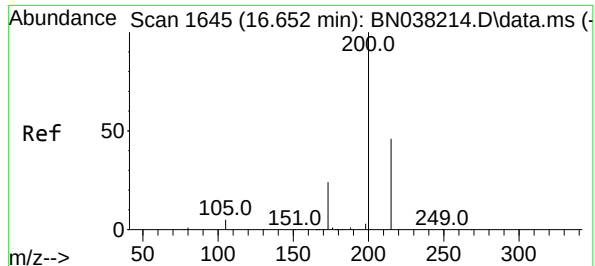
Tgt Ion	248	250	141
Resp:	98459		
Ion Ratio	100	104.5	33.9
Lower		80.8	41.0
Upper		121.2	61.6



#22
Hexachlorobenzene
Concen: 4.503 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion	284	142	249
Resp:	108089		
Ion Ratio	100	38.3	29.7
Lower		30.5	23.8
Upper		45.7	35.8

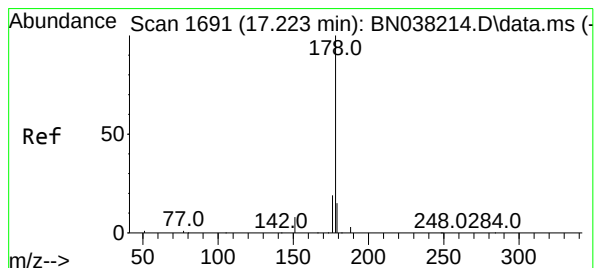
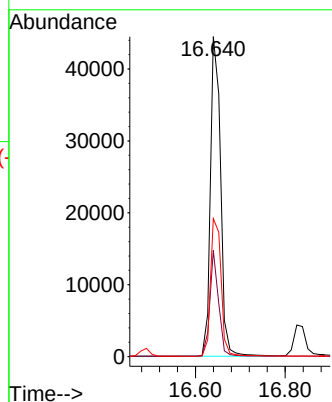
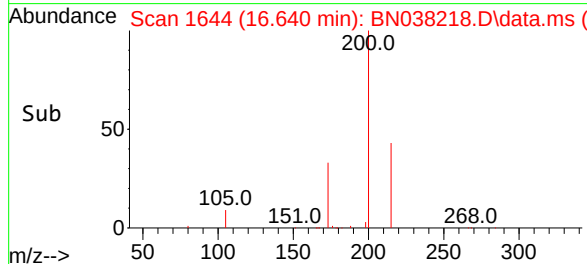
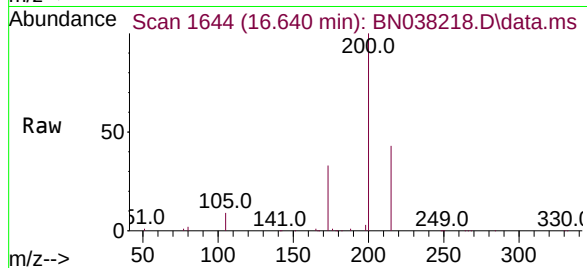




#23
Atrazine
Concen: 5.642 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

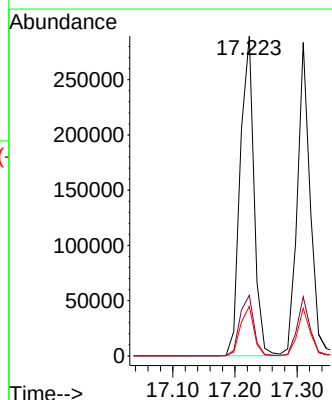
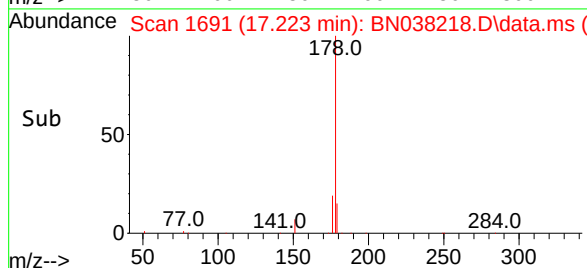
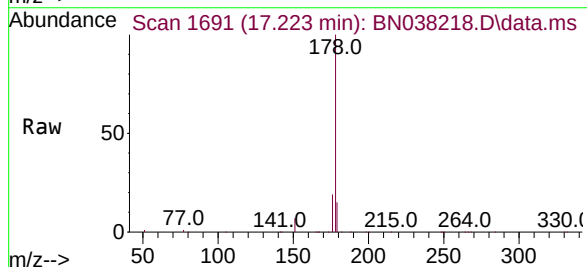
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

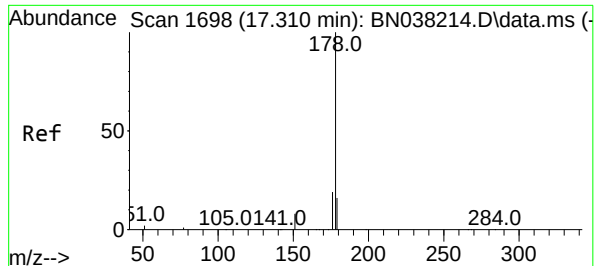
Tgt Ion:200 Resp: 70335
Ion Ratio Lower Upper
200 100
173 33.2 21.0 31.6#
215 43.2 37.8 56.8



#25
Phenanthrene
Concen: 5.011 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:178 Resp: 443212
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.2 12.0 18.0

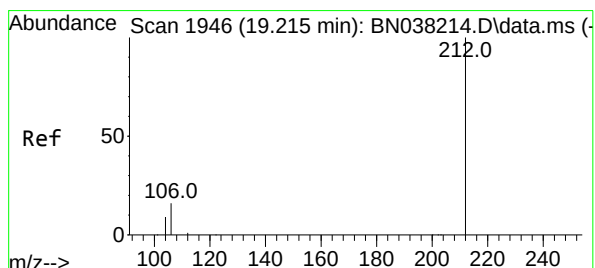
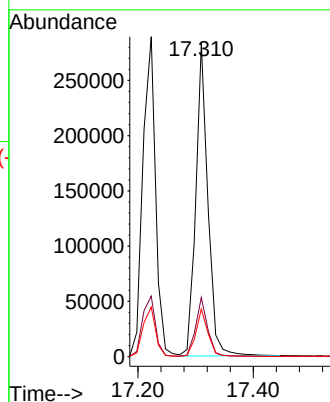
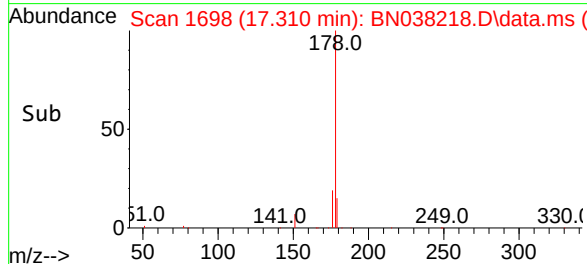
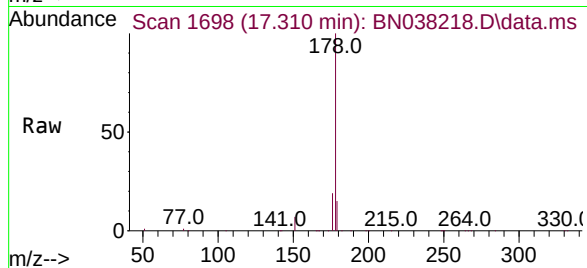




#26
Anthracene
Concen: 5.443 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

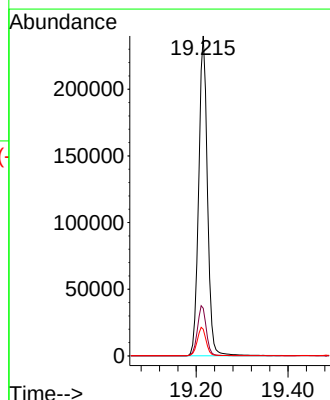
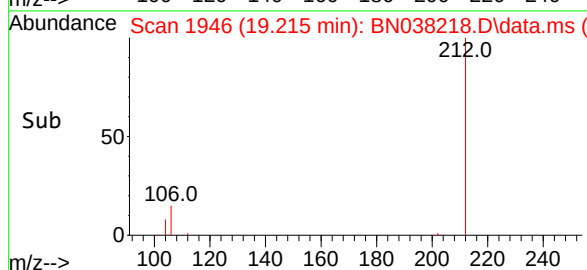
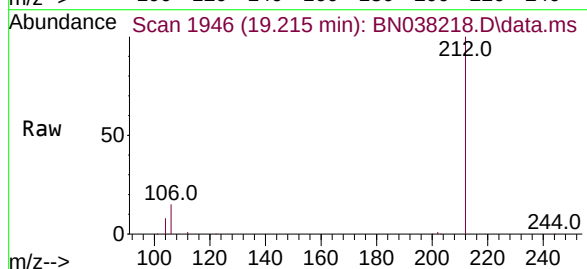
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

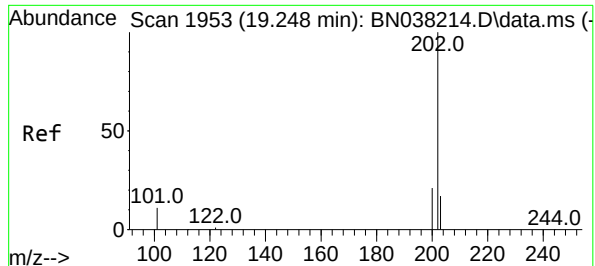
Tgt Ion:178 Resp: 410739
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 15.2 12.3 18.5



#27
Fluoranthene-d10
Concen: 5.186 ng
RT: 19.215 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:212 Resp: 316915
Ion Ratio Lower Upper
212 100
106 15.8 12.7 19.1
104 8.9 7.3 10.9

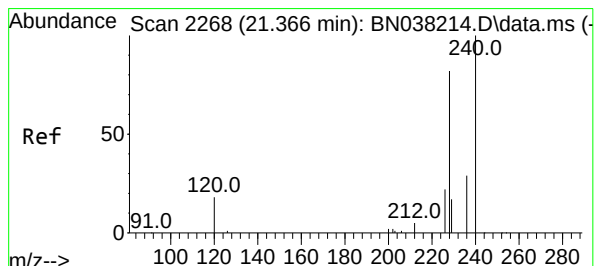
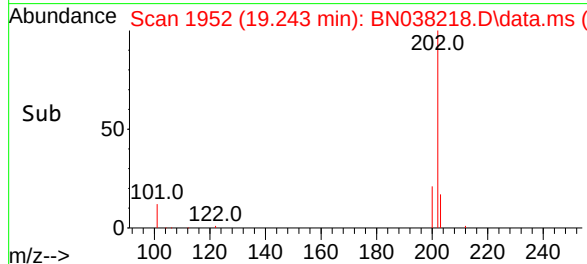
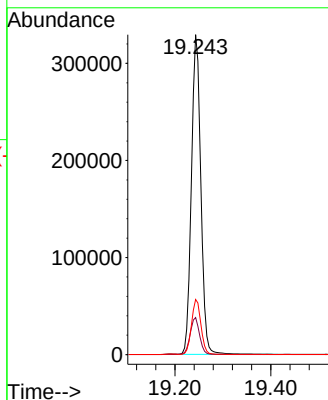
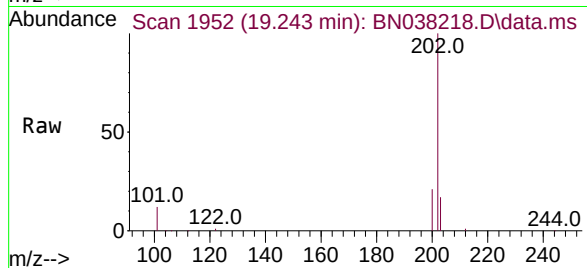




#28
Fluoranthene
Concen: 5.231 ng
RT: 19.243 min Scan# 1953
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

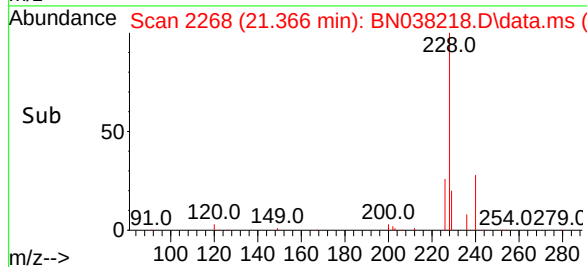
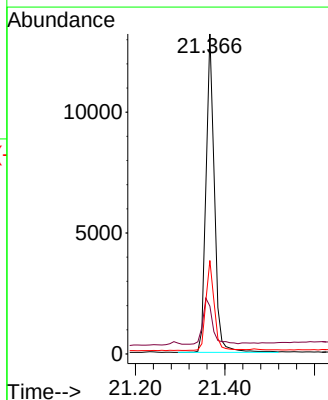
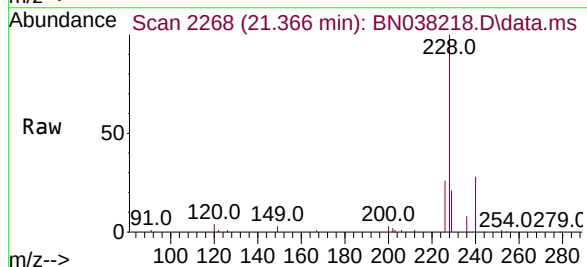
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

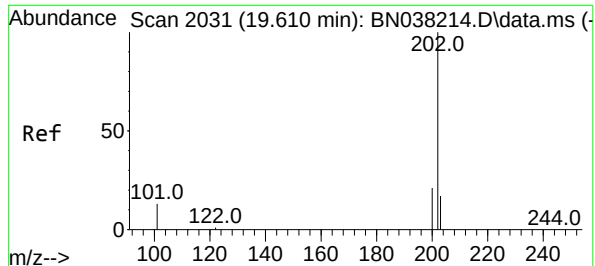
Tgt Ion:202 Resp: 445842
Ion Ratio Lower Upper
202 100
101 11.8 9.8 14.6
203 17.3 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:240 Resp: 17259
Ion Ratio Lower Upper
240 100
120 14.9 18.1 27.1#
236 29.2 24.2 36.4





#30

Pyrene

Concen: 5.021 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

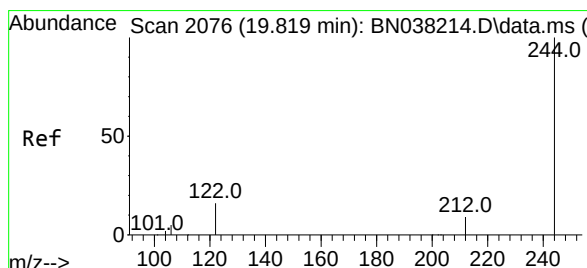
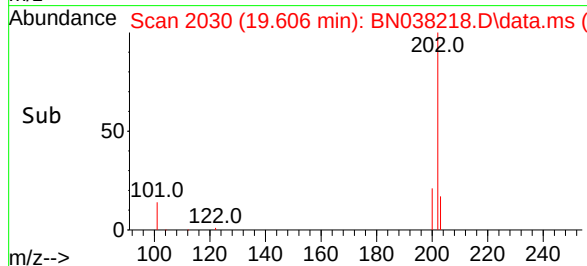
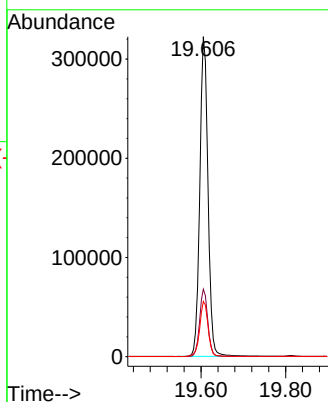
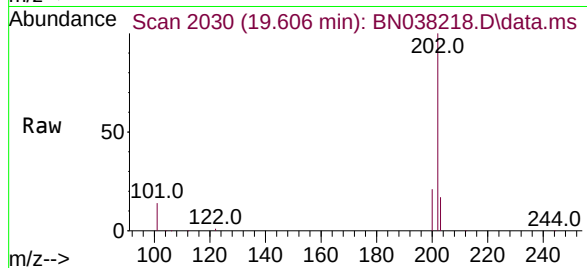
Tgt Ion:202 Resp: 432809

Ion	Ratio	Lower	Upper

202	100		

200	21.1	16.8	25.2

203	17.7	14.4	21.6



#31

Terphenyl-d14

Concen: 5.136 ng

RT: 19.815 min Scan# 2075

Delta R.T. -0.005 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

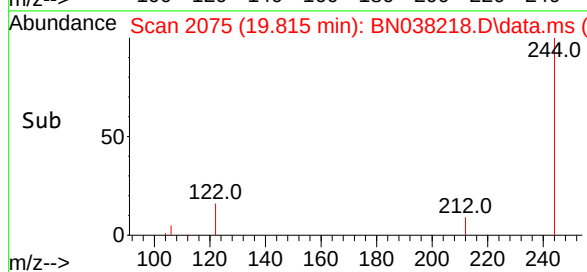
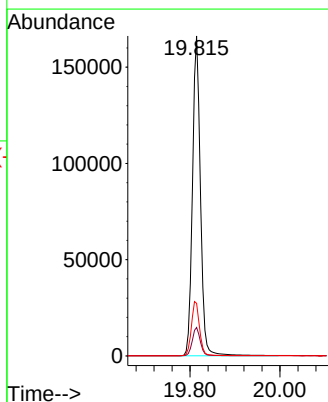
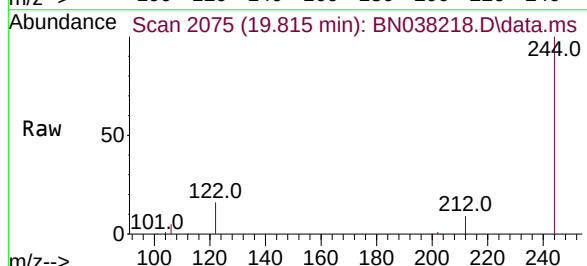
Tgt Ion:244 Resp: 204734

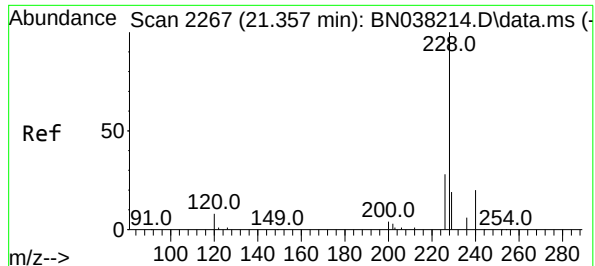
Ion	Ratio	Lower	Upper

244	100		

212	8.9	7.7	11.5

122	16.5	13.6	20.4





#32

Benzo(a)anthracene

Concen: 5.200 ng

RT: 21.348 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

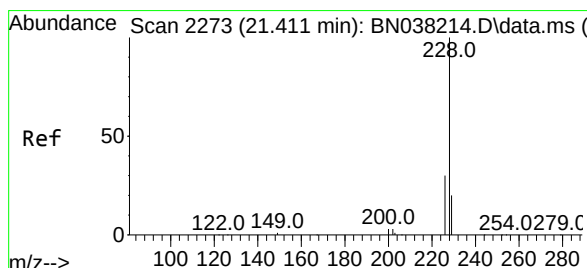
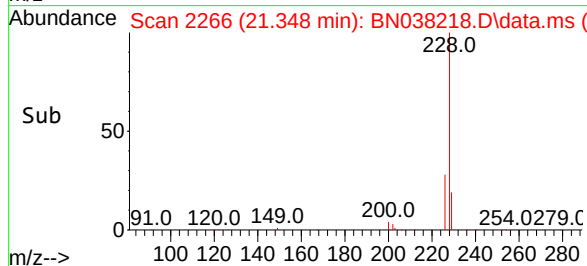
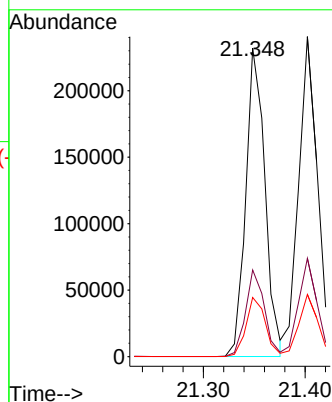
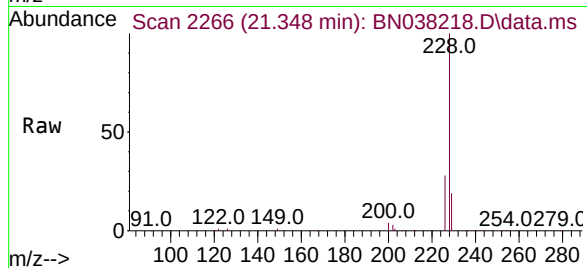
Tgt Ion:228 Resp: 303930

Ion Ratio Lower Upper

228 100

226 28.1 22.6 33.8

229 19.2 15.8 23.8



#33

Chrysene

Concen: 4.672 ng

RT: 21.402 min Scan# 2272

Delta R.T. -0.009 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

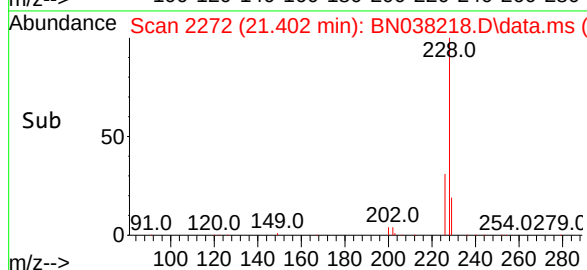
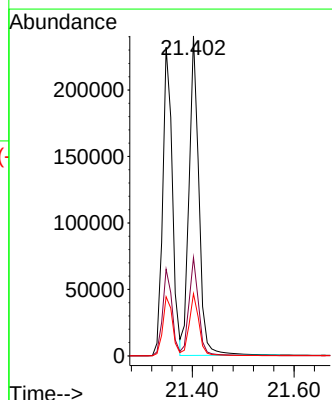
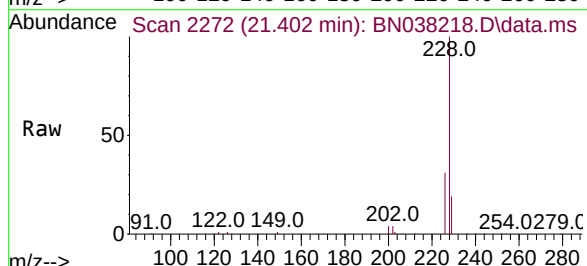
Tgt Ion:228 Resp: 322253

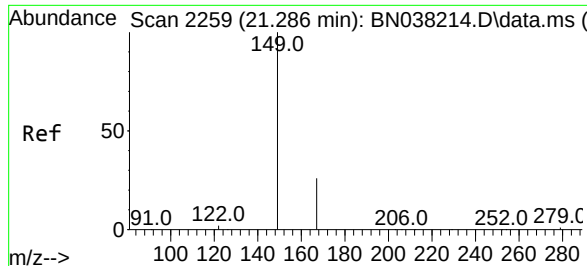
Ion Ratio Lower Upper

228 100

226 30.7 23.8 35.8

229 19.4 16.1 24.1

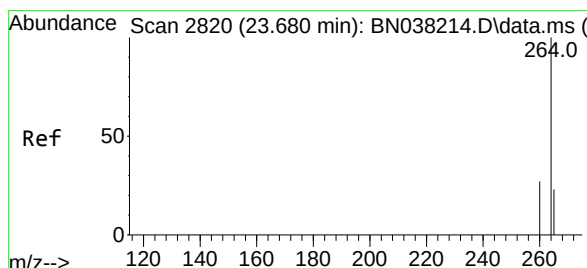
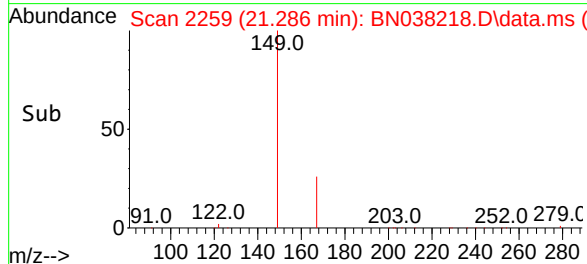
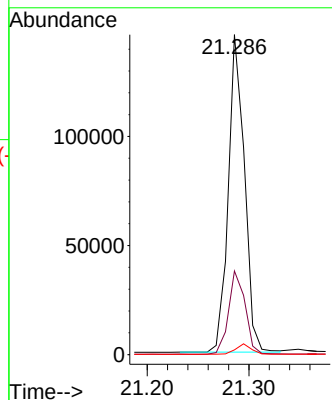
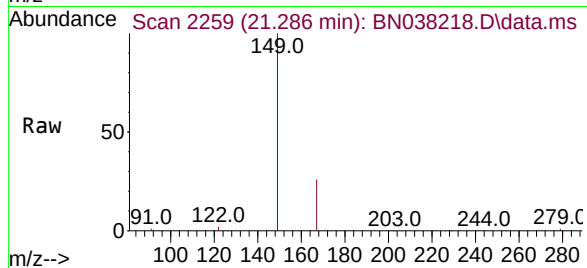




#34
Bis(2-ethylhexyl)phthalate
Concen: 5.026 ng
RT: 21.286 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

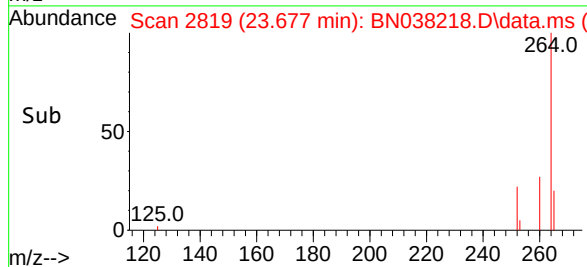
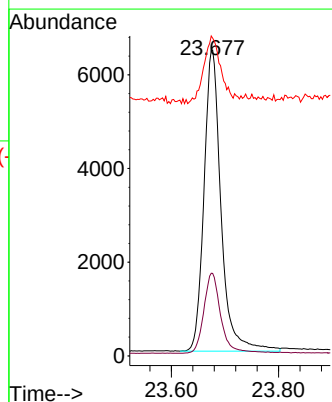
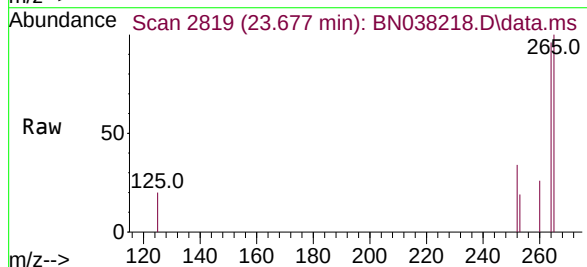
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

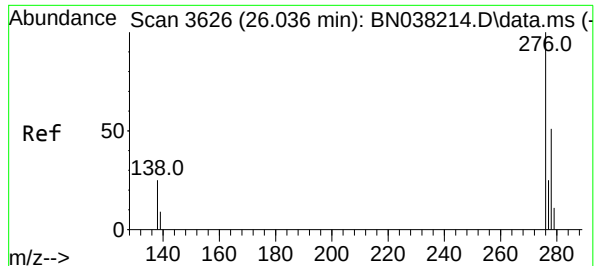
Tgt Ion:149 Resp: 160858
Ion Ratio Lower Upper
149 100
167 27.0 20.7 31.1
279 3.2 2.5 3.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 2819
Delta R.T. -0.003 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:264 Resp: 14227
Ion Ratio Lower Upper
264 100
260 27.0 21.7 32.5
265 103.9 98.0 147.0





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.295 ng

RT: 26.022 min Scan# 3626

Delta R.T. -0.015 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

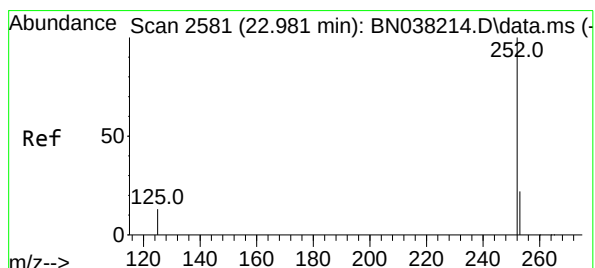
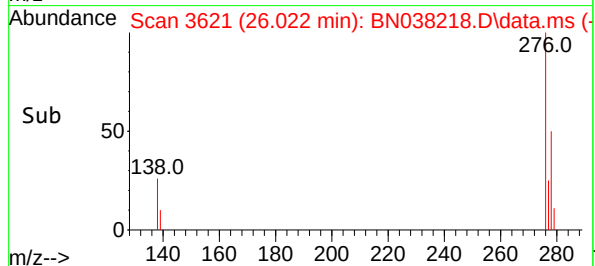
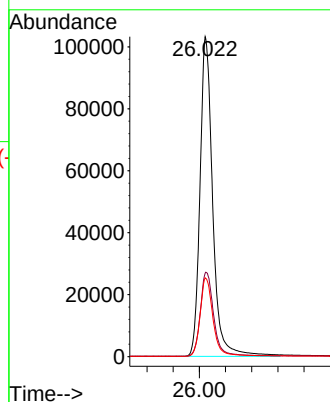
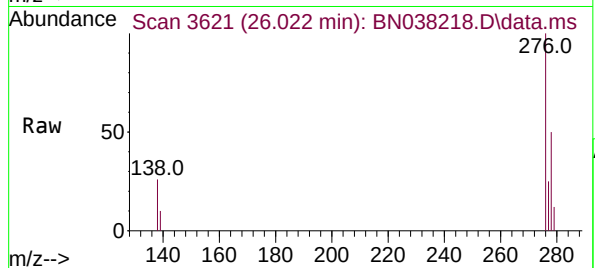
Tgt Ion:276 Resp: 348640

Ion Ratio Lower Upper

276 100

138 27.4 21.4 32.2

277 24.9 19.1 28.7



#37

Benzo(b)fluoranthene

Concen: 5.145 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

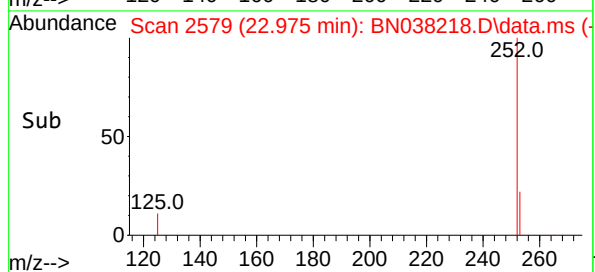
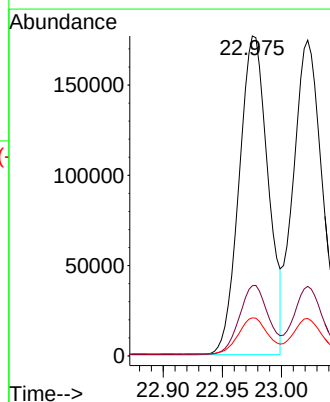
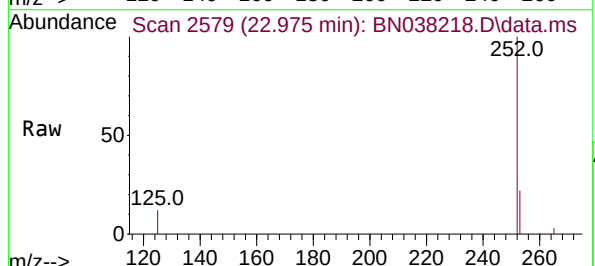
Tgt Ion:252 Resp: 300462

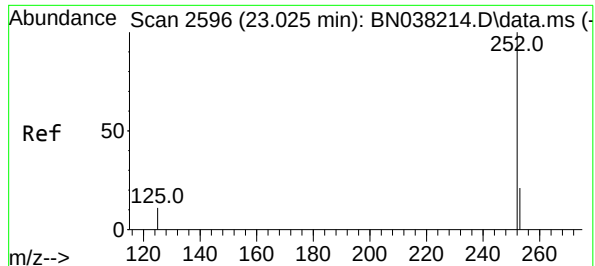
Ion Ratio Lower Upper

252 100

253 21.9 22.2 33.4#

125 11.9 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 5.104 ng

RT: 23.022 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

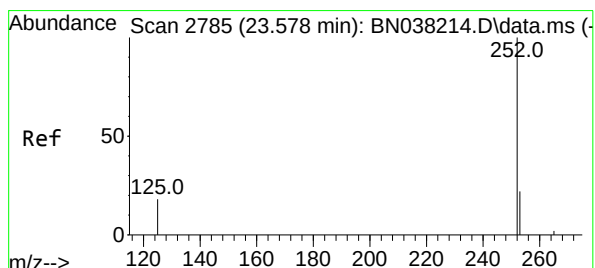
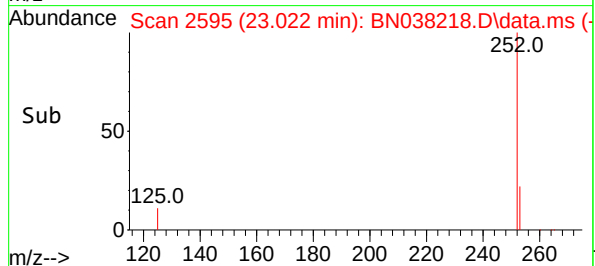
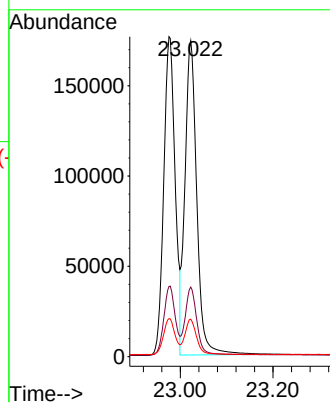
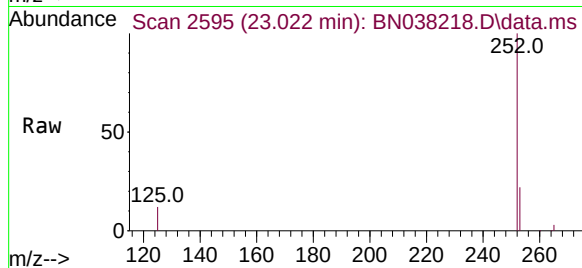
Tgt Ion:252 Resp: 309850

Ion Ratio Lower Upper

252 100

253 22.0 22.4 33.6#

125 11.8 17.5 26.3#



#39

Benzo(a)pyrene

Concen: 5.149 ng

RT: 23.575 min Scan# 2784

Delta R.T. -0.003 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

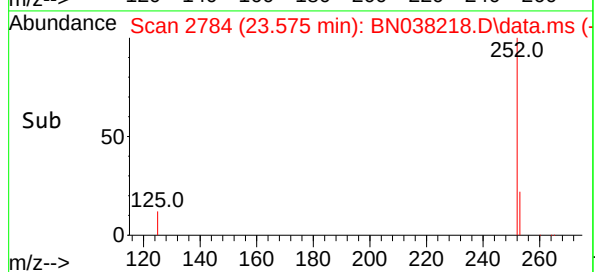
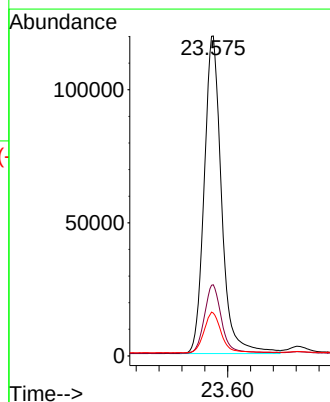
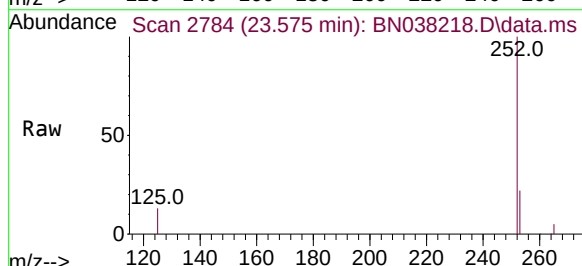
Tgt Ion:252 Resp: 252042

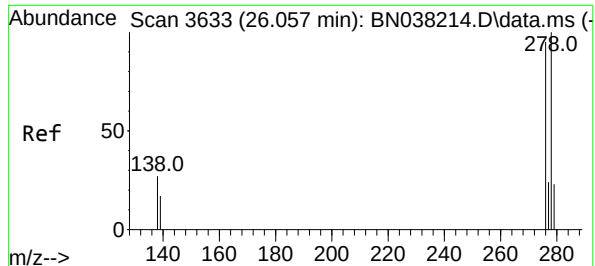
Ion Ratio Lower Upper

252 100

253 22.2 25.3 37.9#

125 13.4 25.2 37.8#





#40

Dibenzo(a,h)anthracene

Concen: 5.462 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

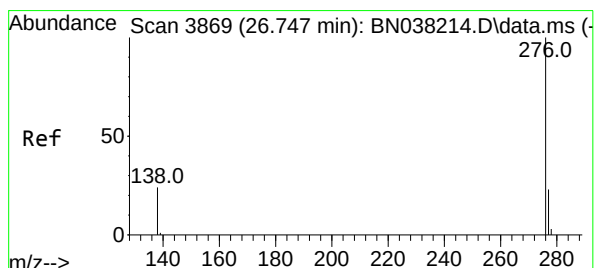
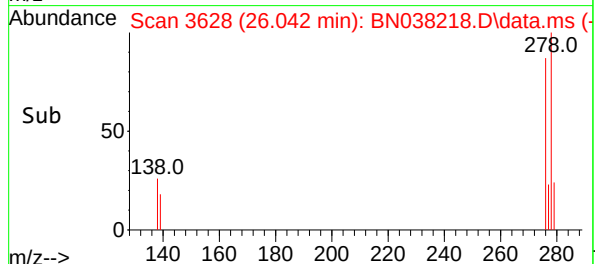
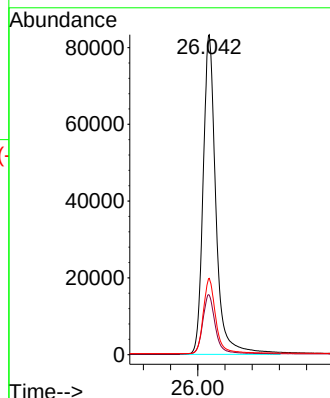
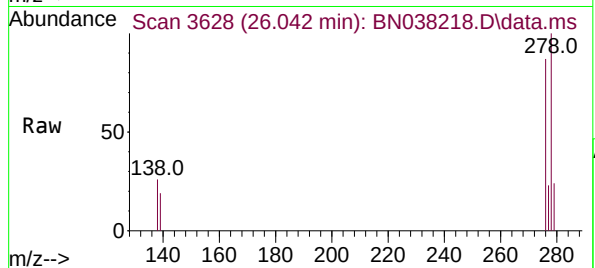
Tgt Ion:278 Resp: 272232

Ion Ratio Lower Upper

278 100

139 18.6 17.6 26.4

279 23.8 24.2 36.4#



#41

Benzo(g,h,i)perylene

Concen: 5.013 ng

RT: 26.741 min Scan# 3867

Delta R.T. -0.006 min

Lab File: BN038218.D

Acq: 27 Nov 2025 00:13

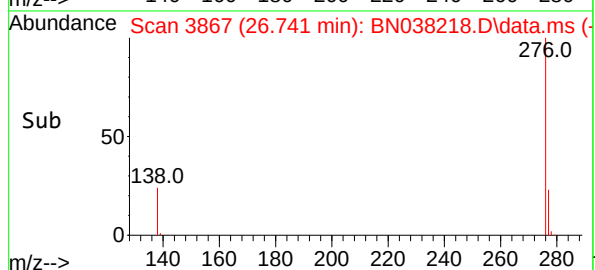
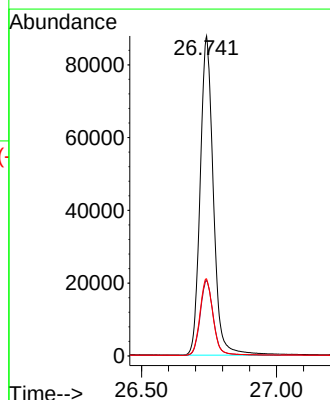
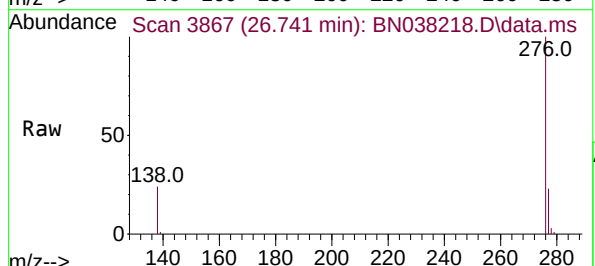
Tgt Ion:276 Resp: 296912

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.2

138 24.1 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038219.D
 Acq On : 27 Nov 2025 00:49
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112725

Quant Time: Nov 28 20:56:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

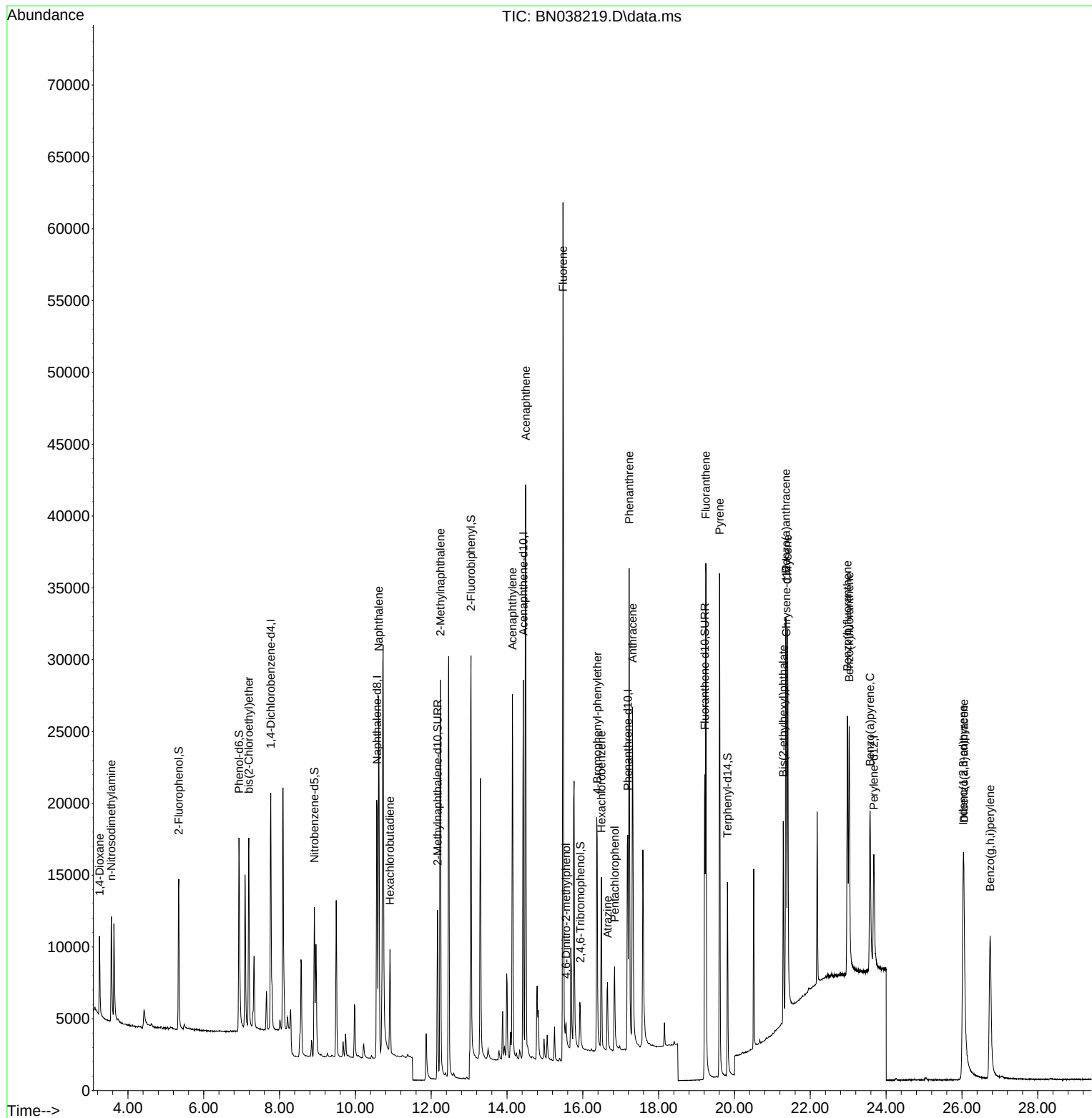
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8286	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	26445	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	15555	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	26160	0.400	ng	0.00
29) Chrysene-d12	21.366	240	14480	0.400	ng	0.00
35) Perylene-d12	23.677	264	13201	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	9400	0.485	ng	0.00
5) Phenol-d6	6.930	99	12758	0.527	ng	0.00
8) Nitrobenzene-d5	8.918	82	8931	0.422	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	17680	0.471	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	2465	0.504	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	27860	0.464	ng	0.00
27) Fluoranthene-d10	19.215	212	25558	0.450	ng	0.00
31) Terphenyl-d14	19.815	244	16070	0.481	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	3822	0.438	ng	98
3) n-Nitrosodimethylamine	3.557	42	4687	0.435	ng	# 99
6) bis(2-Chloroethyl)ether	7.190	93	11078	0.478	ng	98
9) Naphthalene	10.616	128	33280	0.453	ng	100
10) Hexachlorobutadiene	10.915	225	5553	0.445	ng	# 97
12) 2-Methylnaphthalene	12.243	142	22580	0.467	ng	100
16) Acenaphthylene	14.142	152	30627	0.440	ng	99
17) Acenaphthene	14.494	154	22117	0.456	ng	99
18) Fluorene	15.478	166	29030	0.463	ng	100
20) 4,6-Dinitro-2-methylph...	15.560	198	1331	0.648	ng	# 31
21) 4-Bromophenyl-phenylether	16.379	248	8311	0.459	ng	96
22) Hexachlorobenzene	16.491	284	10112	0.454	ng	99
23) Atrazine	16.652	200	4807	0.415	ng	98
24) Pentachlorophenol	16.838	266	3722	0.609	ng	98
25) Phenanthrene	17.223	178	37032	0.451	ng	100
26) Anthracene	17.310	178	31322	0.447	ng	99
28) Fluoranthene	19.243	202	35631	0.450	ng	99
30) Pyrene	19.610	202	34919	0.483	ng	99
32) Benzo(a)anthracene	21.357	228	22927	0.468	ng	99
33) Chrysene	21.402	228	26769	0.463	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	12409	0.462	ng	99
36) Indeno(1,2,3-cd)pyrene	26.031	276	28585	0.468	ng	99
37) Benzo(b)fluoranthene	22.978	252	24504	0.452	ng	96
38) Benzo(k)fluoranthene	23.025	252	26724	0.474	ng	96
39) Benzo(a)pyrene	23.578	252	20972	0.462	ng	95
40) Dibenzo(a,h)anthracene	26.051	278	21955	0.475	ng	96
41) Benzo(g,h,i)perylene	26.744	276	25311	0.461	ng	99

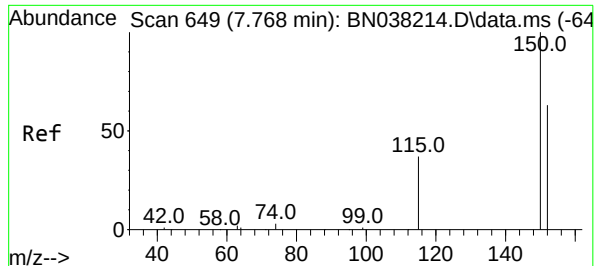
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038219.D
Acq On : 27 Nov 2025 00:49
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Quant Time: Nov 28 20:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

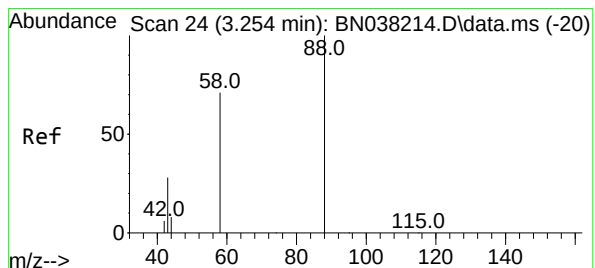
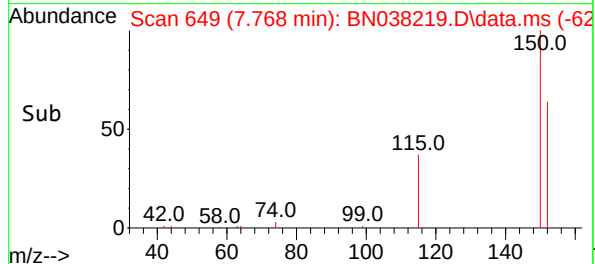
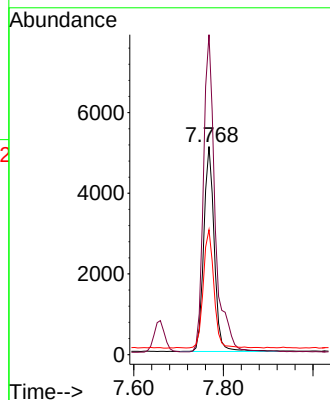
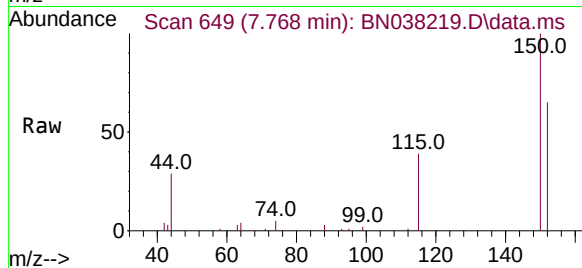




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

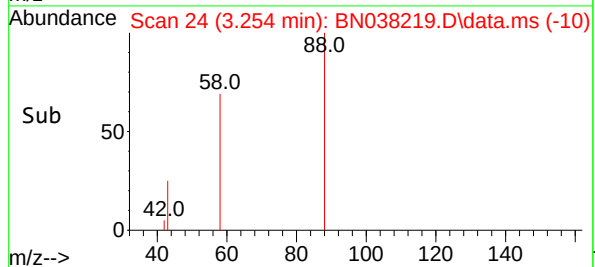
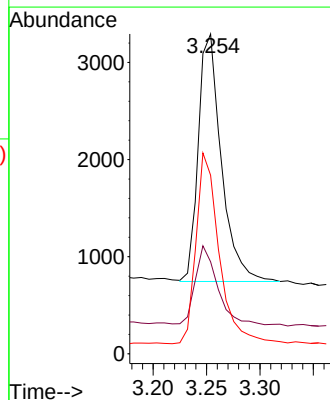
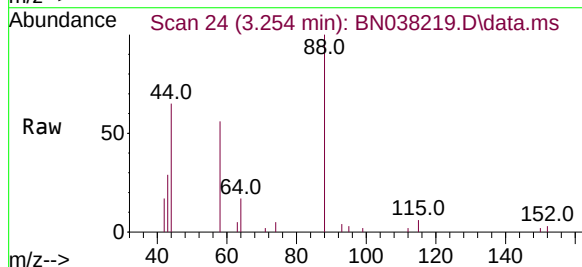
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

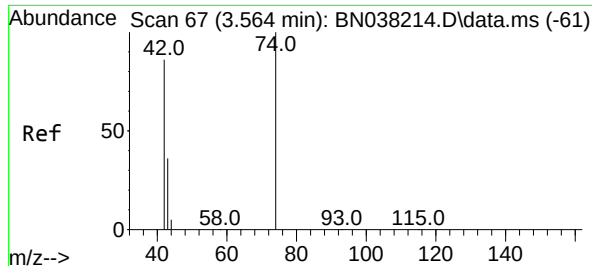
Tgt Ion:152 Resp: 8286
Ion Ratio Lower Upper
152 100
150 153.8 125.3 187.9
115 60.0 49.0 73.4



#2
1,4-Dioxane
Concen: 0.438 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion: 88 Resp: 3822
Ion Ratio Lower Upper
88 100
43 32.8 24.8 37.2
58 77.4 61.1 91.7

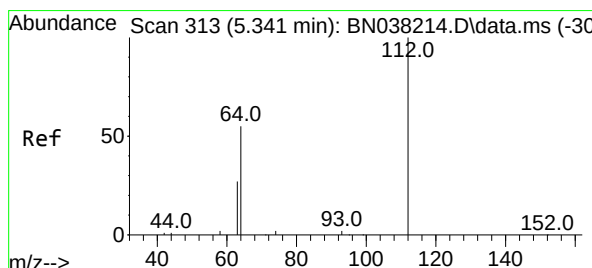
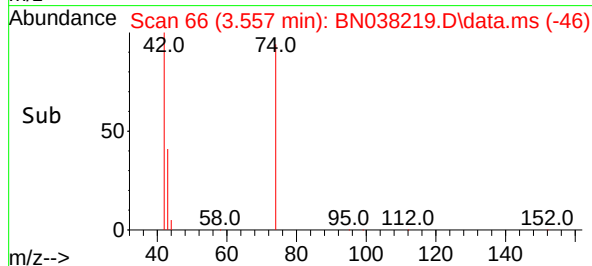
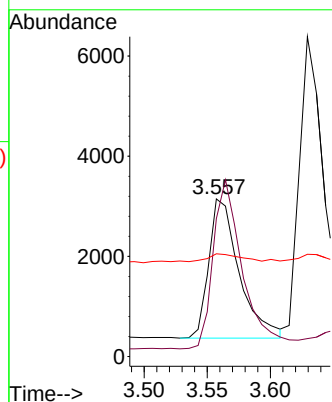
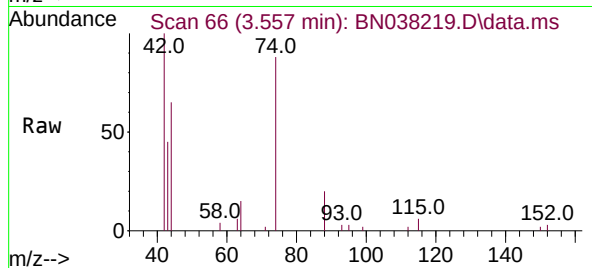




#3
 n-Nitrosodimethylamine
 Concen: 0.435 ng
 RT: 3.557 min Scan# 60
 Delta R.T. -0.007 min
 Lab File: BN038219.D
 Acq: 27 Nov 2025 00:49

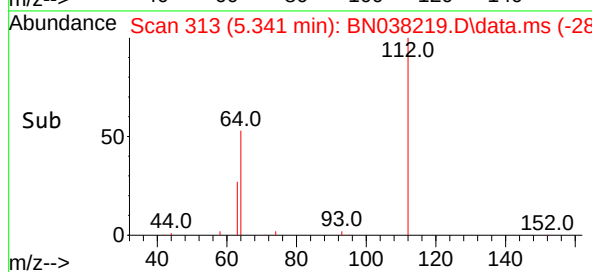
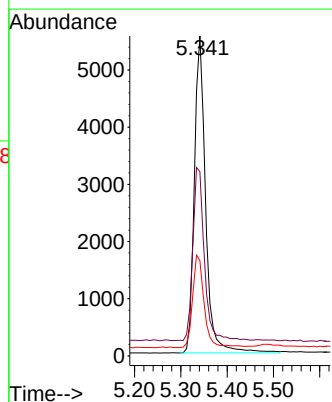
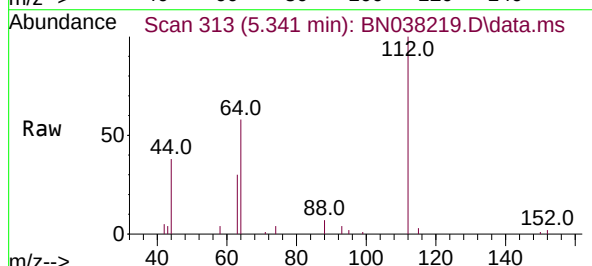
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112725

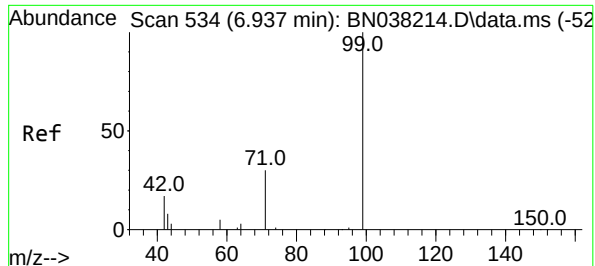
Tgt Ion: 42 Resp: 4687
 Ion Ratio Lower Upper
 42 100
 74 119.2 96.2 144.2
 44 7.0 8.0 12.0#



#4
 2-Fluorophenol
 Concen: 0.485 ng
 RT: 5.341 min Scan# 313
 Delta R.T. 0.000 min
 Lab File: BN038219.D
 Acq: 27 Nov 2025 00:49

Tgt Ion: 112 Resp: 9400
 Ion Ratio Lower Upper
 112 100
 64 55.6 45.0 67.4
 63 30.1 23.2 34.8

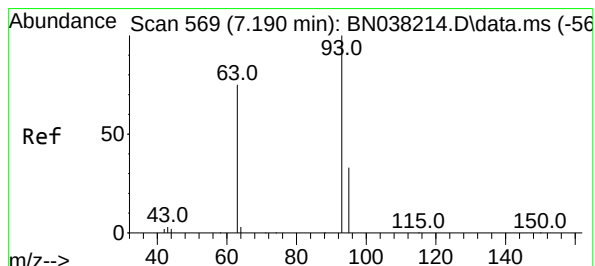
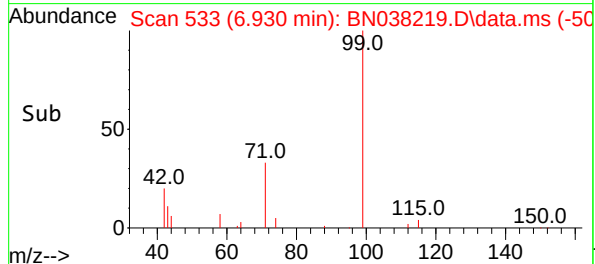
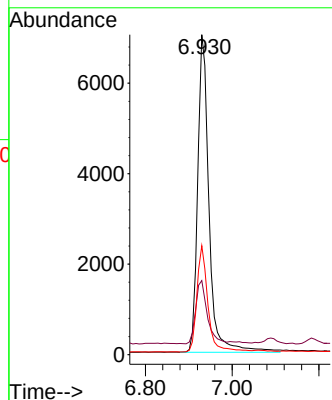
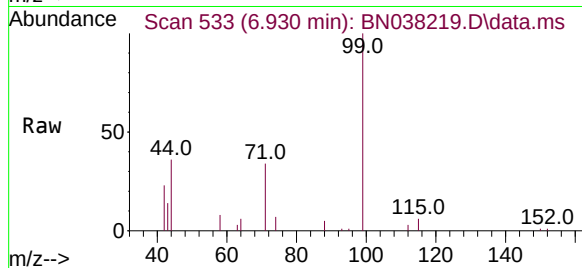




#5
Phenol-d6
Concen: 0.527 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

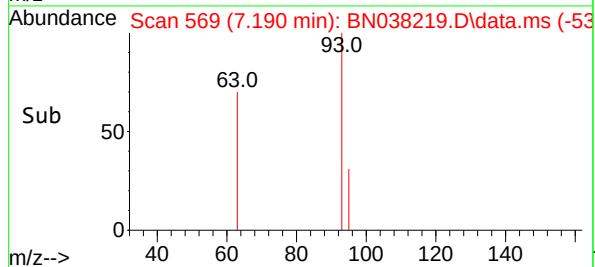
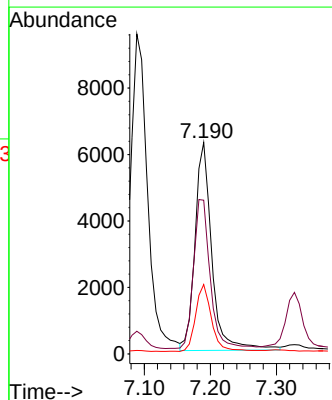
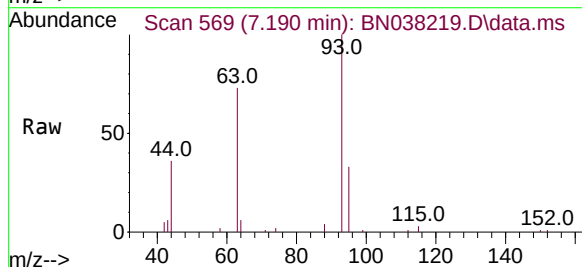
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

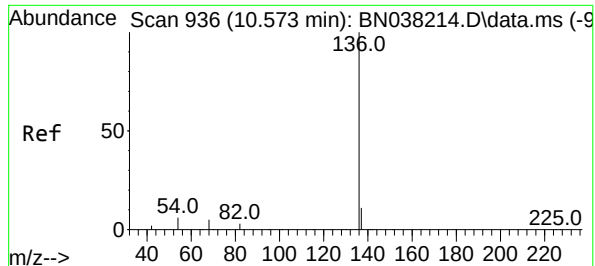
Tgt Ion: 99 Resp: 12758
Ion Ratio Lower Upper
99 100
42 20.3 17.0 25.6
71 32.7 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.478 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion: 93 Resp: 11078
Ion Ratio Lower Upper
93 100
63 70.6 58.1 87.1
95 30.5 25.1 37.7

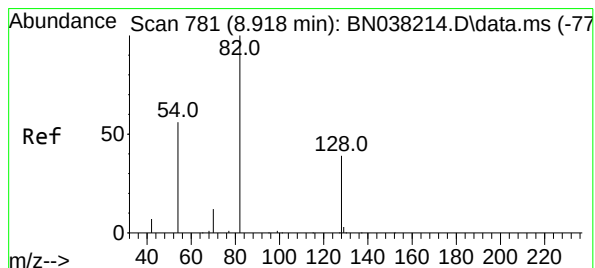
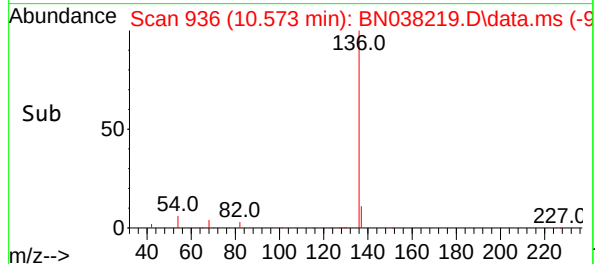
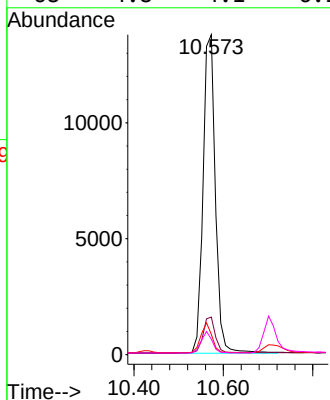
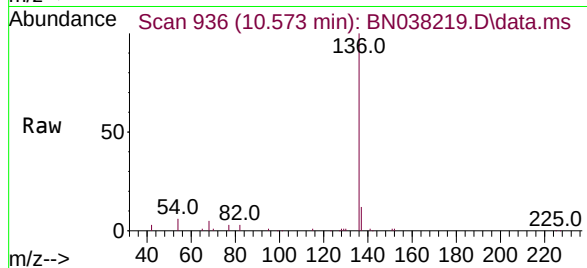




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

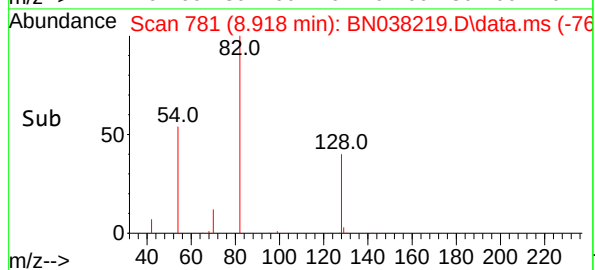
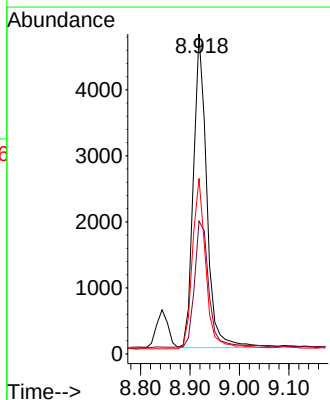
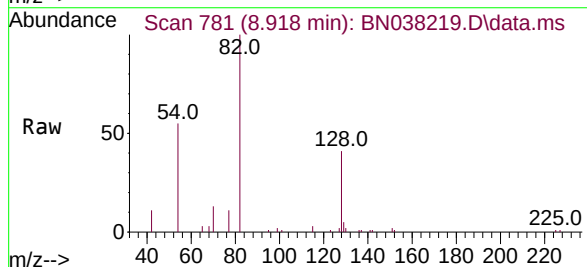
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

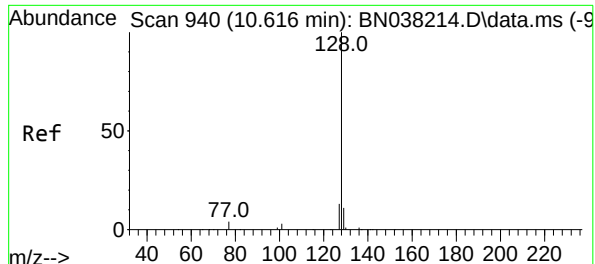
Tgt Ion:	136	Resp:	26445
Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.9	13.3
54	6.3	5.4	8.0
68	4.8	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.422 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:	82	Resp:	8931
Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.6	48.8
54	54.8	45.4	68.0

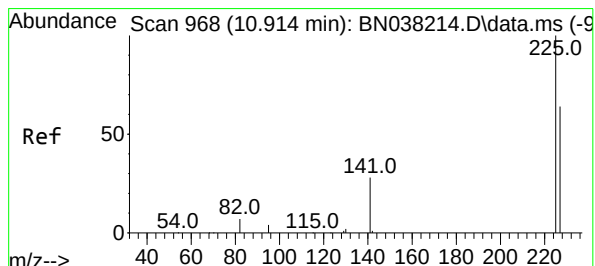
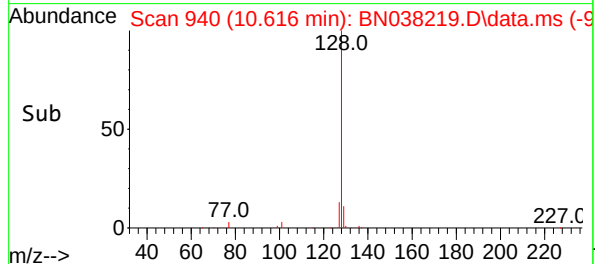
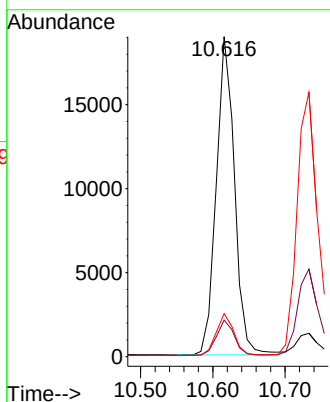
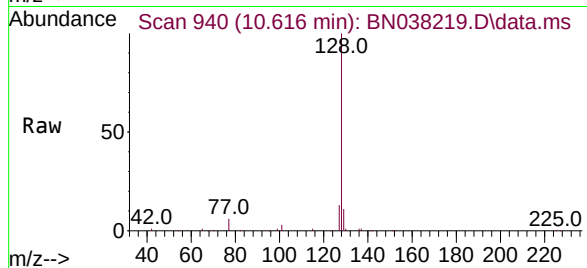




#9
Naphthalene
Concen: 0.453 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

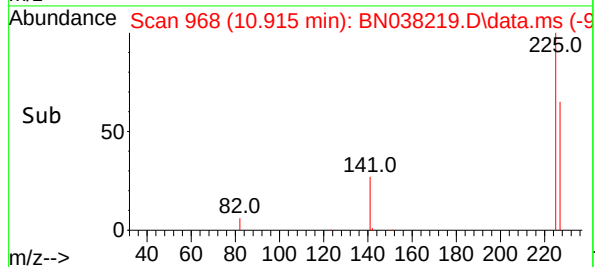
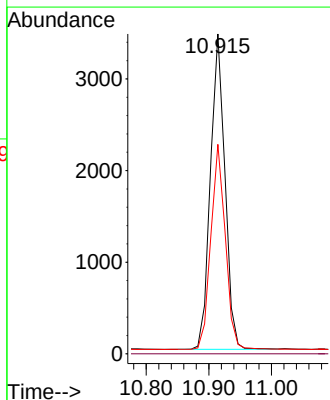
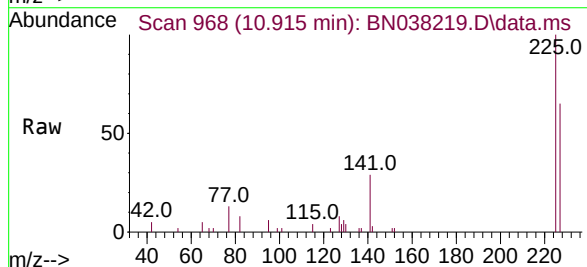
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

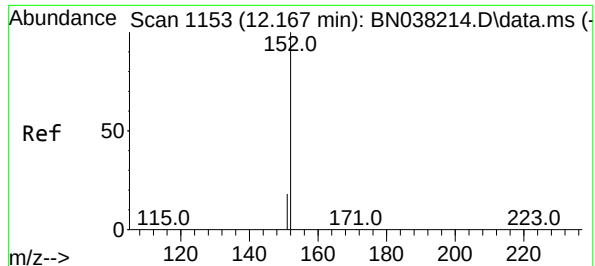
Tgt Ion:128 Resp: 33280
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.4 10.6 16.0



#10
Hexachlorobutadiene
Concen: 0.445 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:225 Resp: 5553
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.2 50.5 75.7

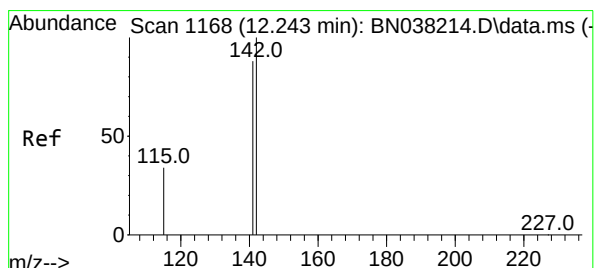
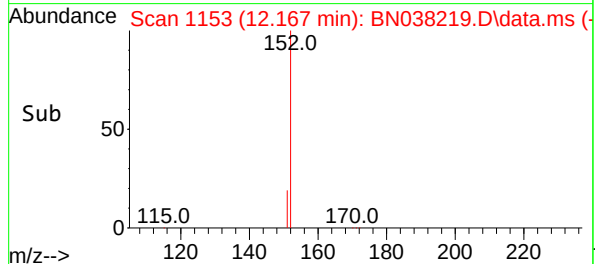
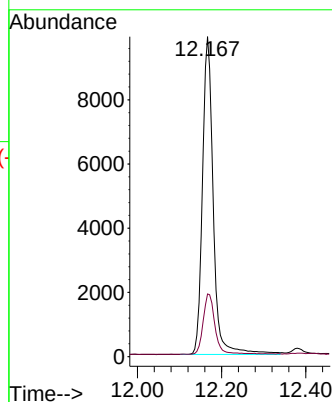
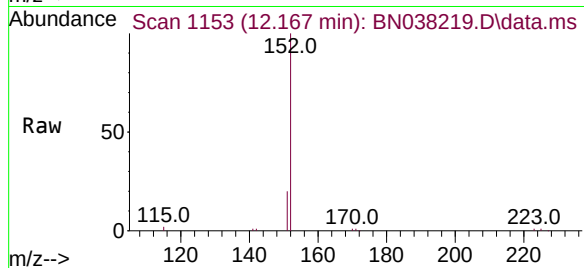




#11
2-Methylnaphthalene-d10
Concen: 0.471 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

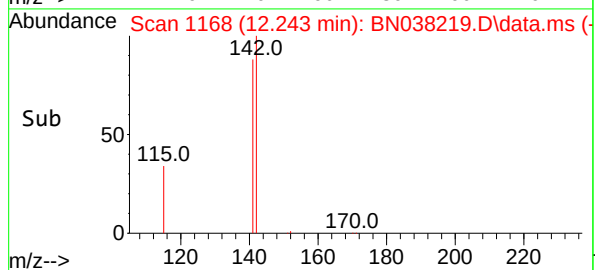
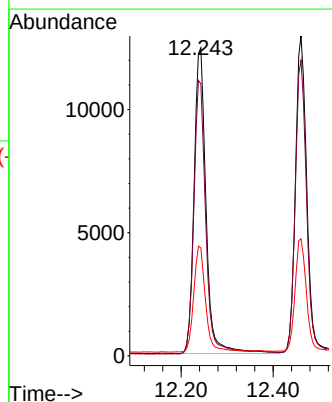
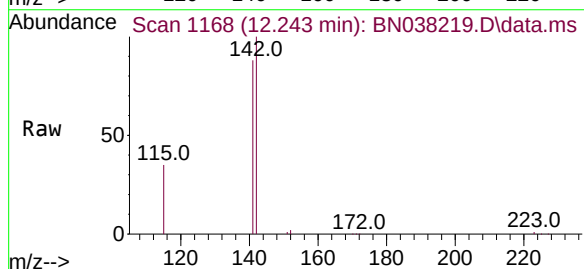
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

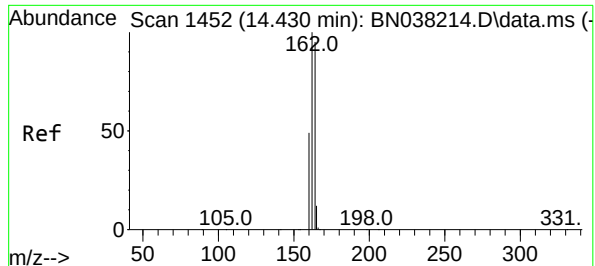
Tgt Ion:152 Resp: 17680
Ion Ratio Lower Upper
152 100
151 20.6 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.467 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:142 Resp: 22580
Ion Ratio Lower Upper
142 100
141 88.3 70.9 106.3
115 35.0 27.7 41.5

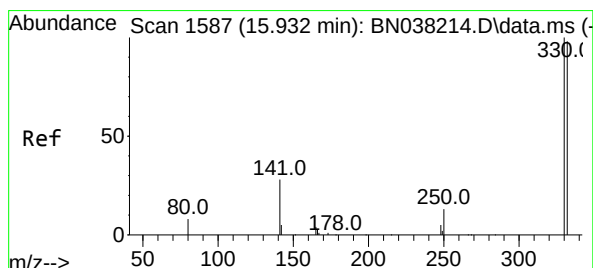
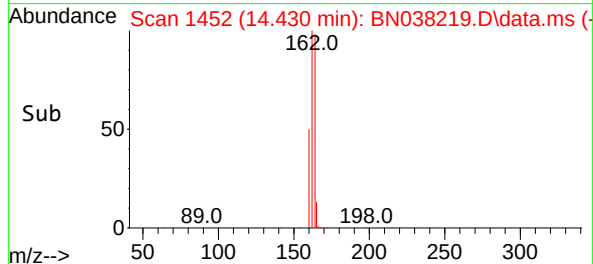
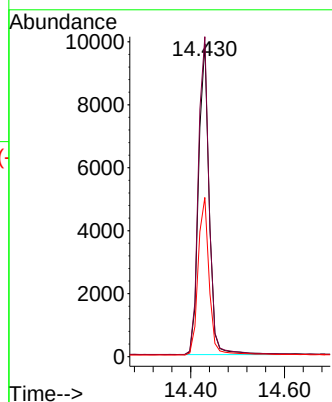
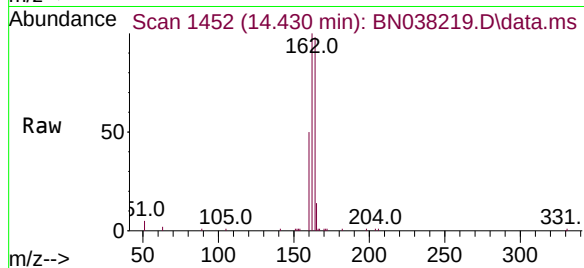




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

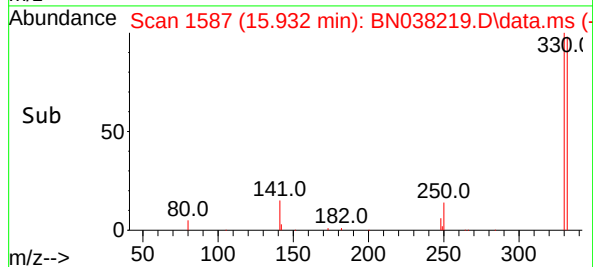
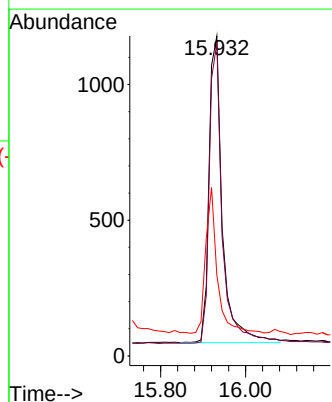
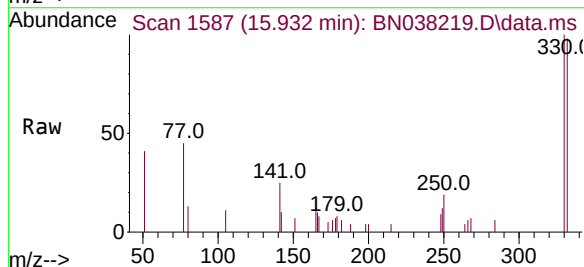
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

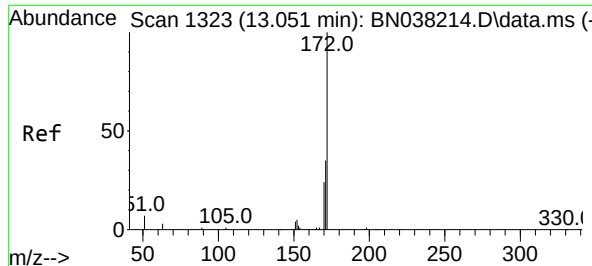
Tgt Ion	164	162	160
Resp:	15555	102.3	50.9
Ion Ratio	100	102.3	50.9
Lower		83.8	41.6
Upper		125.8	62.4



#14
2,4,6-Tribromophenol
Concen: 0.504 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion	330	332	141
Resp:	2465	95.5	41.0
Ion Ratio	100	95.5	41.0
Lower		77.8	33.0
Upper		116.6	49.4





#15

2-Fluorobiphenyl

Concen: 0.464 ng

RT: 13.051 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

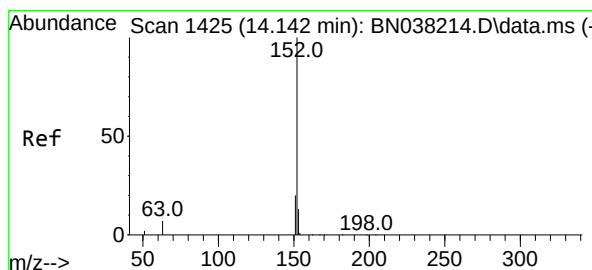
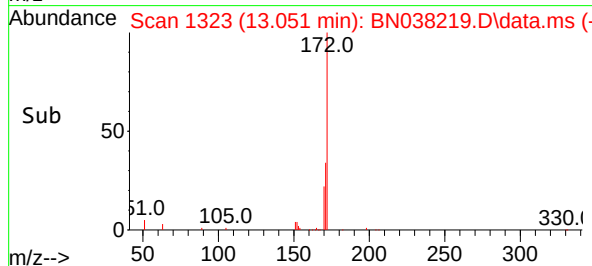
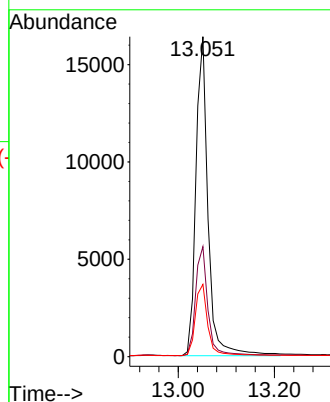
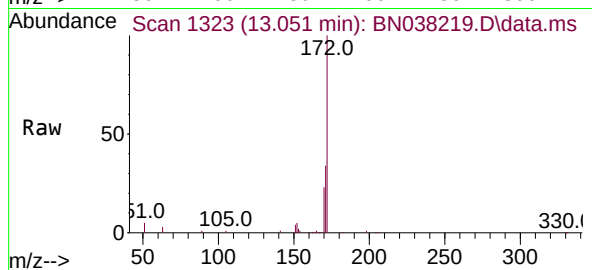
Tgt Ion:172 Resp: 27860

Ion Ratio Lower Upper

172 100

171 34.4 28.1 42.1

170 22.6 19.1 28.7



#16

Acenaphthylene

Concen: 0.440 ng

RT: 14.142 min Scan# 1425

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

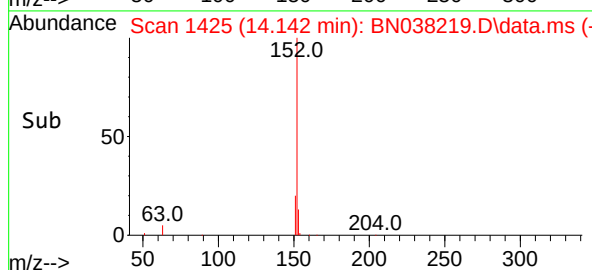
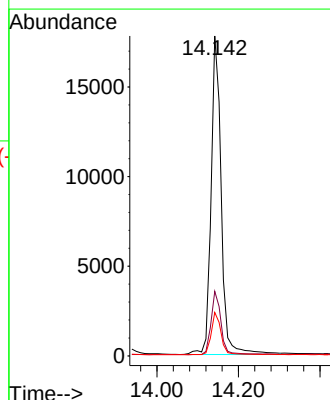
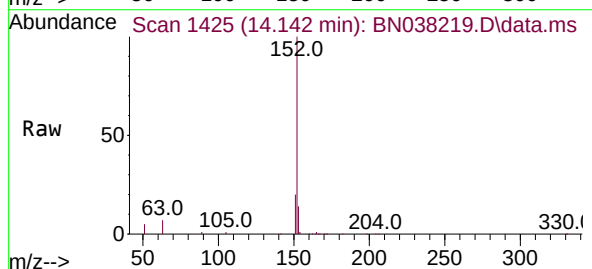
Tgt Ion:152 Resp: 30627

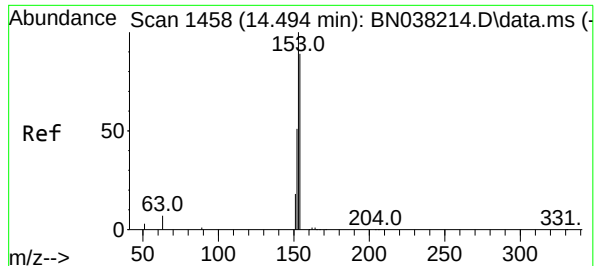
Ion Ratio Lower Upper

152 100

151 19.7 15.6 23.4

153 12.9 10.6 15.8

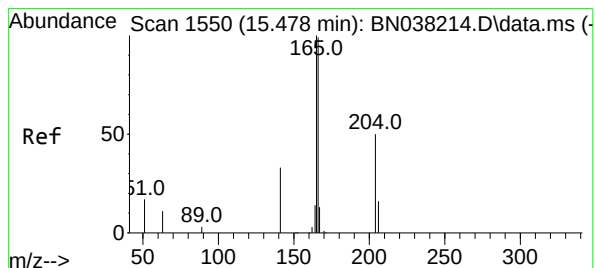
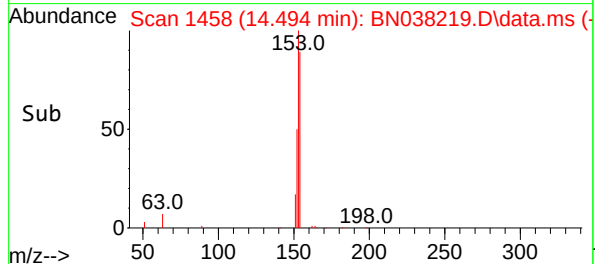
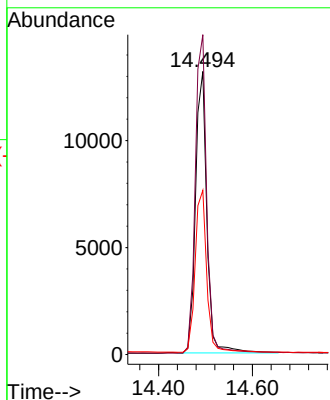
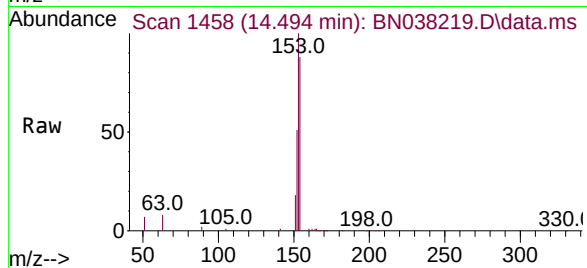




#17
Acenaphthene
Concen: 0.456 ng
RT: 14.494 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

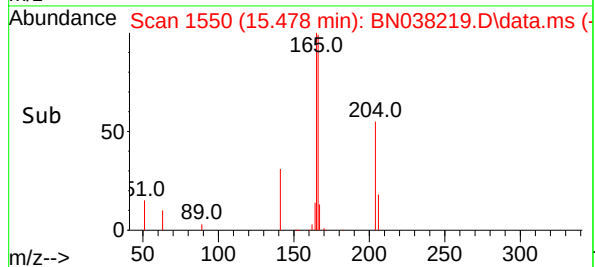
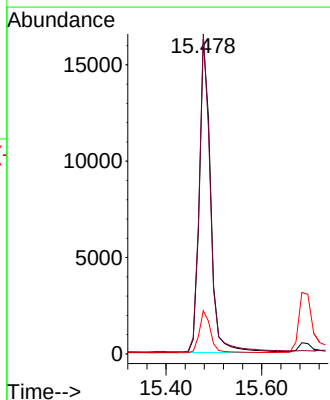
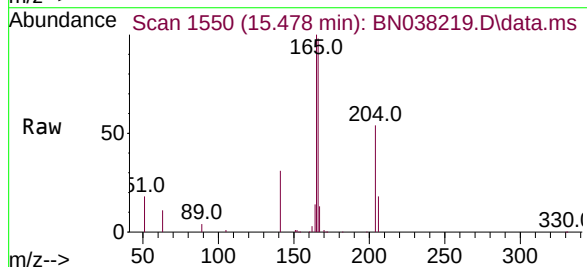
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

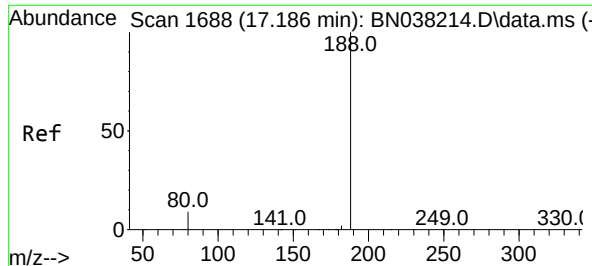
Tgt Ion:154 Resp: 22117
Ion Ratio Lower Upper
154 100
153 113.5 91.1 136.7
152 58.7 48.2 72.2



#18
Fluorene
Concen: 0.463 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:166 Resp: 29030
Ion Ratio Lower Upper
166 100
165 98.1 78.7 118.1
167 13.1 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

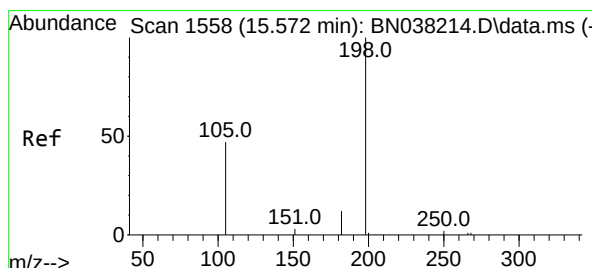
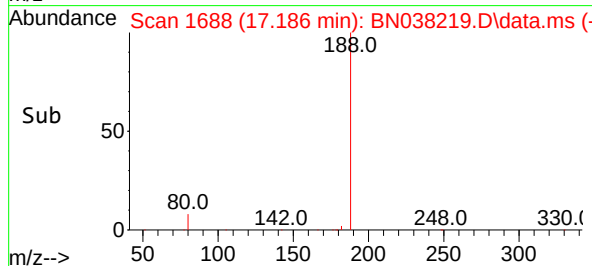
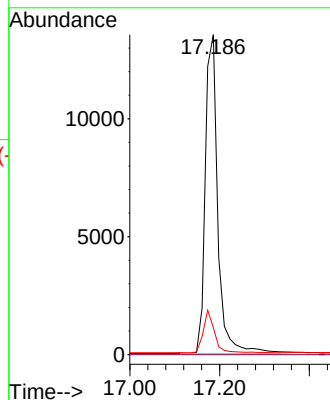
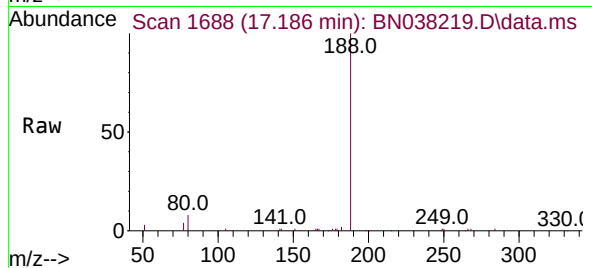
Tgt Ion:188 Resp: 26160

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.5 7.7 11.5



#20

4,6-Dinitro-2-methylphenol

Concen: 0.648 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

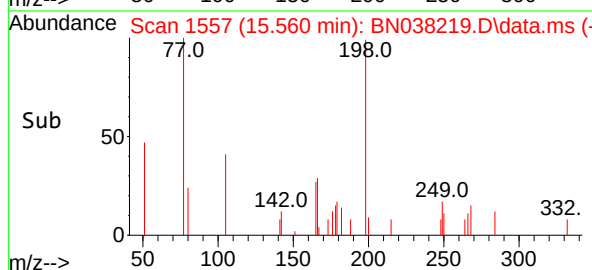
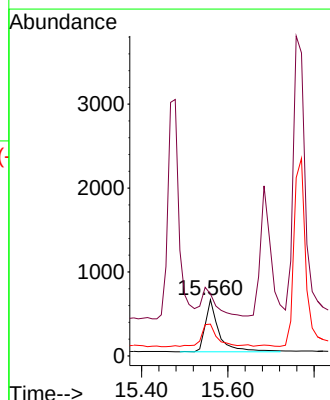
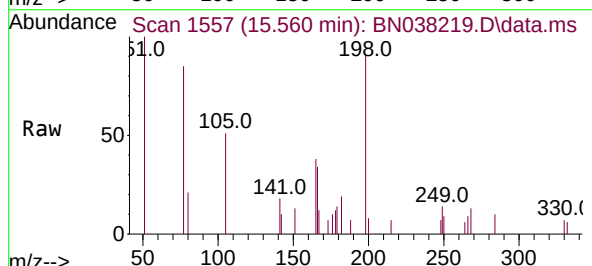
Tgt Ion:198 Resp: 1331

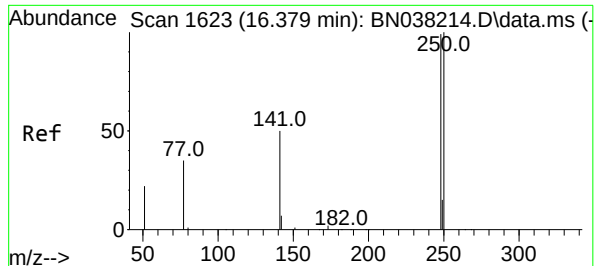
Ion Ratio Lower Upper

198 100

51 110.3 205.1 307.7#

105 56.5 61.6 92.4#

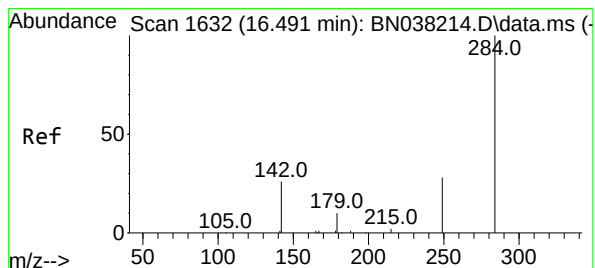
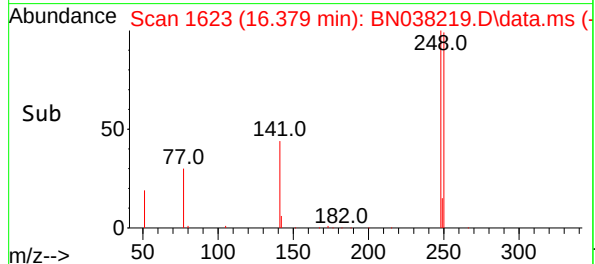
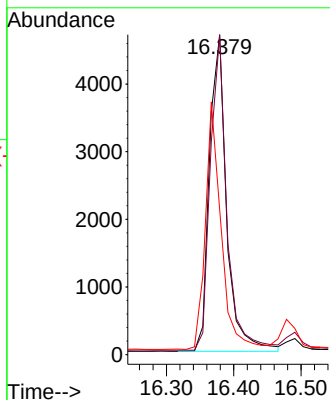
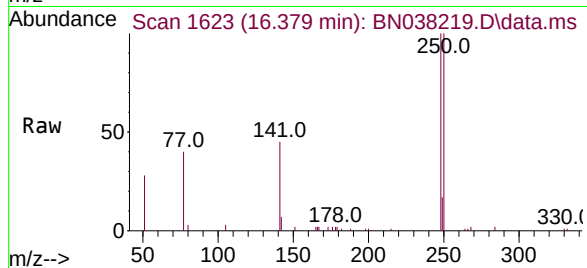




#21
4-Bromophenyl-phenylether
Concen: 0.459 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

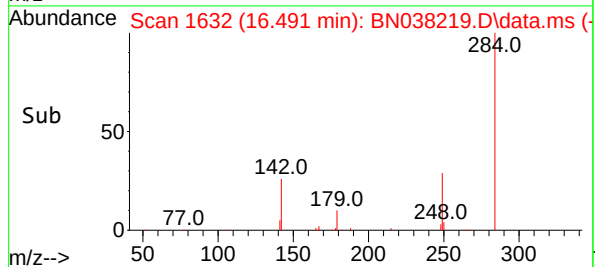
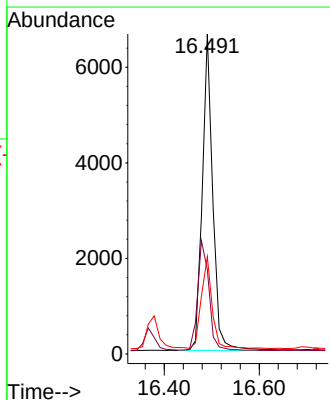
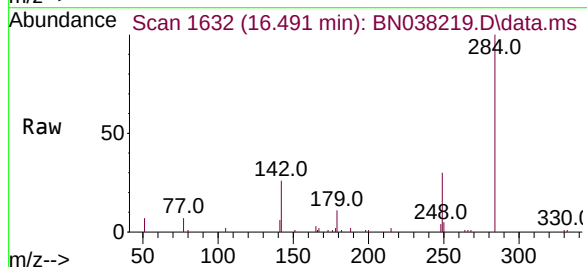
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

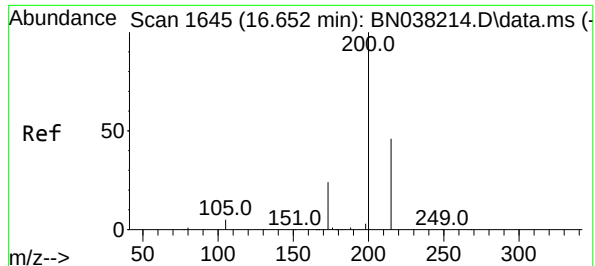
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.8	80.8	121.2
141	45.4	41.0	61.6



#22
Hexachlorobenzene
Concen: 0.454 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.5	45.7
249	29.9	23.8	35.8

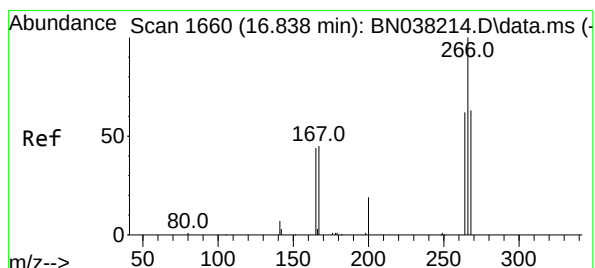
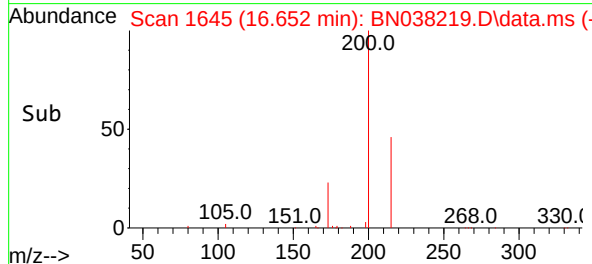
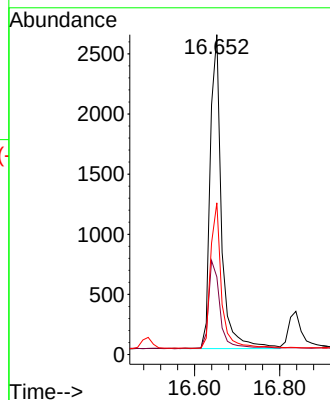
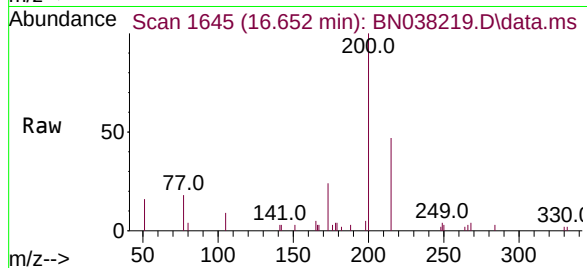




#23
Atrazine
Concen: 0.415 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

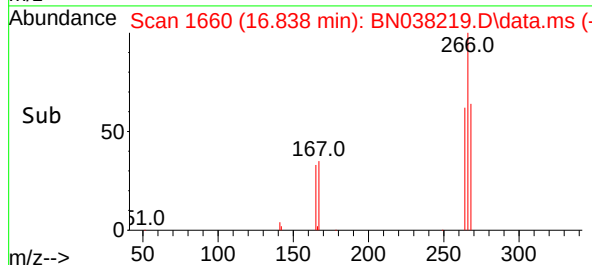
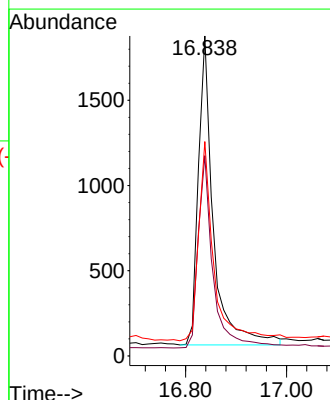
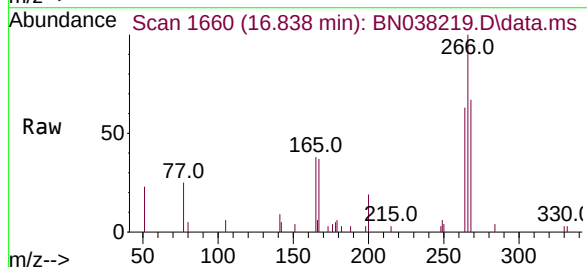
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BNA_N
ClientSampleId :
ICVBN112725

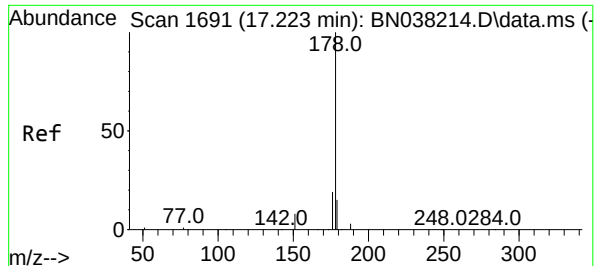
Tgt Ion	200	Resp:	4807
Ion Ratio	Lower	Upper	
200	100		
173	24.2	21.0	31.6
215	47.4	37.8	56.8



#24
Pentachlorophenol
Concen: 0.609 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion	266	Resp:	3722
Ion Ratio	Lower	Upper	
266	100		
264	62.0	48.9	73.3
268	64.9	50.2	75.2

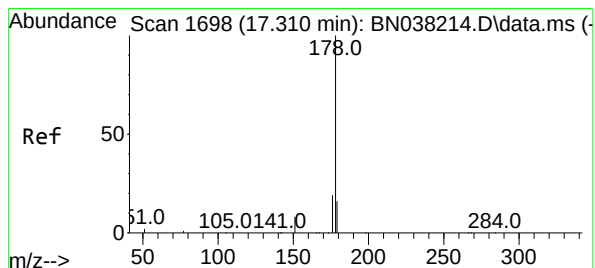
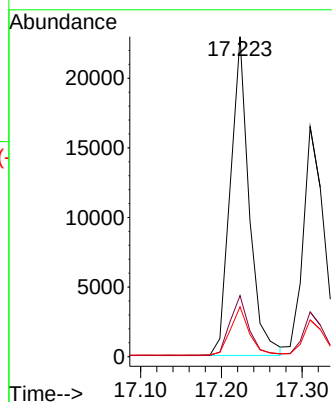
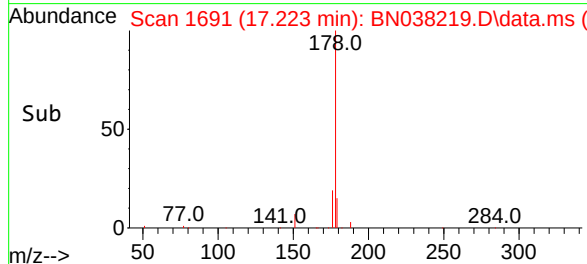
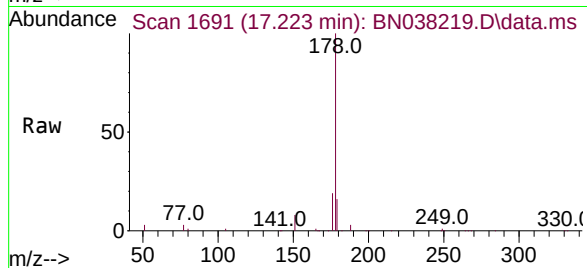




#25
Phenanthrene
Concen: 0.451 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

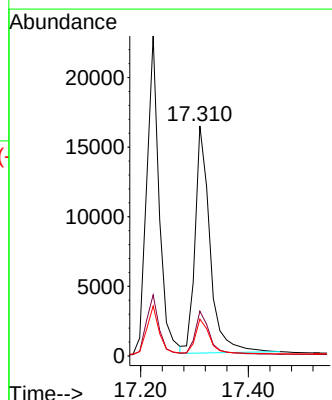
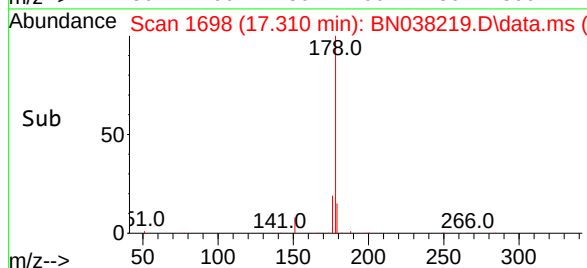
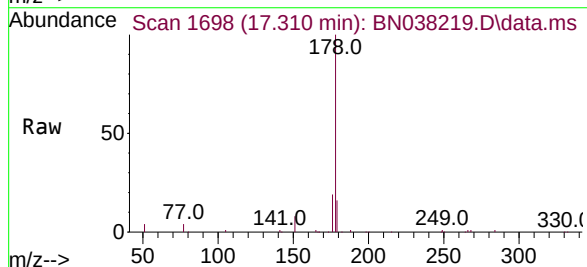
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

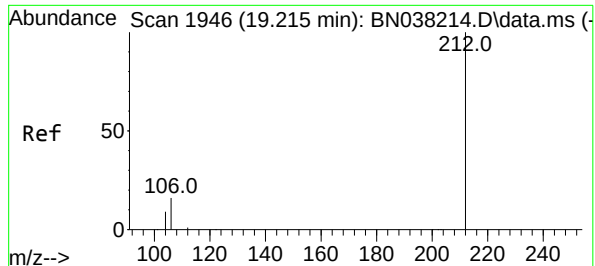
Tgt Ion	178	176	179
Resp:	37032		
Ion Ratio	100	19.1	15.3
Lower		15.3	12.0
Upper		22.9	18.0



#26
Anthracene
Concen: 0.447 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion	178	176	179
Resp:	31322		
Ion Ratio	100	19.0	15.1
Lower		14.7	12.3
Upper		22.1	18.5





#27

Fluoranthene-d10

Concen: 0.450 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

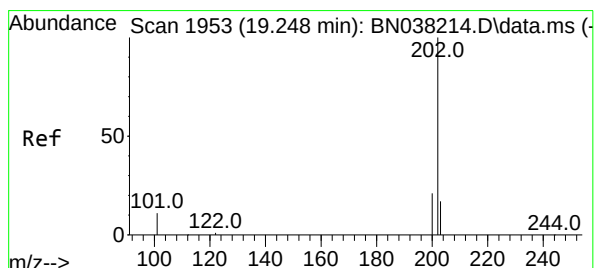
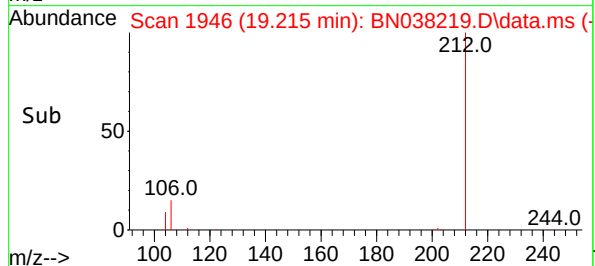
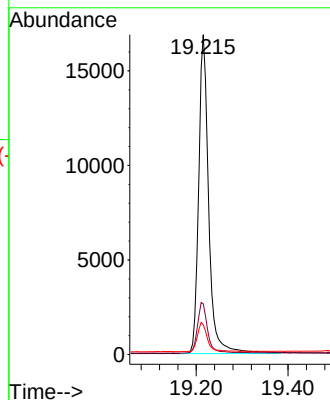
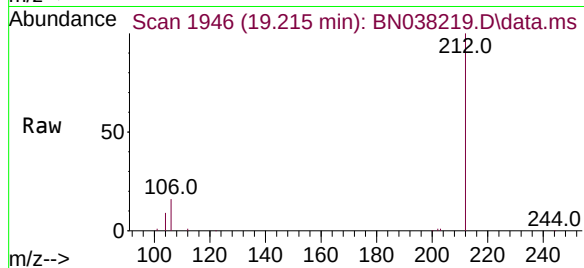
Tgt Ion:212 Resp: 25558

Ion Ratio Lower Upper

212 100

106 16.1 12.7 19.1

104 9.1 7.3 10.9



#28

Fluoranthene

Concen: 0.450 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

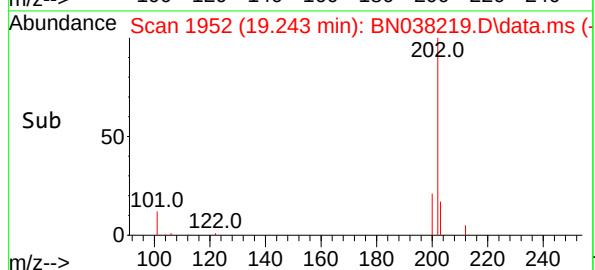
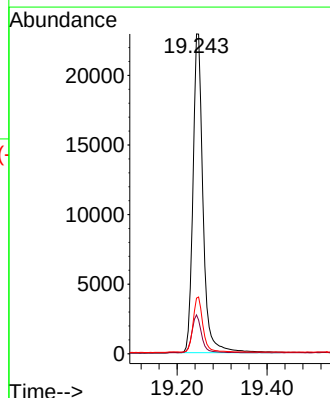
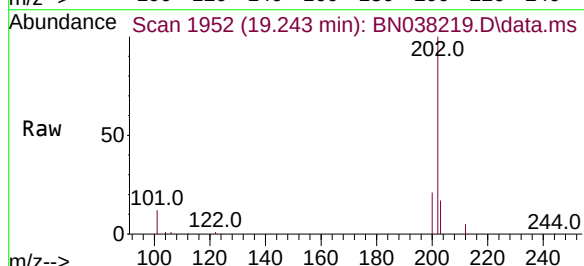
Tgt Ion:202 Resp: 35631

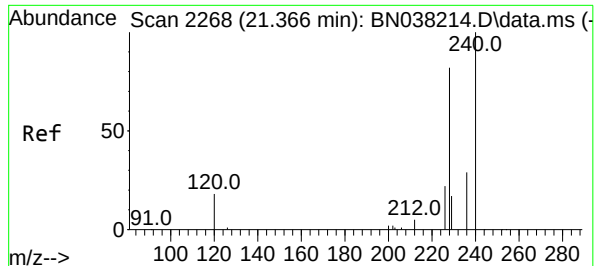
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

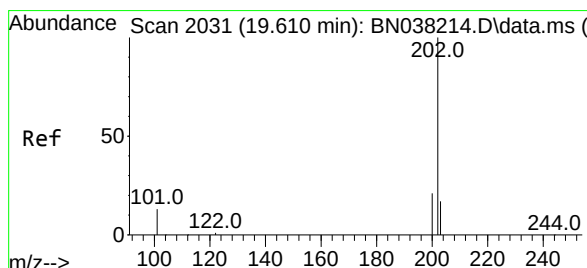
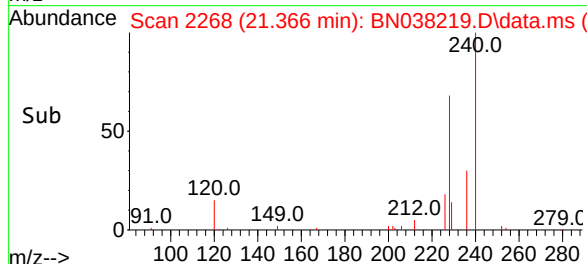
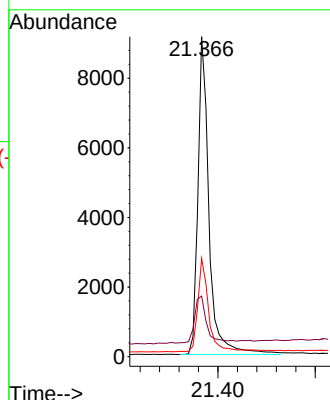
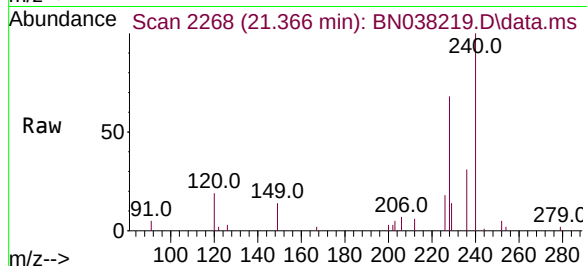
Tgt Ion:240 Resp: 14480

Ion Ratio Lower Upper

240 100

120 18.9 18.1 27.1

236 30.7 24.2 36.4



#30

Pyrene

Concen: 0.483 ng

RT: 19.610 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

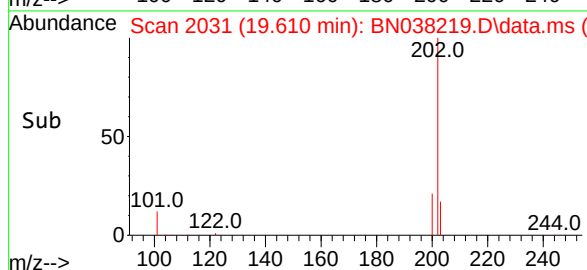
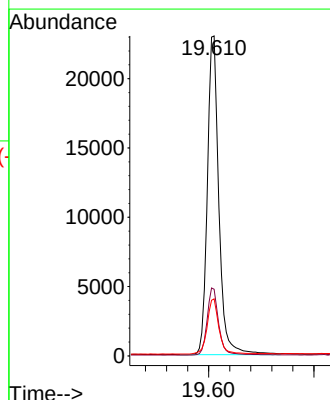
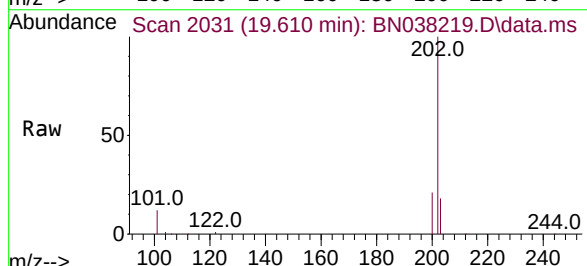
Tgt Ion:202 Resp: 34919

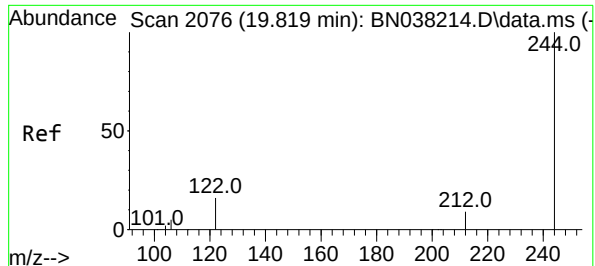
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.6 14.4 21.6

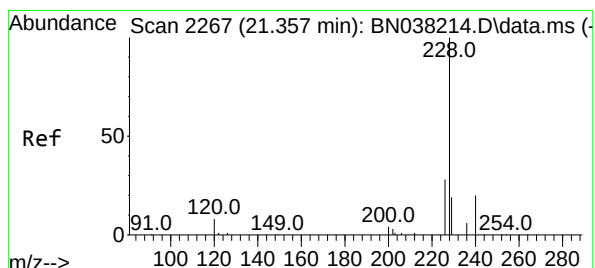
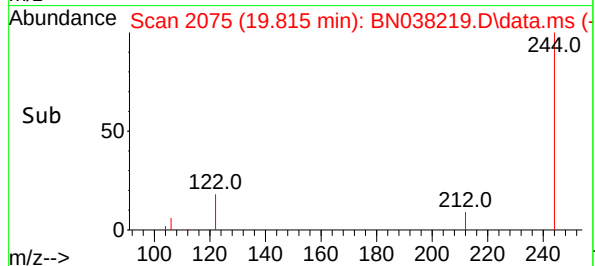
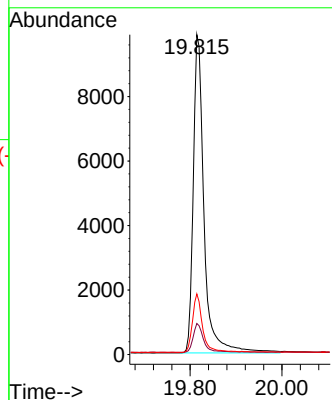
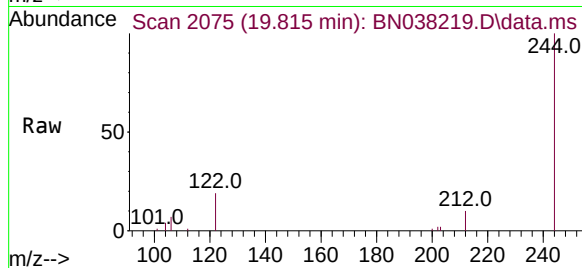




#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.815 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

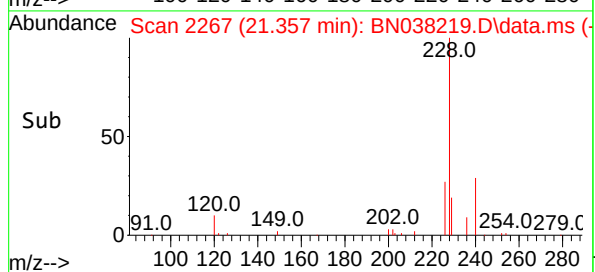
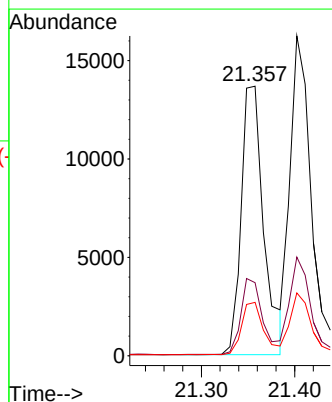
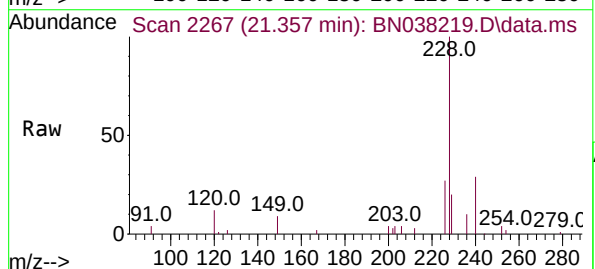
Instrument :
BNA_N
ClientSampleId :
ICVBN112725

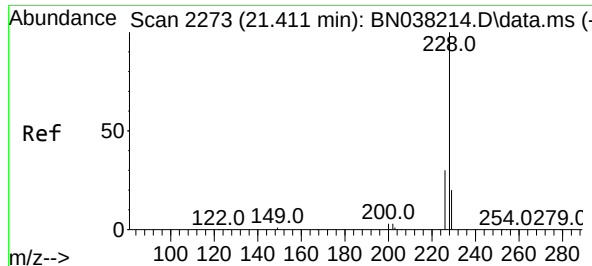
Tgt Ion:244 Resp: 16070
Ion Ratio Lower Upper
244 100
212 9.7 7.7 11.5
122 19.0 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.468 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:228 Resp: 22927
Ion Ratio Lower Upper
228 100
226 27.2 22.6 33.8
229 19.8 15.8 23.8





#33

Chrysene

Concen: 0.463 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

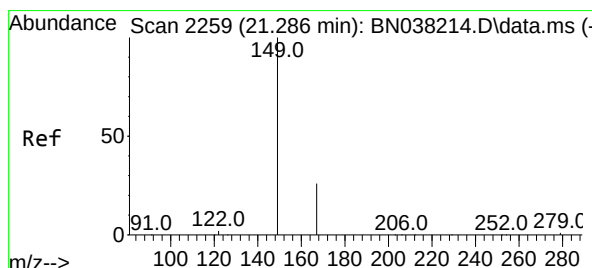
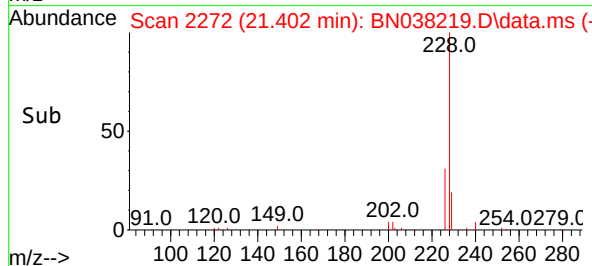
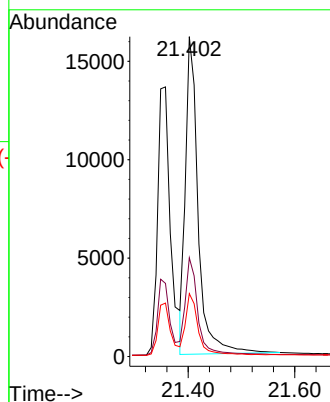
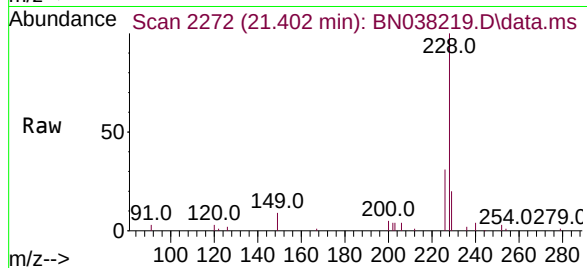
Tgt Ion:228 Resp: 26769

Ion Ratio Lower Upper

228 100

226 30.9 23.8 35.8

229 19.7 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.462 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

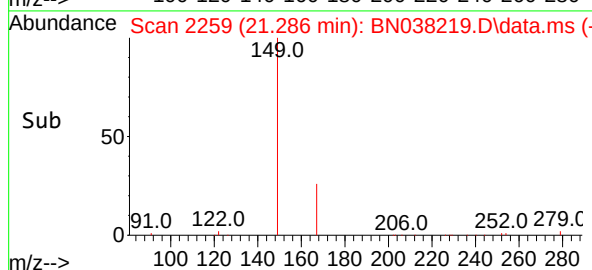
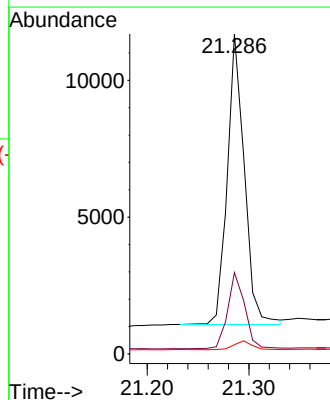
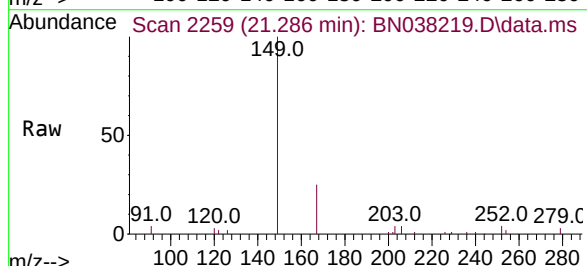
Tgt Ion:149 Resp: 12409

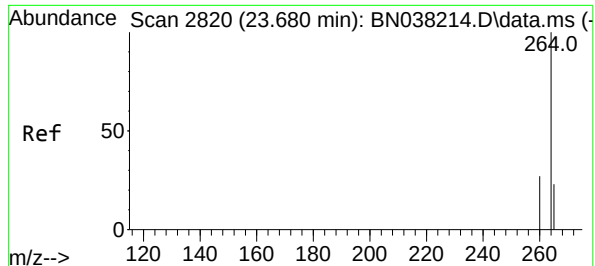
Ion Ratio Lower Upper

149 100

167 26.2 20.7 31.1

279 3.3 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.677 min Scan# 2819

Delta R.T. -0.003 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

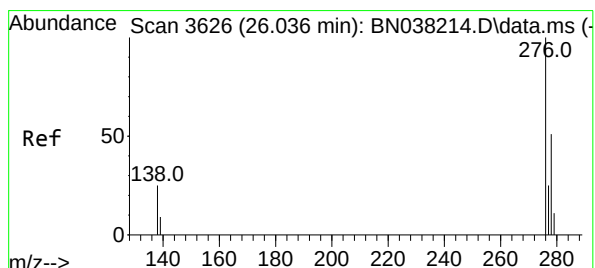
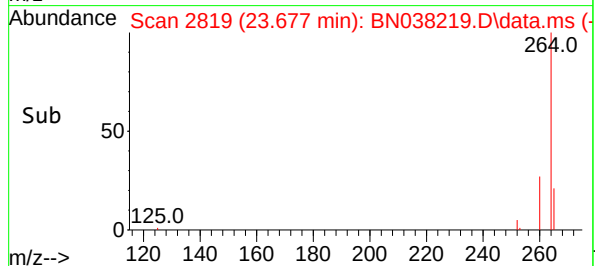
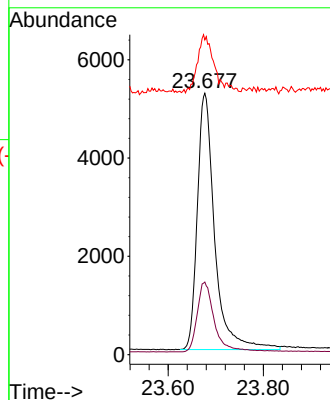
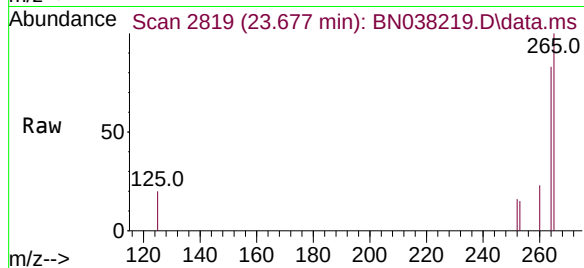
Tgt Ion:264 Resp: 13201

Ion Ratio Lower Upper

264 100

260 27.7 21.7 32.5

265 120.4 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.468 ng

RT: 26.031 min Scan# 3624

Delta R.T. -0.006 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

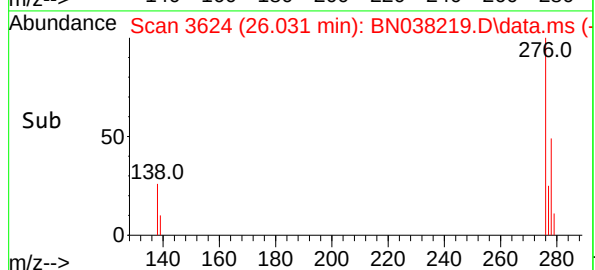
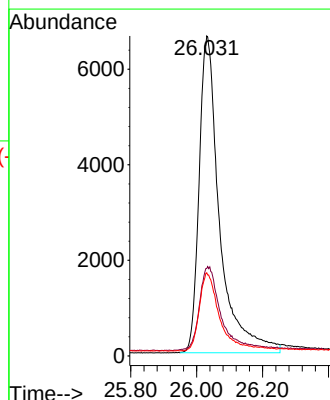
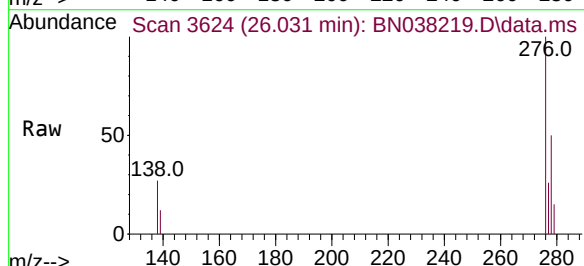
Tgt Ion:276 Resp: 28585

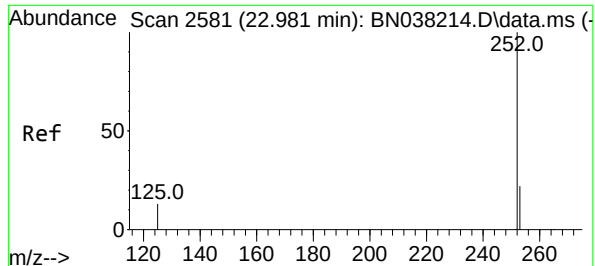
Ion Ratio Lower Upper

276 100

138 27.8 21.4 32.2

277 23.9 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.452 ng

RT: 22.978 min Scan# 2580

Delta R.T. -0.003 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

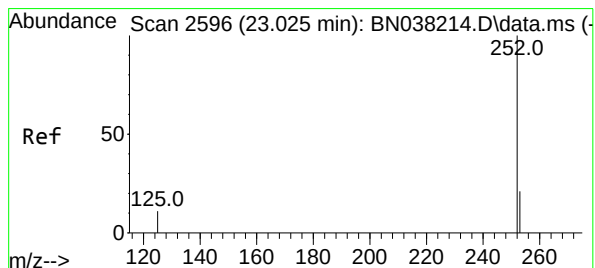
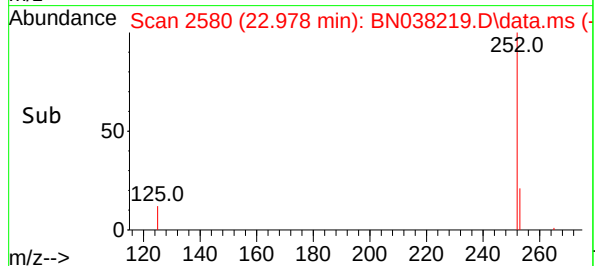
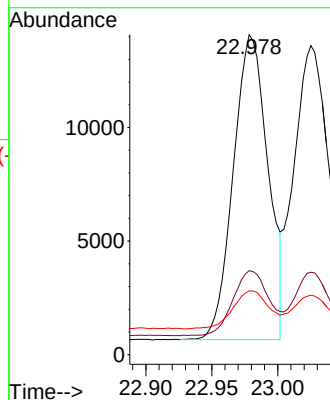
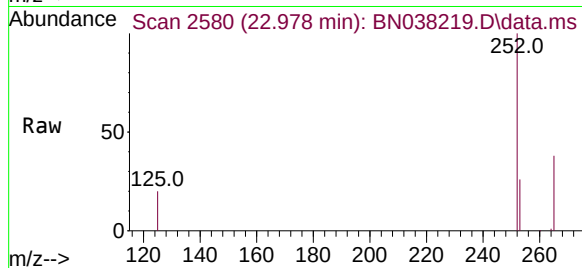
Tgt Ion:252 Resp: 24504

Ion Ratio Lower Upper

252 100

253 26.2 22.2 33.4

125 19.9 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.474 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

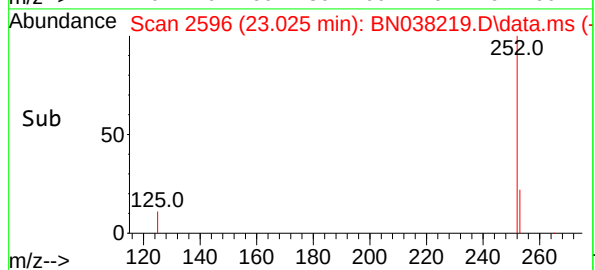
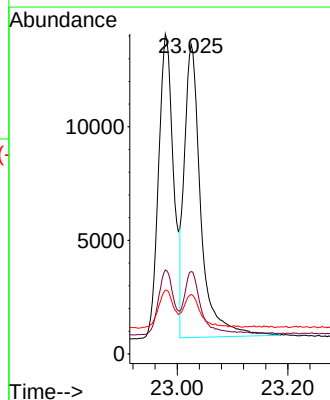
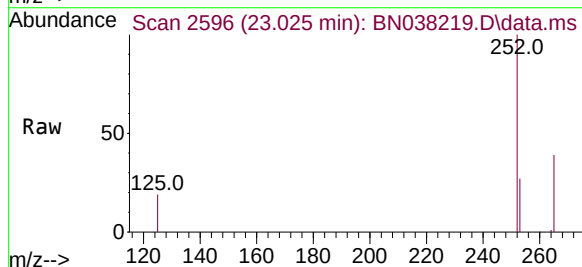
Tgt Ion:252 Resp: 26724

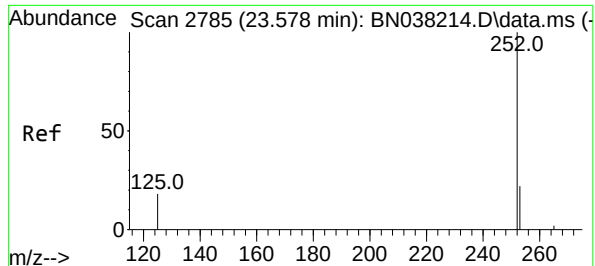
Ion Ratio Lower Upper

252 100

253 26.7 22.4 33.6

125 19.3 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.462 ng

RT: 23.578 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

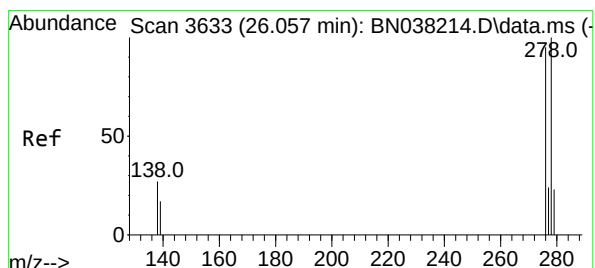
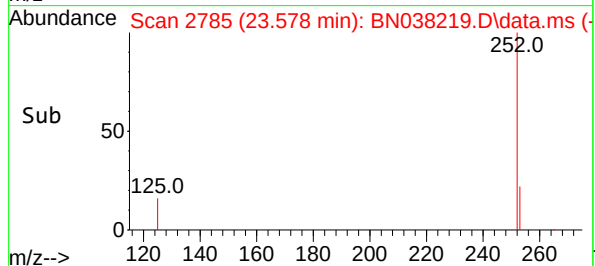
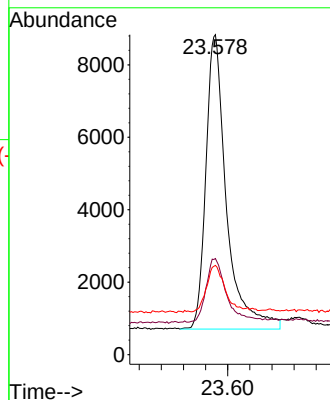
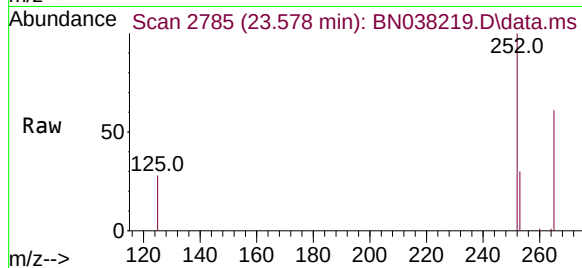
Tgt Ion:252 Resp: 20972

Ion Ratio Lower Upper

252 100

253 30.0 25.3 37.9

125 27.9 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.475 ng

RT: 26.051 min Scan# 3631

Delta R.T. -0.006 min

Lab File: BN038219.D

Acq: 27 Nov 2025 00:49

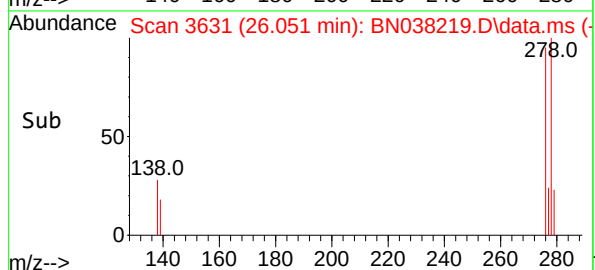
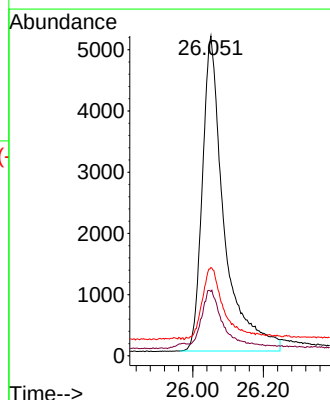
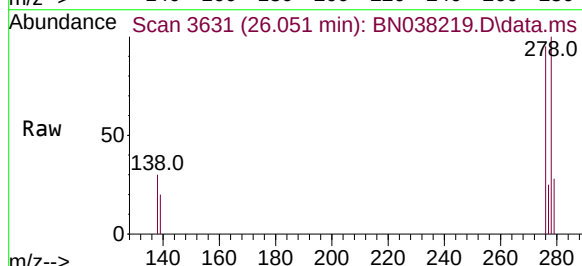
Tgt Ion:278 Resp: 21955

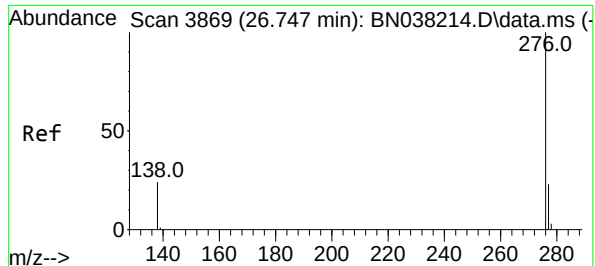
Ion Ratio Lower Upper

278 100

139 20.1 17.6 26.4

279 27.6 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.461 ng

RT: 26.744 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN038219.D

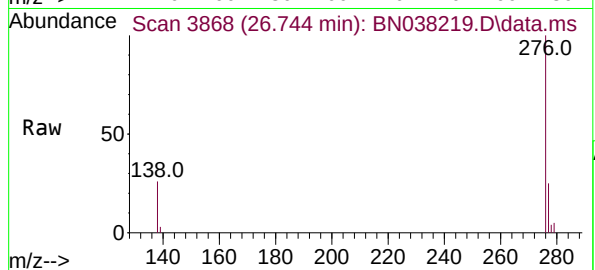
Acq: 27 Nov 2025 00:49

Instrument :

BNA_N

ClientSampleId :

ICVBN112725



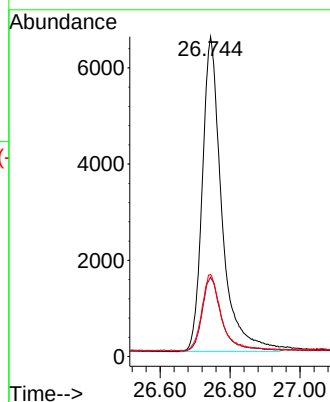
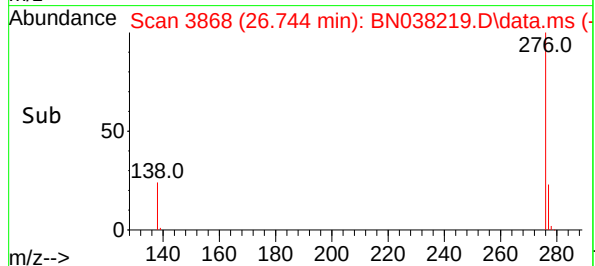
Tgt Ion:276 Resp: 25311

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 25.7 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038219.D
 Acq On : 27 Nov 2025 00:49
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112725

Quant Time: Nov 28 20:56:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
2	1,4-Dioxane	0.421	0.461	-9.5	114	0.00
3	n-Nitrosodimethylamine	0.520	0.566	-8.8	116	0.00
4 S	2-Fluorophenol	0.935	1.134	-21.3	127	0.00
5 S	Phenol-d6	1.168	1.540	-31.8#	141	0.00
6	bis(2-Chloroethyl)ether	1.118	1.337	-19.6	125	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
8 S	Nitrobenzene-d5	0.320	0.338	-5.6	123	0.00
9	Naphthalene	1.111	1.258	-13.2	123	0.00
10	Hexachlorobutadiene	0.189	0.210	-11.1	119	0.00
11 SURR	2-Methylnaphthalene-d10	0.568	0.669	-17.8	129	0.00
12	2-Methylnaphthalene	0.731	0.854	-16.8	127	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.126	0.158	-25.4#	151#	0.00
15 S	2-Fluorobiphenyl	1.545	1.791	-15.9	132	0.00
16	Acenaphthylene	1.789	1.969	-10.1	129	0.00
17	Acenaphthene	1.247	1.422	-14.0	129	0.00
18	Fluorene	1.614	1.866	-15.6	133	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00
20	4,6-Dinitro-2-methylphenol	0.042	0.051	-21.4	234#	-0.01
21	4-Bromophenyl-phenylether	0.277	0.318	-14.8	134	0.00
22	Hexachlorobenzene	0.341	0.387	-13.5	129	0.00
23	Atrazine	0.177	0.184	-4.0	126	0.00
24	Pentachlorophenol	0.093	0.142	-52.7#	202#	0.00
25	Phenanthrene	1.256	1.416	-12.7	129	0.00
26	Anthracene	1.071	1.197	-11.8	134	0.00
27 SURR	Fluoranthene-d10	0.868	0.977	-12.6	131	0.00
28	Fluoranthene	1.210	1.362	-12.6	133	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	113	0.00
30	Pyrene	1.998	2.412	-20.7	131	0.00
31 S	Terphenyl-d14	0.924	1.110	-20.1	130	0.00
32	Benzo(a)anthracene	1.355	1.583	-16.8	131	0.00
33	Chrysene	1.599	1.849	-15.6	126	0.00
34	Bis(2-ethylhexyl)phthalate	0.742	0.857	-15.5	121	0.00
35 I	Perylene-d12	1.000	1.000	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	1.851	2.165	-17.0	127	0.00
37	Benzo(b)fluoranthene	1.642	1.856	-13.0	120	0.00
38	Benzo(k)fluoranthene	1.707	2.024	-18.6	127	0.00
39 C	Benzo(a)pyrene	1.376	1.589	-15.5	127	0.00
40	Dibenzo(a,h)anthracene	1.401	1.663	-18.7	133	0.00
41	Benzo(g,h,i)perylene	1.674	1.917	-14.5	123	0.00

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

ICVBN112725

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
 Data File : BN038219.D
 Acq On : 27 Nov 2025 00:49
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN112725

Quant Time: Nov 28 20:56:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 20:22:09 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	111	0.00
2	1,4-Dioxane	0.400	0.438	-9.5	114	0.00
3	n-Nitrosodimethylamine	0.400	0.435	-8.7	116	0.00
4 S	2-Fluorophenol	0.400	0.485	-21.2	127	0.00
5 S	Phenol-d6	0.400	0.527	-31.8#	141	0.00
6	bis(2-Chloroethyl)ether	0.400	0.478	-19.5	125	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	113	0.00
8 S	Nitrobenzene-d5	0.400	0.422	-5.5	123	0.00
9	Naphthalene	0.400	0.453	-13.2	123	0.00
10	Hexachlorobutadiene	0.400	0.445	-11.2	119	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.471	-17.7	129	0.00
12	2-Methylnaphthalene	0.400	0.467	-16.8	127	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.400	0.504	-26.0#	151	0.00
15 S	2-Fluorobiphenyl	0.400	0.464	-16.0	132	0.00
16	Acenaphthylene	0.400	0.440	-10.0	129	0.00
17	Acenaphthene	0.400	0.456	-14.0	129	0.00
18	Fluorene	0.400	0.463	-15.8	133	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	120	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.648	-62.0#	234	-0.01
21	4-Bromophenyl-phenylether	0.400	0.459	-14.8	134	0.00
22	Hexachlorobenzene	0.400	0.454	-13.5	129	0.00
23	Atrazine	0.400	0.415	-3.7	126	0.00
24	Pentachlorophenol	0.400	0.609	-52.2#	202	0.00
25	Phenanthrene	0.400	0.451	-12.7	129	0.00
26	Anthracene	0.400	0.447	-11.7	134	0.00
27 SURR	Fluoranthene-d10	0.400	0.450	-12.5	131	0.00
28	Fluoranthene	0.400	0.450	-12.5	133	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	113	0.00
30	Pyrene	0.400	0.483	-20.7	131	0.00
31 S	Terphenyl-d14	0.400	0.481	-20.2	130	0.00
32	Benzo(a)anthracene	0.400	0.468	-17.0	131	0.00
33	Chrysene	0.400	0.463	-15.8	126	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.462	-15.5	121	0.00
35 I	Perylene-d12	0.400	0.400	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.468	-17.0	127	0.00
37	Benzo(b)fluoranthene	0.400	0.452	-13.0	120	0.00
38	Benzo(k)fluoranthene	0.400	0.474	-18.5	127	0.00
39 C	Benzo(a)pyrene	0.400	0.462	-15.5	127	0.00
40	Dibenzo(a,h)anthracene	0.400	0.475	-18.7	133	0.00
41	Benzo(g,h,i)perylene	0.400	0.461	-15.3	123	0.00

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

ICVBN112725



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3483
 Instrument ID: BNA_N Calibration Date/Time: 12/01/2025 10:23
 Lab File ID: BN038222.D Init. Calib. Date(s): 11/26/2025 11/27/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 20:35 00:13
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.586		3.2	20.0
Fluoranthene-d10	0.868	0.913		5.2	20.0
2-Fluorophenol	0.935	0.918		-1.8	20.0
Phenol-d6	1.168	1.147		-1.8	20.0
Nitrobenzene-d5	0.320	0.313		-2.2	20.0
Naphthalene	1.111	1.175		5.8	20.0
2-Methylnaphthalene	0.731	0.767		4.9	20.0
2-Fluorobiphenyl	1.545	1.642		6.3	20.0
Acenaphthylene	1.789	1.856		3.7	20.0
Acenaphthene	1.247	1.318		5.7	20.0
Fluorene	1.614	1.720		6.6	20.0
2,4,6-Tribromophenol	0.126	0.135		7.1	20.0
Phenanthrene	1.256	1.292		2.9	20.0
Anthracene	1.071	1.084		1.2	20.0
Fluoranthene	1.210	1.315		8.7	20.0
Pyrene	1.998	2.356		17.9	20.0
Terphenyl-d14	0.924	0.969		4.9	20.0
Benzo(a)anthracene	1.355	1.417		4.6	20.0
Chrysene	1.599	1.727		8.0	20.0
Benzo(b)fluoranthene	1.642	1.699		3.5	20.0
Benzo(k)fluoranthene	1.707	1.786		4.6	20.0
Benzo(a)pyrene	1.376	1.344		-2.3	20.0
Indeno(1,2,3-cd)pyrene	1.851	1.610		-13.0	20.0
Dibenzo(a,h)anthracene	1.401	1.136		-18.9	20.0
Benzo(g,h,i)perylene	1.674	1.675		0.1	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038222.D
 Acq On : 01 Dec 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 10:47:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

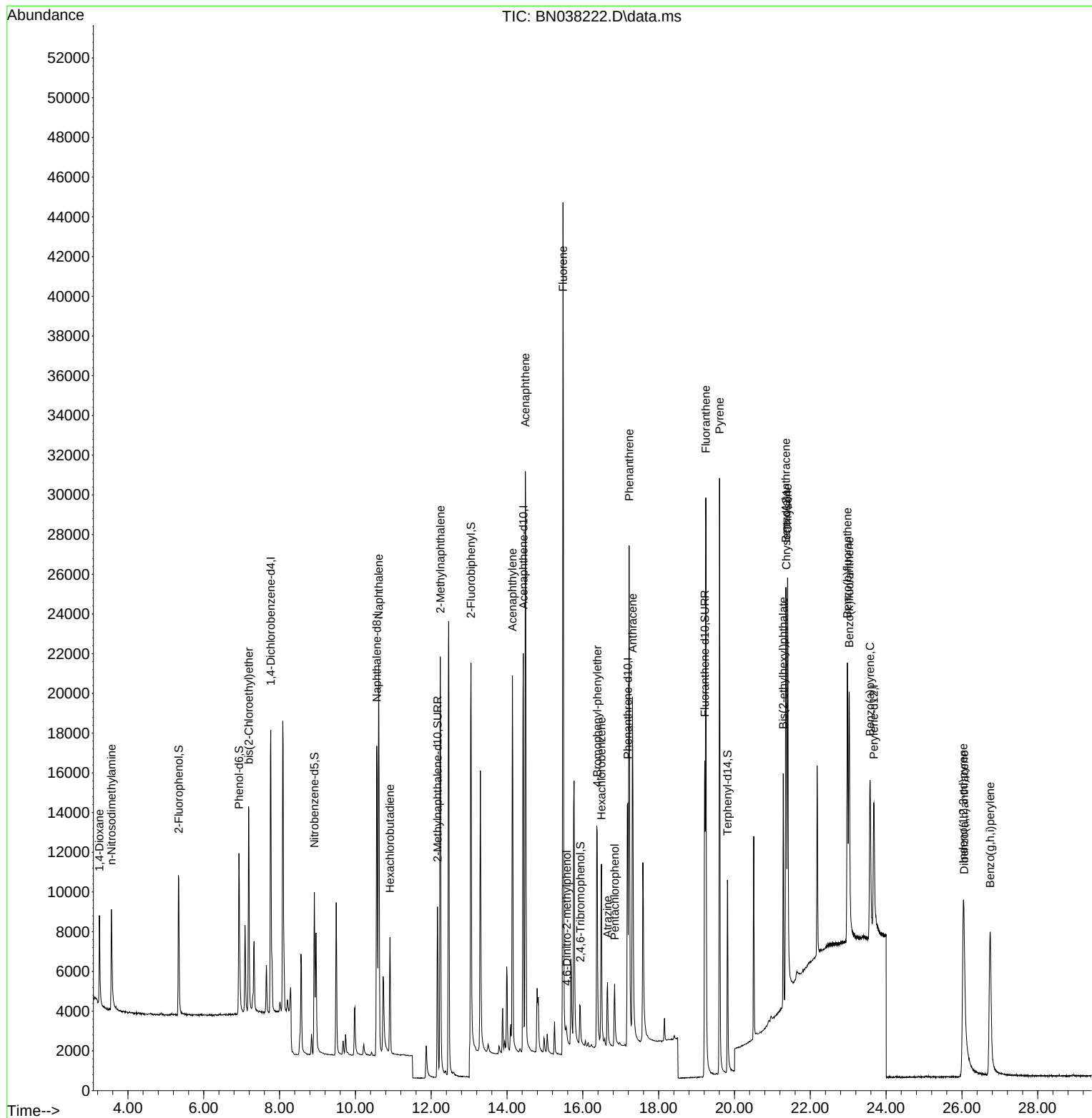
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	7356	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	22525	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	12376	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	22320	0.400	ng	0.00
29) Chrysene-d12	21.366	240	12271	0.400	ng	0.00
35) Perylene-d12	23.674	264	11359	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	6753	0.393	ng	0.00
5) Phenol-d6	6.930	99	8437	0.393	ng	0.00
8) Nitrobenzene-d5	8.918	82	7042	0.391	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	13197	0.413	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	1670	0.429	ng	0.00
15) 2-Fluorobiphenyl	13.051	172	20324	0.425	ng	0.00
27) Fluoranthene-d10	19.215	212	20388	0.421	ng	0.00
31) Terphenyl-d14	19.815	244	11886	0.419	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.247	88	3193	0.412	ng	98
3) n-Nitrosodimethylamine	3.564	42	3975	0.416	ng	# 98
6) bis(2-Chloroethyl)ether	7.190	93	8705	0.423	ng	99
9) Naphthalene	10.616	128	26471	0.423	ng	100
10) Hexachlorobutadiene	10.915	225	4648	0.437	ng	# 100
12) 2-Methylnaphthalene	12.243	142	17274	0.420	ng	99
16) Acenaphthylene	14.142	152	22968	0.415	ng	99
17) Acenaphthene	14.484	154	16308	0.423	ng	99
18) Fluorene	15.478	166	21287	0.426	ng	100
20) 4,6-Dinitro-2-methylph...	15.572	198	712	0.465	ng	# 74
21) 4-Bromophenyl-phenylether	16.379	248	6219	0.402	ng	96
22) Hexachlorobenzene	16.491	284	7992	0.420	ng	100
23) Atrazine	16.652	200	3613	0.366	ng	99
24) Pentachlorophenol	16.838	266	2123	0.407	ng	100
25) Phenanthrene	17.223	178	28839	0.412	ng	99
26) Anthracene	17.310	178	24199	0.405	ng	99
28) Fluoranthene	19.243	202	29360	0.435	ng	100
30) Pyrene	19.606	202	28909	0.472	ng	99
32) Benzo(a)anthracene	21.357	228	17382	0.418	ng	99
33) Chrysene	21.402	228	21193	0.432	ng	98
34) Bis(2-ethylhexyl)phtha...	21.286	149	10784	0.474	ng	100
36) Indeno(1,2,3-cd)pyrene	26.034	276	18289	0.348	ng	98
37) Benzo(b)fluoranthene	22.978	252	19304	0.414	ng	98
38) Benzo(k)fluoranthene	23.025	252	20292	0.419	ng	100
39) Benzo(a)pyrene	23.575	252	15267	0.391	ng	98
40) Dibenzo(a,h)anthracene	26.057	278	12904	0.324	ng	98
41) Benzo(g,h,i)perylene	26.747	276	19028	0.400	ng	99

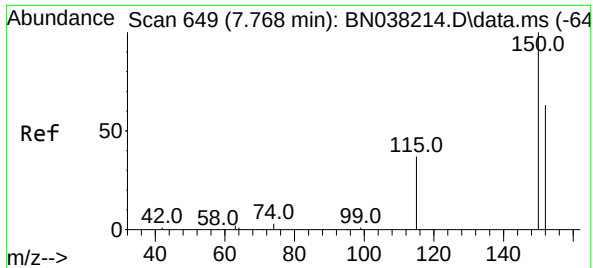
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Data File : BN038222.D
Acq On : 01 Dec 2025 10:23
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 01 10:47:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

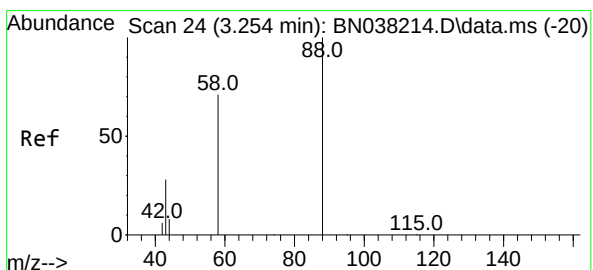
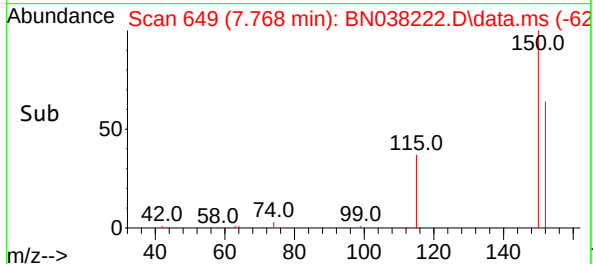
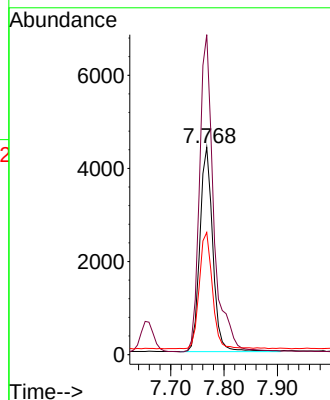
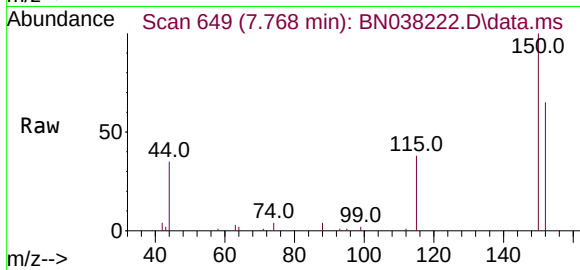




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.768 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN038222.D
 Acq: 01 Dec 2025 10:23

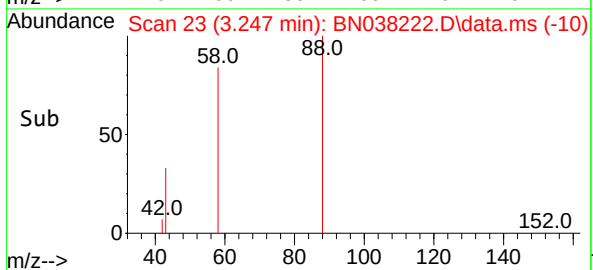
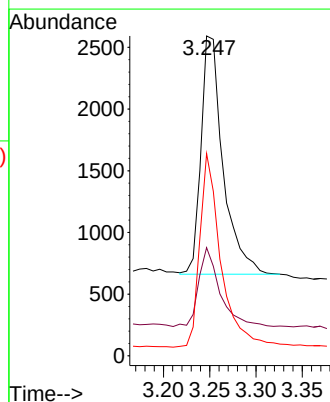
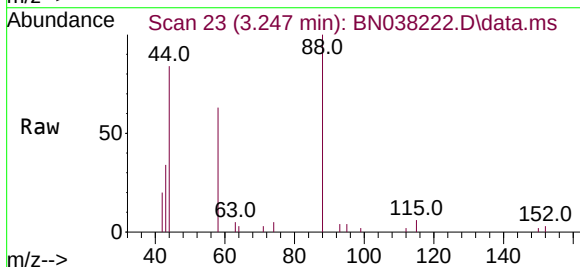
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

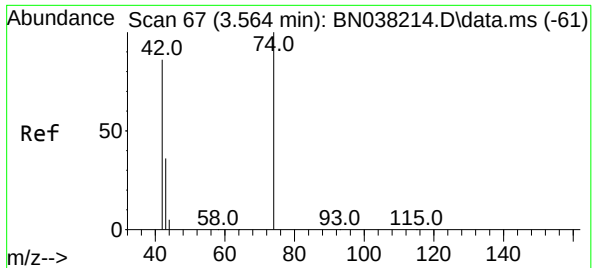
Tgt Ion:152 Resp: 7356
 Ion Ratio Lower Upper
 152 100
 150 154.4 125.3 187.9
 115 58.9 49.0 73.4



#2
 1,4-Dioxane
 Concen: 0.412 ng
 RT: 3.247 min Scan# 23
 Delta R.T. -0.007 min
 Lab File: BN038222.D
 Acq: 01 Dec 2025 10:23

Tgt Ion: 88 Resp: 3193
 Ion Ratio Lower Upper
 88 100
 43 31.9 24.8 37.2
 58 78.1 61.1 91.7

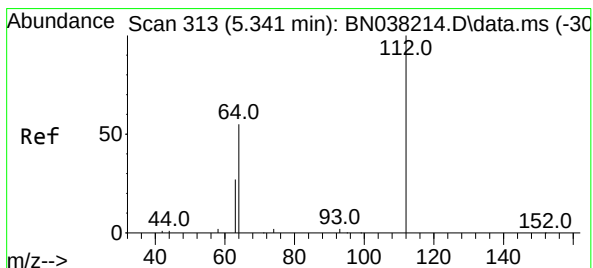
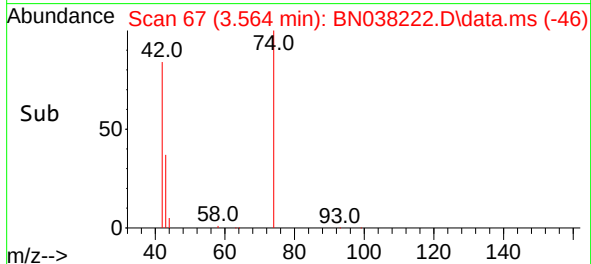
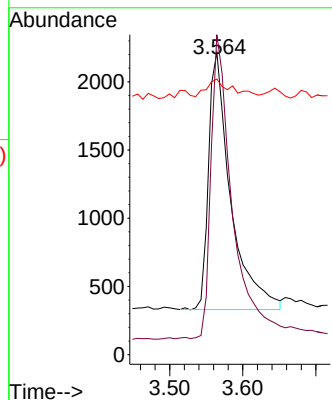
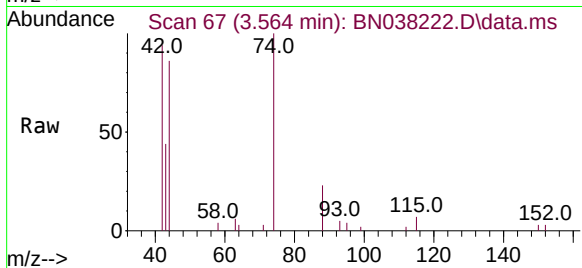




#3
n-Nitrosodimethylamine
Concen: 0.416 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

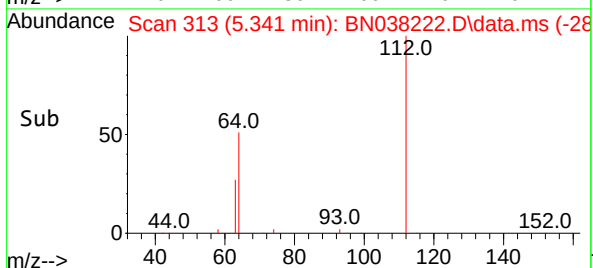
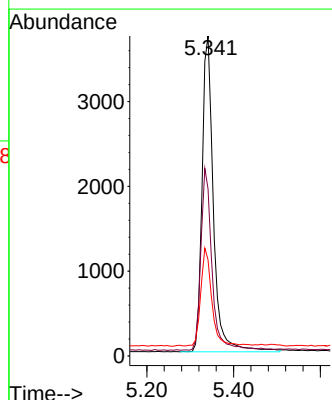
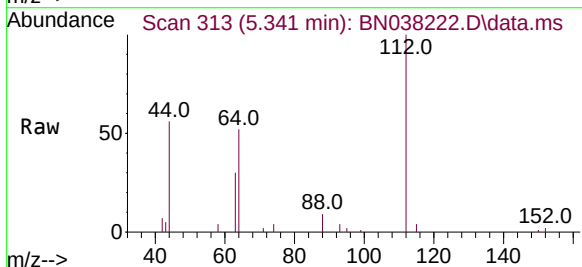
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

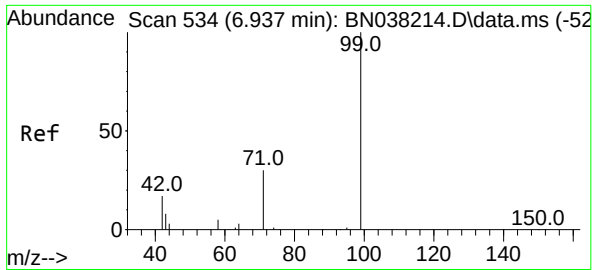
Tgt Ion: 42 Resp: 3975
Ion Ratio Lower Upper
42 100
74 118.9 96.2 144.2
44 7.3 8.0 12.0#



#4
2-Fluorophenol
Concen: 0.393 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion: 112 Resp: 6753
Ion Ratio Lower Upper
112 100
64 56.2 45.0 67.4
63 29.7 23.2 34.8

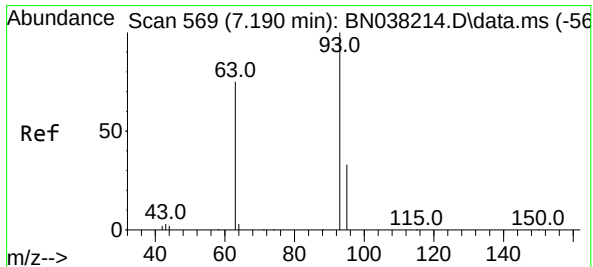
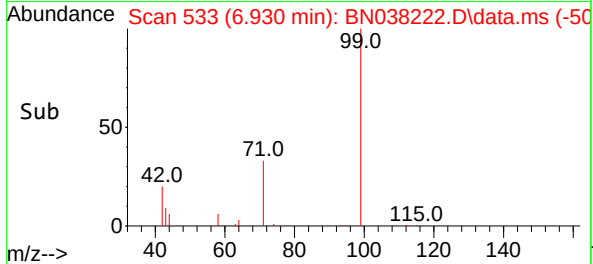
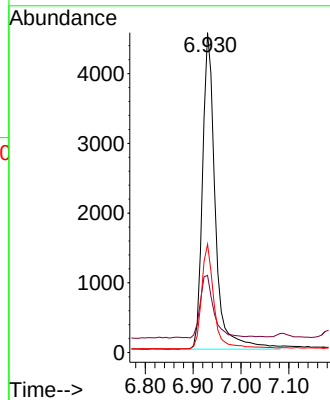
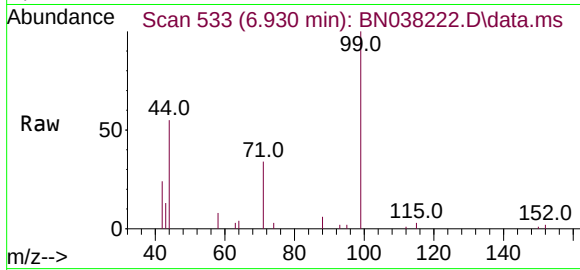




#5
Phenol-d6
Concen: 0.393 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

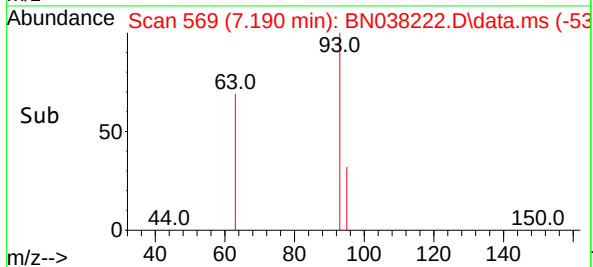
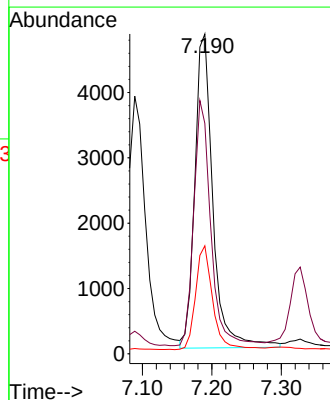
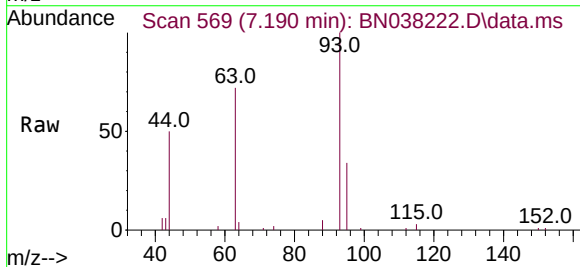
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

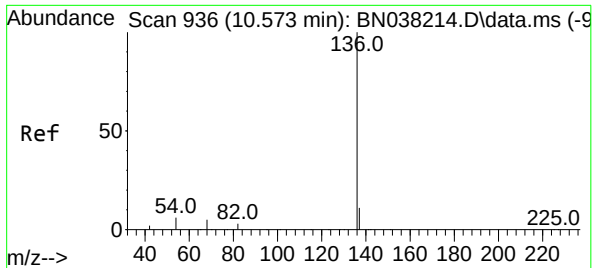
Tgt Ion: 99 Resp: 8437
Ion Ratio Lower Upper
99 100
42 20.5 17.0 25.6
71 32.4 25.4 38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.423 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion: 93 Resp: 8705
Ion Ratio Lower Upper
93 100
63 73.8 58.1 87.1
95 31.4 25.1 37.7

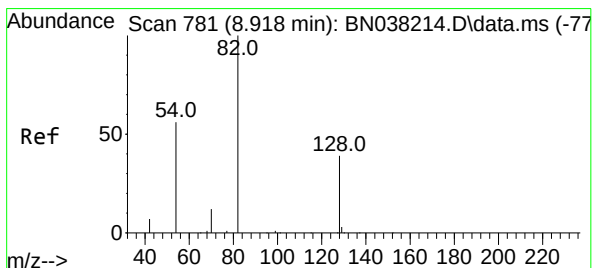
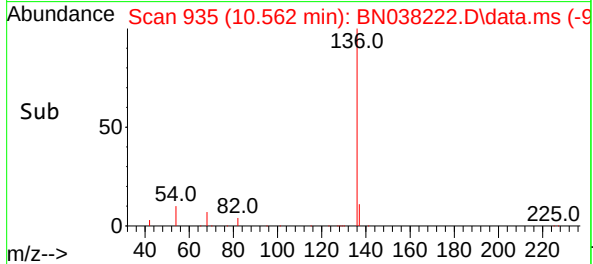
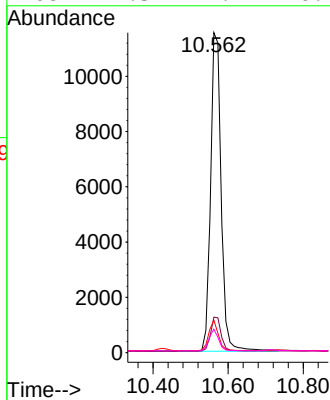
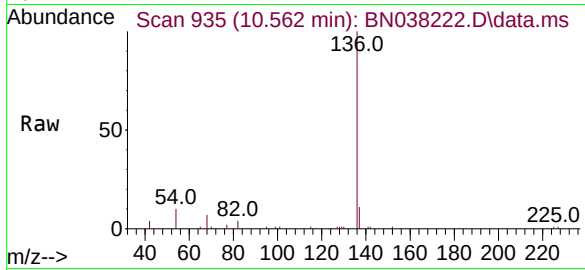




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

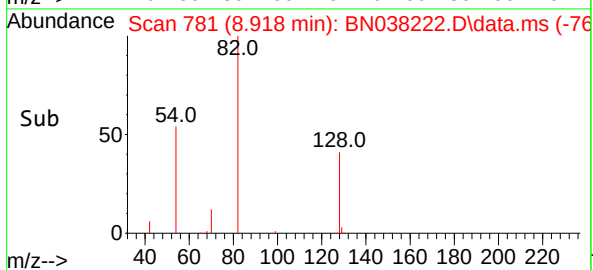
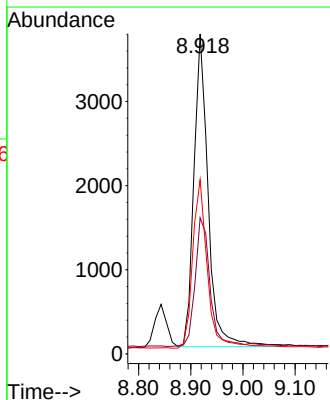
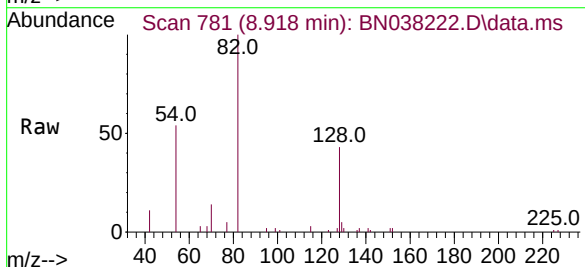
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

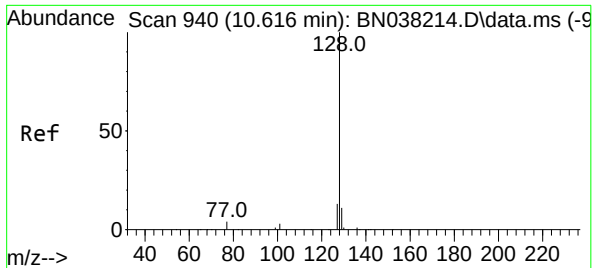
Tgt Ion:	136	Resp:	22525
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	10.1	5.4	8.0#
68	7.3	4.1	6.1#



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:	82	Resp:	7042
Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.6	48.8
54	54.4	45.4	68.0

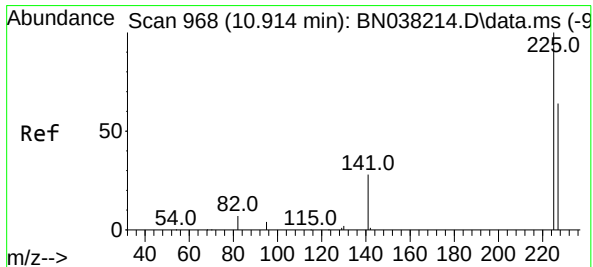
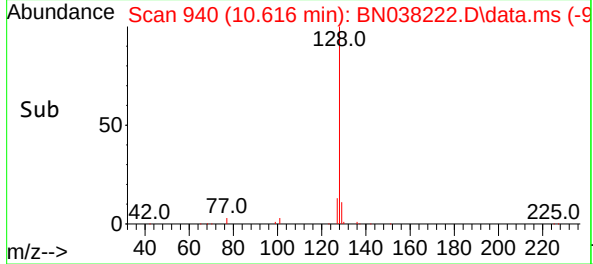
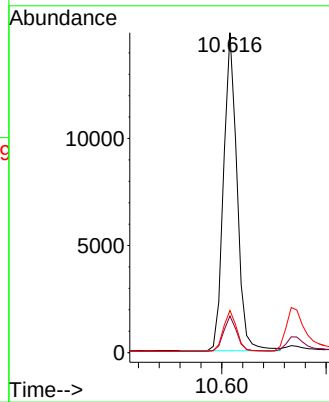
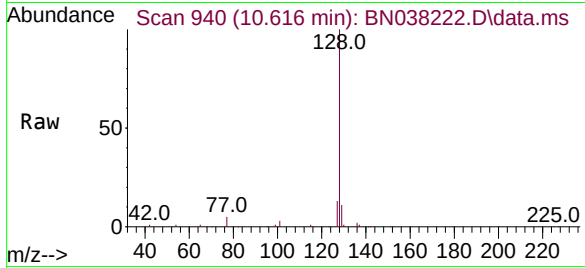




#9
Naphthalene
Concen: 0.423 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

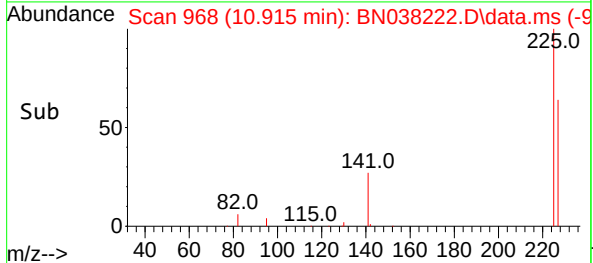
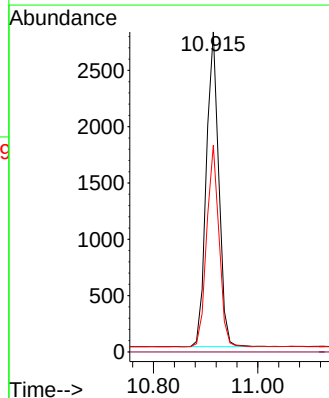
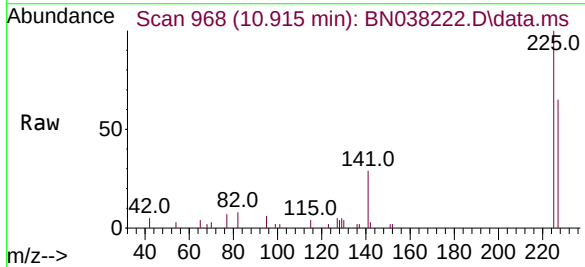
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

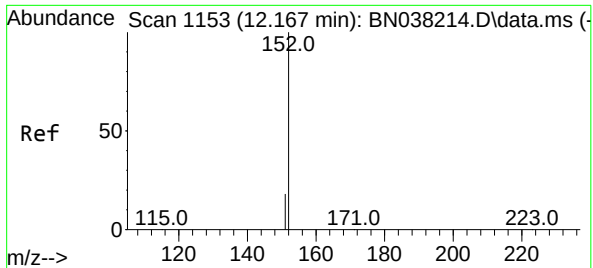
Tgt Ion:	128	Resp:	26471
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.2	10.6	16.0



#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:	225	Resp:	4648
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.5	75.7

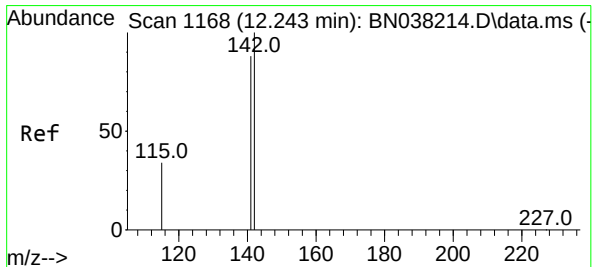
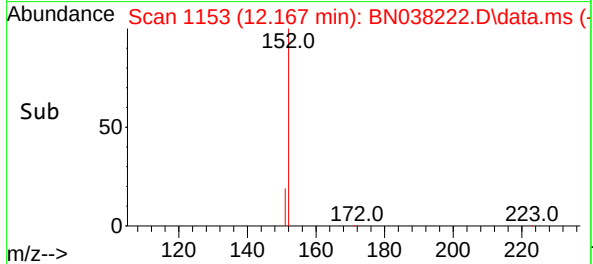
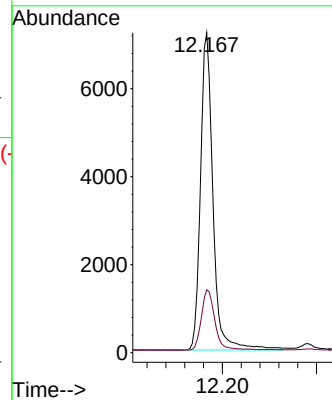
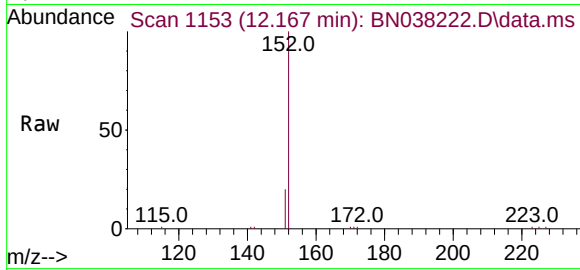




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

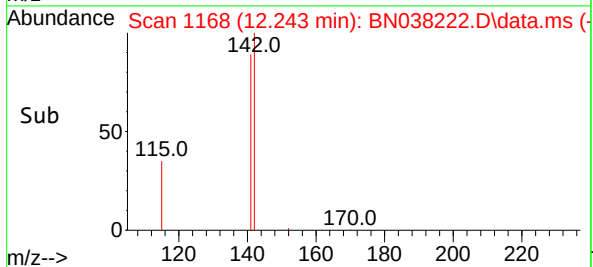
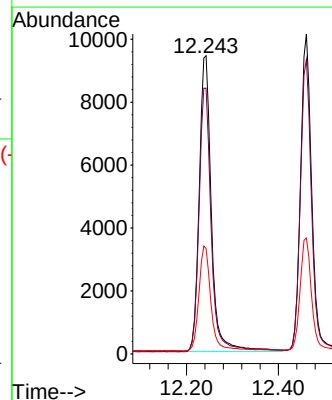
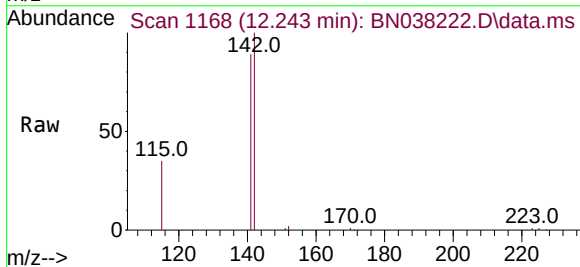
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

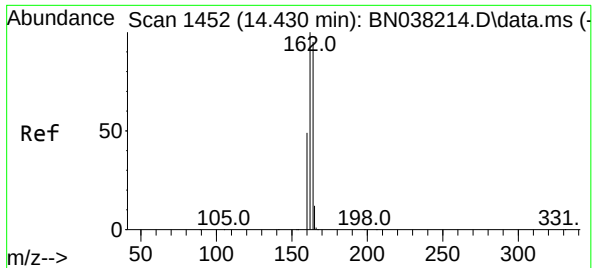
Tgt Ion:152 Resp: 13197
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.420 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:142 Resp: 17274
Ion Ratio Lower Upper
142 100
141 89.1 70.9 106.3
115 35.4 27.7 41.5

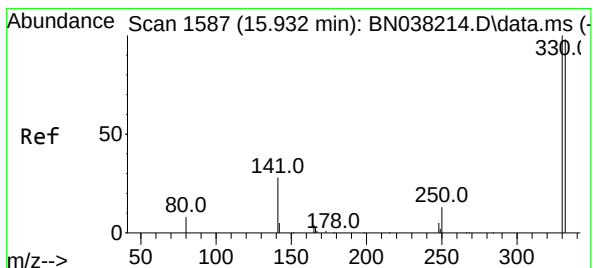
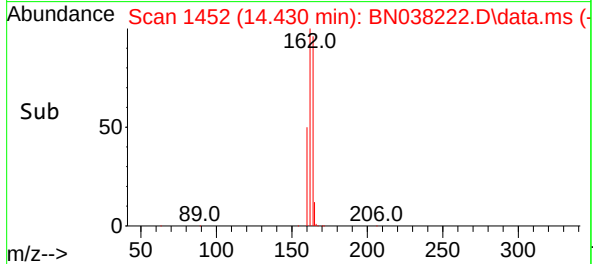
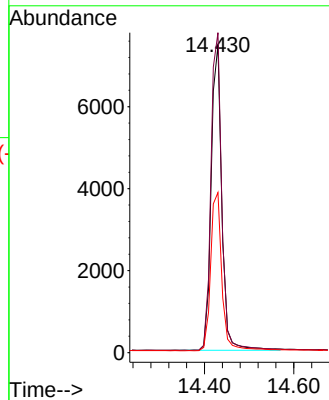
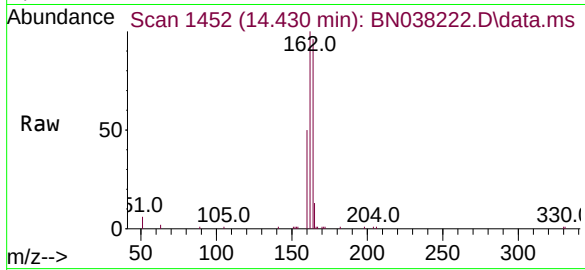




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

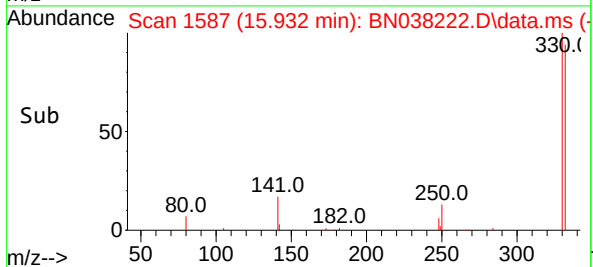
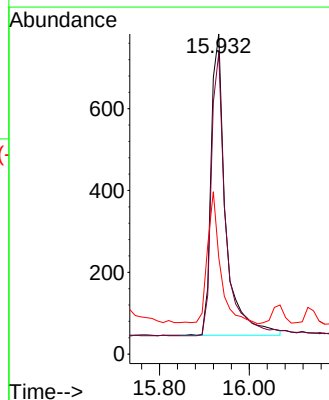
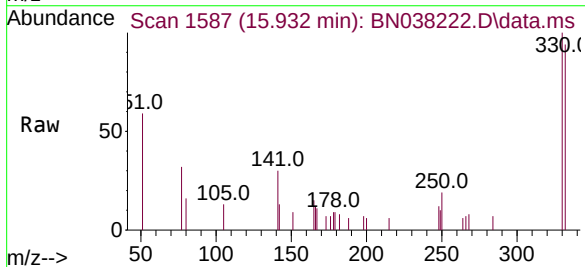
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

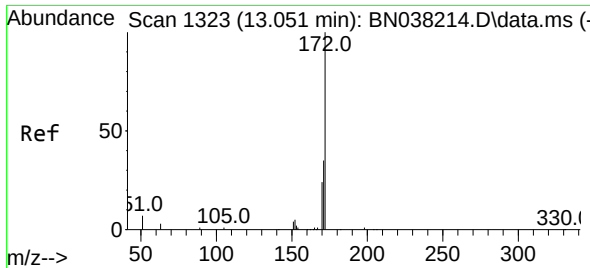
Tgt Ion:164 Resp: 12376
Ion Ratio Lower Upper
164 100
162 104.1 83.8 125.8
160 52.1 41.6 62.4



#14
2,4,6-Tribromophenol
Concen: 0.429 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:330 Resp: 1670
Ion Ratio Lower Upper
330 100
332 94.3 77.8 116.6
141 38.6 33.0 49.4

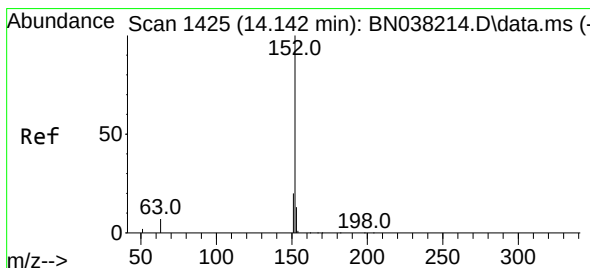
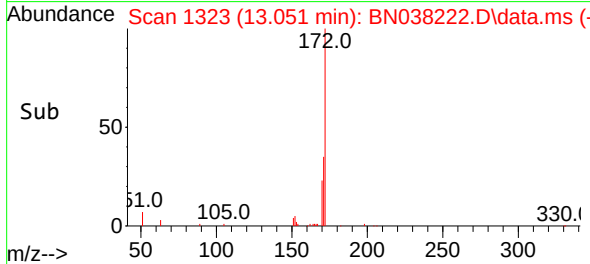
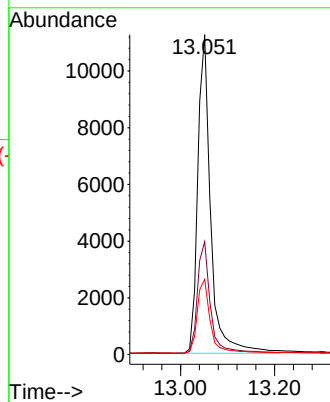
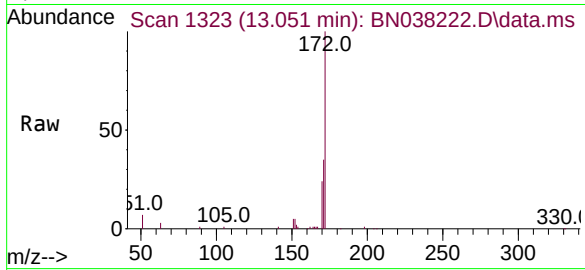




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

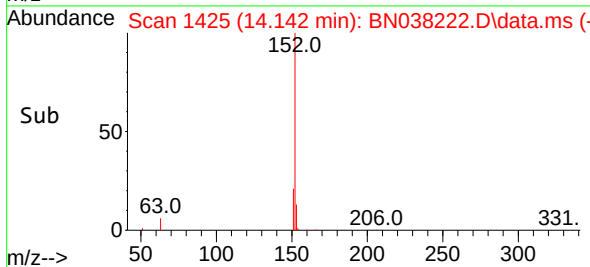
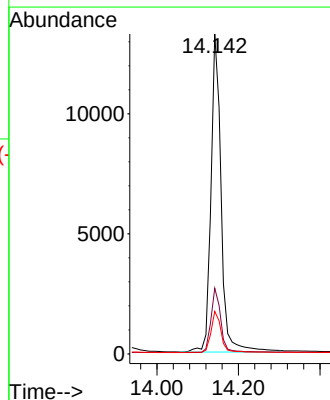
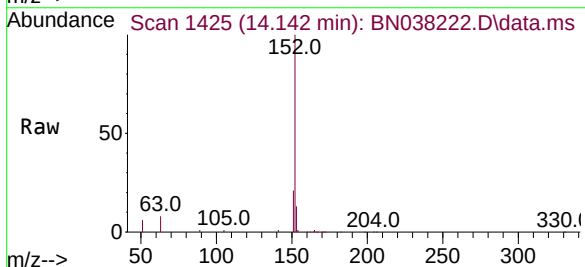
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

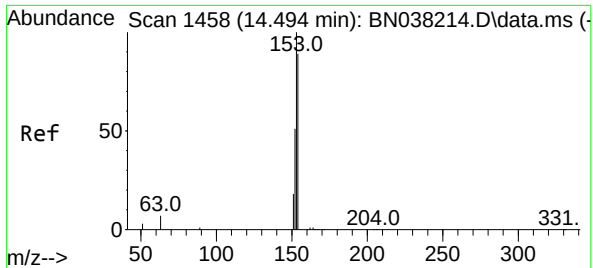
Tgt Ion:	172	Resp:	20324
Ion Ratio	Lower	Upper	
172	100		
171	35.3	28.1	42.1
170	23.5	19.1	28.7



#16
Acenaphthylene
Concen: 0.415 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:	152	Resp:	22968
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.6	23.4
153	13.0	10.6	15.8

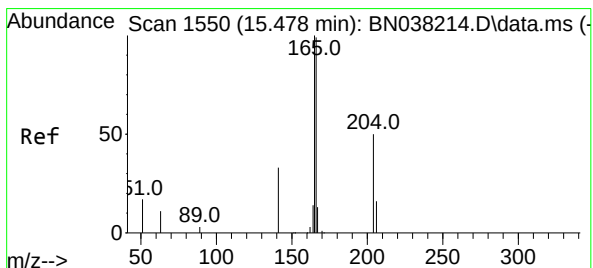
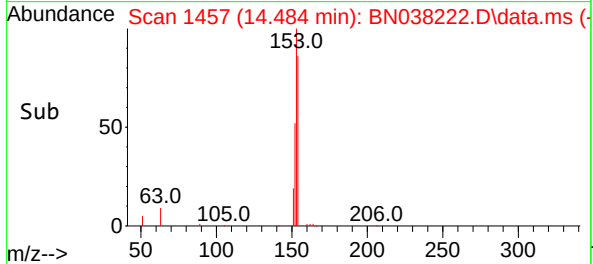
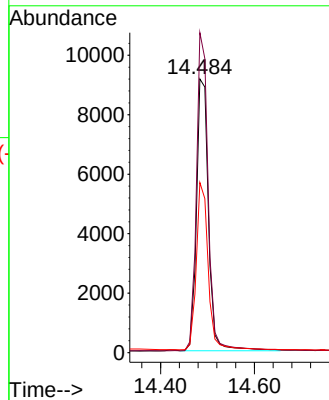
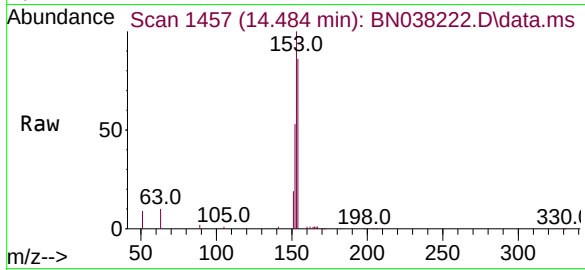




#17
Acenaphthene
Concen: 0.423 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

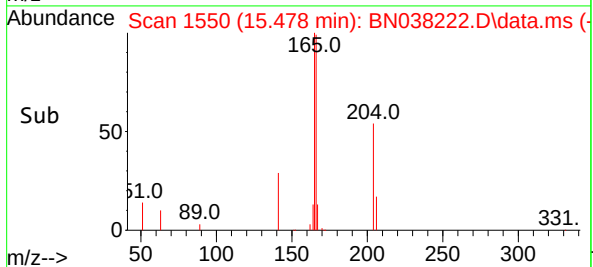
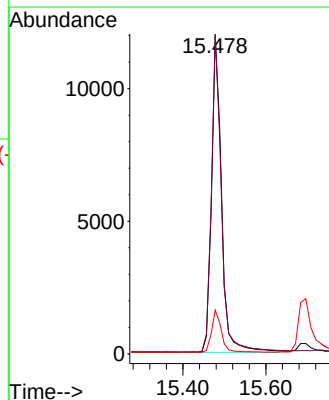
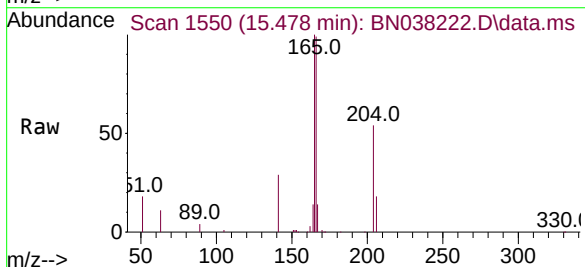
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

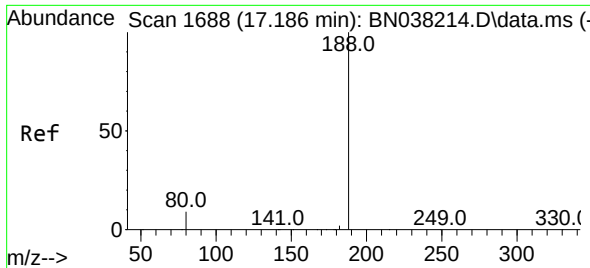
Tgt Ion:154 Resp: 16308
Ion Ratio Lower Upper
154 100
153 114.7 91.1 136.7
152 60.9 48.2 72.2



#18
Fluorene
Concen: 0.426 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:166 Resp: 21287
Ion Ratio Lower Upper
166 100
165 98.8 78.7 118.1
167 13.2 10.9 16.3

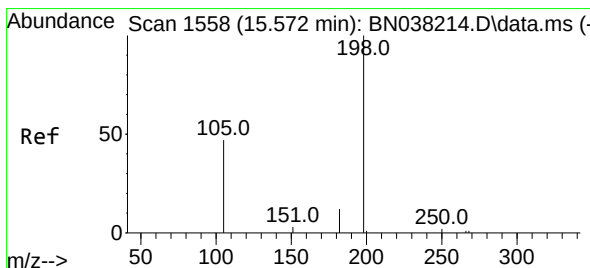
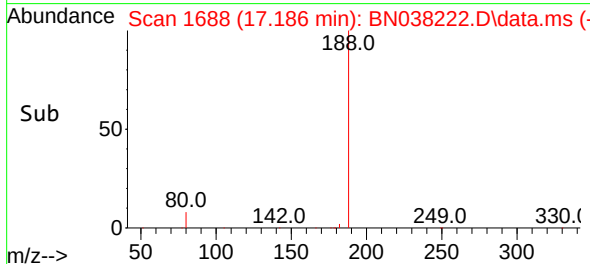
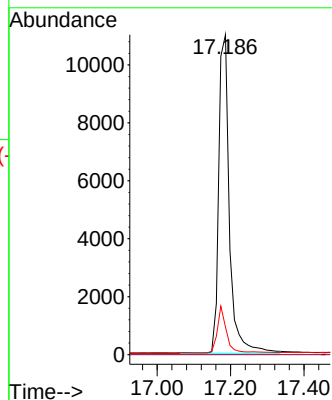
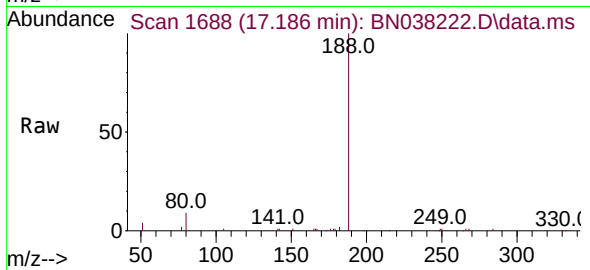




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

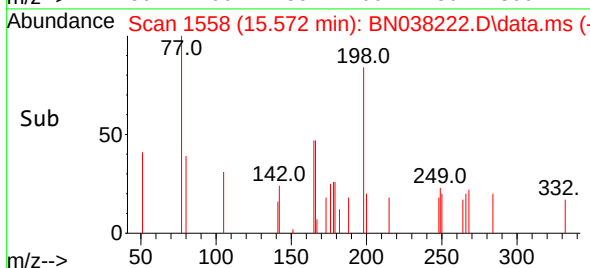
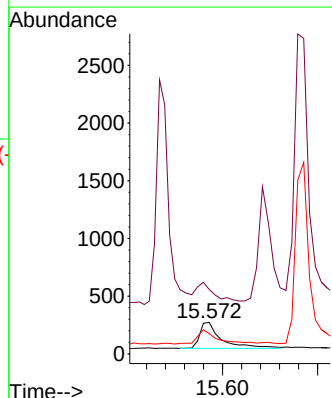
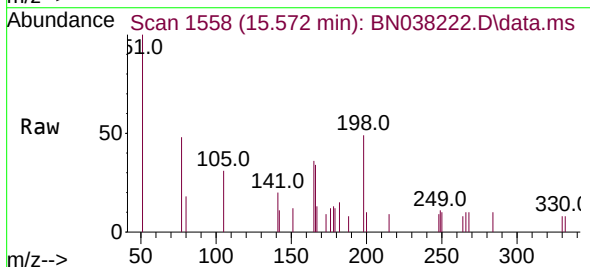
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

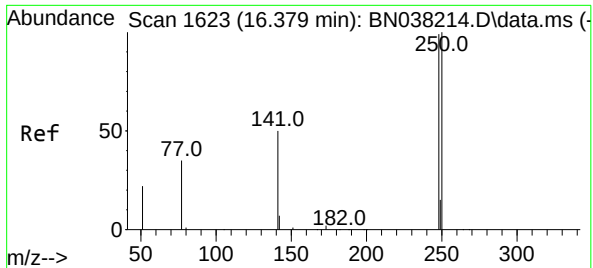
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	7.7	11.5



#20
4,6-Dinitro-2-methylphenol
Concen: 0.465 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion	Ratio	Lower	Upper
198	100		
51	204.0	205.1	307.7#
105	64.1	61.6	92.4

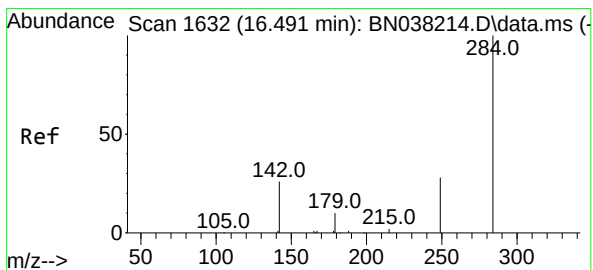
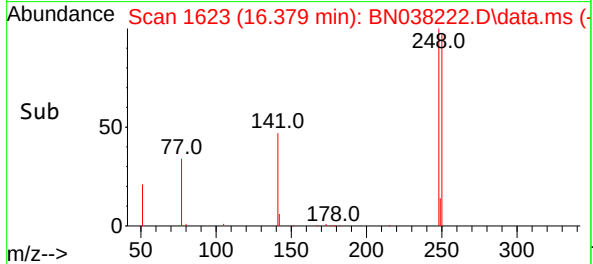
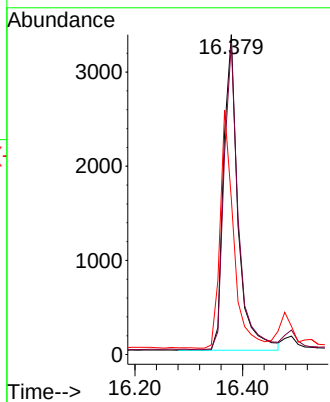
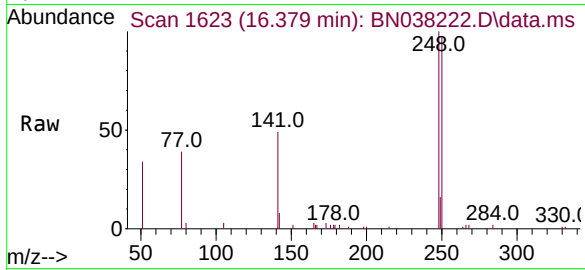




#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

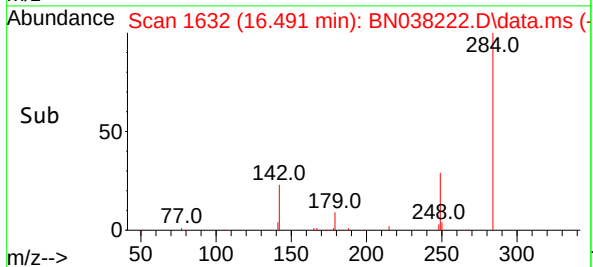
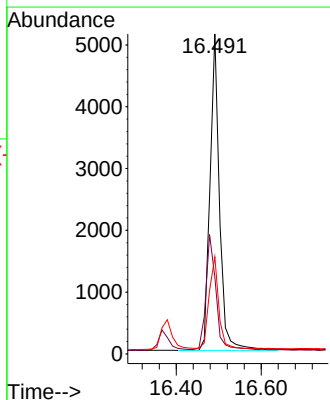
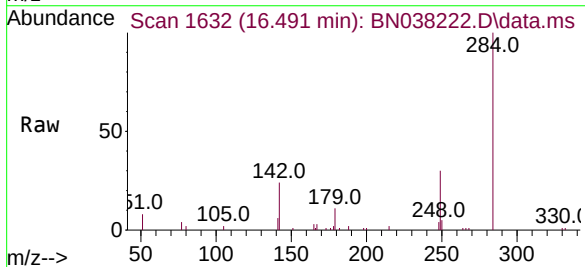
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

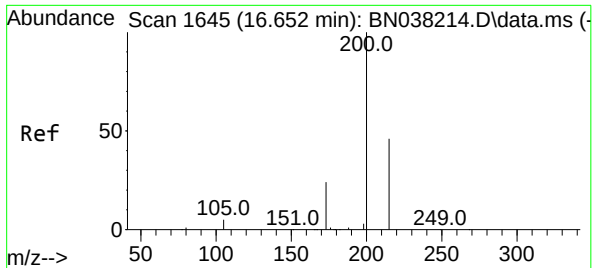
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.4	80.8	121.2
141	48.7	41.0	61.6



#22
Hexachlorobenzene
Concen: 0.420 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.9	30.5	45.7
249	29.6	23.8	35.8

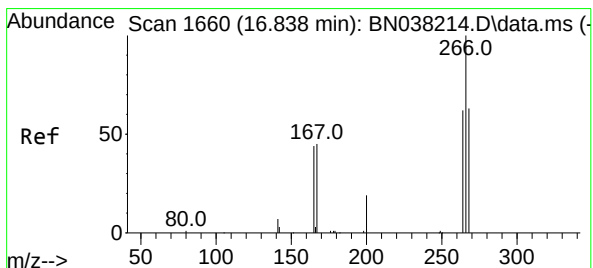
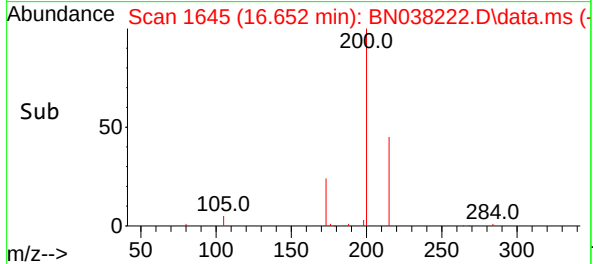
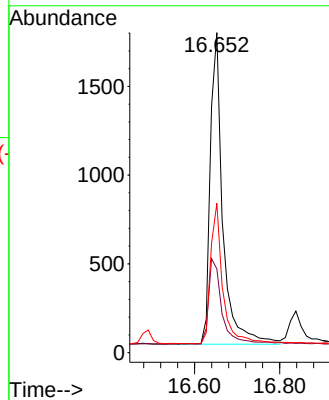
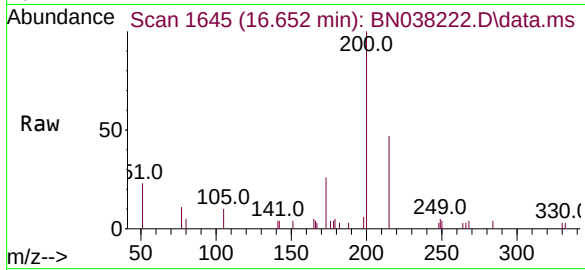




#23
Atrazine
Concen: 0.366 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

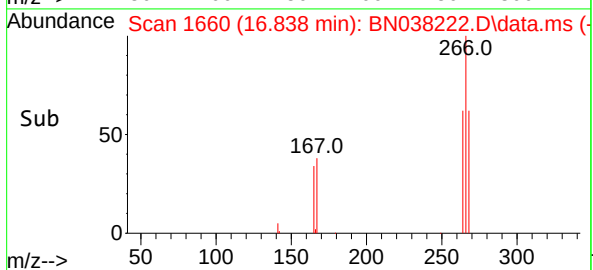
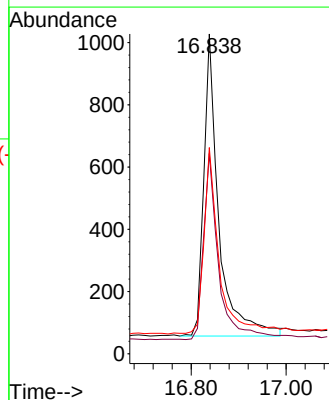
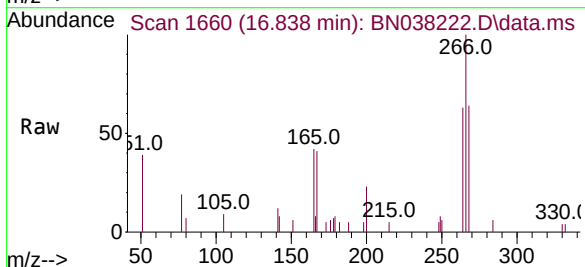
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

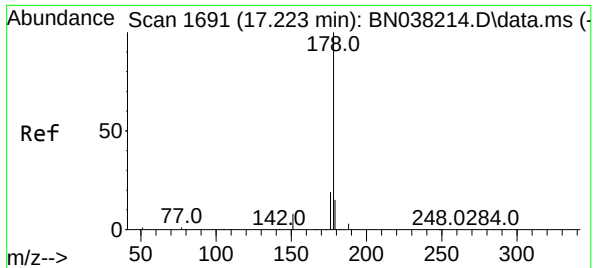
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.2	21.0	31.6
215	46.7	37.8	56.8



#24
Pentachlorophenol
Concen: 0.407 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.7	48.9	73.3
268	62.9	50.2	75.2

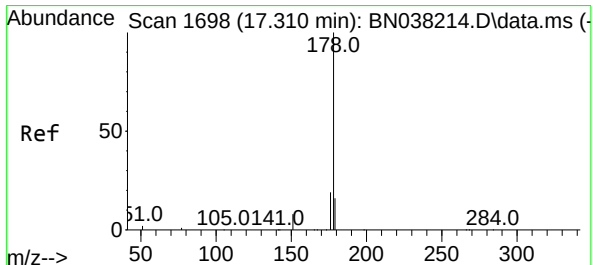
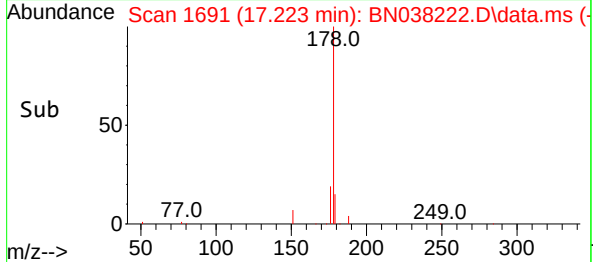
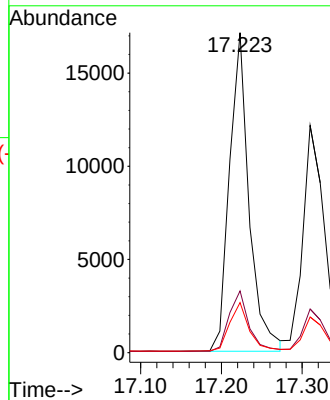
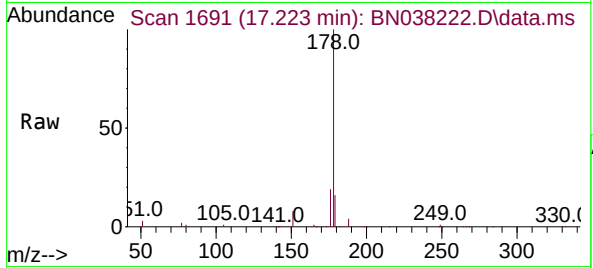




#25
Phenanthrene
Concen: 0.412 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

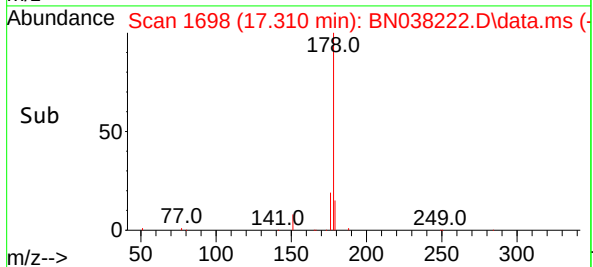
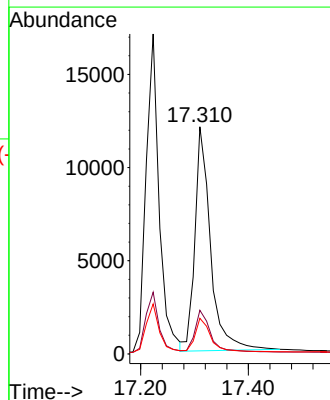
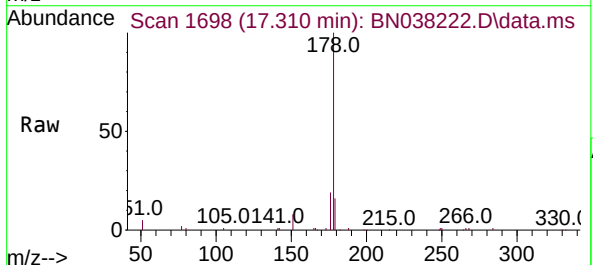
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

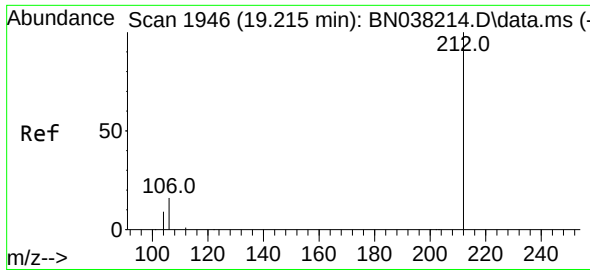
Tgt Ion:178 Resp: 28839
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.4 12.0 18.0



#26
Anthracene
Concen: 0.405 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:178 Resp: 24199
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.421 ng

RT: 19.215 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

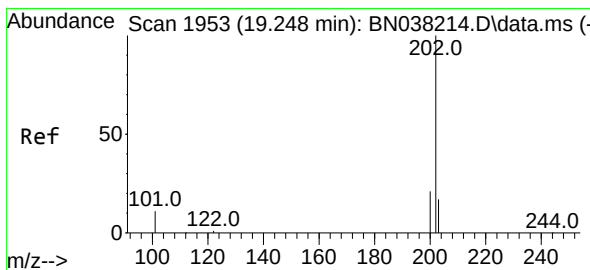
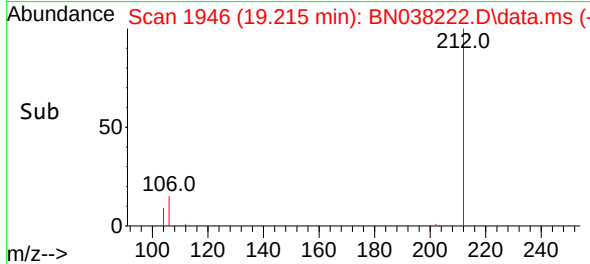
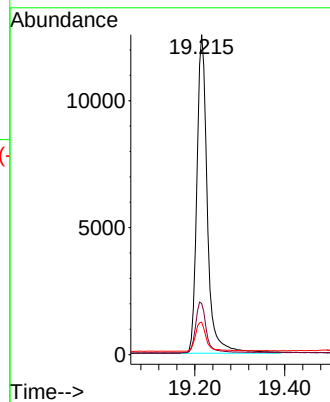
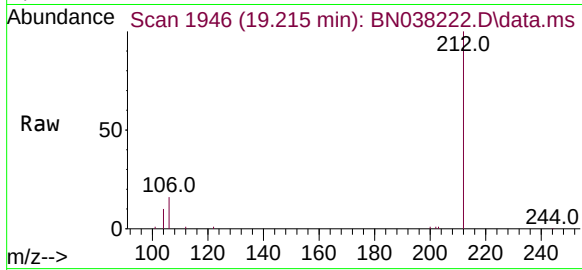
Tgt Ion:212 Resp: 20388

Ion Ratio Lower Upper

212 100

106 16.3 12.7 19.1

104 9.6 7.3 10.9



#28

Fluoranthene

Concen: 0.435 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

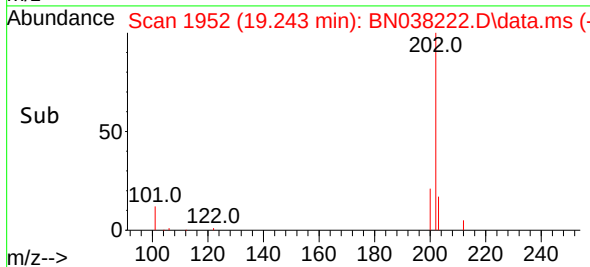
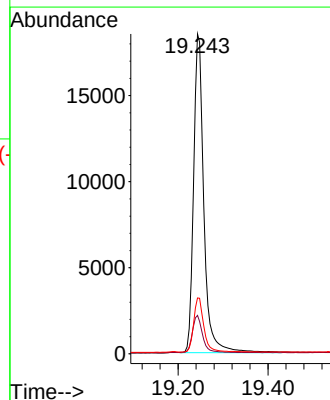
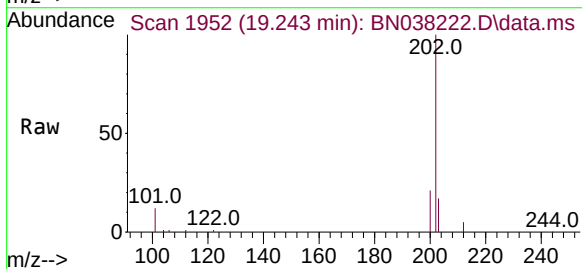
Tgt Ion:202 Resp: 29360

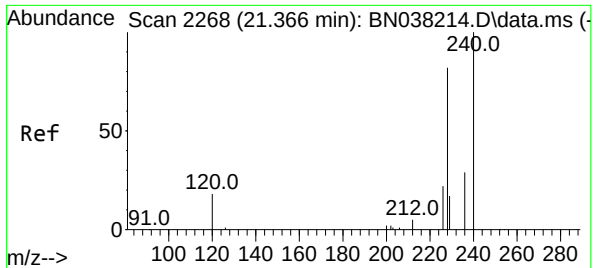
Ion Ratio Lower Upper

202 100

101 12.0 9.8 14.6

203 17.1 13.6 20.4

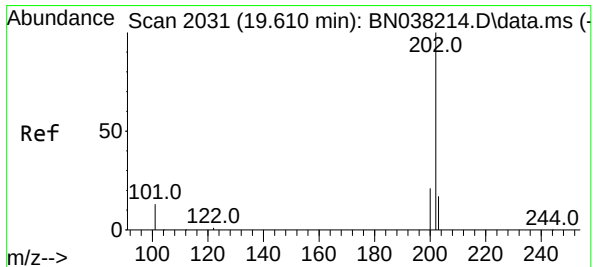
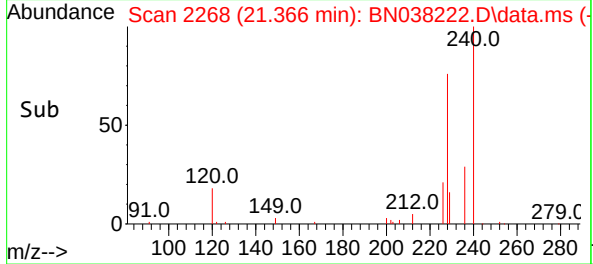
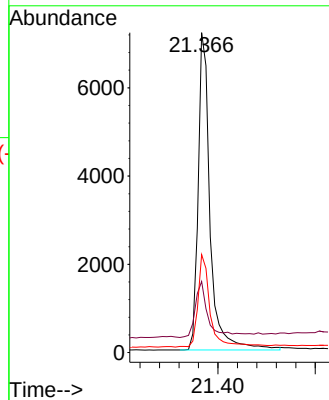
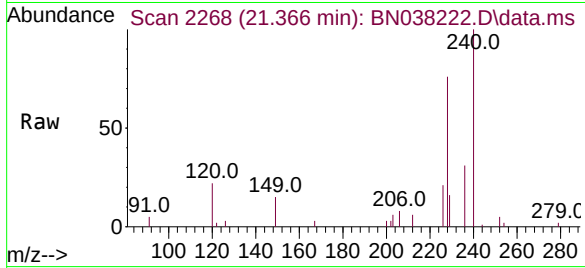




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

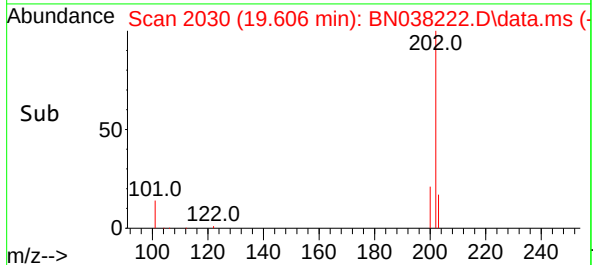
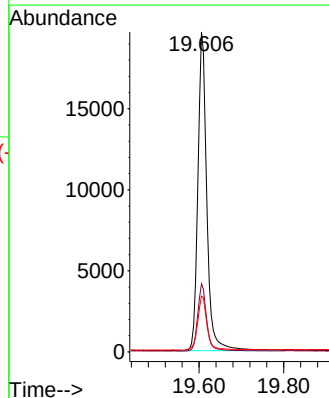
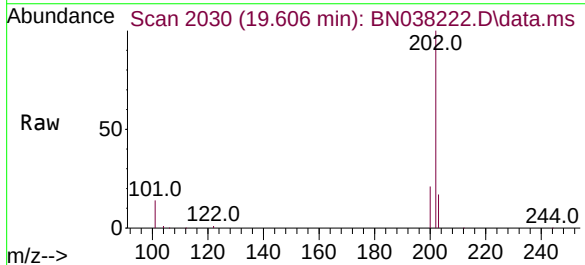
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

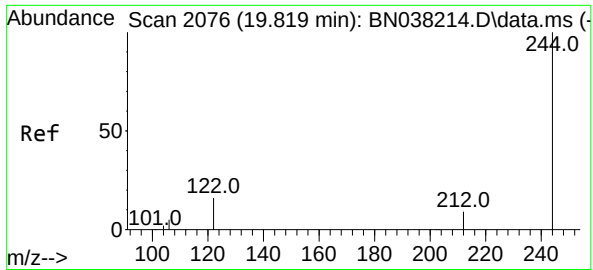
Tgt Ion:	240	Resp:	12271
Ion Ratio	Lower	Upper	
240	100		
120	22.2	18.1	27.1
236	30.6	24.2	36.4



#30
Pyrene
Concen: 0.472 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:	202	Resp:	28909
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.8	25.2
203	17.5	14.4	21.6

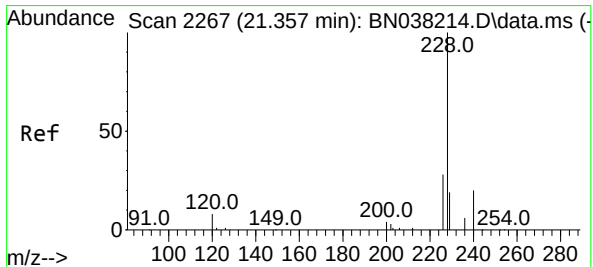
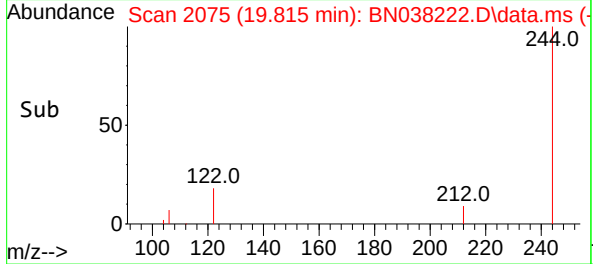
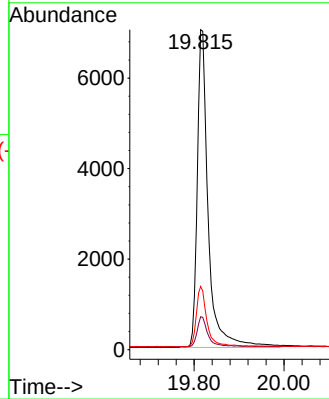
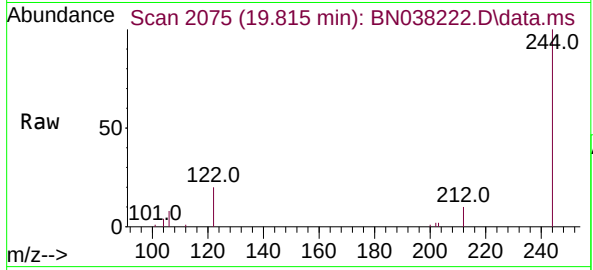




#31
Terphenyl-d14
Concen: 0.419 ng
RT: 19.815 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

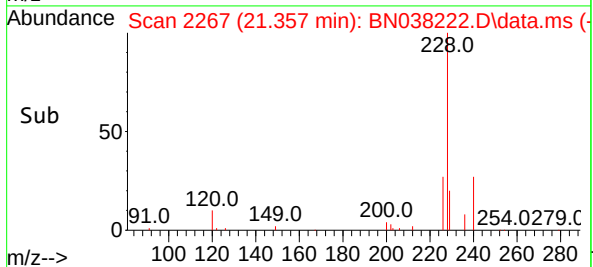
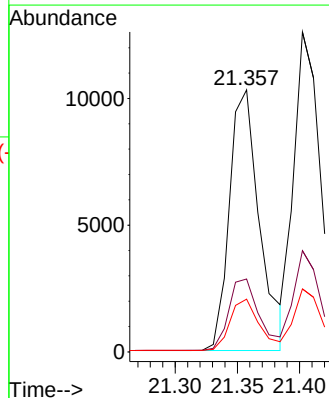
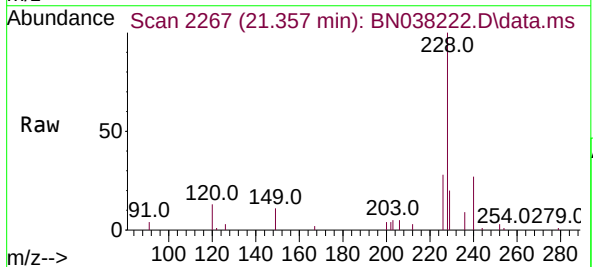
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

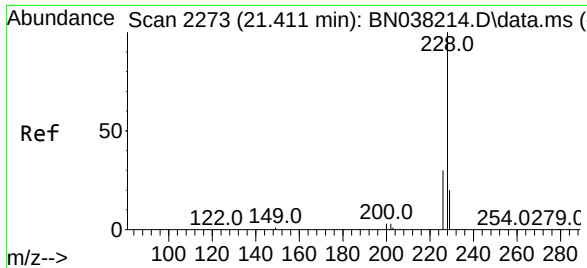
Tgt Ion:244 Resp: 11886
Ion Ratio Lower Upper
244 100
212 10.3 7.7 11.5
122 19.7 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.418 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:228 Resp: 17382
Ion Ratio Lower Upper
228 100
226 27.8 22.6 33.8
229 20.1 15.8 23.8





#33

Chrysene

Concen: 0.432 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

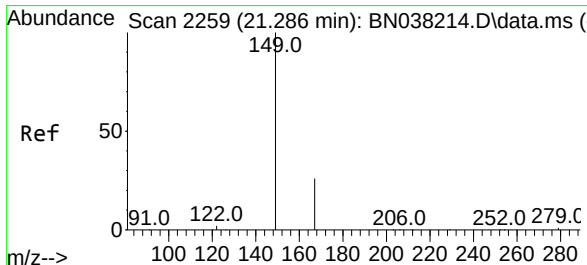
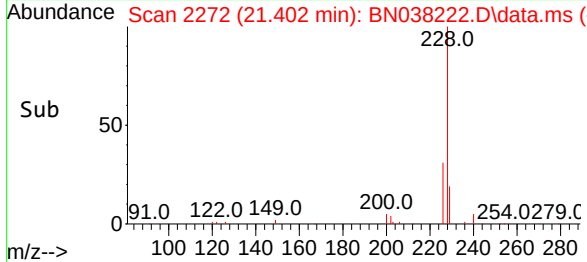
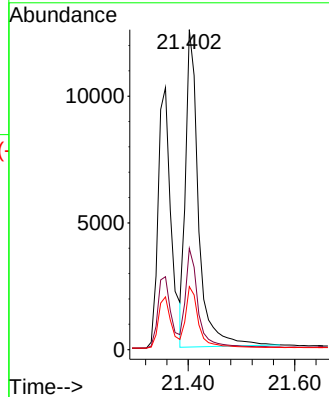
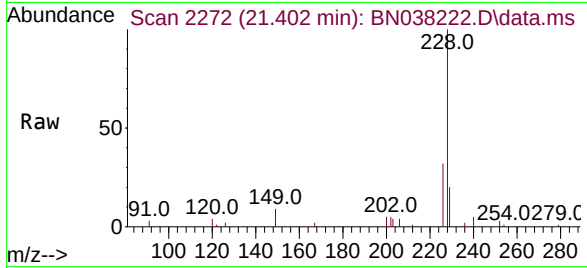
Tgt Ion:228 Resp: 21193

Ion Ratio Lower Upper

228 100

226 31.6 23.8 35.8

229 19.7 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.474 ng

RT: 21.286 min Scan# 2259

Delta R.T. 0.000 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

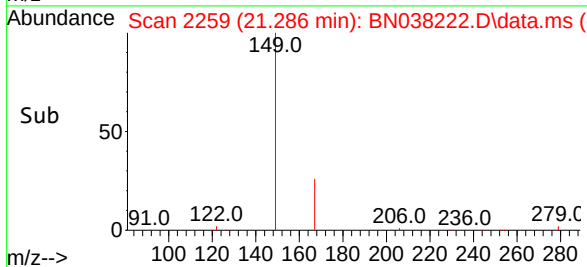
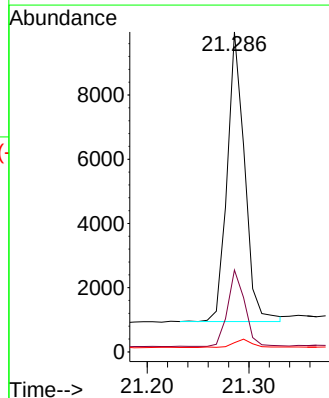
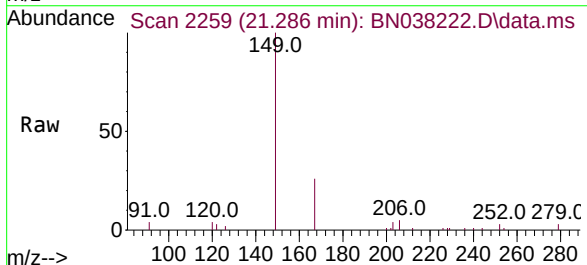
Tgt Ion:149 Resp: 10784

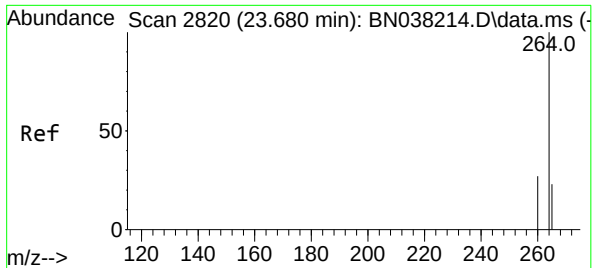
Ion Ratio Lower Upper

149 100

167 26.0 20.7 31.1

279 3.4 2.5 3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038222.D

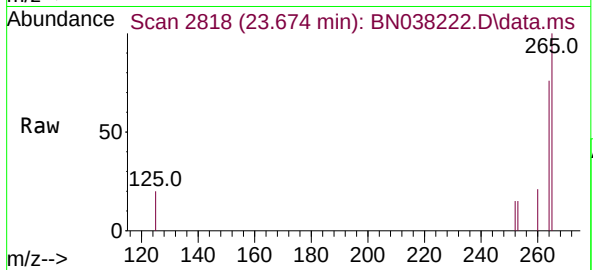
Acq: 01 Dec 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



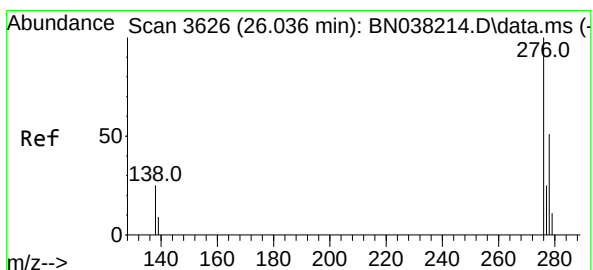
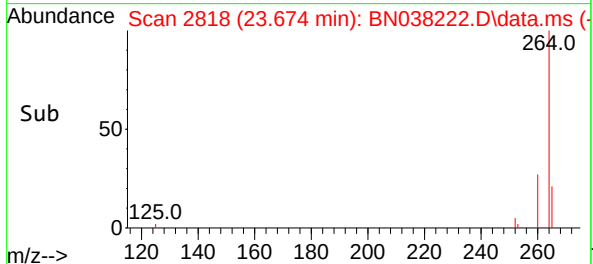
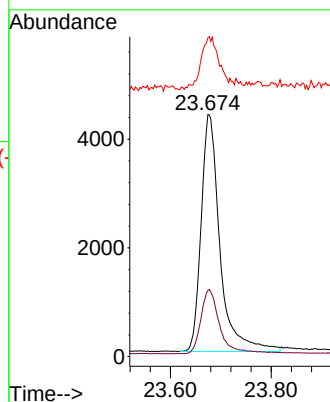
Tgt Ion:264 Resp: 11359

Ion Ratio Lower Upper

264 100

260 27.3 21.7 32.5

265 131.7 98.0 147.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.348 ng

RT: 26.034 min Scan# 3625

Delta R.T. -0.003 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

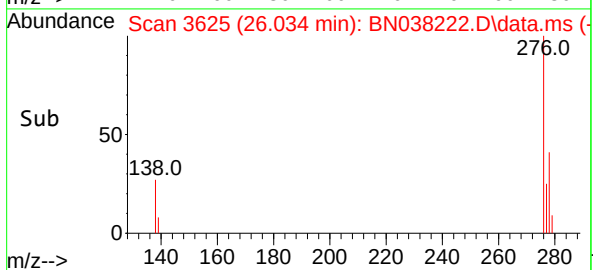
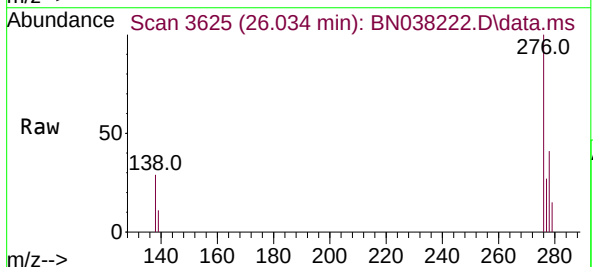
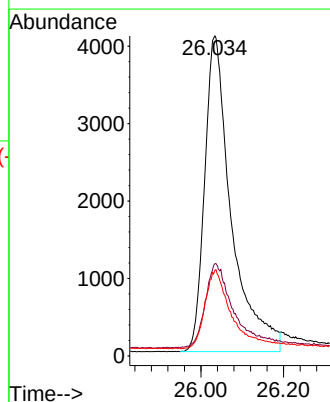
Tgt Ion:276 Resp: 18289

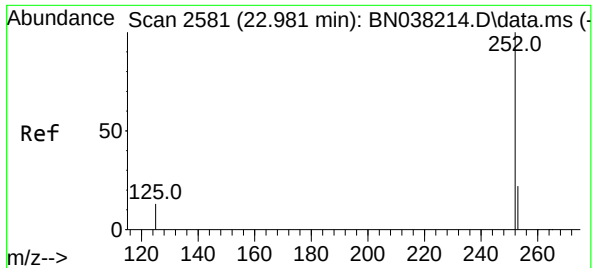
Ion Ratio Lower Upper

276 100

138 28.4 21.4 32.2

277 24.7 19.1 28.7

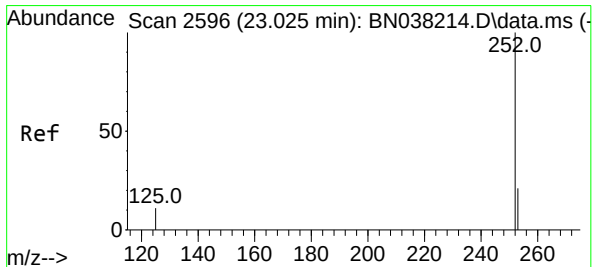
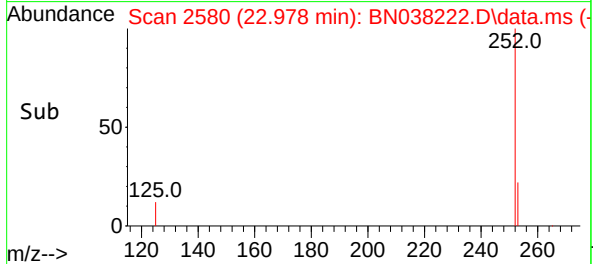
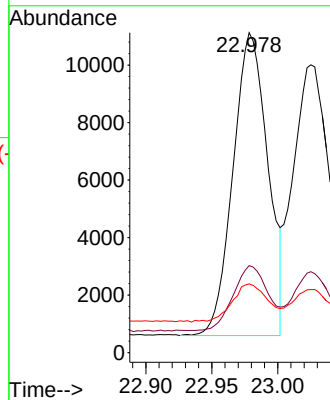
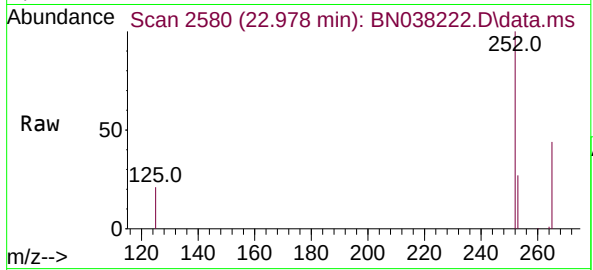




#37
Benzo(b)fluoranthene
Concen: 0.414 ng
RT: 22.978 min Scan# 2580
Delta R.T. -0.003 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

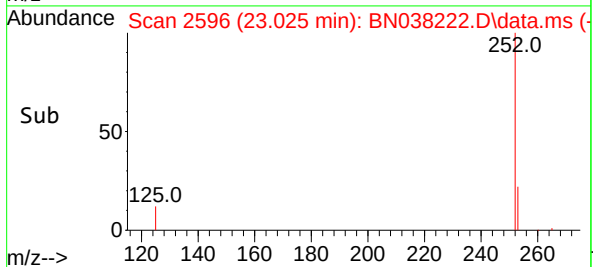
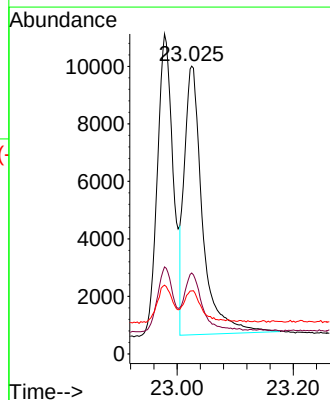
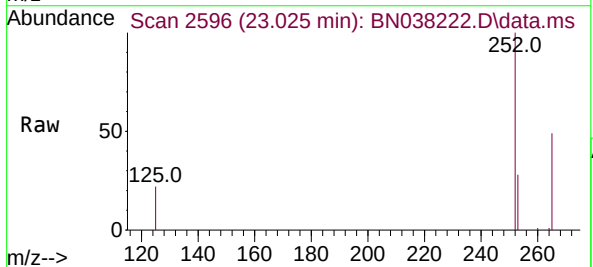
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

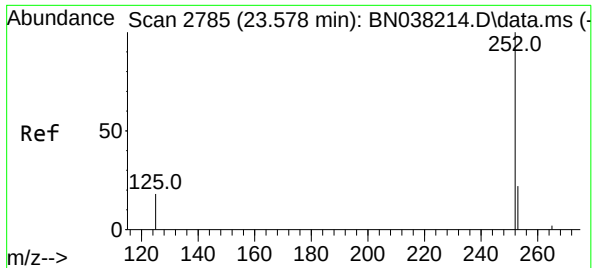
Tgt Ion:252 Resp: 19304
Ion Ratio Lower Upper
252 100
253 27.2 22.2 33.4
125 21.5 18.0 27.0



#38
Benzo(k)fluoranthene
Concen: 0.419 ng
RT: 23.025 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BN038222.D
Acq: 01 Dec 2025 10:23

Tgt Ion:252 Resp: 20292
Ion Ratio Lower Upper
252 100
253 28.1 22.4 33.6
125 21.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

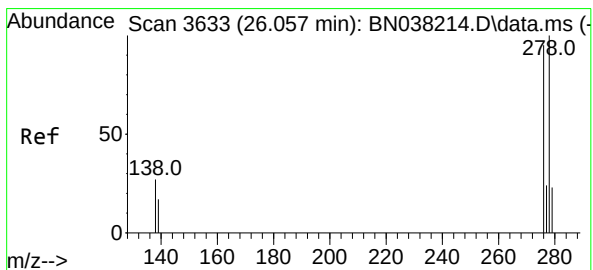
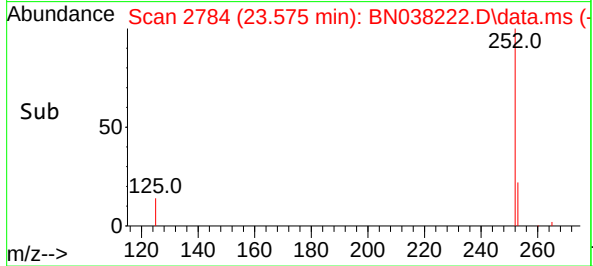
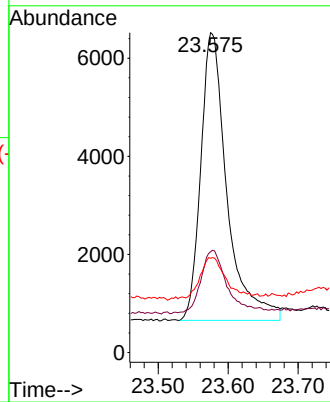
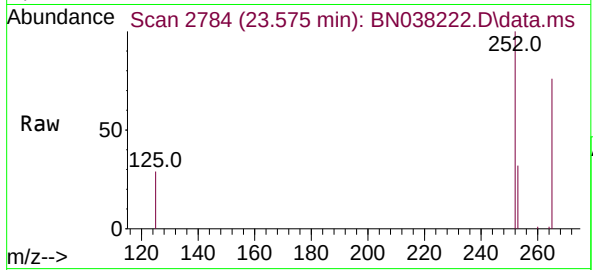
Tgt Ion:252 Resp: 15267

Ion Ratio Lower Upper

252 100

253 31.5 25.3 37.9

125 29.5 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.324 ng

RT: 26.057 min Scan# 3633

Delta R.T. 0.000 min

Lab File: BN038222.D

Acq: 01 Dec 2025 10:23

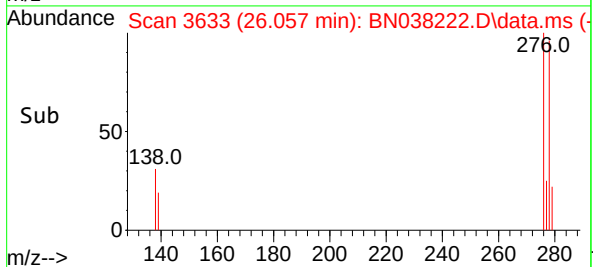
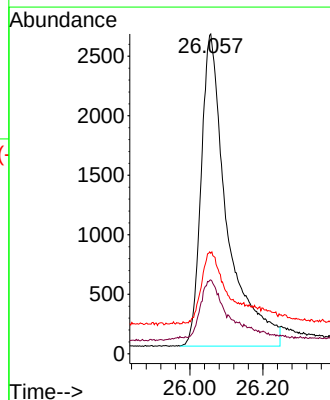
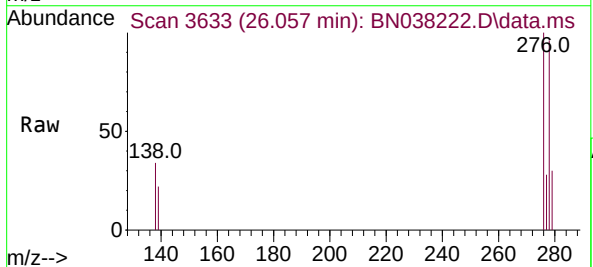
Tgt Ion:278 Resp: 12904

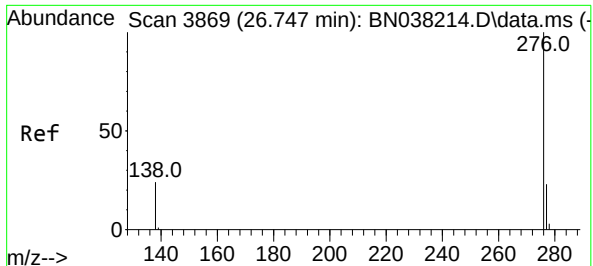
Ion Ratio Lower Upper

278 100

139 23.1 17.6 26.4

279 31.4 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.400 ng

RT: 26.747 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN038222.D

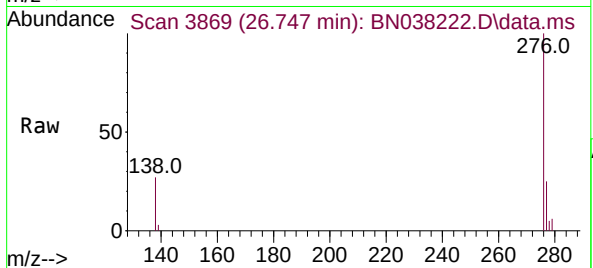
Acq: 01 Dec 2025 10:23

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



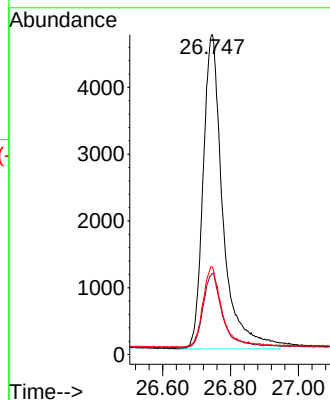
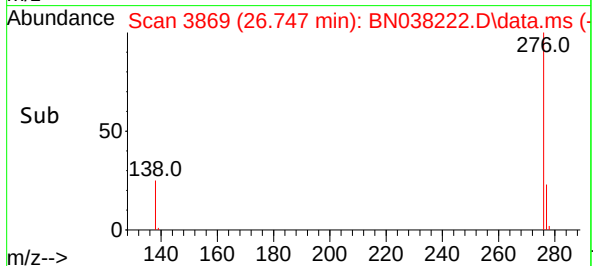
Tgt Ion:276 Resp: 19028

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 27.3 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038222.D
 Acq On : 01 Dec 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 10:47:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
2	1,4-Dioxane	0.421	0.434	-3.1	95	0.00
3	n-Nitrosodimethylamine	0.520	0.540	-3.8	98	0.00
4 S	2-Fluorophenol	0.935	0.918	1.8	91	0.00
5 S	Phenol-d6	1.168	1.147	1.8	93	0.00
6	bis(2-Chloroethyl)ether	1.118	1.183	-5.8	98	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	96	-0.01
8 S	Nitrobenzene-d5	0.320	0.313	2.2	97	0.00
9	Naphthalene	1.111	1.175	-5.8	98	0.00
10	Hexachlorobutadiene	0.189	0.206	-9.0	99	0.00
11 SURR	2-Methylnaphthalene-d10	0.568	0.586	-3.2	96	0.00
12	2-Methylnaphthalene	0.731	0.767	-4.9	97	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.126	0.135	-7.1	102	0.00
15 S	2-Fluorobiphenyl	1.545	1.642	-6.3	97	0.00
16	Acenaphthylene	1.789	1.856	-3.7	96	0.00
17	Acenaphthene	1.247	1.318	-5.7	95	-0.01
18	Fluorene	1.614	1.720	-6.6	97	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.042	0.032	23.8	125	0.00
21	4-Bromophenyl-phenylether	0.277	0.279	-0.7	100	0.00
22	Hexachlorobenzene	0.341	0.358	-5.0	102	0.00
23	Atrazine	0.177	0.162	8.5	95	0.00
24	Pentachlorophenol	0.093	0.095	-2.2	115	0.00
25	Phenanthrene	1.256	1.292	-2.9	101	0.00
26	Anthracene	1.071	1.084	-1.2	104	0.00
27 SURR	Fluoranthene-d10	0.868	0.913	-5.2	105	0.00
28	Fluoranthene	1.210	1.315	-8.7	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	96	0.00
30	Pyrene	1.998	2.356	-17.9	108	0.00
31 S	Terphenyl-d14	0.924	0.969	-4.9	97	0.00
32	Benzo(a)anthracene	1.355	1.417	-4.6	99	0.00
33	Chrysene	1.599	1.727	-8.0	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.742	0.879	-18.5	105	0.00
35 I	Perylene-d12	1.000	1.000	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	1.851	1.610	13.0	82	0.00
37	Benzo(b)fluoranthene	1.642	1.699	-3.5	95	0.00
38	Benzo(k)fluoranthene	1.707	1.786	-4.6	97	0.00
39 C	Benzo(a)pyrene	1.376	1.344	2.3	92	0.00
40	Dibenzo(a,h)anthracene	1.401	1.136	18.9	78	0.00
41	Benzo(g,h,i)perylene	1.674	1.675	-0.1	92	0.00

(#) = Out of Range

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

Instrument :

BNA_N

LabSampleId :

SSTDCCC0.4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038222.D
 Acq On : 01 Dec 2025 10:23
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 10:47:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	98	0.00
2	1,4-Dioxane	0.400	0.412	-3.0	95	0.00
3	n-Nitrosodimethylamine	0.400	0.416	-4.0	98	0.00
4 S	2-Fluorophenol	0.400	0.393	1.8	91	0.00
5 S	Phenol-d6	0.400	0.393	1.8	93	0.00
6	bis(2-Chloroethyl)ether	0.400	0.423	-5.7	98	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	96	-0.01
8 S	Nitrobenzene-d5	0.400	0.391	2.3	97	0.00
9	Naphthalene	0.400	0.423	-5.7	98	0.00
10	Hexachlorobutadiene	0.400	0.437	-9.2	99	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.413	-3.2	96	0.00
12	2-Methylnaphthalene	0.400	0.420	-5.0	97	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	94	0.00
14 S	2,4,6-Tribromophenol	0.400	0.429	-7.2	102	0.00
15 S	2-Fluorobiphenyl	0.400	0.425	-6.2	97	0.00
16	Acenaphthylene	0.400	0.415	-3.7	96	0.00
17	Acenaphthene	0.400	0.423	-5.7	95	-0.01
18	Fluorene	0.400	0.426	-6.5	97	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.465	-16.3	125	0.00
21	4-Bromophenyl-phenylether	0.400	0.402	-0.5	100	0.00
22	Hexachlorobenzene	0.400	0.420	-5.0	102	0.00
23	Atrazine	0.400	0.366	8.5	95	0.00
24	Pentachlorophenol	0.400	0.407	-1.7	115	0.00
25	Phenanthrene	0.400	0.412	-3.0	101	0.00
26	Anthracene	0.400	0.405	-1.3	104	0.00
27 SURR	Fluoranthene-d10	0.400	0.421	-5.2	105	0.00
28	Fluoranthene	0.400	0.435	-8.7	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	96	0.00
30	Pyrene	0.400	0.472	-18.0	108	0.00
31 S	Terphenyl-d14	0.400	0.419	-4.7	97	0.00
32	Benzo(a)anthracene	0.400	0.418	-4.5	99	0.00
33	Chrysene	0.400	0.432	-8.0	100	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.474	-18.5	105	0.00
35 I	Perylene-d12	0.400	0.400	0.0	95	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.348	13.0	82	0.00
37	Benzo(b)fluoranthene	0.400	0.414	-3.5	95	0.00
38	Benzo(k)fluoranthene	0.400	0.419	-4.7	97	0.00
39 C	Benzo(a)pyrene	0.400	0.391	2.3	92	0.00
40	Dibenzo(a,h)anthracene	0.400	0.324	19.0	78	0.00
41	Benzo(g,h,i)perylene	0.400	0.400	0.0	92	0.00

(#) = Out of Range

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

Instrument :

BNA_N

LabSampleId :

SSTDCCC0.4



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ALLI03
 Lab Code: ACE SDG No.: Q3483
 Instrument ID: BNA_N Calibration Date/Time: 12/01/2025 17:51
 Lab File ID: BN038230.D Init. Calib. Date(s): 11/26/2025 11/27/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 20:35 00:13
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.591		4.0	20.0
Fluoranthene-d10	0.868	0.851		-2.0	20.0
2-Fluorophenol	0.935	0.944		1.0	20.0
Phenol-d6	1.168	1.204		3.1	20.0
Nitrobenzene-d5	0.320	0.317		-0.9	20.0
Naphthalene	1.111	1.179		6.1	20.0
2-Methylnaphthalene	0.731	0.766		4.8	20.0
2-Fluorobiphenyl	1.545	1.656		7.2	20.0
Acenaphthylene	1.789	1.881		5.1	20.0
Acenaphthene	1.247	1.321		5.9	20.0
Fluorene	1.614	1.678		4.0	20.0
2,4,6-Tribromophenol	0.126	0.139		10.3	20.0
Phenanthrene	1.256	1.306		4.0	20.0
Anthracene	1.071	1.109		3.5	20.0
Fluoranthene	1.210	1.227		1.4	20.0
Pyrene	1.998	2.163		8.3	20.0
Terphenyl-d14	0.924	0.961		4.0	20.0
Benzo(a)anthracene	1.355	1.448		6.9	20.0
Chrysene	1.599	1.760		10.1	20.0
Benzo(b)fluoranthene	1.642	1.657		0.9	20.0
Benzo(k)fluoranthene	1.707	1.670		-2.2	20.0
Benzo(a)pyrene	1.376	1.395		1.4	20.0
Indeno(1,2,3-cd)pyrene	1.851	1.968		6.3	20.0
Dibenzo(a,h)anthracene	1.401	1.499		7.0	20.0
Benzo(g,h,i)perylene	1.674	1.748		4.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038230.D
 Acq On : 01 Dec 2025 17:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

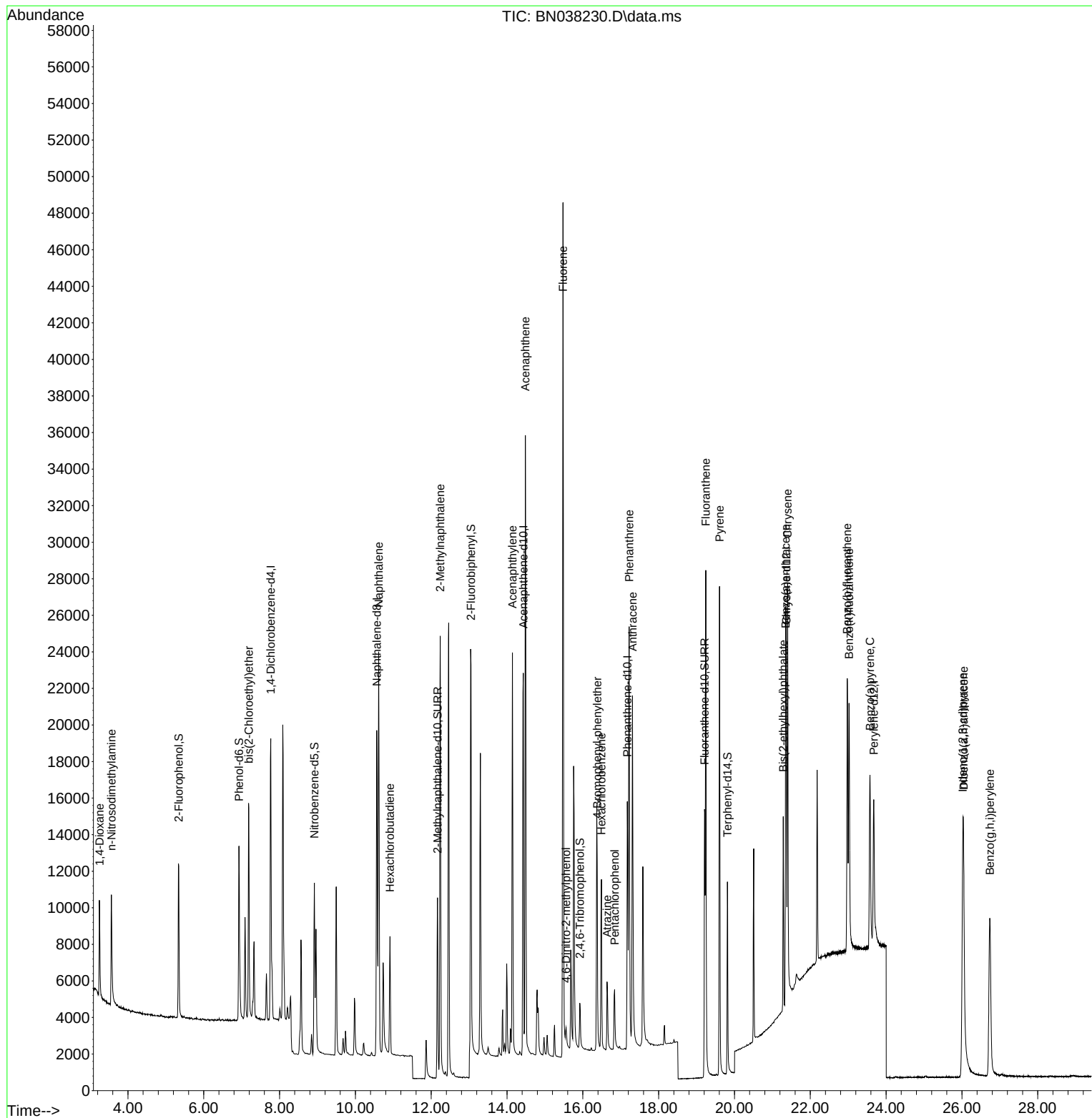
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8054	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	24560	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	13292	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	21033	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	11703	0.400	ng	0.00
35) Perylene-d12	23.674	264	11756	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	7599	0.404	ng	0.00
5) Phenol-d6	6.930	99	9694	0.412	ng	0.00
8) Nitrobenzene-d5	8.918	82	7786	0.396	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	14508	0.416	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1841	0.440	ng	-0.01
15) 2-Fluorobiphenyl	13.051	172	22013	0.429	ng	0.00
27) Fluoranthene-d10	19.211	212	17901	0.392	ng	0.00
31) Terphenyl-d14	19.815	244	11251	0.416	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	3634	0.428	ng	99
3) n-Nitrosodimethylamine	3.564	42	4349	0.416	ng	98
6) bis(2-Chloroethyl)ether	7.190	93	9627	0.428	ng	98
9) Naphthalene	10.616	128	28944	0.424	ng	99
10) Hexachlorobutadiene	10.914	225	5122	0.442	ng	# 100
12) 2-Methylnaphthalene	12.238	142	18811	0.419	ng	98
16) Acenaphthylene	14.142	152	24999	0.421	ng	99
17) Acenaphthene	14.484	154	17563	0.424	ng	100
18) Fluorene	15.478	166	22309	0.416	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	909	0.563	ng	# 49
21) 4-Bromophenyl-phenylether	16.379	248	6262	0.430	ng	94
22) Hexachlorobenzene	16.491	284	7993	0.446	ng	100
23) Atrazine	16.640	200	3766	0.405	ng	# 93
24) Pentachlorophenol	16.838	266	2201	0.448	ng	97
25) Phenanthrene	17.223	178	27475	0.416	ng	99
26) Anthracene	17.310	178	23318	0.414	ng	99
28) Fluoranthene	19.243	202	25815	0.406	ng	99
30) Pyrene	19.606	202	25312	0.433	ng	100
32) Benzo(a)anthracene	21.348	228	16944	0.428	ng	100
33) Chrysene	21.402	228	20596	0.440	ng	97
34) Bis(2-ethylhexyl)phtha...	21.286	149	9347	0.431	ng	99
36) Indeno(1,2,3-cd)pyrene	26.022	276	23141	0.425	ng	97
37) Benzo(b)fluoranthene	22.975	252	19476	0.404	ng	98
38) Benzo(k)fluoranthene	23.022	252	19637	0.391	ng	99
39) Benzo(a)pyrene	23.575	252	16399	0.405	ng	97
40) Dibenzo(a,h)anthracene	26.042	278	17617	0.428	ng	97
41) Benzo(g,h,i)perylene	26.738	276	20554	0.418	ng	99

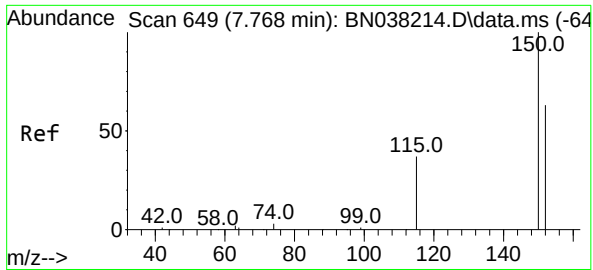
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038230.D
Acq On : 01 Dec 2025 17:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

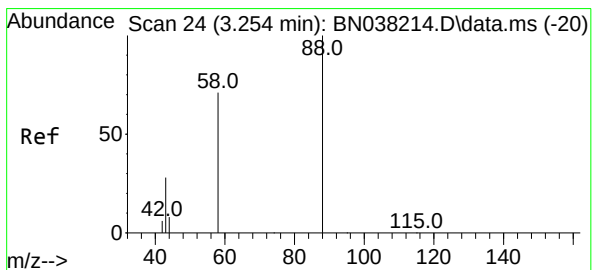
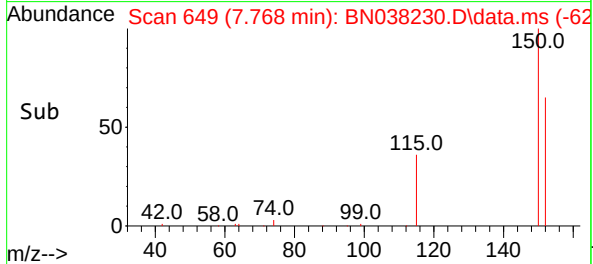
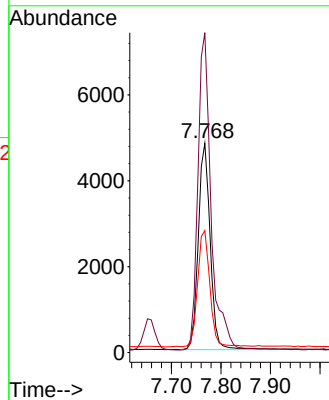
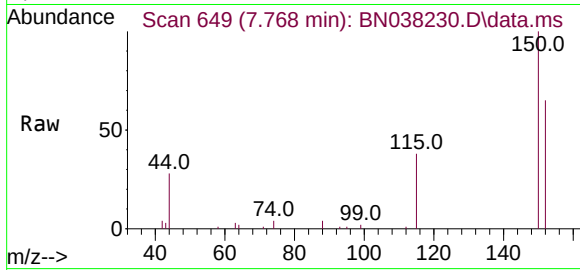




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.768 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN038230.D
 Acq: 01 Dec 2025 17:51

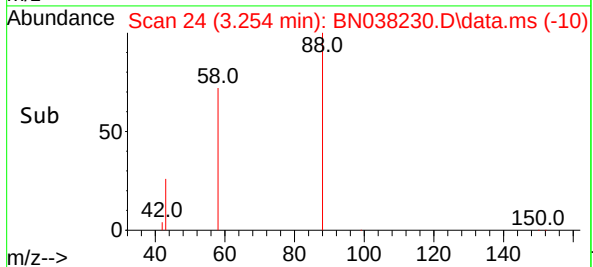
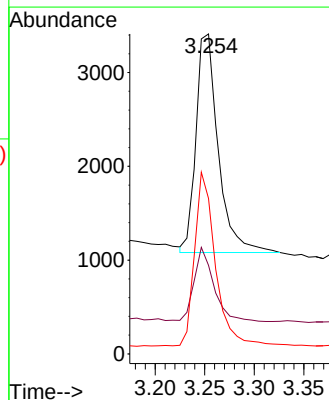
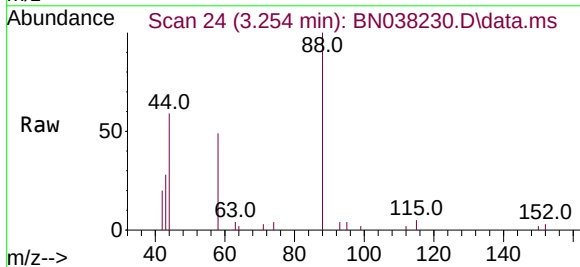
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

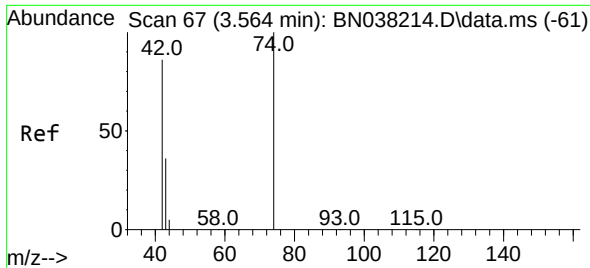
Tgt Ion:152 Resp: 8054
 Ion Ratio Lower Upper
 152 100
 150 152.8 125.3 187.9
 115 58.3 49.0 73.4



#2
 1,4-Dioxane
 Concen: 0.428 ng
 RT: 3.254 min Scan# 24
 Delta R.T. 0.000 min
 Lab File: BN038230.D
 Acq: 01 Dec 2025 17:51

Tgt Ion: 88 Resp: 3634
 Ion Ratio Lower Upper
 88 100
 43 30.2 24.8 37.2
 58 75.3 61.1 91.7

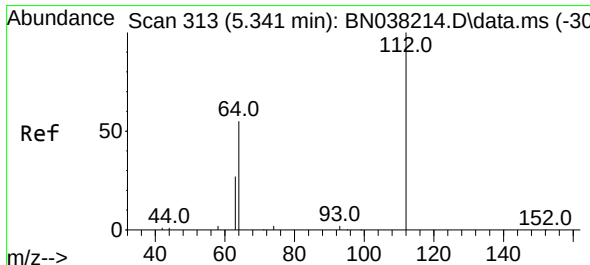
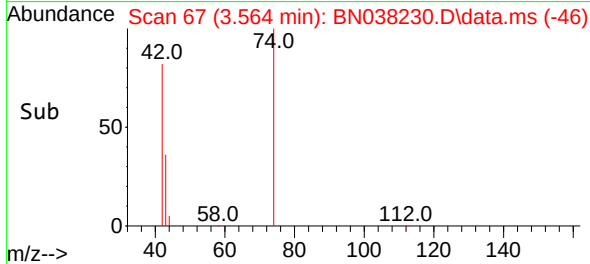
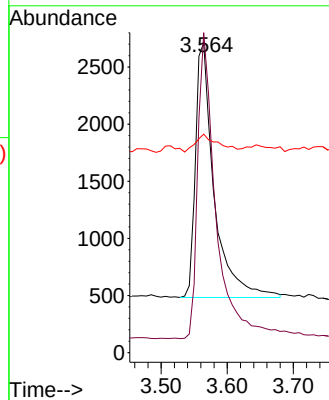
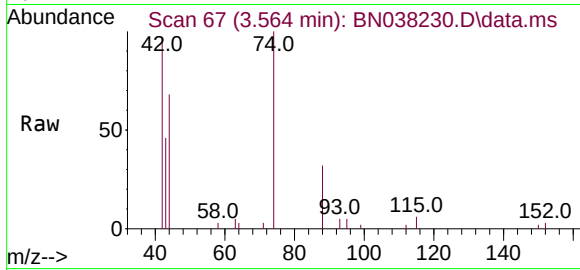




#3
n-Nitrosodimethylamine
Concen: 0.416 ng
RT: 3.564 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

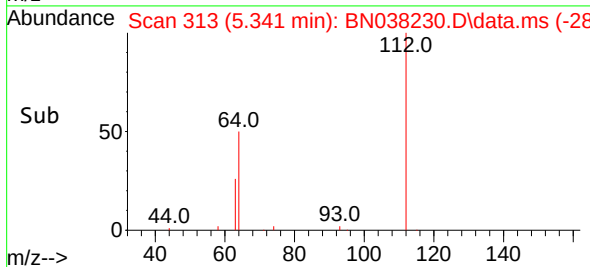
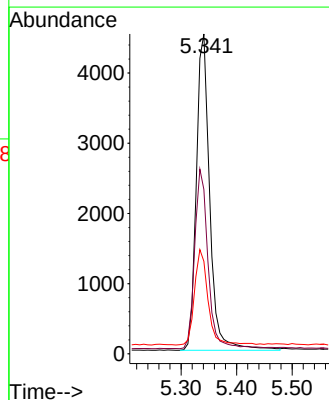
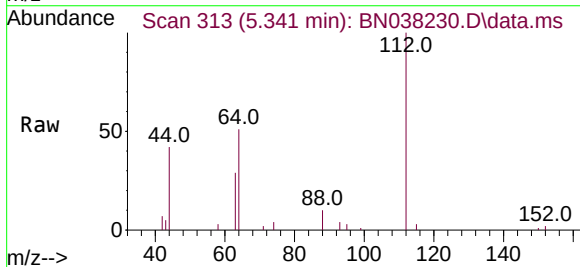
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

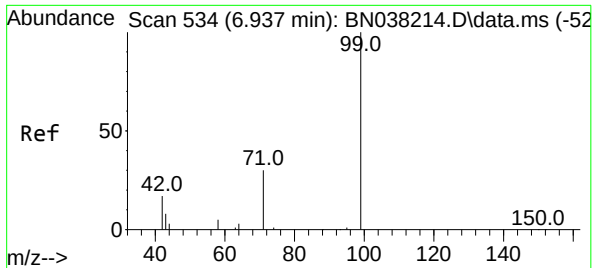
Tgt Ion: 42 Resp: 4349
Ion Ratio Lower Upper
42 100
74 118.4 96.2 144.2
44 8.3 8.0 12.0



#4
2-Fluorophenol
Concen: 0.404 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion: 112 Resp: 7599
Ion Ratio Lower Upper
112 100
64 56.4 45.0 67.4
63 30.4 23.2 34.8

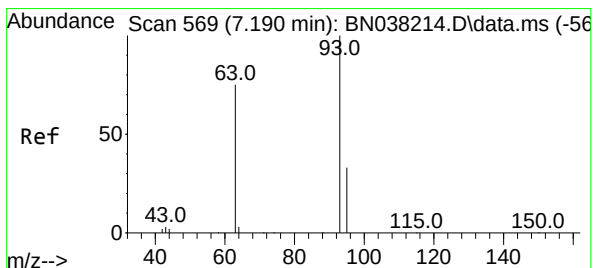
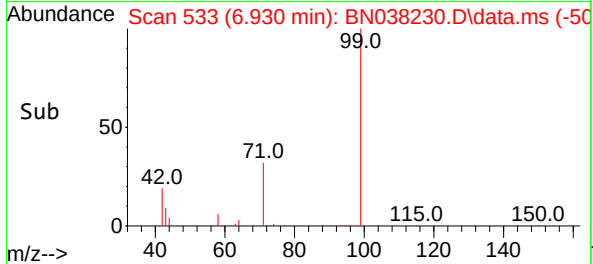
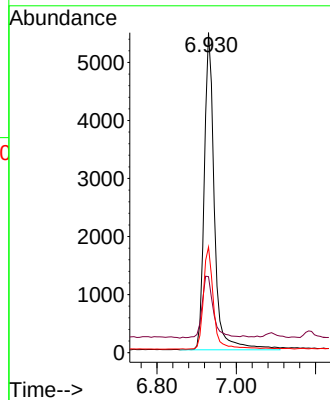
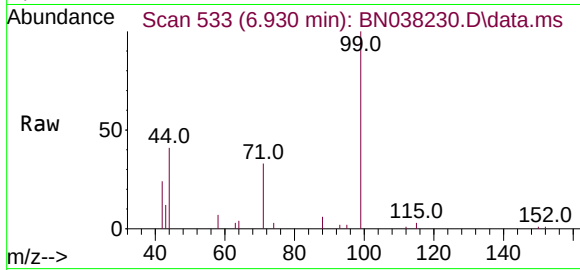




#5
Phenol-d6
Concen: 0.412 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

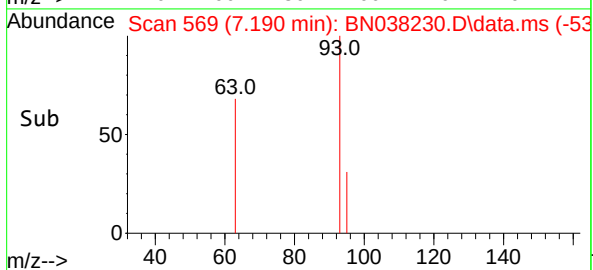
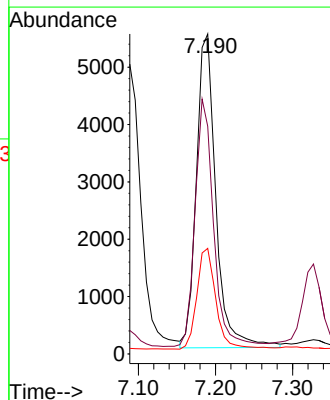
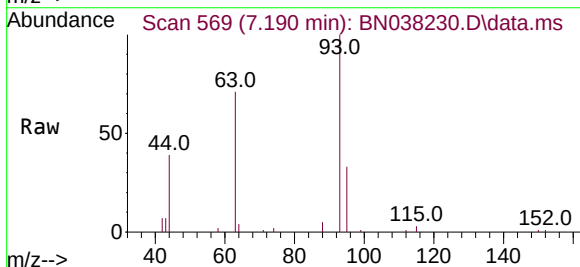
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

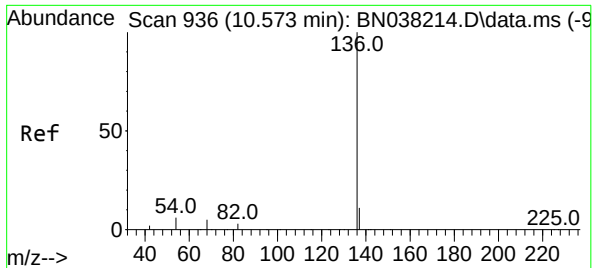
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.0	17.0	25.6
71	31.9	25.4	38.2



#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion	Ratio	Lower	Upper
93	100		
63	74.5	58.1	87.1
95	31.3	25.1	37.7

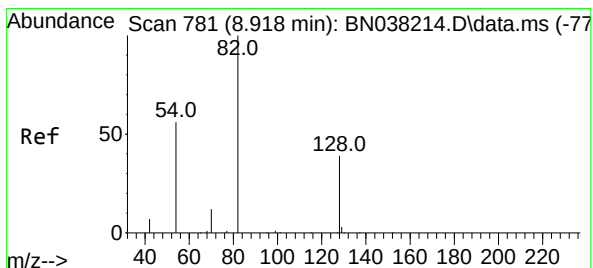
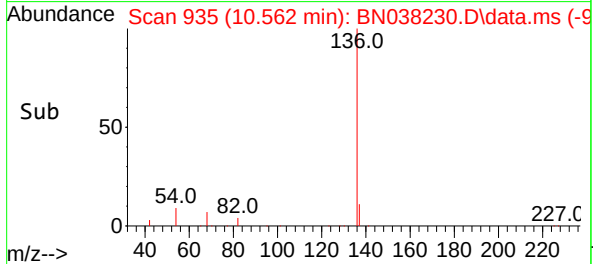
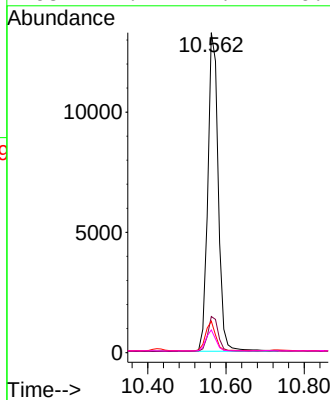
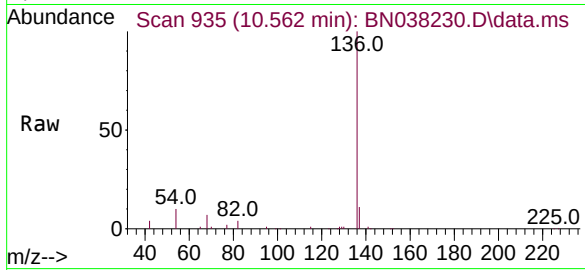




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

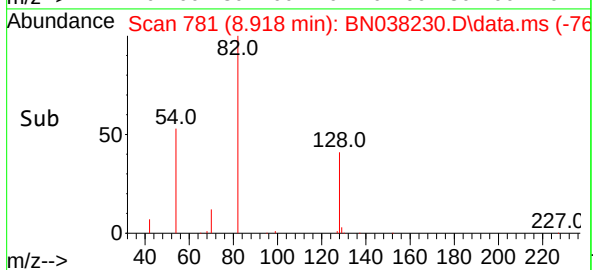
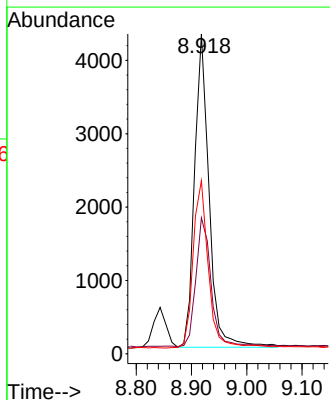
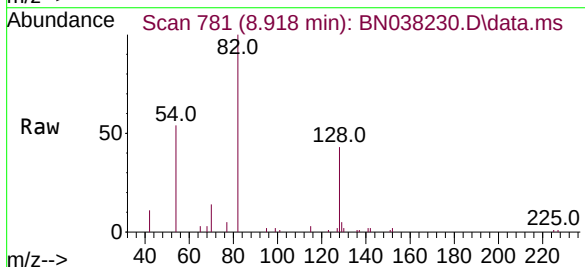
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

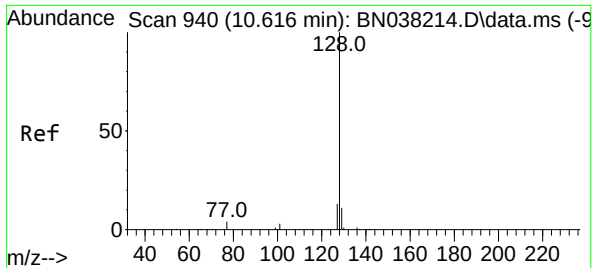
Tgt Ion:	136	Resp:	24560
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.9	13.3
54	9.8	5.4	8.0#
68	7.1	4.1	6.1#



#8
Nitrobenzene-d5
Concen: 0.396 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:	82	Resp:	7786
Ion Ratio	Lower	Upper	
82	100		
128	42.5	32.6	48.8
54	54.1	45.4	68.0

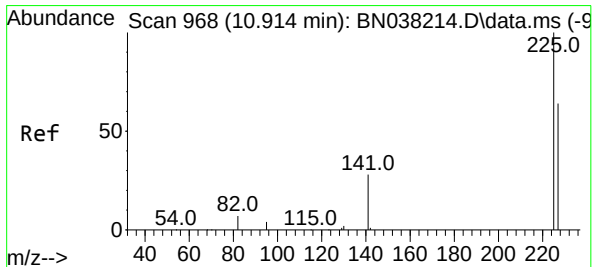
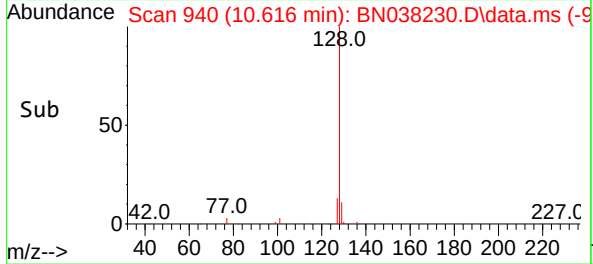
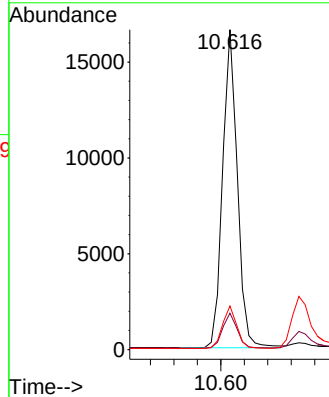
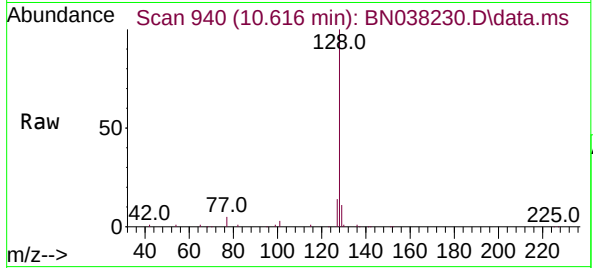




#9
Naphthalene
Concen: 0.424 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

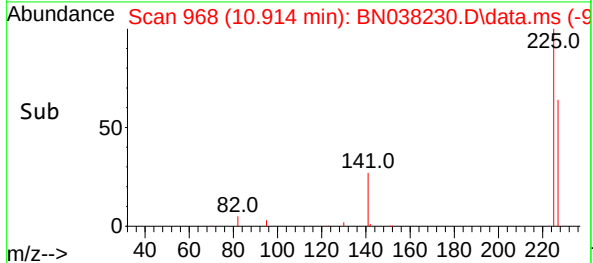
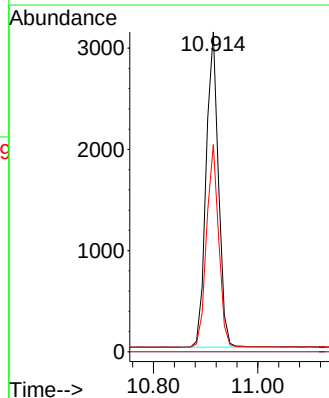
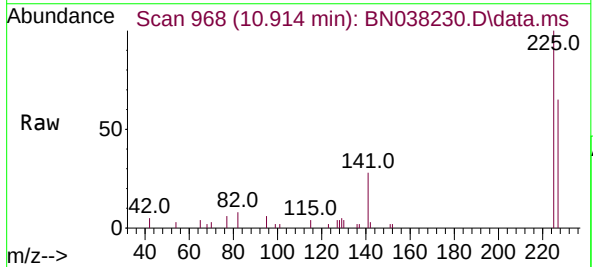
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

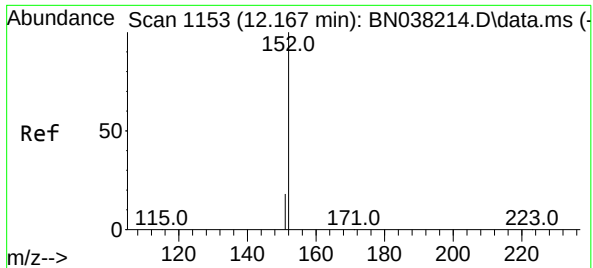
Tgt Ion:	128	Resp:	28944
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.1	13.7
127	13.6	10.6	16.0



#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.914 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:	225	Resp:	5122
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.0	50.5	75.7

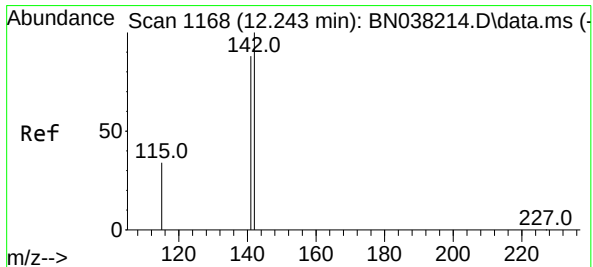
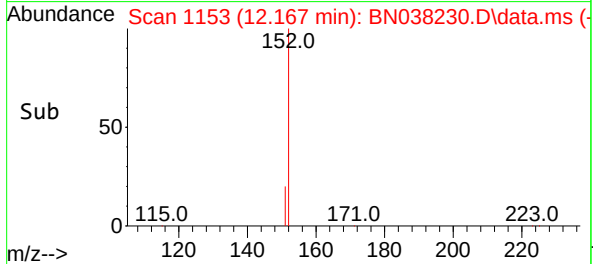
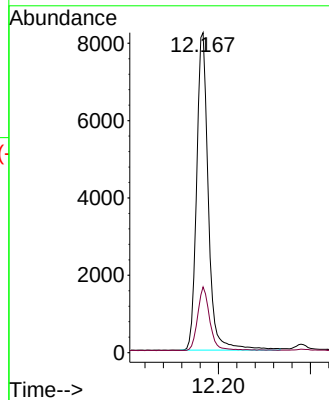
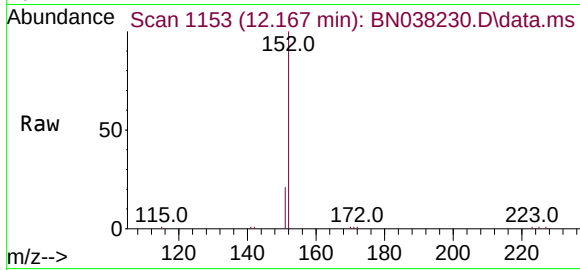




#11
2-Methylnaphthalene-d10
Concen: 0.416 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

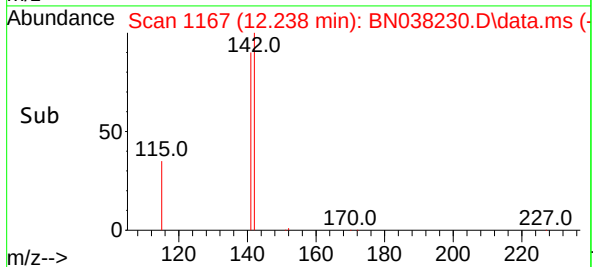
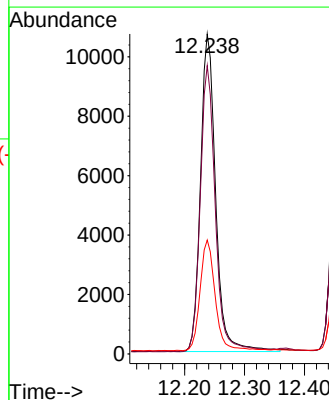
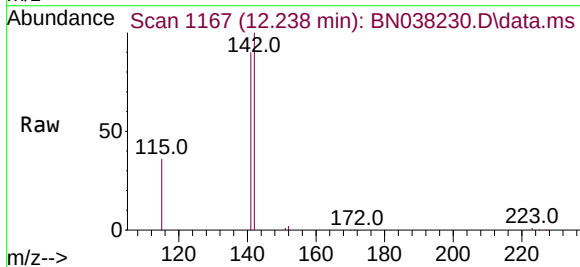
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

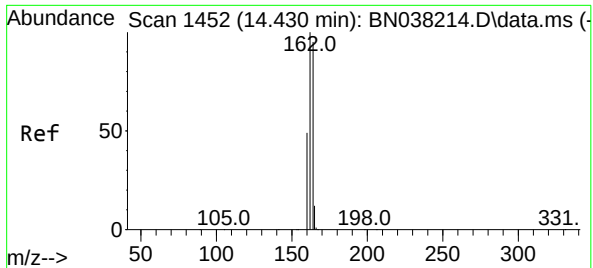
Tgt Ion:152 Resp: 14508
Ion Ratio Lower Upper
152 100
151 20.7 16.7 25.1



#12
2-Methylnaphthalene
Concen: 0.419 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:142 Resp: 18811
Ion Ratio Lower Upper
142 100
141 90.1 70.9 106.3
115 35.6 27.7 41.5

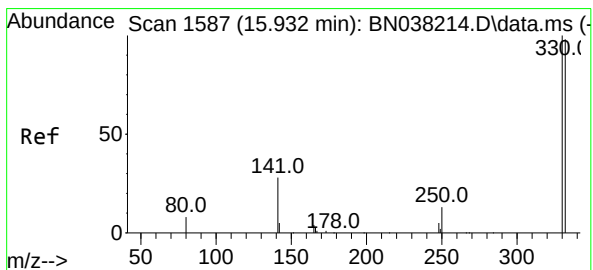
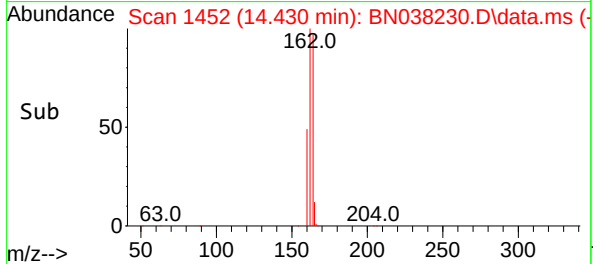
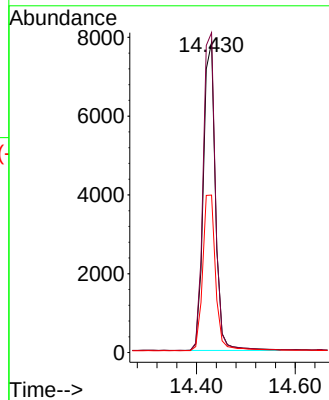
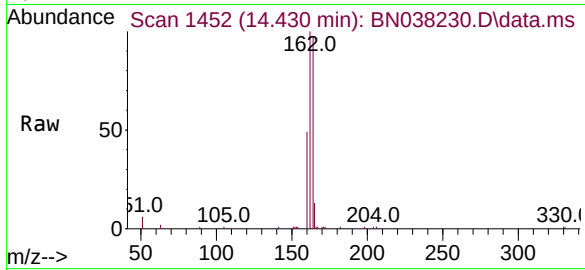




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

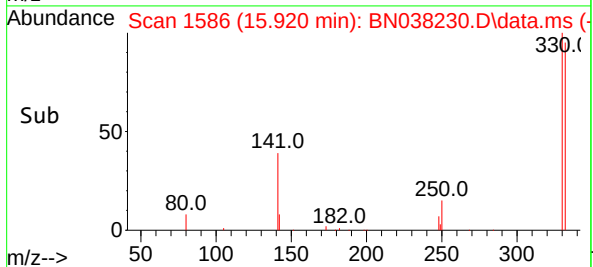
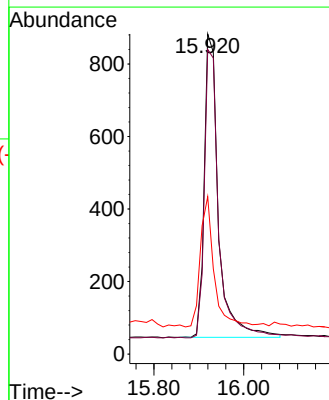
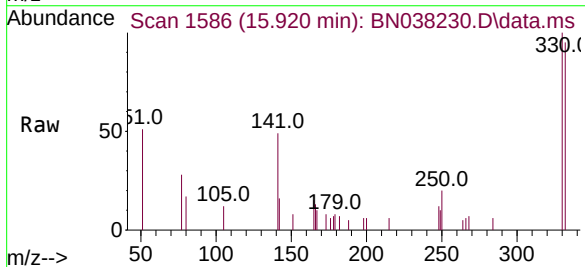
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

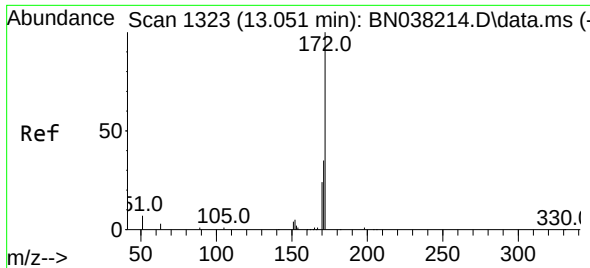
Tgt Ion:164 Resp: 13292
Ion Ratio Lower Upper
164 100
162 103.2 83.8 125.8
160 50.8 41.6 62.4



#14
2,4,6-Tribromophenol
Concen: 0.440 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:330 Resp: 1841
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.6
141 41.4 33.0 49.4

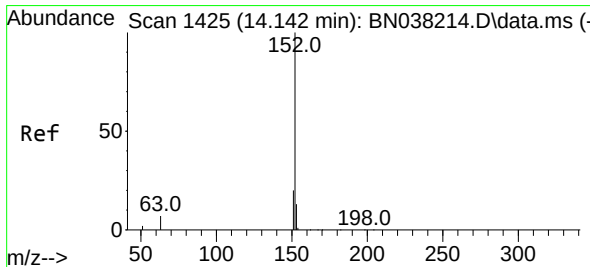
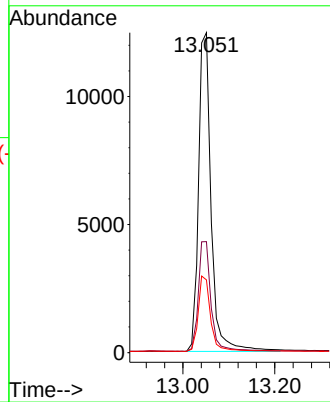
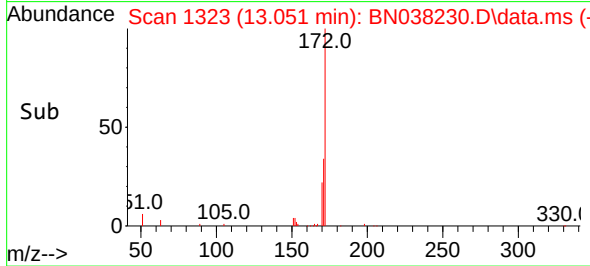
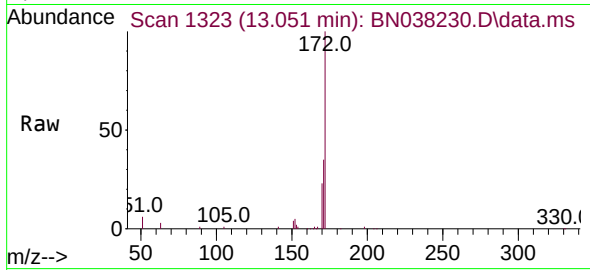




#15
2-Fluorobiphenyl
Concen: 0.429 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

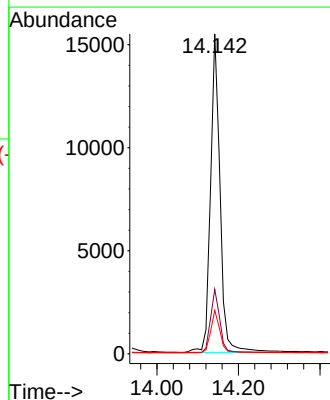
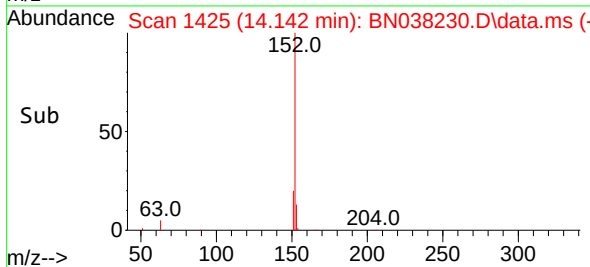
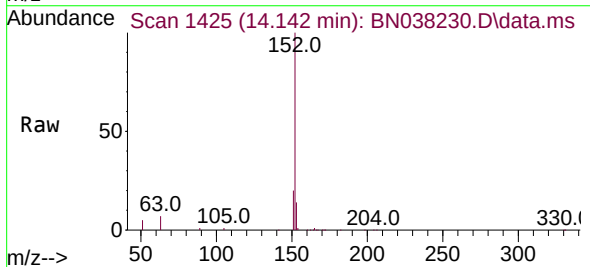
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

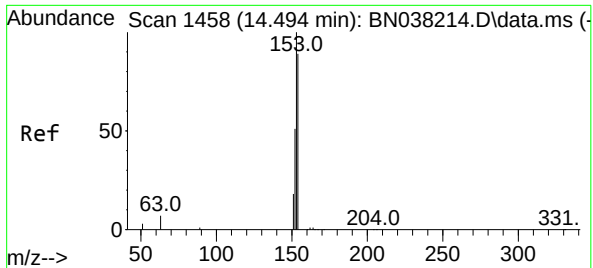
Tgt Ion:	172	Resp:	22013
Ion Ratio	Lower	Upper	
172	100		
171	34.7	28.1	42.1
170	22.7	19.1	28.7



#16
Acenaphthylene
Concen: 0.421 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:	152	Resp:	24999
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.6	23.4
153	13.0	10.6	15.8

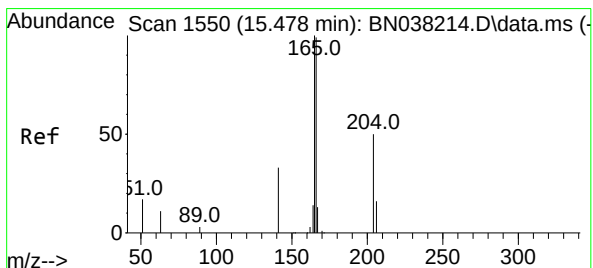
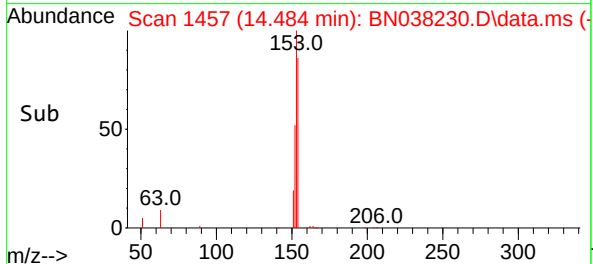
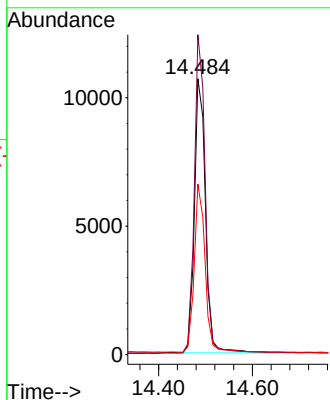
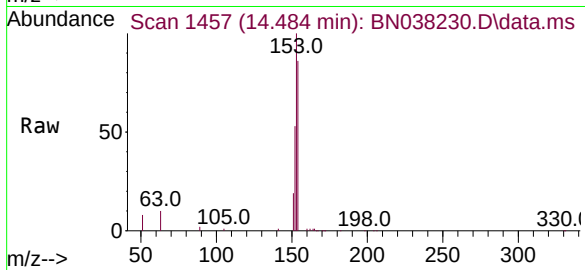




#17
Acenaphthene
Concen: 0.424 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

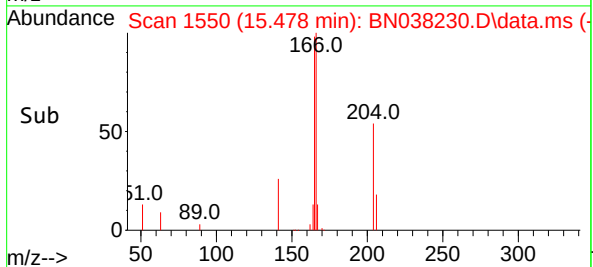
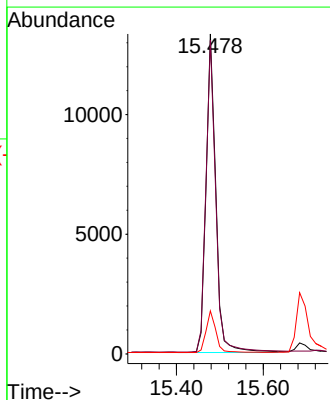
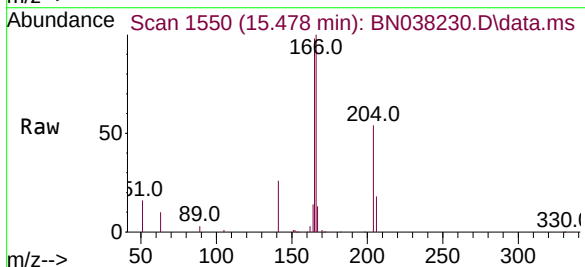
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

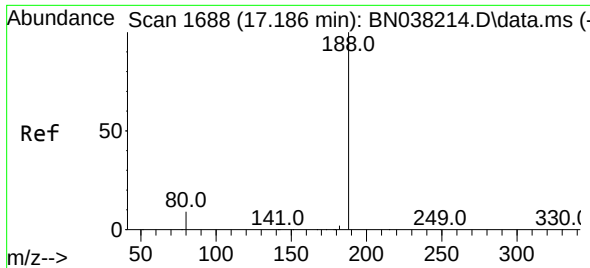
Tgt Ion:154 Resp: 17563
Ion Ratio Lower Upper
154 100
153 114.3 91.1 136.7
152 60.2 48.2 72.2



#18
Fluorene
Concen: 0.416 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:166 Resp: 22309
Ion Ratio Lower Upper
166 100
165 99.2 78.7 118.1
167 13.0 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

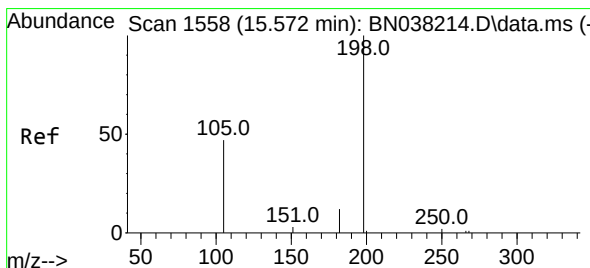
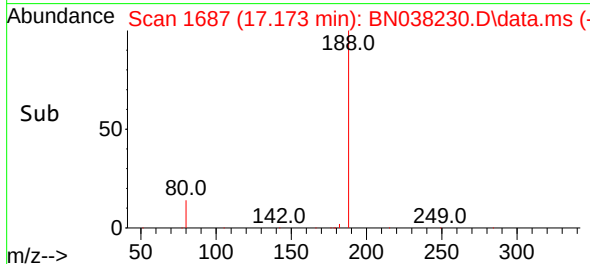
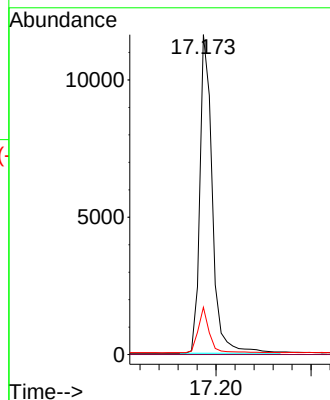
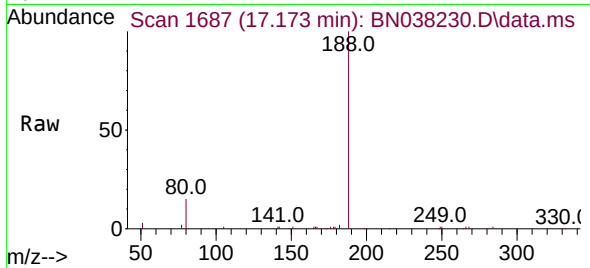
Tgt Ion:188 Resp: 21033

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.8 7.7 11.5#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.563 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

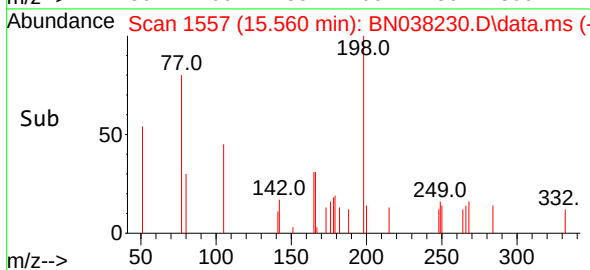
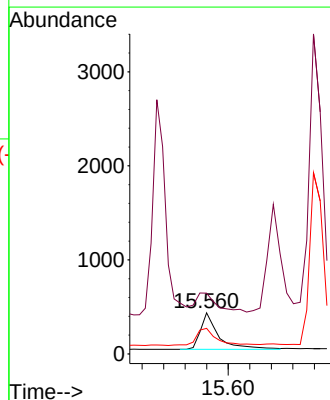
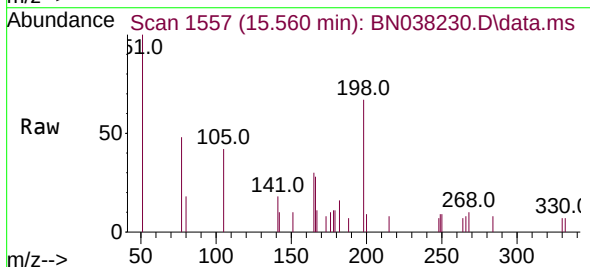
Tgt Ion:198 Resp: 909

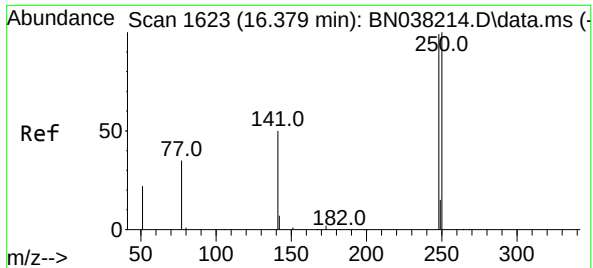
Ion Ratio Lower Upper

198 100

51 148.2 205.1 307.7#

105 62.4 61.6 92.4

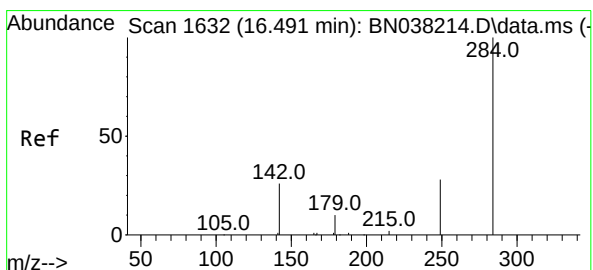
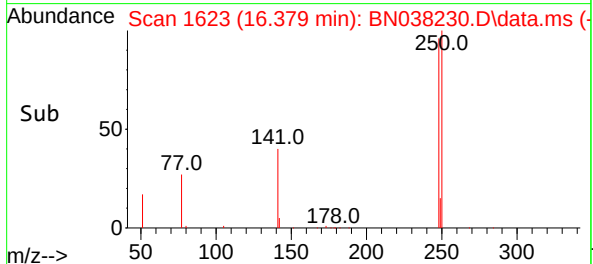
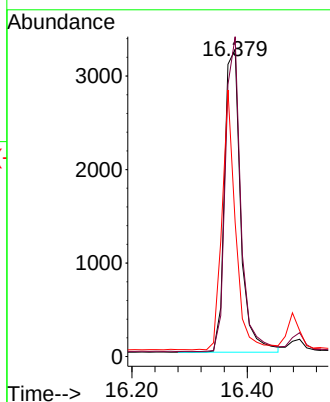
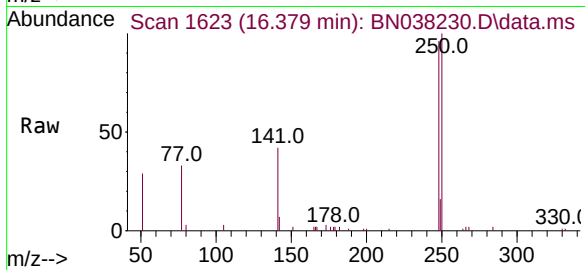




#21
4-Bromophenyl-phenylether
Concen: 0.430 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

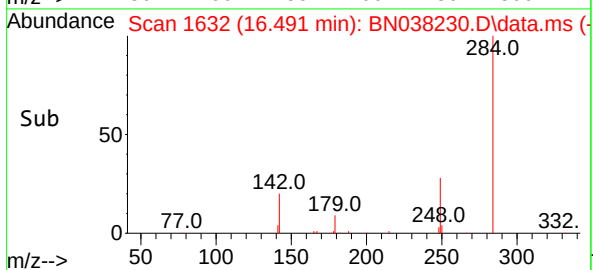
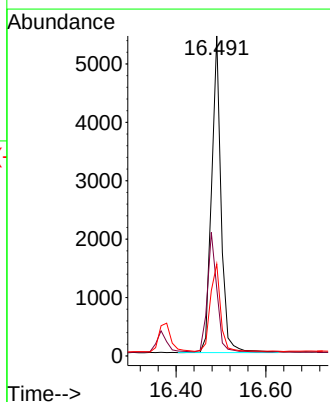
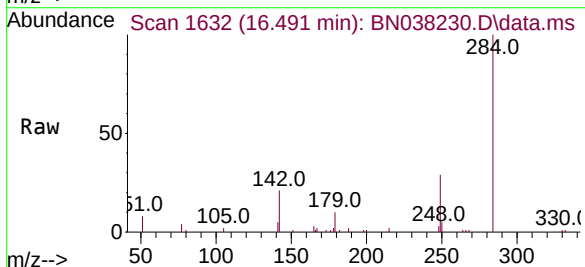
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

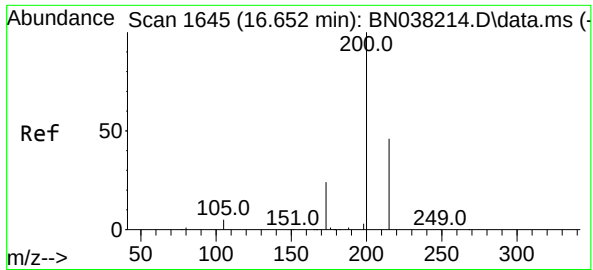
Tgt Ion:248 Resp: 6262
Ion Ratio Lower Upper
248 100
250 104.1 80.8 121.2
141 43.6 41.0 61.6



#22
Hexachlorobenzene
Concen: 0.446 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:284 Resp: 7993
Ion Ratio Lower Upper
284 100
142 38.0 30.5 45.7
249 29.9 23.8 35.8

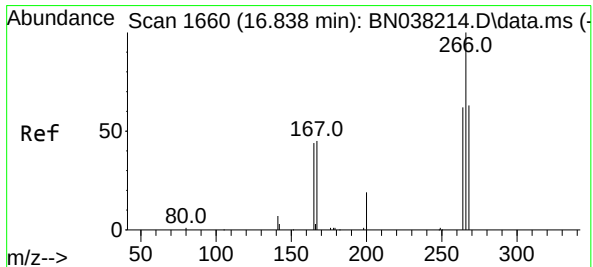
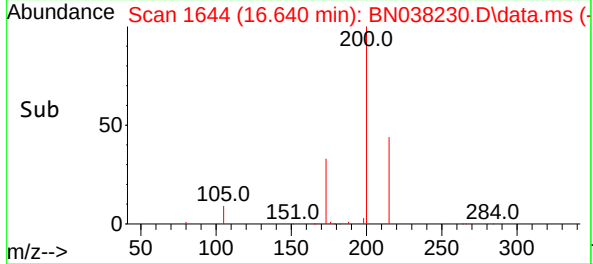
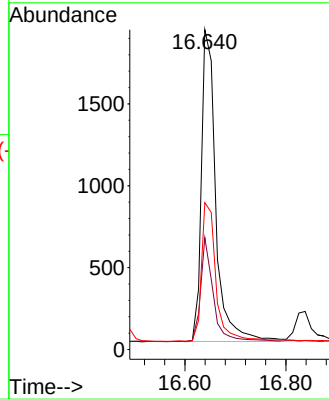
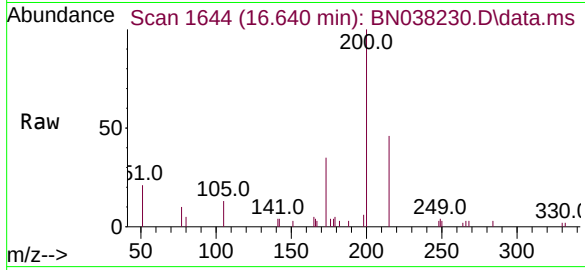




#23
Atrazine
Concen: 0.405 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

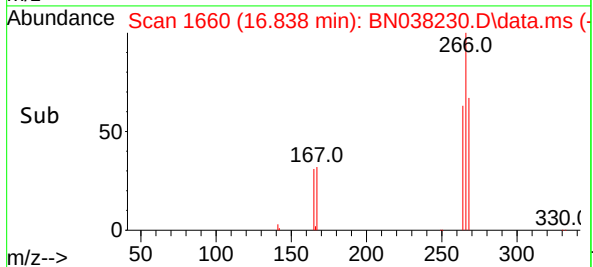
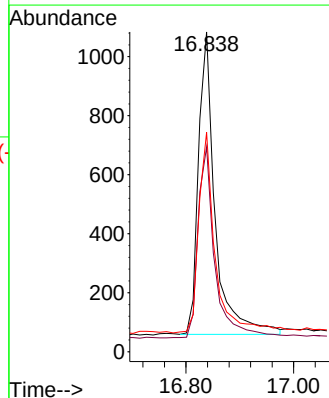
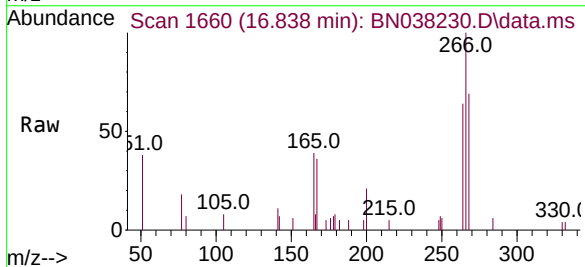
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

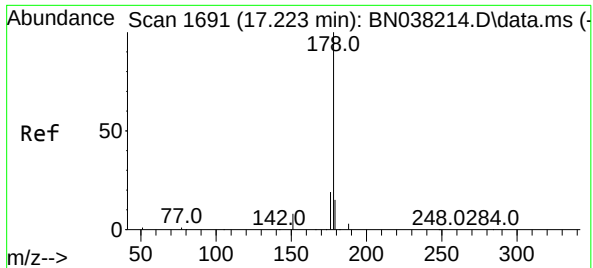
Tgt Ion:200 Resp: 3766
Ion Ratio Lower Upper
200 100
173 35.0 21.0 31.6#
215 45.9 37.8 56.8



#24
Pentachlorophenol
Concen: 0.448 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:266 Resp: 2201
Ion Ratio Lower Upper
266 100
264 64.0 48.9 73.3
268 65.1 50.2 75.2

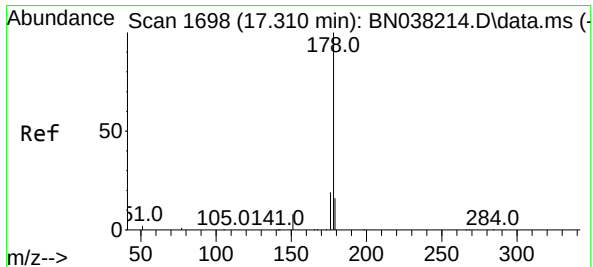
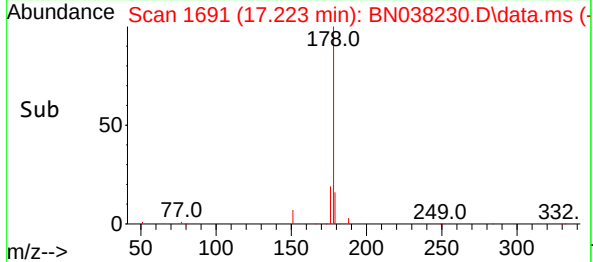
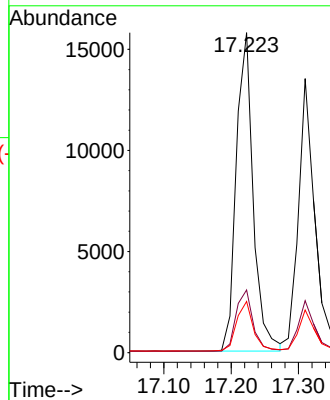
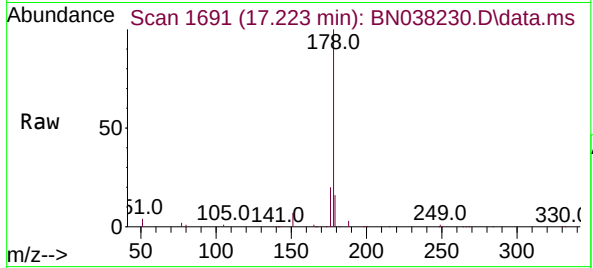




#25
Phenanthrene
Concen: 0.416 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

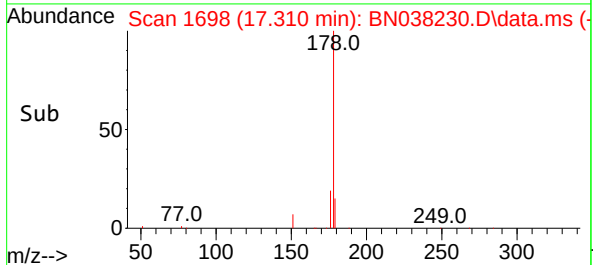
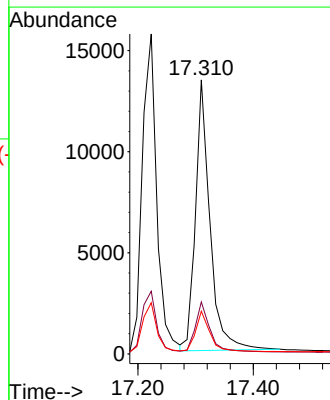
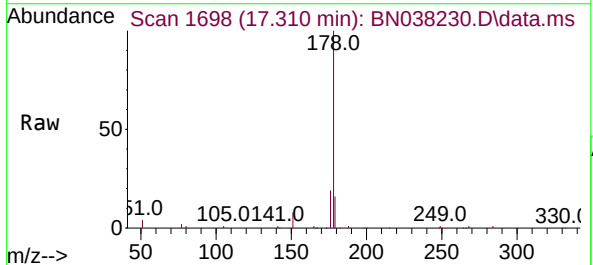
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

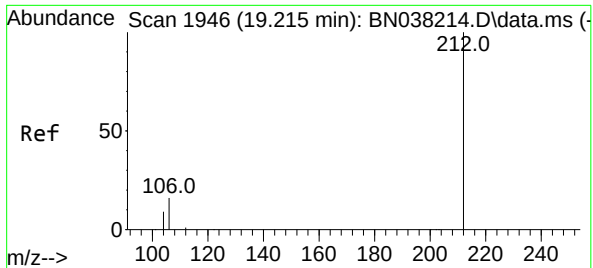
Tgt Ion:178 Resp: 27475
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 15.5 12.0 18.0



#26
Anthracene
Concen: 0.414 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:178 Resp: 23318
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.392 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

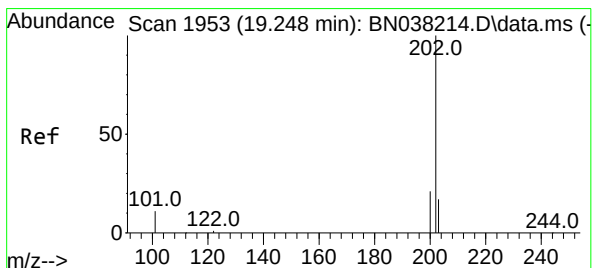
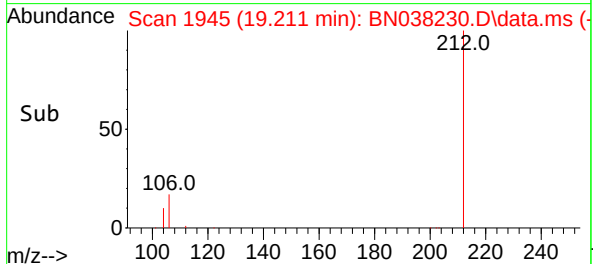
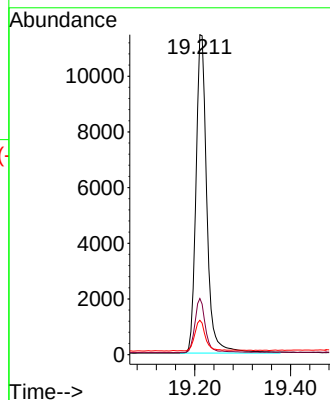
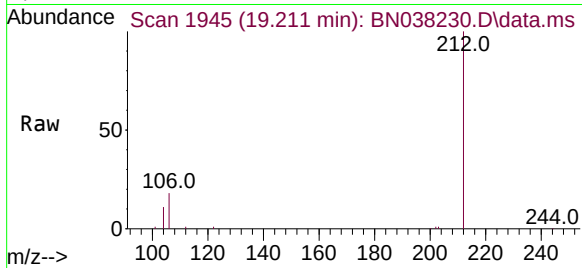
Tgt Ion:212 Resp: 17901

Ion Ratio Lower Upper

212 100

106 16.5 12.7 19.1

104 9.4 7.3 10.9



#28

Fluoranthene

Concen: 0.406 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

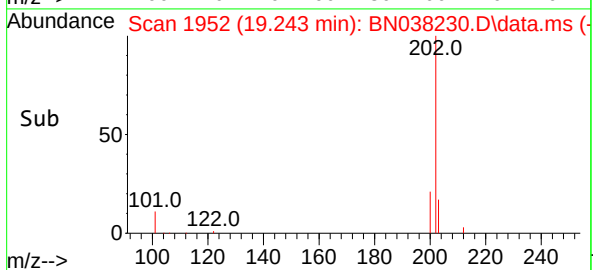
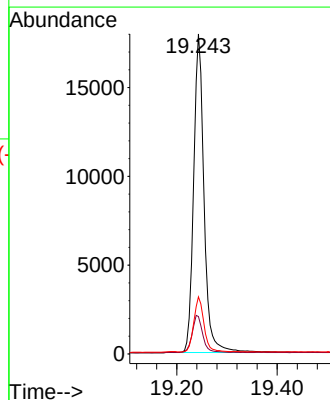
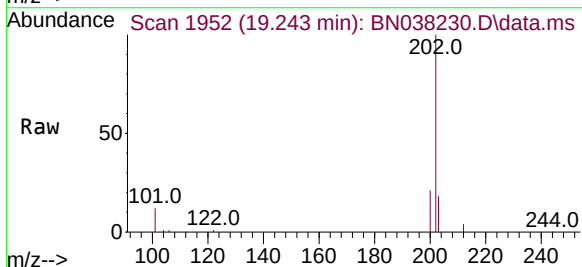
Tgt Ion:202 Resp: 25815

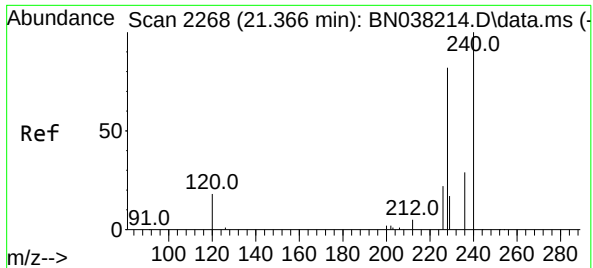
Ion Ratio Lower Upper

202 100

101 11.8 9.8 14.6

203 16.9 13.6 20.4

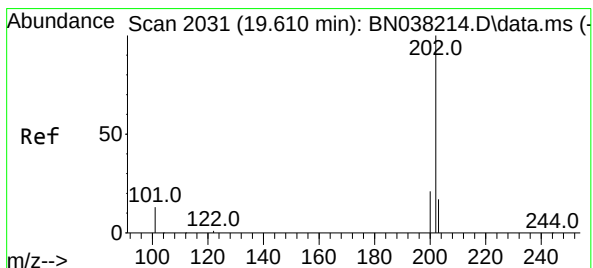
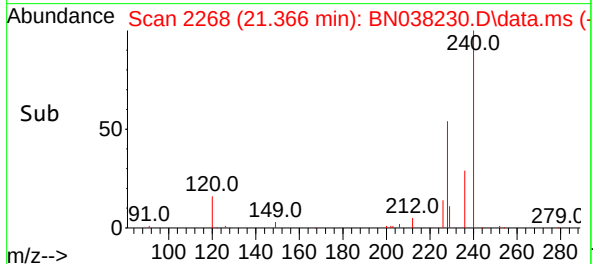
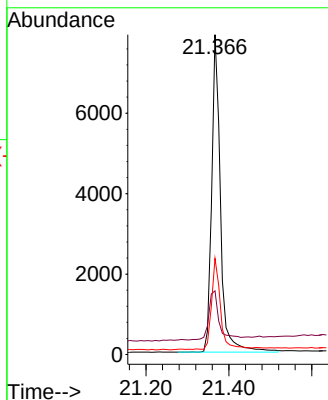
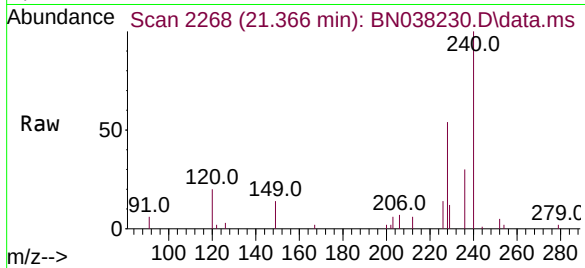




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

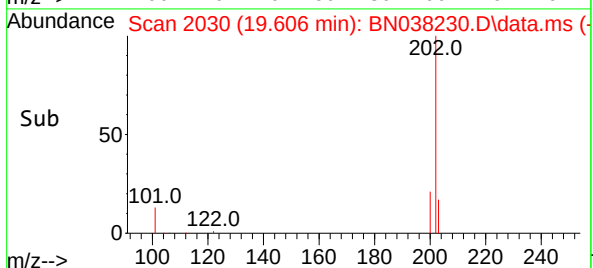
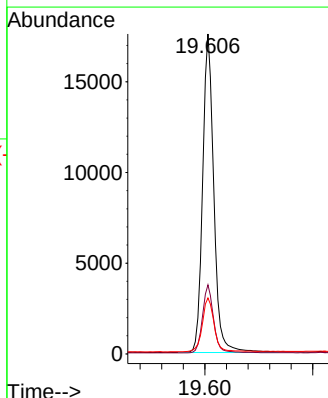
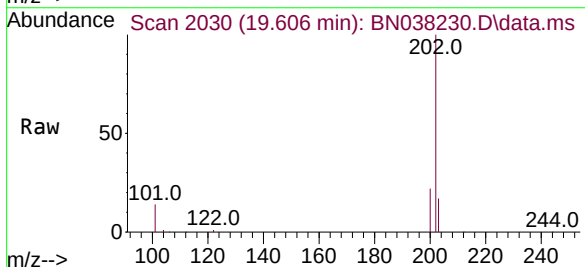
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

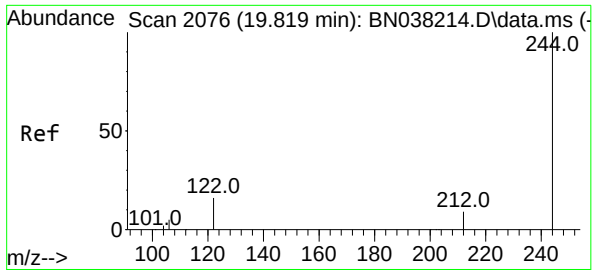
Tgt Ion:240 Resp: 11703
Ion Ratio Lower Upper
240 100
120 19.9 18.1 27.1
236 30.1 24.2 36.4



#30
Pyrene
Concen: 0.433 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:202 Resp: 25312
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 17.7 14.4 21.6

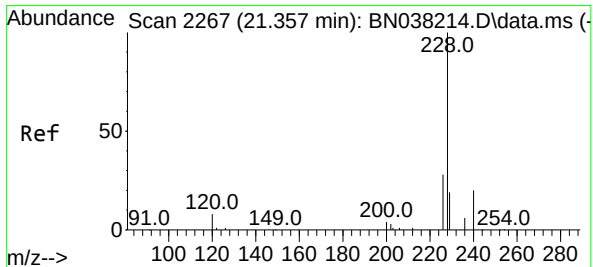
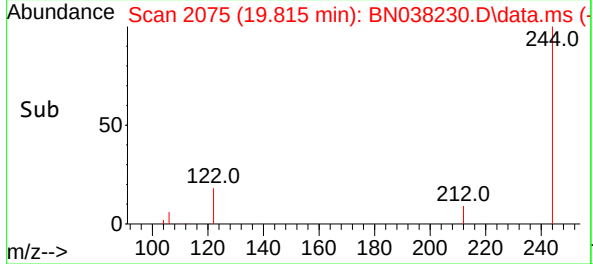
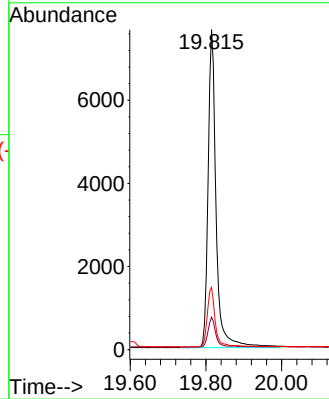
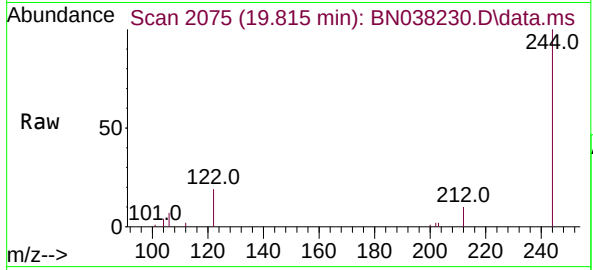




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.815 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

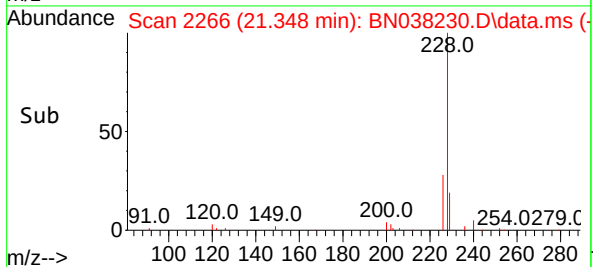
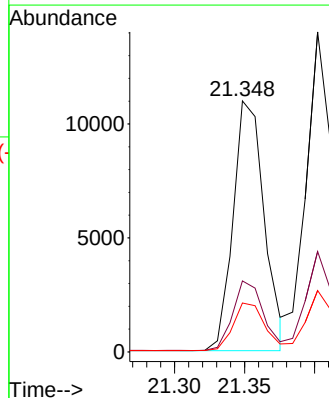
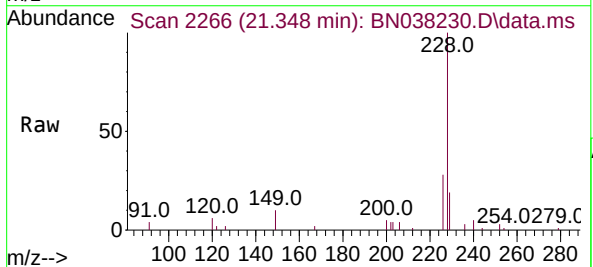
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

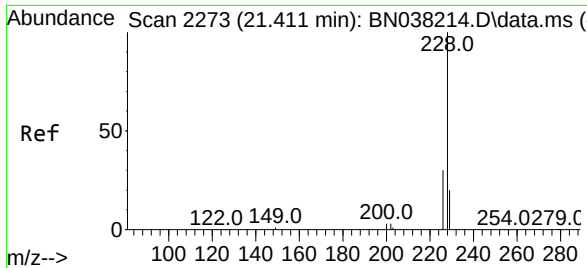
Tgt Ion:244 Resp: 11251
Ion Ratio Lower Upper
244 100
212 10.1 7.7 11.5
122 19.4 13.6 20.4



#32
Benzo(a)anthracene
Concen: 0.428 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:228 Resp: 16944
Ion Ratio Lower Upper
228 100
226 28.3 22.6 33.8
229 19.5 15.8 23.8

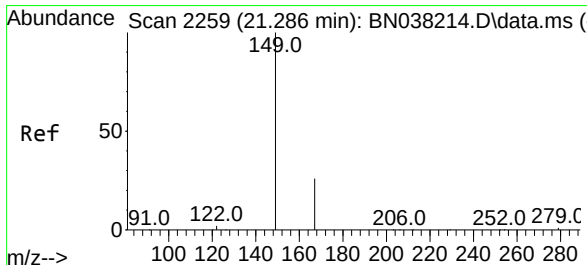
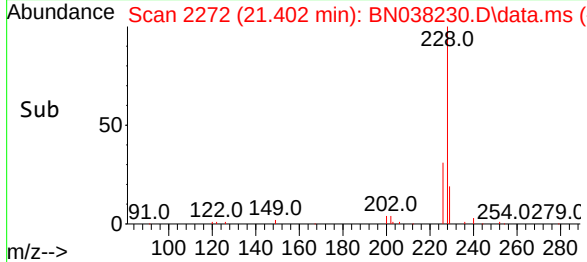
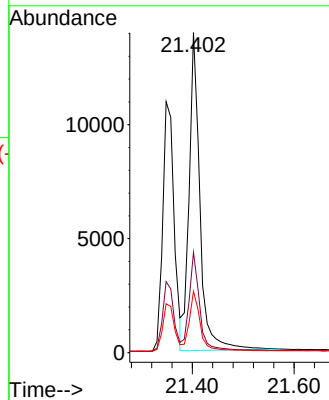
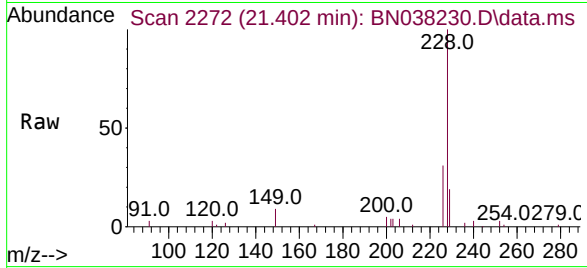




#33
Chrysene
Concen: 0.440 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

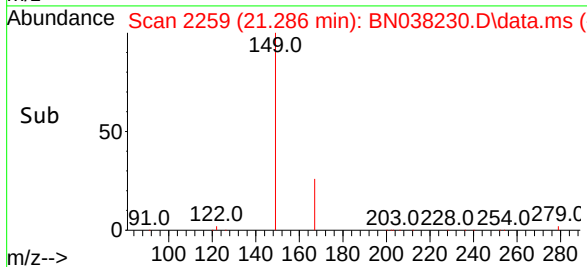
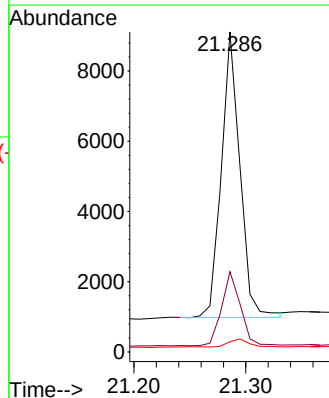
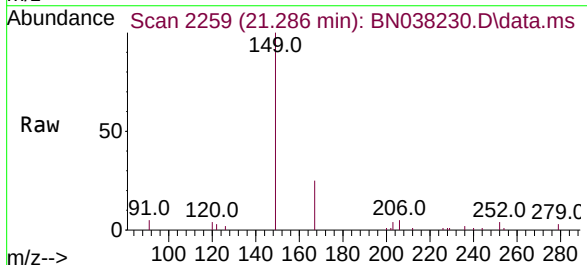
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

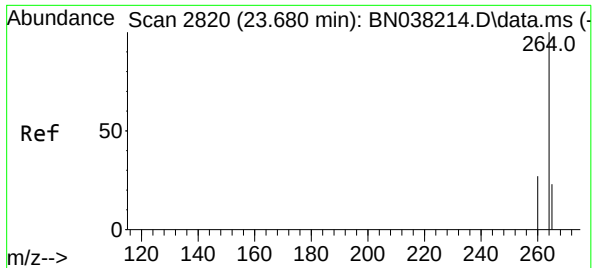
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.8	35.8
229	19.2	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.431 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.0	2.5	3.7

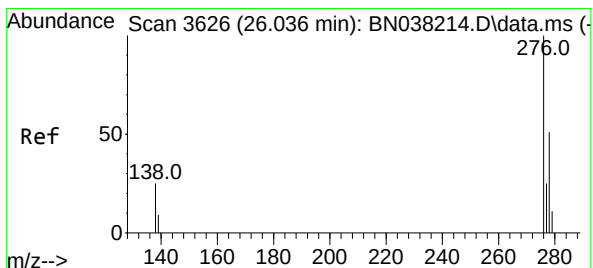
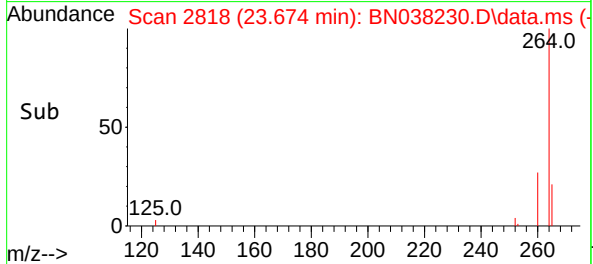
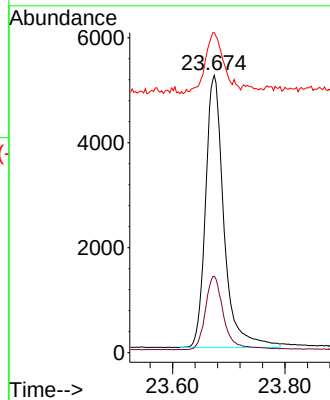
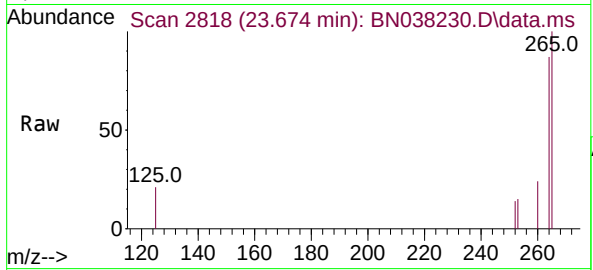




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 2818
Delta R.T. -0.006 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

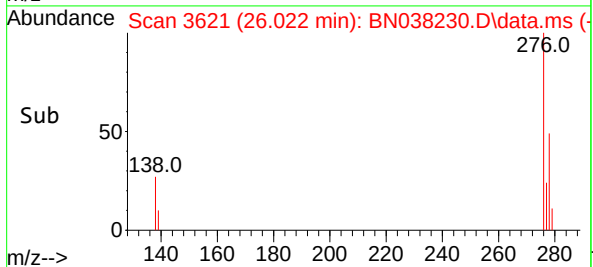
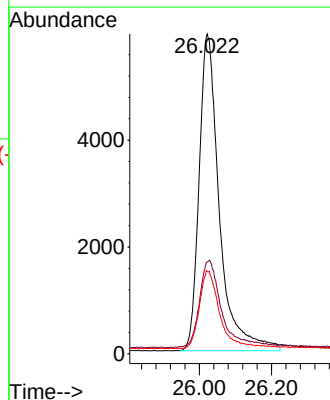
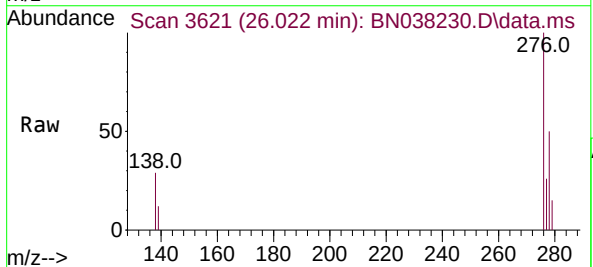
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

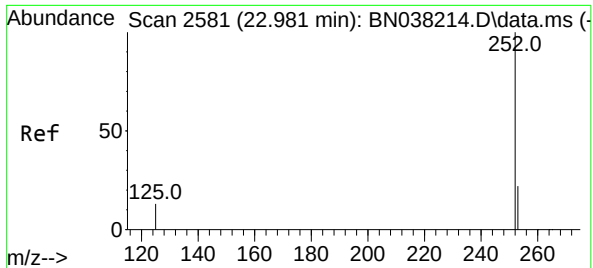
Tgt Ion:264 Resp: 11756
Ion Ratio Lower Upper
264 100
260 27.5 21.7 32.5
265 115.4 98.0 147.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 26.022 min Scan# 3621
Delta R.T. -0.015 min
Lab File: BN038230.D
Acq: 01 Dec 2025 17:51

Tgt Ion:276 Resp: 23141
Ion Ratio Lower Upper
276 100
138 29.5 21.4 32.2
277 24.1 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.404 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

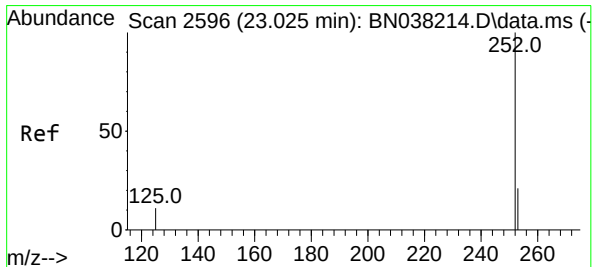
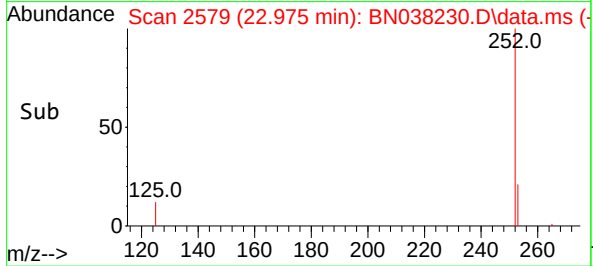
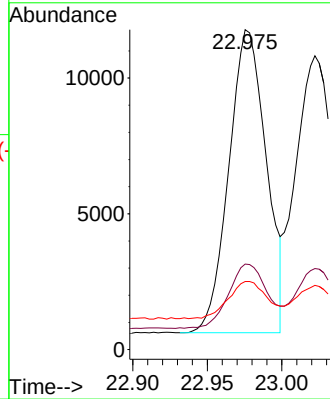
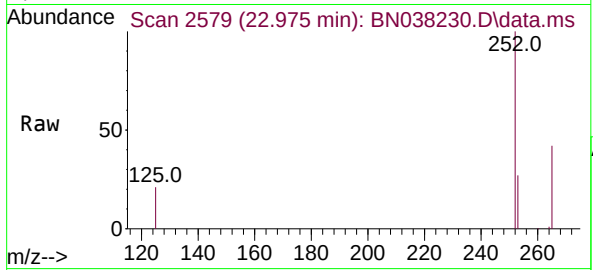
Tgt Ion:252 Resp: 19476

Ion Ratio Lower Upper

252 100

253 26.7 22.2 33.4

125 21.3 18.0 27.0



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 23.022 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

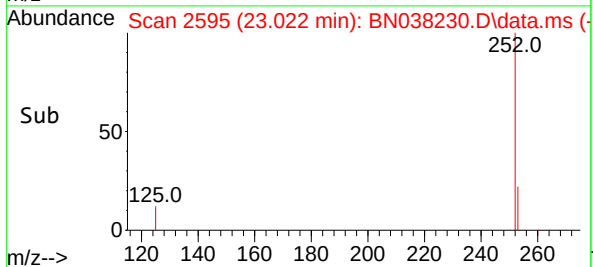
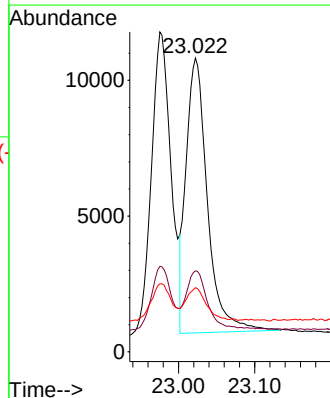
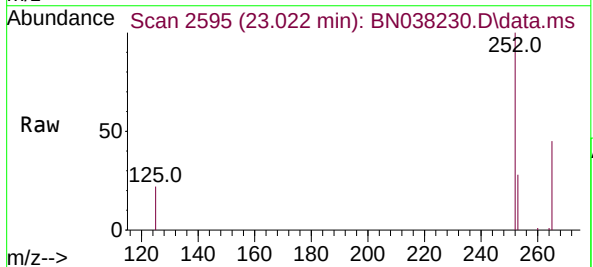
Tgt Ion:252 Resp: 19637

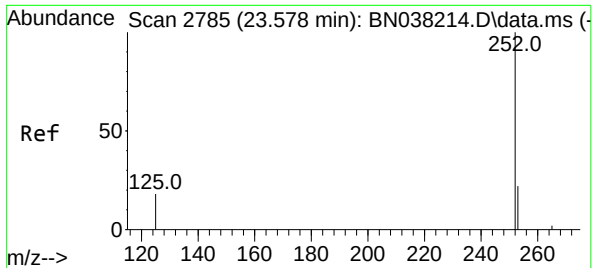
Ion Ratio Lower Upper

252 100

253 27.5 22.4 33.6

125 21.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.405 ng

RT: 23.575 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

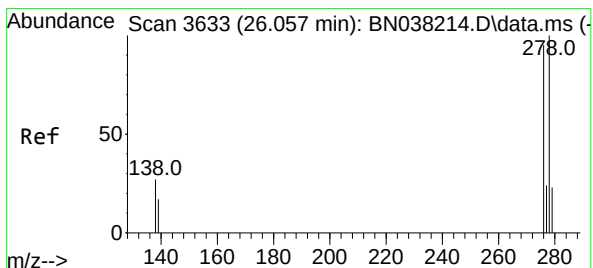
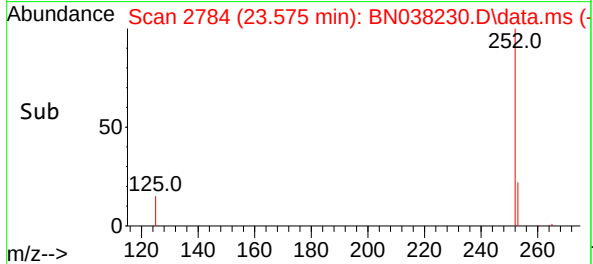
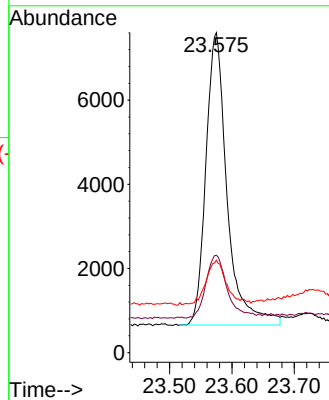
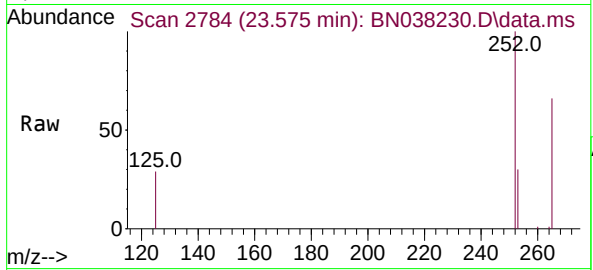
Tgt Ion:252 Resp: 16399

Ion Ratio Lower Upper

252 100

253 30.4 25.3 37.9

125 28.9 25.2 37.8



#40

Dibenzo(a,h)anthracene

Concen: 0.428 ng

RT: 26.042 min Scan# 3628

Delta R.T. -0.015 min

Lab File: BN038230.D

Acq: 01 Dec 2025 17:51

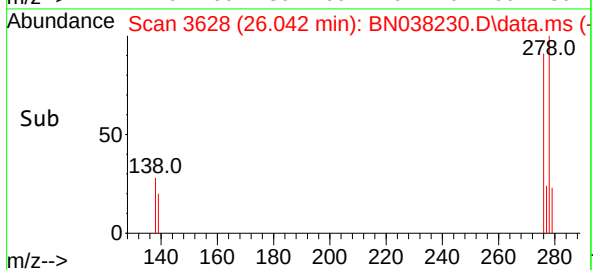
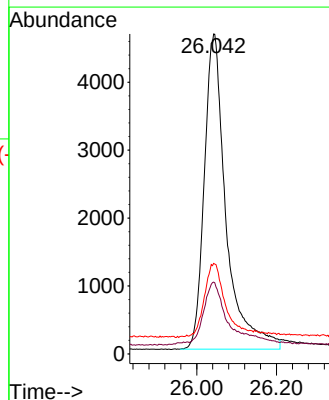
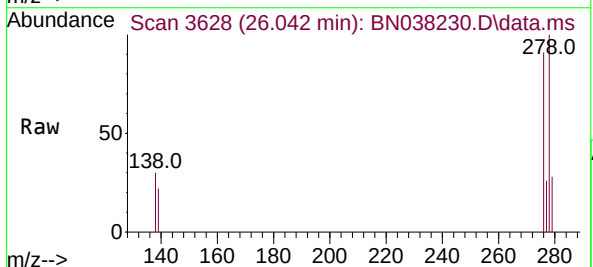
Tgt Ion:278 Resp: 17617

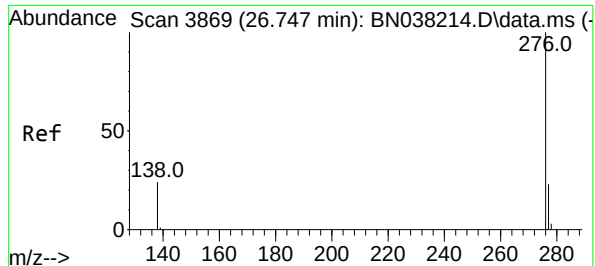
Ion Ratio Lower Upper

278 100

139 22.5 17.6 26.4

279 28.3 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.738 min Scan# 3866

Delta R.T. -0.009 min

Lab File: BN038230.D

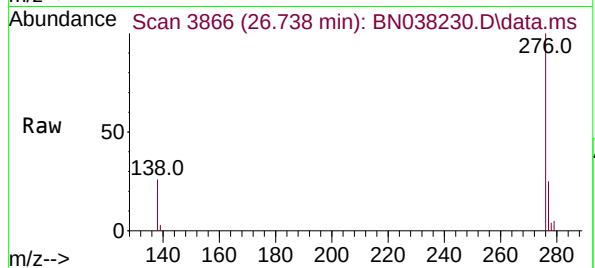
Acq: 01 Dec 2025 17:51

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



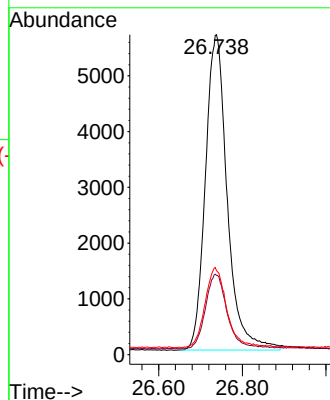
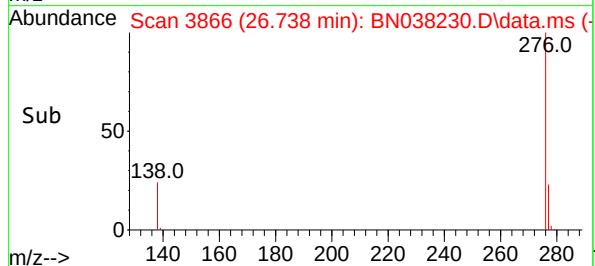
Tgt Ion:276 Resp: 20554

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 26.2 20.8 31.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038230.D
 Acq On : 01 Dec 2025 17:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
2	1,4-Dioxane	0.421	0.451	-7.1	109	0.00
3	n-Nitrosodimethylamine	0.520	0.540	-3.8	107	0.00
4 S	2-Fluorophenol	0.935	0.944	-1.0	103	0.00
5 S	Phenol-d6	1.168	1.204	-3.1	107	0.00
6	bis(2-Chloroethyl)ether	1.118	1.195	-6.9	108	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	105	-0.01
8 S	Nitrobenzene-d5	0.320	0.317	0.9	107	0.00
9	Naphthalene	1.111	1.179	-6.1	107	0.00
10	Hexachlorobutadiene	0.189	0.209	-10.6	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.568	0.591	-4.0	105	0.00
12	2-Methylnaphthalene	0.731	0.766	-4.8	106	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.126	0.139	-10.3	113	-0.01
15 S	2-Fluorobiphenyl	1.545	1.656	-7.2	105	0.00
16	Acenaphthylene	1.789	1.881	-5.1	105	0.00
17	Acenaphthene	1.247	1.321	-5.9	103	-0.01
18	Fluorene	1.614	1.678	-4.0	102	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01
20	4,6-Dinitro-2-methylphenol	0.042	0.043	-2.4	160#	-0.01
21	4-Bromophenyl-phenylether	0.277	0.298	-7.6	101	0.00
22	Hexachlorobenzene	0.341	0.380	-11.4	102	0.00
23	Atrazine	0.177	0.179	-1.1	99	-0.01
24	Pentachlorophenol	0.093	0.105	-12.9	120	0.00
25	Phenanthrene	1.256	1.306	-4.0	96	0.00
26	Anthracene	1.071	1.109	-3.5	100	0.00
27 SURR	Fluoranthene-d10	0.868	0.851	2.0	92	0.00
28	Fluoranthene	1.210	1.227	-1.4	96	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	91	0.00
30	Pyrene	1.998	2.163	-8.3	95	0.00
31 S	Terphenyl-d14	0.924	0.961	-4.0	91	0.00
32	Benzo(a)anthracene	1.355	1.448	-6.9	97	0.00
33	Chrysene	1.599	1.760	-10.1	97	0.00
34	Bis(2-ethylhexyl)phthalate	0.742	0.799	-7.7	91	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.851	1.968	-6.3	103	-0.01
37	Benzo(b)fluoranthene	1.642	1.657	-0.9	96	0.00
38	Benzo(k)fluoranthene	1.707	1.670	2.2	93	0.00
39 C	Benzo(a)pyrene	1.376	1.395	-1.4	99	0.00
40	Dibenzo(a,h)anthracene	1.401	1.499	-7.0	107	-0.01
41	Benzo(g,h,i)perylene	1.674	1.748	-4.4	100	0.00

(#) = Out of Range

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

Instrument :

BNA_N

LabSampleId :

SSTDCCC0.4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038230.D
 Acq On : 01 Dec 2025 17:51
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 01 18:21:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	108	0.00
2	1,4-Dioxane	0.400	0.428	-7.0	109	0.00
3	n-Nitrosodimethylamine	0.400	0.416	-4.0	107	0.00
4 S	2-Fluorophenol	0.400	0.404	-1.0	103	0.00
5 S	Phenol-d6	0.400	0.412	-3.0	107	0.00
6	bis(2-Chloroethyl)ether	0.400	0.428	-7.0	108	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	105	-0.01
8 S	Nitrobenzene-d5	0.400	0.396	1.0	107	0.00
9	Naphthalene	0.400	0.424	-6.0	107	0.00
10	Hexachlorobutadiene	0.400	0.442	-10.5	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.416	-4.0	105	0.00
12	2-Methylnaphthalene	0.400	0.419	-4.7	106	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	100	0.00
14 S	2,4,6-Tribromophenol	0.400	0.440	-10.0	113	-0.01
15 S	2-Fluorobiphenyl	0.400	0.429	-7.2	105	0.00
16	Acenaphthylene	0.400	0.421	-5.2	105	0.00
17	Acenaphthene	0.400	0.424	-6.0	103	-0.01
18	Fluorene	0.400	0.416	-4.0	102	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	96	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.563	-40.7#	160	-0.01
21	4-Bromophenyl-phenylether	0.400	0.430	-7.5	101	0.00
22	Hexachlorobenzene	0.400	0.446	-11.5	102	0.00
23	Atrazine	0.400	0.405	-1.3	99	-0.01
24	Pentachlorophenol	0.400	0.448	-12.0	120	0.00
25	Phenanthrene	0.400	0.416	-4.0	96	0.00
26	Anthracene	0.400	0.414	-3.5	100	0.00
27 SURR	Fluoranthene-d10	0.400	0.392	2.0	92	0.00
28	Fluoranthene	0.400	0.406	-1.5	96	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	91	0.00
30	Pyrene	0.400	0.433	-8.2	95	0.00
31 S	Terphenyl-d14	0.400	0.416	-4.0	91	0.00
32	Benzo(a)anthracene	0.400	0.428	-7.0	97	0.00
33	Chrysene	0.400	0.440	-10.0	97	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.431	-7.7	91	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.425	-6.2	103	-0.01
37	Benzo(b)fluoranthene	0.400	0.404	-1.0	96	0.00
38	Benzo(k)fluoranthene	0.400	0.391	2.3	93	0.00
39 C	Benzo(a)pyrene	0.400	0.405	-1.3	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.428	-7.0	107	-0.01
41	Benzo(g,h,i)perylene	0.400	0.418	-4.5	100	0.00

(#) = Out of Range

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

Instrument :

BNA_N

LabSampleId :

SSTDCCC0.4



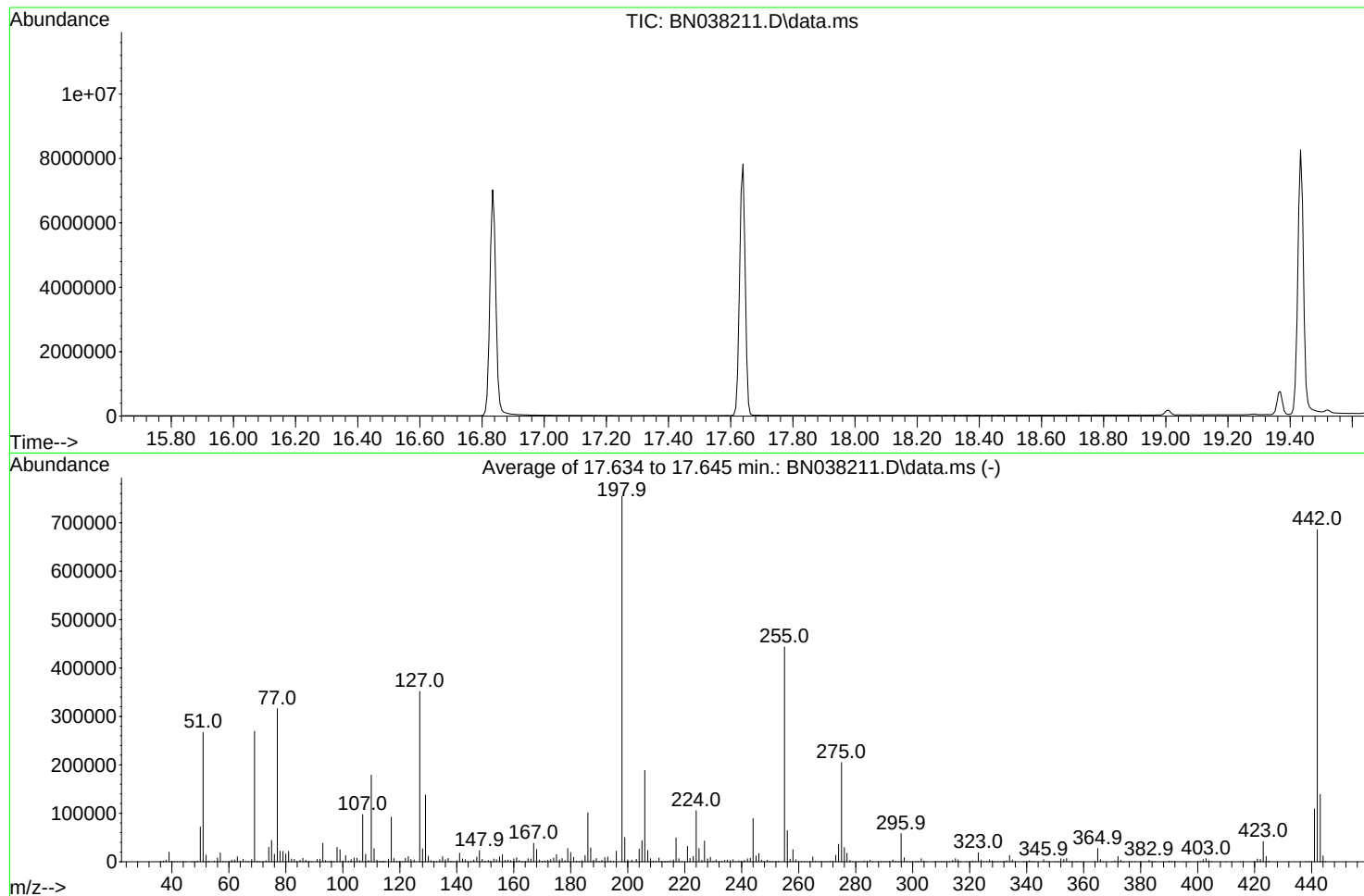
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025



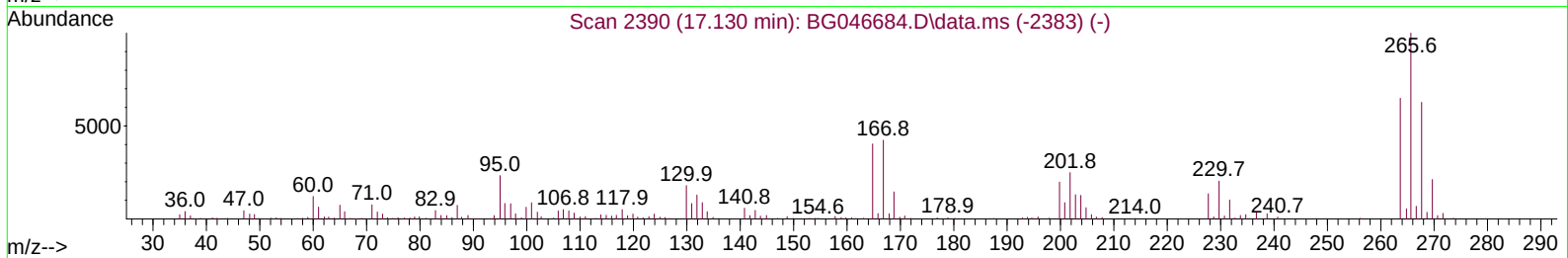
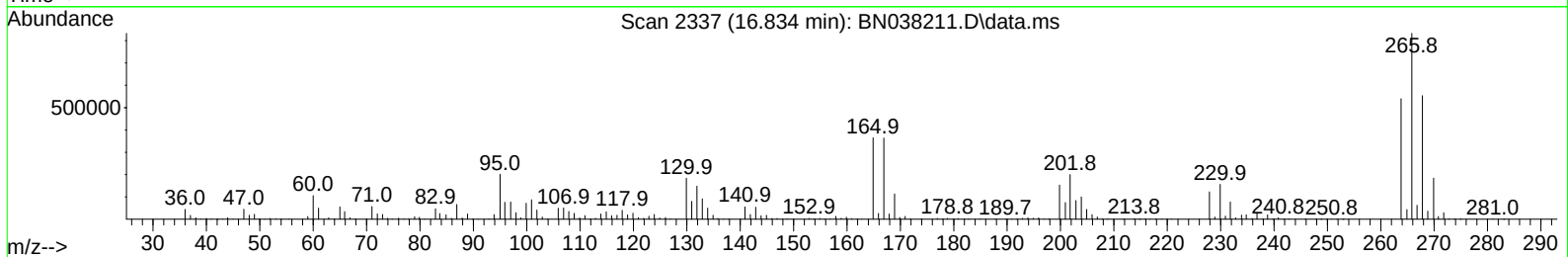
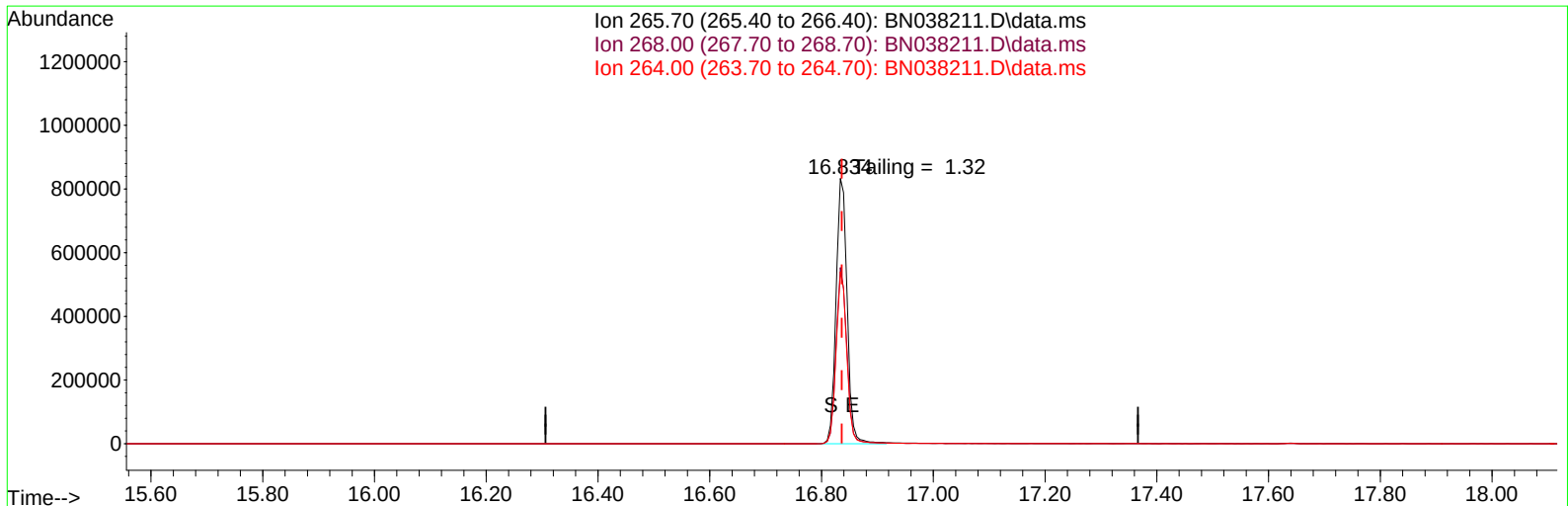
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2465

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	4865	PASS
69	69	100	100	100.0	269184	PASS
70	69	0.00	2	0.5	1321	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	754667	PASS
199	198	5	9	6.6	49939	PASS
365	198	1	100	3.6	27373	PASS
441	443	0.01	150	78.5	109085	PASS
442	442	100	100	100.0	685653	PASS
443	442	15	24	20.3	139035	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration



TIC: BN038211.D\data.ms

(70) Pentachlorophenol (C)

16.834min (-0.002) 31780.36 ng

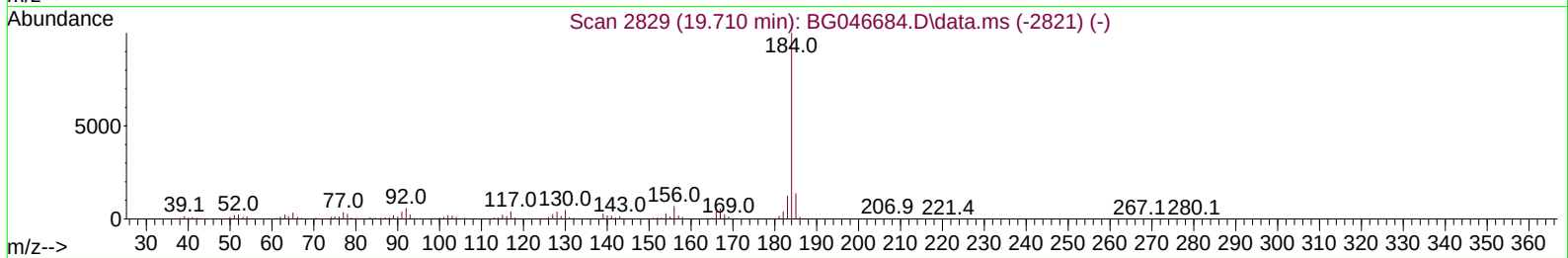
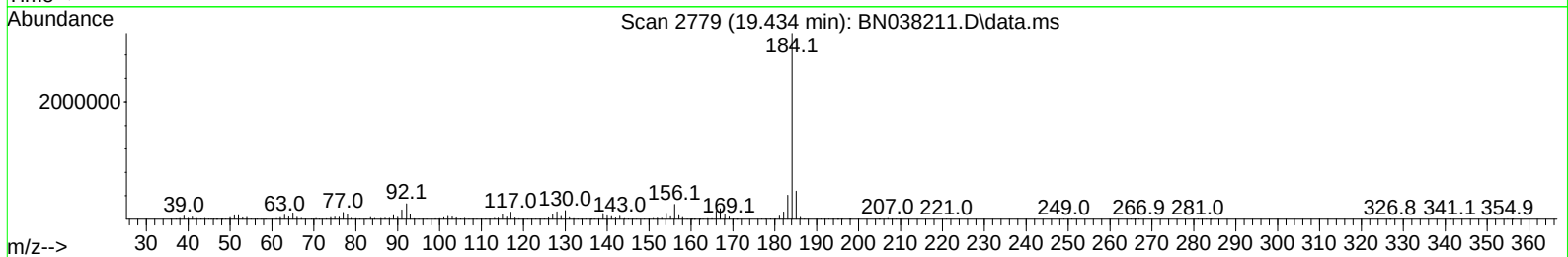
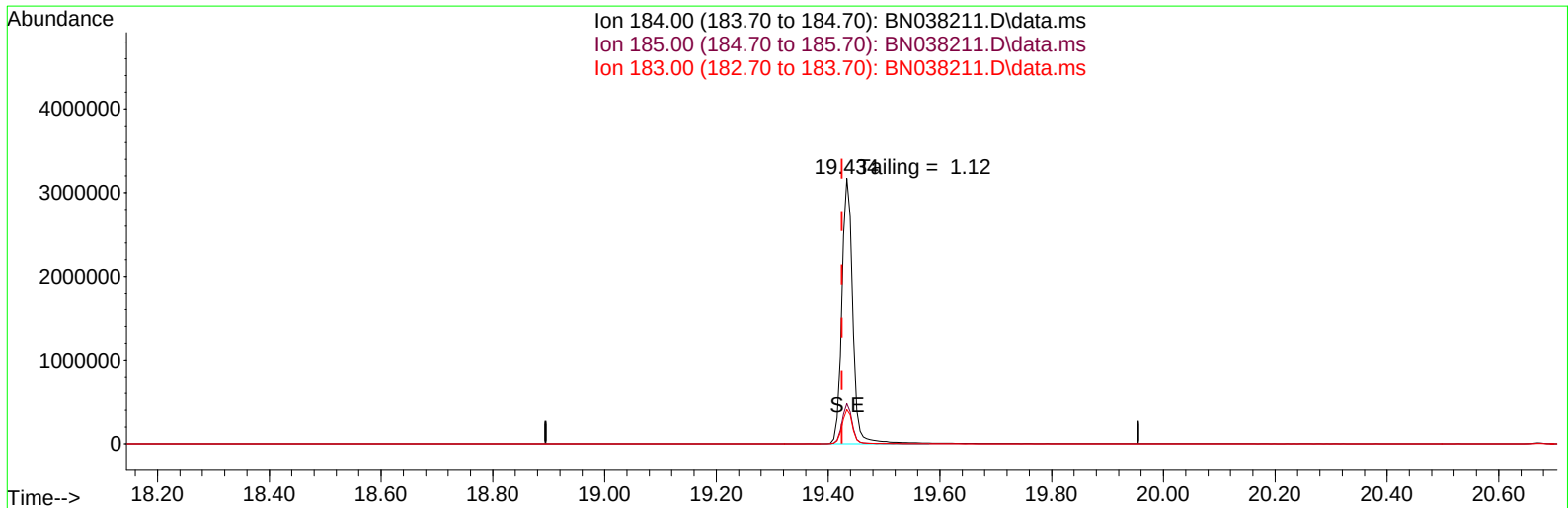
response 1154991

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.41
264.00	61.60	64.81
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration



TIC: BN038211.D\data.ms

(77) Benzidine

19.434min (+ 0.009) 0.00 ng

response 4344162

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.12
183.00	13.20	12.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/27/2025	BNA_N	<u>BN038211.D</u>
Compound Name	Response	Retention Time
DDT	2721200	20.675
DDD	25337	20.233
DDE	5413	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
30750	2751950	1.12

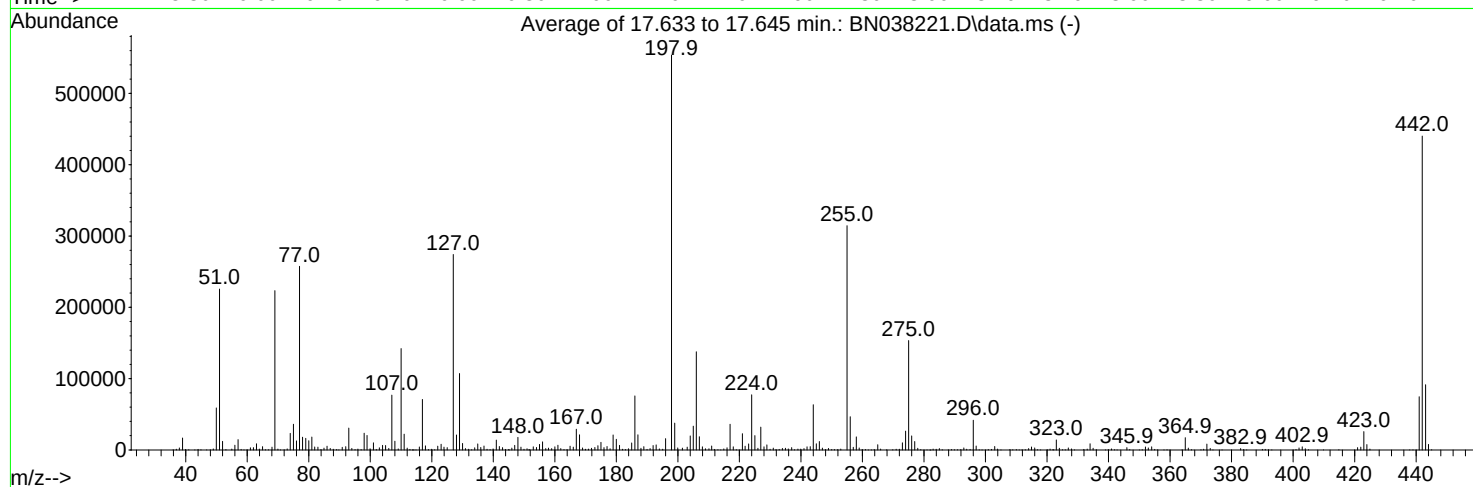
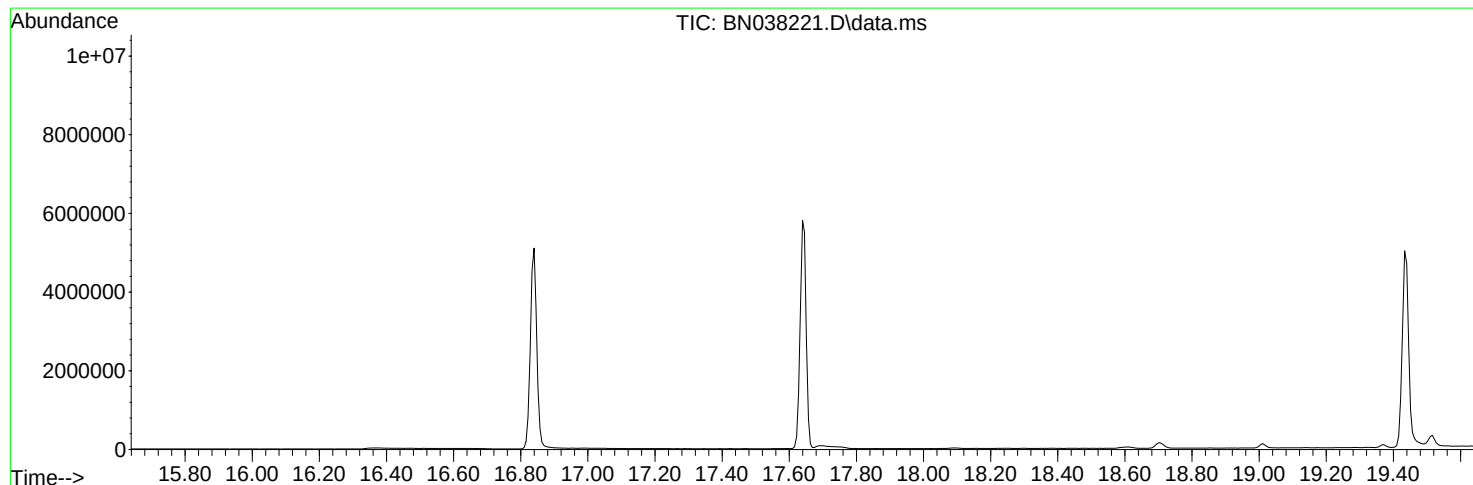
Instrument :
BNA_N
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038221.D
Acq On : 01 Dec 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025



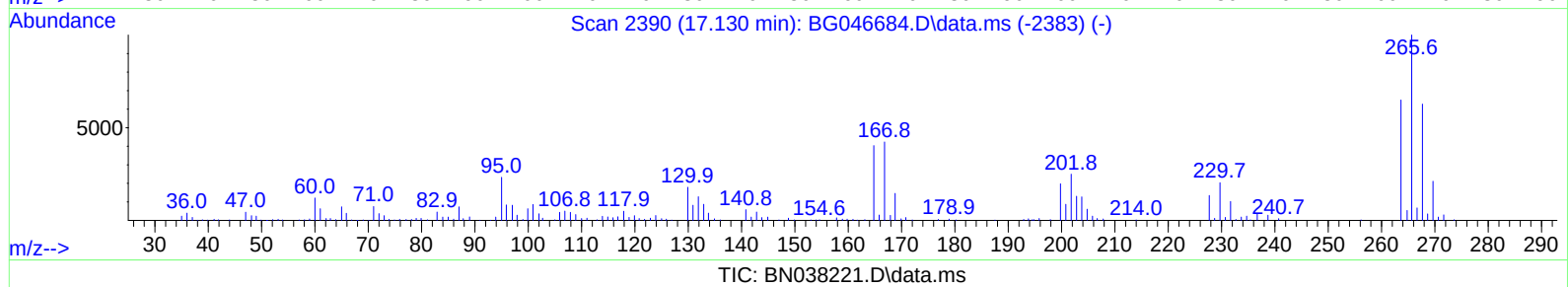
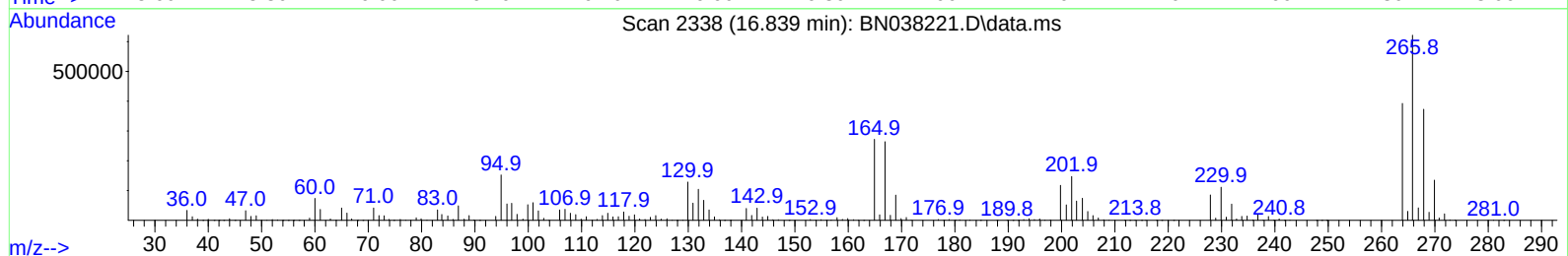
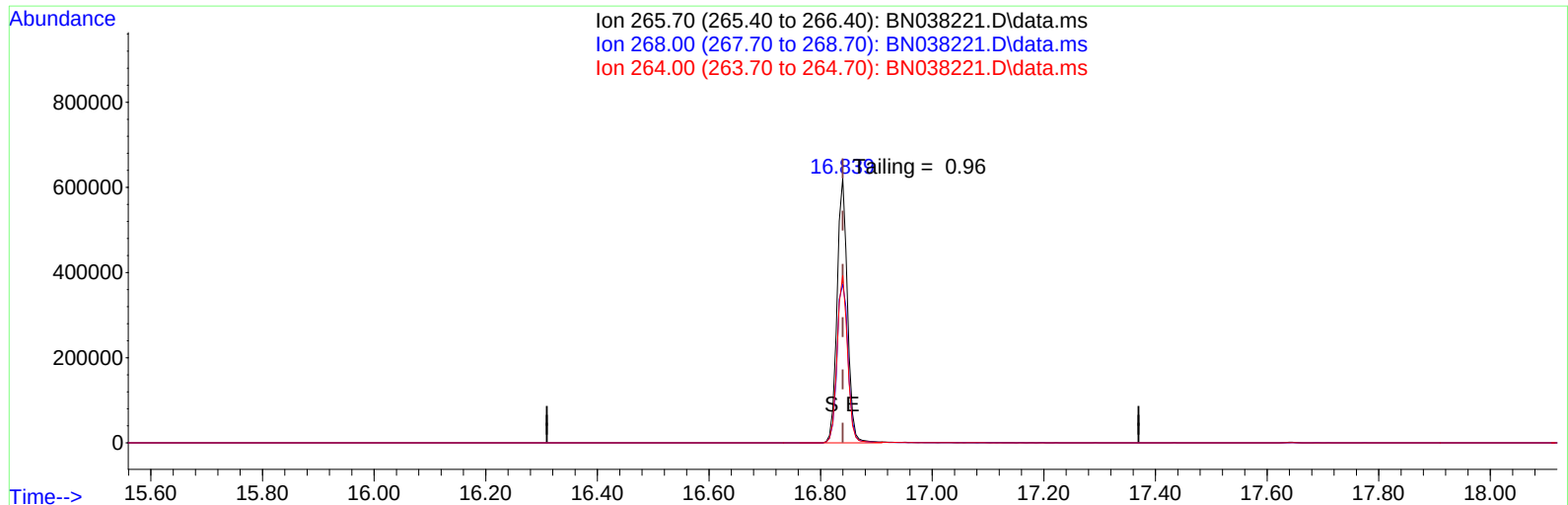
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	4018	PASS
69	69	100	100	100.0	223472	PASS
70	69	0.00	2	0.5	1164	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	553771	PASS
199	198	5	9	6.8	37515	PASS
365	198	1	100	3.1	17260	PASS
441	443	0.01	150	81.5	74659	PASS
442	442	100	100	100.0	440299	PASS
443	442	15	24	20.8	91557	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038221.D
Acq On : 01 Dec 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 10:15:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration



(70) Pentachlorophenol (C)

16.839min (0.000) 277.71 ng

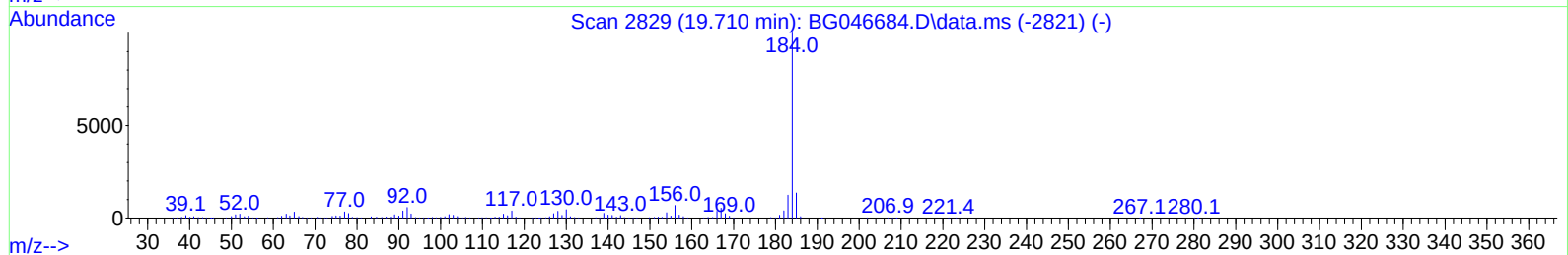
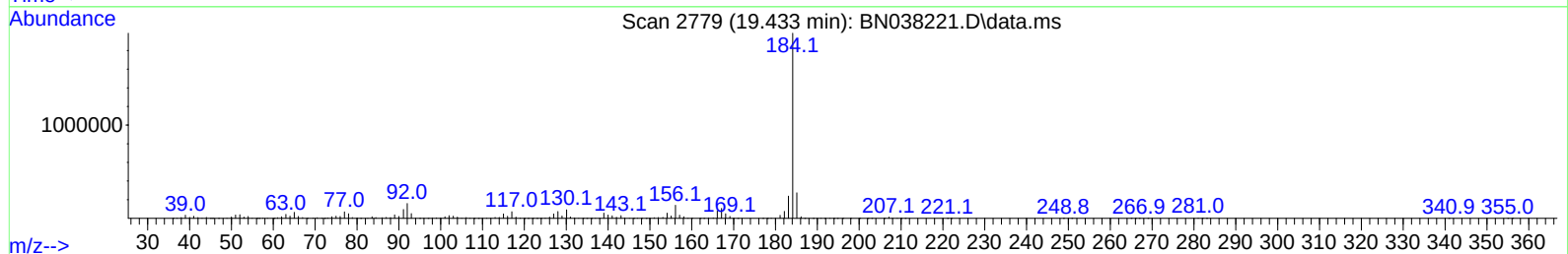
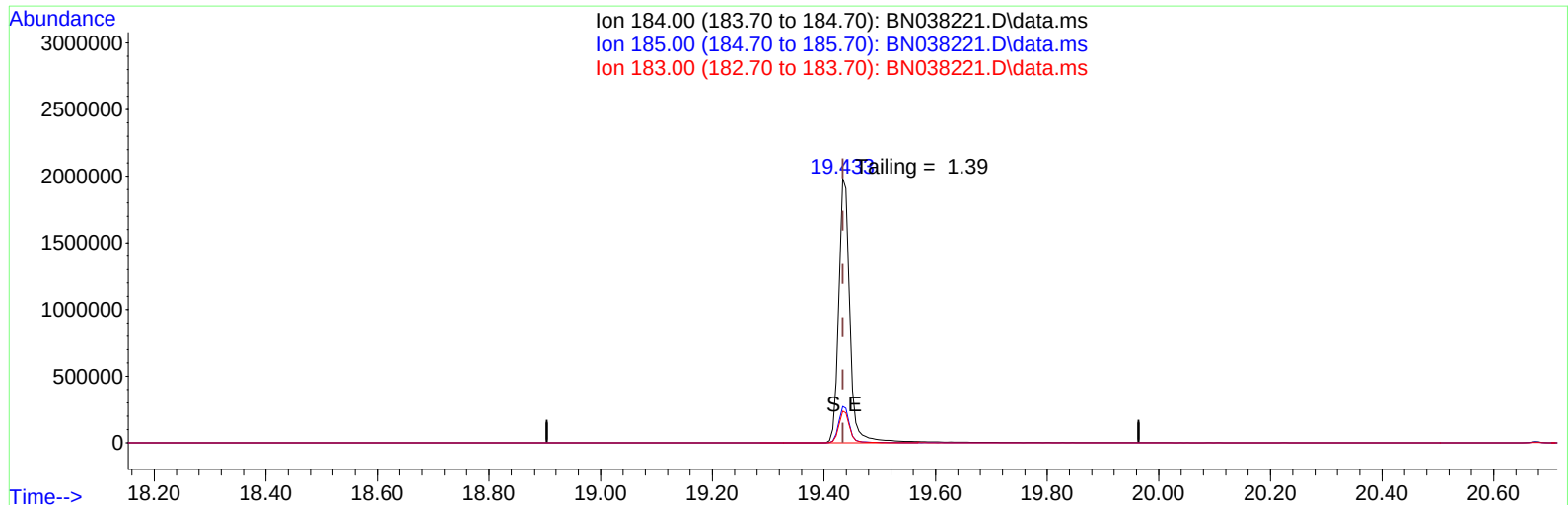
response 805839

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.99
264.00	61.60	63.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038221.D
Acq On : 01 Dec 2025 09:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 10:15:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration



TIC: BN038221.D\data.ms

(77) Benzidine

19.433min (0.000) 0.00 ng

response 2788820

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.78
183.00	13.20	12.01
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/1/2025	BNA_N	<u>BN038221.D</u>
Compound Name	Response	Retention Time
DDT	2086896	20.674
DDD	33362	20.233
DDE	7757	19.727
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
41119	2128015	1.93

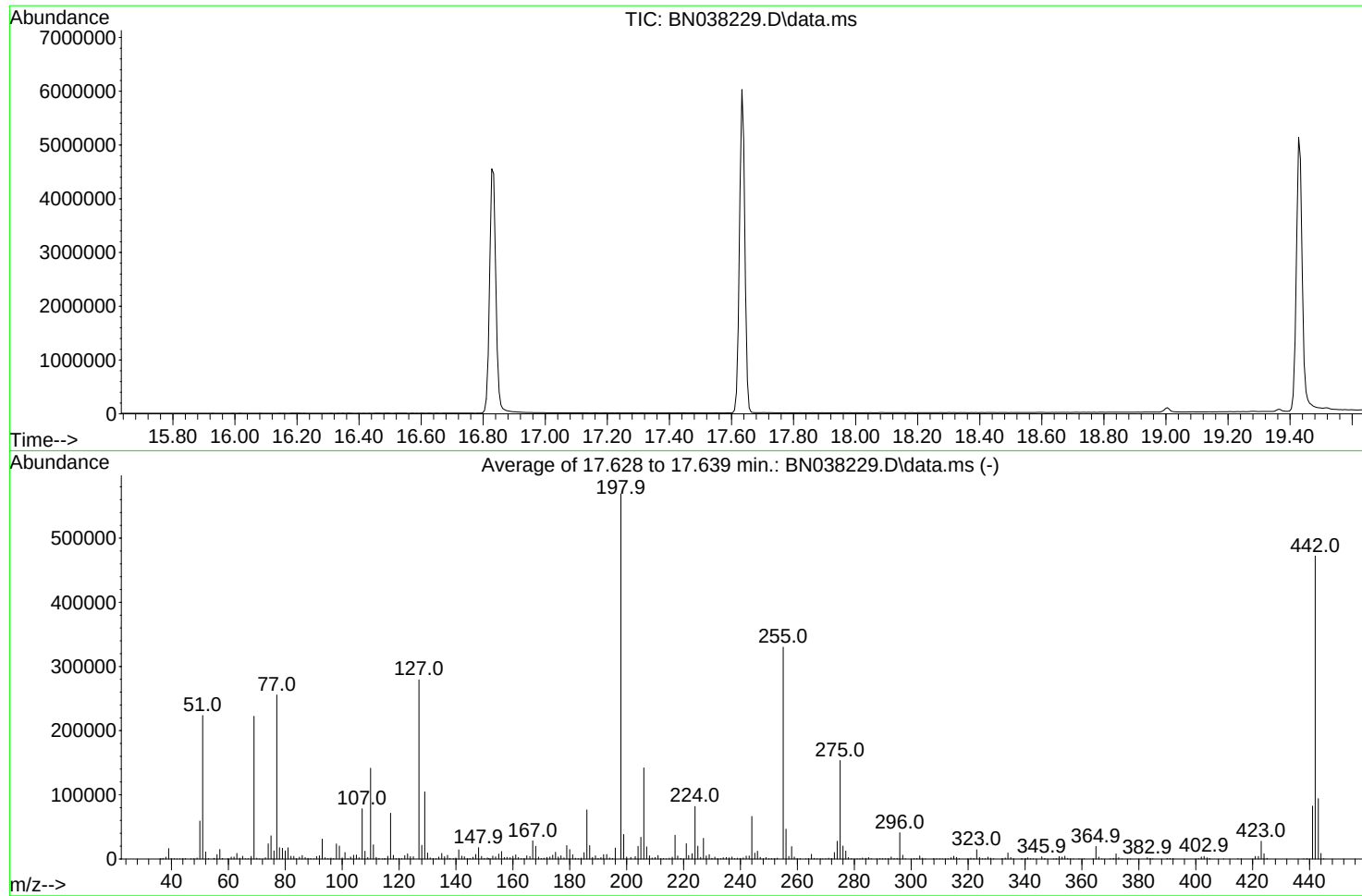
Instrument :
BNA_N
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038229.D
Acq On : 01 Dec 2025 17:11
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025



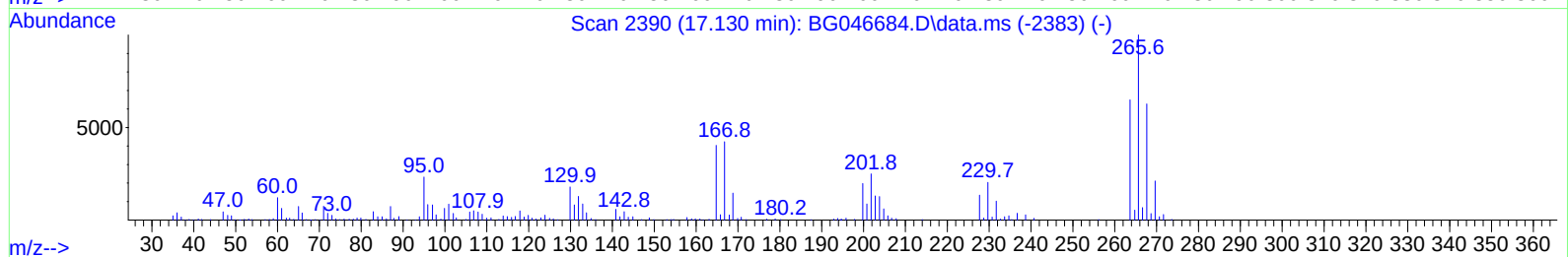
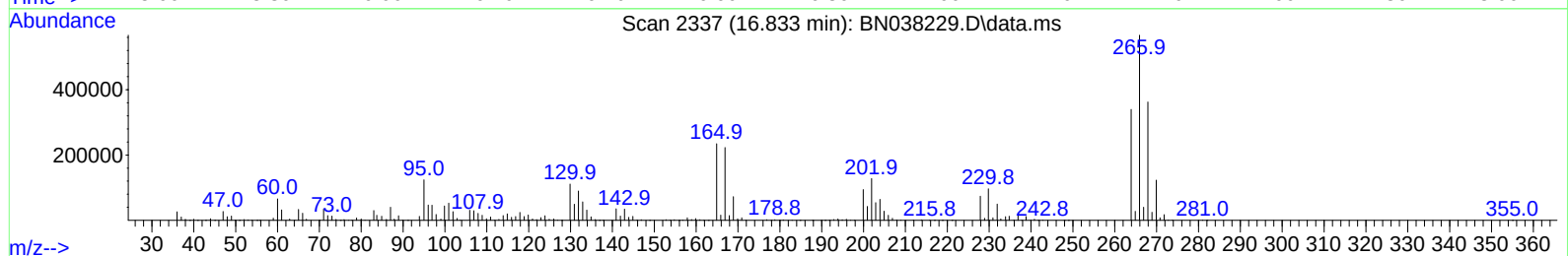
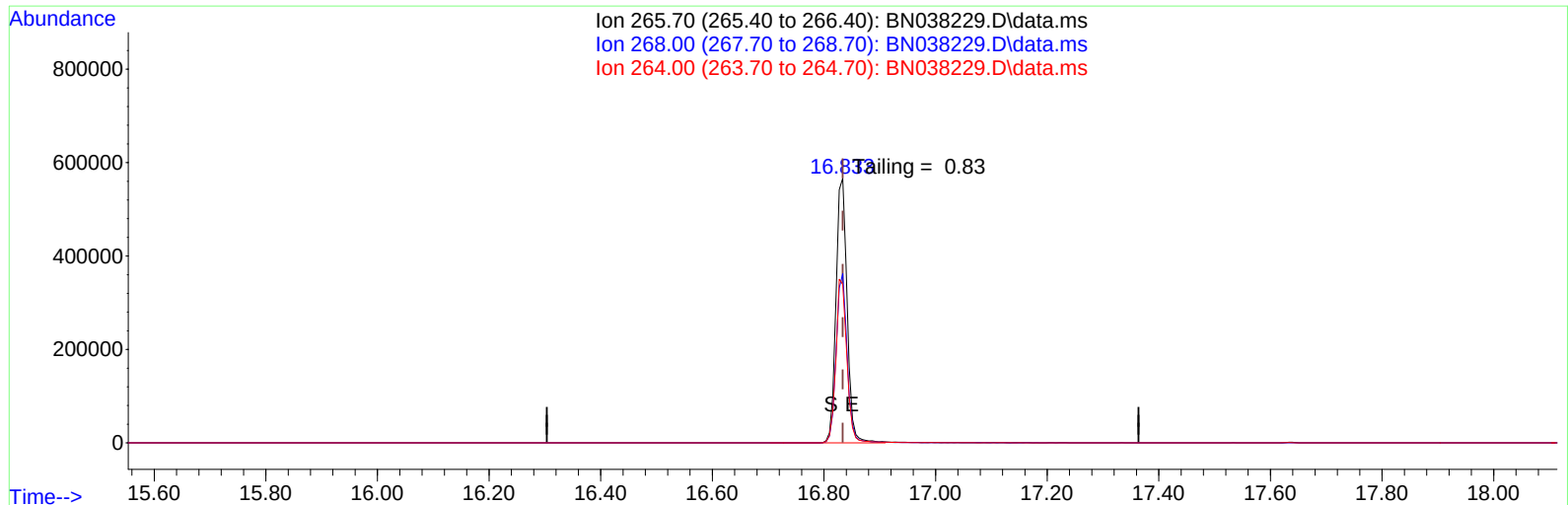
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3958	PASS
69	69	100	100	100.0	222464	PASS
70	69	0.00	2	0.5	1221	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	569067	PASS
199	198	5	9	6.7	38248	PASS
365	198	1	100	3.4	19427	PASS
441	443	0.01	150	87.9	82573	PASS
442	442	100	100	100.0	472256	PASS
443	442	15	24	19.9	93936	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038229.D
Acq On : 01 Dec 2025 17:11
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 17:45:43 2025
Response via : Initial Calibration



TIC: BN038229.D\data.ms

(70) Pentachlorophenol (C)

16.833min (0.000) 277.76 ng

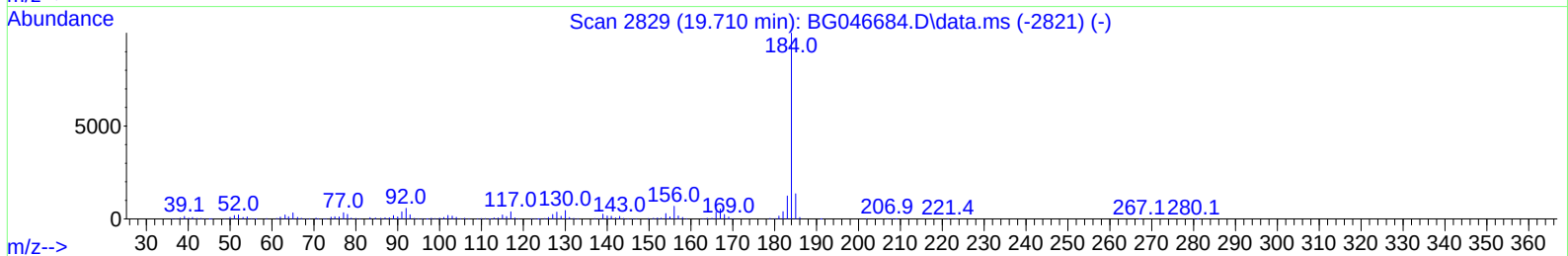
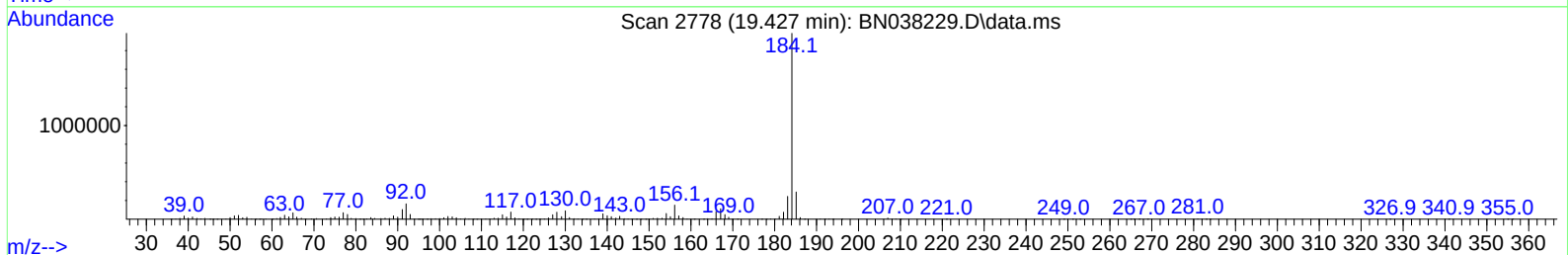
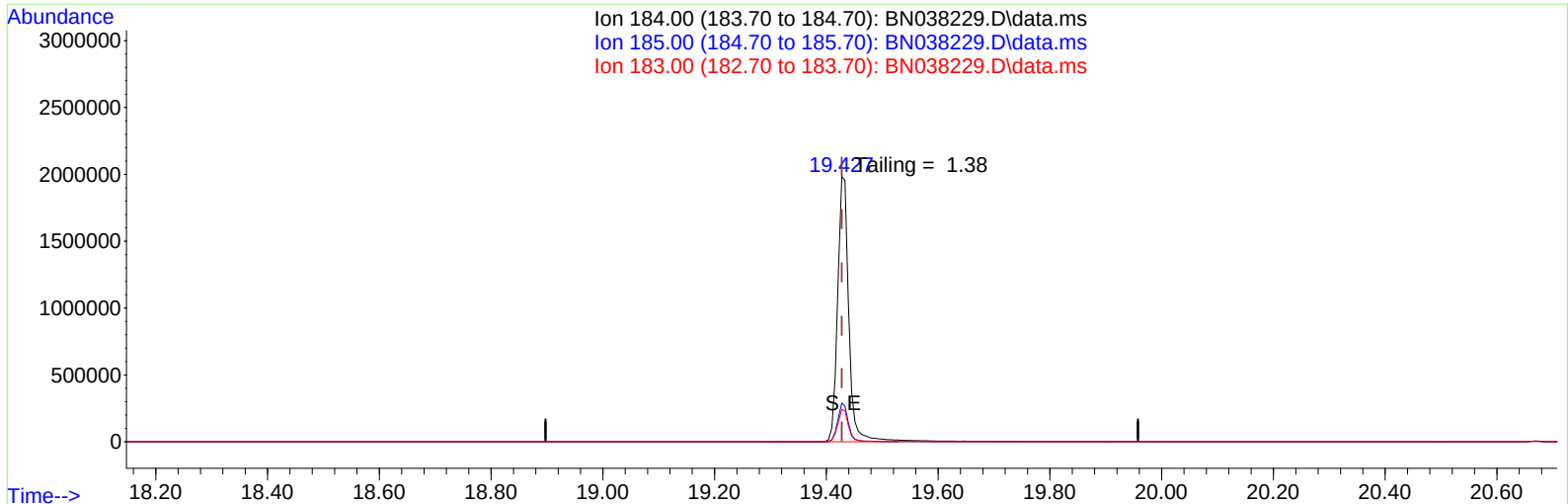
response 785850

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.93
264.00	61.60	59.91
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038229.D
Acq On : 01 Dec 2025 17:11
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 17:45:43 2025
Response via : Initial Calibration



TIC: BN038229.D\data.ms

(77) Benzidine

19.427min (0.000) 0.00 ng

response 2797498

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.63
183.00	13.20	12.24
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/1/2025	BNA_N	<u>BN038229.D</u>
Compound Name	Response	Retention Time
DDT	1521305	20.679
DDD	52158	20.227
DDE	1105	19.722
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
53263	1574568	3.38

Instrument :
BNA_N
ClientSampleId :
DFTPP



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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: PB170590BL
Lab Sample ID: PB170590BL
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.02 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected:
Date Received:
SDG No.: Q3483
Matrix: SOIL
% Solid: 100
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	1.20	U	1	1.20	3.30	ug/Kg	12/01/25 10:59	PB170590
91-57-6	2-Methylnaphthalene	1.20	U	1	1.20	3.30	ug/Kg	12/01/25 10:59	PB170590
208-96-8	Acenaphthylene	1.10	U	1	1.10	3.30	ug/Kg	12/01/25 10:59	PB170590
83-32-9	Acenaphthene	1.10	U	1	1.10	3.30	ug/Kg	12/01/25 10:59	PB170590
86-73-7	Fluorene	1.10	U	1	1.10	3.30	ug/Kg	12/01/25 10:59	PB170590
85-01-8	Phenanthrene	1.20	U	1	1.20	3.30	ug/Kg	12/01/25 10:59	PB170590
120-12-7	Anthracene	1.20	U	1	1.20	3.30	ug/Kg	12/01/25 10:59	PB170590
206-44-0	Fluoranthene	1.20	U	1	1.20	3.30	ug/Kg	12/01/25 10:59	PB170590
129-00-0	Pyrene	1.10	U	1	1.10	3.30	ug/Kg	12/01/25 10:59	PB170590
56-55-3	Benzo(a)anthracene	1.30	U	1	1.30	3.30	ug/Kg	12/01/25 10:59	PB170590
218-01-9	Chrysene	1.40	U	1	1.40	3.30	ug/Kg	12/01/25 10:59	PB170590
205-99-2	Benzo(b)fluoranthene	1.60	U	1	1.60	3.30	ug/Kg	12/01/25 10:59	PB170590
207-08-9	Benzo(k)fluoranthene	1.80	U	1	1.80	3.30	ug/Kg	12/01/25 10:59	PB170590
50-32-8	Benzo(a)pyrene	1.40	U	1	1.40	3.30	ug/Kg	12/01/25 10:59	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	1	1.80	3.30	ug/Kg	12/01/25 10:59	PB170590
53-70-3	Dibenzo(a,h)anthracene	1.80	U	1	1.80	3.30	ug/Kg	12/01/25 10:59	PB170590
191-24-2	Benzo(g,h,i)perylene	1.70	U	1	1.70	3.30	ug/Kg	12/01/25 10:59	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.32			17 - 161	81%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			23 - 138	91%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.35			33 - 121	88%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.37			32 - 121	92%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.38			21 - 130	94%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8150							
1146-65-2	Naphthalene-d8	23000							
15067-26-2	Acenaphthene-d10	11500							
1517-22-2	Phenanthrene-d10	17600							
1719-03-5	Chrysene-d12	10900							
1520-96-3	Perylene-d12	10200							

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\BN120125\
Data File : BN038223.D
Acq On : 01 Dec 2025 10:59
Operator : RC/JU
Sample : PB170590BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170590BL

Quant Time: Dec 01 11:23:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	8151	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	22998	0.400	ng	0.00
13) Acenaphthene-d10	14.430	164	11468	0.400	ng	0.00
19) Phenanthrene-d10	17.198	188	17647	0.400	ng	# 0.01
29) Chrysene-d12	21.375	240	10944	0.400	ng	0.00
35) Perylene-d12	23.683	264	10217	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	6713	0.352	ng	0.00
5) Phenol-d6	6.937	99	7346	0.309	ng	0.00
8) Nitrobenzene-d5	8.918	82	6433	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	12.172	152	10509	0.322	ng	0.00
14) 2,4,6-Tribromophenol	15.957	330	579	0.160	ng	0.02
15) 2-Fluorobiphenyl	13.062	172	16339	0.369	ng	0.01
27) Fluoranthene-d10	19.225	212	13898	0.363	ng	0.00
31) Terphenyl-d14	19.824	244	9558	0.378	ng	0.00

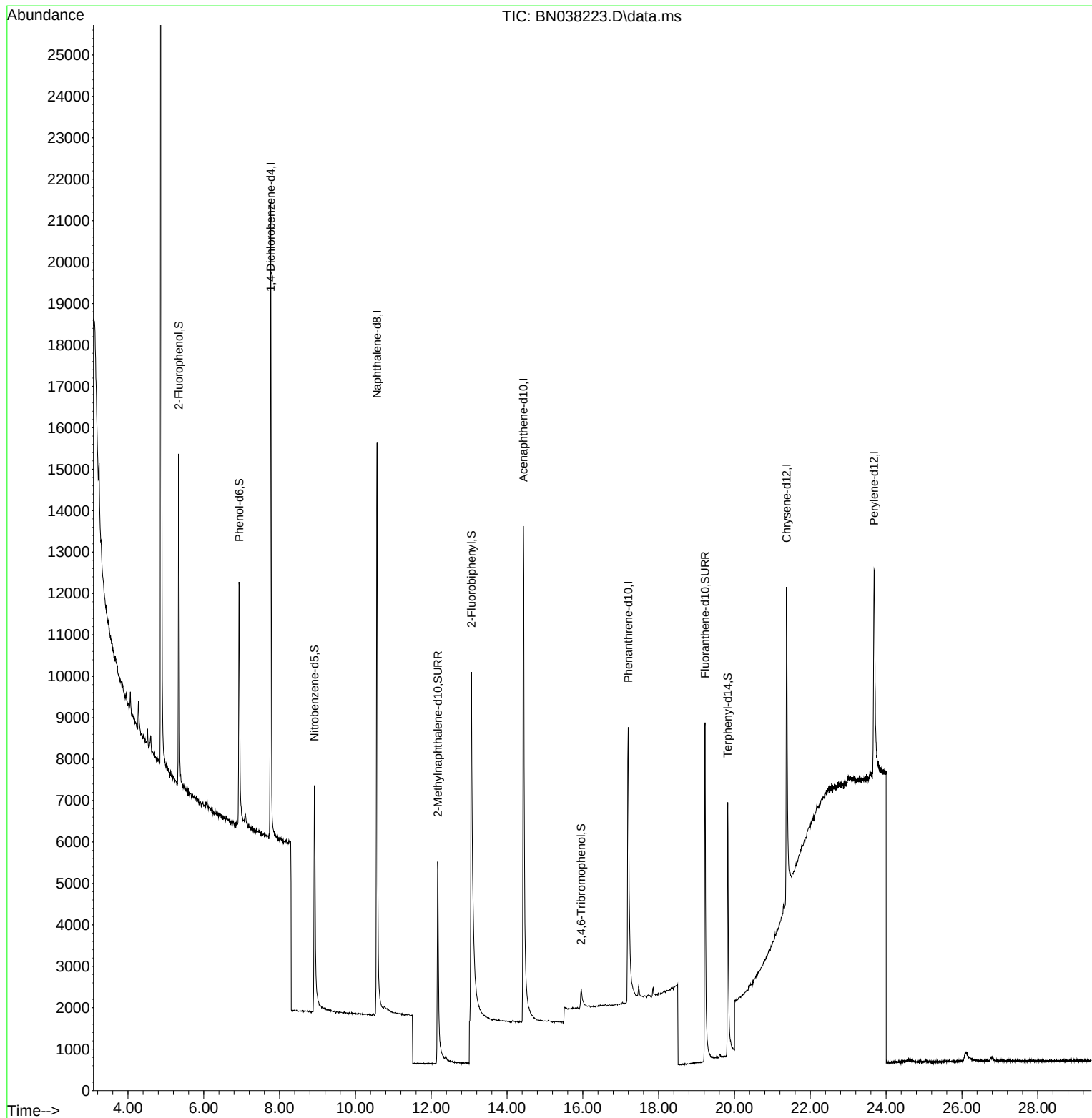
Target Compounds Qvalue

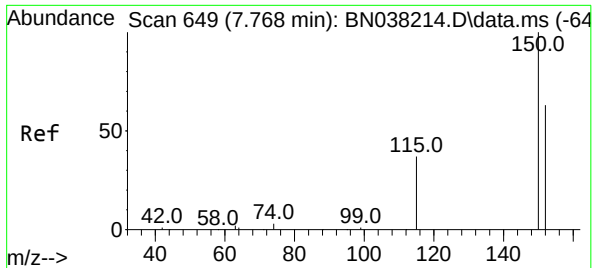
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038223.D
Acq On : 01 Dec 2025 10:59
Operator : RC/JU
Sample : PB170590BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170590BL

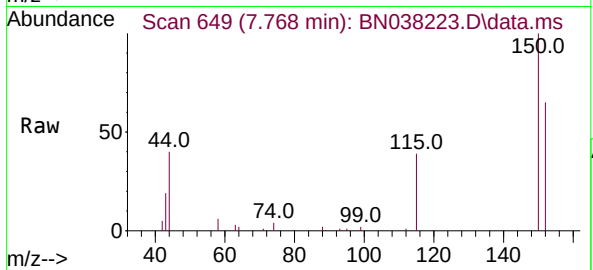
Quant Time: Dec 01 11:23:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



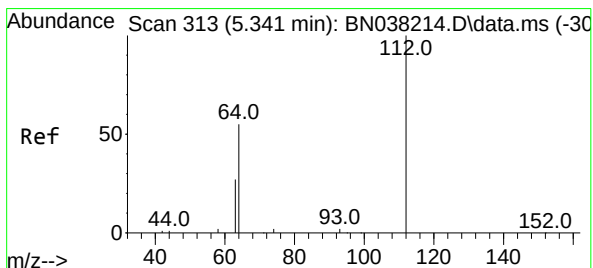
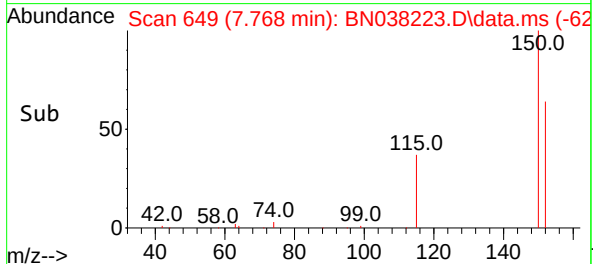
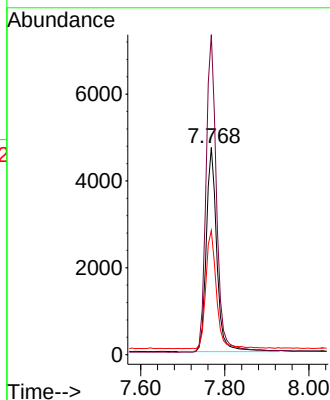


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Instrument :
BNA_N
ClientSampleId :
PB170590BL

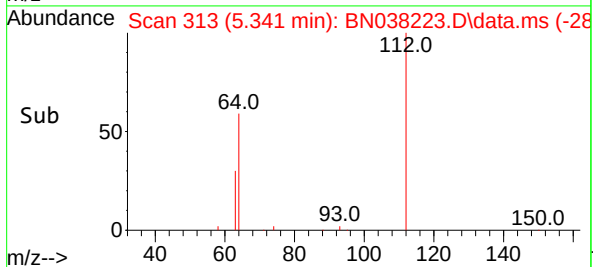
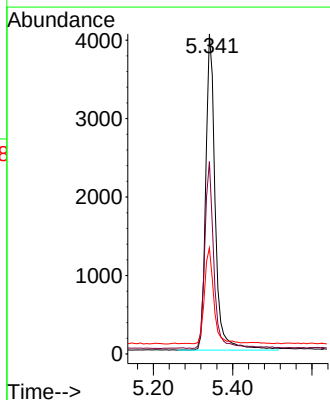
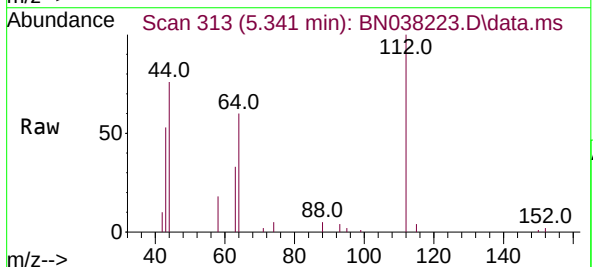


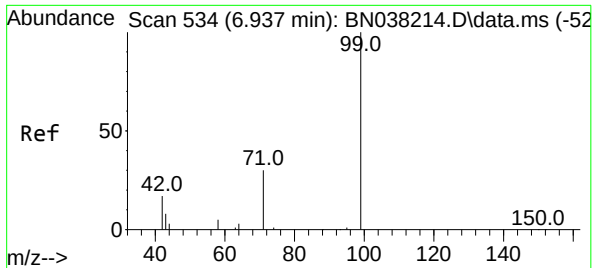
Tgt Ion:152 Resp: 8151
Ion Ratio Lower Upper
152 100
150 154.5 125.3 187.9
115 59.9 49.0 73.4



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion:112 Resp: 6713
Ion Ratio Lower Upper
112 100
64 56.6 45.0 67.4
63 29.4 23.2 34.8

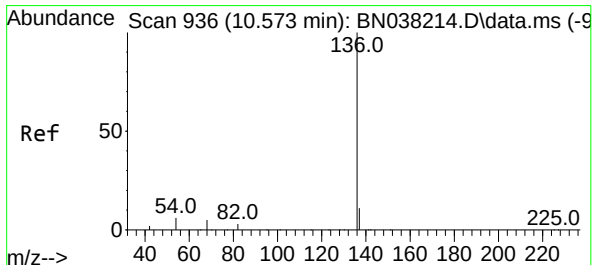
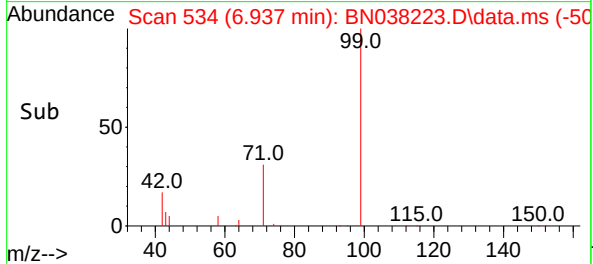
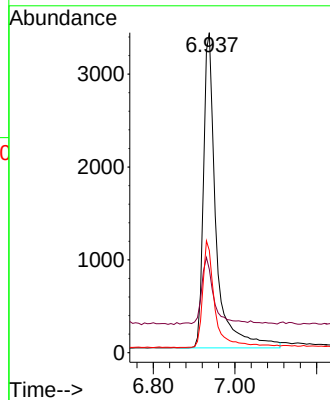
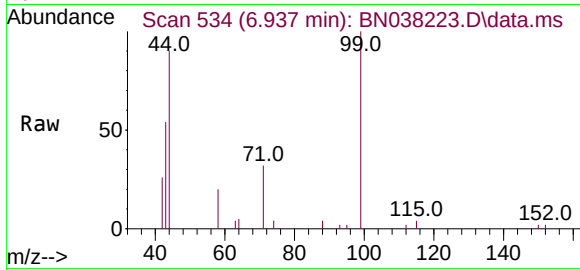




#5
Phenol-d6
Concen: 0.309 ng
RT: 6.937 min Scan# 534
Delta R.T. 0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

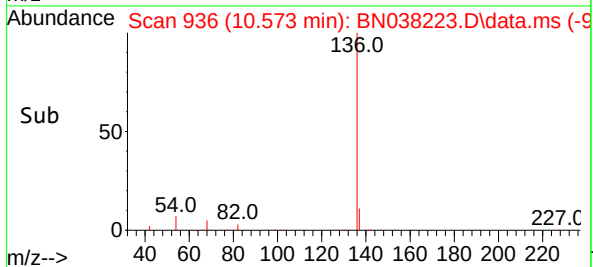
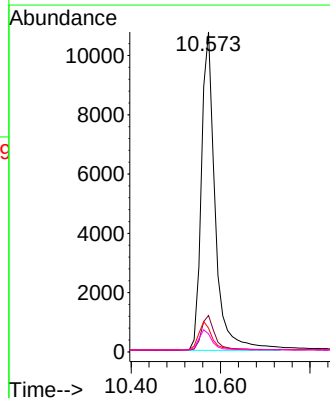
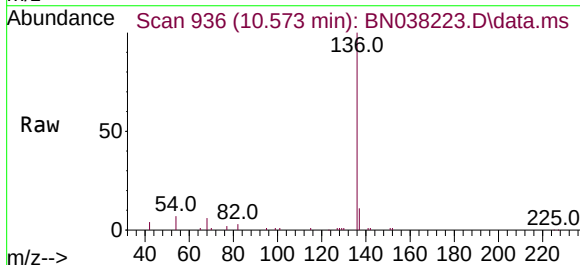
Instrument :
BNA_N
ClientSampleId :
PB170590BL

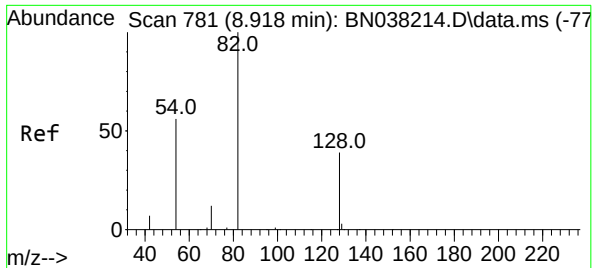
Tgt Ion:	99	Resp:	7346
Ion	Ratio	Lower	Upper
99	100		
42	20.0	17.0	25.6
71	33.1	25.4	38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion:	136	Resp:	22998
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	7.4	5.4	8.0
68	5.6	4.1	6.1

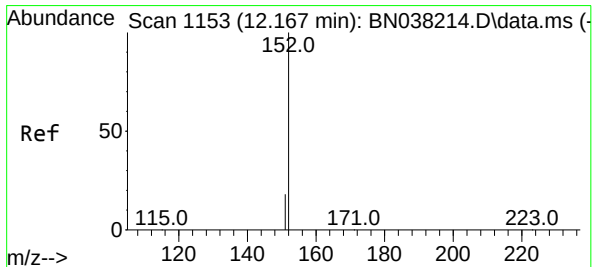
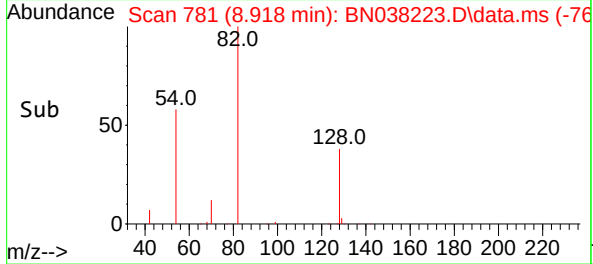
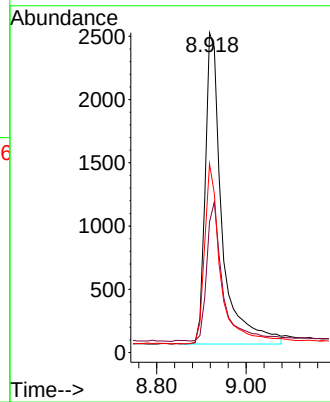
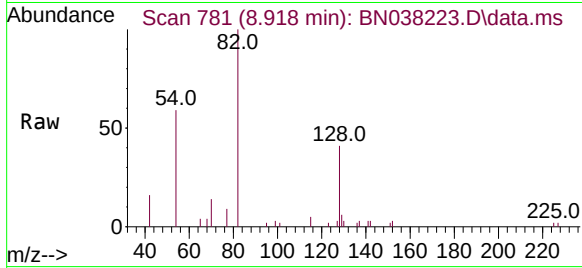




#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

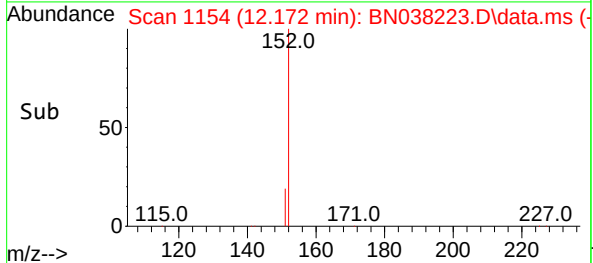
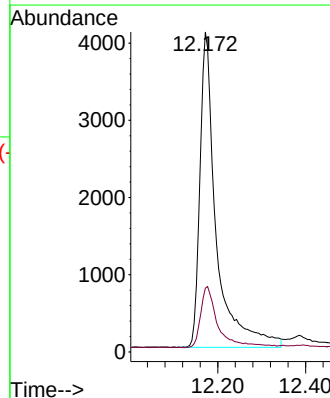
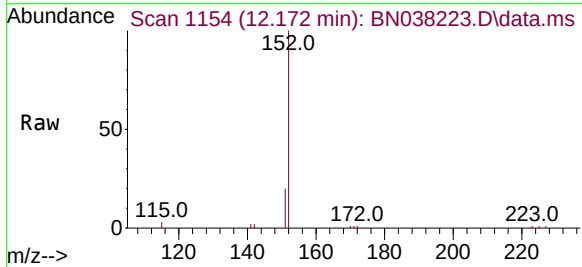
Instrument :
BNA_N
ClientSampleId :
PB170590BL

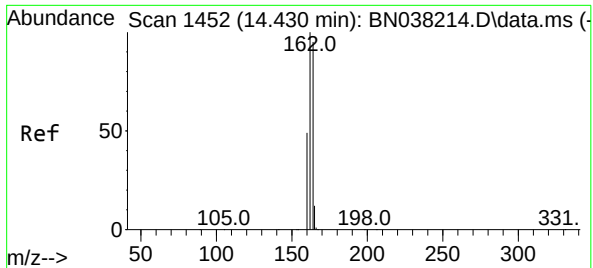
Tgt Ion:	82	Resp:	6433
Ion	Ratio	Lower	Upper
82	100		
128	40.8	32.6	48.8
54	59.0	45.4	68.0



#11
2-Methylnaphthalene-d10
Concen: 0.322 ng
RT: 12.172 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion:	152	Resp:	10509
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

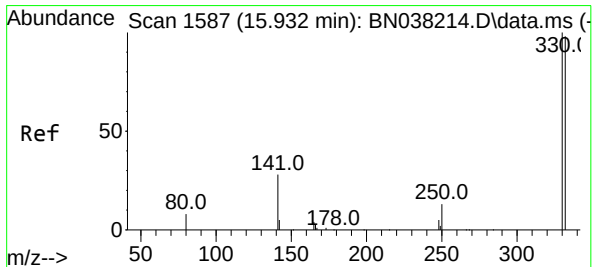
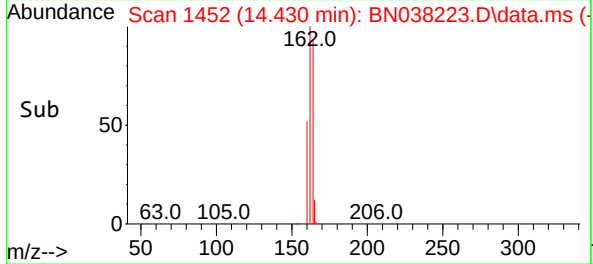
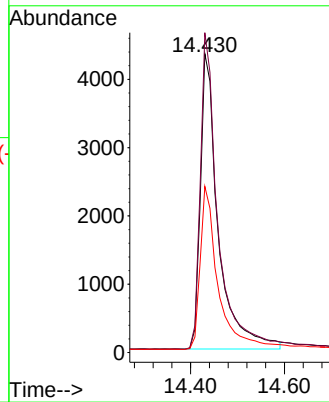
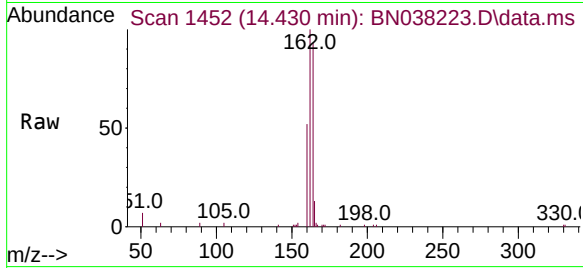




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

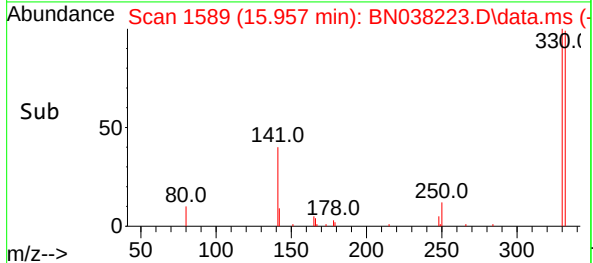
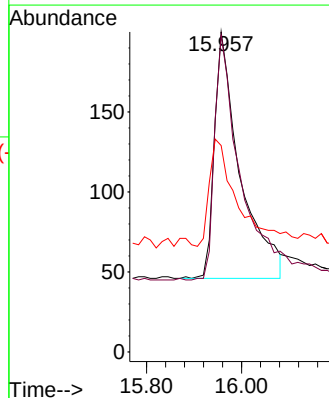
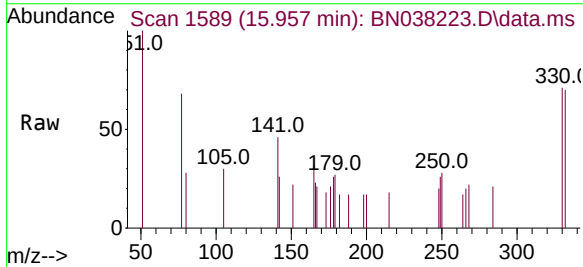
Instrument :
BNA_N
ClientSampleId :
PB170590BL

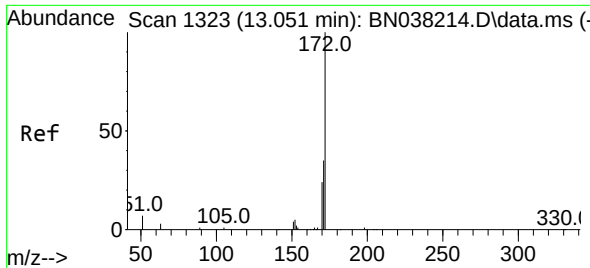
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.0	83.8	125.8
160	55.6	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 0.160 ng
RT: 15.957 min Scan# 1589
Delta R.T. 0.025 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.8	116.6
141	46.6	33.0	49.4

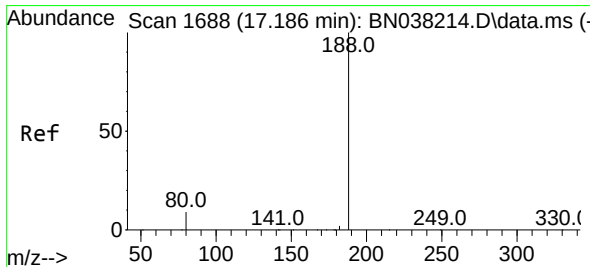
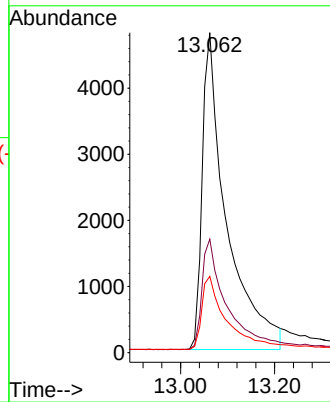
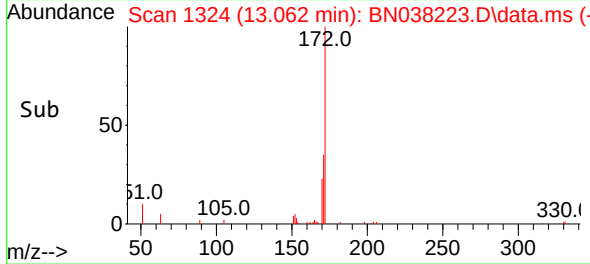
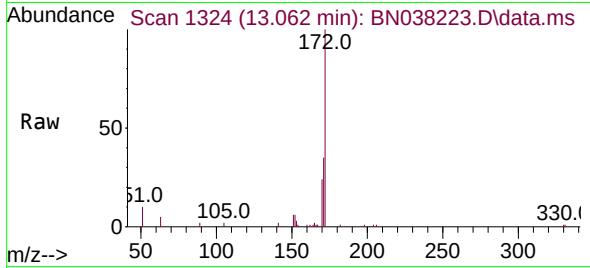




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 13.062 min Scan# 1323
Delta R.T. 0.011 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

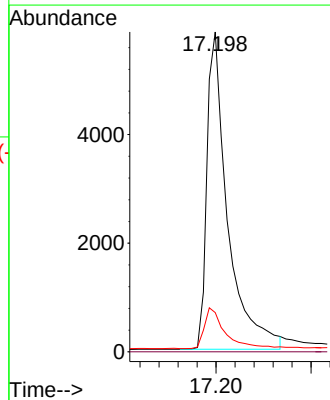
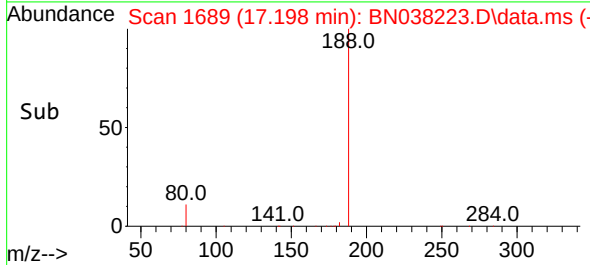
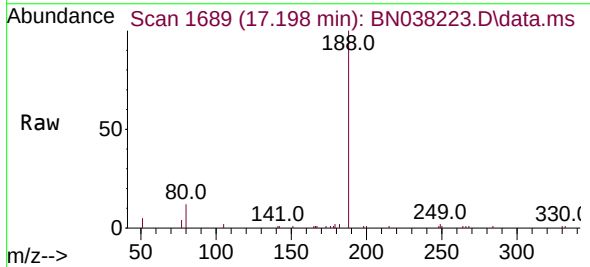
Instrument :
BNA_N
ClientSampleId :
PB170590BL

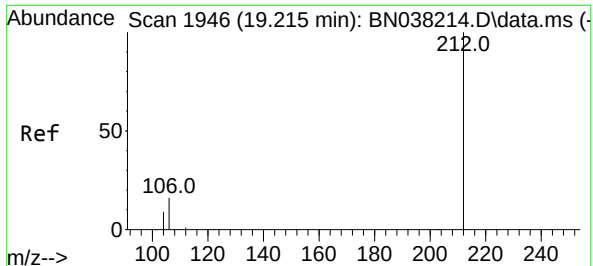
Tgt Ion:	172	Resp:	16339
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.1	42.1
170	23.8	19.1	28.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.198 min Scan# 1689
Delta R.T. 0.012 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion:	188	Resp:	17647
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.3	7.7	11.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.225 min Scan# 1948

Delta R.T. 0.009 min

Lab File: BN038223.D

Acq: 01 Dec 2025 10:59

Instrument :

BNA_N

ClientSampleId :

PB170590BL

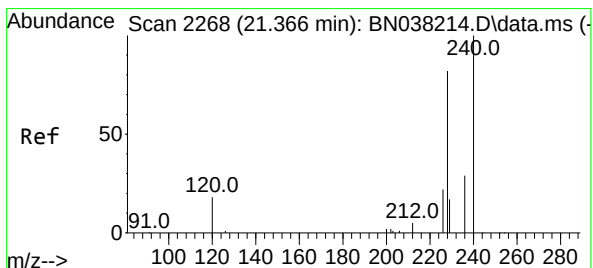
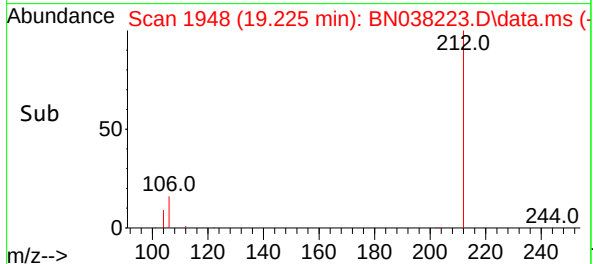
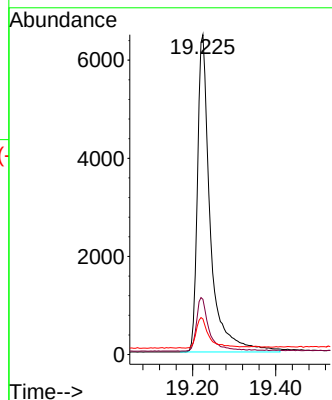
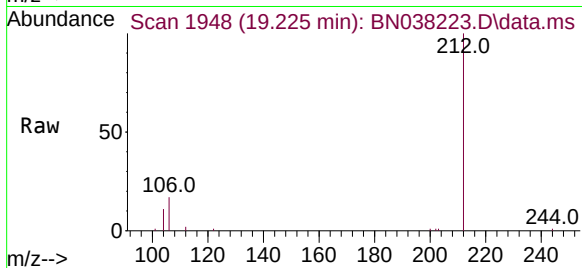
Tgt Ion:212 Resp: 13898

Ion Ratio Lower Upper

212 100

106 16.4 12.7 19.1

104 9.9 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.375 min Scan# 2269

Delta R.T. 0.009 min

Lab File: BN038223.D

Acq: 01 Dec 2025 10:59

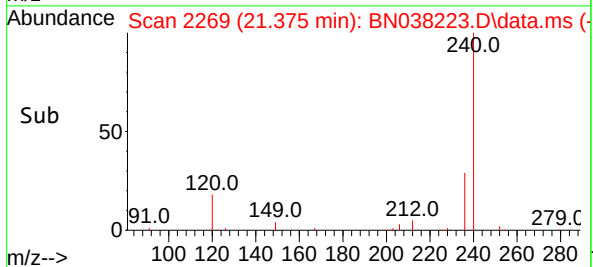
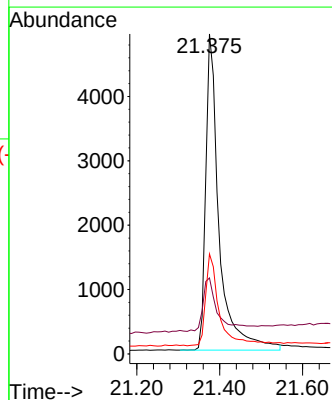
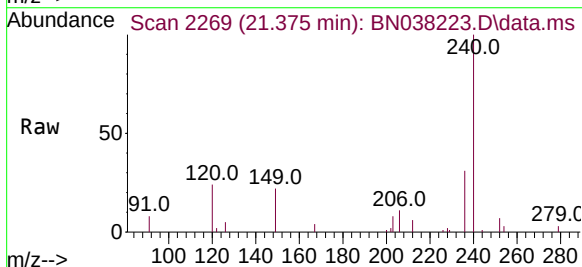
Tgt Ion:240 Resp: 10944

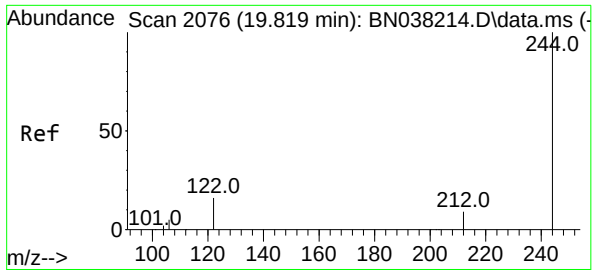
Ion Ratio Lower Upper

240 100

120 23.8 18.1 27.1

236 31.2 24.2 36.4

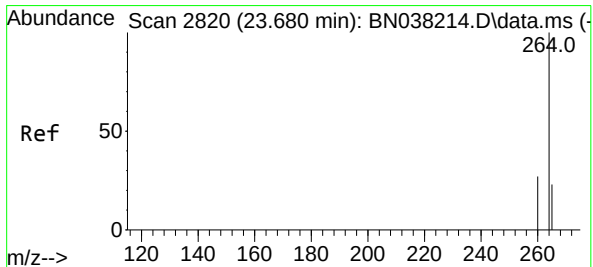
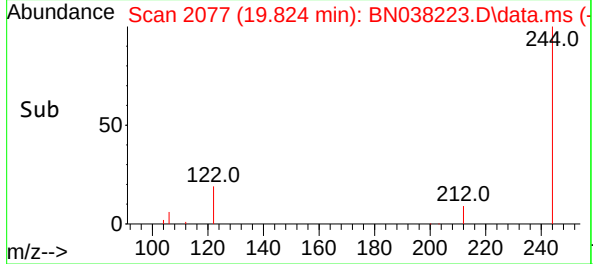
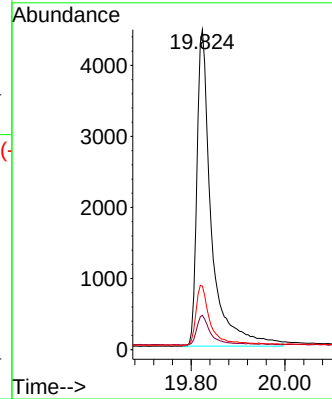
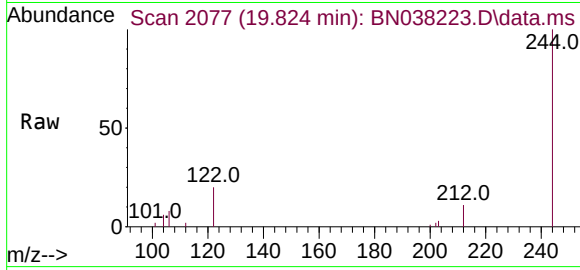




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.824 min Scan# 2077
Delta R.T. 0.005 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

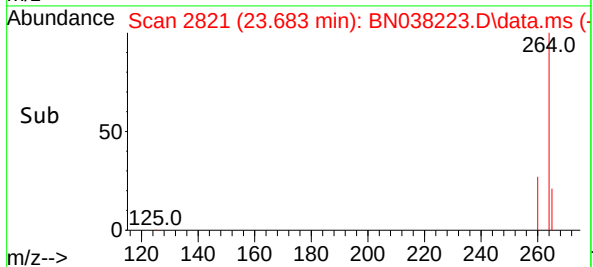
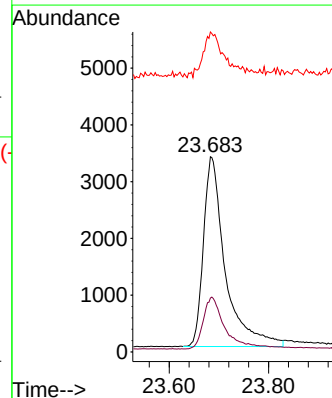
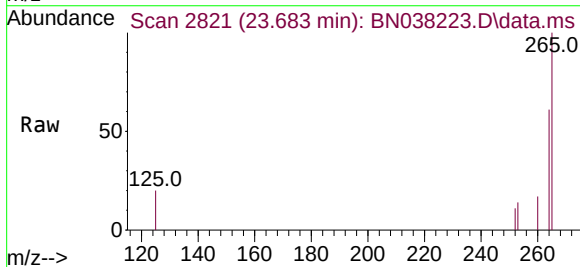
Instrument :
BNA_N
ClientSampleId :
PB170590BL

Tgt Ion:244 Resp: 9558
Ion Ratio Lower Upper
244 100
212 10.7 7.7 11.5
122 19.8 13.6 20.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 2821
Delta R.T. 0.003 min
Lab File: BN038223.D
Acq: 01 Dec 2025 10:59

Tgt Ion:264 Resp: 10217
Ion Ratio Lower Upper
264 100
260 27.6 21.7 32.5
265 164.0 98.0 147.0#





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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: PB170590BS
Lab Sample ID: PB170590BS
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.03 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected:
Date Received:
SDG No.: Q3483
Matrix: SOIL
% Solid: 100
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	12.3		1	1.20	3.30	ug/Kg	12/01/25 22:05	PB170590
91-57-6	2-Methylnaphthalene	10.2		1	1.20	3.30	ug/Kg	12/01/25 22:05	PB170590
208-96-8	Acenaphthylene	13.5		1	1.10	3.30	ug/Kg	12/01/25 22:05	PB170590
83-32-9	Acenaphthene	11.9		1	1.10	3.30	ug/Kg	12/01/25 22:05	PB170590
86-73-7	Fluorene	11.3		1	1.10	3.30	ug/Kg	12/01/25 22:05	PB170590
85-01-8	Phenanthrene	12.3		1	1.20	3.30	ug/Kg	12/01/25 22:05	PB170590
120-12-7	Anthracene	13.2		1	1.20	3.30	ug/Kg	12/01/25 22:05	PB170590
206-44-0	Fluoranthene	13.9		1	1.20	3.30	ug/Kg	12/01/25 22:05	PB170590
129-00-0	Pyrene	12.0		1	1.10	3.30	ug/Kg	12/01/25 22:05	PB170590
56-55-3	Benzo(a)anthracene	14.2		1	1.30	3.30	ug/Kg	12/01/25 22:05	PB170590
218-01-9	Chrysene	12.5		1	1.40	3.30	ug/Kg	12/01/25 22:05	PB170590
205-99-2	Benzo(b)fluoranthene	11.5		1	1.60	3.30	ug/Kg	12/01/25 22:05	PB170590
207-08-9	Benzo(k)fluoranthene	11.6		1	1.80	3.30	ug/Kg	12/01/25 22:05	PB170590
50-32-8	Benzo(a)pyrene	13.1		1	1.40	3.30	ug/Kg	12/01/25 22:05	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	13.1		1	1.80	3.30	ug/Kg	12/01/25 22:05	PB170590
53-70-3	Dibenzo(a,h)anthracene	13.5		1	1.80	3.30	ug/Kg	12/01/25 22:05	PB170590
191-24-2	Benzo(g,h,i)perylene	12.1		1	1.70	3.30	ug/Kg	12/01/25 22:05	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.38			17 - 161	94%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.44			23 - 138	109%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.43			33 - 121	106%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.49	*		32 - 121	122%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.37			21 - 130	92%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	9120							
1146-65-2	Naphthalene-d8	25100							
15067-26-2	Acenaphthene-d10	10800							
1517-22-2	Phenanthrene-d10	16000							
1719-03-5	Chrysene-d12	14400							
1520-96-3	Perylene-d12	16200							

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\BN120125\
 Data File : BN038237.D
 Acq On : 01 Dec 2025 22:05
 Operator : RC/JU
 Sample : PB170590BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170590BS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Dec 02 01:10:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	9117	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	25112	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	10775	0.400	ng	0.00
19) Phenanthrene-d10	17.173	188	15967	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	14394	0.400	ng	0.00
35) Perylene-d12	23.674	264	16168	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	9197	0.432	ng	0.00
5) Phenol-d6	6.930	99	10150	0.381	ng	0.00
8) Nitrobenzene-d5	8.918	82	8548	0.426	ng	0.00
11) 2-Methylnaphthalene-d10	12.162	152	13361m	0.375	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1322	0.390	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	20282	0.487	ng	-0.01
27) Fluoranthene-d10	19.215	212	15069	0.435	ng	0.00
31) Terphenyl-d14	19.815	244	12252	0.369	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.254	88	3127	0.326	ng	# 63
3) n-Nitrosodimethylamine	3.557	42	4554	0.384	ng	# 92
6) bis(2-Chloroethyl)ether	7.183	93	9789	0.384	ng	96
9) Naphthalene	10.616	128	25718	0.369	ng	100
10) Hexachlorobutadiene	10.915	225	4701	0.396	ng	# 98
12) 2-Methylnaphthalene	12.238	142	14101	0.307	ng	98
16) Acenaphthylene	14.142	152	19530	0.405	ng	99
17) Acenaphthene	14.484	154	11991	0.357	ng	98
18) Fluorene	15.478	166	14689	0.338	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	154	0.263	ng	# 32
21) 4-Bromophenyl-phenylether	16.379	248	4196	0.379	ng	97
22) Hexachlorobenzene	16.491	284	4745	0.349	ng	99
23) Atrazine	16.640	200	3106	0.440	ng	# 92
24) Pentachlorophenol	16.838	266	3407	0.914	ng	99
25) Phenanthrene	17.223	178	18519	0.369	ng	100
26) Anthracene	17.310	178	16913	0.395	ng	99
28) Fluoranthene	19.243	202	20125	0.417	ng	98
30) Pyrene	19.606	202	25986	0.361	ng	# 78
32) Benzo(a)anthracene	21.349	228	20794	0.427	ng	96
33) Chrysene	21.402	228	21620	0.376	ng	95
34) Bis(2-ethylhexyl)phtha...	21.286	149	15644	0.586	ng	98
36) Indeno(1,2,3-cd)pyrene	26.022	276	29356	0.392	ng	97
37) Benzo(b)fluoranthene	22.975	252	22824	0.344	ng	96
38) Benzo(k)fluoranthene	23.022	252	24101	0.349	ng	96
39) Benzo(a)pyrene	23.572	252	21857	0.393	ng	99
40) Dibenzo(a,h)anthracene	26.042	278	22900	0.404	ng	96
41) Benzo(g,h,i)perylene	26.741	276	24599	0.363	ng	97

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

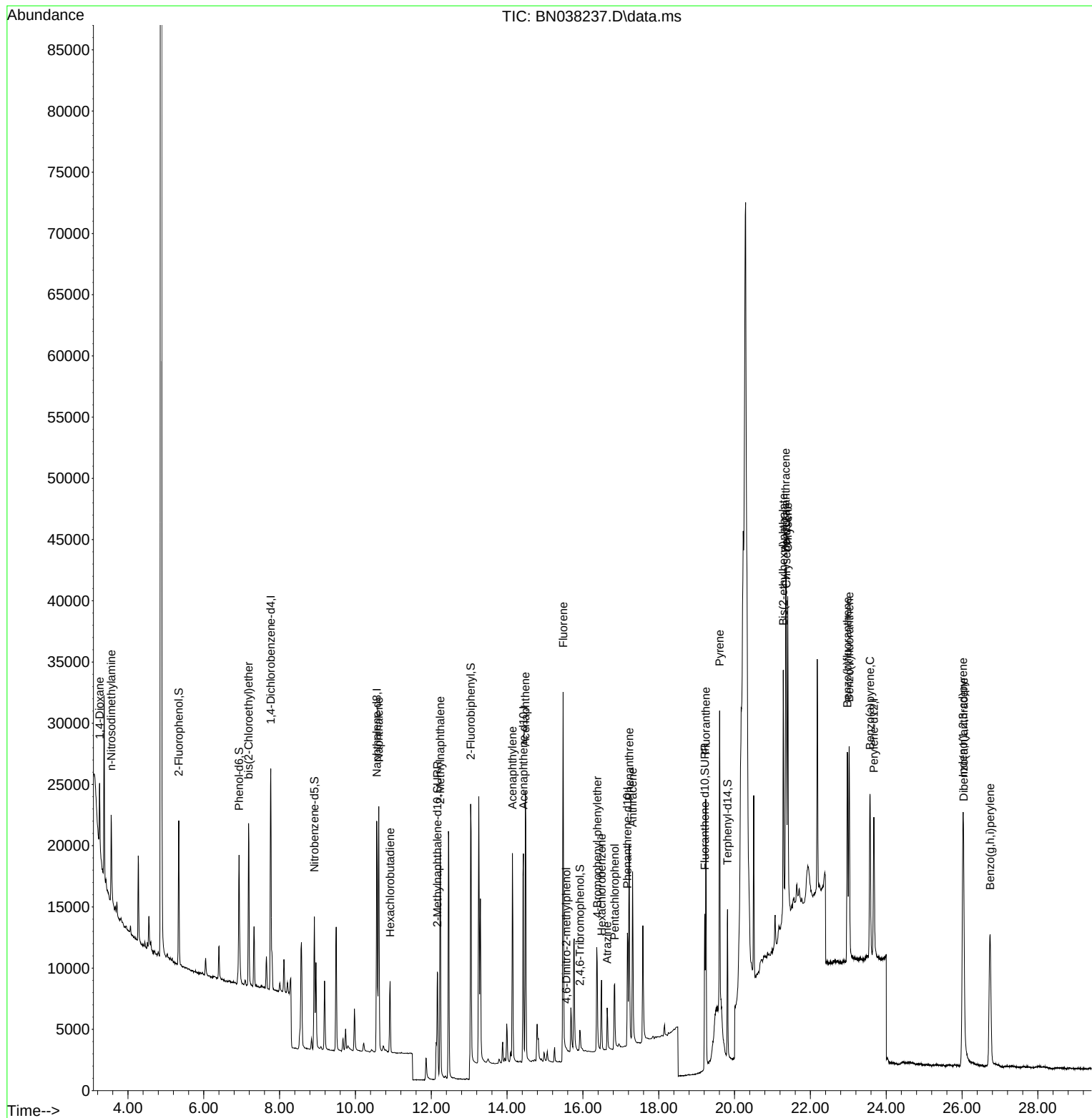
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
 Data File : BN038237.D
 Acq On : 01 Dec 2025 22:05
 Operator : RC/JU
 Sample : PB170590BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

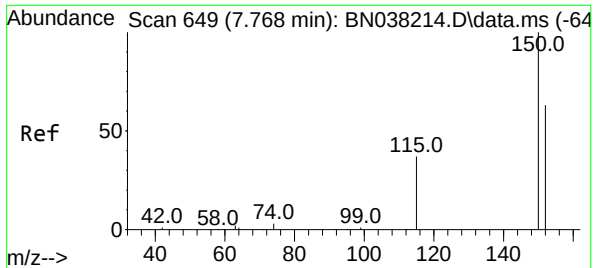
Instrument :
 BNA_N
 ClientSampleId :
 PB170590BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Dec 02 01:10:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration





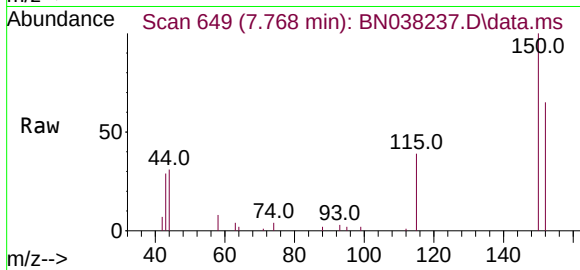
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

PB170590BS

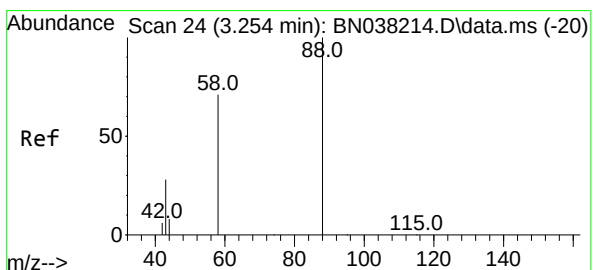
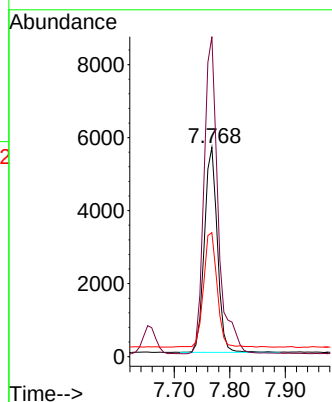
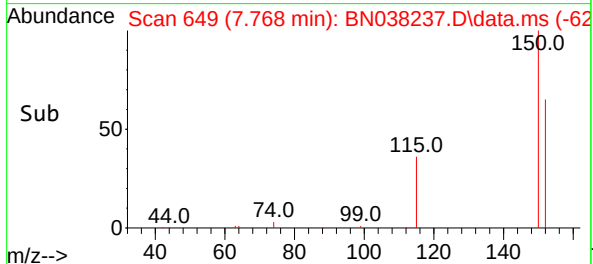


Tgt Ion: 152 Resp: 9117
Ion Ratio Lower Upper
152 100
150 153.0 125.3 187.9
115 59.2 49.0 73.4

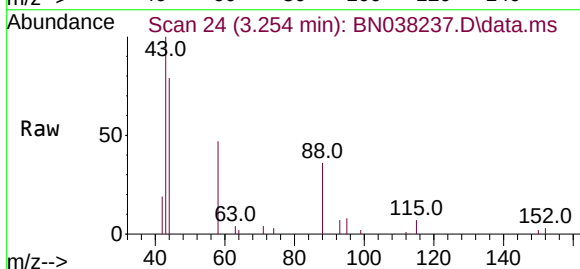
Manual Integrations

APPROVED

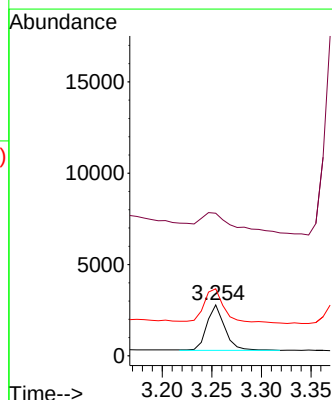
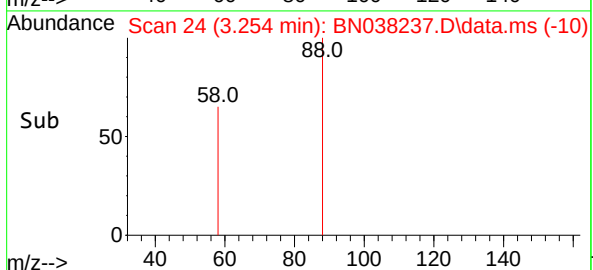
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

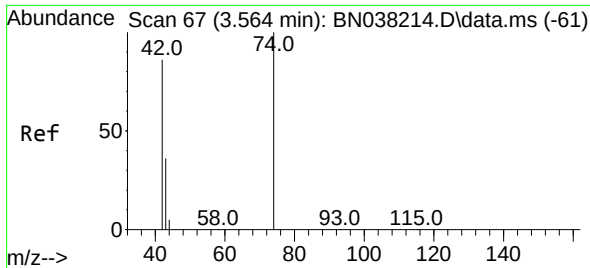


#2
1,4-Dioxane
Concen: 0.326 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05



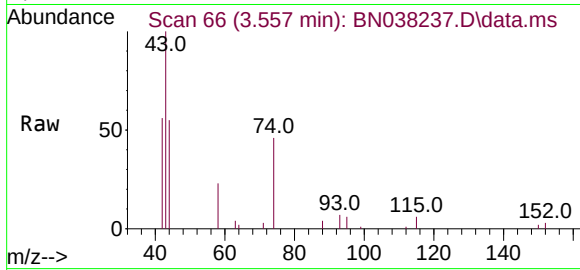
Tgt Ion: 88 Resp: 3127
Ion Ratio Lower Upper
88 100
43 77.0 24.8 37.2#
58 92.1 61.1 91.7#





#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.557 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

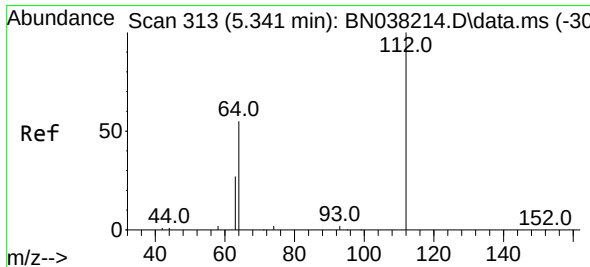
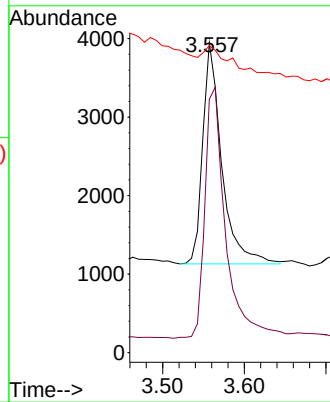
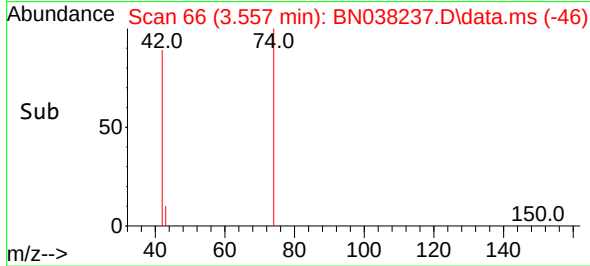
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion: 42 Resp: 4554
Ion Ratio Lower Upper
42 100
74 124.4 96.2 144.2
44 30.0 8.0 12.0

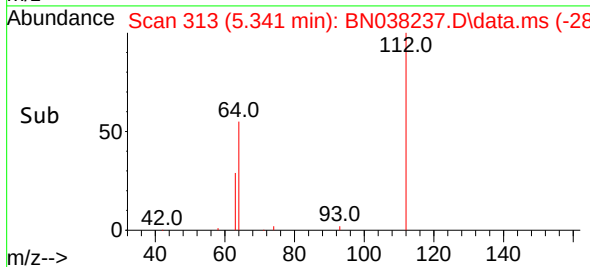
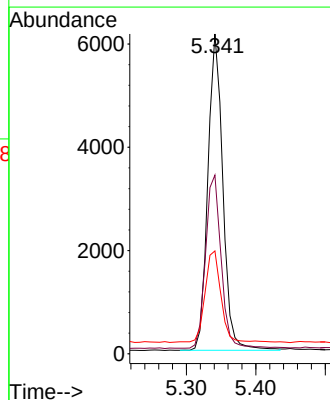
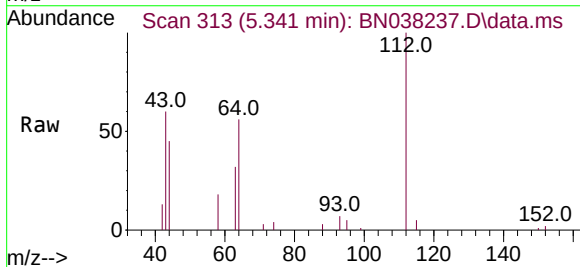
Manual Integrations
APPROVED

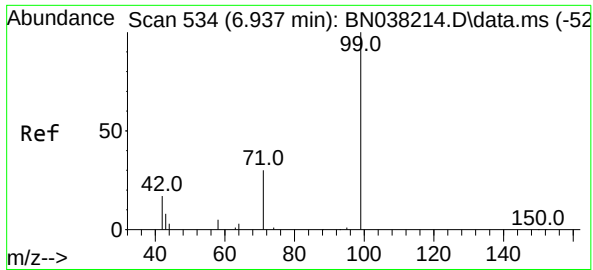
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#4
2-Fluorophenol
Concen: 0.432 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

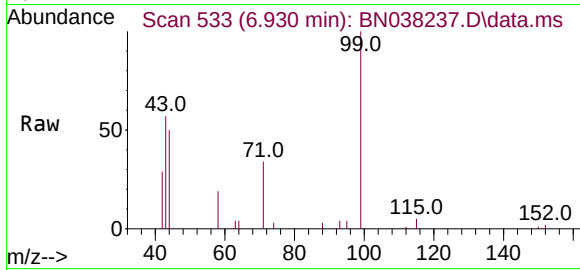
Tgt Ion:112 Resp: 9197
Ion Ratio Lower Upper
112 100
64 57.0 45.0 67.4
63 31.2 23.2 34.8





#5
Phenol-d6
Concen: 0.381 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

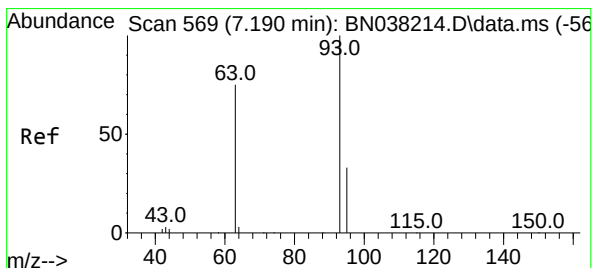
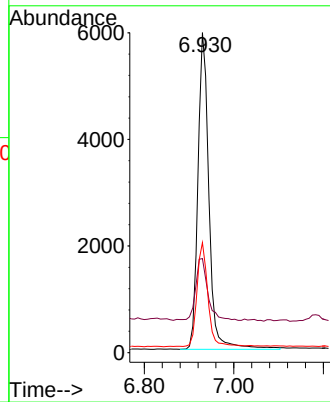
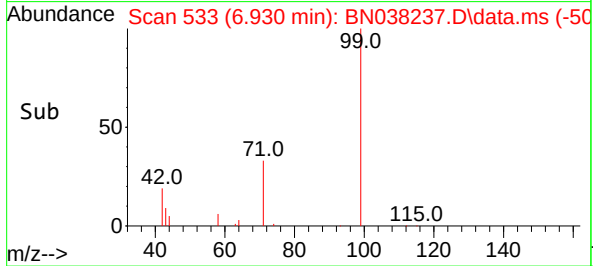
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion: 99 Resp: 10150
Ion Ratio Lower Upper
99 100
42 22.1 17.0 25.6
71 32.8 25.4 38.2

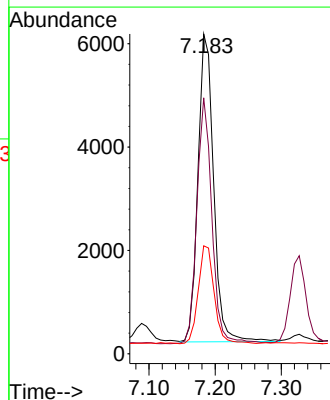
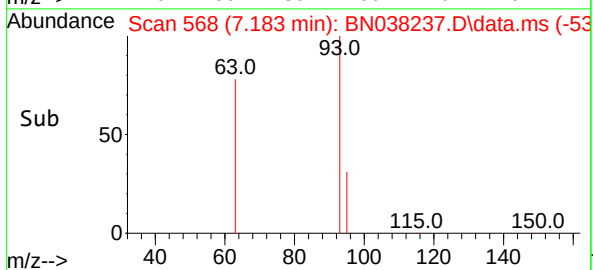
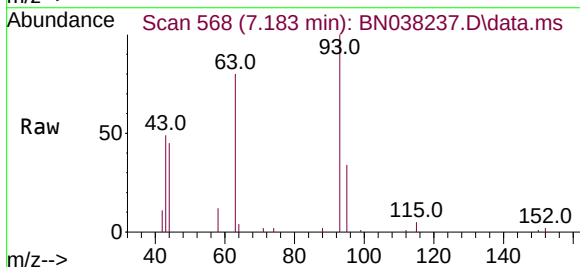
Manual Integrations
APPROVED

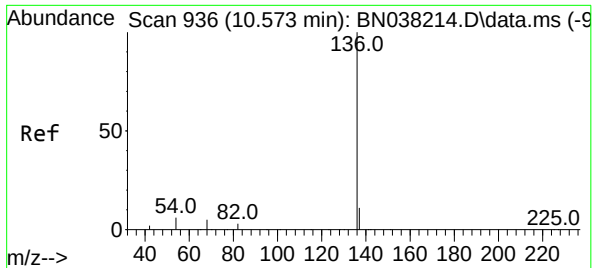
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Tgt Ion: 93 Resp: 9789
Ion Ratio Lower Upper
93 100
63 76.8 58.1 87.1
95 32.5 25.1 37.7





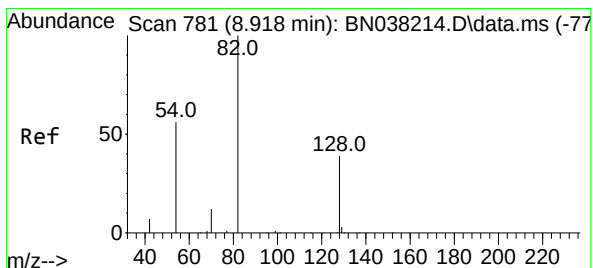
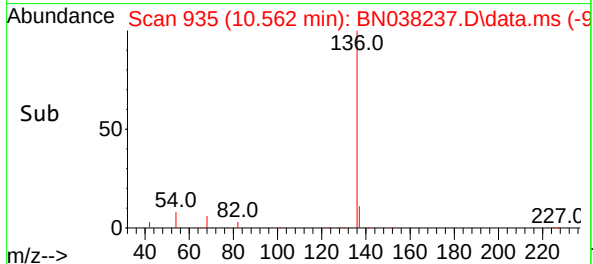
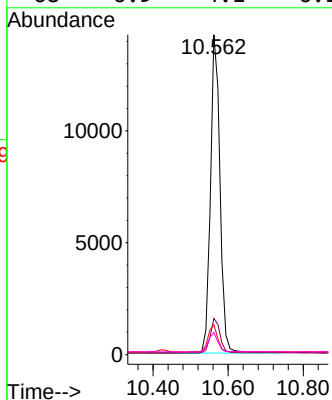
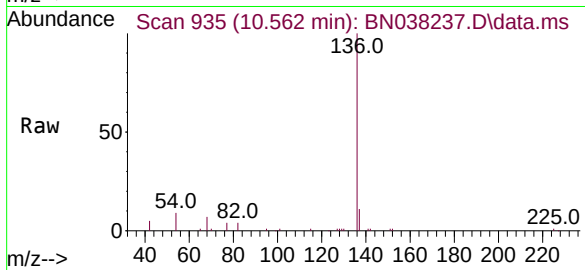
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Instrument :
BNA_N
ClientSampleId :
PB170590BS

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	9.3	5.4	8.0
68	6.9	4.1	6.1

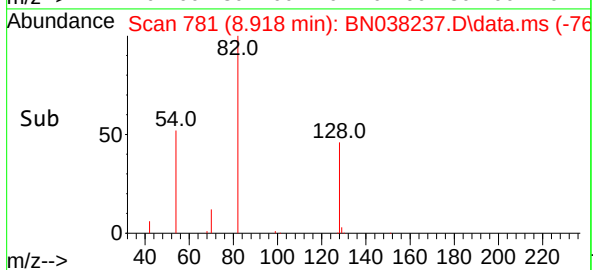
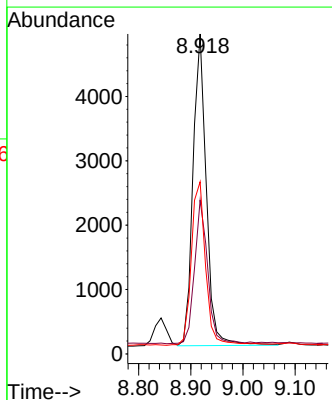
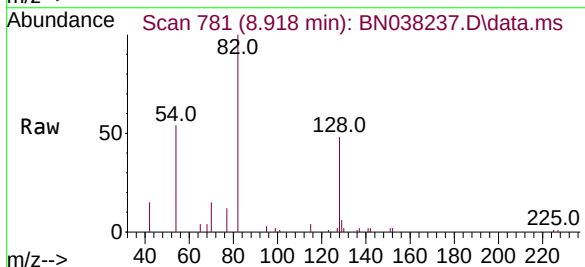
Manual Integrations
APPROVED

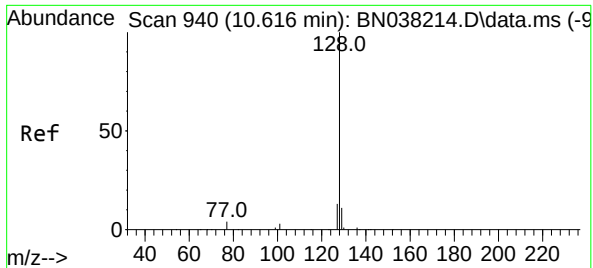
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#8
Nitrobenzene-d5
Concen: 0.426 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

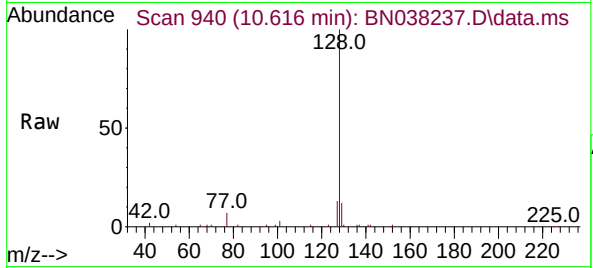
Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.1	32.6	48.8
54	53.8	45.4	68.0





#9
Naphthalene
Concen: 0.369 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

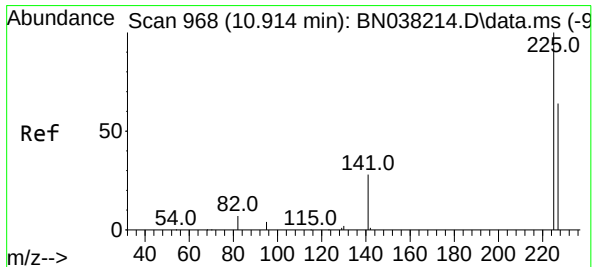
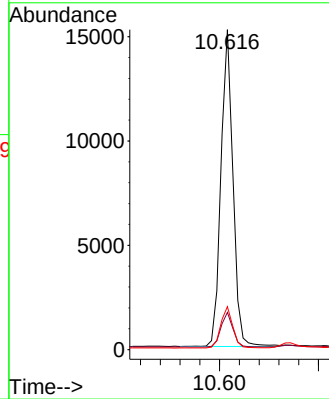
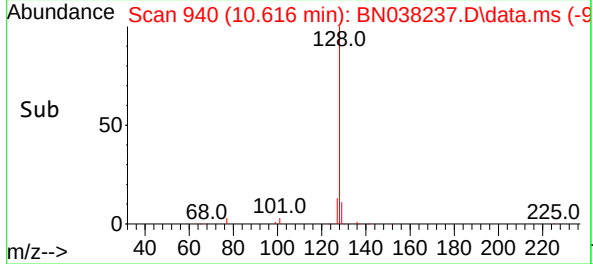
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion:128 Resp: 25718
Ion Ratio Lower Upper
128 100
129 11.6 9.1 13.7
127 13.4 10.6 16.0

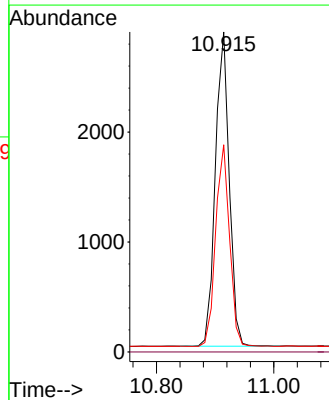
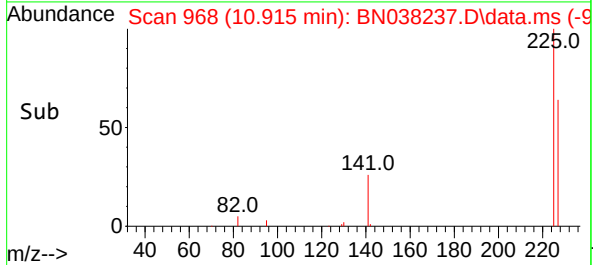
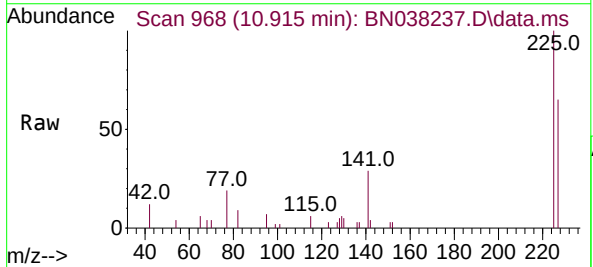
Manual Integrations
APPROVED

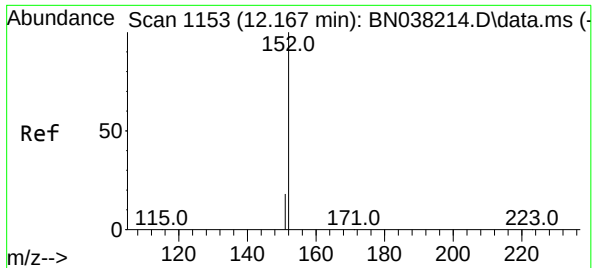
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

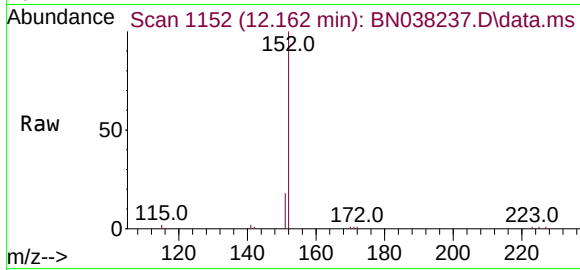
Tgt Ion:225 Resp: 4701
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 50.5 75.7





#11
2-Methylnaphthalene-d10
Concen: 0.375 ng m
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

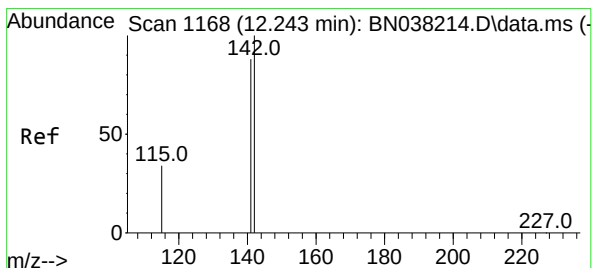
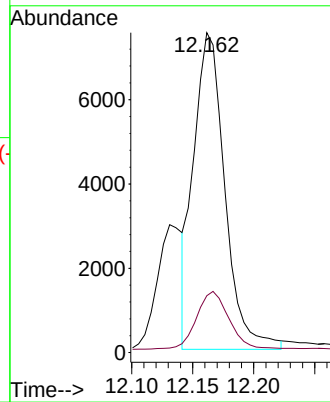
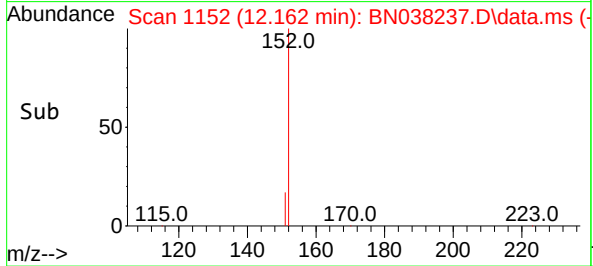
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion:152 Resp: 1336
Ion Ratio Lower Upper
152 100
151 19.3 16.7 25.1

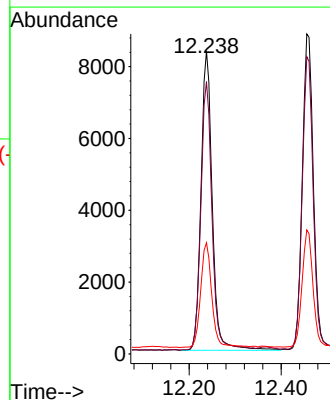
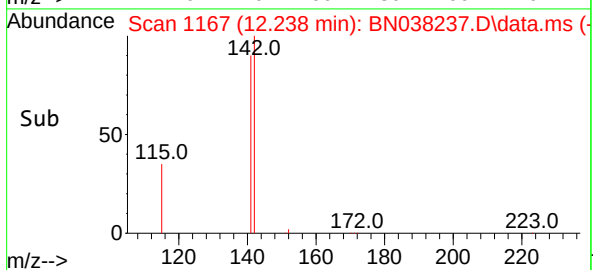
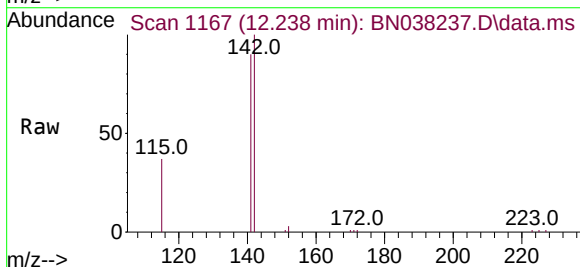
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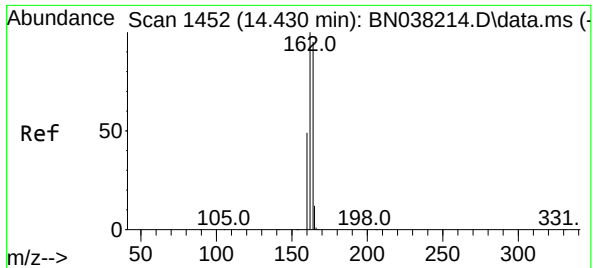
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#12
2-Methylnaphthalene
Concen: 0.307 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

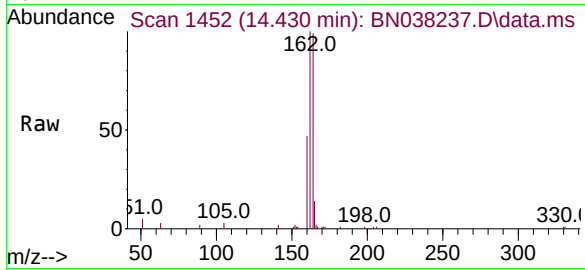
Tgt Ion:142 Resp: 14101
Ion Ratio Lower Upper
142 100
141 89.9 70.9 106.3
115 36.7 27.7 41.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

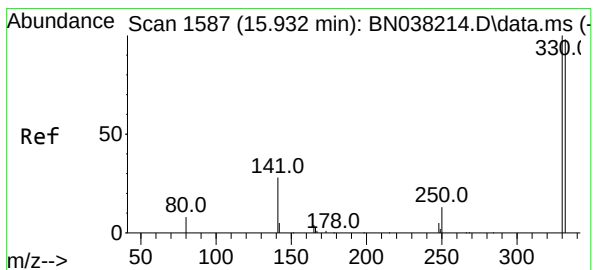
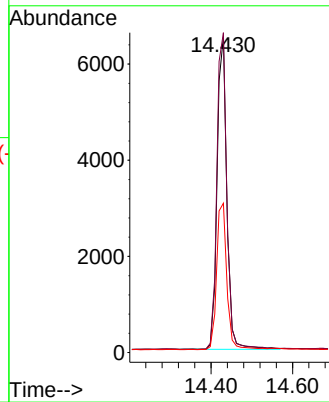
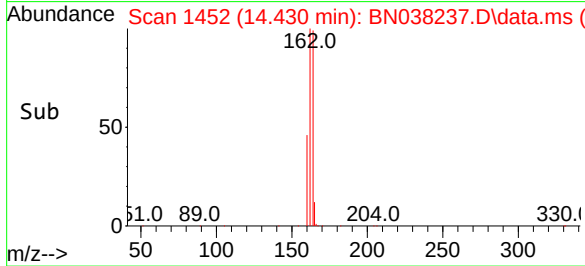
Instrument :
BNA_N
ClientSampleId :
PB170590BS



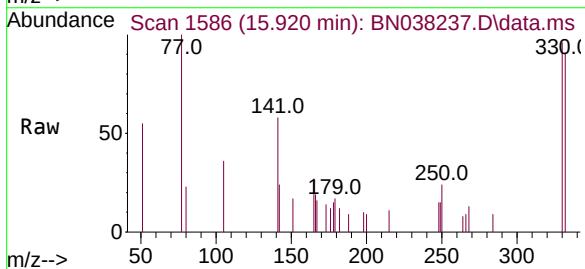
Tgt Ion:164 Resp: 10775
Ion Ratio Lower Upper
164 100
162 101.4 83.8 125.8
160 47.3 41.6 62.4

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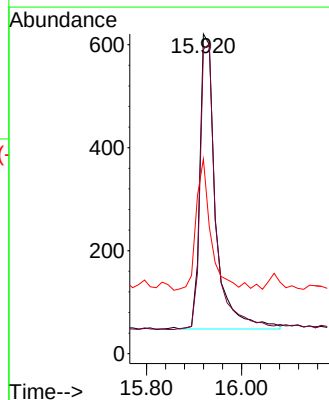
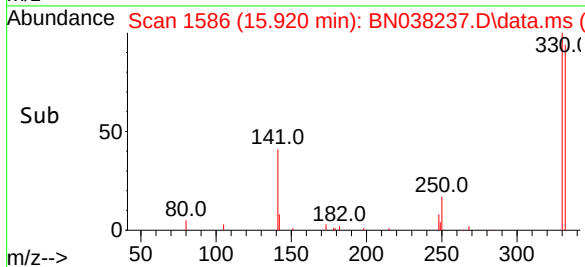
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

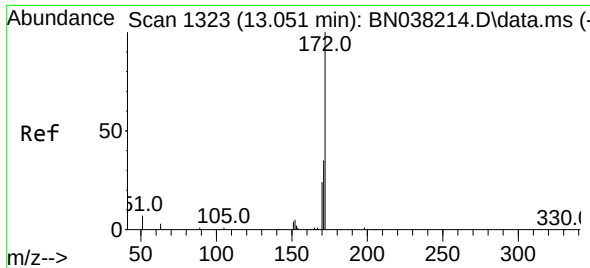


#14
2,4,6-Tribromophenol
Concen: 0.390 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05



Tgt Ion:330 Resp: 1322
Ion Ratio Lower Upper
330 100
332 97.1 77.8 116.6
141 40.7 33.0 49.4





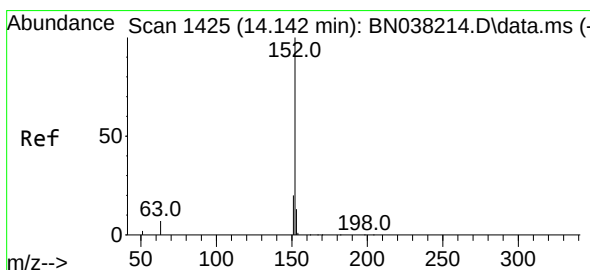
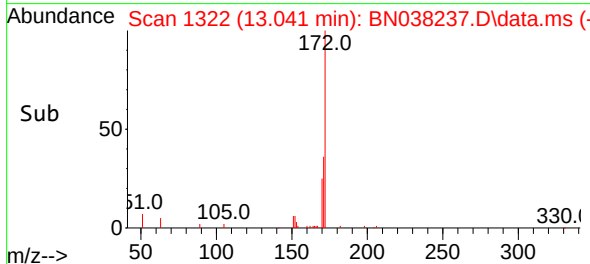
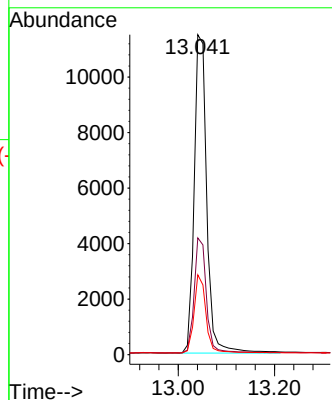
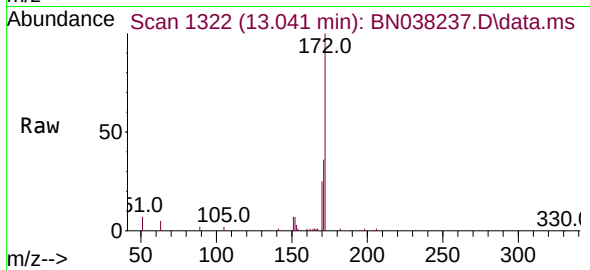
#15
2-Fluorobiphenyl
Concen: 0.487 ng
RT: 13.041 min Scan# 1323
Delta R.T. -0.011 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Instrument :
BNA_N
ClientSampleId :
PB170590BS

Tgt Ion:172 Resp: 20282
Ion Ratio Lower Upper
172 100
171 36.5 28.1 42.1
170 24.9 19.1 28.7

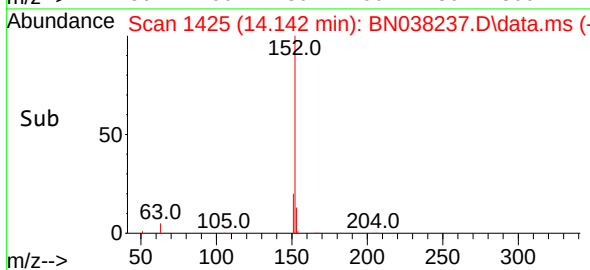
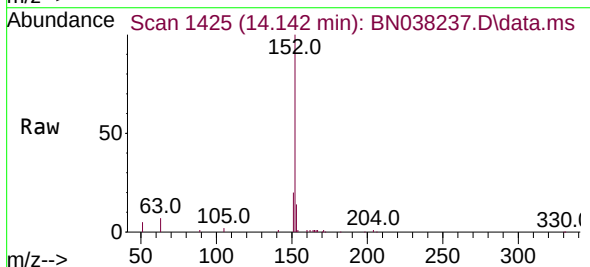
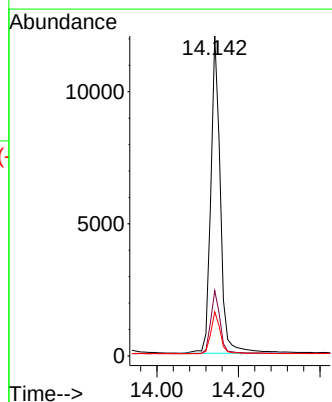
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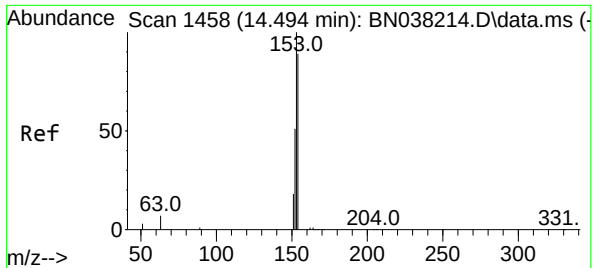
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#16
Acenaphthylene
Concen: 0.405 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

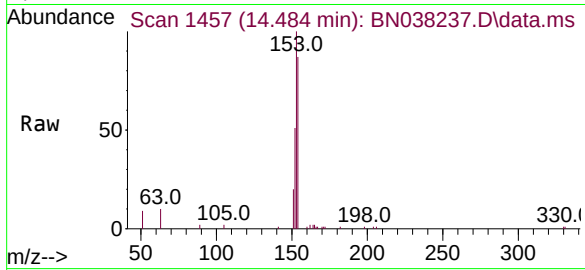
Tgt Ion:152 Resp: 19530
Ion Ratio Lower Upper
152 100
151 19.8 15.6 23.4
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.357 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

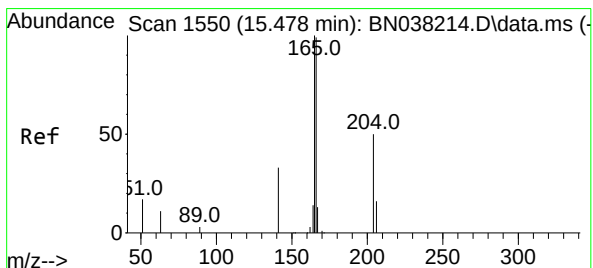
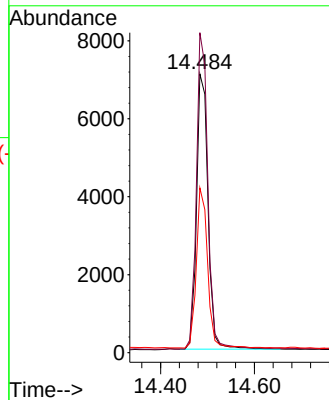
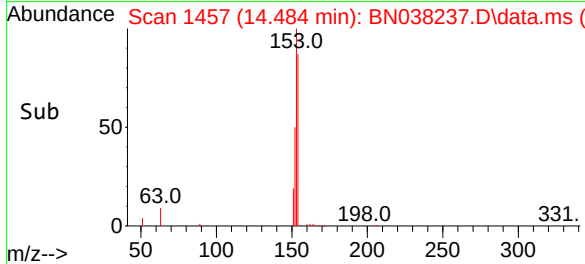
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion:154 Resp: 11991
Ion Ratio Lower Upper
154 100
153 115.2 91.1 136.7
152 57.3 48.2 72.2

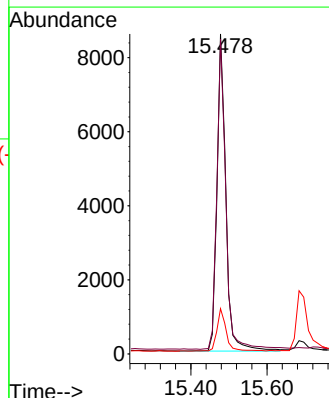
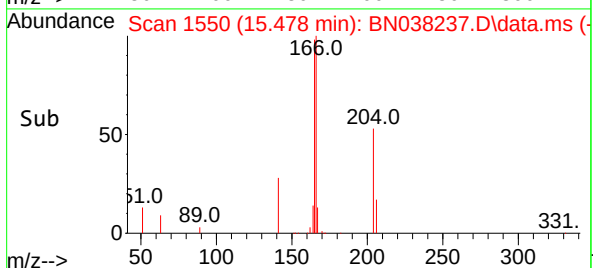
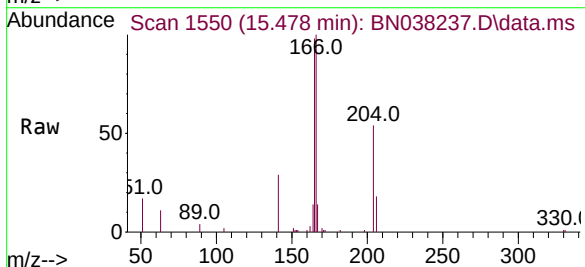
Manual Integrations
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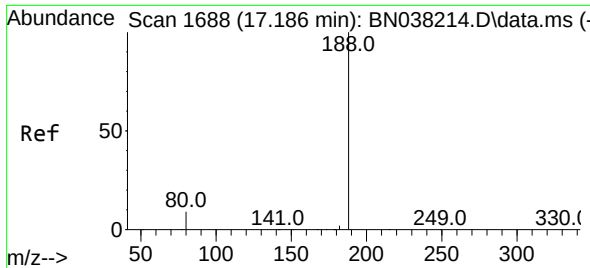
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#18
Fluorene
Concen: 0.338 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Tgt Ion:166 Resp: 14689
Ion Ratio Lower Upper
166 100
165 99.0 78.7 118.1
167 13.5 10.9 16.3





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.173 min Scan# 1687

Delta R.T. -0.012 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

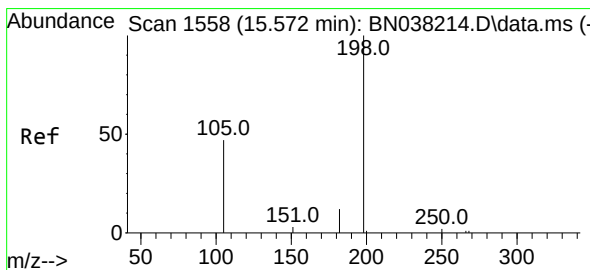
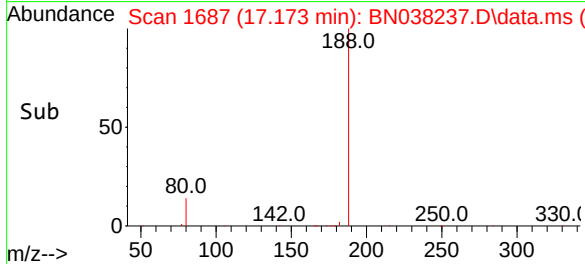
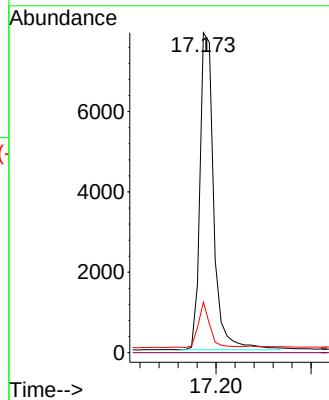
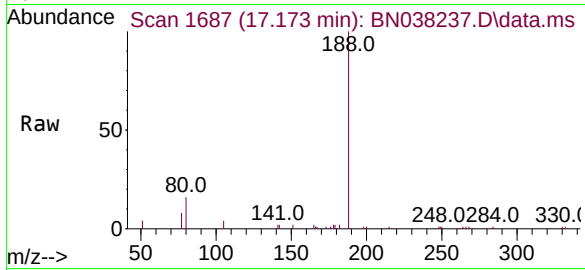
PB170590BS

Tgt Ion:	188	Resp:	1596
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.8	7.7	11.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.263 ng

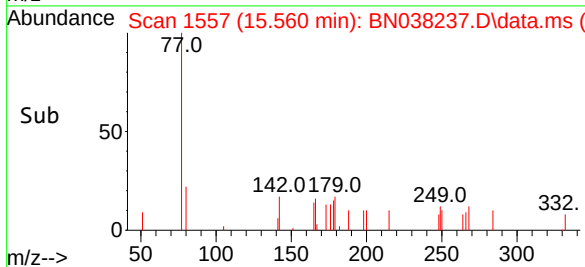
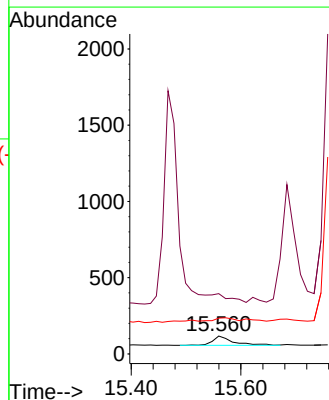
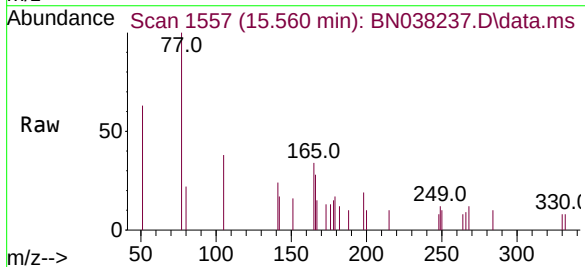
RT: 15.560 min Scan# 1557

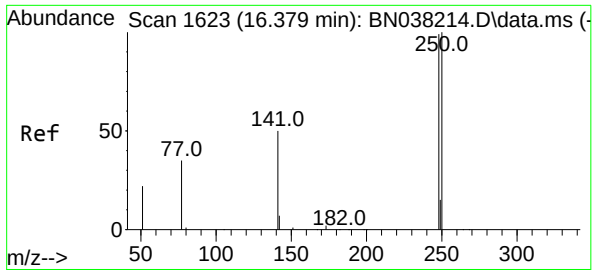
Delta R.T. -0.012 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

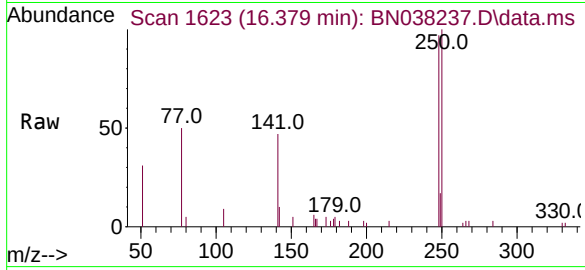
Tgt Ion:	198	Resp:	154
Ion Ratio	Lower	Upper	
198	100		
51	337.6	205.1	307.7#
105	200.9	61.6	92.4#





#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

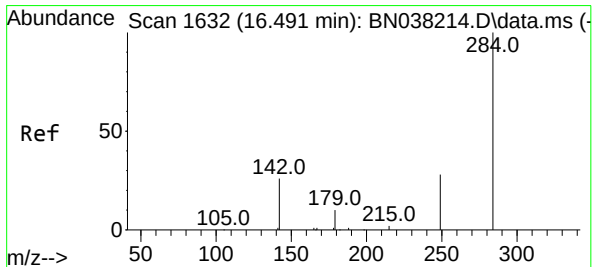
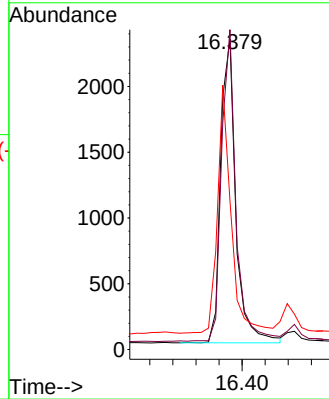
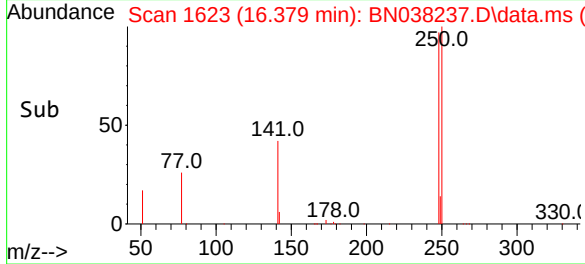
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion:248 Resp: 4196
Ion Ratio Lower Upper
248 100
250 103.0 80.8 121.2
141 47.9 41.0 61.6

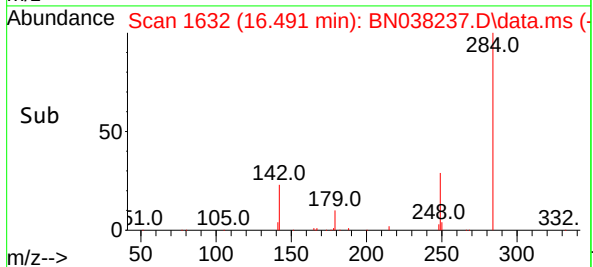
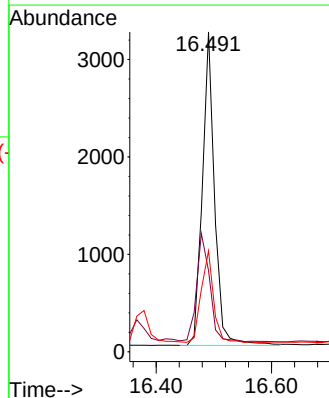
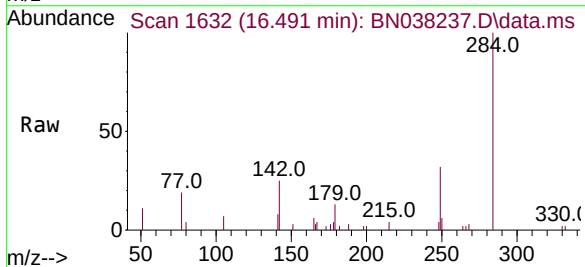
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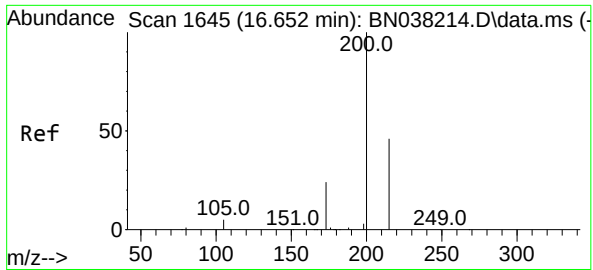
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#22
Hexachlorobenzene
Concen: 0.349 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

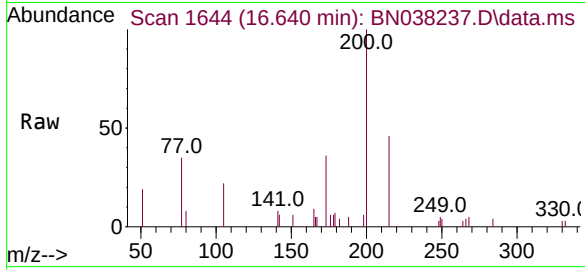
Tgt Ion:284 Resp: 4745
Ion Ratio Lower Upper
284 100
142 37.9 30.5 45.7
249 30.2 23.8 35.8





#23
Atrazine
Concen: 0.440 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

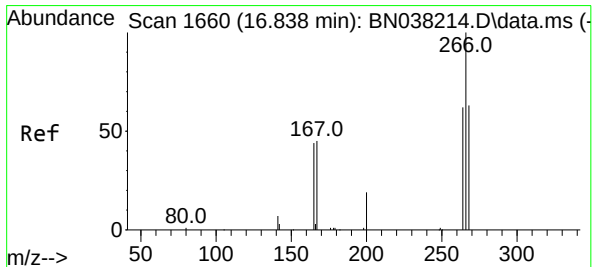
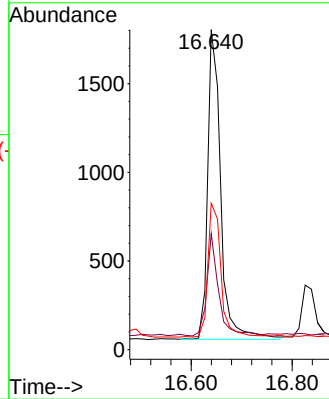
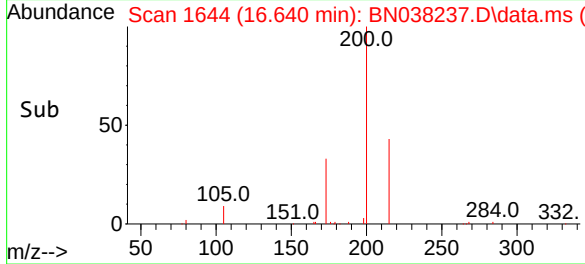
Instrument :
BNA_N
ClientSampleId :
PB170590BS



Tgt Ion:200 Resp: 3100
Ion Ratio Lower Upper
200 100
173 36.2 21.0 31.6
215 45.7 37.8 56.8

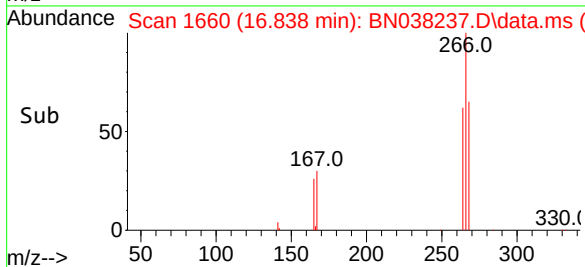
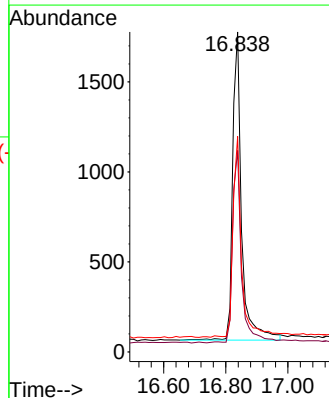
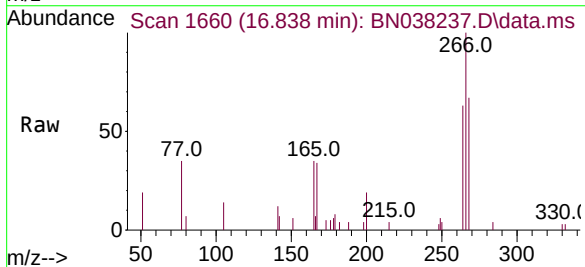
Manual Integrations
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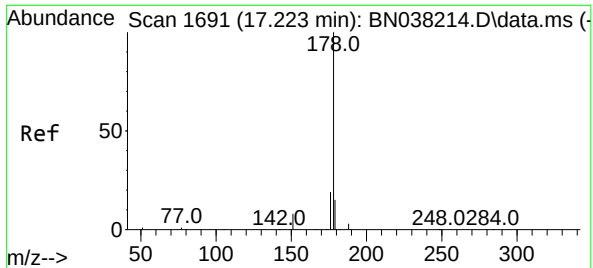
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#24
Pentachlorophenol
Concen: 0.914 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Tgt Ion:266 Resp: 3407
Ion Ratio Lower Upper
266 100
264 62.4 48.9 73.3
268 62.0 50.2 75.2





#25

Phenanthrene

Concen: 0.369 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

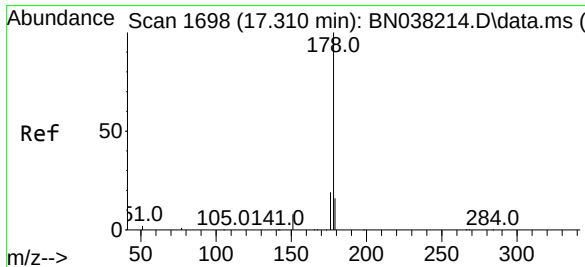
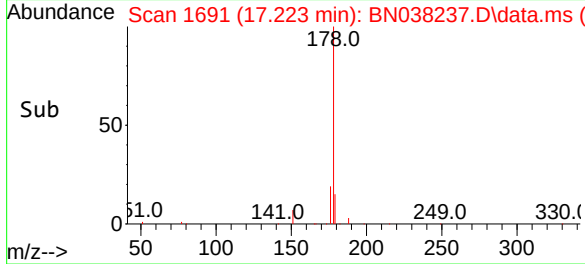
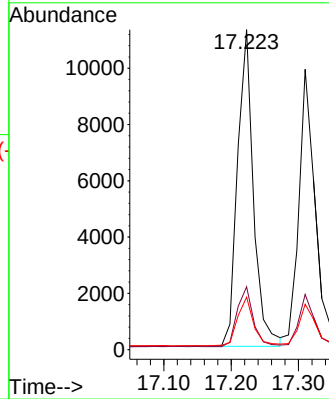
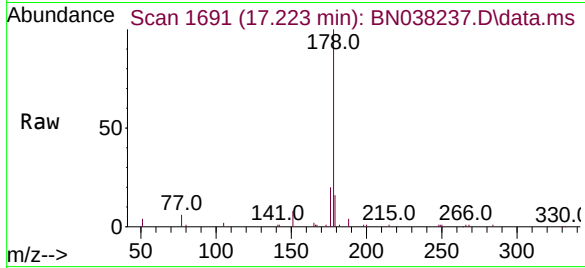
PB170590BS

Tgt Ion:	178	Resp:	18519
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.3	22.9
179	15.4	12.0	18.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#26

Anthracene

Concen: 0.395 ng

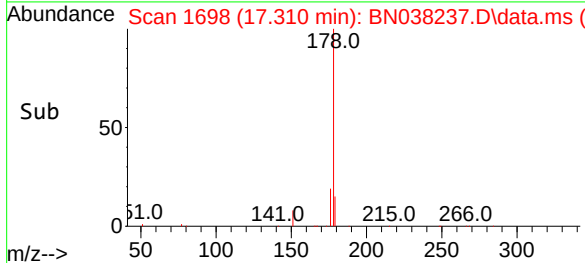
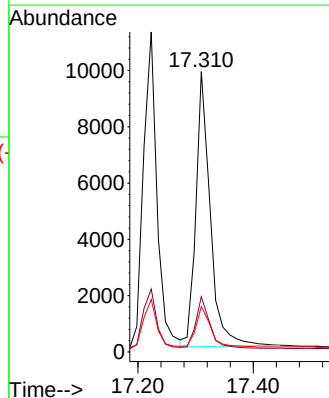
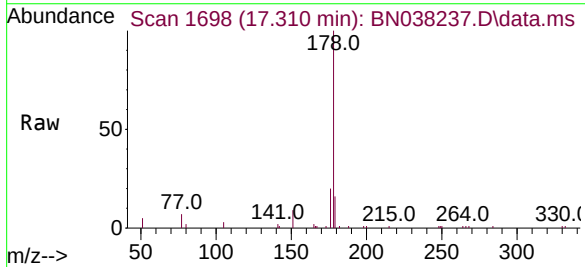
RT: 17.310 min Scan# 1698

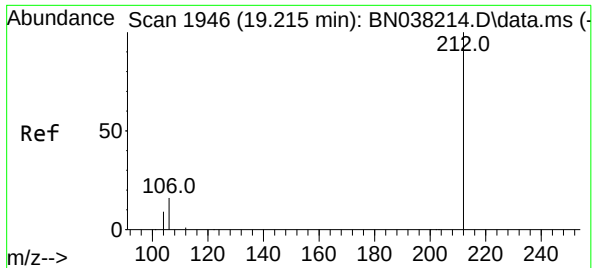
Delta R.T. 0.000 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

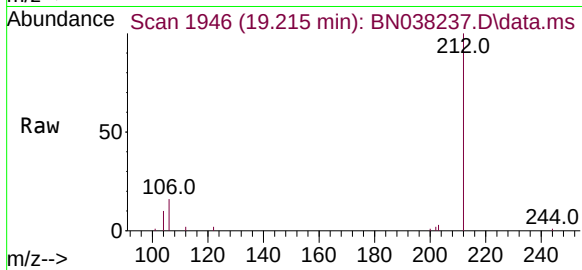
Tgt Ion:	178	Resp:	16913
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.7	22.1
179	15.1	12.3	18.5





#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 19.215 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

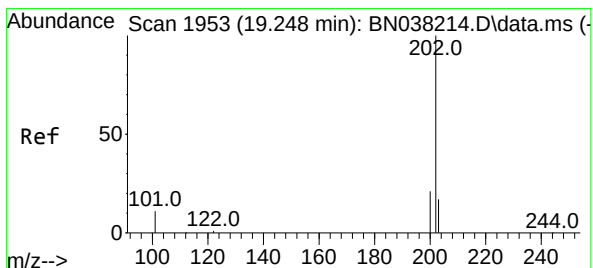
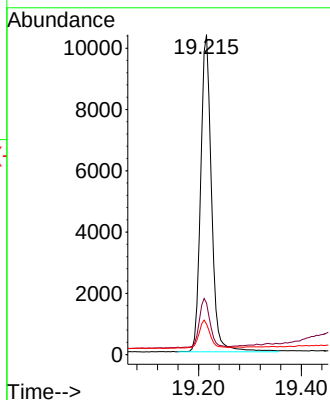
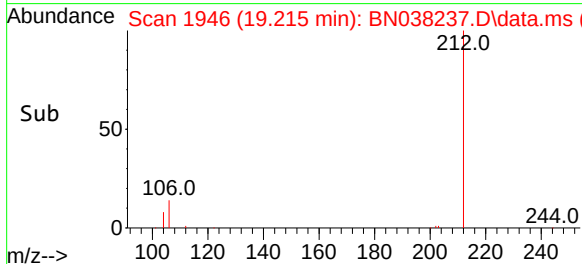
Instrument :
BNA_N
ClientSampleId :
PB170590BS



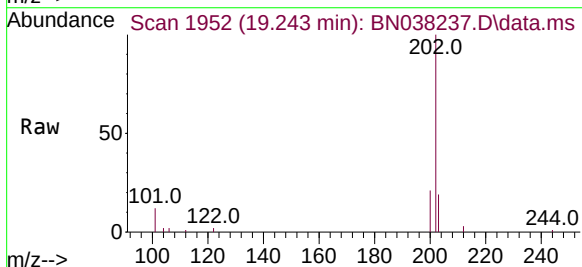
Tgt Ion:212 Resp: 15069
Ion Ratio Lower Upper
212 100
106 15.1 12.7 19.1
104 9.6 7.3 10.9

Manual Integrations
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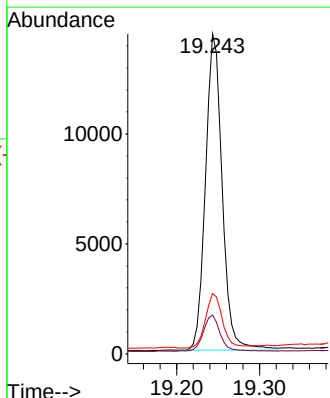
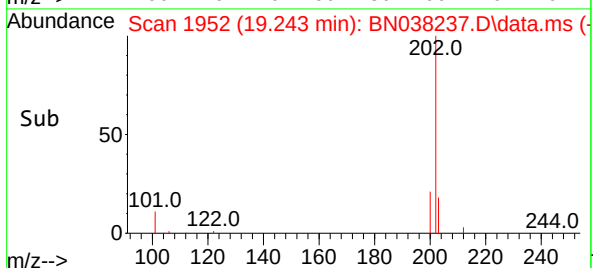
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

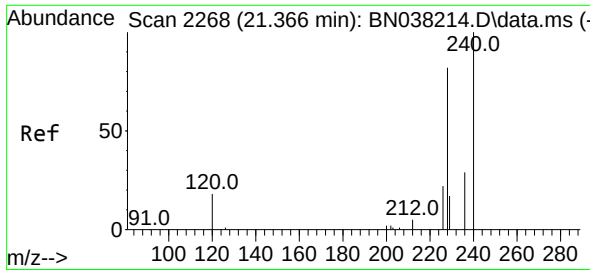


#28
Fluoranthene
Concen: 0.417 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05



Tgt Ion:202 Resp: 20125
Ion Ratio Lower Upper
202 100
101 11.4 9.8 14.6
203 17.6 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

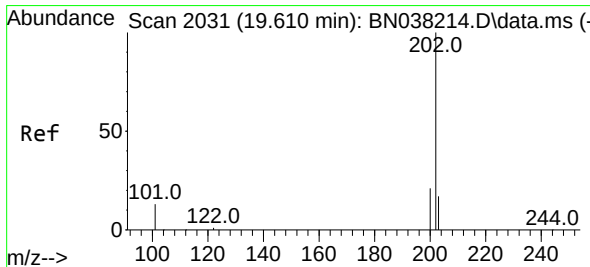
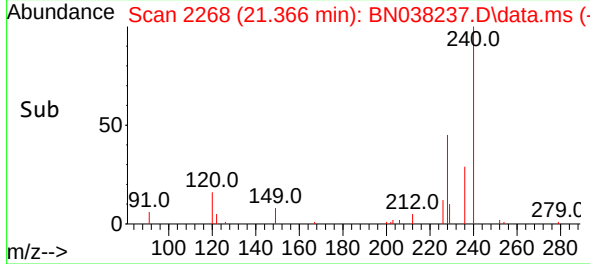
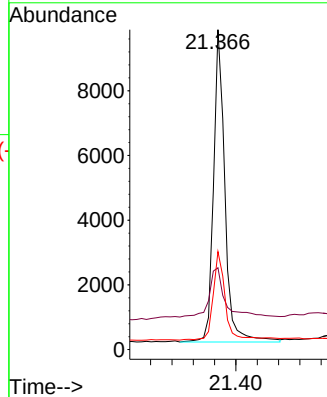
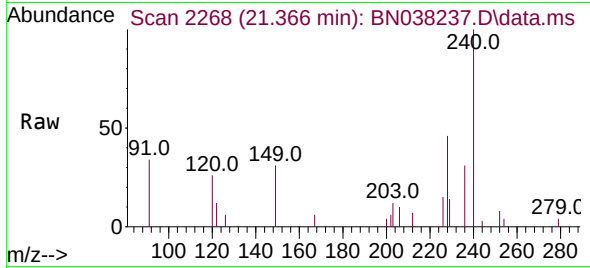
PB170590BS

Tgt Ion:	240	Resp:	14394
Ion Ratio	Lower	Upper	
240	100		
120	25.6	18.1	27.1
236	30.6	24.2	36.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#30

Pyrene

Concen: 0.361 ng

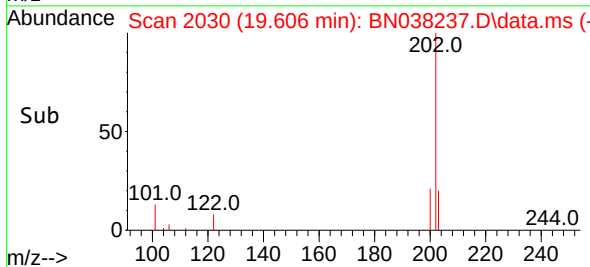
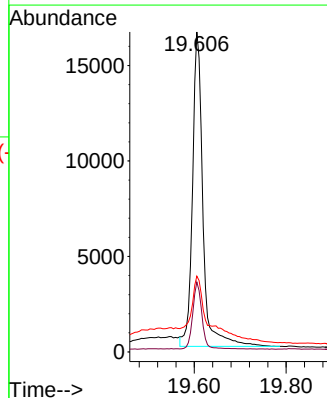
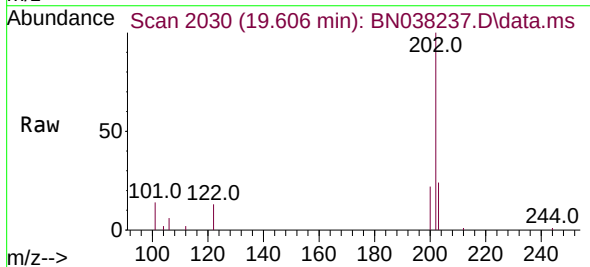
RT: 19.606 min Scan# 2030

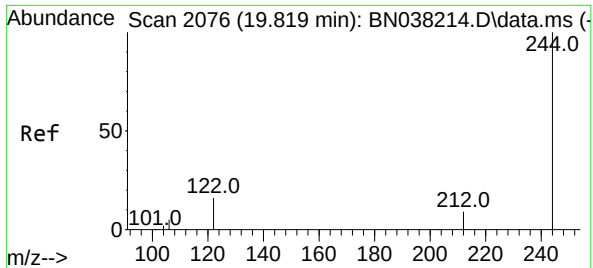
Delta R.T. -0.005 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Tgt Ion:	202	Resp:	25986
Ion Ratio	Lower	Upper	
202	100		
200	18.4	16.8	25.2
203	36.3	14.4	21.6





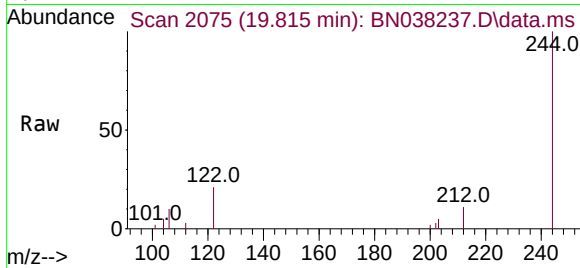
#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.815 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

PB170590BS

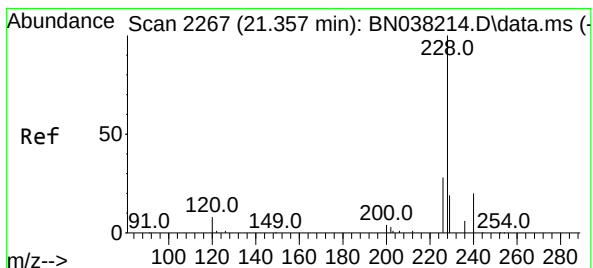
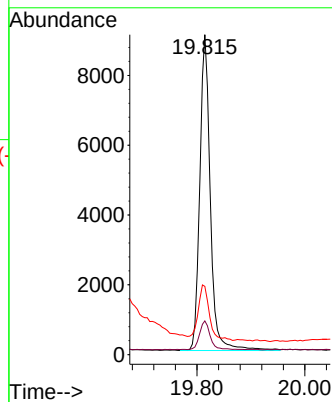
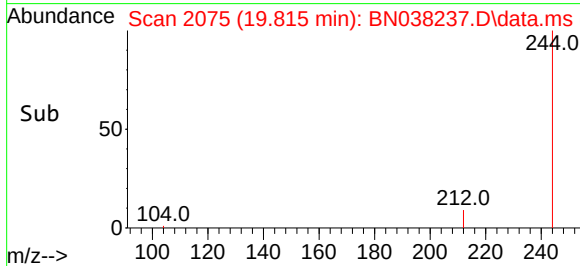


Tgt Ion:244 Resp: 12252
Ion Ratio Lower Upper
244 100
212 10.5 7.7 11.5
122 21.3 13.6 20.4

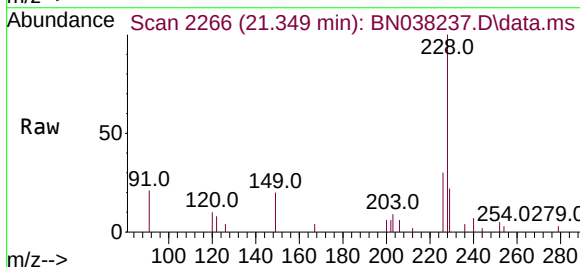
Manual Integrations

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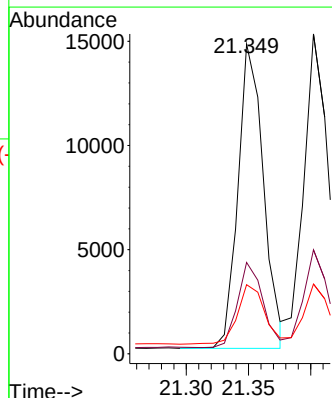
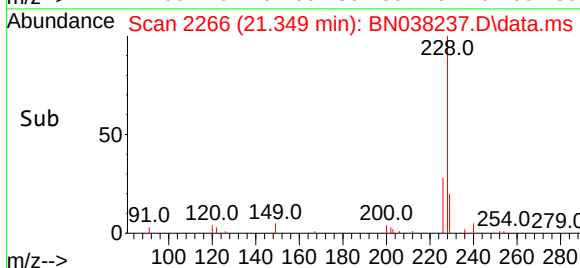
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

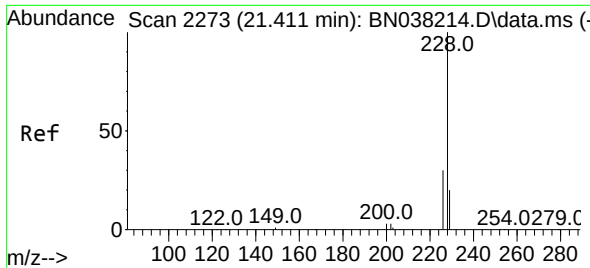


#32
Benzo(a)anthracene
Concen: 0.427 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038237.D
Acq: 01 Dec 2025 22:05



Tgt Ion:228 Resp: 20794
Ion Ratio Lower Upper
228 100
226 29.5 22.6 33.8
229 22.3 15.8 23.8





#33

Chrysene

Concen: 0.376 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

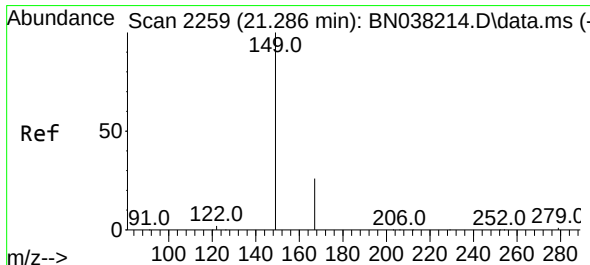
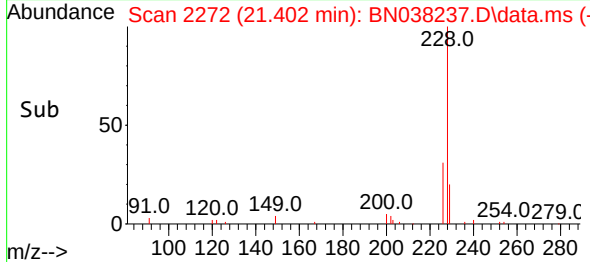
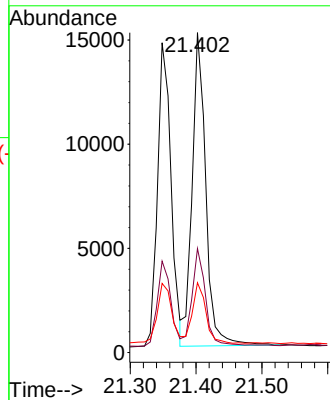
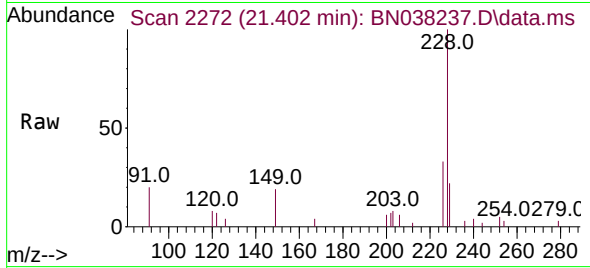
PB170590BS

Tgt Ion:	228	Resp:	21620
Ion Ratio	Lower	Upper	
228	100		
226	32.5	23.8	35.8
229	21.8	16.1	24.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.586 ng

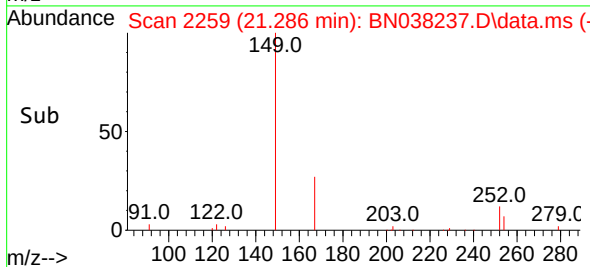
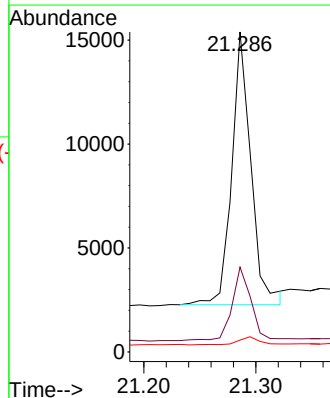
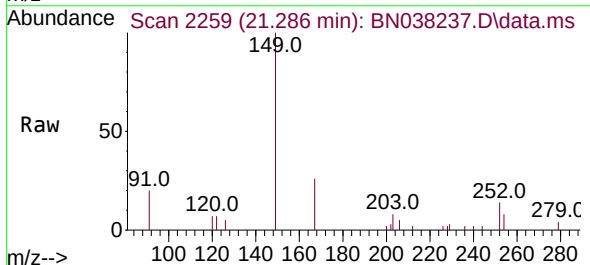
RT: 21.286 min Scan# 2259

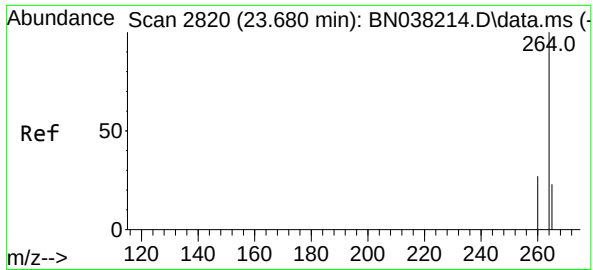
Delta R.T. 0.000 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Tgt Ion:	149	Resp:	15644
Ion Ratio	Lower	Upper	
149	100		
167	27.1	20.7	31.1
279	3.5	2.5	3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038237.D

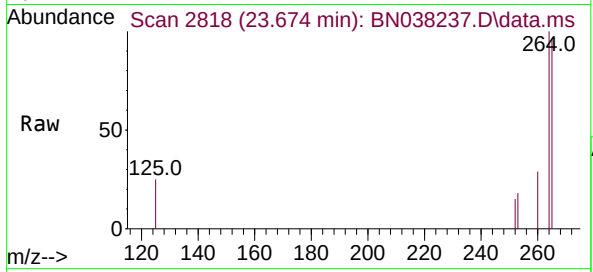
Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

PB170590BS



Tgt Ion:264 Resp: 16168

Ion Ratio Lower Upper

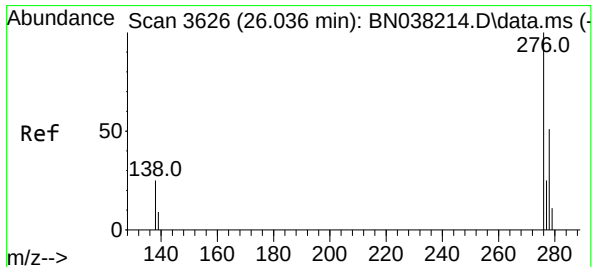
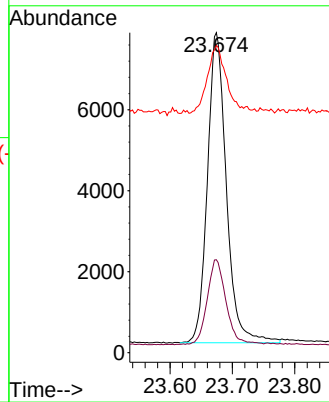
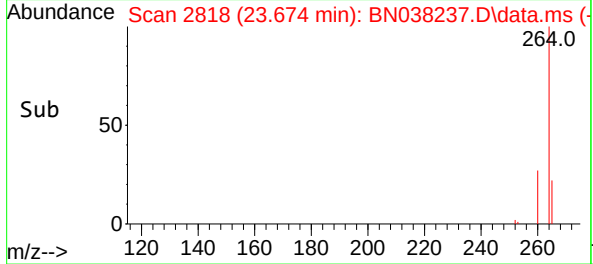
264 100

260 29.0 21.7 32.5

265 96.0 98.0 147.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

#36

Indeno(1,2,3-cd)pyrene

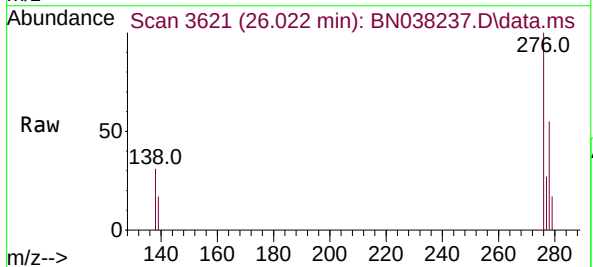
Concen: 0.392 ng

RT: 26.022 min Scan# 3621

Delta R.T. -0.015 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05



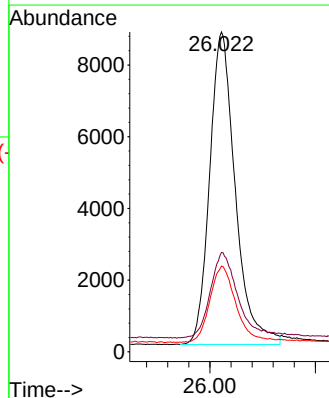
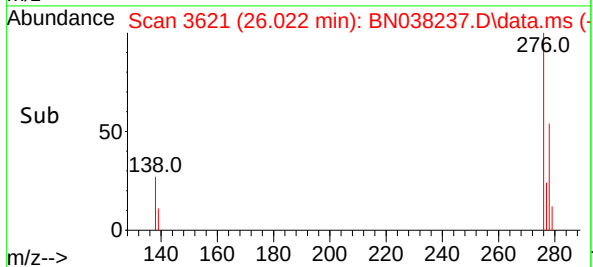
Tgt Ion:276 Resp: 29356

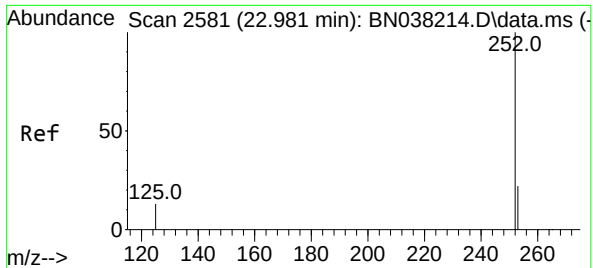
Ion Ratio Lower Upper

276 100

138 28.7 21.4 32.2

277 24.7 19.1 28.7





#37

Benzo(b)fluoranthene

Concen: 0.344 ng

RT: 22.975 min Scan# 2579

Delta R.T. -0.006 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

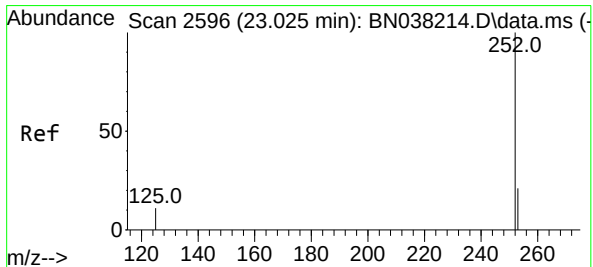
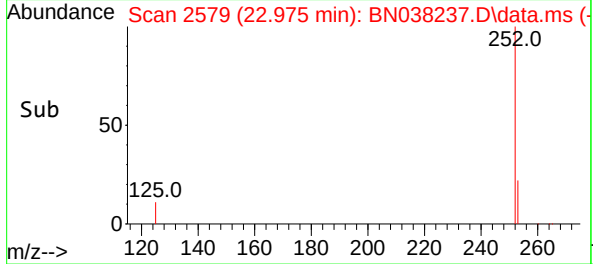
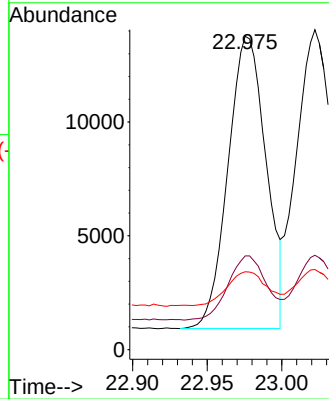
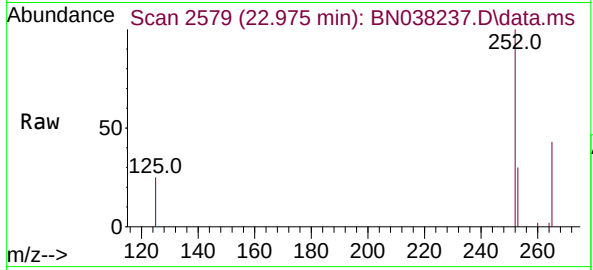
PB170590BS

Tgt Ion:	252	Resp:	22824
Ion Ratio	Lower	Upper	
252	100		
253	29.9	22.2	33.4
125	24.8	18.0	27.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#38

Benzo(k)fluoranthene

Concen: 0.349 ng

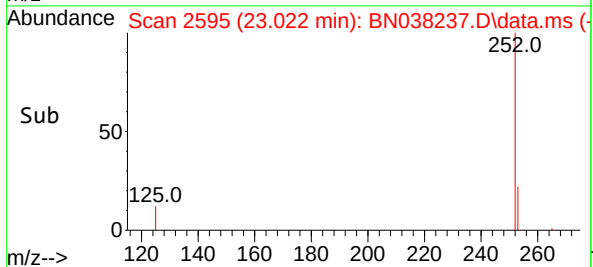
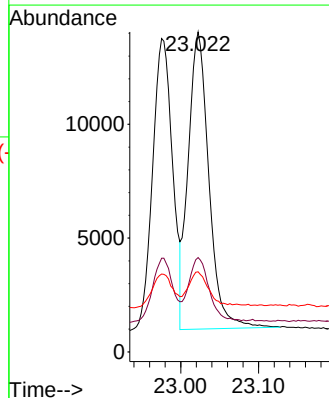
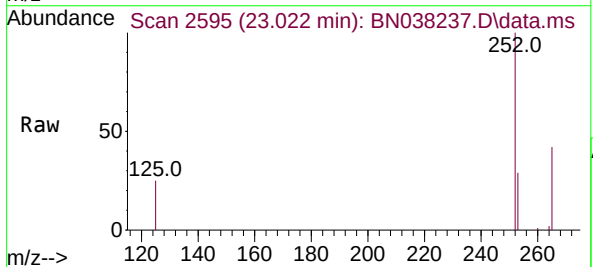
RT: 23.022 min Scan# 2595

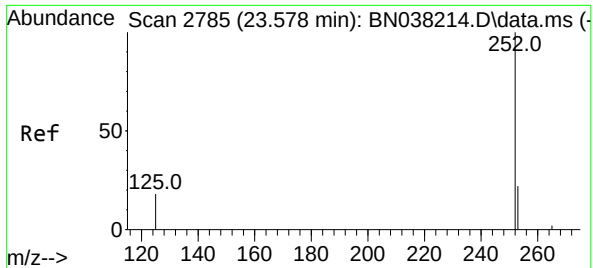
Delta R.T. -0.003 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Tgt Ion:	252	Resp:	24101
Ion Ratio	Lower	Upper	
252	100		
253	29.5	22.4	33.6
125	25.0	17.5	26.3





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.572 min Scan# 2185

Delta R.T. -0.006 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

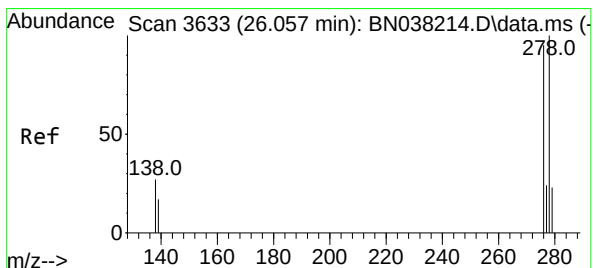
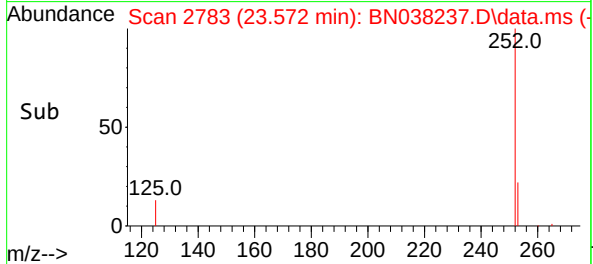
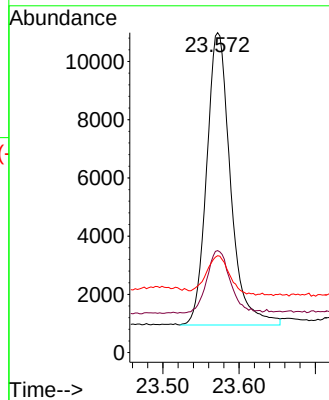
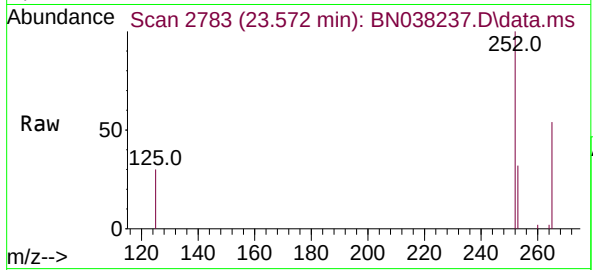
PB170590BS

Tgt Ion:	252	Resp:	2185
Ion Ratio	Lower	Upper	
252	100		
253	31.9	25.3	37.9
125	30.3	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.404 ng

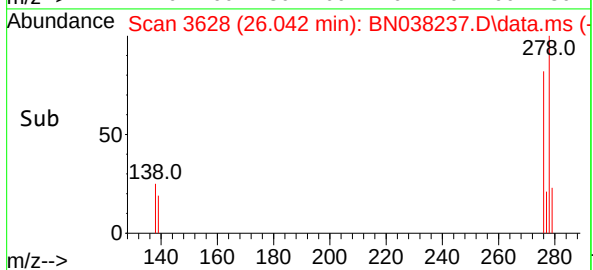
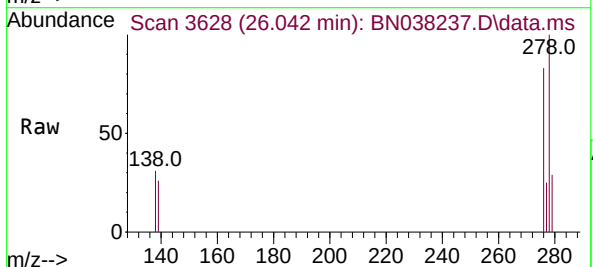
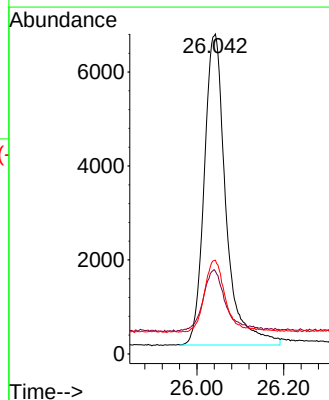
RT: 26.042 min Scan# 3628

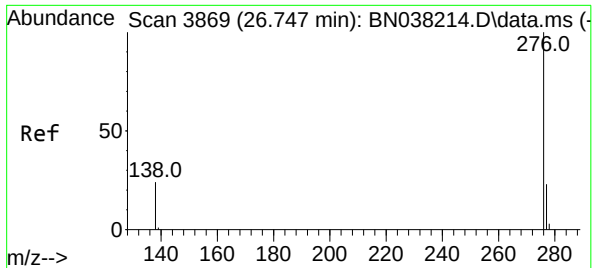
Delta R.T. -0.015 min

Lab File: BN038237.D

Acq: 01 Dec 2025 22:05

Tgt Ion:	278	Resp:	22900
Ion Ratio	Lower	Upper	
278	100		
139	25.8	17.6	26.4
279	29.3	24.2	36.4





#41

Benzo(g,h,i)perylene

Concen: 0.363 ng

RT: 26.741 min Scan# 38

Delta R.T. -0.006 min

Lab File: BN038237.D

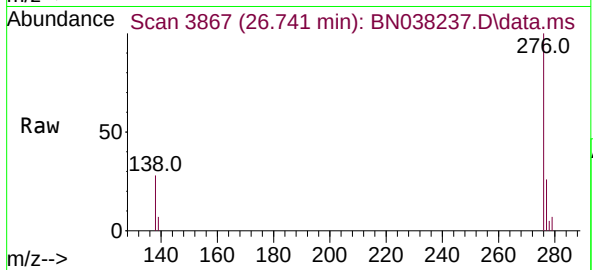
Acq: 01 Dec 2025 22:05

Instrument :

BNA_N

ClientSampleId :

PB170590BS



Tgt Ion:276 Resp: 24599

Ion Ratio Lower Upper

276 100

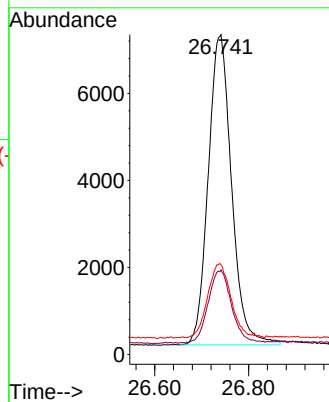
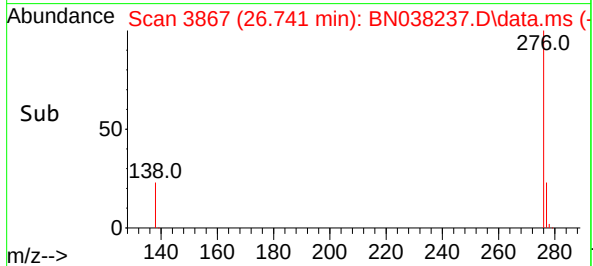
277 26.5 20.2 30.2

138 28.1 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025





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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: EME-GENERAL-FILLMS
Lab Sample ID: Q3618-02MS
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.04 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected: 11/12/25
Date Received: 11/12/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 88.2
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	13.7		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
91-57-6	2-Methylnaphthalene	11.9		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
208-96-8	Acenaphthylene	12.9		1	1.20	3.70	ug/Kg	12/01/25 20:17	PB170590
83-32-9	Acenaphthene	13.1		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
86-73-7	Fluorene	12.0		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
85-01-8	Phenanthrene	14.3		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
120-12-7	Anthracene	13.1		1	1.40	3.70	ug/Kg	12/01/25 20:17	PB170590
206-44-0	Fluoranthene	12.9		1	1.30	3.70	ug/Kg	12/01/25 20:17	PB170590
129-00-0	Pyrene	12.3		1	1.20	3.70	ug/Kg	12/01/25 20:17	PB170590
56-55-3	Benzo(a)anthracene	17.3		1	1.50	3.70	ug/Kg	12/01/25 20:17	PB170590
218-01-9	Chrysene	13.7		1	1.60	3.70	ug/Kg	12/01/25 20:17	PB170590
205-99-2	Benzo(b)fluoranthene	13.0		1	1.80	3.70	ug/Kg	12/01/25 20:17	PB170590
207-08-9	Benzo(k)fluoranthene	12.3		1	2.10	3.70	ug/Kg	12/01/25 20:17	PB170590
50-32-8	Benzo(a)pyrene	13.3		1	1.60	3.70	ug/Kg	12/01/25 20:17	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	14.4		1	2.00	3.70	ug/Kg	12/01/25 20:17	PB170590
53-70-3	Dibenzo(a,h)anthracene	14.5		1	2.00	3.70	ug/Kg	12/01/25 20:17	PB170590
191-24-2	Benzo(g,h,i)perylene	13.4		1	1.90	3.70	ug/Kg	12/01/25 20:17	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.33			17 - 161	83%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.31			23 - 138	78%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.34			33 - 121	85%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.37			32 - 121	91%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.34			21 - 130	85%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8530							
1146-65-2	Naphthalene-d8	25800							
15067-26-2	Acenaphthene-d10	13400							
1517-22-2	Phenanthrene-d10	19700							
1719-03-5	Chrysene-d12	12800							
1520-96-3	Perylene-d12	14200							

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\BN120125\
 Data File : BN038234.D
 Acq On : 01 Dec 2025 20:17
 Operator : RC/JU
 Sample : Q3618-02MS
 Misc :
 ALS Vial : 6 Sample Multiplier: 50

Instrument :
 BNA_N
 ClientSampleId :
 EME-GENERAL-FILLMS

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Dec 02 01:17:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.768	152	426687	20.000	ng	0.00
7) Naphthalene-d8	10.562	136	1290189	20.000	ng	#-0.01
13) Acenaphthene-d10	14.430	164	668507	20.000	ng	0.00
19) Phenanthrene-d10	17.173	188	987075	20.000	ng	#-0.01
29) Chrysene-d12	21.366	240	638484	20.000	ng	# 0.00
35) Perylene-d12	23.674	264	707894	20.000	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	6973	0.350	ng	0.00
5) Phenol-d6	6.930	99	8594	0.345	ng	0.00
8) Nitrobenzene-d5	8.918	82	7038	0.341	ng	0.00
11) 2-Methylnaphthalene-d10	12.162	152	12082	0.330	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1347	0.320	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	18882	0.366	ng	-0.01
27) Fluoranthene-d10	19.211	212	13298	0.311	ng	0.00
31) Terphenyl-d14	19.810	244	10006	0.339	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	3078	0.342	ng	# 75
3) n-Nitrosodimethylamine	3.557	42	4434	0.400	ng	# 90
6) bis(2-Chloroethyl)ether	7.183	93	9118	0.382	ng	97
9) Naphthalene	10.616	128	26113	0.364	ng	100
10) Hexachlorobutadiene	10.915	225	4464	0.366	ng	# 99
12) 2-Methylnaphthalene	12.238	142	14795	0.314	ng	99
16) Acenaphthylene	14.142	152	20534	0.343	ng	100
17) Acenaphthene	14.484	154	14433	0.346	ng	98
18) Fluorene	15.478	166	17084	0.317	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	852	9.022	ng	# 29
21) 4-Bromophenyl-phenylether	16.367	248	4911	0.359	ng	# 78
22) Hexachlorobenzene	16.491	284	5677	0.338	ng	99
23) Atrazine	16.640	200	2999	0.343	ng	# 93
24) Pentachlorophenol	16.838	266	2369	0.514	ng	99
25) Phenanthrene	17.223	178	23430m	0.378	ng	
26) Anthracene	17.310	178	18316	0.346	ng	100
28) Fluoranthene	19.243	202	20474	0.343	ng	99
30) Pyrene	19.606	202	20859	0.327	ng	100
32) Benzo(a)anthracene	21.349	228	19800	0.458	ng	99
33) Chrysene	21.402	228	18476	0.362	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	11351	0.479	ng	99
36) Indeno(1,2,3-cd)pyrene	26.019	276	24968	0.381	ng	99
37) Benzo(b)fluoranthene	22.973	252	20010	0.344	ng	99
38) Benzo(k)fluoranthene	23.019	252	19631	0.325	ng	96
39) Benzo(a)pyrene	23.569	252	17215	0.353	ng	96
40) Dibenzo(a,h)anthracene	26.037	278	19064	0.384	ng	97
41) Benzo(g,h,i)perylene	26.738	276	21099	0.356	ng	99

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

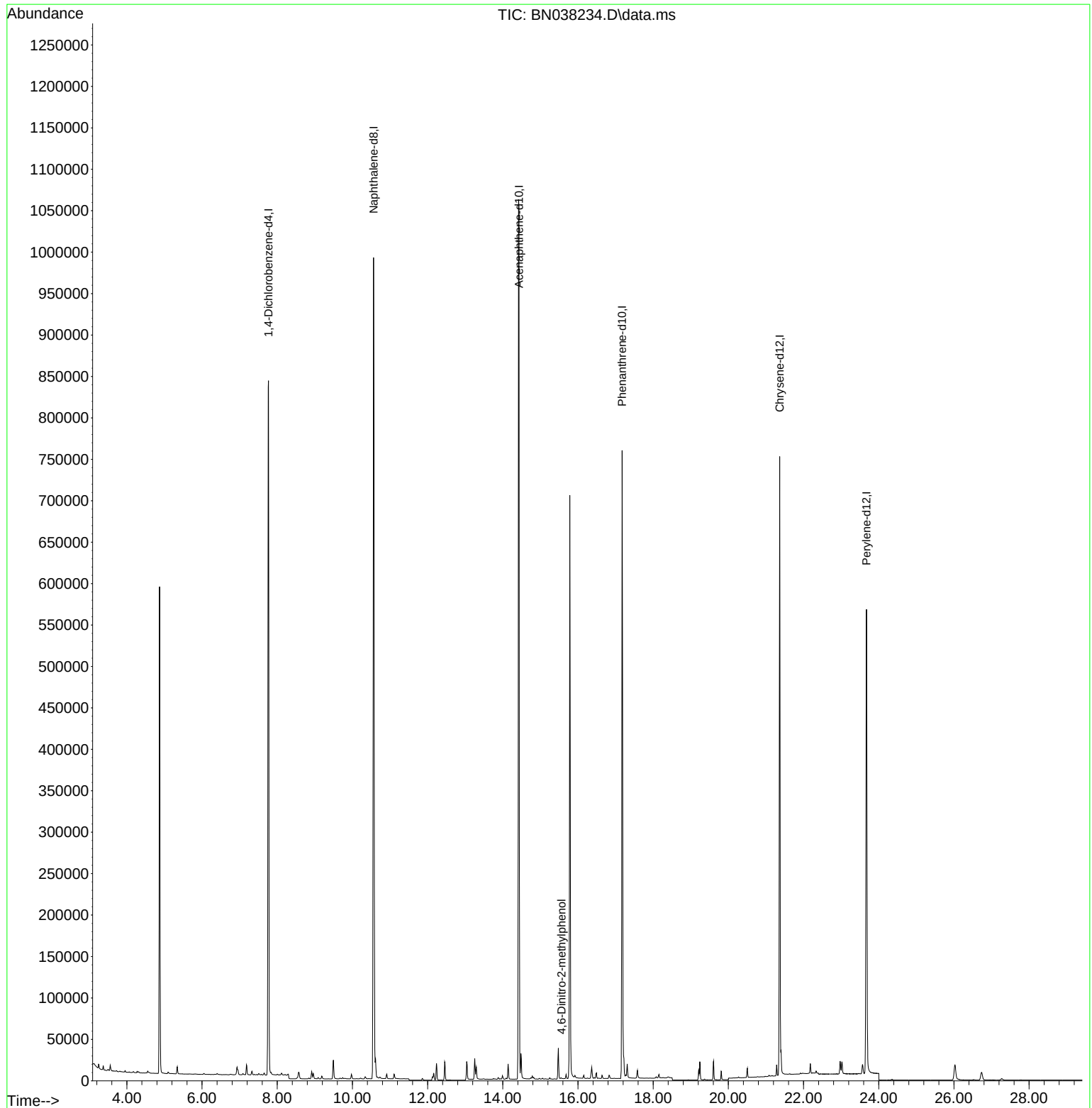
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120125\
Data File : BN038234.D
Acq On : 01 Dec 2025 20:17
Operator : RC/JU
Sample : Q3618-02MS
Misc :
ALS Vial : 6 Sample Multiplier: 50

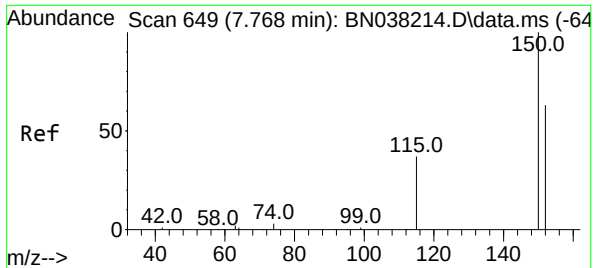
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

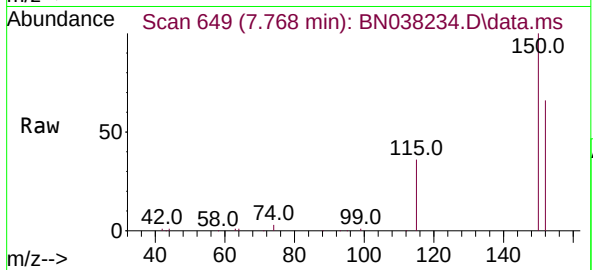
Quant Time: Dec 02 01:17:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

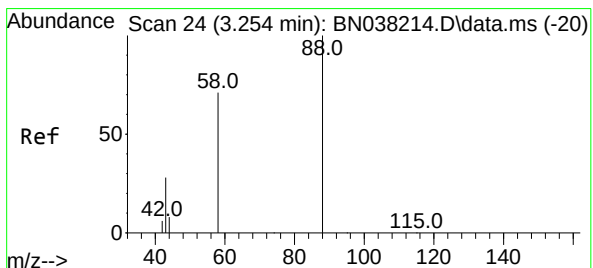
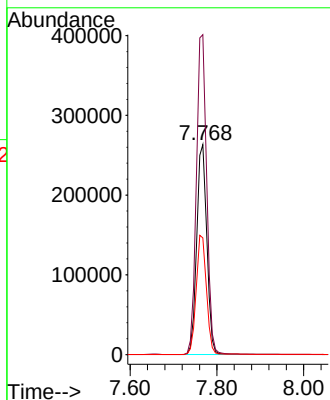
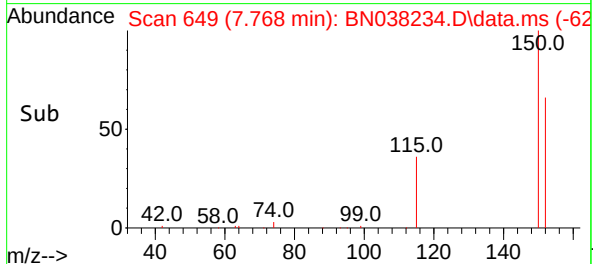
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:152 Resp: 42668
Ion Ratio Lower Upper
152 100
150 152.3 125.3 187.9
115 55.6 49.0 73.4

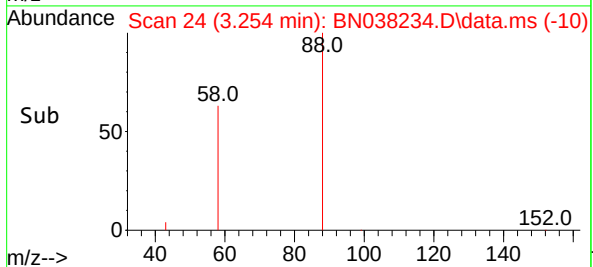
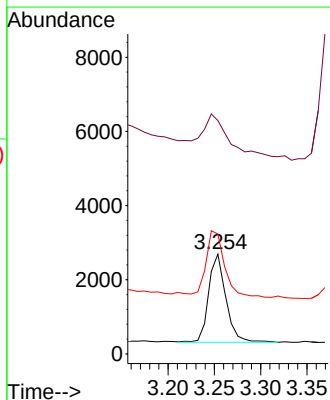
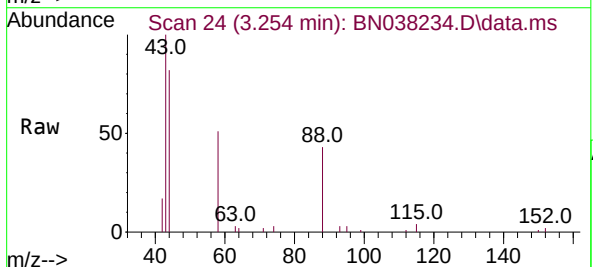
Manual Integrations
APPROVED

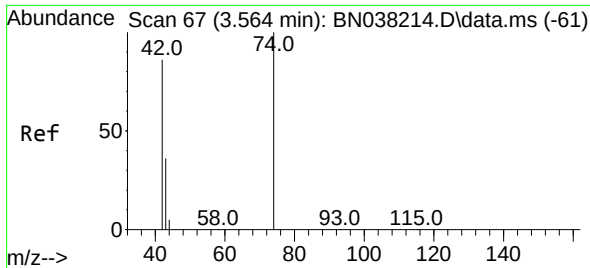
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#2
1,4-Dioxane
Concen: 0.342 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

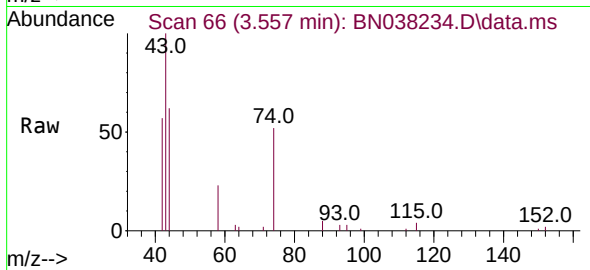
Tgt Ion: 88 Resp: 3078
Ion Ratio Lower Upper
88 100
43 71.1 24.8 37.2#
58 81.3 61.1 91.7





#3
n-Nitrosodimethylamine
Concen: 0.400 ng
RT: 3.557 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

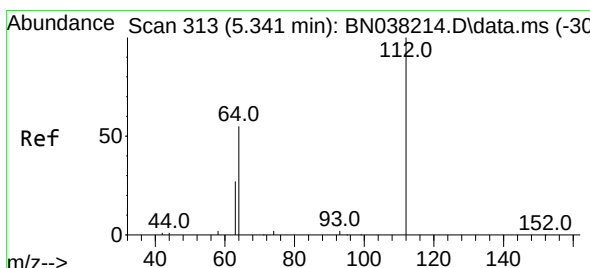
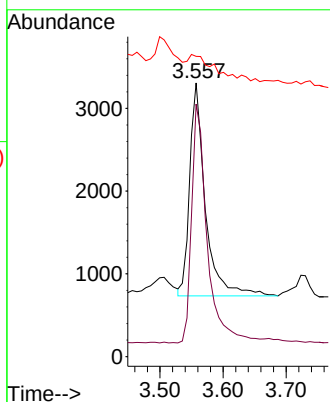
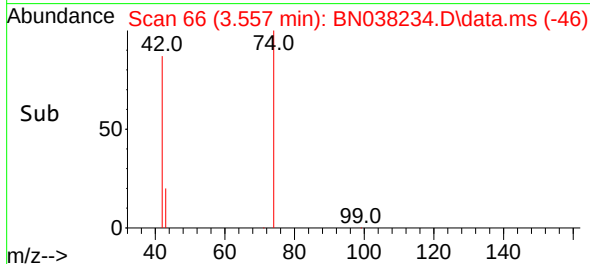
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion: 42 Resp: 4434
Ion Ratio Lower Upper
42 100
74 110.8 96.2 144.2
44 19.0 8.0 12.0

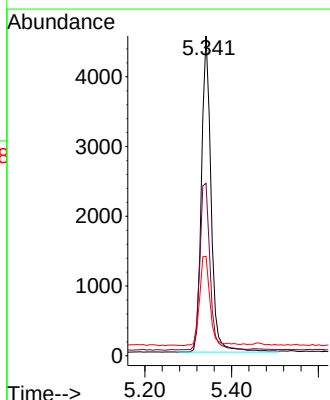
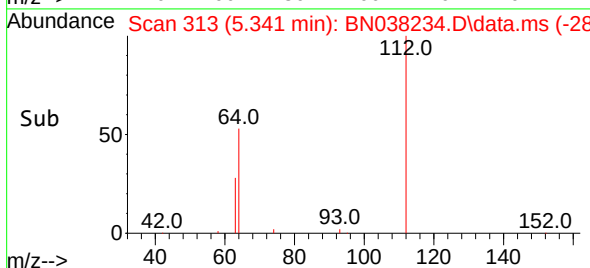
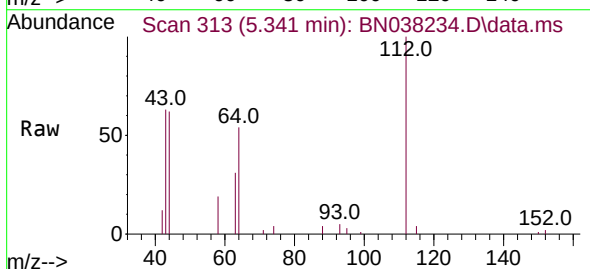
Manual Integrations
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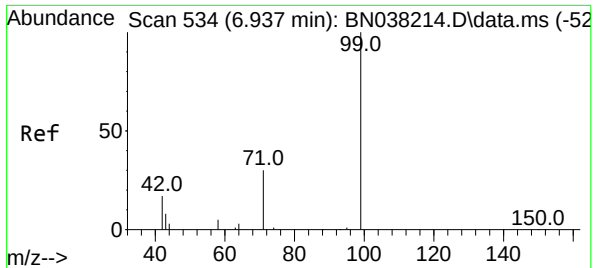
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#4
2-Fluorophenol
Concen: 0.350 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

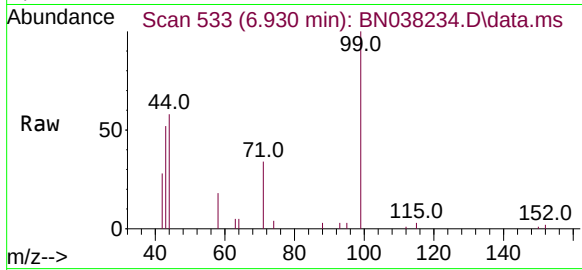
Tgt Ion:112 Resp: 6973
Ion Ratio Lower Upper
112 100
64 55.9 45.0 67.4
63 30.6 23.2 34.8





#5
Phenol-d6
Concen: 0.345 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

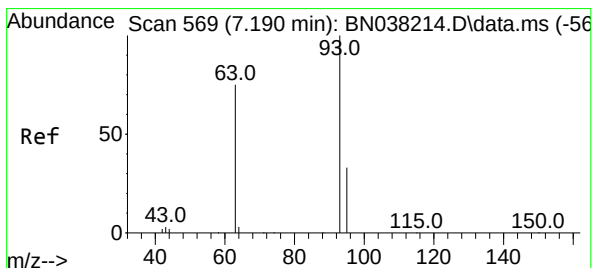
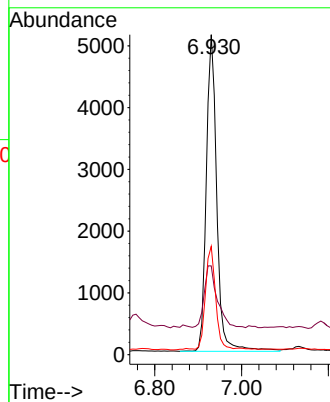
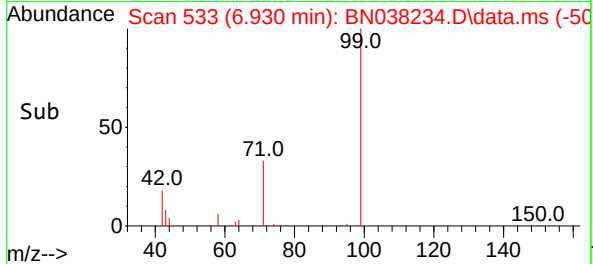
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion: 99 Resp: 8594
Ion Ratio Lower Upper
99 100
42 24.5 17.0 25.6
71 30.7 25.4 38.2

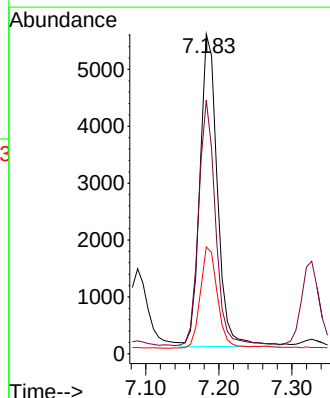
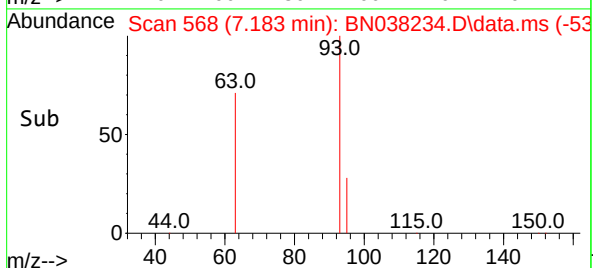
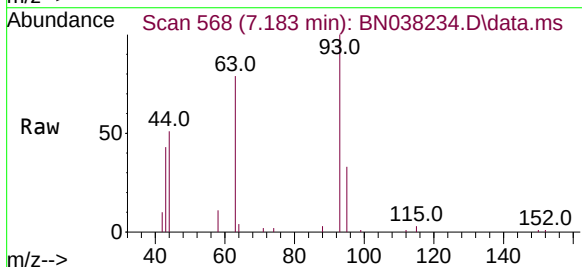
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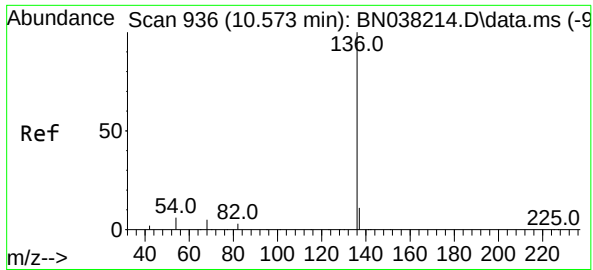
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

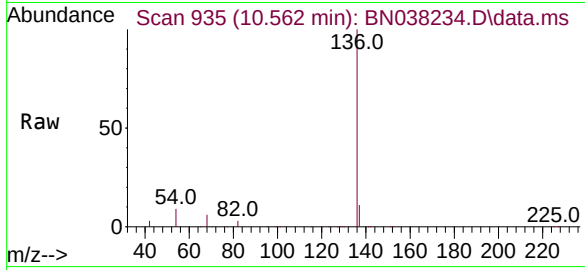
Tgt Ion: 93 Resp: 9118
Ion Ratio Lower Upper
93 100
63 76.4 58.1 87.1
95 31.8 25.1 37.7





#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

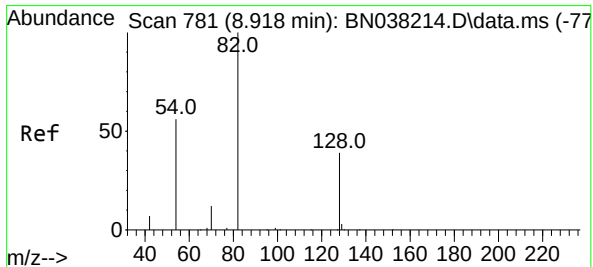
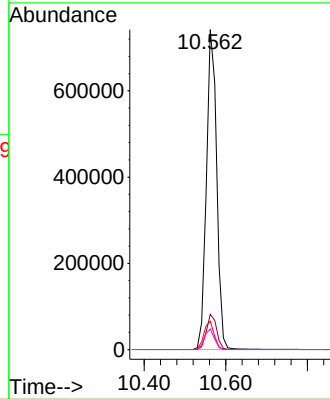
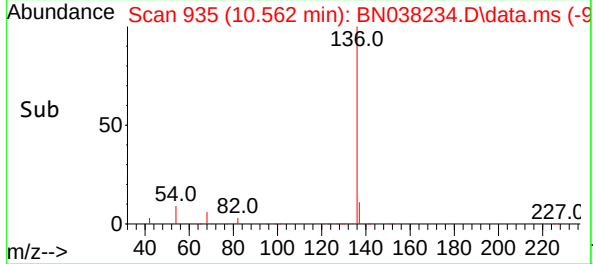
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:136 Resp: 1290189
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 8.9 5.4 8.0
68 6.5 4.1 6.1

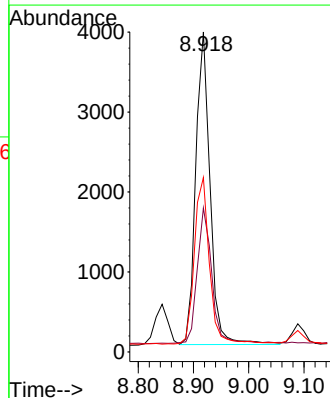
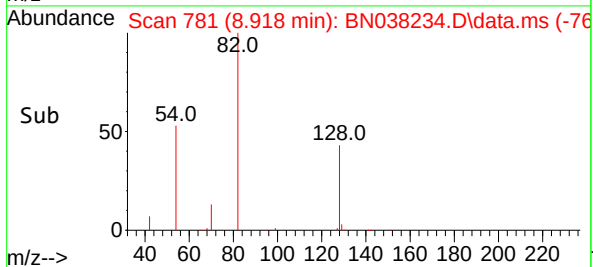
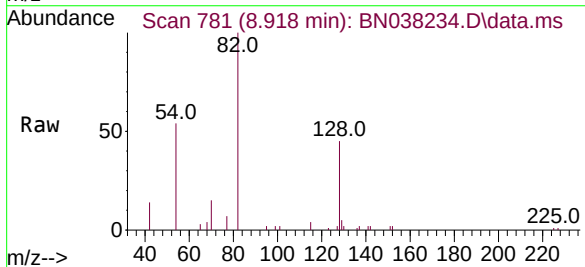
Manual Integrations
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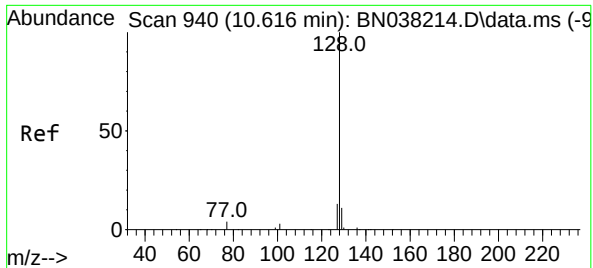
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

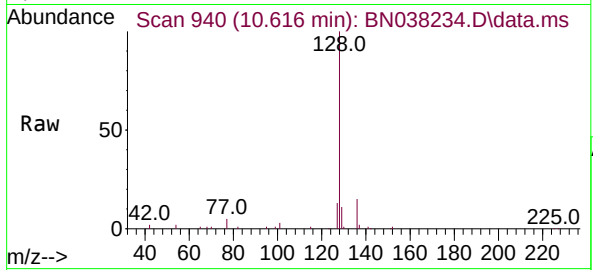
Tgt Ion: 82 Resp: 7038
Ion Ratio Lower Upper
82 100
128 45.0 32.6 48.8
54 54.5 45.4 68.0





#9
Naphthalene
Concen: 0.364 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

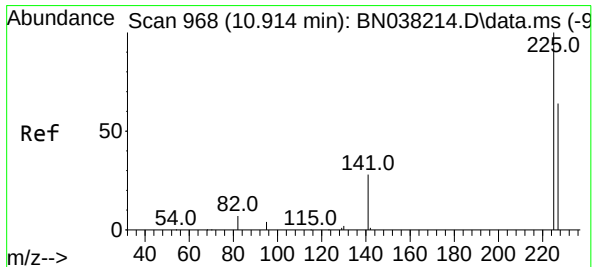
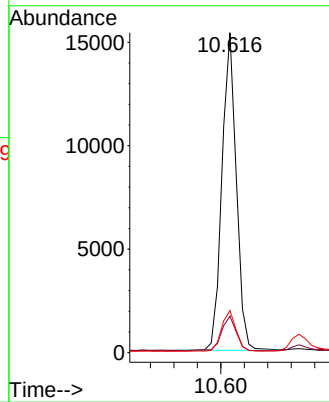
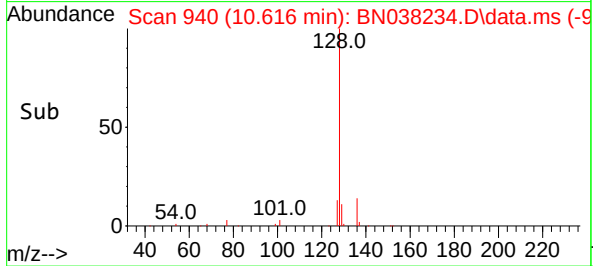
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:128 Resp: 26113
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.1 10.6 16.0

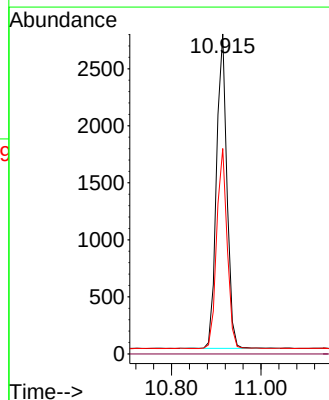
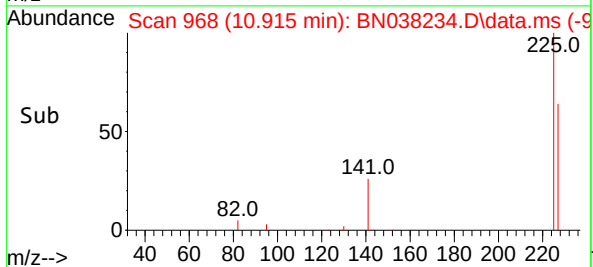
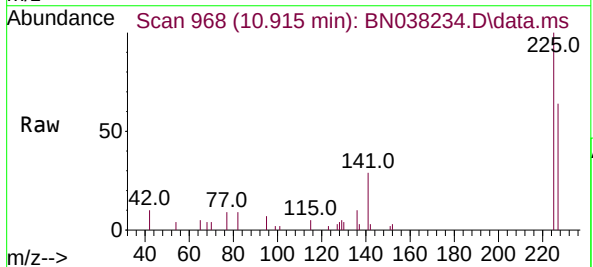
Manual Integrations
APPROVED

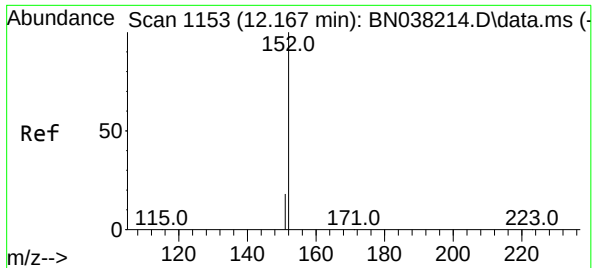
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

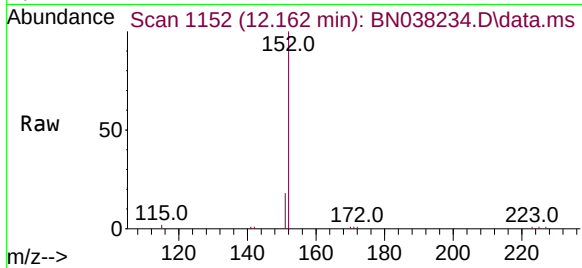
Tgt Ion:225 Resp: 4464
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.5 75.7





#11
2-Methylnaphthalene-d10
Concen: 0.330 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

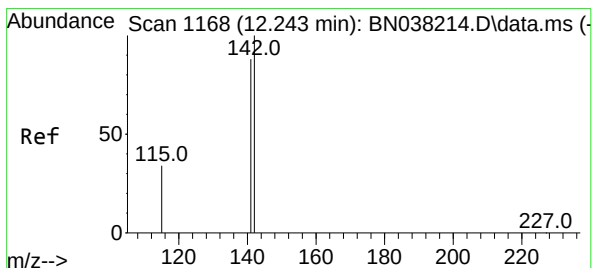
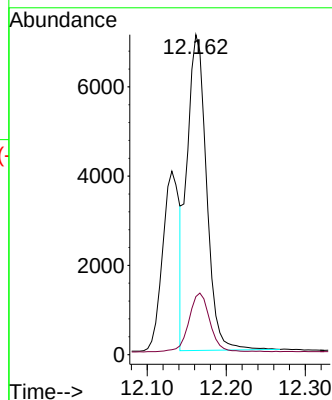
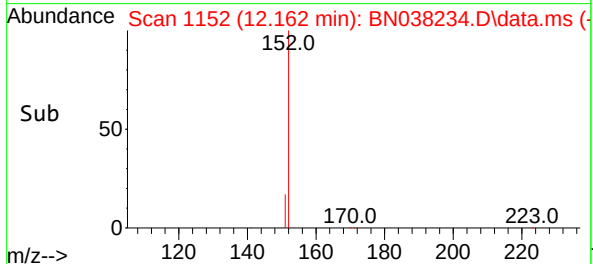
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:152 Resp: 12082
Ion Ratio Lower Upper
152 100
151 20.3 16.7 25.1

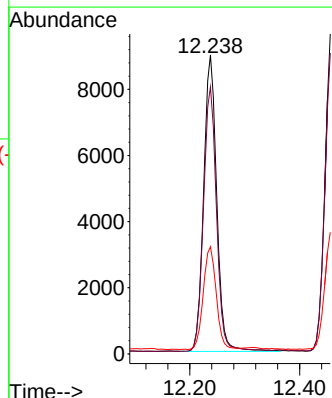
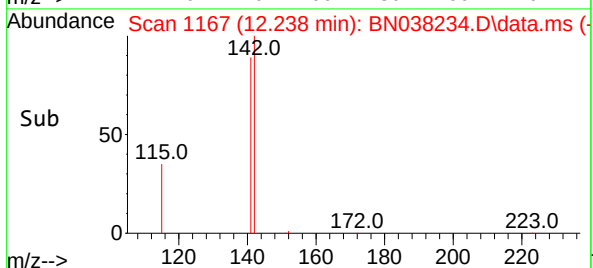
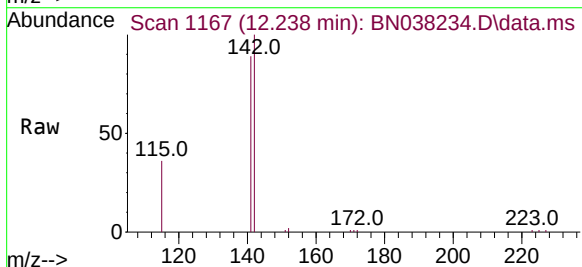
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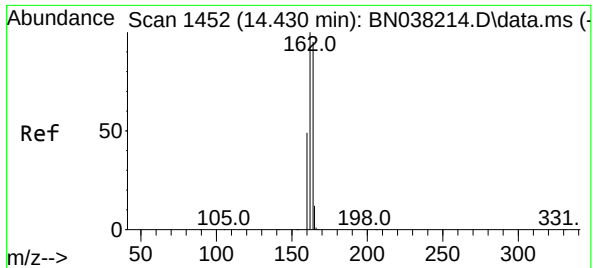
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#12
2-Methylnaphthalene
Concen: 0.314 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

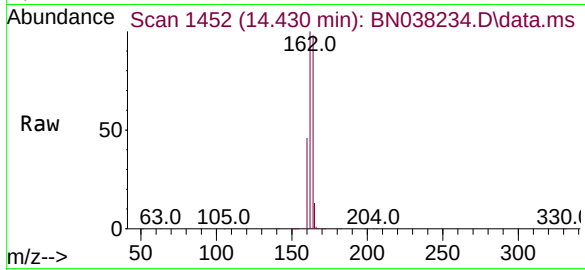
Tgt Ion:142 Resp: 14795
Ion Ratio Lower Upper
142 100
141 89.3 70.9 106.3
115 35.8 27.7 41.5





#13
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

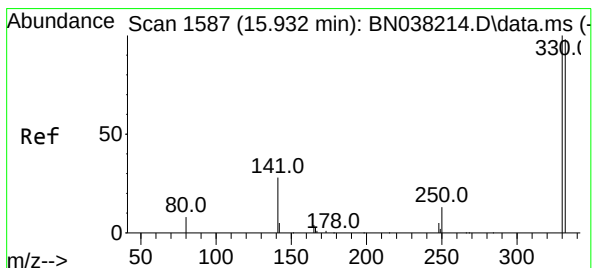
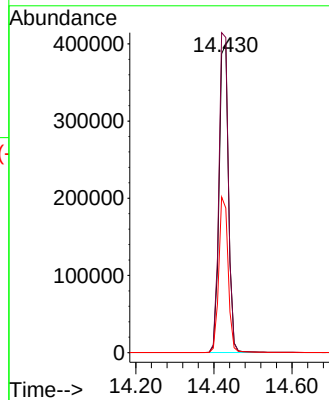
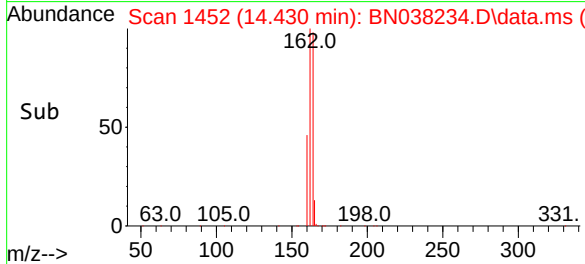
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



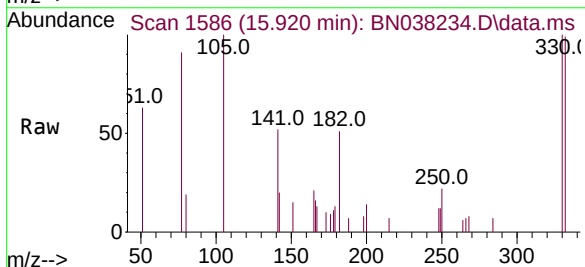
Tgt Ion:164 Resp: 66850
Ion Ratio Lower Upper
164 100
162 102.2 83.8 125.8
160 46.9 41.6 62.4

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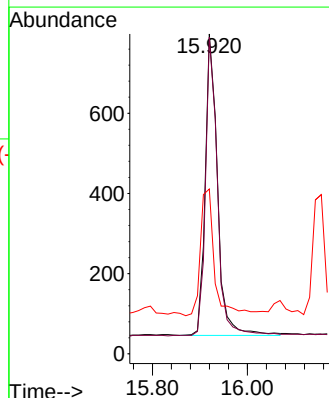
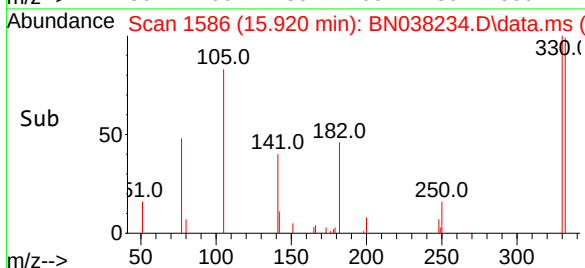
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

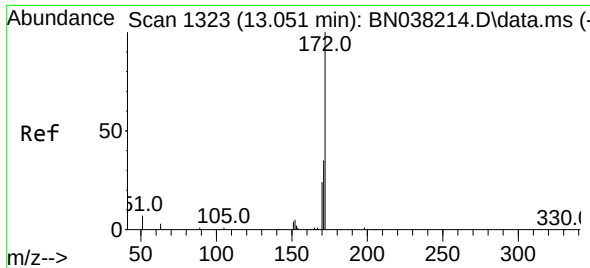


#14
2,4,6-Tribromophenol
Concen: 0.320 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17



Tgt Ion:330 Resp: 1347
Ion Ratio Lower Upper
330 100
332 96.3 77.8 116.6
141 47.9 33.0 49.4





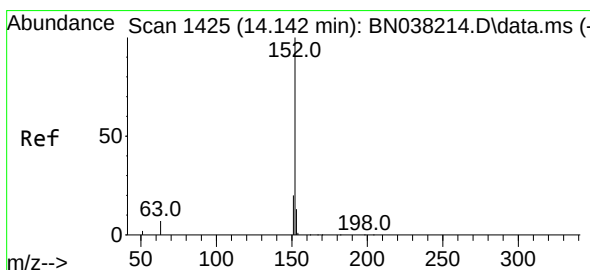
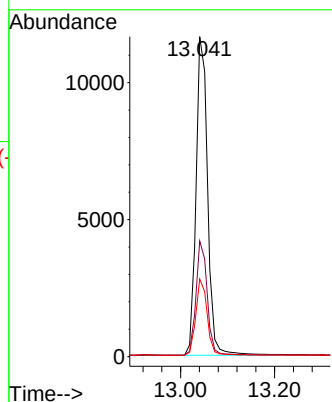
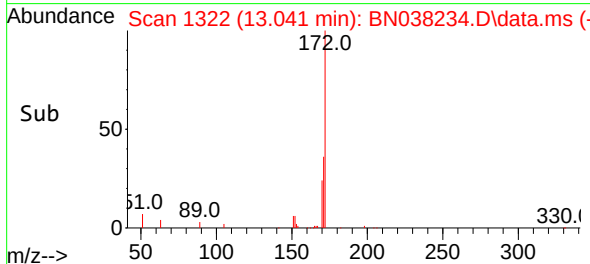
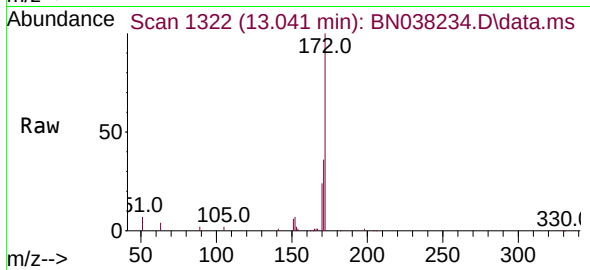
#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 13.041 min Scan# 1323
Delta R.T. -0.011 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS

Tgt Ion:172 Resp: 18882
Ion Ratio Lower Upper
172 100
171 36.2 28.1 42.1
170 24.2 19.1 28.7

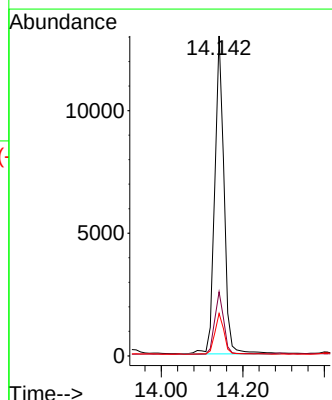
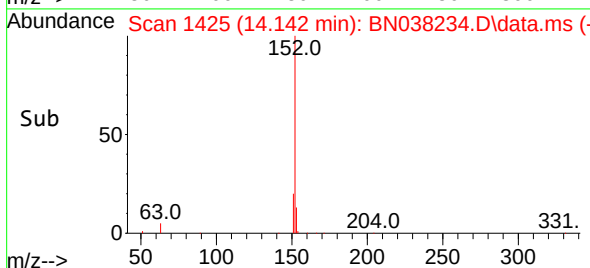
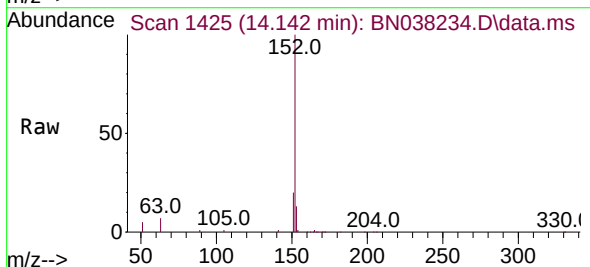
Manual Integrations
APPROVED

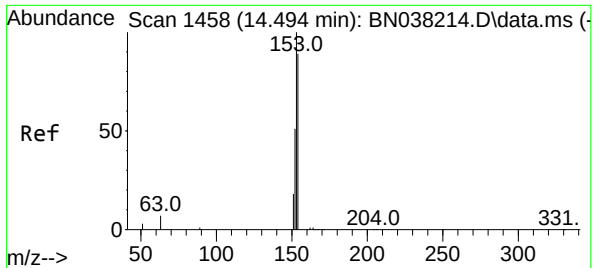
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#16
Acenaphthylene
Concen: 0.343 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

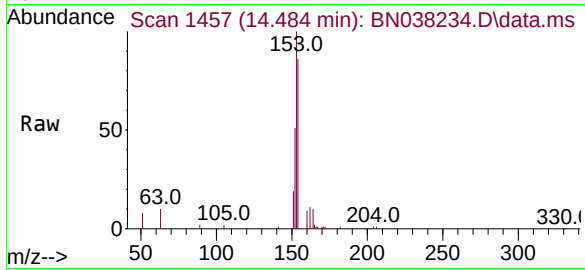
Tgt Ion:152 Resp: 20534
Ion Ratio Lower Upper
152 100
151 19.5 15.6 23.4
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.484 min Scan# 1458
Delta R.T. -0.011 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

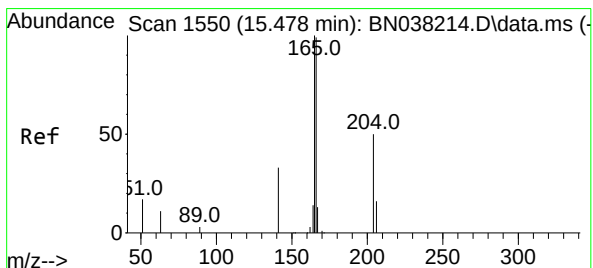
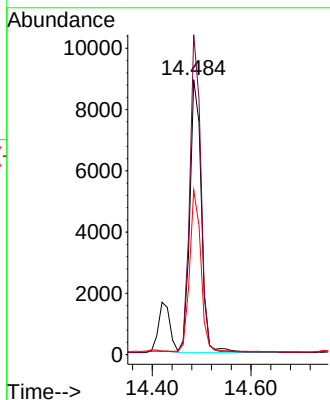
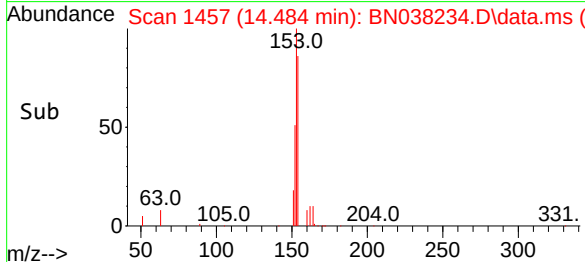
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:154 Resp: 1443
Ion Ratio Lower Upper
154 100
153 111.7 91.1 136.7
152 58.1 48.2 72.2

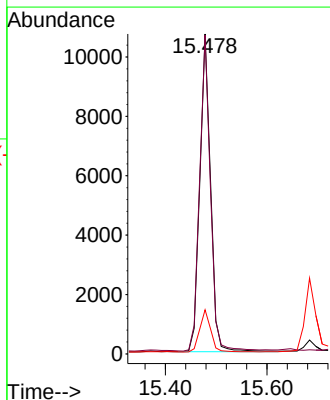
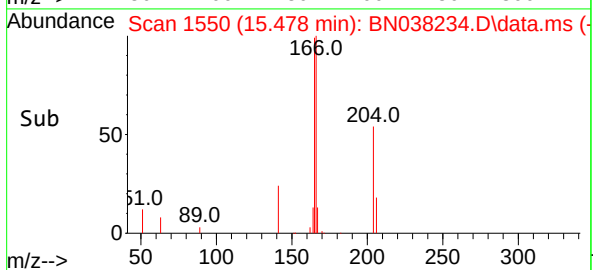
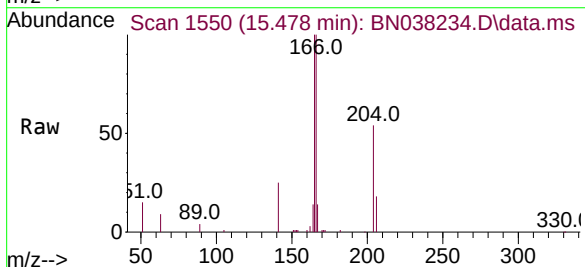
Manual Integrations
APPROVED

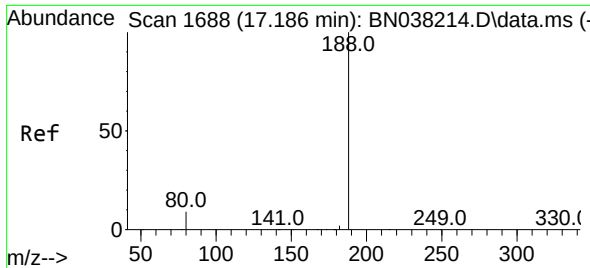
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#18
Fluorene
Concen: 0.317 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

Tgt Ion:166 Resp: 17084
Ion Ratio Lower Upper
166 100
165 99.7 78.7 118.1
167 13.4 10.9 16.3





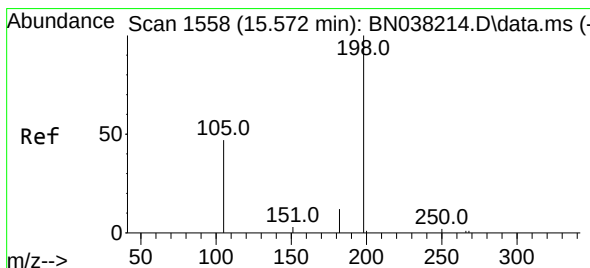
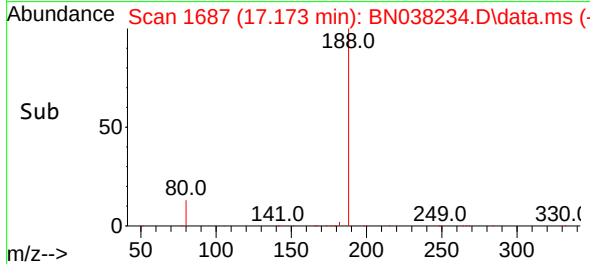
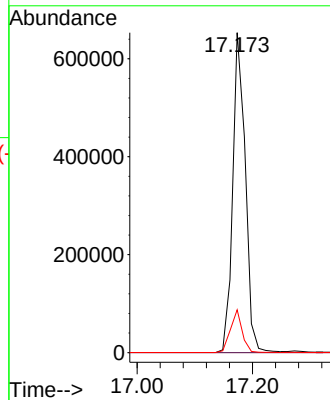
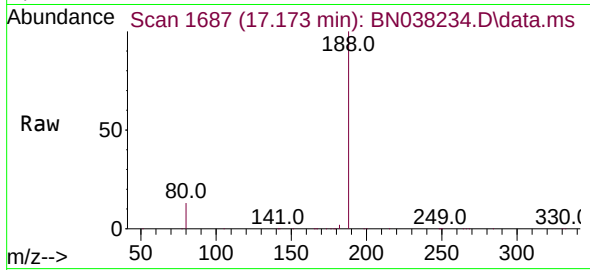
#19
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.173 min Scan# 1688
Delta R.T. -0.012 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS

Tgt Ion:188 Resp: 987075
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 7.7 11.5

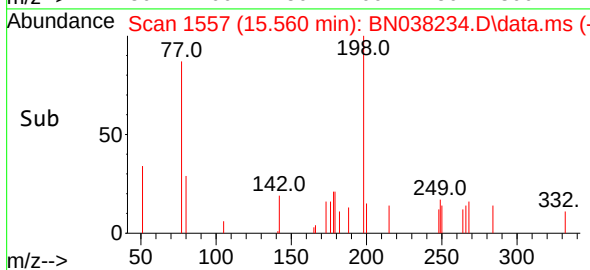
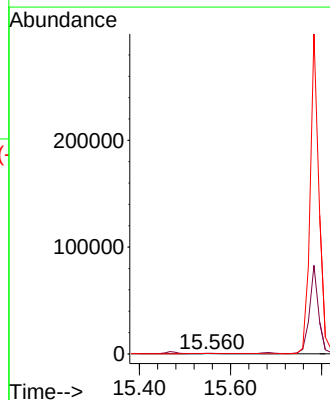
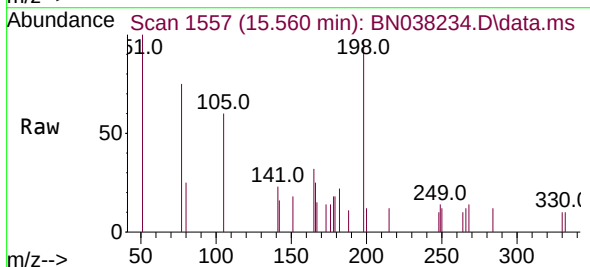
Manual Integrations
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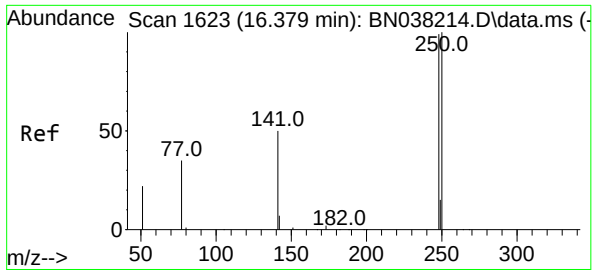
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 9.022 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

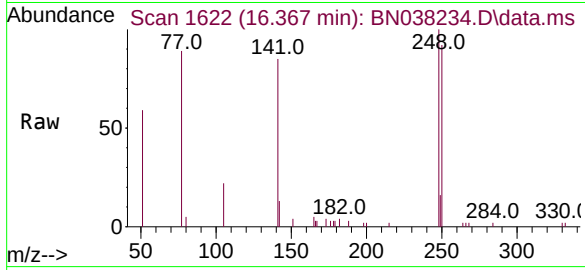
Tgt Ion:198 Resp: 852
Ion Ratio Lower Upper
198 100
51 103.3 205.1 307.7#
105 61.6 61.6 92.4#





#21
4-Bromophenyl-phenylether
Concen: 0.359 ng
RT: 16.367 min Scan# 1622
Delta R.T. -0.012 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

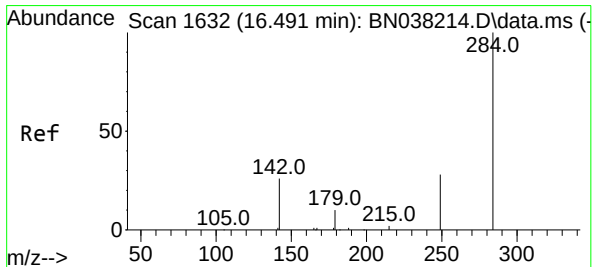
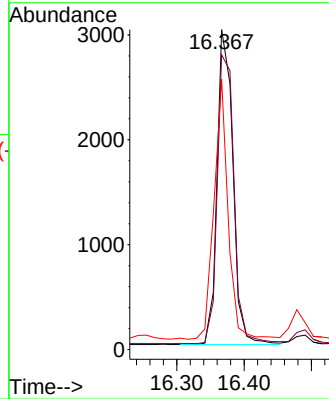
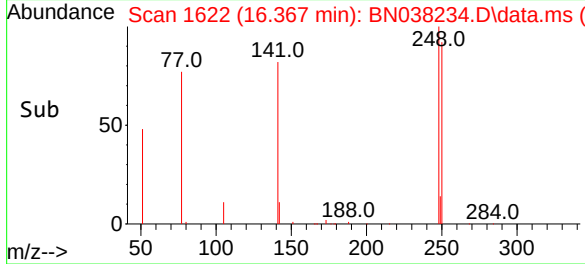
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:248 Resp: 4911
Ion Ratio Lower Upper
248 100
250 92.1 80.8 121.2
141 84.5 41.0 61.6

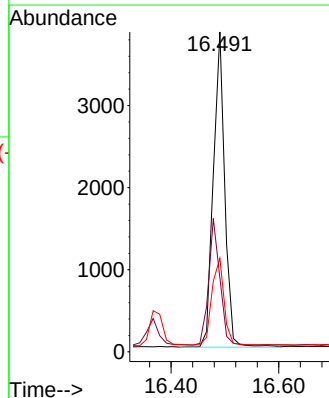
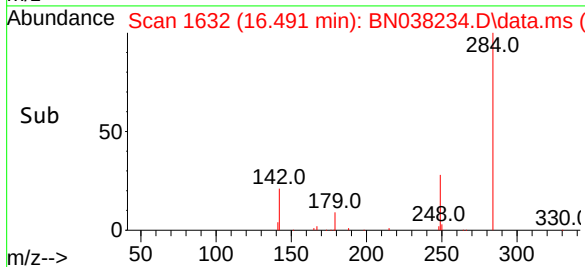
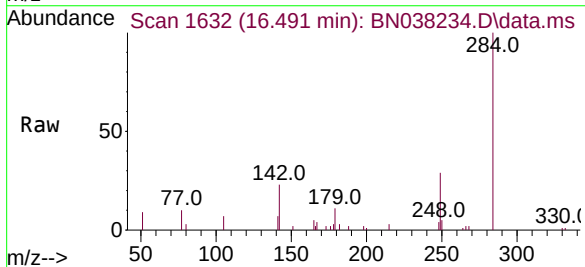
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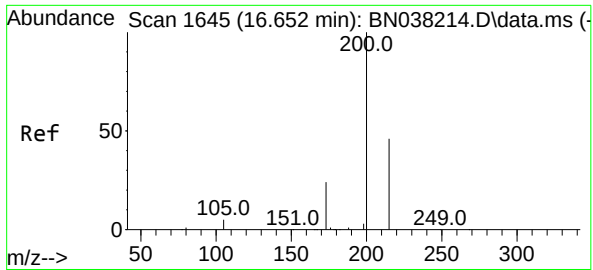
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#22
Hexachlorobenzene
Concen: 0.338 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

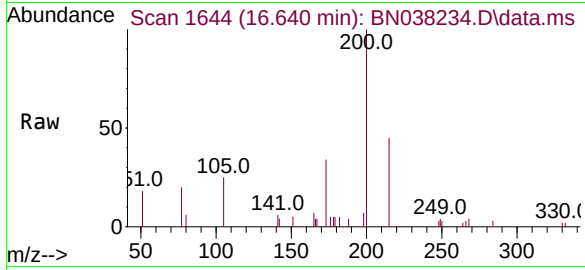
Tgt Ion:284 Resp: 5677
Ion Ratio Lower Upper
284 100
142 39.6 30.5 45.7
249 29.8 23.8 35.8





#23
Atrazine
Concen: 0.343 ng
RT: 16.640 min Scan# 1644
Delta R.T. -0.012 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

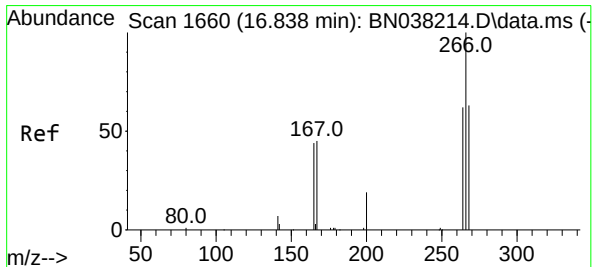
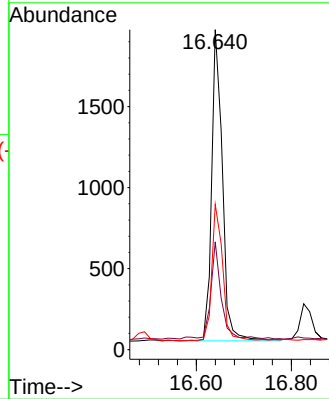
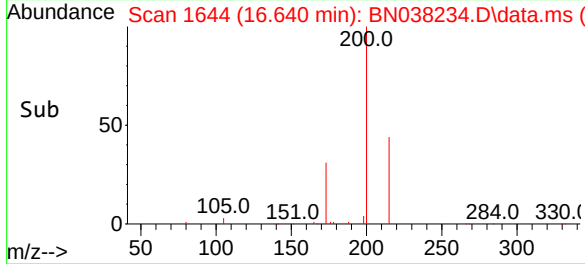
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:200 Resp: 2999
Ion Ratio Lower Upper
200 100
173 33.7 21.0 31.6
215 45.4 37.8 56.8

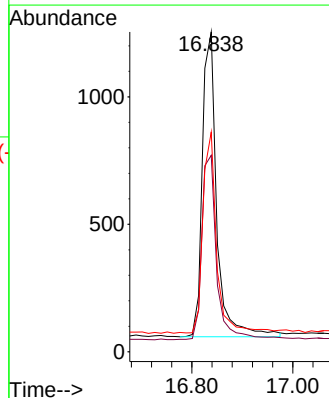
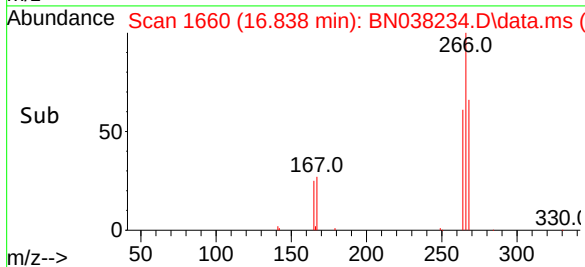
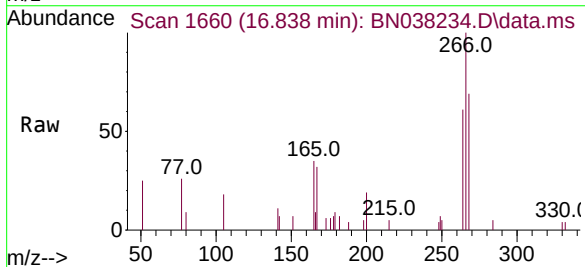
Manual Integrations
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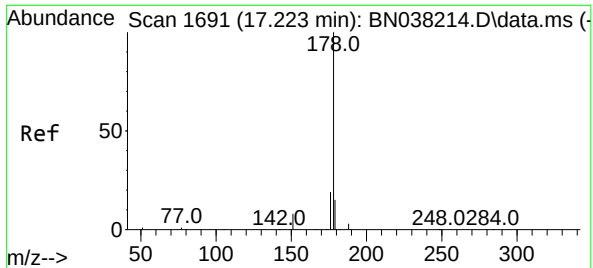
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#24
Pentachlorophenol
Concen: 0.514 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

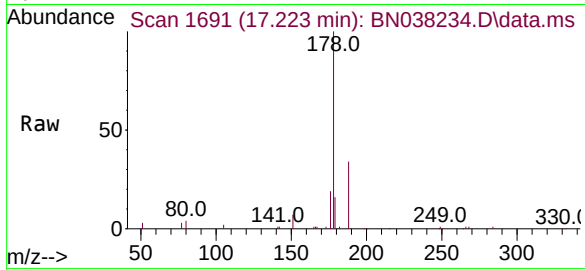
Tgt Ion:266 Resp: 2369
Ion Ratio Lower Upper
266 100
264 61.9 48.9 73.3
268 62.4 50.2 75.2





#25
Phenanthrene
Concen: 0.378 ng m
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

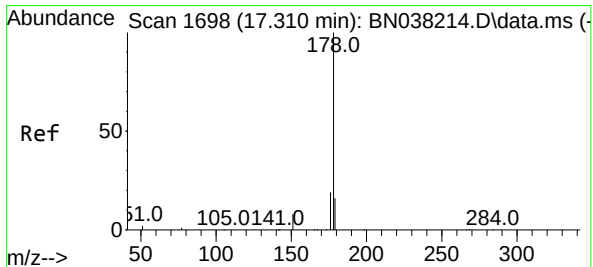
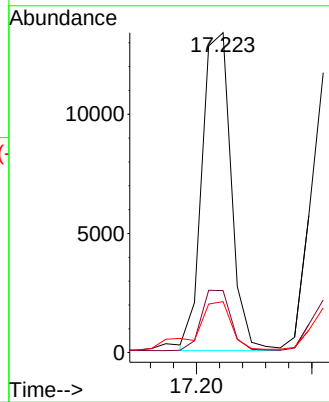
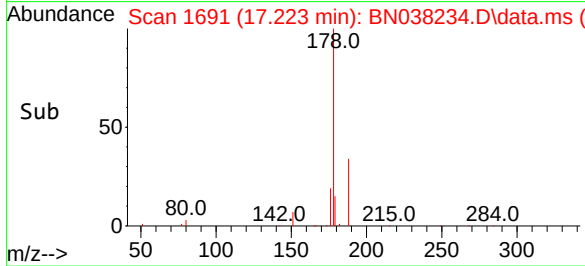
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:178 Resp: 23430
Ion Ratio Lower Upper
178 100
176 14.0 15.3 22.9
179 11.5 12.0 18.0

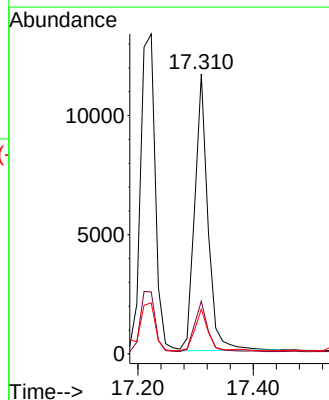
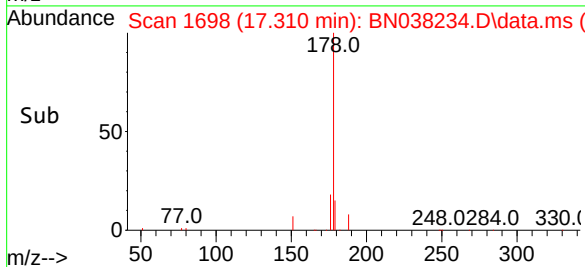
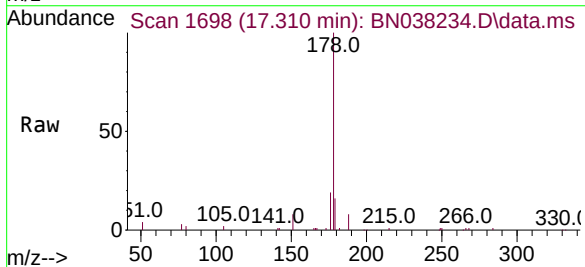
Manual Integrations
APPROVED

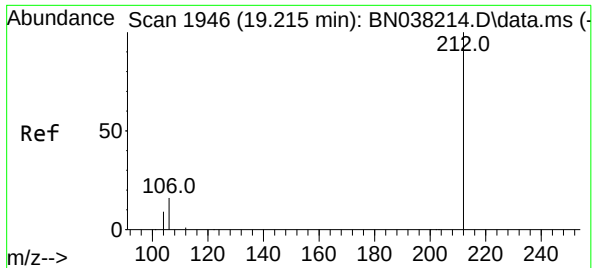
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#26
Anthracene
Concen: 0.346 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

Tgt Ion:178 Resp: 18316
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.311 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038234.D

Acq: 01 Dec 2025 20:17

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMS

Tgt Ion:212 Resp: 13298

Ion Ratio Lower Upper

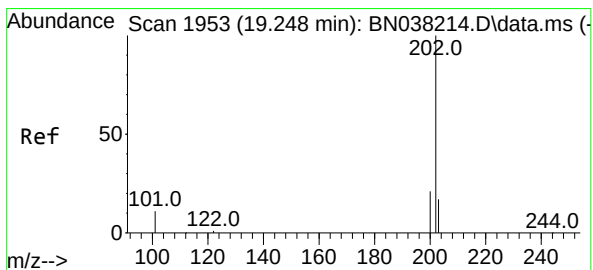
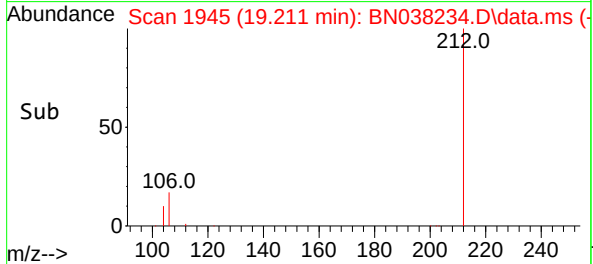
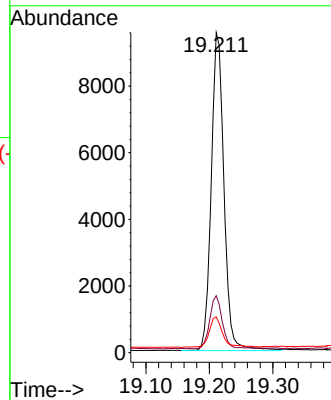
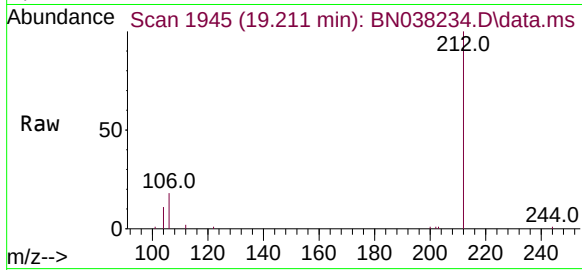
212 100

106 16.5 12.7 19.1

104 10.2 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

#28

Fluoranthene

Concen: 0.343 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038234.D

Acq: 01 Dec 2025 20:17

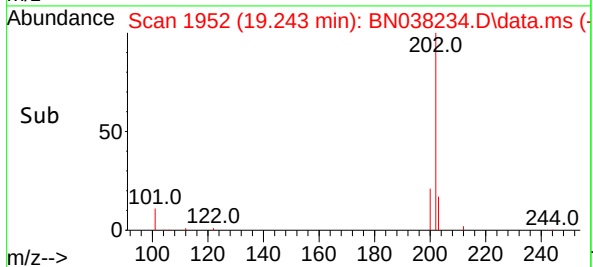
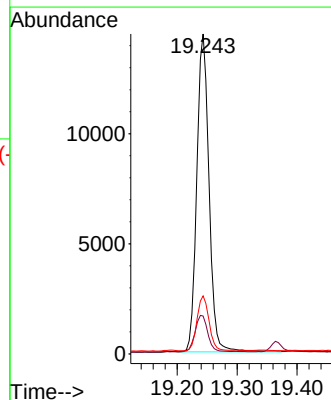
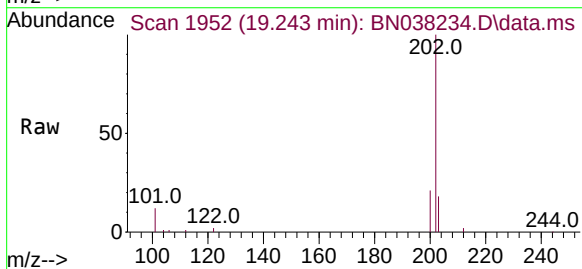
Tgt Ion:202 Resp: 20474

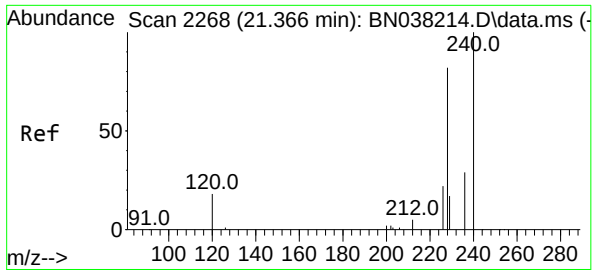
Ion Ratio Lower Upper

202 100

101 11.7 9.8 14.6

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 20.000 ng

RT: 21.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038234.D

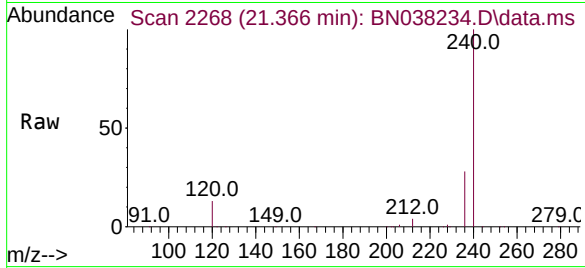
Acq: 01 Dec 2025 20:17

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMS



Tgt Ion:240 Resp: 638484

Ion Ratio Lower Upper

240 100

120 13.3 18.1 27.1

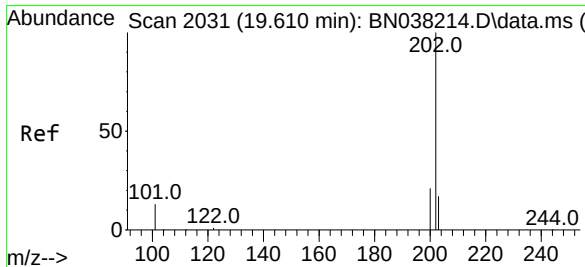
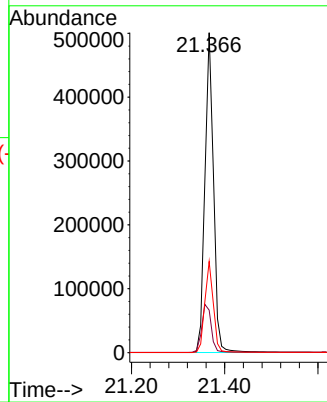
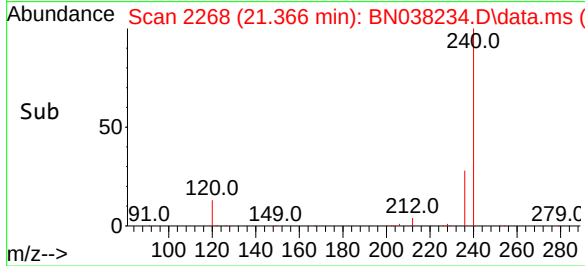
236 28.5 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025

Supervised By :mohammad ahmed 12/03/2025



#30

Pyrene

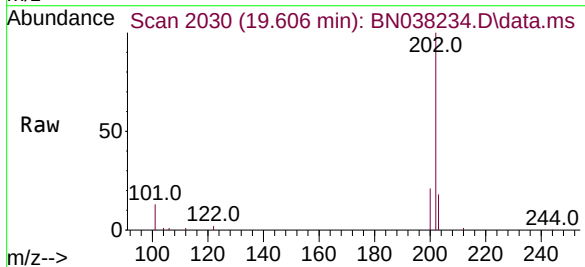
Concen: 0.327 ng

RT: 19.606 min Scan# 2030

Delta R.T. -0.005 min

Lab File: BN038234.D

Acq: 01 Dec 2025 20:17



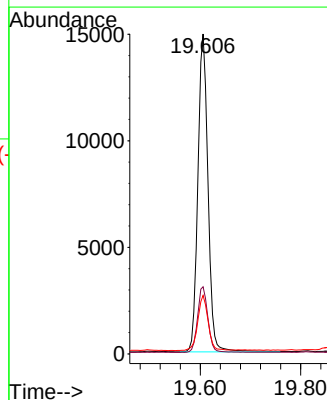
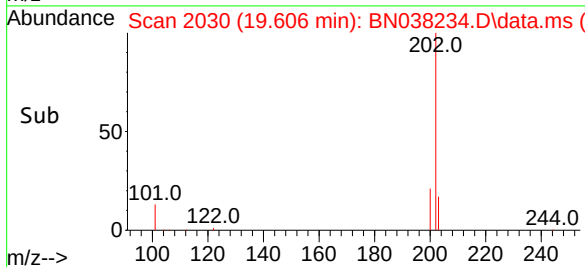
Tgt Ion:202 Resp: 20859

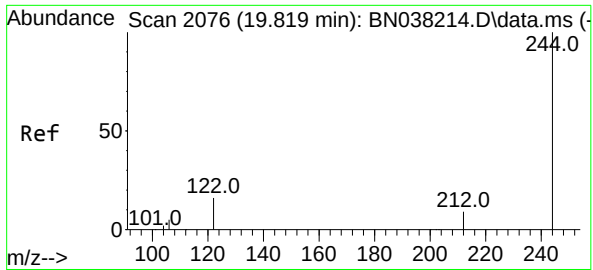
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

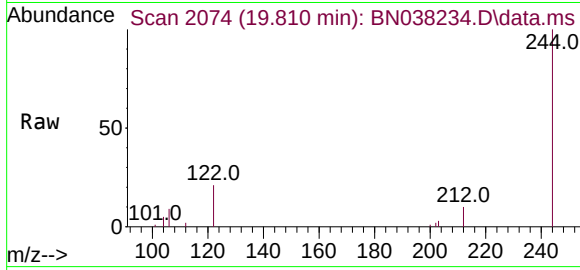
203 17.7 14.4 21.6





#31
 Terphenyl-d14
 Concen: 0.339 ng
 RT: 19.810 min Scan# 2076
 Delta R.T. -0.009 min
 Lab File: BN038234.D
 Acq: 01 Dec 2025 20:17

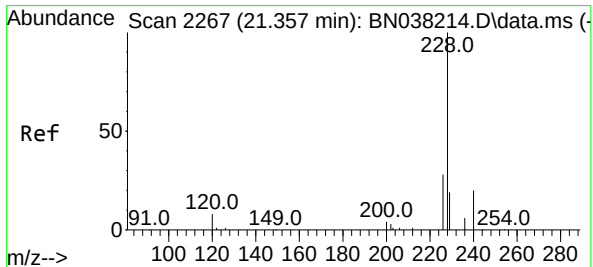
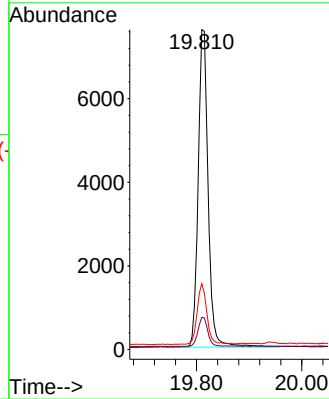
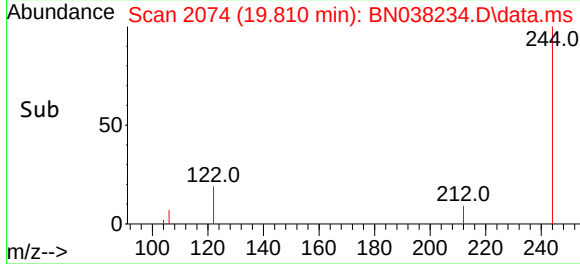
Instrument :
 BNA_N
 ClientSampleId :
 EME-GENERAL-FILLMS



Tgt Ion:244 Resp: 10000
 Ion Ratio Lower Upper
 244 100
 212 10.1 7.7 11.5
 122 20.6 13.6 20.4

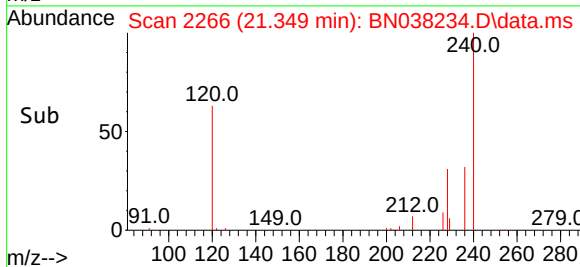
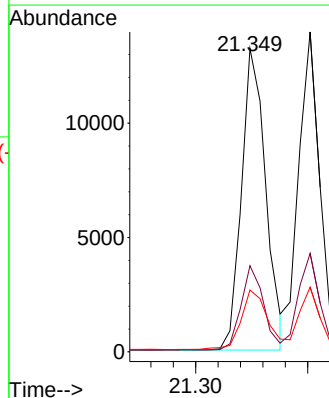
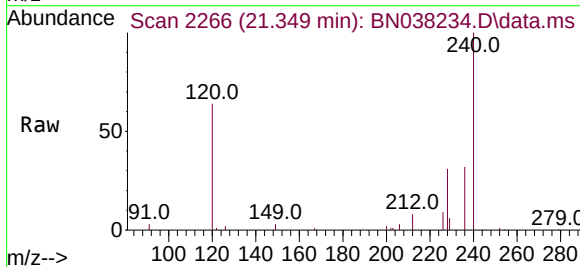
Manual Integrations
 APPROVED

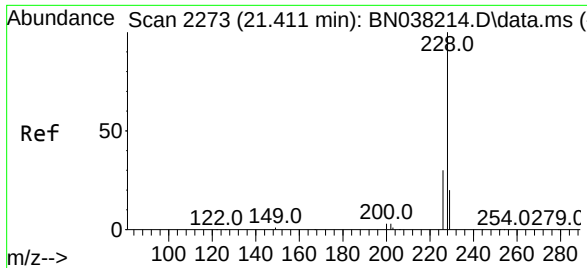
Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#32
 Benzo(a)anthracene
 Concen: 0.458 ng
 RT: 21.349 min Scan# 2266
 Delta R.T. -0.009 min
 Lab File: BN038234.D
 Acq: 01 Dec 2025 20:17

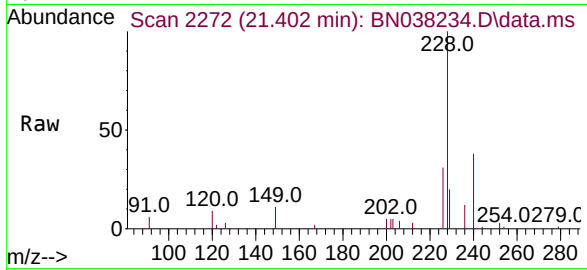
Tgt Ion:228 Resp: 19800
 Ion Ratio Lower Upper
 228 100
 226 28.4 22.6 33.8
 229 20.4 15.8 23.8





#33
Chrysene
Concen: 0.362 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

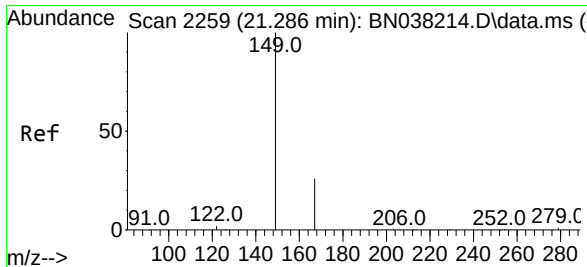
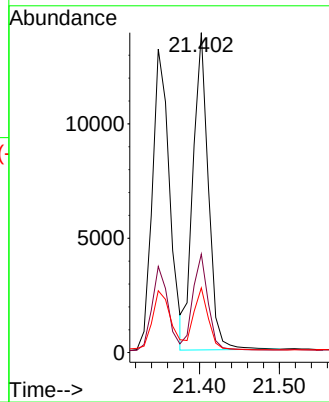
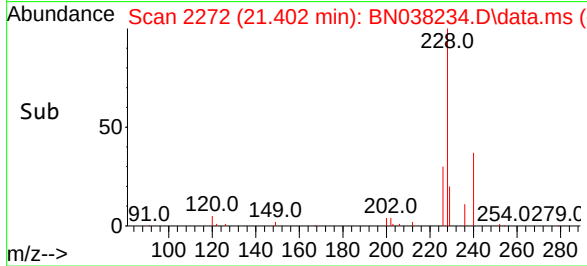
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:228 Resp: 18476
Ion Ratio Lower Upper
228 100
226 30.8 23.8 35.8
229 20.2 16.1 24.1

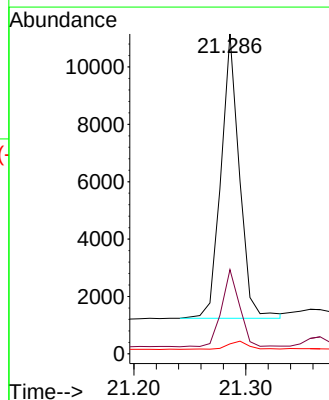
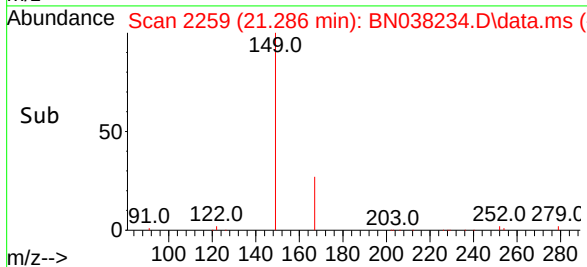
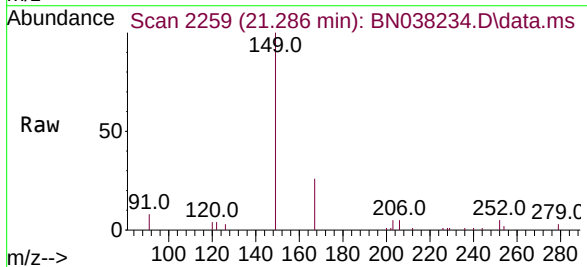
Manual Integrations
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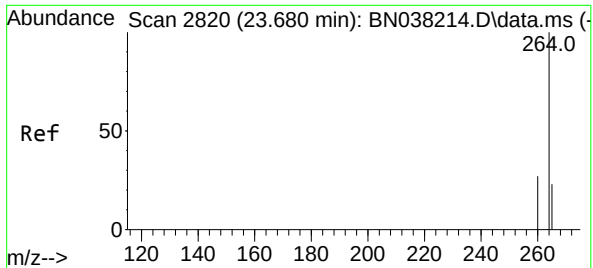
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.479 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

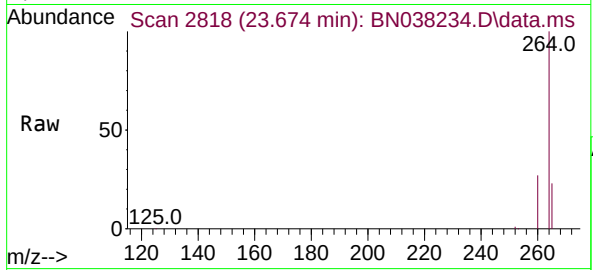
Tgt Ion:149 Resp: 11351
Ion Ratio Lower Upper
149 100
167 26.2 20.7 31.1
279 3.2 2.5 3.7





#35
Perylene-d12
Concen: 20.000 ng
RT: 23.674 min Scan# 2818
Delta R.T. -0.006 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

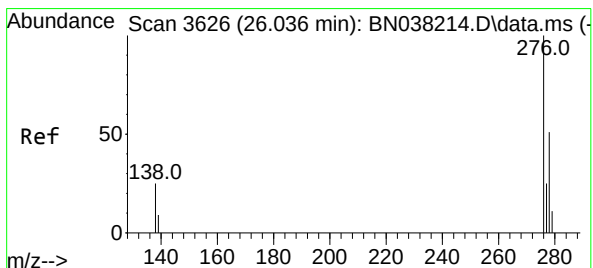
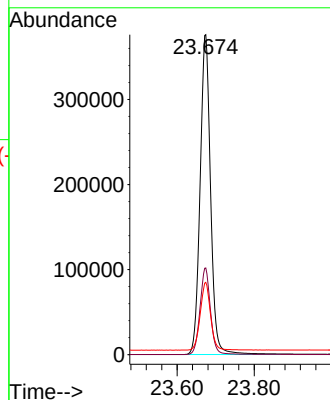
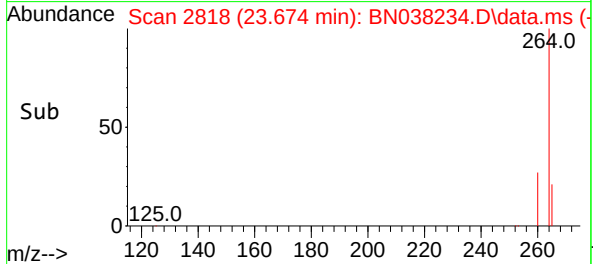
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:264 Resp: 707894
Ion Ratio Lower Upper
264 100
260 27.1 21.7 32.5
265 22.6 98.0 147.0

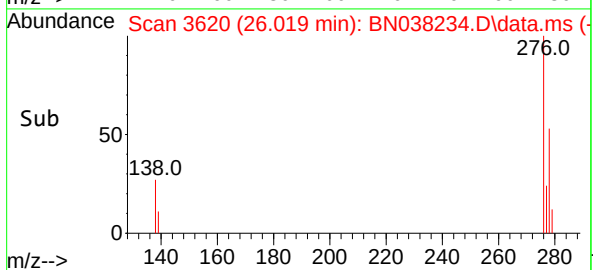
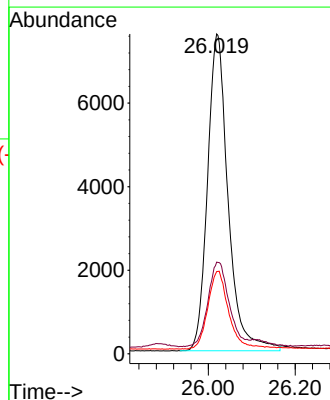
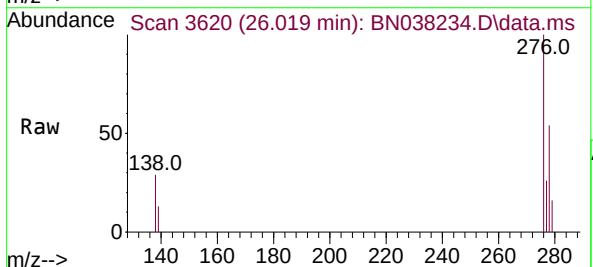
Manual Integrations
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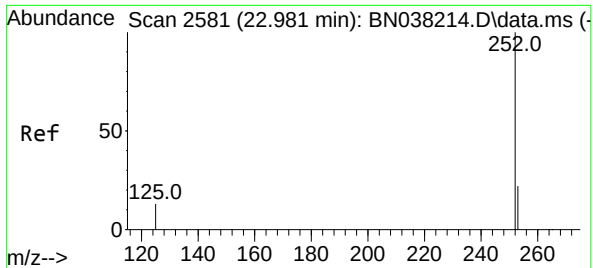
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 26.019 min Scan# 3620
Delta R.T. -0.017 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

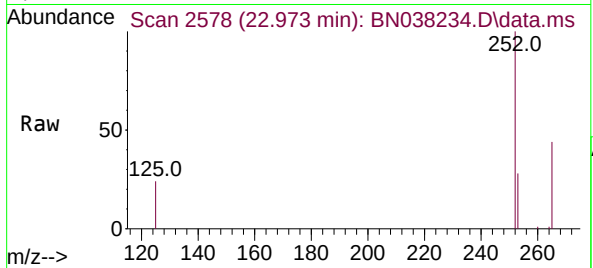
Tgt Ion:276 Resp: 24968
Ion Ratio Lower Upper
276 100
138 27.6 21.4 32.2
277 24.3 19.1 28.7





#37
Benzo(b)fluoranthene
Concen: 0.344 ng
RT: 22.973 min Scan# 2578
Delta R.T. -0.009 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

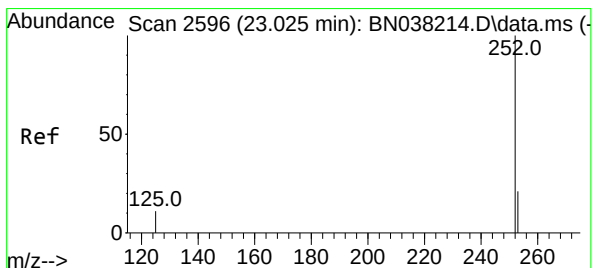
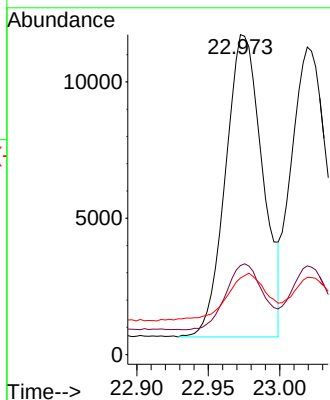
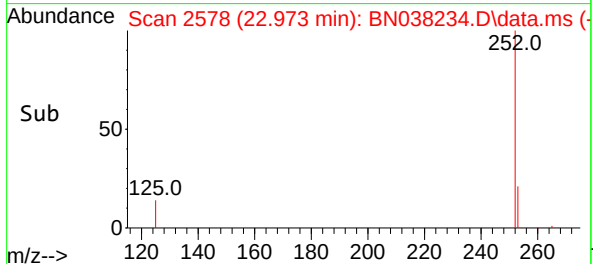
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMS



Tgt Ion:252 Resp: 20010
Ion Ratio Lower Upper
252 100
253 27.8 22.2 33.4
125 23.9 18.0 27.0

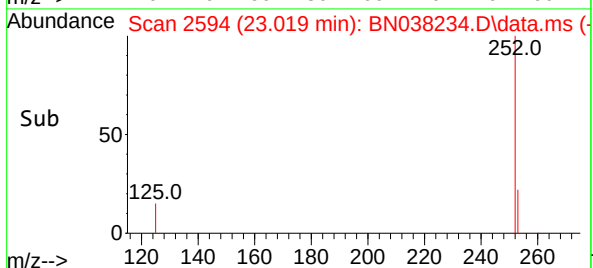
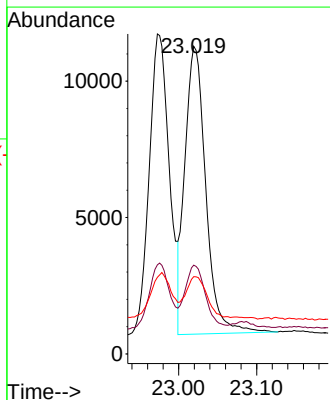
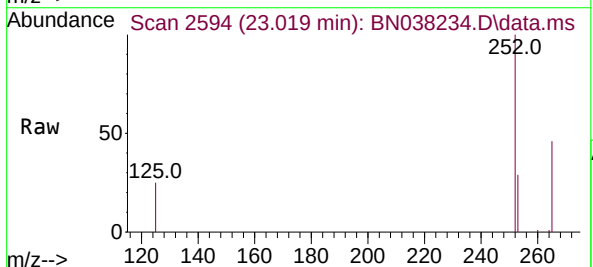
Manual Integrations
APPROVED

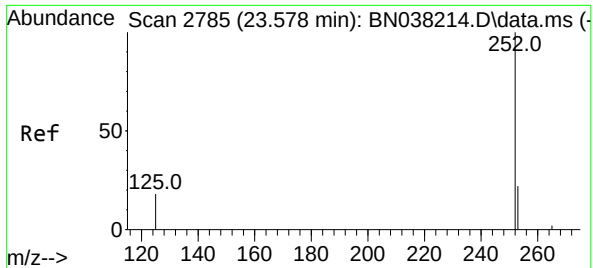
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#38
Benzo(k)fluoranthene
Concen: 0.325 ng
RT: 23.019 min Scan# 2594
Delta R.T. -0.006 min
Lab File: BN038234.D
Acq: 01 Dec 2025 20:17

Tgt Ion:252 Resp: 19631
Ion Ratio Lower Upper
252 100
253 28.8 22.4 33.6
125 25.1 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.353 ng

RT: 23.569 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038234.D

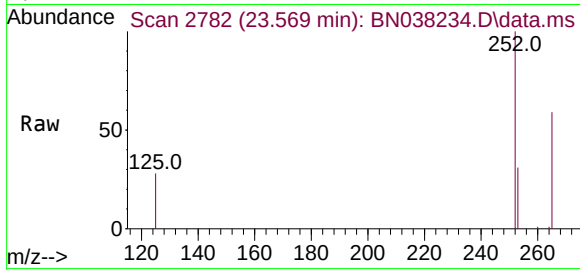
Acq: 01 Dec 2025 20:17

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMS



Tgt Ion:252 Resp: 17215

Ion Ratio Lower Upper

252 100

253 30.8 25.3 37.9

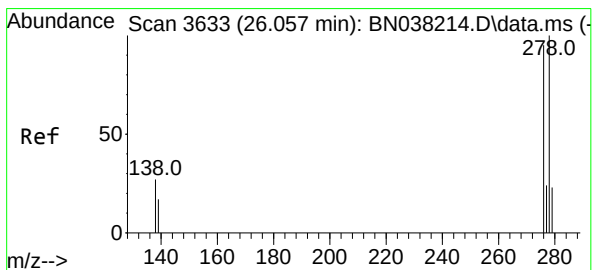
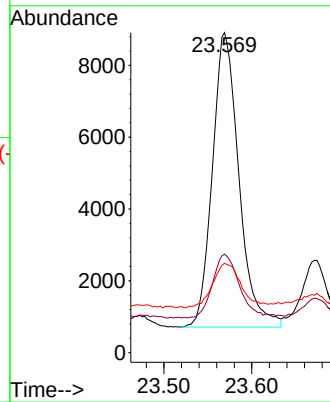
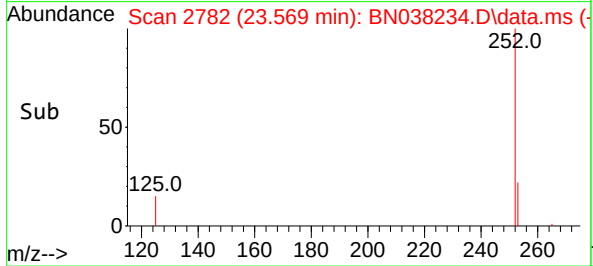
125 27.9 25.2 37.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025

Supervised By :mohammad ahmed 12/03/2025



#40

Dibenzo(a,h)anthracene

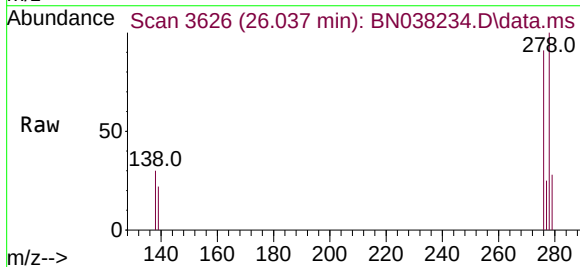
Concen: 0.384 ng

RT: 26.037 min Scan# 3626

Delta R.T. -0.020 min

Lab File: BN038234.D

Acq: 01 Dec 2025 20:17



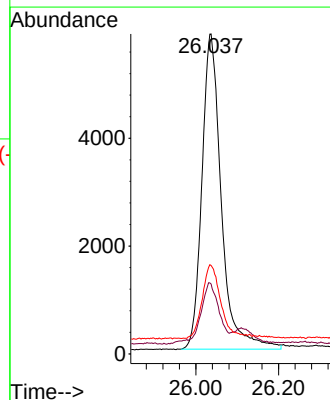
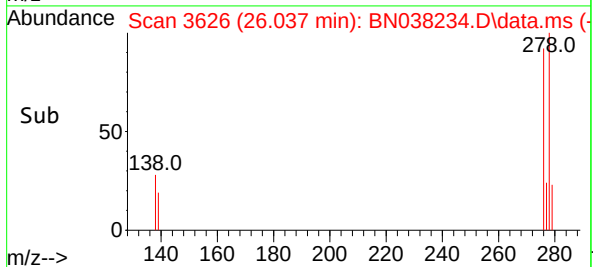
Tgt Ion:278 Resp: 19064

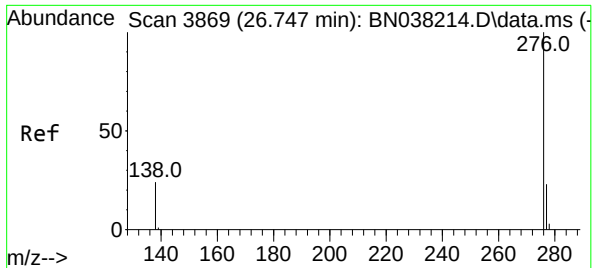
Ion Ratio Lower Upper

278 100

139 21.8 17.6 26.4

279 27.6 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.356 ng

RT: 26.738 min Scan# 38

Delta R.T. -0.009 min

Lab File: BN038234.D

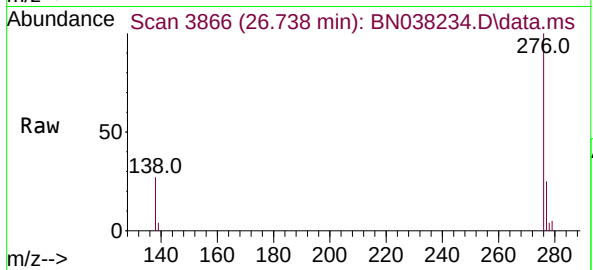
Acq: 01 Dec 2025 20:17

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMS



Tgt Ion:276 Resp: 21099

Ion Ratio Lower Upper

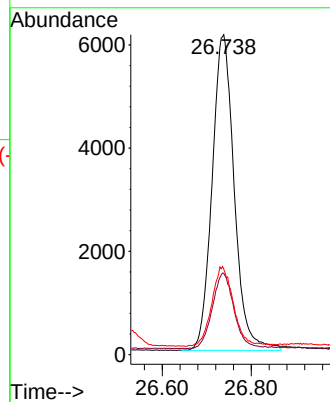
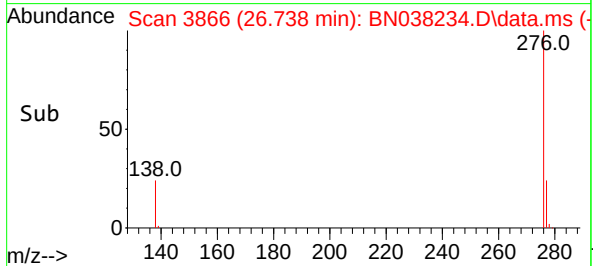
276 100

277 25.4 20.2 30.2

138 26.7 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



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

Report of Analysis

Client: Alliance Technical Group, LLC - Newark
Project: NJ Soil PT
Client Sample ID: EME-GENERAL-FILLMSD
Lab Sample ID: Q3618-02MSD
Analytical Method: SW8270ESIM Level: LOW
Sample Wt/Vol: 30.06 g Final Vol: 1000 uL
Prep Method : sw3541 Prep Date: 11/18/25

Date Collected: 11/12/25
Date Received: 11/12/25
SDG No.: Q3483
Matrix: SOIL
% Solid: 88.2
Test: SVOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
91-20-3	Naphthalene	14.7		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
91-57-6	2-Methylnaphthalene	12.8		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
208-96-8	Acenaphthylene	14.2		1	1.20	3.70	ug/Kg	12/01/25 20:53	PB170590
83-32-9	Acenaphthene	14.0		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
86-73-7	Fluorene	13.0		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
85-01-8	Phenanthrene	15.5		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
120-12-7	Anthracene	14.2		1	1.40	3.70	ug/Kg	12/01/25 20:53	PB170590
206-44-0	Fluoranthene	13.9		1	1.30	3.70	ug/Kg	12/01/25 20:53	PB170590
129-00-0	Pyrene	13.5		1	1.20	3.70	ug/Kg	12/01/25 20:53	PB170590
56-55-3	Benzo(a)anthracene	18.8		1	1.50	3.70	ug/Kg	12/01/25 20:53	PB170590
218-01-9	Chrysene	14.9		1	1.60	3.70	ug/Kg	12/01/25 20:53	PB170590
205-99-2	Benzo(b)fluoranthene	13.8		1	1.80	3.70	ug/Kg	12/01/25 20:53	PB170590
207-08-9	Benzo(k)fluoranthene	13.4		1	2.10	3.70	ug/Kg	12/01/25 20:53	PB170590
50-32-8	Benzo(a)pyrene	14.4		1	1.60	3.70	ug/Kg	12/01/25 20:53	PB170590
193-39-5	Indeno(1,2,3-cd)pyrene	15.8		1	2.00	3.70	ug/Kg	12/01/25 20:53	PB170590
53-70-3	Dibenzo(a,h)anthracene	16.0		1	2.00	3.70	ug/Kg	12/01/25 20:53	PB170590
191-24-2	Benzo(g,h,i)perylene	14.6		1	1.90	3.70	ug/Kg	12/01/25 20:53	PB170590
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.36			17 - 161	90%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			23 - 138	83%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			33 - 121	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.39			32 - 121	97%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.37			21 - 130	92%	SPK: 0.4		
INTERNAL STANDARDS									
		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	8230							
1146-65-2	Naphthalene-d8	24800							
15067-26-2	Acenaphthene-d10	12700							
1517-22-2	Phenanthrene-d10	18500							
1719-03-5	Chrysene-d12	11800							
1520-96-3	Perylene-d12	13400							

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\BN120125\
 Data File : BN038235.D
 Acq On : 01 Dec 2025 20:53
 Operator : RC/JU
 Sample : Q3618-02MSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 50

Instrument :
 BNA_N
 ClientSampleId :
 EME-GENERAL-FILLMSD

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025

Quant Time: Dec 02 01:18:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	411698	20.000	ng	0.00
7) Naphthalene-d8	10.562	136	1239074	20.000	ng	#-0.01
13) Acenaphthene-d10	14.430	164	634558	20.000	ng	0.00
19) Phenanthrene-d10	17.173	188	924185	20.000	ng	#-0.01
29) Chrysene-d12	21.366	240	590927	20.000	ng	# 0.00
35) Perylene-d12	23.671	264	671792	20.000	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.341	112	7235	0.376	ng	0.00
5) Phenol-d6	6.930	99	8920	0.371	ng	0.00
8) Nitrobenzene-d5	8.918	82	7229	0.365	ng	0.00
11) 2-Methylnaphthalene-d10	12.162	152	12636	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1378	0.345	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	19101	0.390	ng	-0.01
27) Fluoranthene-d10	19.211	212	13363	0.333	ng	0.00
31) Terphenyl-d14	19.815	244	10068	0.369	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	3252	0.375	ng	# 67
3) n-Nitrosodimethylamine	3.557	42	4421	0.413	ng	# 96
6) bis(2-Chloroethyl)ether	7.183	93	9558	0.415	ng	98
9) Naphthalene	10.616	128	26874	0.391	ng	100
10) Hexachlorobutadiene	10.914	225	4642	0.397	ng	# 99
12) 2-Methylnaphthalene	12.238	142	15342	0.339	ng	100
16) Acenaphthylene	14.142	152	21360	0.376	ng	99
17) Acenaphthene	14.484	154	14672	0.371	ng	98
18) Fluorene	15.478	166	17594	0.344	ng	99
20) 4,6-Dinitro-2-methylph...	15.560	198	876	9.063	ng	# 29
21) 4-Bromophenyl-phenylether	16.366	248	4999	0.390	ng	# 79
22) Hexachlorobenzene	16.491	284	5719	0.363	ng	98
23) Atrazine	16.640	200	3128	0.382	ng	# 93
24) Pentachlorophenol	16.838	266	2420	0.561	ng	98
25) Phenanthrene	17.223	178	23765m	0.410	ng	
26) Anthracene	17.310	178	18592	0.376	ng	99
28) Fluoranthene	19.243	202	20607	0.368	ng	99
30) Pyrene	19.606	202	21180	0.359	ng	100
32) Benzo(a)anthracene	21.348	228	19971	0.499	ng	100
33) Chrysene	21.402	228	18621	0.394	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	11432	0.522	ng	99
36) Indeno(1,2,3-cd)pyrene	26.016	276	26034	0.419	ng	99
37) Benzo(b)fluoranthene	22.972	252	20132	0.365	ng	98
38) Benzo(k)fluoranthene	23.019	252	20327	0.355	ng	97
39) Benzo(a)pyrene	23.566	252	17697	0.383	ng	95
40) Dibenzo(a,h)anthracene	26.034	278	19902	0.423	ng	97
41) Benzo(g,h,i)perylene	26.732	276	21732	0.386	ng	99

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

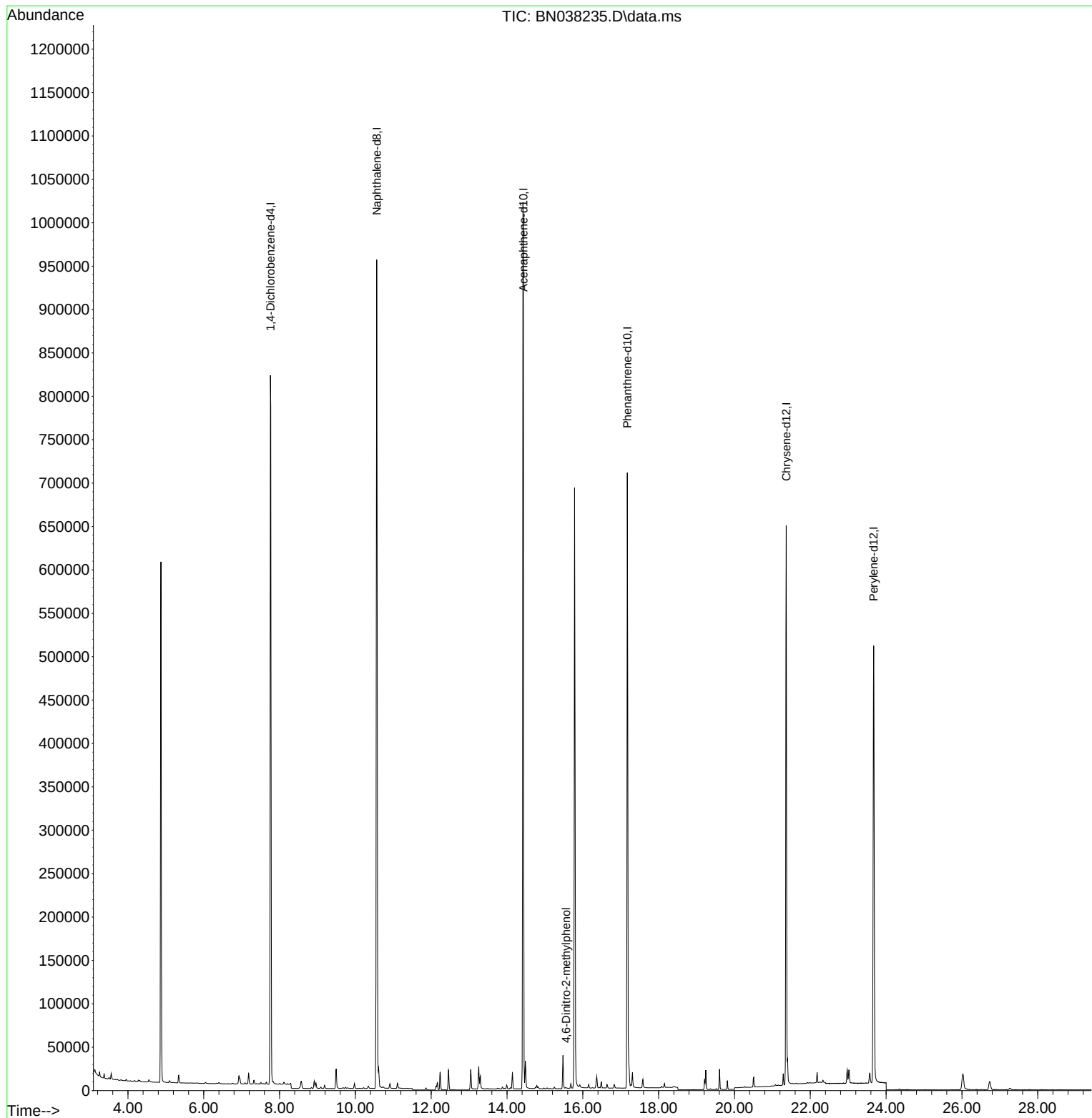
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Acq On : 01 Dec 2025 20:53
Operator : RC/JU
Sample : Q3618-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 50

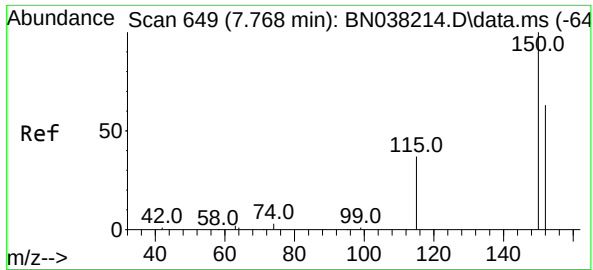
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

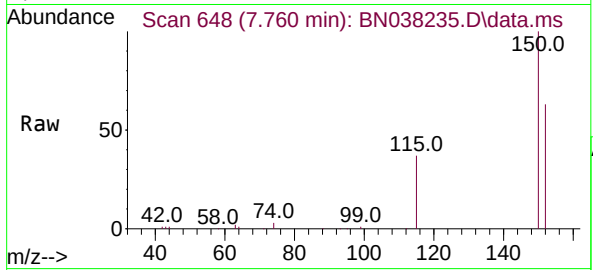
Quant Time: Dec 02 01:18:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.760 min Scan# 649
Delta R.T. -0.008 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

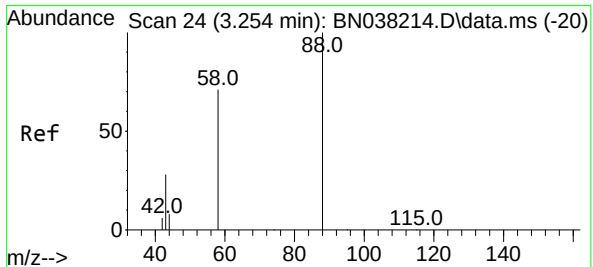
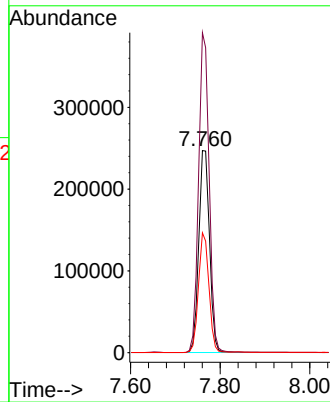
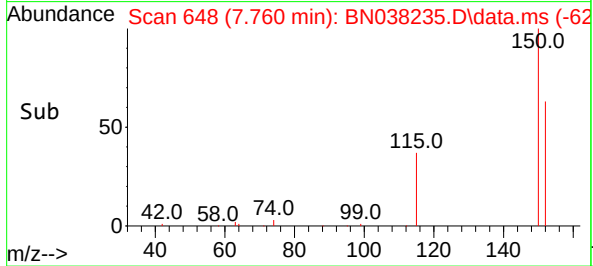
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:152 Resp: 411698
Ion Ratio Lower Upper
152 100
150 158.4 125.3 187.9
115 59.3 49.0 73.4

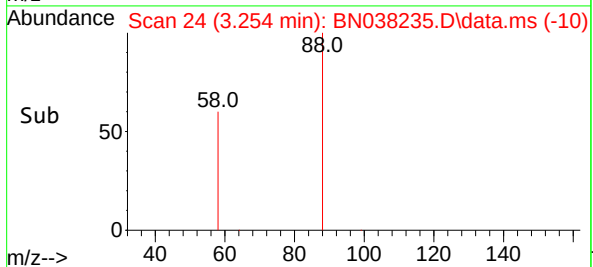
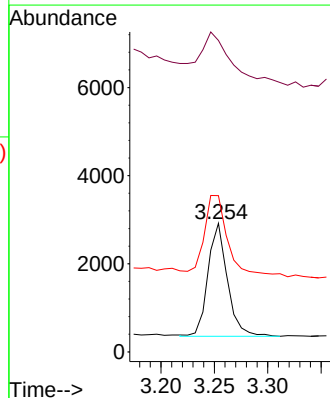
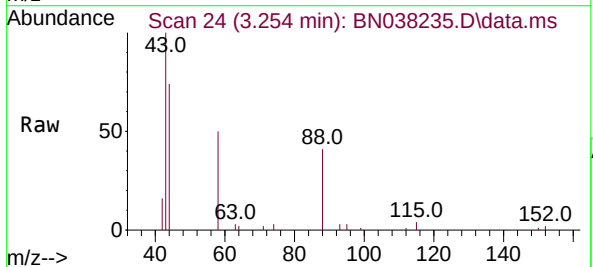
Manual Integrations
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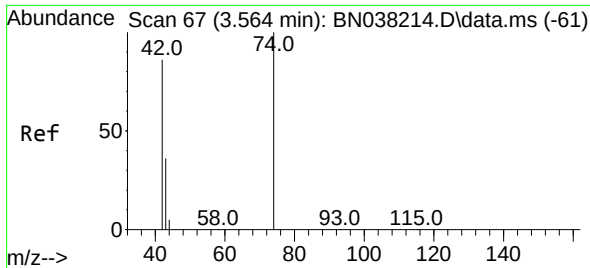
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#2
1,4-Dioxane
Concen: 0.375 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

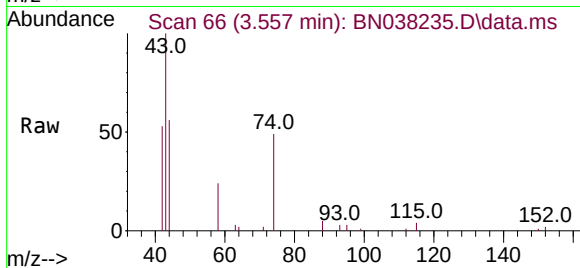
Tgt Ion: 88 Resp: 3252
Ion Ratio Lower Upper
88 100
43 76.2 24.8 37.2#
58 87.9 61.1 91.7





#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.557 min Scan# 60
Delta R.T. -0.007 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

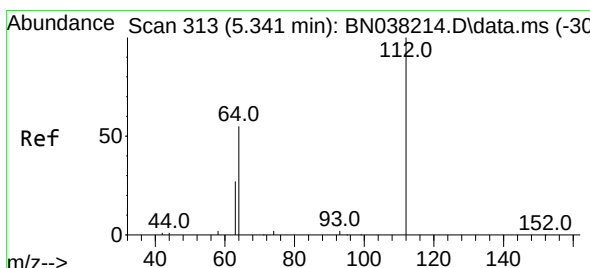
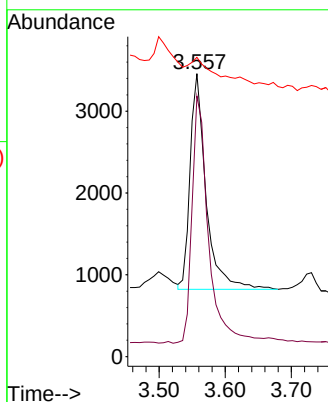
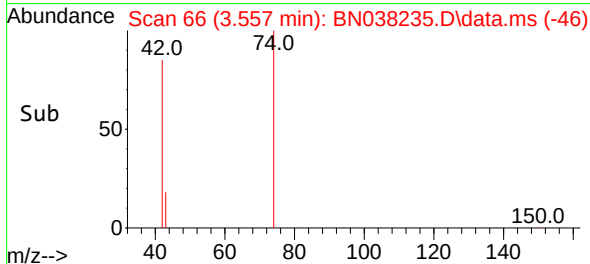
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion: 42 Resp: 442
Ion Ratio Lower Upper
42 100
74 119.1 96.2 144.2
44 23.9 8.0 12.0

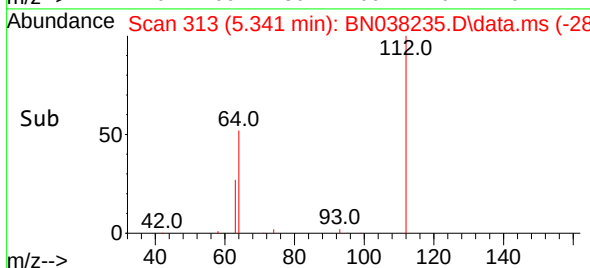
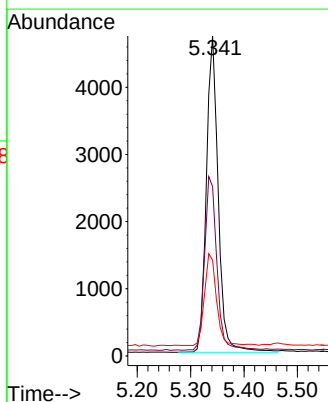
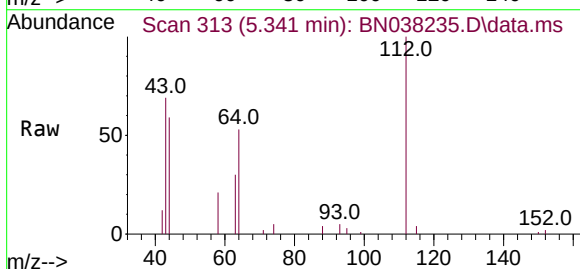
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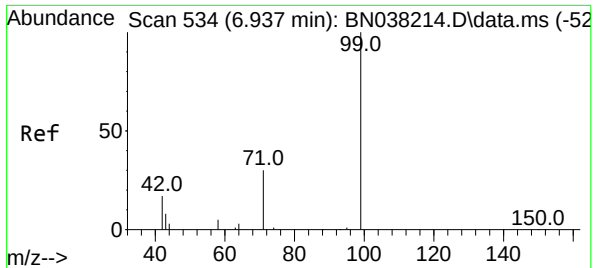
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

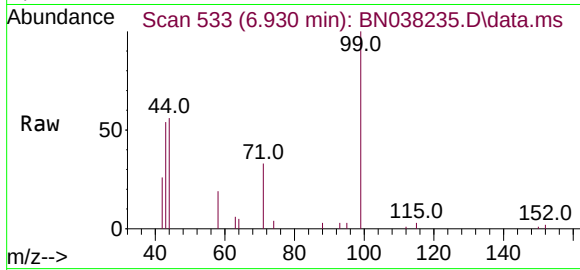
Tgt Ion:112 Resp: 7235
Ion Ratio Lower Upper
112 100
64 56.7 45.0 67.4
63 29.2 23.2 34.8





#5
Phenol-d6
Concen: 0.371 ng
RT: 6.930 min Scan# 534
Delta R.T. -0.007 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

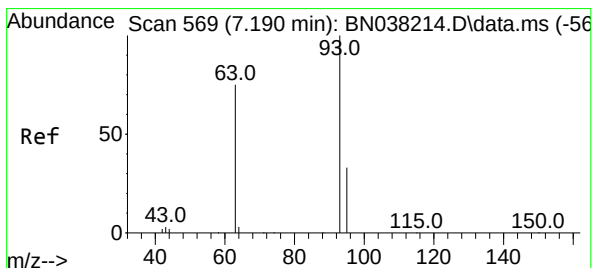
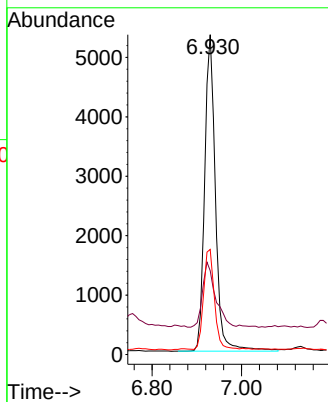
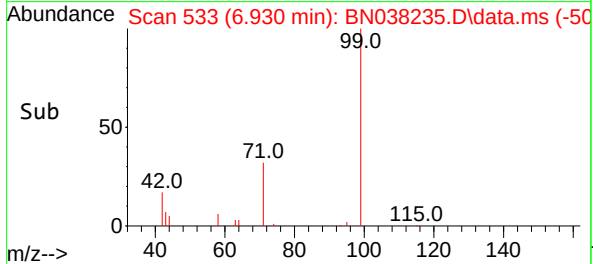
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion: 99 Resp: 8920
Ion Ratio Lower Upper
99 100
42 24.6 17.0 25.6
71 31.2 25.4 38.2

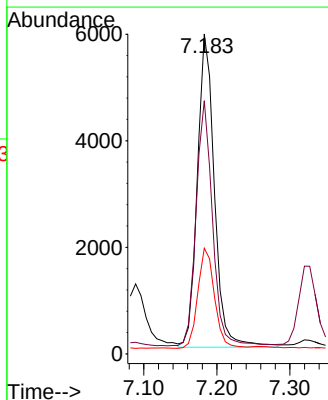
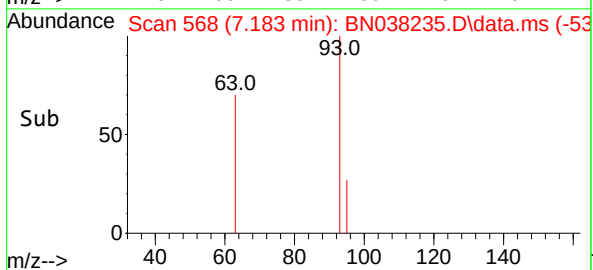
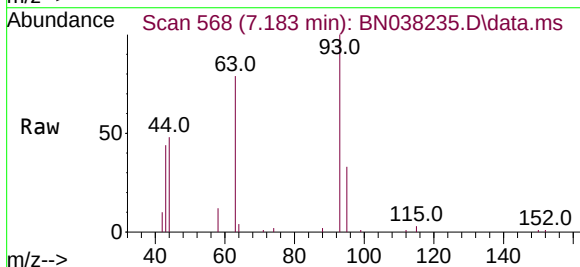
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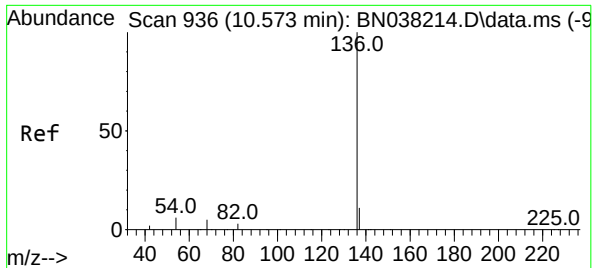
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

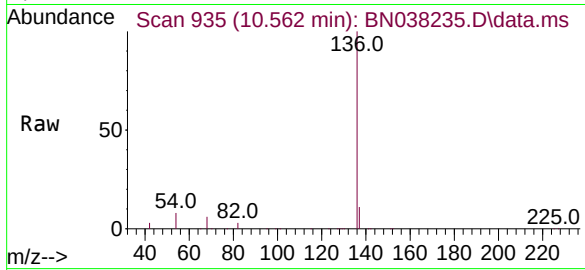
Tgt Ion: 93 Resp: 9558
Ion Ratio Lower Upper
93 100
63 75.2 58.1 87.1
95 31.3 25.1 37.7





#7
Naphthalene-d8
Concen: 20.000 ng
RT: 10.562 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

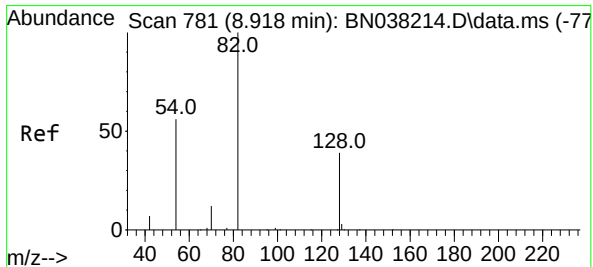
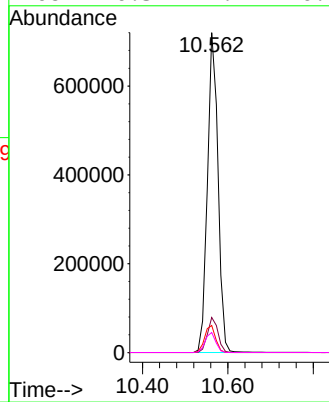
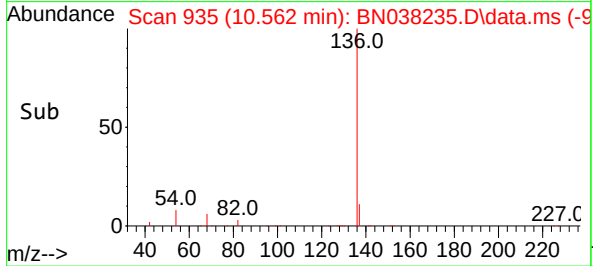
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:136 Resp: 1239074
Ion Ratio Lower Upper
136 100
137 11.0 8.9 13.3
54 8.5 5.4 8.0
68 6.3 4.1 6.1

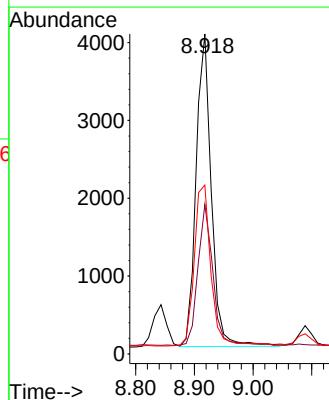
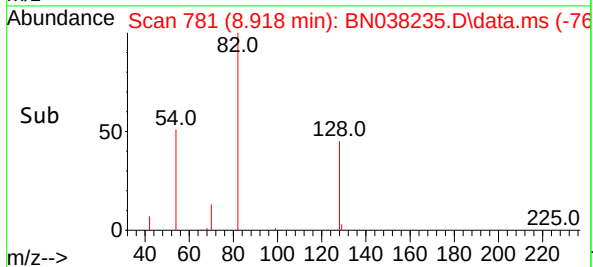
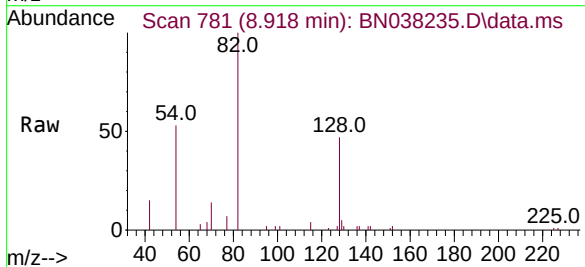
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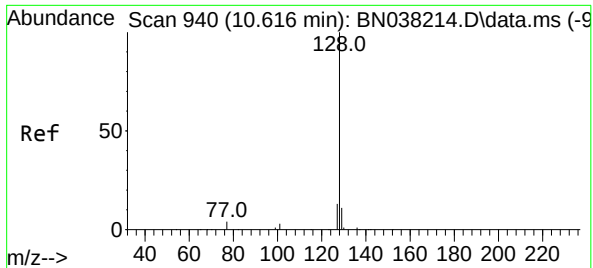
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#8
Nitrobenzene-d5
Concen: 0.365 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Tgt Ion: 82 Resp: 7229
Ion Ratio Lower Upper
82 100
128 46.7 32.6 48.8
54 52.8 45.4 68.0





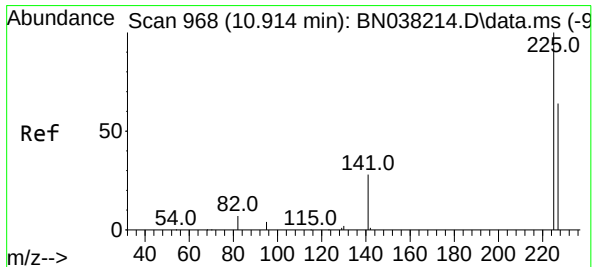
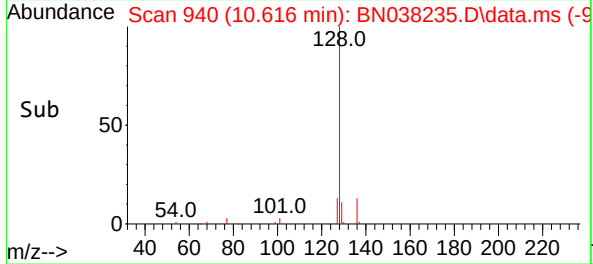
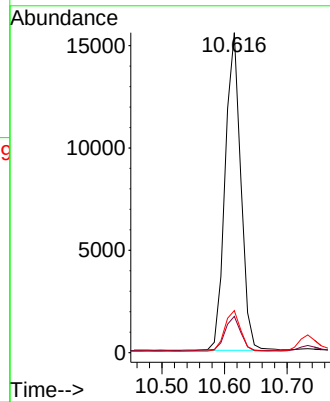
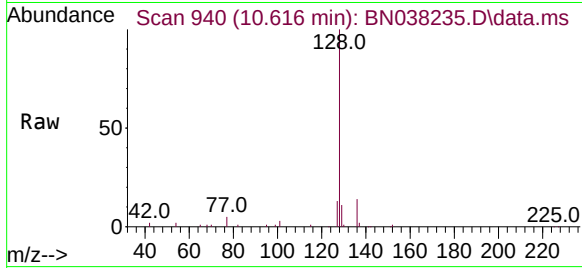
#9
Naphthalene
Concen: 0.391 ng
RT: 10.616 min Scan# 940
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD

Tgt Ion:128 Resp: 26874
Ion Ratio Lower Upper
128 100
129 11.4 9.1 13.7
127 13.1 10.6 16.0

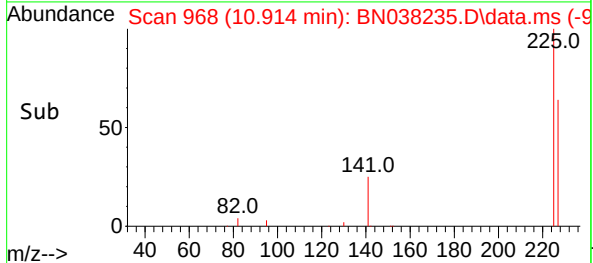
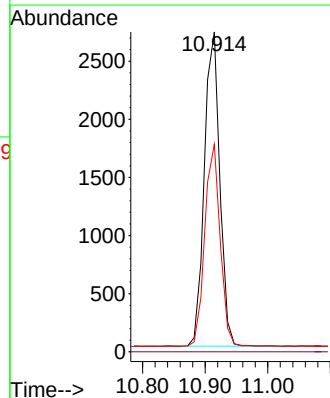
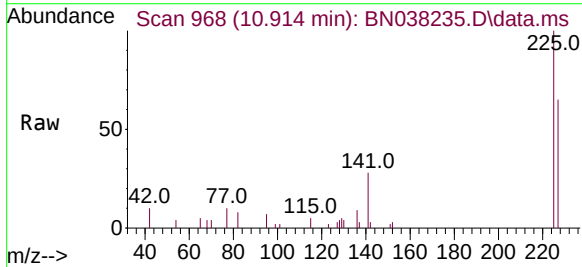
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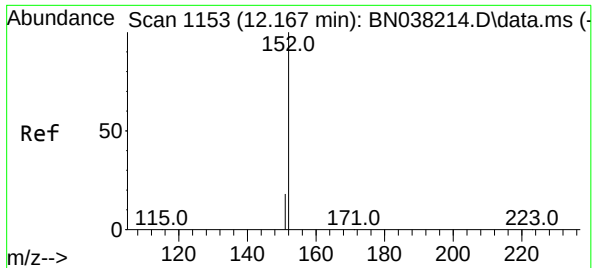
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#10
Hexachlorobutadiene
Concen: 0.397 ng
RT: 10.914 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

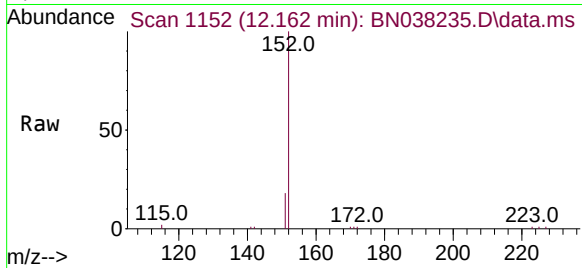
Tgt Ion:225 Resp: 4642
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.5 75.7





#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

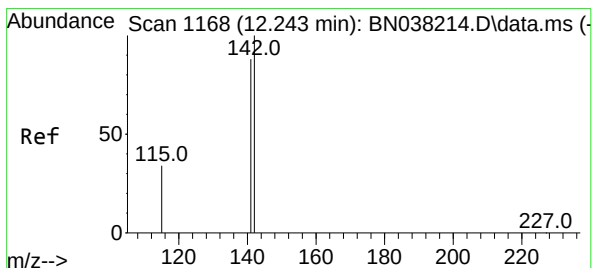
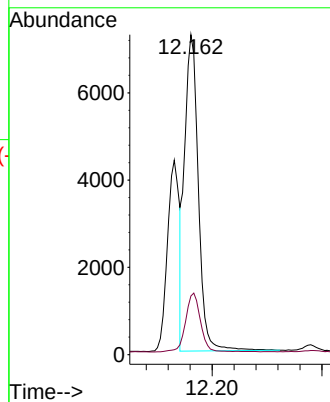
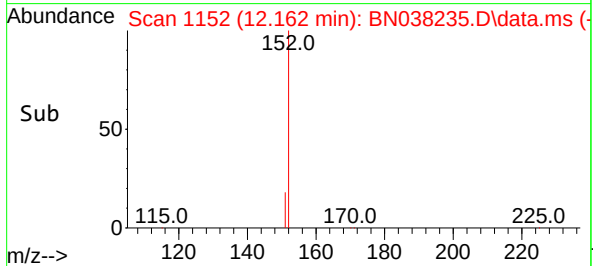
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:152 Resp: 12636
Ion Ratio Lower Upper
152 100
151 20.2 16.7 25.1

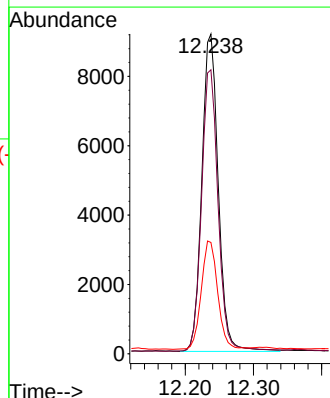
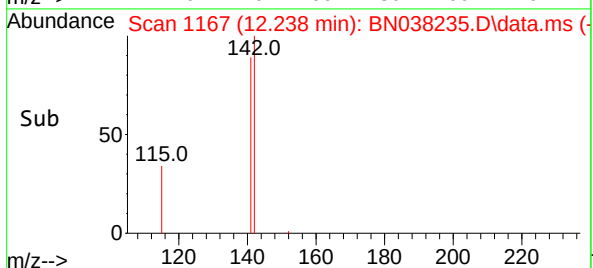
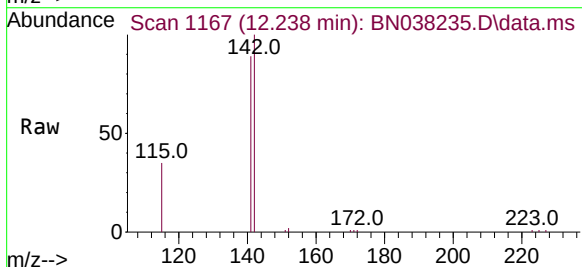
Manual Integrations
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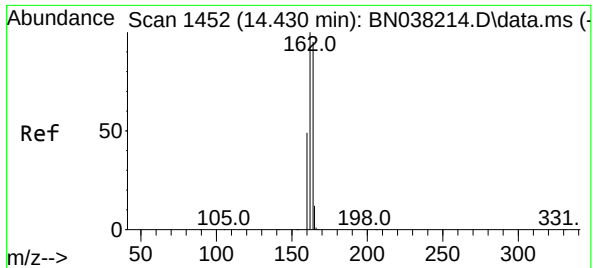
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#12
2-Methylnaphthalene
Concen: 0.339 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

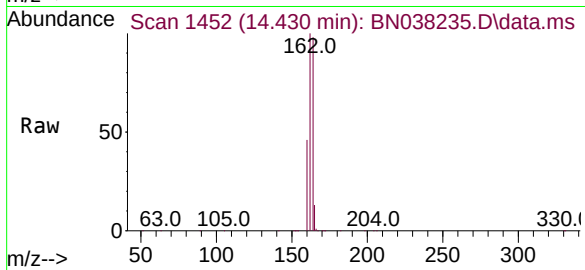
Tgt Ion:142 Resp: 15342
Ion Ratio Lower Upper
142 100
141 88.8 70.9 106.3
115 34.8 27.7 41.5





#13
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

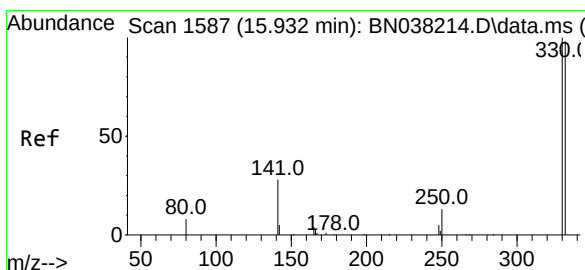
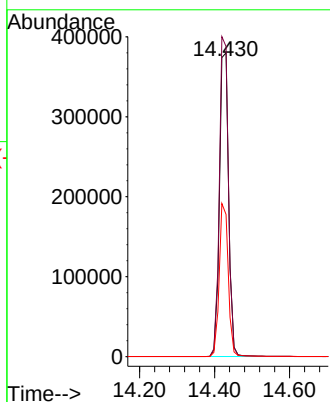
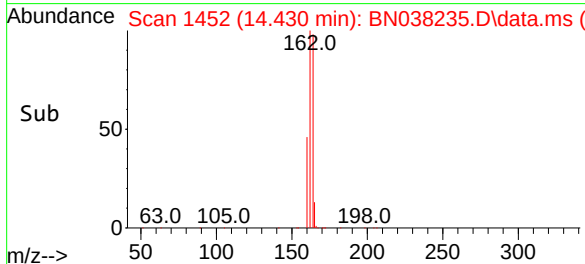
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



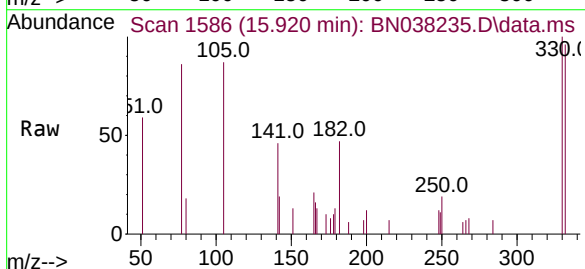
Tgt Ion:164 Resp: 634558
Ion Ratio Lower Upper
164 100
162 102.1 83.8 125.8
160 46.8 41.6 62.4

Manual Integrations
APPROVED

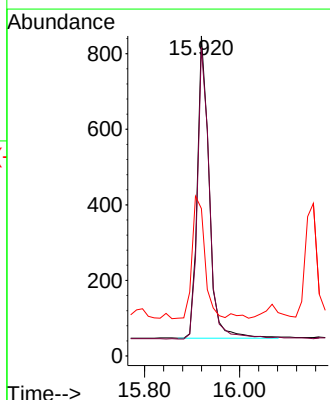
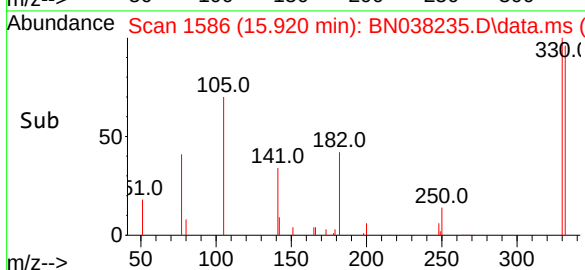
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

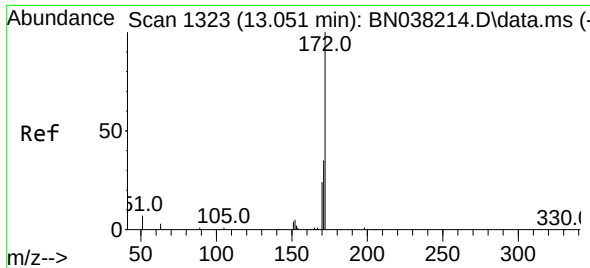


#14
2,4,6-Tribromophenol
Concen: 0.345 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53



Tgt Ion:330 Resp: 1378
Ion Ratio Lower Upper
330 100
332 98.1 77.8 116.6
141 43.5 33.0 49.4





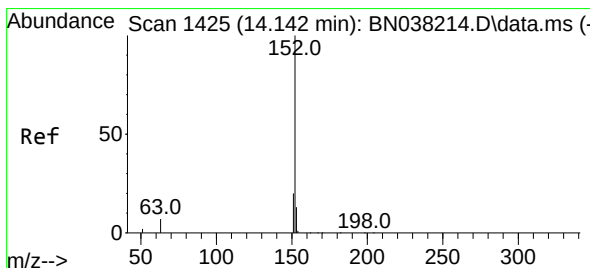
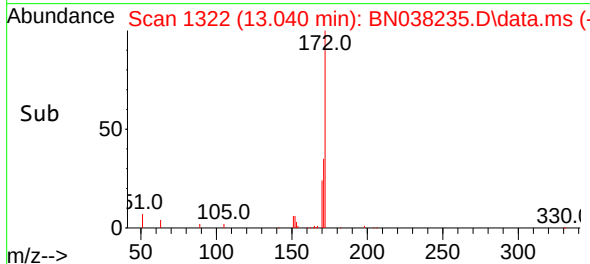
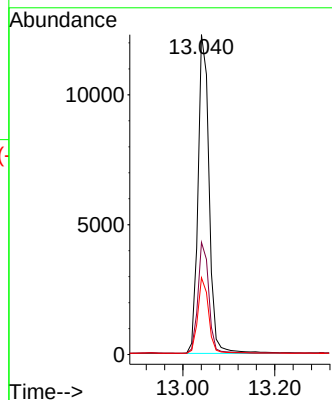
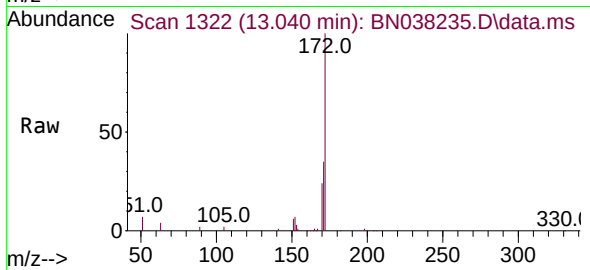
#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 13.040 min Scan# 1323
Delta R.T. -0.011 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD

Tgt Ion:172 Resp: 1910
Ion Ratio Lower Upper
172 100
171 35.1 28.1 42.1
170 24.0 19.1 28.7

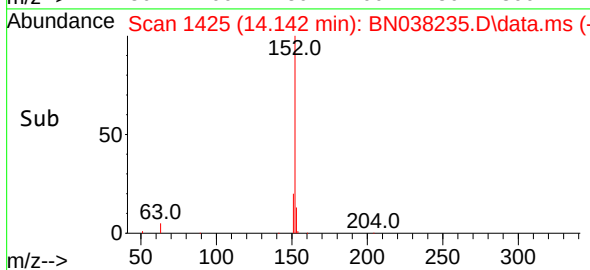
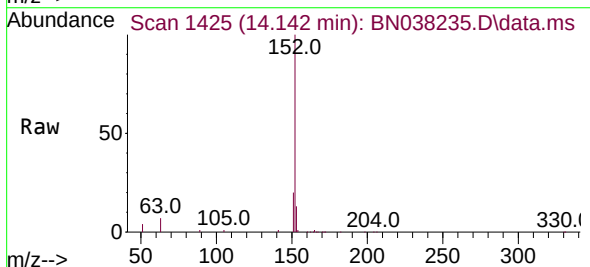
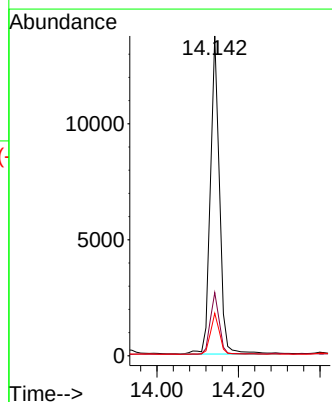
Manual Integrations
APPROVED

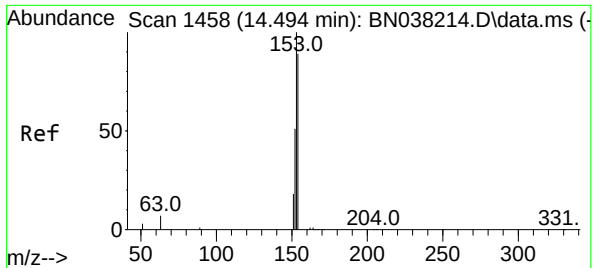
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#16
Acenaphthylene
Concen: 0.376 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

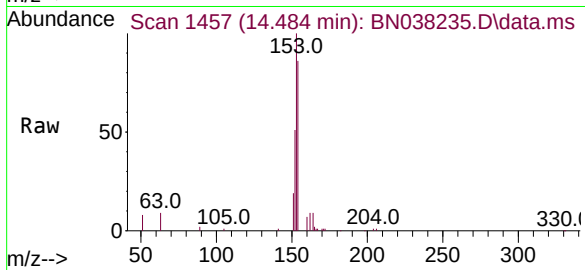
Tgt Ion:152 Resp: 21360
Ion Ratio Lower Upper
152 100
151 19.7 15.6 23.4
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.371 ng
RT: 14.484 min Scan# 1457
Delta R.T. -0.011 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

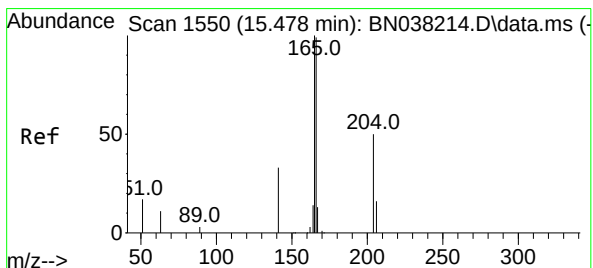
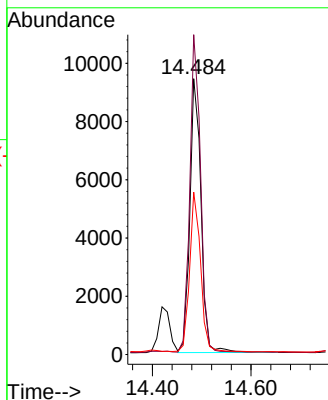
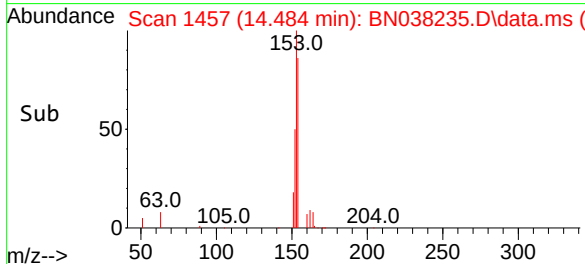
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:154 Resp: 14672
Ion Ratio Lower Upper
154 100
153 111.9 91.1 136.7
152 57.6 48.2 72.2

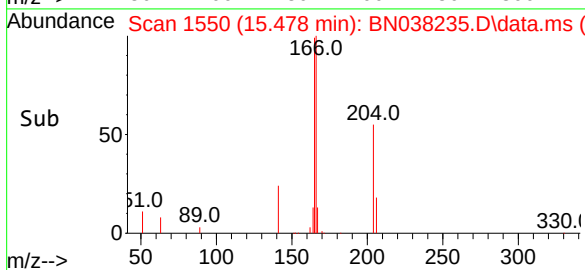
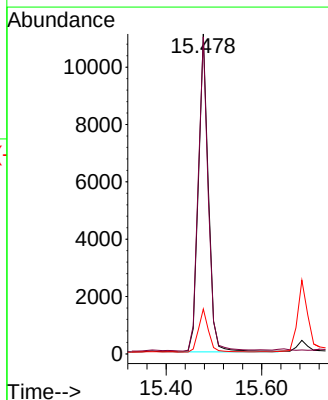
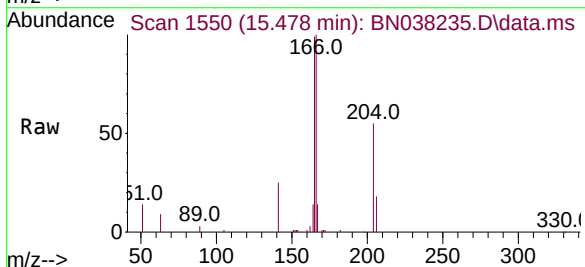
Manual Integrations
APPROVED

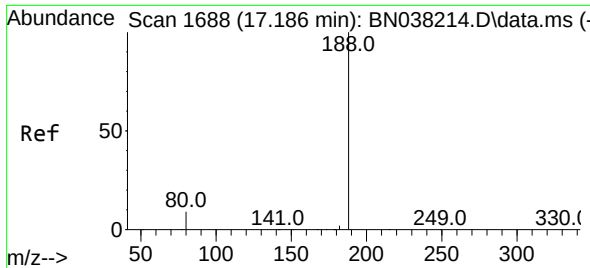
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#18
Fluorene
Concen: 0.344 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Tgt Ion:166 Resp: 17594
Ion Ratio Lower Upper
166 100
165 97.4 78.7 118.1
167 13.4 10.9 16.3





#19

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.173 min Scan# 1688

Delta R.T. -0.012 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMSD

Tgt Ion:188 Resp: 924185

Ion Ratio Lower Upper

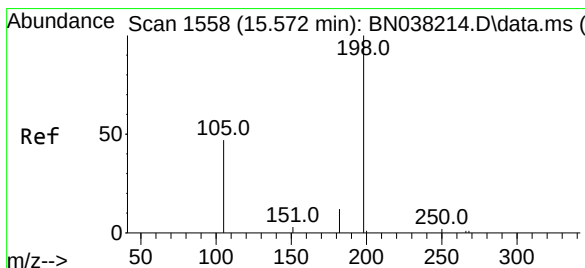
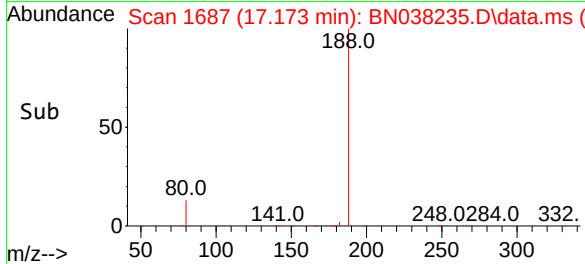
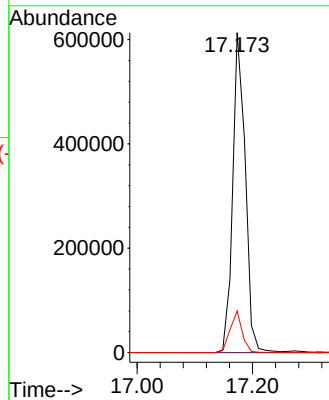
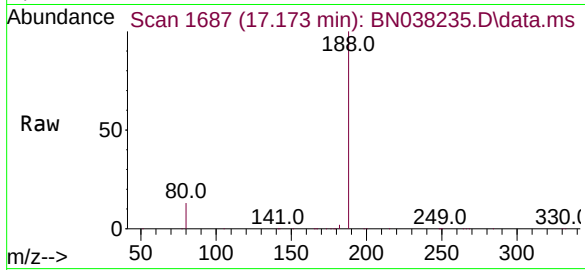
188 100

94 0.0 0.0 0.0

80 13.0 7.7 11.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 9.063 ng

RT: 15.560 min Scan# 1557

Delta R.T. -0.012 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

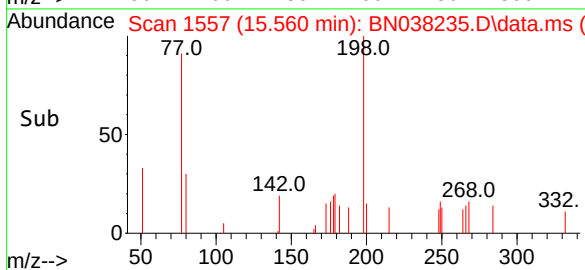
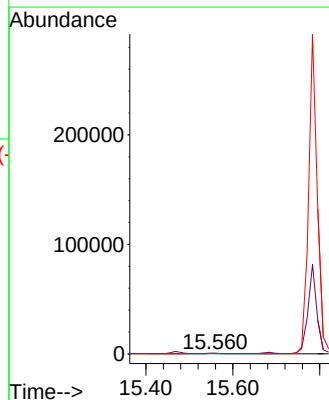
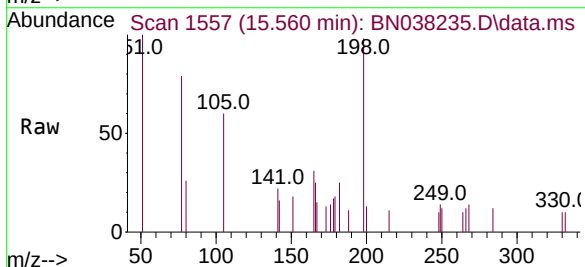
Tgt Ion:198 Resp: 876

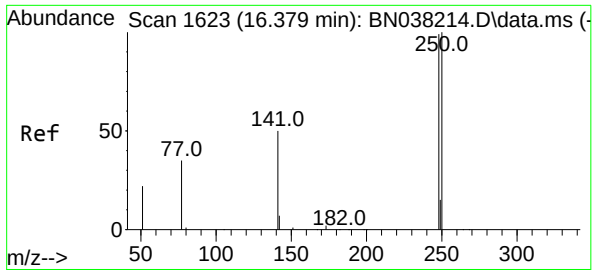
Ion Ratio Lower Upper

198 100

51 101.9 205.1 307.7#

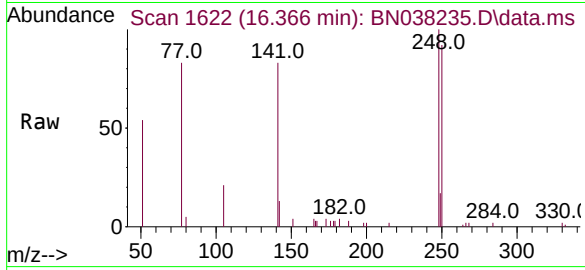
105 61.1 61.6 92.4#





#21
4-Bromophenyl-phenylether
Concen: 0.390 ng
RT: 16.366 min Scan# 1622
Delta R.T. -0.012 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

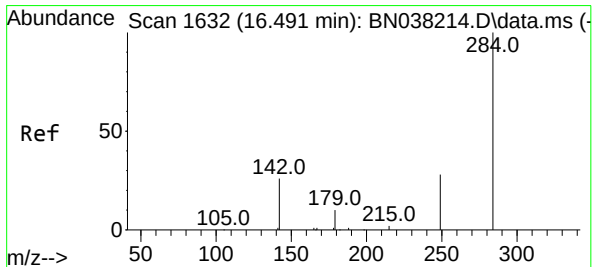
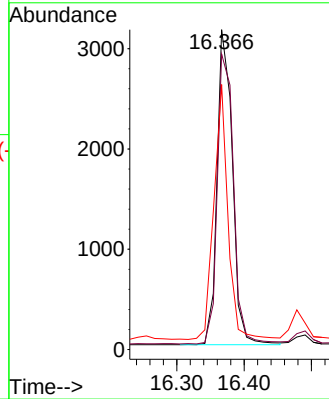
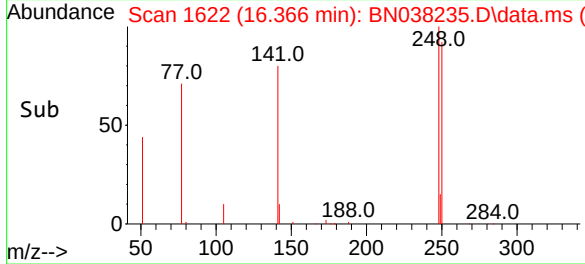
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:248 Resp: 4999
Ion Ratio Lower Upper
248 100
250 92.3 80.8 121.2
141 82.8 41.0 61.6

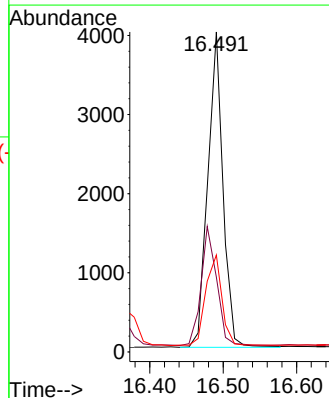
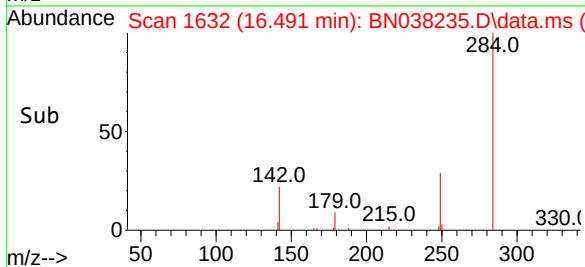
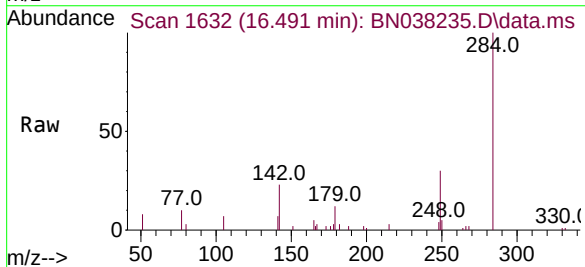
Manual Integrations
APPROVED

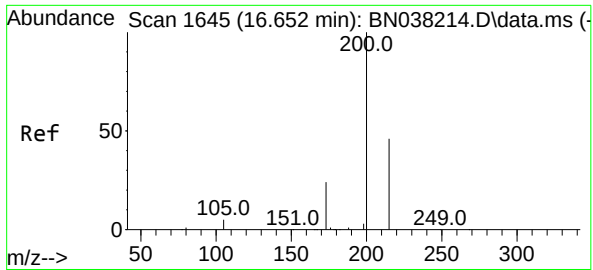
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#22
Hexachlorobenzene
Concen: 0.363 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Tgt Ion:284 Resp: 5719
Ion Ratio Lower Upper
284 100
142 38.7 30.5 45.7
249 31.0 23.8 35.8





#23

Atrazine

Concen: 0.382 ng

RT: 16.640 min Scan# 1644

Delta R.T. -0.012 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

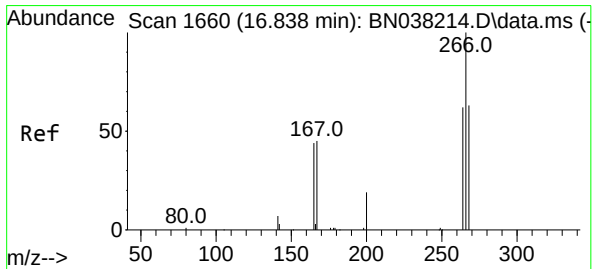
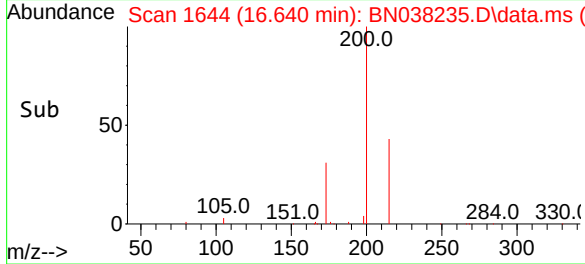
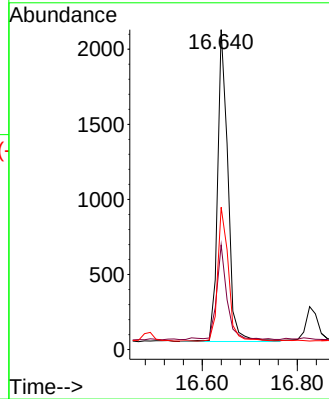
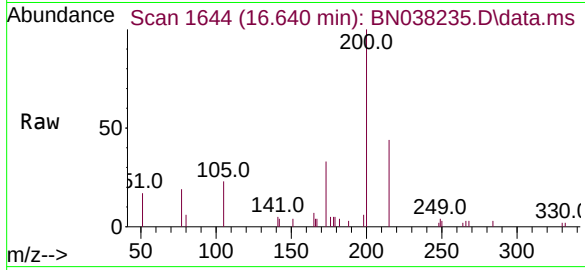
EME-GENERAL-FILLMSD

Tgt Ion:	200	Resp:	3128
Ion Ratio	Lower	Upper	
200	100		
173	32.7	21.0	31.6
215	44.5	37.8	56.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#24

Pentachlorophenol

Concen: 0.561 ng

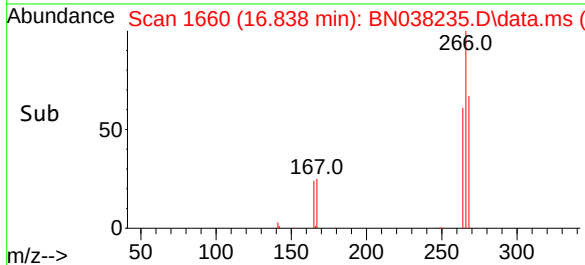
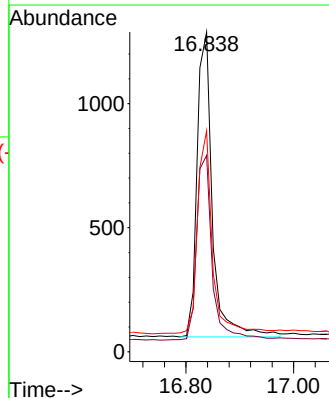
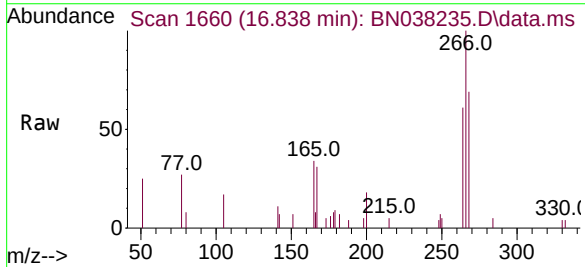
RT: 16.838 min Scan# 1660

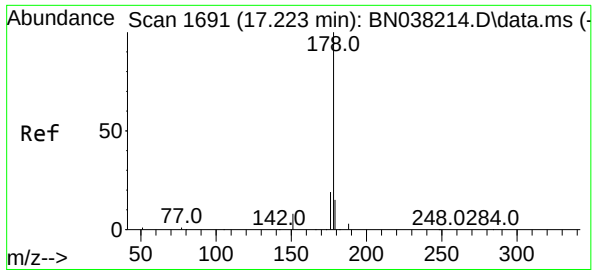
Delta R.T. 0.000 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Tgt Ion:	266	Resp:	2420
Ion Ratio	Lower	Upper	
266	100		
264	61.9	48.9	73.3
268	65.2	50.2	75.2





#25

Phenanthrene

Concen: 0.410 ng m

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

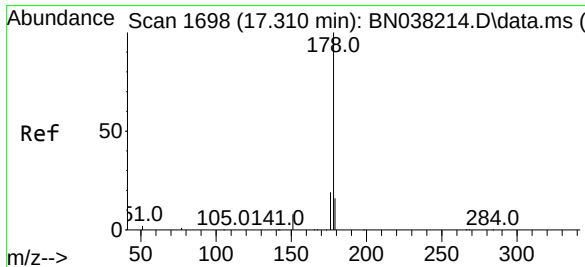
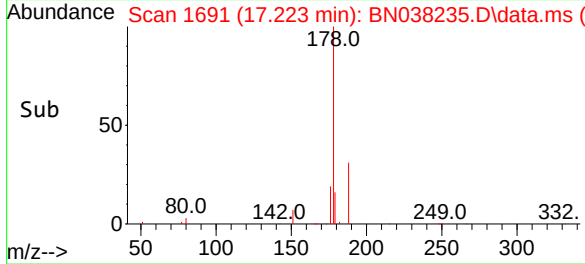
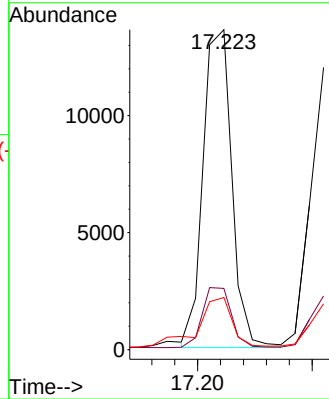
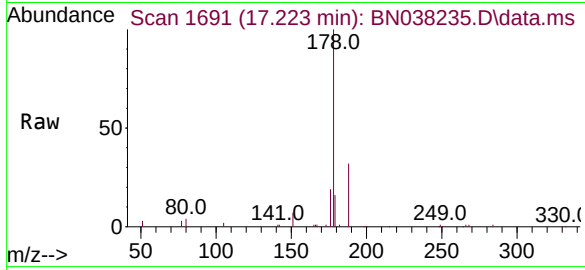
EME-GENERAL-FILLMSD

Tgt Ion:	178	Resp:	23765
Ion Ratio	Lower	Upper	
178	100		
176	14.1	15.3	22.9
179	11.5	12.0	18.0

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
 Supervised By :mohammad ahmed 12/03/2025



#26

Anthracene

Concen: 0.376 ng

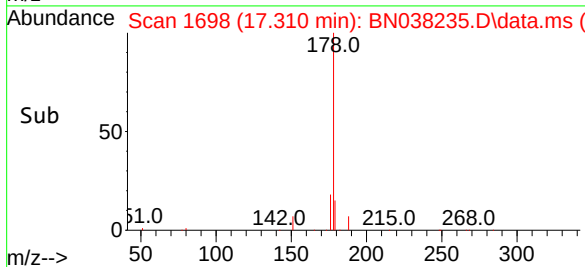
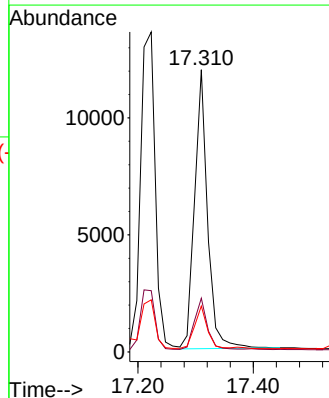
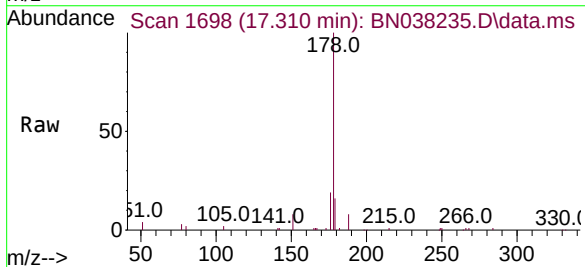
RT: 17.310 min Scan# 1698

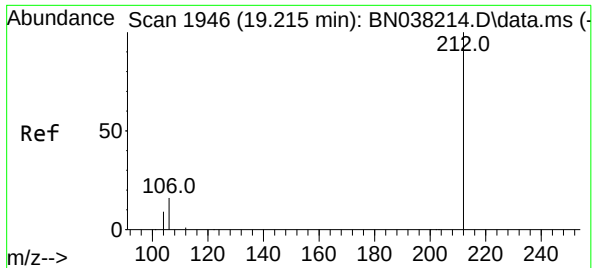
Delta R.T. 0.000 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Tgt Ion:	178	Resp:	18592
Ion Ratio	Lower	Upper	
178	100		
176	18.7	14.7	22.1
179	14.7	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.333 ng

RT: 19.211 min Scan# 1946

Delta R.T. -0.005 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMSD

Tgt Ion:212 Resp: 13363

Ion Ratio Lower Upper

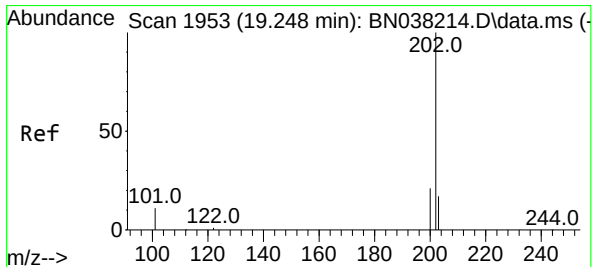
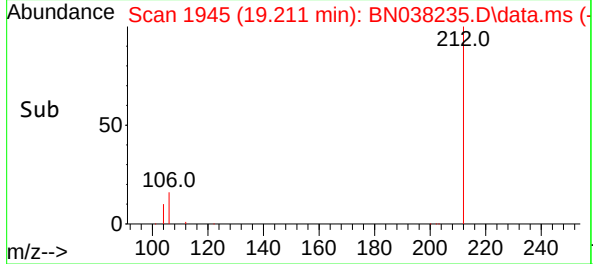
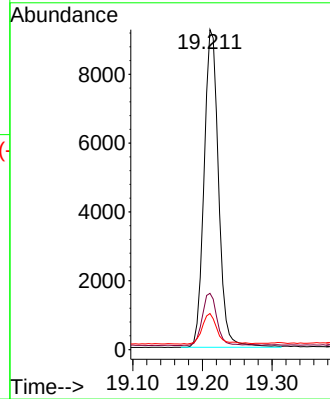
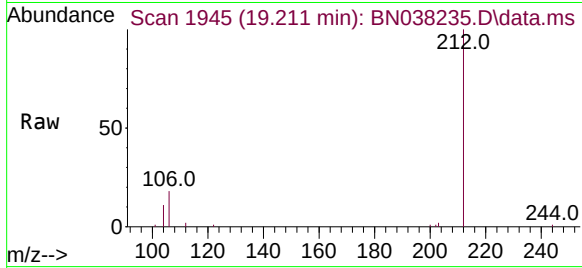
212 100

106 16.7 12.7 19.1

104 10.0 7.3 10.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

#28

Fluoranthene

Concen: 0.368 ng

RT: 19.243 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53

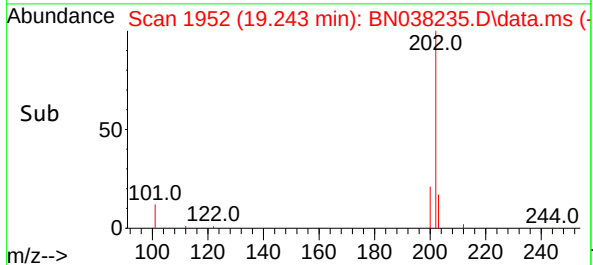
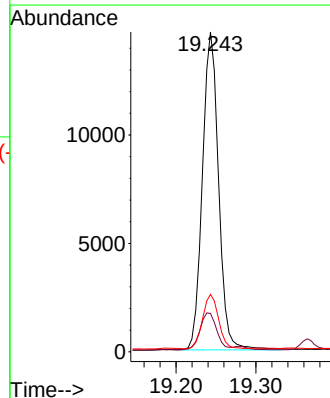
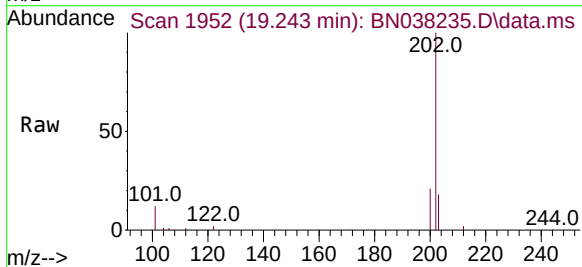
Tgt Ion:202 Resp: 20607

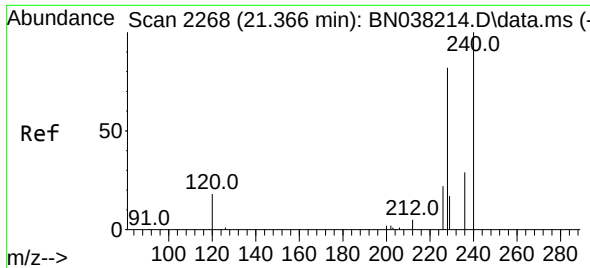
Ion Ratio Lower Upper

202 100

101 11.9 9.8 14.6

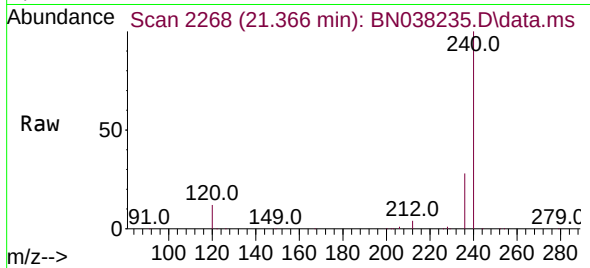
203 16.8 13.6 20.4





#29
Chrysene-d12
Concen: 20.000 ng
RT: 21.366 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

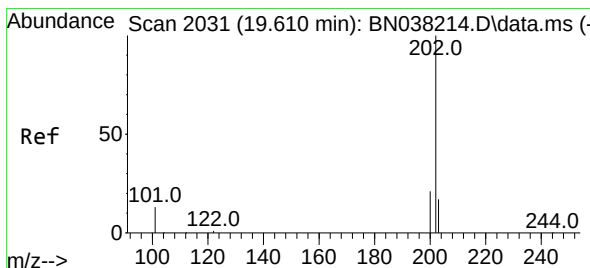
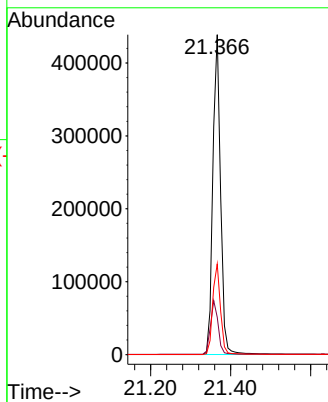
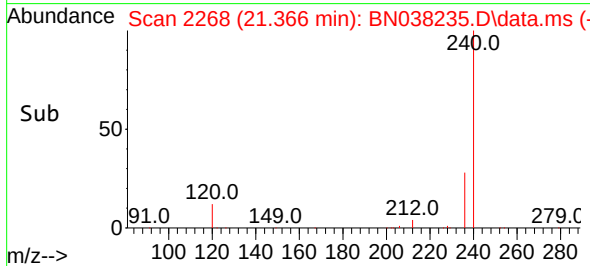
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



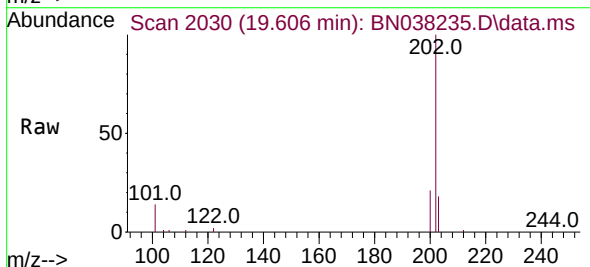
Tgt Ion:240 Resp: 590927
Ion Ratio Lower Upper
240 100
120 11.7 18.1 27.1
236 28.3 24.2 36.4

Manual Integrations
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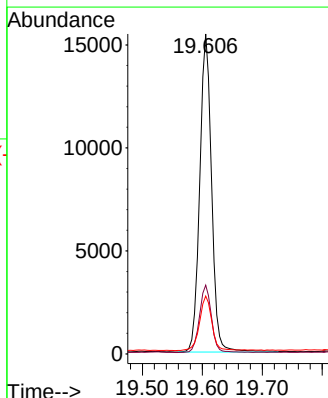
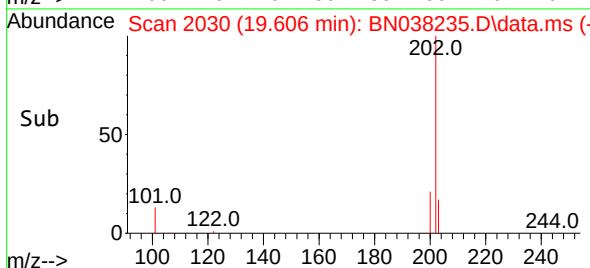
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

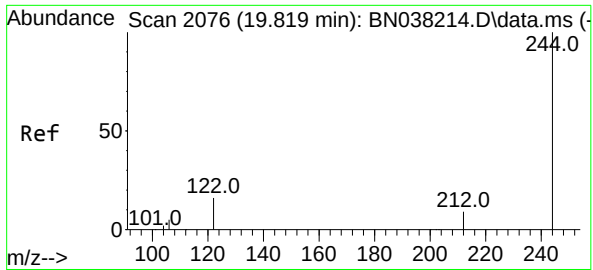


#30
Pyrene
Concen: 0.359 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53



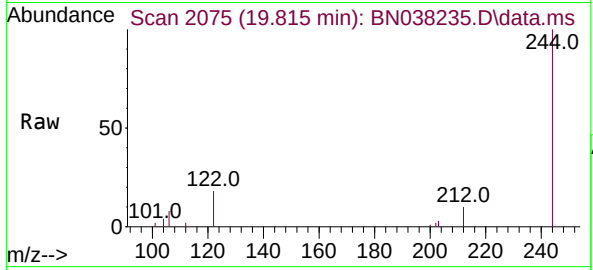
Tgt Ion:202 Resp: 21180
Ion Ratio Lower Upper
202 100
200 21.2 16.8 25.2
203 17.9 14.4 21.6





#31
Terphenyl-d14
Concen: 0.369 ng
RT: 19.815 min Scan# 2076
Delta R.T. -0.005 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

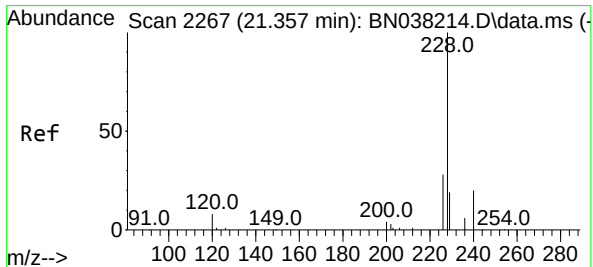
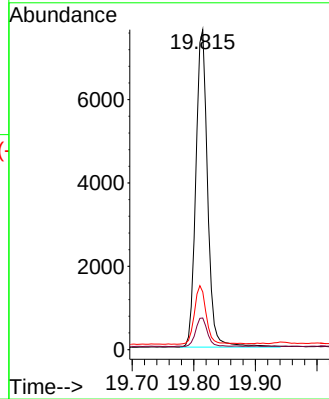
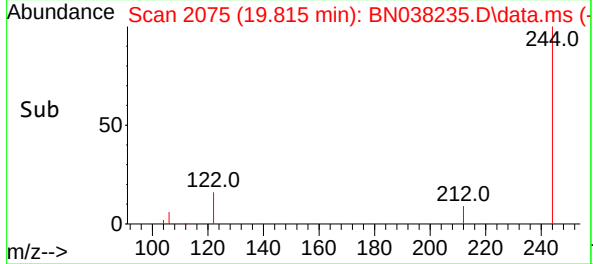
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:244 Resp: 10068
Ion Ratio Lower Upper
244 100
212 9.9 7.7 11.5
122 18.0 13.6 20.4

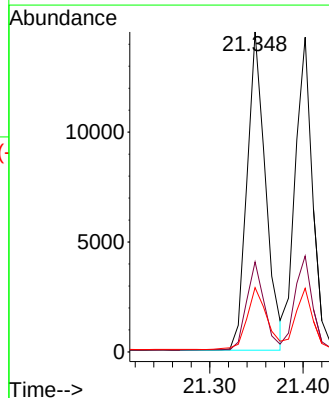
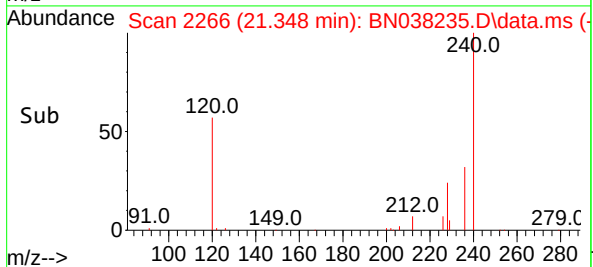
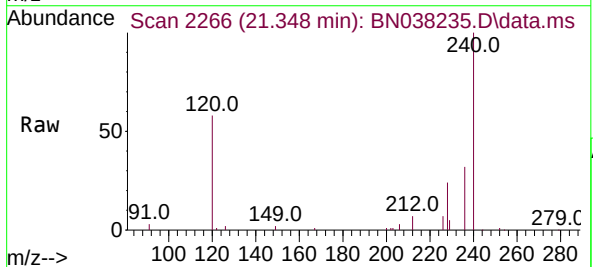
Manual Integrations
APPROVED

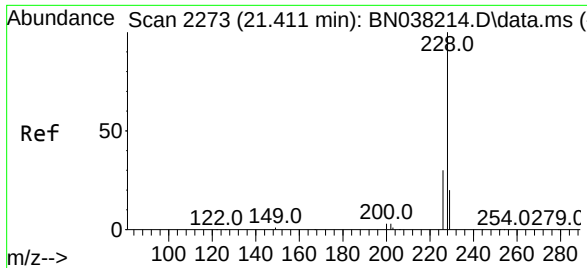
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#32
Benzo(a)anthracene
Concen: 0.499 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

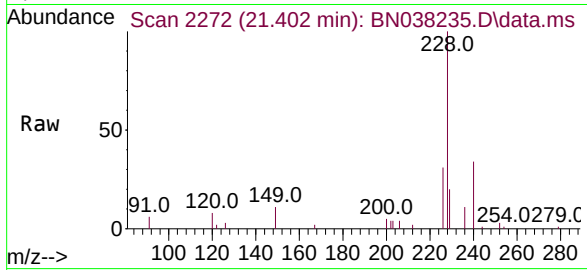
Tgt Ion:228 Resp: 19971
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 20.1 15.8 23.8





#33
Chrysene
Concen: 0.394 ng
RT: 21.402 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

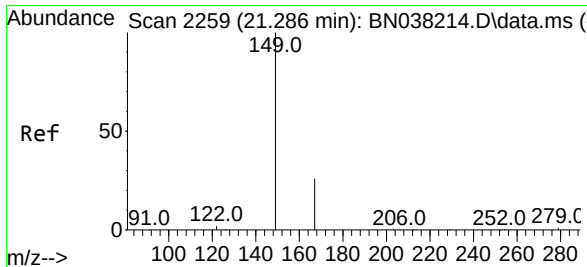
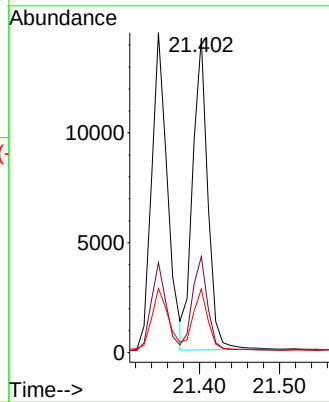
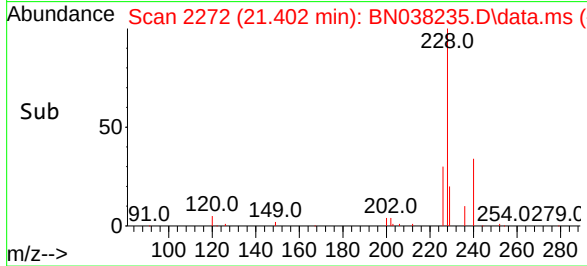
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:228 Resp: 1862
Ion Ratio Lower Upper
228 100
226 30.5 23.8 35.8
229 20.2 16.1 24.1

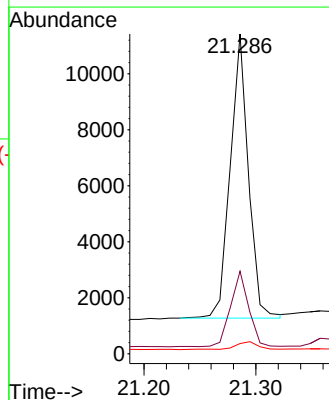
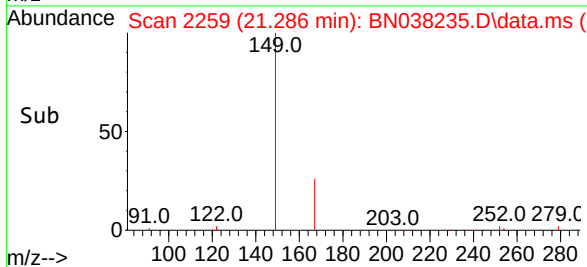
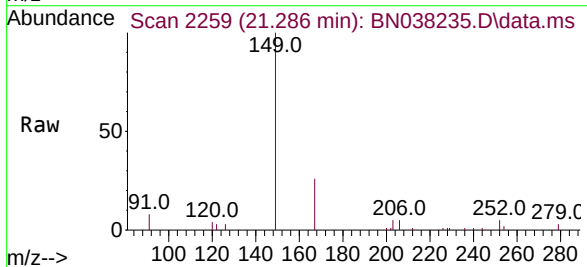
Manual Integrations
APPROVED

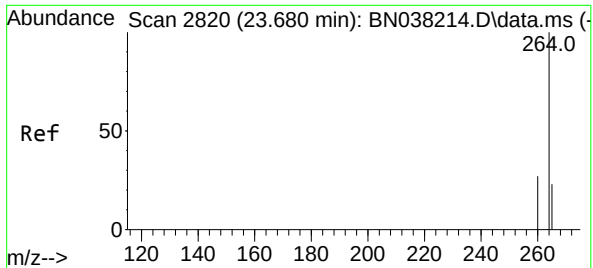
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.522 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

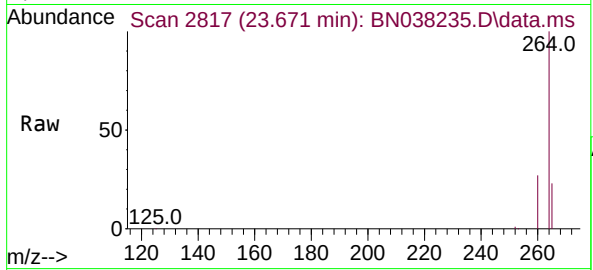
Tgt Ion:149 Resp: 11432
Ion Ratio Lower Upper
149 100
167 26.2 20.7 31.1
279 3.5 2.5 3.7





#35
Perylene-d12
Concen: 20.000 ng
RT: 23.671 min Scan# 2817
Delta R.T. -0.009 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

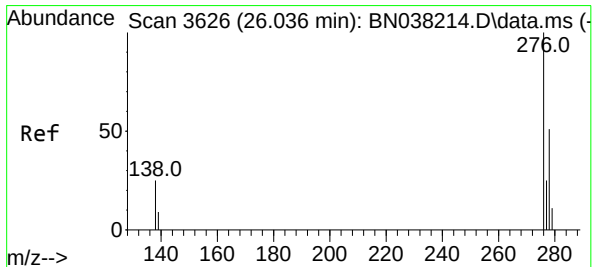
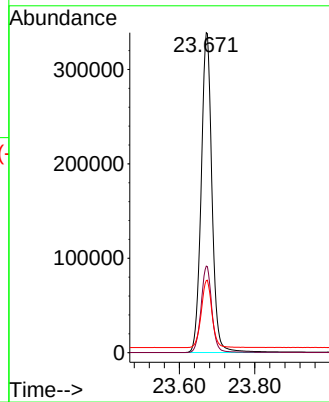
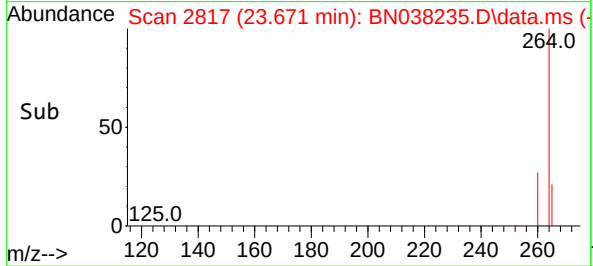
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:264 Resp: 671792
Ion Ratio Lower Upper
264 100
260 27.0 21.7 32.5
265 22.5 98.0 147.0

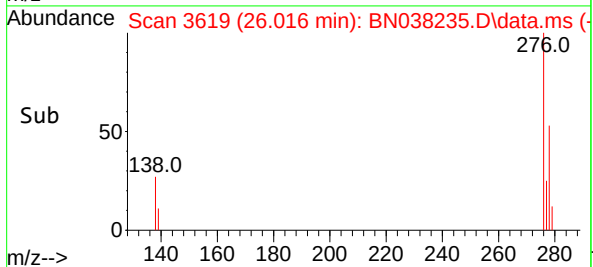
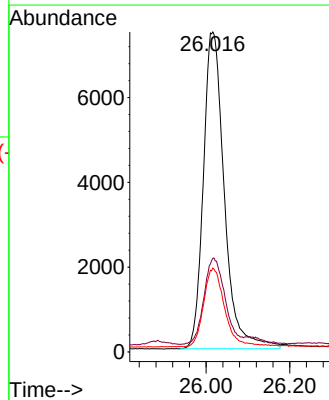
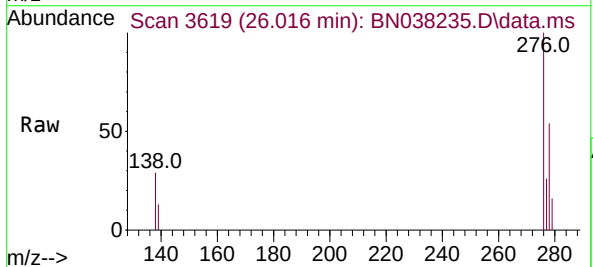
Manual Integrations
APPROVED

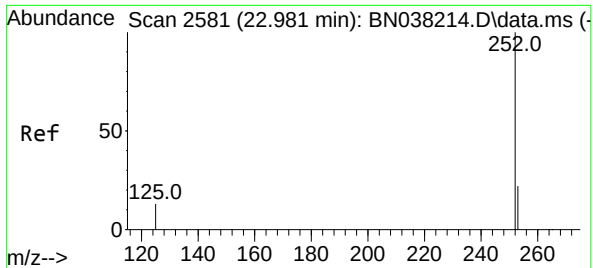
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.419 ng
RT: 26.016 min Scan# 3619
Delta R.T. -0.020 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

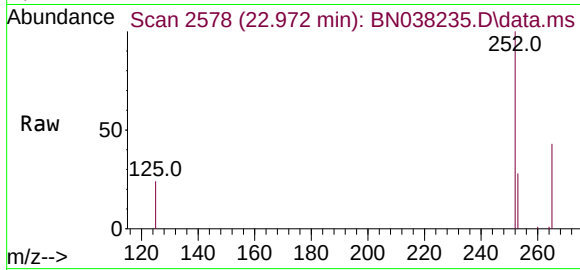
Tgt Ion:276 Resp: 26034
Ion Ratio Lower Upper
276 100
138 27.3 21.4 32.2
277 24.6 19.1 28.7





#37
Benzo(b)fluoranthene
Concen: 0.365 ng
RT: 22.972 min Scan# 2578
Delta R.T. -0.009 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

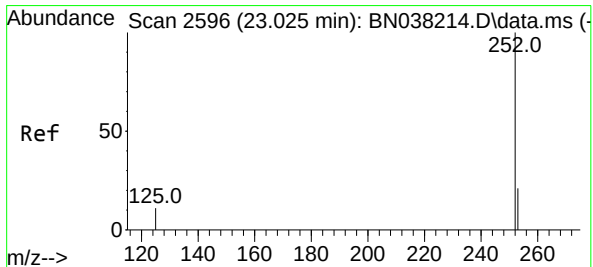
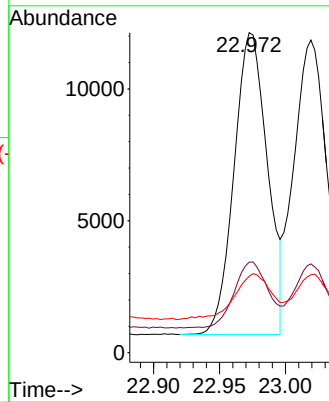
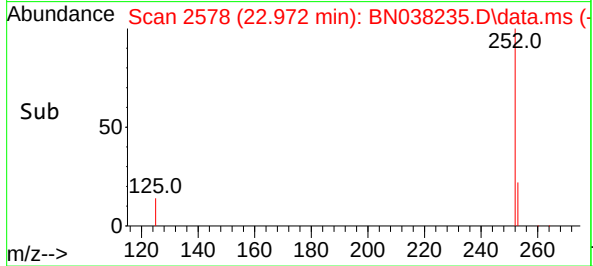
Instrument :
BNA_N
ClientSampleId :
EME-GENERAL-FILLMSD



Tgt Ion:252 Resp: 20132
Ion Ratio Lower Upper
252 100
253 28.3 22.2 33.4
125 23.8 18.0 27.0

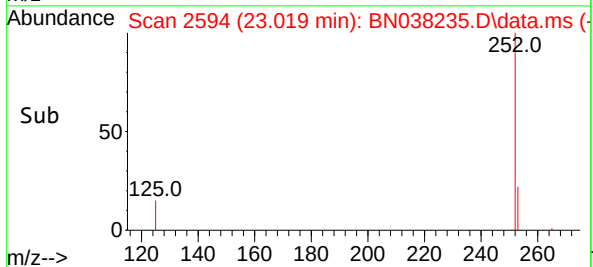
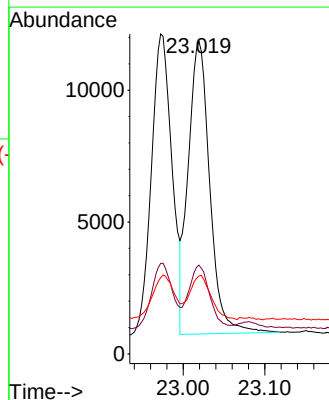
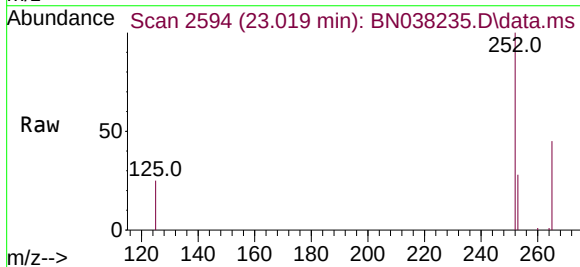
Manual Integrations
APPROVED

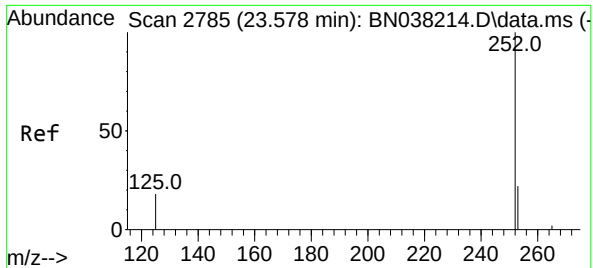
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025



#38
Benzo(k)fluoranthene
Concen: 0.355 ng
RT: 23.019 min Scan# 2594
Delta R.T. -0.006 min
Lab File: BN038235.D
Acq: 01 Dec 2025 20:53

Tgt Ion:252 Resp: 20327
Ion Ratio Lower Upper
252 100
253 28.4 22.4 33.6
125 24.9 17.5 26.3





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.566 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN038235.D

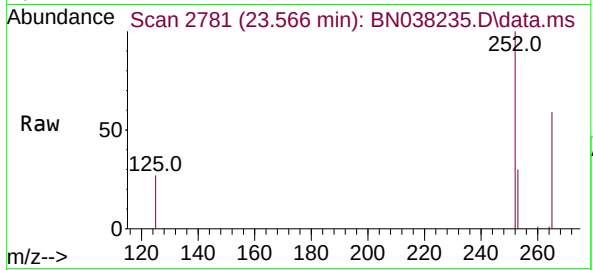
Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMSD



Tgt Ion:252 Resp: 1769

Ion Ratio Lower Upper

252 100

253 30.5 25.3 37.9

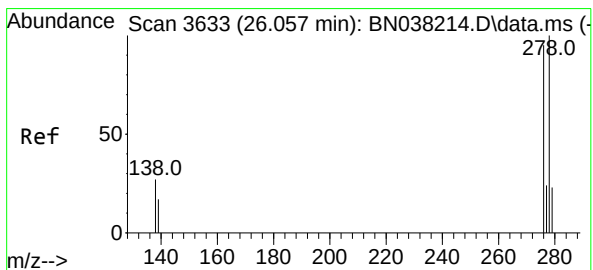
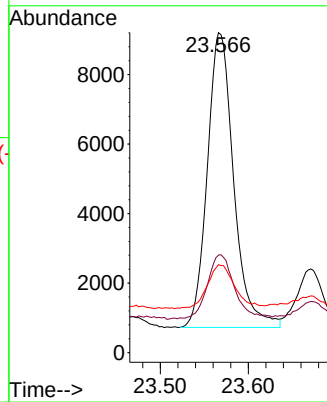
125 27.5 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025

Supervised By :mohammad ahmed 12/03/2025



#40

Dibenzo(a,h)anthracene

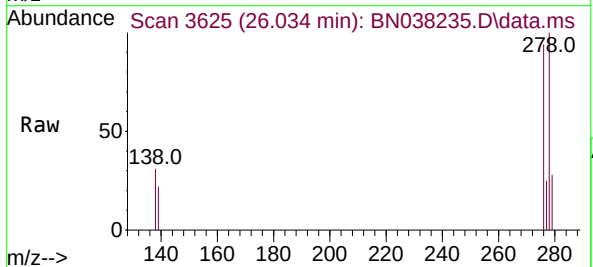
Concen: 0.423 ng

RT: 26.034 min Scan# 3625

Delta R.T. -0.023 min

Lab File: BN038235.D

Acq: 01 Dec 2025 20:53



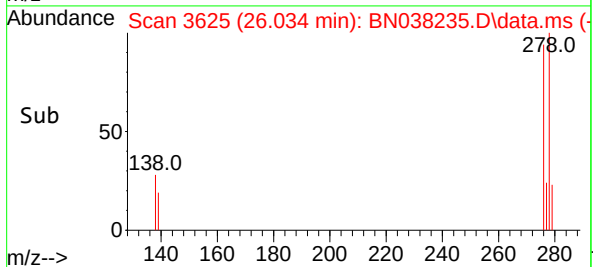
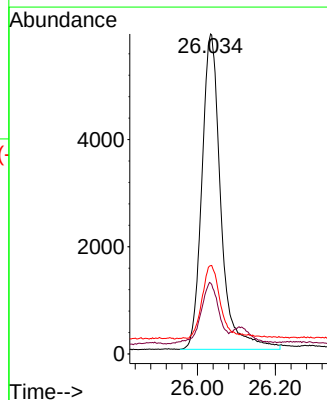
Tgt Ion:278 Resp: 19902

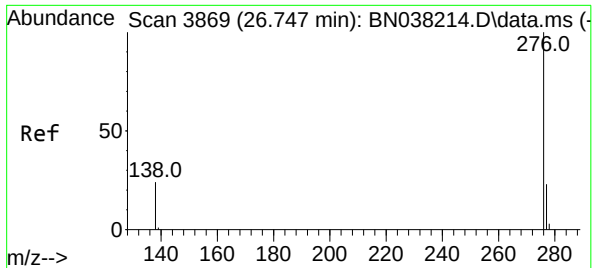
Ion Ratio Lower Upper

278 100

139 22.1 17.6 26.4

279 27.6 24.2 36.4





#41

Benzo(g,h,i)perylene

Concen: 0.386 ng

RT: 26.732 min Scan# 38

Delta R.T. -0.015 min

Lab File: BN038235.D

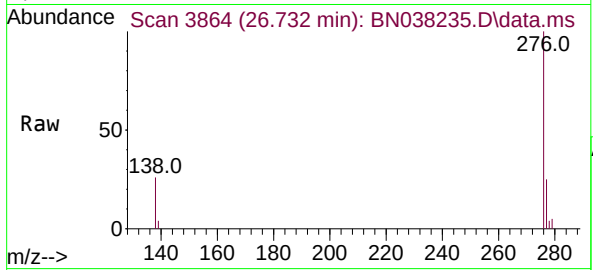
Acq: 01 Dec 2025 20:53

Instrument :

BNA_N

ClientSampleId :

EME-GENERAL-FILLMSD



Tgt Ion:276 Resp: 21732

Ion Ratio Lower Upper

276 100

277 24.9 20.2 30.2

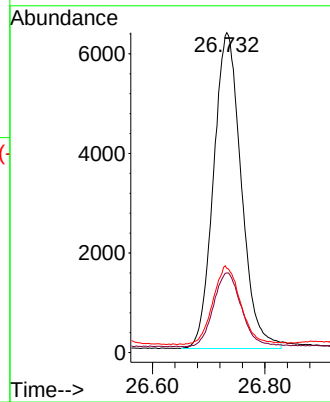
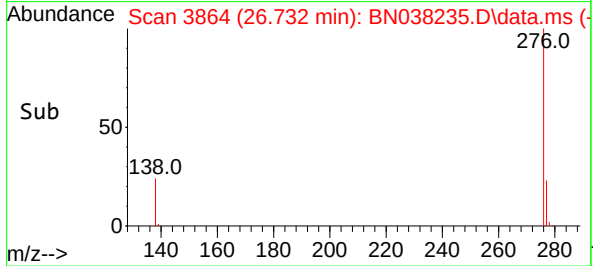
138 26.3 20.8 31.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025

Supervised By :mohammad ahmed 12/03/2025





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

Manual Integration Report

Sequence:	BN112725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN038212.D	Benzo(g,h,i)perylene	Jagrut	12/2/2025 4:10:05 PM	mohammad	12/3/2025 1:12:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN120125

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3618-02MS	BN038234.D	Phenanthrene	Jagrut	12/2/2025 3:24:11 PM	mohammad	12/3/2025 1:12:13 AM	Peak Integrated by Software
Q3618-02MSD	BN038235.D	Phenanthrene	Jagrut	12/2/2025 3:24:15 PM	mohammad	12/3/2025 1:12:13 AM	Peak Integrated by Software
PB170590BS	BN038237.D	2-Methylnaphthalene-d10	Jagrut	12/2/2025 3:24:16 PM	mohammad	12/3/2025 1:12:13 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038211.D	26 Nov 2025 19:55	RC/JU	Ok
2	SSTDICC0.1	BN038212.D	26 Nov 2025 20:35	RC/JU	Ok,M
3	SSTDICC0.2	BN038213.D	26 Nov 2025 21:12	RC/JU	Ok
4	SSTDICCC0.4	BN038214.D	26 Nov 2025 21:48	RC/JU	Ok
5	SSTDICC0.8	BN038215.D	26 Nov 2025 22:25	RC/JU	Ok
6	SSTDICC1.6	BN038216.D	26 Nov 2025 23:01	RC/JU	Ok
7	SSTDICC3.2	BN038217.D	26 Nov 2025 23:37	RC/JU	Ok
8	SSTDICC5.0	BN038218.D	27 Nov 2025 00:13	RC/JU	Ok
9	SSTDICV0.4	BN038219.D	27 Nov 2025 00:49	RC/JU	Ok
10	PB170483BL	BN038220.D	27 Nov 2025 02:01	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN120125

Review By	Jagrut	Review On	12/2/2025 3:40:28 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:13 AM
SubDirectory	BN120125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038221.D	01 Dec 2025 09:44	RC/JU	Ok
2	SSTDCCC0.4	BN038222.D	01 Dec 2025 10:23	RC/JU	Ok
3	PB170590BL	BN038223.D	01 Dec 2025 10:59	RC/JU	Ok
4	Q3483-12	BN038224.D	01 Dec 2025 11:35	RC/JU	Dilution
5	Q3483-12DL	BN038225.D	01 Dec 2025 14:20	RC/JU	Ok
6	Q3483-13	BN038226.D	01 Dec 2025 14:56	RC/JU	Dilution
7	Q3483-13DL	BN038227.D	01 Dec 2025 15:49	RC/JU	Ok
8	SSTDCCC0.4	BN038228.D	01 Dec 2025 16:35	RC/JU	Ok
9	DFTPP	BN038229.D	01 Dec 2025 17:11	RC/JU	Ok
10	SSTDCCC0.4	BN038230.D	01 Dec 2025 17:51	RC/JU	Ok
11	PB170712BL	BN038231.D	01 Dec 2025 18:28	RC/JU	Ok
12	PB170712BS	BN038232.D	01 Dec 2025 19:04	RC/JU	Ok,M
13	Q3618-02	BN038233.D	01 Dec 2025 19:40	RC/JU	Ok
14	Q3618-02MS	BN038234.D	01 Dec 2025 20:17	RC/JU	Ok,M
15	Q3618-02MSD	BN038235.D	01 Dec 2025 20:53	RC/JU	Ok,M
16	Q3618-01	BN038236.D	01 Dec 2025 21:29	RC/JU	Ok
17	PB170590BS	BN038237.D	01 Dec 2025 22:05	RC/JU	Ok,M
18	PB170712BSD	BN038238.D	01 Dec 2025 22:42	RC/JU	Ok
19	Q3690-01	BN038239.D	01 Dec 2025 23:17	RC/JU	Ok
20	Q3690-02	BN038240.D	01 Dec 2025 23:54	RC/JU	Ok
21	Q3691-01	BN038241.D	02 Dec 2025 00:30	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN120125

Review By	Jagrut	Review On	12/2/2025 3:40:28 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:13 AM
SubDirectory	BN120125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q3691-02	BN038242.D	02 Dec 2025 01:07	RC/JU	Ok
23	Q3691-03	BN038243.D	02 Dec 2025 01:43	RC/JU	Ok
24	Q3691-04	BN038244.D	02 Dec 2025 02:19	RC/JU	Ok
25	Q3692-01	BN038245.D	02 Dec 2025 02:55	RC/JU	Ok
26	Q3692-02	BN038246.D	02 Dec 2025 03:32	RC/JU	Ok
27	Q3692-03	BN038247.D	02 Dec 2025 04:08	RC/JU	Ok
28	SSTDCCC0.4	BN038248.D	02 Dec 2025 04:44	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_HP Processing Method BN112725

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038211.D	26 Nov 2025 19:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038212.D	26 Nov 2025 20:35		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN038213.D	26 Nov 2025 21:12		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038214.D	26 Nov 2025 21:48	Compound #20 kept on QR.	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038215.D	26 Nov 2025 22:25		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN038216.D	26 Nov 2025 23:01		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038217.D	26 Nov 2025 23:37		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038218.D	27 Nov 2025 00:13	Compound #14,24 removed from 5.0 level	RC/JU	Ok
9	SSTDICV0.4	ICVBN112725	BN038219.D	27 Nov 2025 00:49	ICV failed for compound #05,20,24	RC/JU	Ok
10	PB170483BL	PB170483BL	BN038220.D	27 Nov 2025 02:01		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120125

Review By	Jagrut	Review On	12/2/2025 3:40:28 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:13 AM
SubDirectory	BN120125	HP Acquire Method	BNA_N, 8270_HP Processing Method BN112725

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038221.D	01 Dec 2025 09:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038222.D	01 Dec 2025 10:23		RC/JU	Ok
3	PB170590BL	PB170590BL	BN038223.D	01 Dec 2025 10:59		RC/JU	Ok
4	Q3483-12	HW1025-PT-TRIAZINE	BN038224.D	01 Dec 2025 11:35	HW1025-PT-TRIAZINE-SOIL Need 100X Dilution	RC/JU	Dilution
5	Q3483-12DL	HW1025-PT-TRIAZINE	BN038225.D	01 Dec 2025 14:20		RC/JU	Ok
6	Q3483-13	HW1025-PT-PAH-SOIL	BN038226.D	01 Dec 2025 14:56	Need 10X Dilution	RC/JU	Dilution
7	Q3483-13DL	HW1025-PT-PAH-SOIL	BN038227.D	01 Dec 2025 15:49		RC/JU	Ok
8	SSTDCCC0.4	SSTDCCC0.4EC	BN038228.D	01 Dec 2025 16:35		RC/JU	Ok
9	DFTPP	DFTPP	BN038229.D	01 Dec 2025 17:11		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4	BN038230.D	01 Dec 2025 17:51		RC/JU	Ok
11	PB170712BL	PB170712BL	BN038231.D	01 Dec 2025 18:28		RC/JU	Ok
12	PB170712BS	PB170712BS	BN038232.D	01 Dec 2025 19:04		RC/JU	Ok,M
13	Q3618-02	EME-GENERAL-FILL	BN038233.D	01 Dec 2025 19:40	Regular Internal standard added	RC/JU	Ok
14	Q3618-02MS	EME-GENERAL-FILLM	BN038234.D	01 Dec 2025 20:17	Regular Internal standard added.	RC/JU	Ok,M
15	Q3618-02MSD	EME-GENERAL-FILLM	BN038235.D	01 Dec 2025 20:53	Regular Internal standard added	RC/JU	Ok,M
16	Q3618-01	EME-TOP-SOIL	BN038236.D	01 Dec 2025 21:29	Regular Internal standard added	RC/JU	Ok
17	PB170590BS	PB170590BS	BN038237.D	01 Dec 2025 22:05		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120125

Review By	Jagrut	Review On	12/2/2025 3:40:28 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:13 AM
SubDirectory	BN120125	HP Acquire Method	BNA_N, 8270_HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	PB170712BSD	PB170712BSD	BN038238.D	01 Dec 2025 22:42		RC/JU	Ok
19	Q3690-01	RW8-SP100-20251118	BN038239.D	01 Dec 2025 23:17		RC/JU	Ok
20	Q3690-02	RW8-SP303-20251118	BN038240.D	01 Dec 2025 23:54		RC/JU	Ok
21	Q3691-01	RW7-SP100-20251118	BN038241.D	02 Dec 2025 00:30		RC/JU	Ok
22	Q3691-02	RW7-SP201-20251118	BN038242.D	02 Dec 2025 01:07		RC/JU	Ok
23	Q3691-03	RW7-SP302-20251118	BN038243.D	02 Dec 2025 01:43		RC/JU	Ok
24	Q3691-04	RW7-SP303-20251118	BN038244.D	02 Dec 2025 02:19		RC/JU	Ok
25	Q3692-01	RW5-SP100-20251118	BN038245.D	02 Dec 2025 02:55		RC/JU	Ok
26	Q3692-02	RW5-SP201-20251118	BN038246.D	02 Dec 2025 03:32		RC/JU	Ok
27	Q3692-03	RW5-SP303-20251118	BN038247.D	02 Dec 2025 04:08		RC/JU	Ok
28	SSTDCCC0.4	SSTDCCC0.4EC	BN038248.D	02 Dec 2025 04:44		RC/JU	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3368-13	OUTSIDE-DUMPSTER	1	1.12	10.63	11.75	8.28	67.4	
Q3368-14	PRESS-SLUDGE	2	1.18	10.30	11.48	7.89	65.1	
Q3482-01	WC-1	37	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-02	WC-2	38	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-03	WC-3	39	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-04	WC-4	40	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-05	WC-5	41	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-06	WC-6	42	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3482-07	WC-7	43	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3483-01	HW1025-PT-AN-SOIL	3	1.00	1.00	2.00	2.00	100.0	
Q3483-02	HW1025-PT-CORR-SOIL	4	1.00	1.00	2.00	2.00	100.0	
Q3483-03	HW1025-PT-CN-SOIL	5	1.00	1.00	2.00	2.00	100.0	
Q3483-04	HW1025-PT-CN-SOIL	6	1.00	1.00	2.00	2.00	100.0	
Q3483-05	HW1025-PT-FP-SOIL	7	1.00	1.00	2.00	2.00	100.0	
Q3483-06	HW1025-PT-CR6-SOIL	8	1.00	1.00	2.00	2.00	100.0	
Q3483-07	HW1025-PT-NUT-SOIL	9	1.00	1.00	2.00	2.00	100.0	
Q3483-08	HW1025-PT-NUT-SOIL	10	1.00	1.00	2.00	2.00	100.0	
Q3483-09	HW1025-PT-OGF-SOIL	11	1.00	1.00	2.00	2.00	100.0	
Q3483-10	HW1025-PT-MET-SOIL	12	1.00	1.00	2.00	2.00	100.0	
Q3483-11	HW1025-PT-BNA-SOIL	13	1.00	1.00	2.00	2.00	100.0	
Q3483-12	HW1025-PT-TRIAZINE-SOIL	14	1.00	1.00	2.00	2.00	100.0	
Q3483-13	HW1025-PT-PAH-SOIL	15	1.00	1.00	2.00	2.00	100.0	
Q3483-14	HW1025-PT-DIES-SOIL	16	1.00	1.00	2.00	2.00	100.0	
Q3483-15	HW1025-PT-GAS-SOIL	17	1.00	1.00	2.00	2.00	100.0	
Q3483-16	HW1025-PT-NJEPH-SOIL	18	1.00	1.00	2.00	2.00	100.0	
Q3483-17	HW1025-PT-HERB-SOIL	19	1.00	1.00	2.00	2.00	100.0	
Q3483-18	HW1025-PT-PCB-SOIL	20	1.00	1.00	2.00	2.00	100.0	
Q3483-19	HW1025-PT-PCBO-SOIL	21	1.00	1.00	2.00	2.00	100.0	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/30/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/29/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137700

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3483-20	HW1025-PT-PEST-SOIL	22	1.00	1.00	2.00	2.00	100.0	
Q3483-21	HW1025-PT-CHLOR-SOIL	23	1.00	1.00	2.00	2.00	100.0	
Q3483-22	HW1025-PT-TXP-SOIL	24	1.00	1.00	2.00	2.00	100.0	
Q3483-23	HW1025-PT-VOA-SOIL	25	1.00	1.00	2.00	2.00	100.0	
Q3483-25	HW1025-PT-NO2-SOIL	26	1.00	1.00	2.00	2.00	100.0	
Q3485-01	TR-04-102924	27	1.15	10.30	11.45	10.84	94.1	
Q3485-02	TR-04-102924-E2	28	1.19	10.30	11.49	10.77	93.0	
Q3486-01	TP3	29	1.17	10.45	11.62	11.07	94.7	
Q3486-02	TP3-E2	30	1.18	10.40	11.58	11.11	95.5	
Q3486-03	TP4	31	1.19	10.23	11.42	9.93	85.4	
Q3486-04	TP4-E2	32	1.17	10.52	11.69	10.09	84.8	
Q3486-05	TP5	33	1.17	10.65	11.82	10.02	83.1	
Q3486-06	TP5-E2	34	1.17	10.15	11.32	9.39	81.0	
Q3486-07	TP6	35	1.13	10.25	11.38	10.16	88.1	
Q3486-08	TP6-E2	36	1.16	10.48	11.64	10.32	87.4	

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

WORKLIST(Hardcopy Internal Chain)

8137100

WorkList Name : %1-102925 WorkList ID : 192745 Department : Wet-Chemistry Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-13	OUTSIDE-DUMPSTER	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3368-14	PRESS-SLUDGE	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3482-01	WC-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-02	WC-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-03	WC-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-04	WC-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-05	WC-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-06	WC-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3482-07	WC-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/24/2025	Chemtech -SO
Q3483-01	HW1025-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-02	HW1025-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-03	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-04	HW1025-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-05	HW1025-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-06	HW1025-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-07	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-08	HW1025-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-09	HW1025-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-10	HW1025-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-11	HW1025-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-12	HW1025-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO

Date/Time: 10/29/25 15:00
 Raw Sample Received by: 80 WC,
 Raw Sample Relinquished by: 80 WC,
 Date/Time: 10/29/25 17:30
 Raw Sample Received by: 80 WC,
 Raw Sample Relinquished by: 80 WC

WORKLIST(Hardcopy Internal Chain)

8137700

WorkList Name : %1-102925 WorkList ID : 192745 Department : Wet-Chemistry Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-13	HW1025-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-14	HW1025-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-15	HW1025-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-16	HW1025-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-17	HW1025-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-18	HW1025-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-19	HW1025-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-20	HW1025-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-21	HW1025-PT-CHLOR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-22	HW1025-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-23	HW1025-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3483-25	HW1025-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3485-01	TR-04-102924	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3485-02	TR-04-102924-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/29/2025	Chemtech -SO
Q3486-01	TP3	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-02	TP3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-03	TP4	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-04	TP4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-05	TP5	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-06	TP5-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3486-07	TP6	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/29/25 13:00
 Raw Sample Received by: SB WVC
 Raw Sample Relinquished by: CH(SM)

Date/Time 10/29/25
 Raw Sample Received by: CH(SM)
 Raw Sample Relinquished by: SB WVC

WORKLIST(Hardcopy Internal Chain)

10/29/25

WorkList Name : %1-102925

WorkList ID : 192745

Department : Wet-Chemistry

Date : 10-29-2025 07:47:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3486-08	TP6-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/29/25 15:00

Raw Sample Received by: SA WWC

Raw Sample Relinquished by: Cpl (sm)

Date/Time

10/29/25 17:30

Raw Sample Received by:

Cpl (sm)

Raw Sample Relinquished by:

SA ADC

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3483-24	HW1025-PT-SOL-SOIL	1	1.16	10.70	11.86	9.24	75.5	
Q3487-01	KZZ294Z-A	2	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-02	KZZ294Z-B	3	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-03	KZZ256R-A	4	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-04	KZZ256R-B	5	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-05	JEH623H-A	6	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-06	JEH623H-B	7	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-07	M3-A	8	1.00	1.00	2.00	2.00	100.0	PILC
Q3487-08	M3-B	9	1.00	1.00	2.00	2.00	100.0	PILC
Q3488-01	MOO-25-0294-0298	10	1.00	1.00	2.00	2.00	100.0	Concrete sample
Q3488-02	MOO-25-0299	11	1.15	10.33	11.48	10.88	94.2	
Q3488-04	MOO-25-0302-0310	12	1.18	10.45	11.63	10.08	85.2	
Q3488-05	MOO-25-0302-0310	13	1.15	10.46	11.61	10.7	91.3	
Q3488-06	MOO-25-0311-0313	46	1.15	10.37	11.52	10.64	91.5	
Q3489-01	245F72-A	14	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-02	245F72-B	15	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-03	L54-A	16	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-04	L54-B	17	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-05	L55-A	18	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-06	L55-A	19	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-07	L56-A	20	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-08	L56-B	21	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-09	L57-A	22	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-10	L57-B	23	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-11	L58-A	24	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-12	L58-2	25	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-13	L59-A	26	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-14	L59-B	27	1.00	1.00	2.00	2.00	100.0	PILC

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/31/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 10/30/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:20
Out Date: 10/31/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC:LB137714

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3489-15	L60-A	28	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-16	L60-B	29	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-17	L61-A	30	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-18	L61-B	31	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-19	L62-A	32	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-20	L62-B	33	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-21	L63-A	34	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-22	L63-B	35	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-23	L64-A	36	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-24	L64-B	37	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-25	L65-A	38	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-26	L65-B	39	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-27	STC21-A	40	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-28	STC21-B	41	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-29	STF24-A	42	1.00	1.00	2.00	2.00	100.0	PILC
Q3489-30	STF24-B	43	1.00	1.00	2.00	2.00	100.0	PILC
Q3490-01	LAW-25-0151	44	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3491-01	SOIL-CUTTINGS-COMP	45	1.18	10.80	11.98	9.13	73.6	
Q3495-01	SB-1025-1	47	1.19	10.24	11.43	8.99	76.2	
Q3495-02	SB-1025-2	48	1.14	10.43	11.57	8.97	75.1	
Q3496-01	DRILL-CUTTINGS	49	1.19	10.61	11.8	10.33	86.1	
Q3496-02	DRILL-CUTTINGS-E2	50	1.13	10.49	11.62	10.11	85.6	
Q3497-01	OK-01-103025	51	1.13	10.93	12.06	10.37	84.5	
Q3497-02	OK-01-103025-E2	52	1.19	10.59	11.78	10.25	85.6	

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

WORKLIST(Hardcopy Internal Chain)

137714

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-24	HW1025-PT-SOL-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	10/27/2025	Chemtech -SO
Q3487-01	KZZ294Z-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-02	KZZ294Z-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-03	KZZ256R-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-04	KZZ256R-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-05	JEH623H-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-06	JEH623H-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-07	M3-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3487-08	M3-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/29/2025	Chemtech -SO
Q3488-01	MOO-25-0294-0298	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-02	MOO-25-0299	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-04	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-05	MOO-25-0302-0310	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3488-06	MOO-25-0311-0313	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-01	245F72-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-02	245F72-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-03	L54-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-04	L54-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-05	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-06	L55-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-07	L56-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 15:00
 Raw Sample Received by: JG (wvc)
 Raw Sample Relinquished by: RS c (1711-126)
 Date/Time 10/30/25 17:30
 Raw Sample Received by: RS (1511-126)
 Raw Sample Relinquished by: JG (wvc)

WORKLIST(Hardcopy Internal Chain)

WB 137714

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-08	L56-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-09	L57-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-10	L57-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-11	L58-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-12	L58-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-13	L59-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-14	L59-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-15	L60-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-16	L60-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-17	L61-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-18	L61-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-19	L62-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-20	L62-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-21	L63-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-22	L63-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-23	L64-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-24	L64-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-25	L65-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-26	L65-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-27	STC21-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-28	STC21-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO

Date/Time 10/30/25 15:30
 Raw Sample Received by: sg wvc
 Raw Sample Relinquished by: RS C EIT-1260

Date/Time 10/30/25 17:30
 Raw Sample Received by: RS C EIT-1260
 Raw Sample Relinquished by: sg wvc

WORKLIST(Hardcopy Internal Chain)

UB 13FF14

WorkList Name : %1-103025 WorkList ID : 192793 Department : Wet-Chemistry Date : 10-30-2025 10:50:32

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3489-29	STF24-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3489-30	STF24-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3490-01	LAW-25-0151	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3491-01	SOIL-CUTTINGS-COMP	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/29/2025	Chemtech -SO
Q3495-01	SB-1025-1	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3495-02	SB-1025-2	Solid	Percent Solids	Cool 4 deg C	REMI02	D51	10/27/2025	Chemtech -SO
Q3496-01	DRILL-CUTTINGS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3496-02	DRILL-CUTTINGS-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/30/2025	Chemtech -SO
Q3497-01	OK-01-103025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO
Q3497-02	OK-01-103025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	10/30/2025	Chemtech -SO

Date/Time 10/30/25 15:00
 Raw Sample Received by: SB WWC
 Raw Sample Relinquished by: RS C (EIT-1066)

Date/Time 10/30/25 17:30
 Raw Sample Received by: RS C (EIT-1066)
 Raw Sample Relinquished by: SB WWC

SOP ID: M3541-ASE Extraction-15

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/18/2025

Extraction Start Time : 08:33

Extraction End Date : 11/18/2025

Extraction End Time : 11:45

Concentration By: EH

Supervisor By : RUPESH

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	SP6876
Surrogate	1.0ML	0.4 PPM	SP6893
LOD	1.0ML	N/A 1 PPM	SP6925
LOQ	1.0ML	N/A 0.2 PPM	SP6926
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2659
Baked Na2SO4	N/A	EP2655
Sand	N/A	E3951
Methylene Chloride	N/A	E3986
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:

1.5ML Vial Lot # 2210443.

KD Bath ID: N/A

Envap ID: N-EVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/18/25	RS (Ext-Lab)	J4/SV
11:50	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-15

Concentration Date: 11/18/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170590BL	SBLK590	SVOC-SIMGrou p1	30.02	N/A	ritesh	Evelyn	1			U6-1
PB170590BS	SLCS590	SVOC-SIMGrou p1	30.03	N/A	ritesh	Evelyn	1			2
Q3483-11	HW1025-PT-BNA-SOIL	SVOCMS Group2	29.85	N/A	ritesh	Evelyn	1			3
Q3483-12	HW1025-PT-TRIAZINE-SO IL	SVOCMS Group5	30.36	N/A	ritesh	Evelyn	1			4
Q3483-13	HW1025-PT-PAH-SOIL	SVOCMS Group3	30.21	N/A	ritesh	Evelyn	1			5
Q3530-01	LOD-MDL-SOIL-01-QT4-2 025	SVOC-SIMGrou p1	30.04	N/A	ritesh	Evelyn	1			6
Q3530-02	LOQ-SOIL-02-QT4-2025	SVOC-SIMGrou p1	30.01	N/A	ritesh	Evelyn	1			U7-1
Q3618-01	EME-TOP-SOIL	SVOC-SIMGrou p1	30.05	N/A	ritesh	Evelyn	1	E		2
Q3618-02	EME-GENERAL-FILL	SVOC-SIMGrou p1	30.07	N/A	ritesh	Evelyn	1	F		3
Q3618-02MS	EME-GENERAL-FILLMS	SVOC-SIMGrou p1	30.04	N/A	ritesh	Evelyn	1	F		4
Q3618-02MS D	EME-GENERAL-FILLMSD	SVOC-SIMGrou p1	30.06	N/A	ritesh	Evelyn	1	F		5



* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3618 WorkList ID : 193166 Department : Extraction Date : 11-18-2025 08:28:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3483-11	HW1025-PT-BNA-SOIL	Solid	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	10/27/2025	8270-Modified
Q3483-12	HW1025-PT-TRIAZINE-SOIL	Solid	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	10/27/2025	8270-Modified
Q3483-13	HW1025-PT-PAH-SOIL	Solid	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	10/27/2025	8270-Modified
Q3530-01	LOD-MDL-SOIL-01-QT4-2025	Solid	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA Of	11/03/2025	8270-Modified
Q3530-02	LOQ-SOIL-02-QT4-2025	Solid	SVOC-SIMGroup1	Cool 4 deg C	ALLI03	QA Of	11/03/2025	8270-Modified
Q3618-01	EME-TOP-SOIL	Solid	SVOC-SIMGroup1	Cool 4 deg C	ENTA05	D41	11/12/2025	8270-Modified
Q3618-02	EME-GENERAL-FILL	Solid	SVOC-SIMGroup1	Cool 4 deg C	ENTA05	D41	11/12/2025	8270-Modified

Date/Time 11/18/25 8:28
Raw Sample Received by: RJ (Ext-66)
Raw Sample Relinquished by: AL

Date/Time 11/17/25 8:45
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RJ (Ext-66)

Prep Standard - Chemical Standard Summary

Order ID : Q3483

Test : SVOCMS Group3

Prepbatch ID : PB170590,

Sequence ID/Qc Batch ID: BN120125,BN120125,BN120125,

Standard ID :

EP2655,EP2659,SP6830,SP6875,SP6876,SP6893,SP6896,SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904,SP6905,SP6906,SP6907,SP6919,SP6924,SP6925,SP6926,

Chemical ID :

10ul/1000ul

sample,E3875,E3942,E3951,E3972,E3973,E3980,E3982,E3986,S10105,S11497,S11652,S11828,S12116,S12201,S12273,S12560,S12563,S12564,S12577,S12670,S12905,S13058,S13097,S13120,S13122,S13123,S13182,S13245,S13249,S13299,

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	EP2655	10/24/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 10/24/2025

FROM 4000.00000gram of E3875 = 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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2659	11/03/2025	04/16/2026	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 11/03/2025

FROM 8000.00000ml of E3980 + 8000.00000ml of E3982 = Final Quantity: 16000.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6875	09/30/2025	03/30/2026	Rahul Chavli	None	None	Jagrut Upadhyay
								09/30/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml

[illegible]

<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	SP6893	10/09/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli 10/09/2025
<u>FROM</u> 0.00800ml of S12201 + 0.01600ml of S12905 + 0.04000ml of S11828 + 199.93600ml of E3972 = Final Quantity: 200.000 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)	SP6896	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli 11/06/2025
<u>FROM</u>	0.03350ml of S10105 + 0.05000ml of S11497 + 0.12500ml of S11828 + 0.12500ml of S12116 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3980 = Final Quantity: 25.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6897	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli 11/06/2025
<u>FROM</u> 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6896 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6898	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.68000ml of E3980 + 0.01000ml of SP6830 + 0.32000ml of SP6896 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6900	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.84000ml of E3980 + 0.01000ml of SP6830 + 0.16000ml of SP6896 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6901	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.92000ml of E3980 + 0.01000ml of SP6830 + 0.08000ml of SP6896 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6902	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.96000ml of E3980 + 0.01000ml of SP6830 + 0.04000ml of SP6896 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6903	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.50000ml of E3980 + 0.01000ml of SP6830 + 0.50000ml of SP6902 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6904	10/22/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								11/06/2025

FROM 0.75000ml of E3980 + 0.01000ml of SP6830 + 0.25000ml of SP6902 = Final Quantity: 1.010 ml



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

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

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6907	11/07/2025	04/16/2026	Jagrut Upadhyay	None	None	mohammad ahmed
								11/13/2025

FROM 0.10000ml of S13182 + 4.90000ml of E3980 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1366	LOQ & LOD 20 PPM	SP6919	11/17/2025	04/16/2026	Jagrut Upadhyay	None	None	mohammad ahmed
								11/17/2025

FROM 0.20000ml of S13123 + 0.40000ml of S12564 + 0.40000ml of S13249 + 0.40000ml of S13299 + 18.60000ml of E3986 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1374	LOQ & LOD 1 PPM	SP6924	11/17/2025	04/16/2026	Jagrut Upadhyay	None	None	mohammad ahmed
								11/17/2025

FROM 23.75000ml of E3986 + 1.25000ml of SP6919 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2151	LOQ & LOD 0.1 PPM	SP6925	11/17/2025	04/16/2026	Jagrut Upadhyay	None	None	mohammad ahmed
								11/17/2025

FROM 9.00000ml of E3986 + 1.00000ml of SP6924 = Final Quantity: 10.000 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>
1376	LOQ & LOD 0.2 PPM	SP6926	11/17/2025	04/16/2026	Jagrut Upadhyay	None	None	mohammad ahmed
11/17/2025								
<u>FROM</u> 8.00000ml of E3986 + 2.00000ml of SP6924 = Final Quantity: 10.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	07/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	25A2756718	12/31/2028	07/09/2025 / RUPESH	04/28/2020 / RUPESH	E3951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	09/16/2025 / Evelyn	09/04/2025 / Riteshkumar	E3972

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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)	25C1262005	04/16/2026	10/10/2025 / RUPESH	10/10/2025 / RUPESH	E3980

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)	24L1062001	10/04/2027	10/31/2025 / RUPESH	10/31/2025 / RUPESH	E3982

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)	25C1262005	04/16/2026	11/14/2025 / RUPESH	11/05/2025 / RUPESH	E3986

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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	04/22/2026	10/22/2025 / Jagrut	08/11/2023 / Yogesh	S11497

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

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	04/22/2026	10/22/2025 / Jagrut	03/08/2024 / Rahul	S12116

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	03/22/2026	09/22/2025 / Jagrut	03/15/2024 / Rahul	S12201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	03/22/2026	09/22/2025 / Jagrut	07/23/2024 / RAHUL	S12560

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	04/16/2026	10/16/2025 / Jagrut	07/23/2024 / RAHUL	S12563

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/31/2026	11/17/2025 / Jagrut	07/23/2024 / RAHUL	S12564

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

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	A0216785	03/22/2026	09/22/2025 / Jagrut	12/09/2024 / anahy	S12905

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)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

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]	A0221014	11/30/2025	09/03/2025 / Jagrut	05/20/2025 / Rahul	S13097

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	A0218894	02/25/2026	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13120

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	A0218894	04/16/2026	10/16/2025 / Jagrut	05/20/2025 / Rahul	S13122

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	A0218894	05/17/2026	11/17/2025 / Jagrut	05/20/2025 / Rahul	S13123

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	A0224359	05/07/2026	11/07/2025 / rahul	06/02/2025 / anahy	S13182

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]	A0228451	03/23/2026	09/22/2025 / Jagrut	08/06/2025 / Rahul	S13245

[CS 4978-1]

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]	A0228451	04/27/2026	10/27/2025 / Jagrut	08/06/2025 / Rahul	S13249

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0229652	04/27/2026	10/27/2025 / Jagrut	10/15/2025 / rahul	S13299



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
Chemist



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

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

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



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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



Material	BDH9274-2.5KG
Material Description	BDH SAND STDD OTTAWA W+I 2.5KG
Grade	NOT APPLICABLE
Batch	25A2756718
Reassay Date	12/31/2028
CAS Number	14808-60-7
Molecular Formula	SiO ₂
Molecular Mass	60.09
Date of Manufacture	12/05/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Beige granules.	Beige granules.
Moisture	<= 0.1 %	0.1 %
Particle Size 30-40 mesh	>= 80 %	99 %
CUSTOMER PART # BDH9274-2.5KG		

Received on 1/12/25.

E3951

Internal ID #: 793

Signature	Additional Information
We certify that this batch conforms to the specifications listed above. 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	Analysis may have been rounded to significant digits in specification limits Product meets analytical specifications of the grades listed.

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3972

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

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



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

REC. on 10/10/25
RJ

E3980

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors**™



Material No.: 9254-03

Batch No.: 24L1062001

Manufactured Date: 2024-10-04

Expiration Date: 2027-10-04

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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on 10/29/25

E3982

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
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	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

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

Received on 11/5/25

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3986

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



5580 Skyline Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

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



CERTIFIED REFERENCE MATERIAL

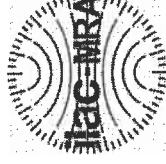
110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No.:	555872	Lot No.:	A0201728
Description:	Custom Pentachlorophenol Standard		
	Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul		
Container Size:	2 mL	Pkg Amt:	> 1 mL
Expiration Date:	September 30, 2026	Storage:	10°C or colder
		Ship:	Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey
Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

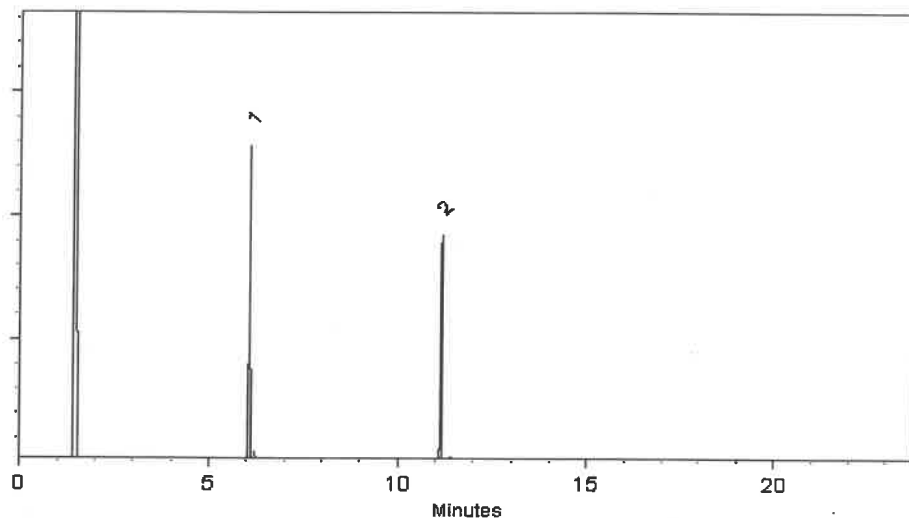
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

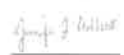


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Page 1 of 1

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

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

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

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

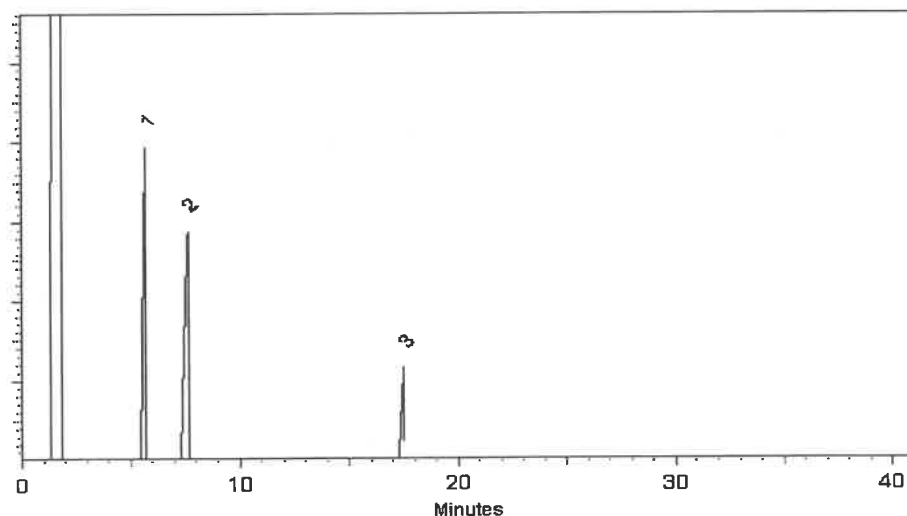
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Date Received: _____

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Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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



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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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chromatographic plus



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

Catalog No. : 31615 **Lot No.:** A0212955
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 : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

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

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

S12577
↓
S12579 } RC
8/2/24

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.)

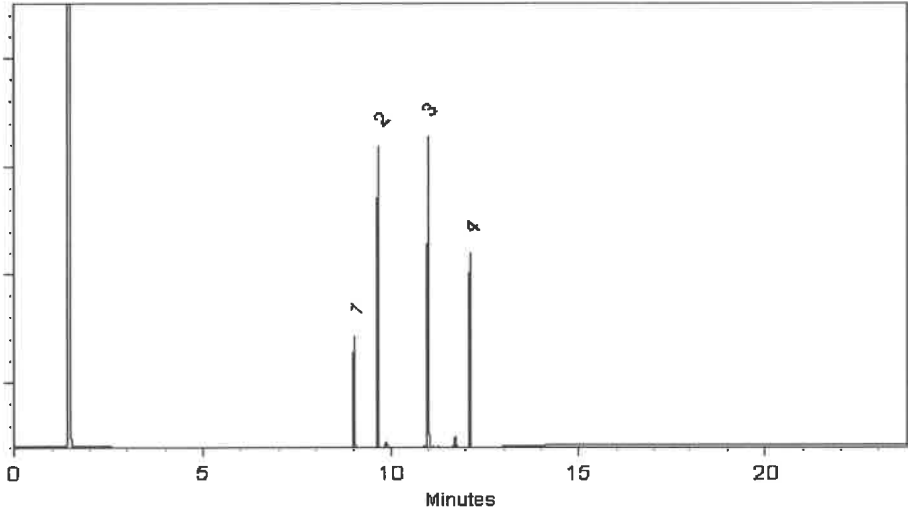
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

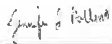
Inj. Vol
1µl



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.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645
↓
S12674 } AC
10/1/24



5580 Skyline Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	$\leq -10^{\circ}\text{C}$	Methylene Chloride	1/2/2030	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	337.7.4P	997 $\pm$ 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 $\pm$ 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 $\pm$ 5.82

513057 } AC
↓
513061 } 1/16/25

*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: _____

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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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



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

Catalog No. : 31850 **Lot No.:** A0221014

Description : 8270 MegaMix®

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

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

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

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

513088 }
↓
513117 } 24
5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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:

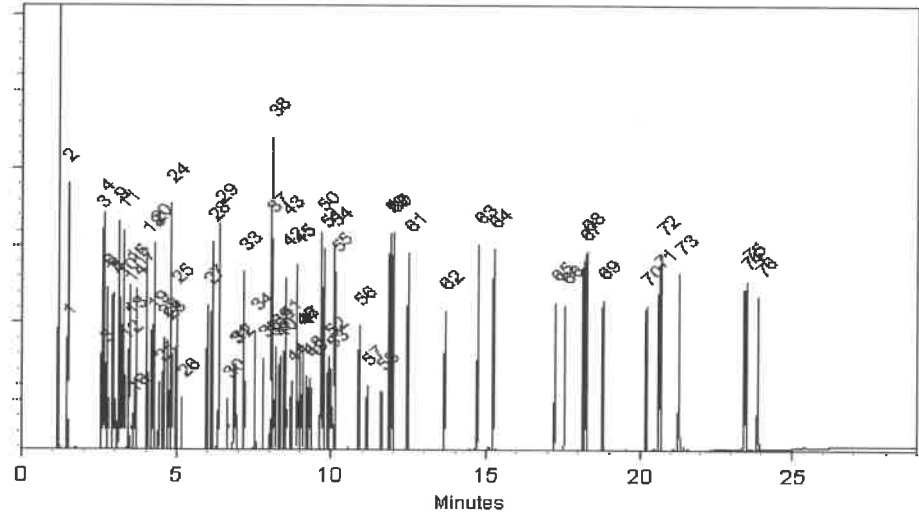
FID

Split Vent:

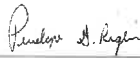
100 ml/min.

Inj. Vol

1µl

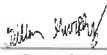


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025

Balance Serial # 1128360905


Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0218894
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2029 **Storage:** 0°C or colder
Ship: Ambient

513118 } RC/
↓
513147 } 5/20/25.

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	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* 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:

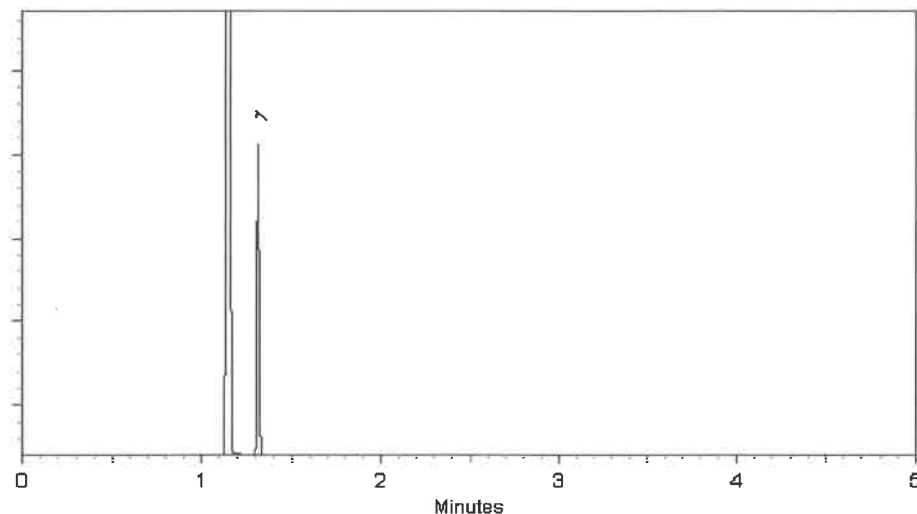
FID

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.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0218894
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2029 **Storage:** 0°C or colder
Ship: Ambient

513118 } RC/
↓
513147 } 5/20/25.

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	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* 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:

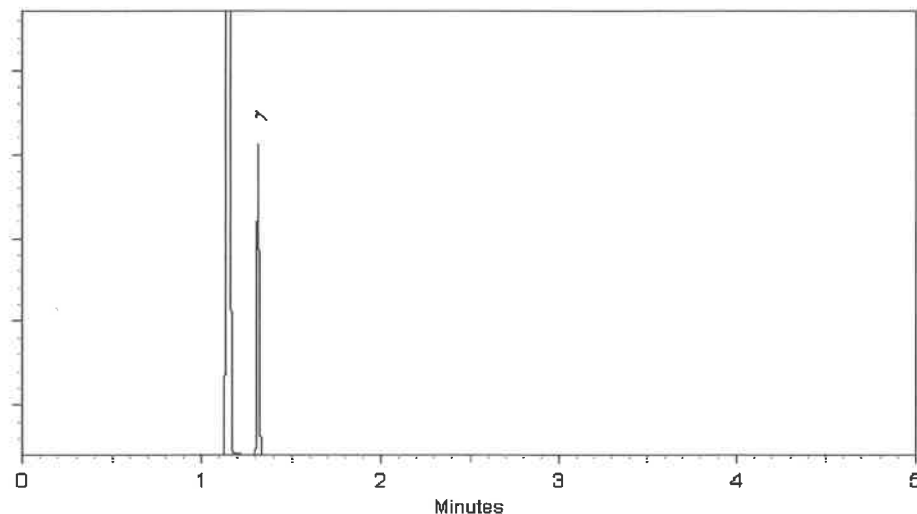
FID

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.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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



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

Catalog No. : 31853 **Lot No.:** A0218894
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : November 30, 2029 **Storage:** 0°C or colder
Ship: Ambient

513118 } RC/
↓
513147 } 5/20/25.

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	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* 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:

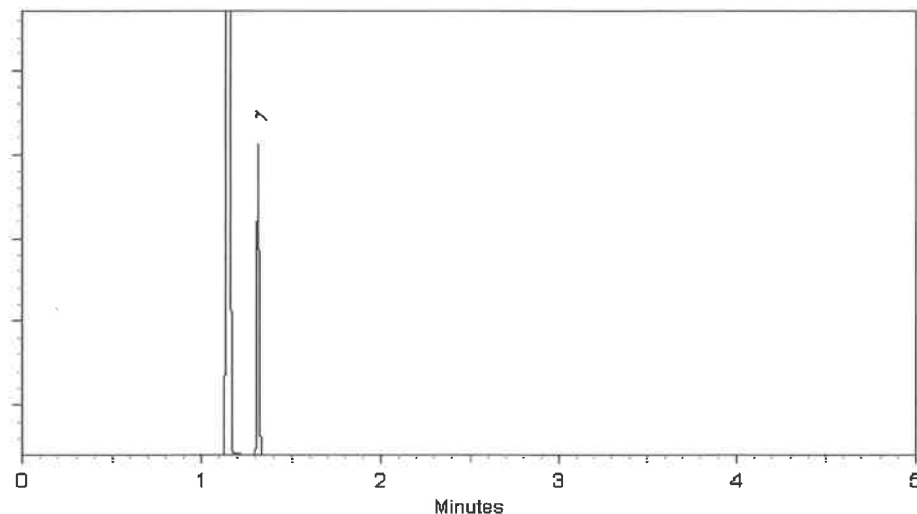
FID

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.

Penelope Righlin - Operations Tech I

Date Mixed: 07-Nov-2024

Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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



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

Catalog No. : 31206 **Lot No.:** A0224359

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 : March 31, 2031 **Storage:** 10°C or colder

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

S13168
↓
S13197 } AC
6/9/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

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

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



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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.:** A0228451

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 : August 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

S13239 } RC/
↓
S13268 } 08/06/25

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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

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

Tom Sucka - Mix Technician

Date Mixed: 01-Aug-2025

Balance: 1128360905

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



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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.:** A0228451

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 : August 31, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

S13239 } RC/
↓
S13268 } 08/06/25

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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

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


Tom Sucka - Mix Technician

Date Mixed: 01-Aug-2025

Balance: 1128360905

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



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CERTIFIED REFERENCE MATERIAL

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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. : 31850 **Lot No.:** A0229652

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

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

Expiration Date : July 31, 2026 **Storage:** 0°C or colder

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

513299 } RC/
↓ 10/17/25
513328 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,004.9 µg/mL	+/- 36.5621
2	N-Nitrosodimethylamine	62-75-9	S250717RSR	99%	1,004.5 µg/mL	+/- 36.5484
3	Phenol	108-95-2	MKCT5446	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,004.8 µg/mL	+/- 36.5575
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.6 µg/mL	+/- 36.5166
6	2-Chlorophenol	95-57-8	STBK4742	99%	1,004.5 µg/mL	+/- 36.5484
7	1,3-Dichlorobenzene	541-73-1	STBL1702	99%	1,003.8 µg/mL	+/- 36.5211
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.8 µg/mL	+/- 36.5211
9	Benzyl alcohol	100-51-6	094986W07G	99%	1,003.8 µg/mL	+/- 36.5211
10	1,2-Dichlorobenzene	95-50-1	SHBR4446	99%	1,004.9 µg/mL	+/- 36.5621
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.3 µg/mL	+/- 36.5393
12	2,2'-oxybis(1-chloropropane)	108-60-1	RP250904RSR	99%	1,005.0 µg/mL	+/- 36.5666
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.4 µg/mL	+/- 18.2788
14	4-Methylphenol (p-cresol)	106-44-5	SHBQ7653	99%	502.3 µg/mL	+/- 18.2742
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.9 µg/mL	+/- 36.5621
16	Hexachloroethane	67-72-1	DAXRI	99%	1,003.9 µg/mL	+/- 36.5257
17	Nitrobenzene	98-95-3	10224044	99%	1,003.9 µg/mL	+/- 36.5257

18	Isophorone	78-59-1	MKCR3249	99%	1,004.8	µg/mL	+/- 36.5575
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.6	µg/mL	+/- 36.5166
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.1	µg/mL	+/- 36.5348
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.5	µg/mL	+/- 36.5484
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.8	µg/mL	+/- 36.5575
23	1,2,4-Trichlorobenzene	120-82-1	SHBR1701	99%	1,004.0	µg/mL	+/- 36.5302
24	Naphthalene	91-20-3	STBL1057	99%	1,004.0	µg/mL	+/- 36.5302
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.5	µg/mL	+/- 36.5484
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.7	µg/mL	+/- 36.4816
27	4-Chloro-3-methylphenol	59-50-7	BCCK5906	99%	1,004.3	µg/mL	+/- 36.5393
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.5	µg/mL	+/- 36.4029
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3847
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,004.0	µg/mL	+/- 36.5302
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,003.5	µg/mL	+/- 36.5120
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,003.6	µg/mL	+/- 36.5152
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,003.6	µg/mL	+/- 36.5166
34	2-Nitroaniline	88-74-4	RP250625RSR	99%	1,003.8	µg/mL	+/- 36.5211
35	1,4-Dinitrobenzene	100-25-4	RP250401RSR	99%	1,004.6	µg/mL	+/- 36.5530
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.4	µg/mL	+/- 36.3974
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.8	µg/mL	+/- 36.5575
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,003.5	µg/mL	+/- 36.5120
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,004.6	µg/mL	+/- 36.5530
40	1,2-Dinitrobenzene	528-29-0	RP250203RSR	99%	1,002.6	µg/mL	+/- 36.4802
41	Acenaphthene	83-32-9	MKCV8166	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,003.8	µg/mL	+/- 36.5211
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,004.1	µg/mL	+/- 36.5348
44	Dibenzofuran	132-64-9	MKCW3845	99%	1,003.6	µg/mL	+/- 36.5166
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,003.8	µg/mL	+/- 36.5211
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,003.0	µg/mL	+/- 36.4938
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,003.8	µg/mL	+/- 36.5211
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP250724RSR	99%	1,003.1	µg/mL	+/- 36.4984
49	Fluorene	86-73-7	10246250	98%	1,002.9	µg/mL	+/- 36.4905
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.3	µg/mL	+/- 36.5393
51	Diethylphthalate	84-66-2	223219R19C	99%	1,004.8	µg/mL	+/- 36.5575
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,004.0	µg/mL	+/- 36.5302
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S250805RSR	99%	1,004.8	µg/mL	+/- 36.5575

54	Diphenylamine	122-39-4	MKCT1512	99%	1,004.9	µg/mL	+/- 36.5621
55	Azobenzene	103-33-3	BCCL3292	99%	1,003.9	µg/mL	+/- 36.5257
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.9	µg/mL	+/- 36.5257
57	Hexachlorobenzene	118-74-1	16302300	99%	1,004.5	µg/mL	+/- 36.5484
58	Pentachlorophenol	87-86-5	RP240411RSR	99%	1,004.9	µg/mL	+/- 36.5621
59	Phenanthrene	85-01-8	MKCV8193	99%	1,003.8	µg/mL	+/- 36.5211
60	Anthracene	120-12-7	MKCW9141	99%	1,003.3	µg/mL	+/- 36.5029
61	Carbazole	86-74-8	15821400	99%	1,003.1	µg/mL	+/- 36.4984
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,004.6	µg/mL	+/- 36.5530
63	Fluoranthene	206-44-0	A0458721	99%	1,004.8	µg/mL	+/- 36.5575
64	Pyrene	129-00-0	BCCL8032	99%	1,003.8	µg/mL	+/- 36.5211
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.9	µg/mL	+/- 36.5621
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,003.4	µg/mL	+/- 36.5075
67	Benz(a)anthracene	56-55-3	I80012022BAA	99%	1,004.3	µg/mL	+/- 36.5393
68	Chrysene	218-01-9	RP250815RSR	99%	1,003.9	µg/mL	+/- 36.5257
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.5	µg/mL	+/- 36.5484
70	Di-n-octyl phthalate	117-84-0	16197600	99%	1,004.4	µg/mL	+/- 36.5439
71	Benzo(b)fluoranthene	205-99-2	0225BF	99%	1,005.4	µg/mL	+/- 36.5803
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,004.5	µg/mL	+/- 36.5484
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,002.4	µg/mL	+/- 36.4726
74	Indeno(1,2,3-cd)pyrene	193-39-5	17-YMK-40-2	99%	1,004.0	µg/mL	+/- 36.5302
75	Dibenz(a,h)anthracene	53-70-3	712215450-1-1	99%	1,003.5	µg/mL	+/- 36.5120
76	Benzo(g,h,i)perylene	191-24-2	RP250501RSR	98%	1,003.0	µg/mL	+/- 36.4949

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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:

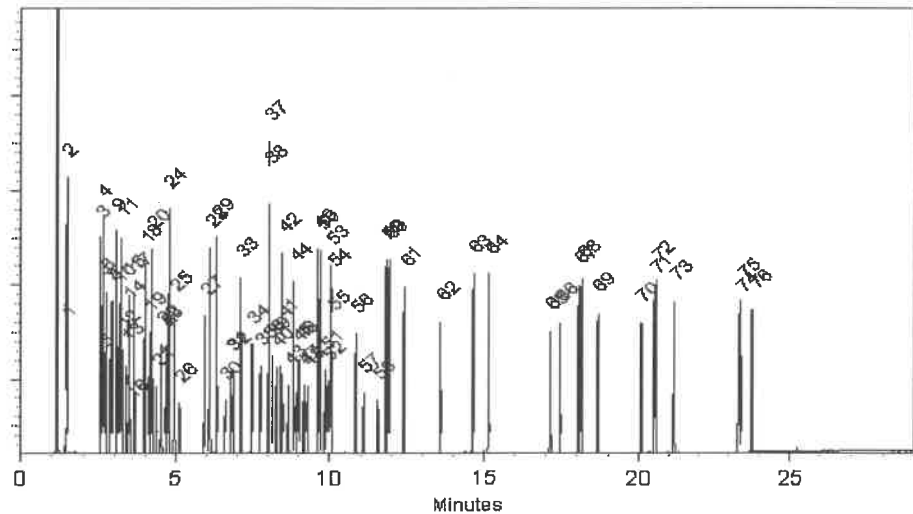
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl

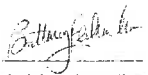


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 04-Sep-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech II

Date Passed: 15-Sep-2025

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



SHIPPING DOCUMENTS

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/termsandsale

Date	Order #
10/27/2025	333294



Ship To

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

Received by: SJ
10/29/2025 12:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-3469	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW1025	7102-04B
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW1025	7102-05A2
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW1025	7102-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW1025	7102-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW1025	7102-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW1025	7102-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW1025	7102-09
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW1025	7102-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW1025	7102-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW1025	7102-96
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW1025	7102-100
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW1025	7102-94B
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW1025	7102-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW1025	7102-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW1025	7102-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW1025	7102-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW1025	7102-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW1025	7102-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW1025	7102-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW1025	7102-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW1025	7102-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW1025	7102-106



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Certified Reference Materials

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Packing List

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Golden, CO 80403

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1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW1025	7102-105

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312