



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

Hit Summary Sheet SW-846

SDG No.: Q1870
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 38072-010925							
Q1870-01	38072-010925	WATER	Acenaphthylene	240.000	E 0.04	0.1	ug/L
			Total Svoc :	240.00			
			Total Concentration:	240.00			
Client ID : 38072-010925DL							
Q1870-01DL	38072-010925DL	WATER	Acenaphthylene	240.000	ED 0.19	0.5	ug/L
			Total Svoc :	240.00			
			Total Concentration:	240.00			
Client ID : 38072-010925DL2							
Q1870-01DL2	38072-010925DL2	WATER	Acenaphthylene	230.000	D 1.9	5	ug/L
			Total Svoc :	230.00			
			Total Concentration:	230.00			



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925	SDG No.:	Q1870
Lab Sample ID:	Q1870-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036936.D	1	04/24/25 12:05	04/29/25 13:05	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	E	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	105%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150	115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1930	7.633			
1146-65-2	Naphthalene-d8	5450	10.415			
15067-26-2	Acenaphthene-d10	3190	14.277			
1517-22-2	Phenanthrene-d10	6290	17.021			
1719-03-5	Chrysene-d12	6090	21.225			
1520-96-3	Perylene-d12	4540	23.427			

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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036937.D	5	04/24/25 12:05	04/29/25 13:41	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	240	ED	0.19	0.50	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.42		20 - 139	104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150	110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		27 - 154	105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		25 - 149	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		54 - 175	88%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2660		7.633		
1146-65-2	Naphthalene-d8	7270		10.404		
15067-26-2	Acenaphthene-d10	4170		14.277		
1517-22-2	Phenanthrene-d10	8000		17.021		
1719-03-5	Chrysene-d12	7790		21.216		
1520-96-3	Perylene-d12	5960		23.427		

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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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Waste Water PT	Date Received:	04/23/25
Client Sample ID:	38072-010925DL2	SDG No.:	Q1870
Lab Sample ID:	Q1870-01DL2	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036938.D	50	04/24/25 12:05	04/29/25 14:17	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	230	D	1.90	5.00	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0	*	20 - 139	0%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0	*	30 - 150	0%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0	*	27 - 154	0%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0	*	25 - 149	0%	SPK: 0.4
1718-51-0	Terphenyl-d14	0	*	54 - 175	0%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2430		7.633		
1146-65-2	Naphthalene-d8	6300		10.415		
15067-26-2	Acenaphthene-d10	3590		14.277		
1517-22-2	Phenanthrene-d10	7140		17.021		
1719-03-5	Chrysene-d12	6700		21.215		
1520-96-3	Perylene-d12	5500		23.43		

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MDL = Method Detection Limit

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1870

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
PB167728BL	PB167728BL	2-Methylnaphthalene-d10	0.4	0.32	81		20	139
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.33	82		27	154
		2-Fluorobiphenyl	0.4	0.35	88		25	149
		Terphenyl-d14	0.4	0.37	91		54	175
PB167728BS	PB167728BS	2-Methylnaphthalene-d10	0.4	0.37	93		20	139
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.35	87		27	154
		2-Fluorobiphenyl	0.4	0.37	92		25	149
		Terphenyl-d14	0.4	0.36	89		54	175
Q1870-01	38072-010925	2-Methylnaphthalene-d10	0.4	0.42	105		20	139
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.42	104		27	154
		2-Fluorobiphenyl	0.4	0.41	103		25	149
		Terphenyl-d14	0.4	0.37	93		54	175
Q1870-01DL	38072-010925DL	2-Methylnaphthalene-d10	0.4	0.42	104		20	139
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.42	105		27	154
		2-Fluorobiphenyl	0.4	0.41	101		25	149
		Terphenyl-d14	0.4	0.35	88		54	175
Q1870-01DL2	38072-010925DL2	2-Methylnaphthalene-d10	0.4	0	0	*	20	139
		Fluoranthene-d10	0.4	0	0	*	30	150
		Nitrobenzene-d5	0.4	0	0	*	27	154
		2-Fluorobiphenyl	0.4	0	0	*	25	149
		Terphenyl-d14	0.4	0	0	*	54	175

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1870

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN036939.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB167728BS	Acenaphthylene	0.4	0.37	ug/L	93				60	119	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167728BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q1870

SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036934.D

Lab Sample ID: PB167728BL

Instrument ID: BNA_N

Date Extracted: 04/24/2025

Matrix: (soil/water) Water

Date Analyzed: 04/29/2025

Level: (low/med) LOW

Time Analyzed: 09:53

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167728BS	PB167728BS	BN036939.D	04/29/2025
38072-010925	Q1870-01	BN036936.D	04/29/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM

SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036922.D

DFTPP Injection Date: 04/28/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	23.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.3 (19.4) 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	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM

SAS No.: Q1870 SDG NO.: Q1870

Lab File ID: BN036932.D

DFTPP Injection Date: 04/29/2025

Instrument ID: BNA_N

DFTPP Injection Time: 08:38

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	70.2
68	Less than 2.0% of mass 69	0.8 (1.3) 1
69	Mass 69 relative abundance	59.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	54.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	23.1
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	7.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	9.9 (21.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN036933.D	04/29/2025	09:17
PB167728BL	PB167728BL	BN036934.D	04/29/2025	09:53
38072-010925	Q1870-01	BN036936.D	04/29/2025	13:05
38072-010925DL	Q1870-01DL	BN036937.D	04/29/2025	13:41
38072-010925DL2	Q1870-01DL2	BN036938.D	04/29/2025	14:17
PB167728BS	PB167728BS	BN036939.D	04/29/2025	14:54

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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	2604	7.633	6625	10.40	3573	14.28
UPPER LIMIT	5208	8.133	13250	10.904	7146	14.777
LOWER LIMIT	1302	7.133	3312.5	9.904	1786.5	13.777
EPA SAMPLE NO.						
01 PB167728BL	2379	7.63	5573	10.42	2873	14.28
02 38072-010925	1925	7.63	5445	10.42	3190	14.28
03 38072-010925DL	2660	7.63	7273	10.40	4170	14.28
04 PB167728BS	2630	7.63	6464	10.42	3313	14.28
05 38072-010925DL2	2432	7.63	6295	10.42	3589	14.28

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG NO.: Q1870

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/29/2025

Lab File ID: BN036933.D Time Analyzed: 09:17

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	6894	17.021	5083	21.216	4284	23.427
UPPER LIMIT	13788	17.521	10166	21.716	8568	23.927
LOWER LIMIT	3447	16.521	2541.5	20.716	2142	22.927
EPA SAMPLE NO.						
01 PB167728BL	5718	17.02	4280	21.22	3789	23.42
02 38072-010925	6294	17.02	6093	21.23	4542	23.43
03 38072-010925DL	7996	17.02	7787	21.22	5957	23.43
04 PB167728BS	6630	17.02	4615	21.22	3648	23.43
05 38072-010925DL2	7137	17.02	6695	21.22	5501	23.43

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.



QC SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BL	SDG No.:	Q1870
Lab Sample ID:	PB167728BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036934.D	1	04/24/25 12:05	04/29/25 09:53	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.040	U	0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		20 - 139	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150	90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		27 - 154	82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		25 - 149	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		54 - 175	91%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2380	7.633			
1146-65-2	Naphthalene-d8	5570	10.415			
15067-26-2	Acenaphthene-d10	2870	14.277			
1517-22-2	Phenanthrene-d10	5720	17.021			
1719-03-5	Chrysene-d12	4280	21.215			
1520-96-3	Perylene-d12	3790	23.424			

U = Not Detected

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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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB167728BS	SDG No.:	Q1870
Lab Sample ID:	PB167728BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group5
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036939.D	1	04/24/25 12:05	04/29/25 14:54	PB167728

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
208-96-8	Acenaphthylene	0.37		0.040	0.10	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.37		20 - 139	93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150	82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		27 - 154	87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		25 - 149	92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		54 - 175	89%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2630	7.633			
1146-65-2	Naphthalene-d8	6460	10.415			
15067-26-2	Acenaphthene-d10	3310	14.277			
1517-22-2	Phenanthrene-d10	6630	17.021			
1719-03-5	Chrysene-d12	4620	21.215			
1520-96-3	Perylene-d12	3650	23.427			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN042825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Apr 28 15:35:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)	n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4) S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5) S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)	bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)	Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)	Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11) SURR	2-Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)	2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15) S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)	Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)	Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)	Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.083	0.090	0.096	0.113	0.120	0.134	0.106		18.55
21)	4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)	Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)	Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)	Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)	Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)	Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27) SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)	Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31) S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)	Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)	Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)	Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN042825.M

36)	Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)	Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)	Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39) C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)	Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)	Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1870 SAS No.: Q1870 SDG No.: Q1870

Instrument ID: BNA_N Calibration Date/Time: 04/29/2025 09:17

Lab File ID: BN036933.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.542		-3.0	20.0
Fluoranthene-d10	1.037	0.998		-3.8	20.0
2-Fluorophenol	1.023	1.058		3.4	20.0
Phenol-d6	1.259	1.302		3.4	20.0
Nitrobenzene-d5	0.418	0.407		-2.6	20.0
2-Fluorobiphenyl	1.933	1.953		1.0	20.0
Acenaphthylene	1.955	1.903		-2.7	20.0
2,4,6-Tribromophenol	0.178	0.172		-3.4	20.0
Terphenyl-d14	0.944	0.951		0.7	20.0

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
 Data File : BN036936.D
 Acq On : 29 Apr 2025 13:05
 Operator : RC/JU
 Sample : Q1870-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-010925

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Apr 29 13:29:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

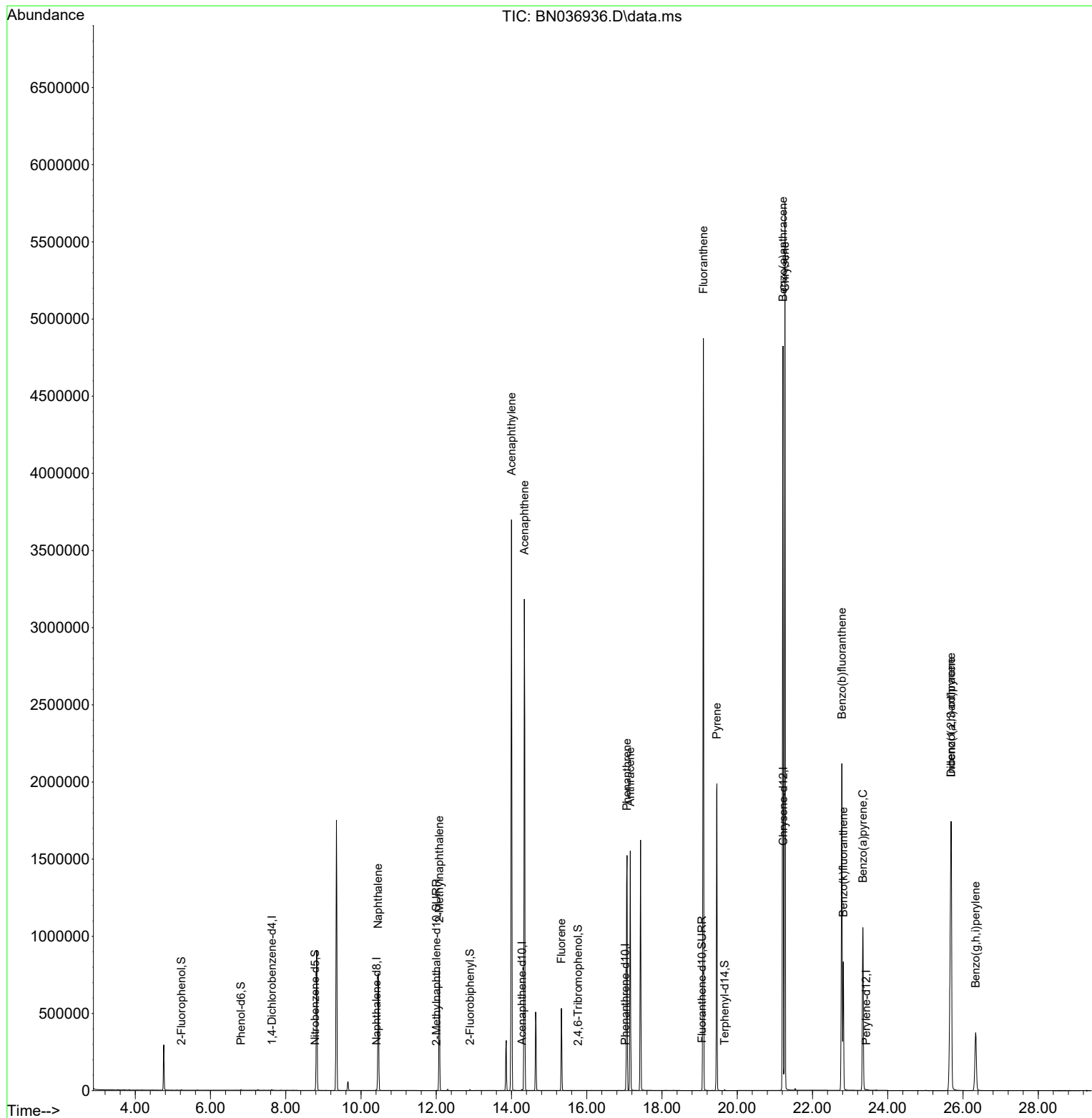
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	1925	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5445	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3190	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6294	0.400	ng	0.00
29) Chrysene-d12	21.225	240	6093	0.400	ng	0.00
35) Perylene-d12	23.427	264	4542	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1734	0.352	ng	0.00
5) Phenol-d6	6.810	99	2400	0.396	ng	0.00
8) Nitrobenzene-d5	8.782	82	2370	0.416	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3196	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.768	330	303	0.213	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	6365	0.413	ng	0.00
27) Fluoranthene-d10	19.063	212	7536	0.462	ng	0.00
31) Terphenyl-d14	19.663	244	5329	0.371	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.458	128	916595	57.839	ng	98
12) 2-Methylnaphthalene	12.082	142	515219	50.291	ng	99
16) Acenaphthylene	13.999	152	3723039	238.798	ng	99
17) Acenaphthene	14.342	154	1522189	148.602	ng	95
18) Fluorene	15.325	166	299838	22.381	ng	99
25) Phenanthrene	17.071	178	1651033	79.476	ng	100
26) Anthracene	17.158	178	1384185	73.661	ng	100
28) Fluoranthene	19.101	202	4394407	188.748	ng	98
30) Pyrene	19.458	202	1714365	58.420	ng	98
32) Benzo(a)anthracene	21.216	228	4066087	181.199	ng	99
33) Chrysene	21.269	228	4265016	176.238	ng	98
36) Indeno(1,2,3-cd)pyrene	25.684	276	2815525	151.786	ng	95
37) Benzo(b)fluoranthene	22.781	252	2651471	138.833	ng	# 88
38) Benzo(k)fluoranthene	22.819	252	864365	45.004	ng	# 87
39) Benzo(a)pyrene	23.339	252	1407542	89.656	ng	# 81
40) Dibenzo(a,h)anthracene	25.684	278	699662	47.928	ng	# 88
41) Benzo(g,h,i)perylene	26.336	276	724777	44.737	ng	98

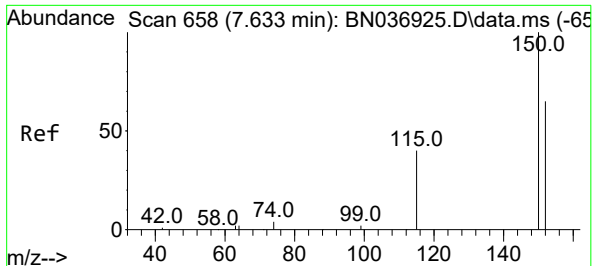
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036936.D
Acq On : 29 Apr 2025 13:05
Operator : RC/JU
Sample : Q1870-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925

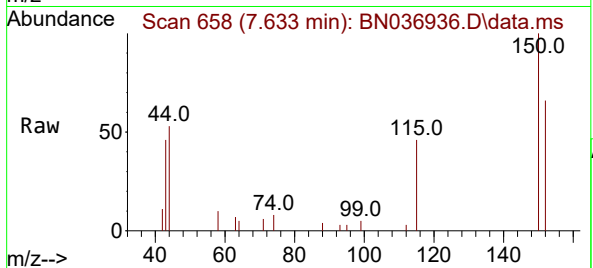
Quant Time: Apr 29 13:29:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



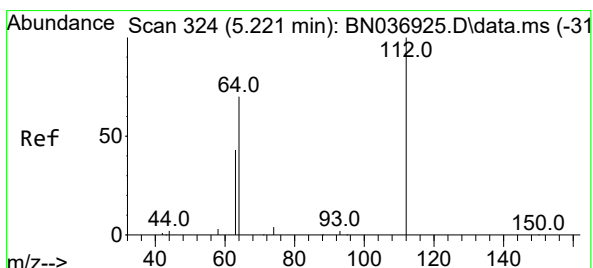
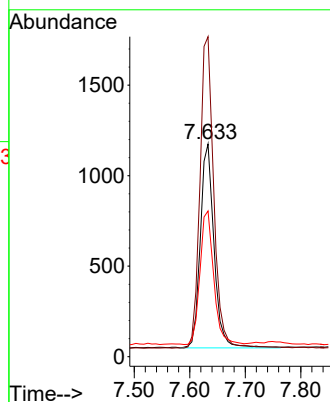
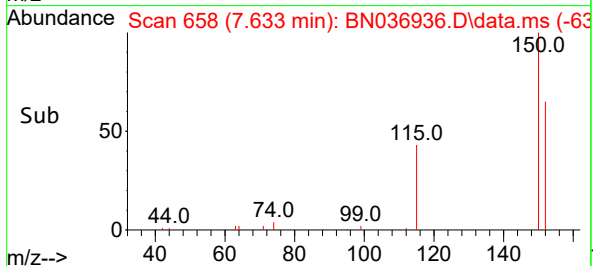


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

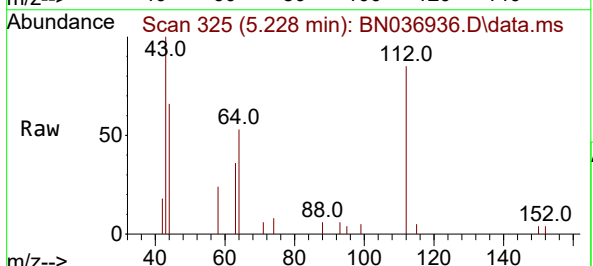
Instrument :
BNA_N
ClientSampleId :
38072-010925



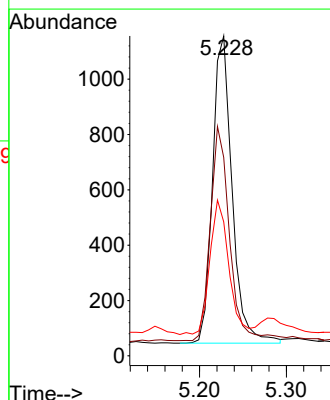
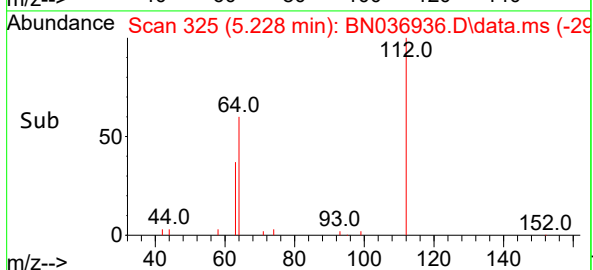
Tgt Ion:152 Resp: 1925
Ion Ratio Lower Upper
152 100
150 150.5 121.1 181.7
115 68.5 51.8 77.6

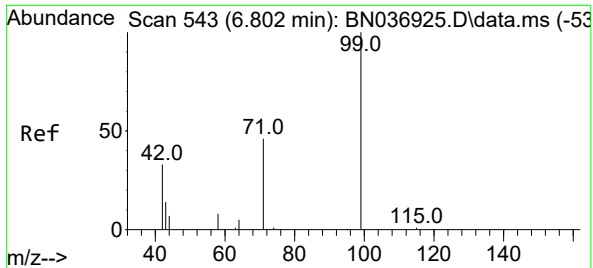


#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05



Tgt Ion:112 Resp: 1734
Ion Ratio Lower Upper
112 100
64 70.9 55.7 83.5
63 42.2 33.9 50.9

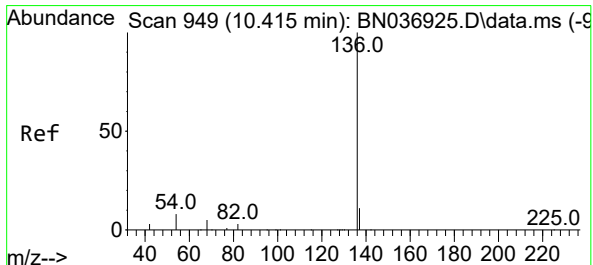
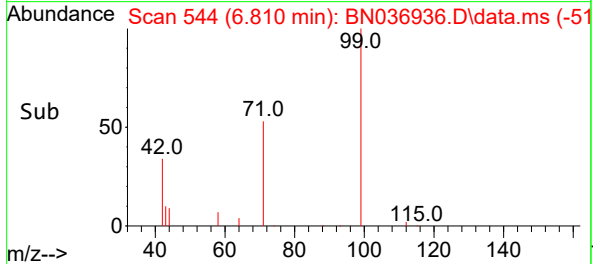
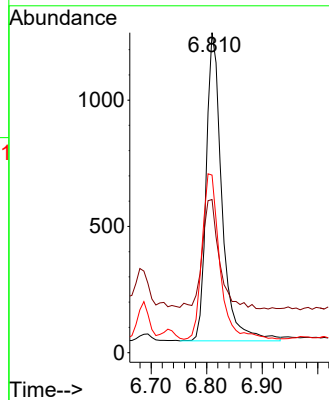
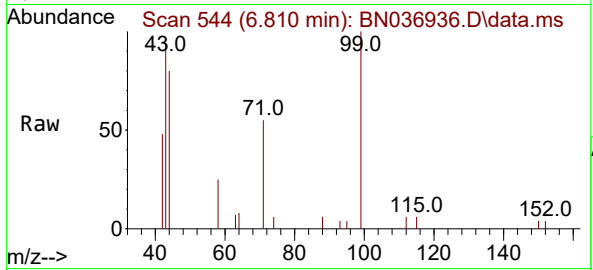




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.810 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

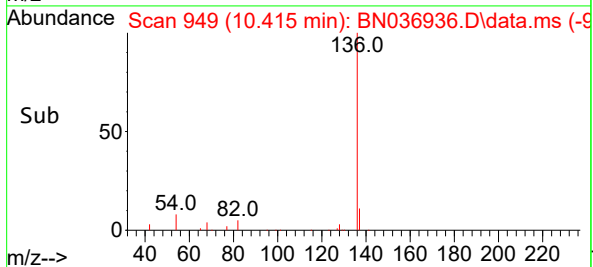
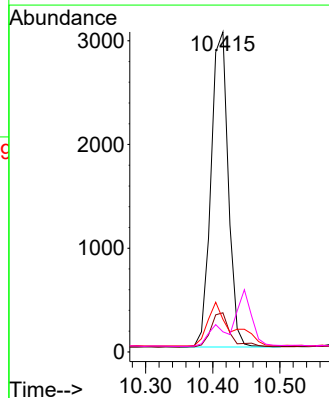
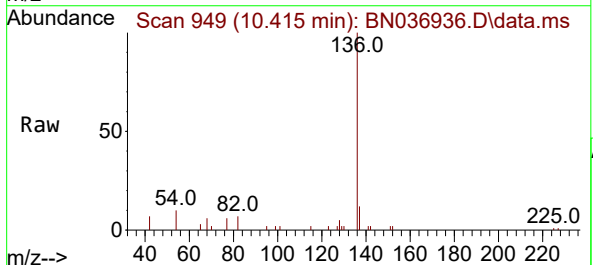
Instrument :
BNA_N
ClientSampleId :
38072-010925

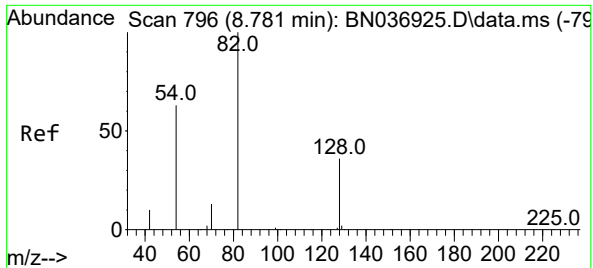
Tgt Ion:	99	Resp:	2400
Ion	Ratio	Lower	Upper
99	100		
42	38.9	29.6	44.4
71	61.0	36.0	54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:	136	Resp:	5445
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.2	8.0	12.0
68	6.3	5.1	7.7

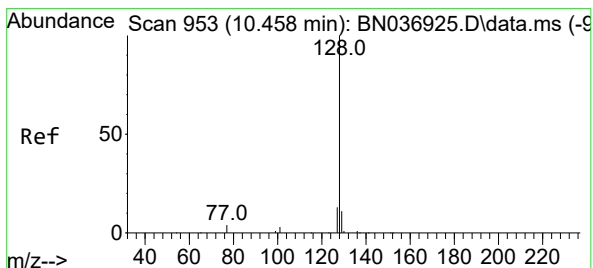
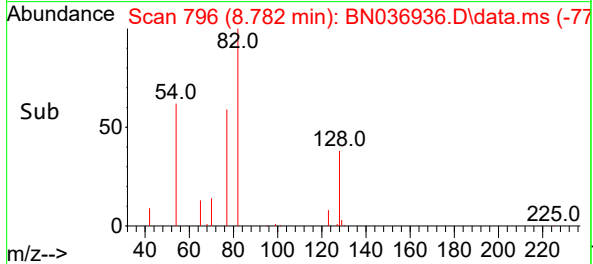
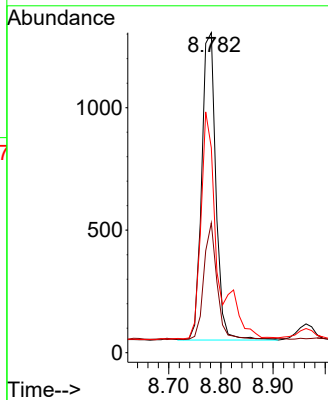
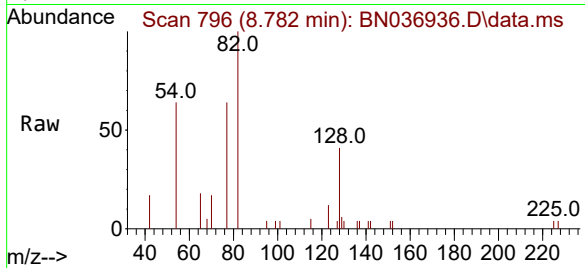




#8
Nitrobenzene-d5
Concen: 0.416 ng
RT: 8.782 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

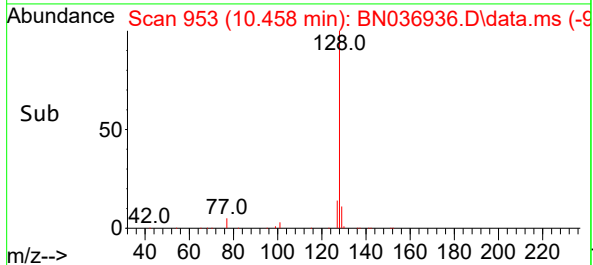
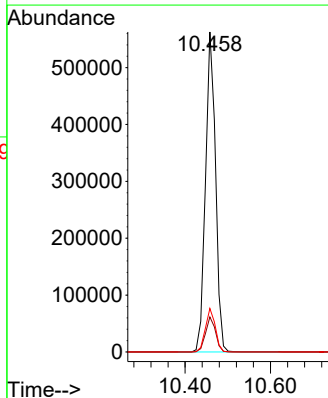
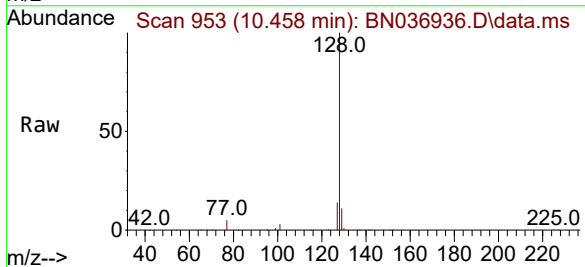
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ClientSampleId :
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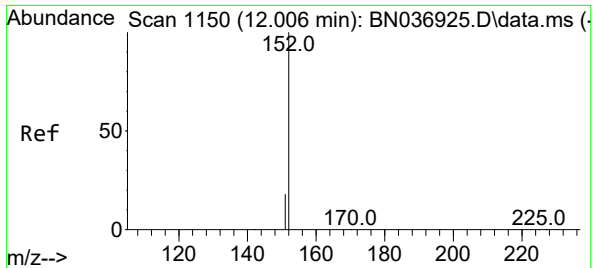
Tgt Ion: 82 Resp: 2370
Ion Ratio Lower Upper
82 100
128 40.6 30.7 46.1
54 64.0 52.1 78.1



#9
Naphthalene
Concen: 57.839 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion: 128 Resp: 916595
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.6 11.4 17.2

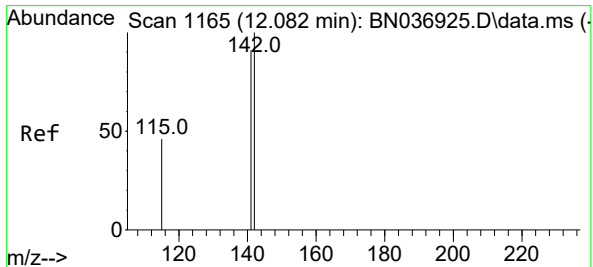
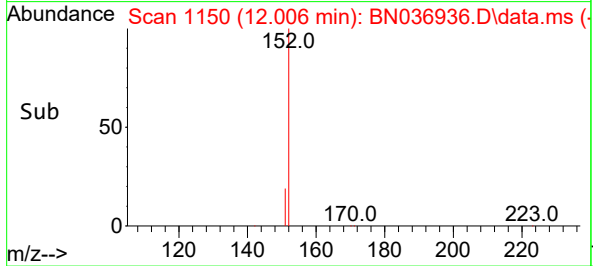
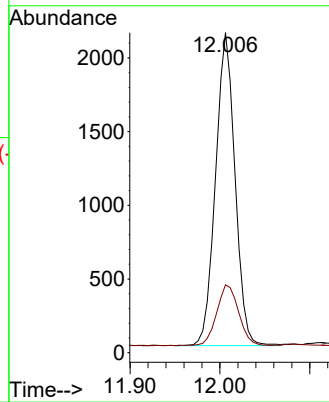
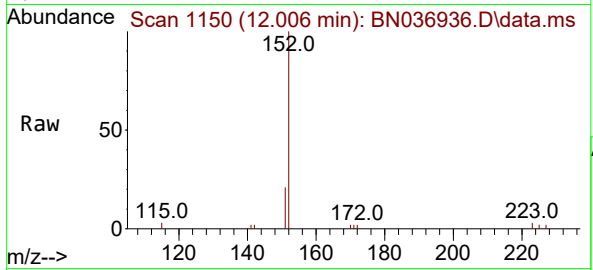




#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

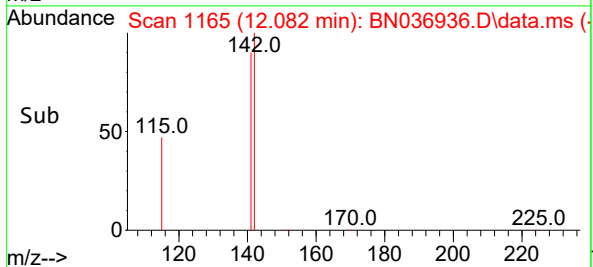
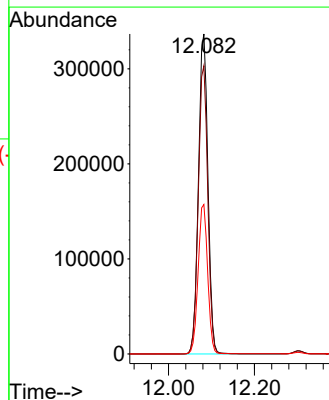
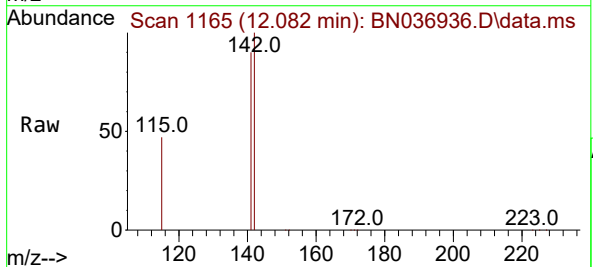
Instrument :
BNA_N
ClientSampleId :
38072-010925

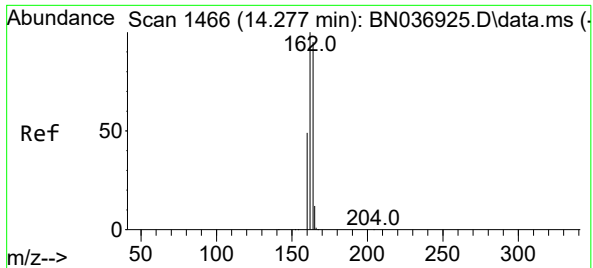
Tgt Ion:152 Resp: 3196
Ion Ratio Lower Upper
152 100
151 21.9 16.9 25.3



#12
2-Methylnaphthalene
Concen: 50.291 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:142 Resp: 515219
Ion Ratio Lower Upper
142 100
141 90.0 72.8 109.2
115 46.7 38.2 57.4

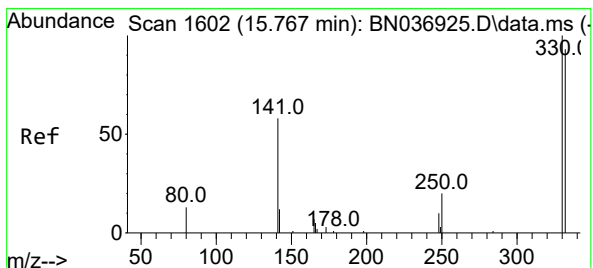
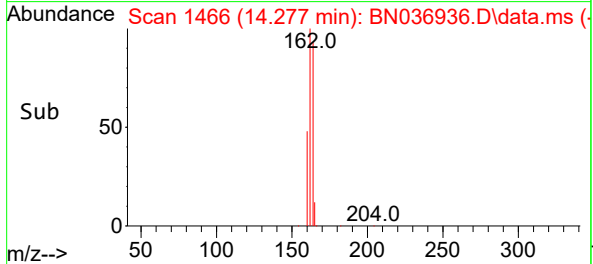
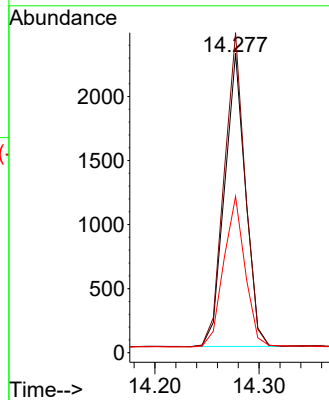
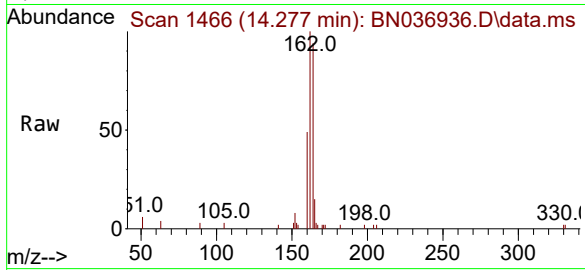




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

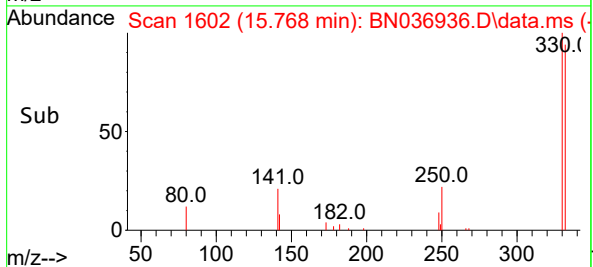
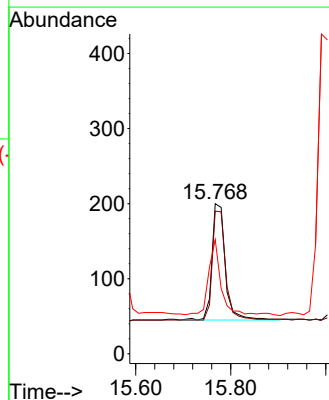
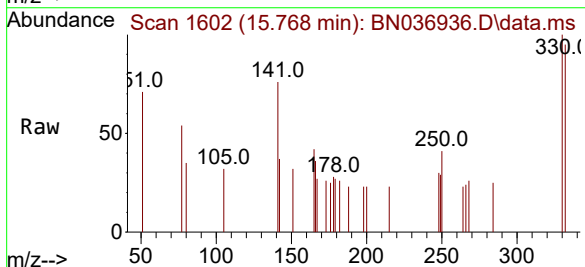
Instrument :
BNA_N
ClientSampleId :
38072-010925

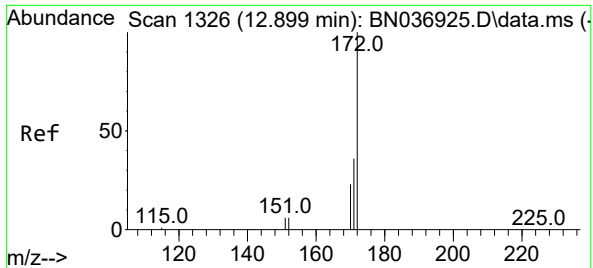
Tgt Ion:	164	Resp:	3190
Ion	Ratio	Lower	Upper
164	100		
162	106.8	83.8	125.8
160	52.1	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.213 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

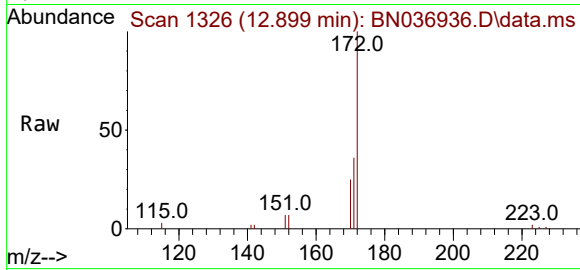
Tgt Ion:	330	Resp:	303
Ion	Ratio	Lower	Upper
330	100		
332	93.1	76.3	114.5
141	57.8	45.4	68.2



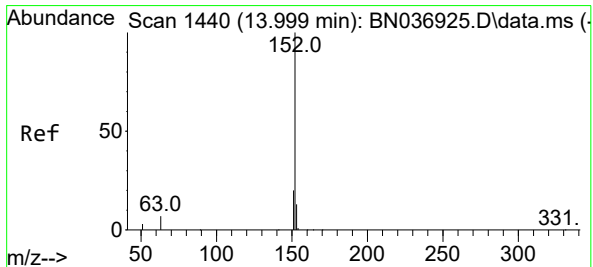
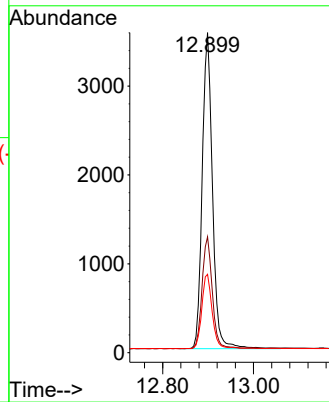
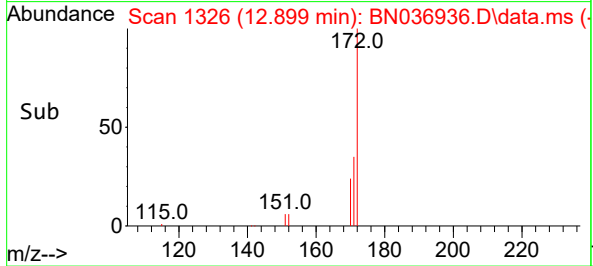


#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.899 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

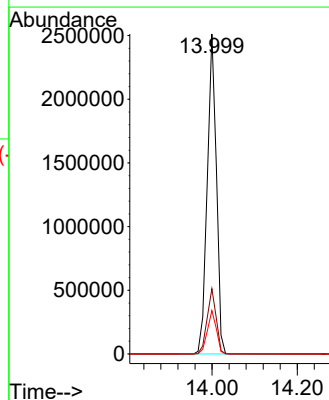
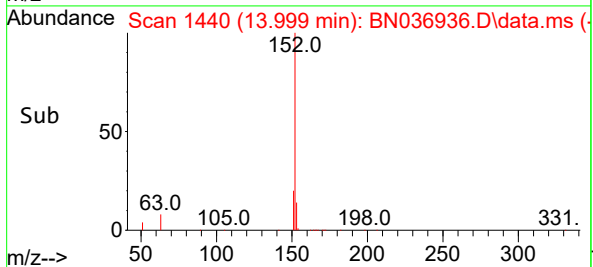
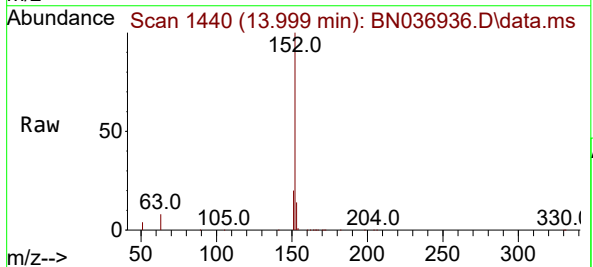


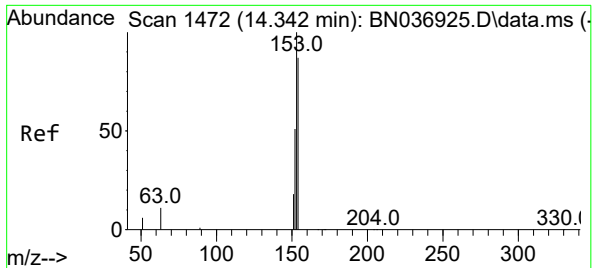
Tgt Ion:172 Resp: 6365
Ion Ratio Lower Upper
172 100
171 36.2 29.4 44.0
170 24.5 19.4 29.0



#16
Acenaphthylene
Concen: 238.798 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:152 Resp: 3723039
Ion Ratio Lower Upper
152 100
151 20.2 16.0 24.0
153 13.5 10.2 15.2

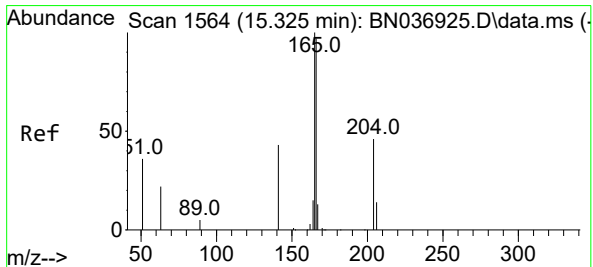
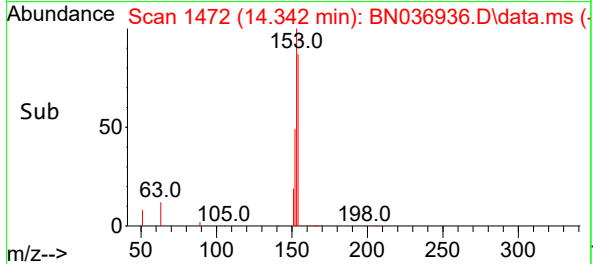
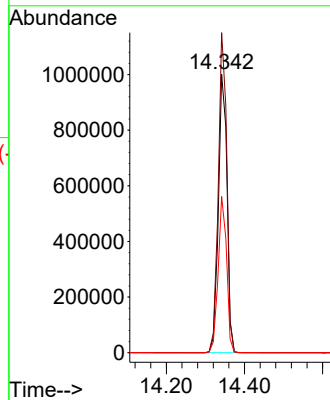
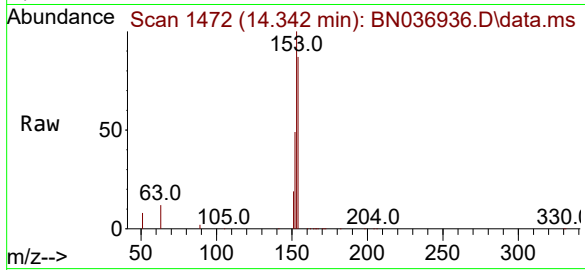




#17
Acenaphthene
Concen: 148.602 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

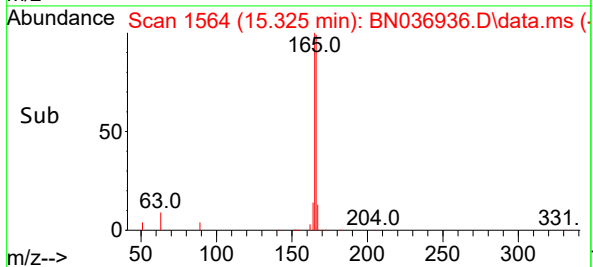
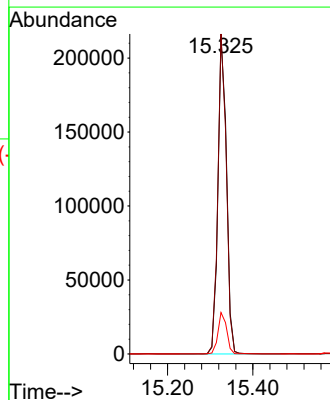
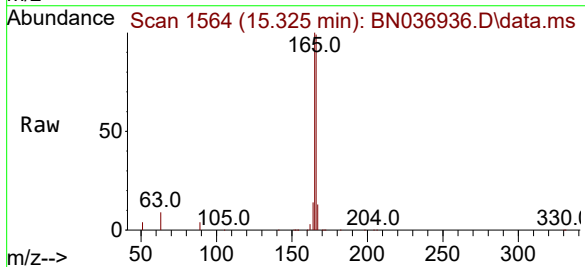
Instrument :
BNA_N
ClientSampleId :
38072-010925

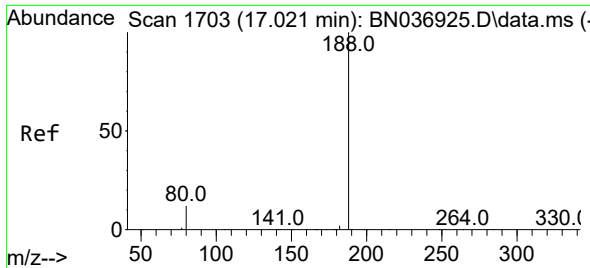
Tgt Ion:154 Resp: 1522189
Ion Ratio Lower Upper
154 100
153 113.7 93.4 140.2
152 55.1 49.5 74.3



#18
Fluorene
Concen: 22.381 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:166 Resp: 299838
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA_N

ClientSampleId :

38072-010925

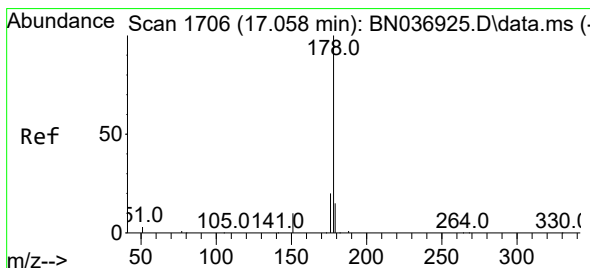
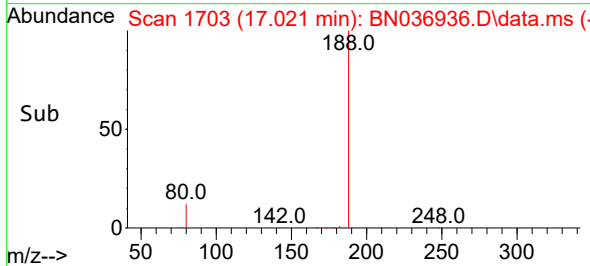
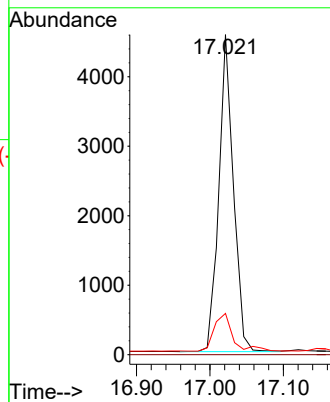
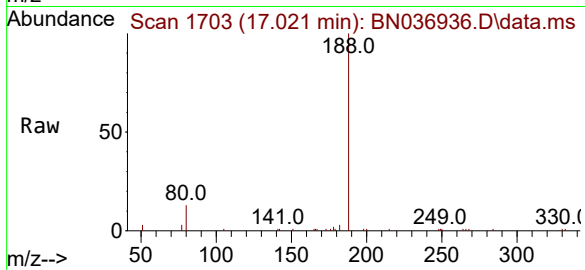
Tgt Ion:188 Resp: 6294

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 10.7 16.1



#25

Phenanthrene

Concen: 79.476 ng

RT: 17.071 min Scan# 1707

Delta R.T. 0.012 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

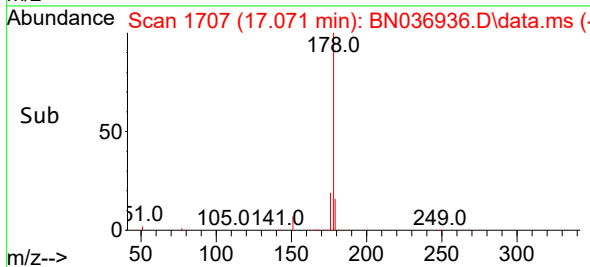
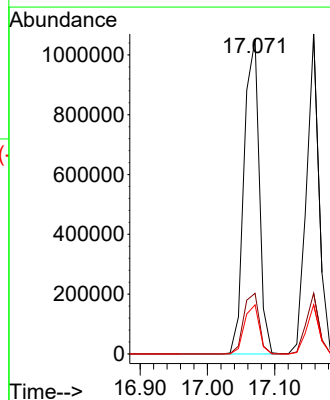
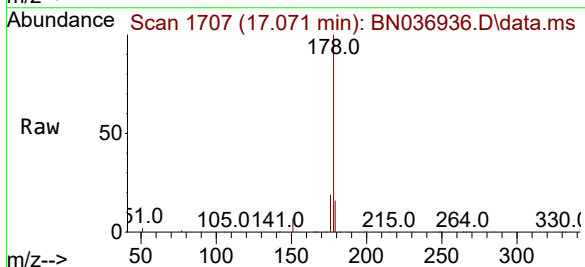
Tgt Ion:178 Resp: 1651033

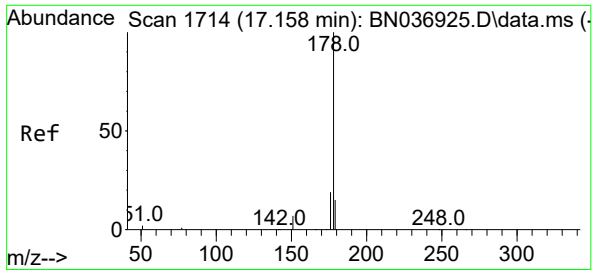
Ion Ratio Lower Upper

178 100

176 19.7 15.7 23.5

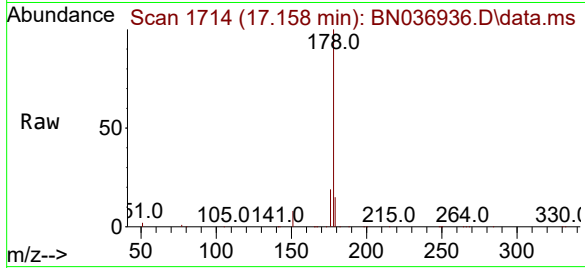
179 15.4 12.4 18.6



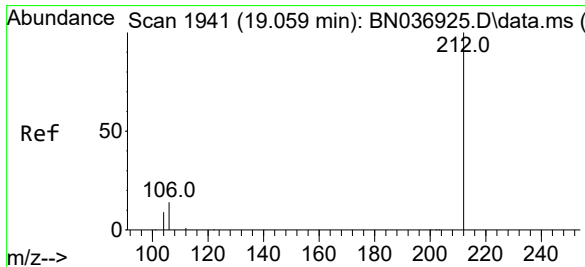
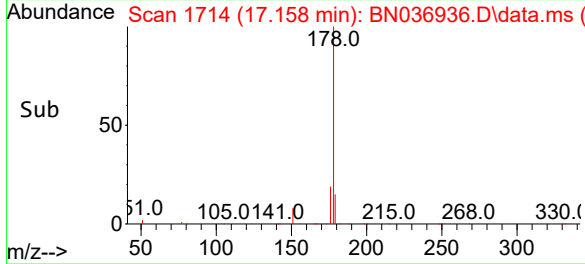
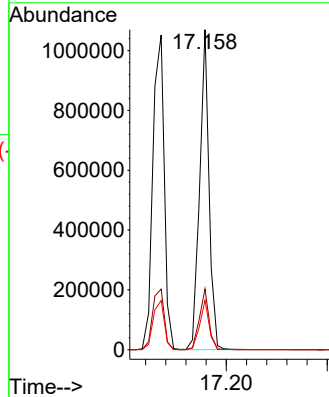


#26
Anthracene
Concen: 73.661 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

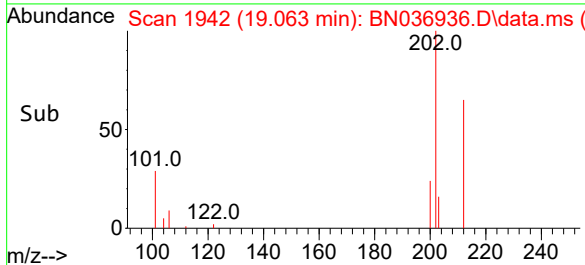
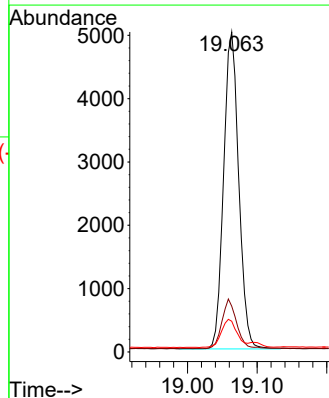
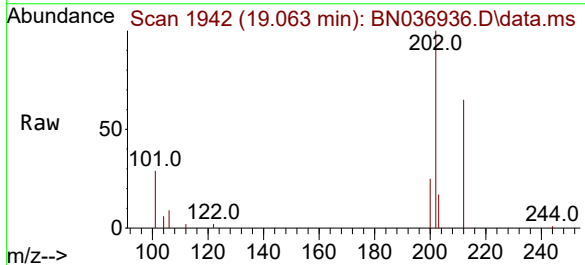


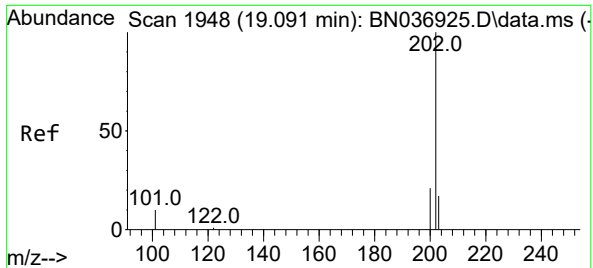
Tgt Ion:178 Resp: 1384185
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.3 12.1 18.1



#27
Fluoranthene-d10
Concen: 0.462 ng
RT: 19.063 min Scan# 1942
Delta R.T. 0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:212 Resp: 7536
Ion Ratio Lower Upper
212 100
106 15.2 11.6 17.4
104 9.2 7.0 10.4

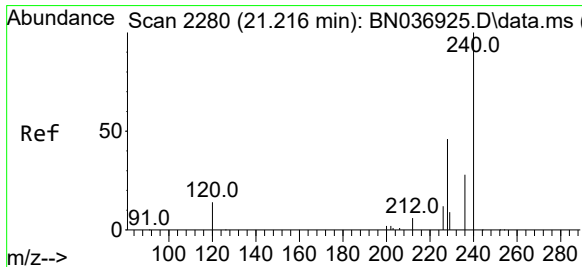
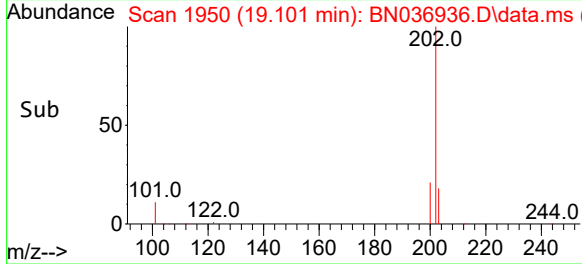
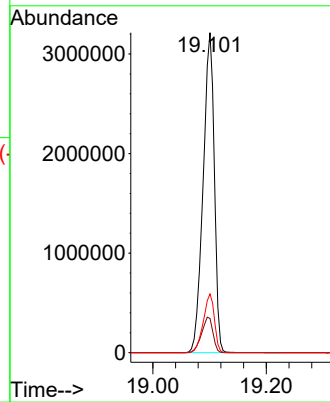
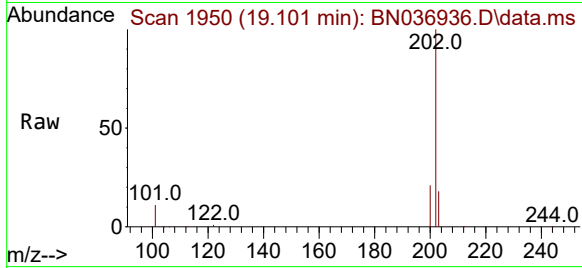




#28
Fluoranthene
Concen: 188.748 ng
RT: 19.101 min Scan# 1948
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

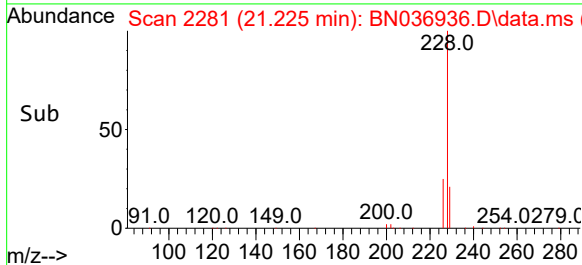
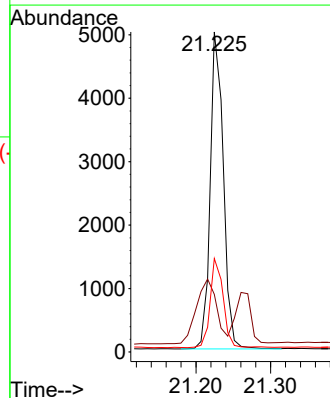
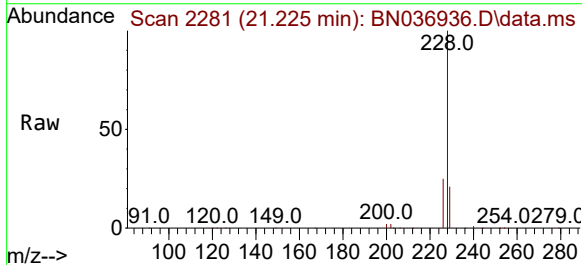
Instrument :
BNA_N
ClientSampleId :
38072-010925

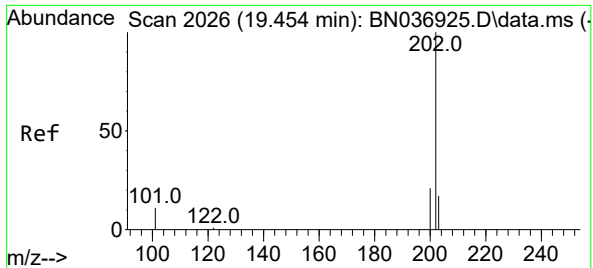
Tgt Ion:202 Resp: 4394407
Ion Ratio Lower Upper
202 100
101 11.3 8.5 12.7
203 18.2 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.225 min Scan# 2281
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:240 Resp: 6093
Ion Ratio Lower Upper
240 100
120 18.0 14.1 21.1
236 29.2 23.8 35.8

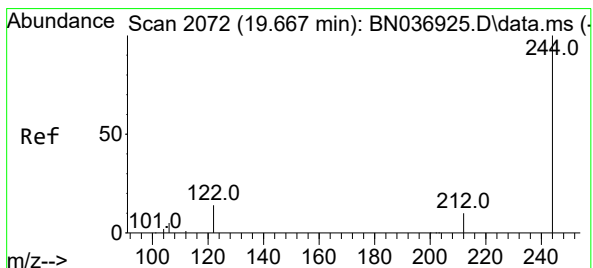
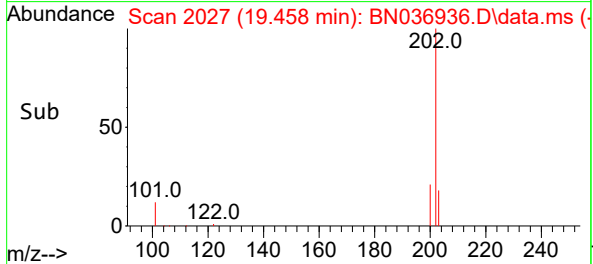
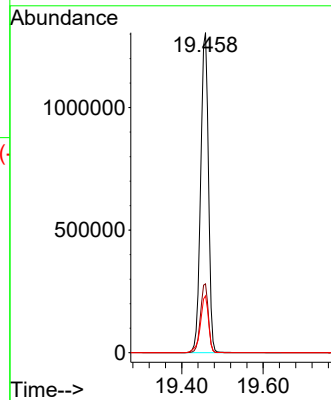
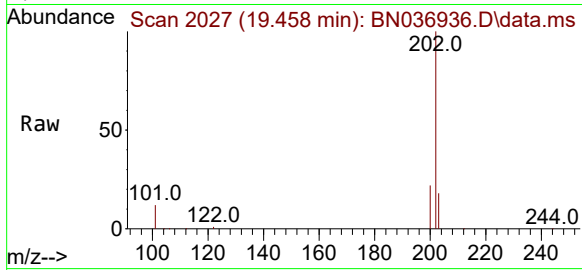




#30
Pyrene
Concen: 58.420 ng
RT: 19.458 min Scan# 2026
Delta R.T. 0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

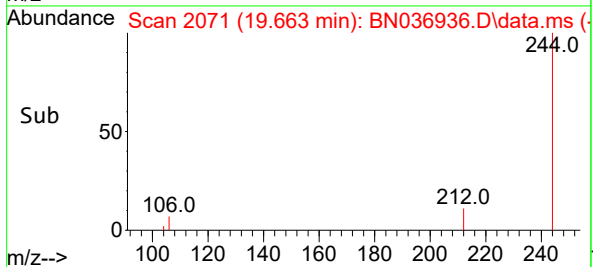
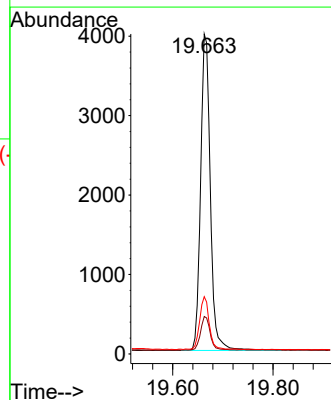
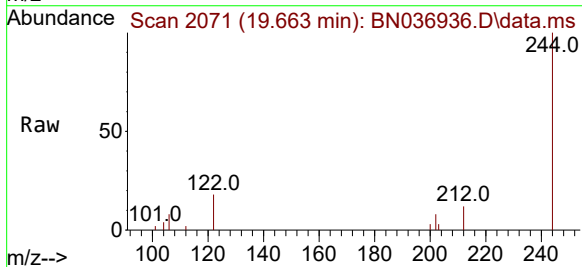
Instrument :
BNA_N
ClientSampleId :
38072-010925

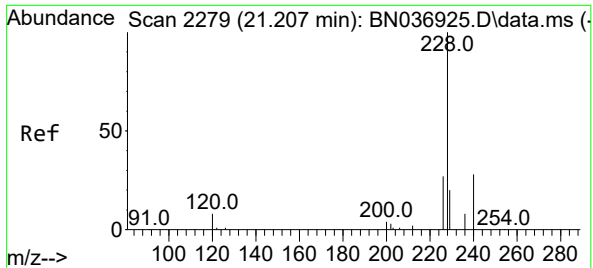
Tgt Ion:202 Resp: 1714365
Ion Ratio Lower Upper
202 100
200 21.7 17.0 25.6
203 18.6 14.0 21.0



#31
Terphenyl-d14
Concen: 0.371 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:244 Resp: 5329
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 17.9 12.7 19.1

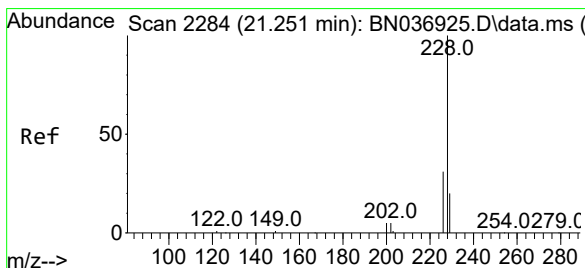
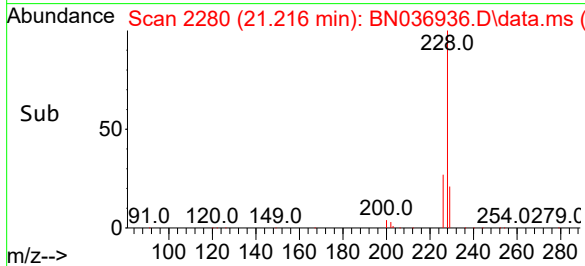
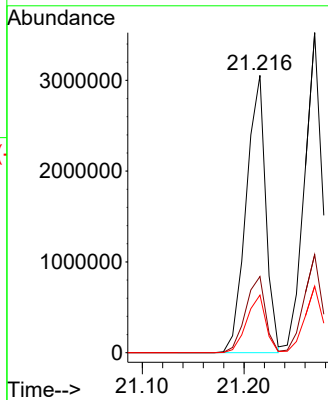
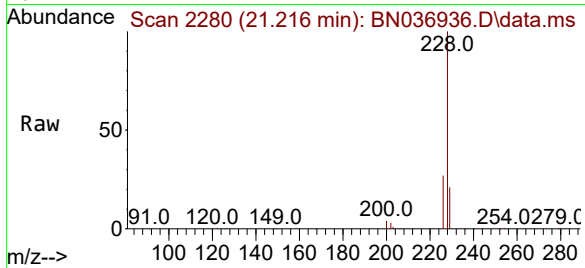




#32
Benzo(a)anthracene
Concen: 181.199 ng
RT: 21.216 min Scan# 2128
Delta R.T. 0.009 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

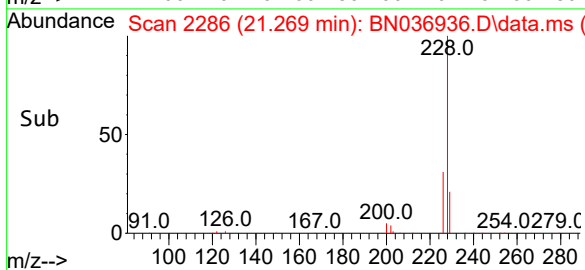
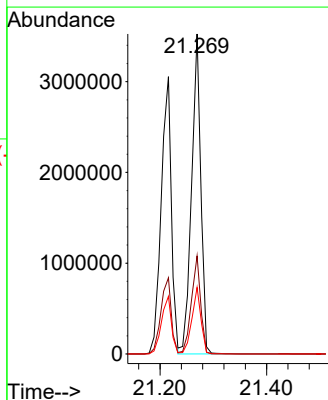
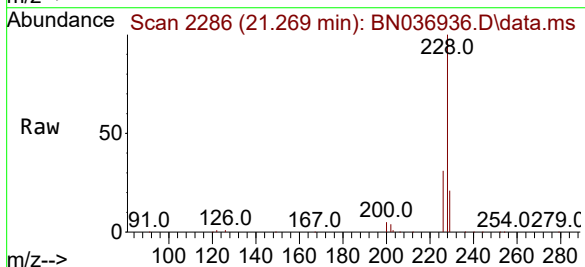
Instrument :
BNA_N
ClientSampleId :
38072-010925

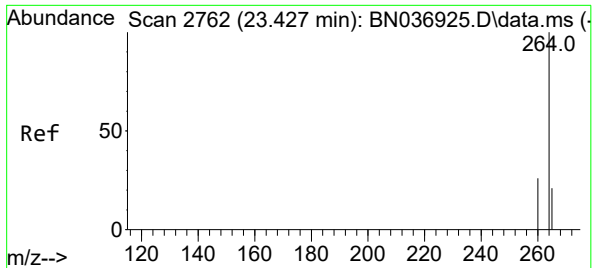
Tgt Ion:228 Resp: 4066087
Ion Ratio Lower Upper
228 100
226 27.5 22.2 33.4
229 20.8 16.4 24.6



#33
Chrysene
Concen: 176.238 ng
RT: 21.269 min Scan# 2286
Delta R.T. 0.018 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

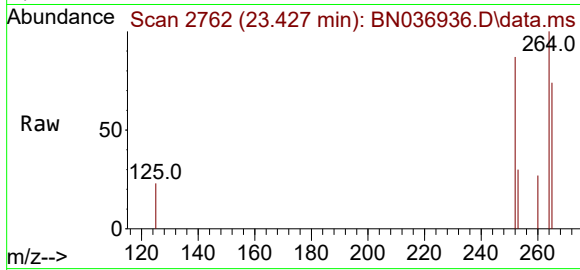
Tgt Ion:228 Resp: 4265016
Ion Ratio Lower Upper
228 100
226 30.7 25.5 38.3
229 20.8 16.5 24.7



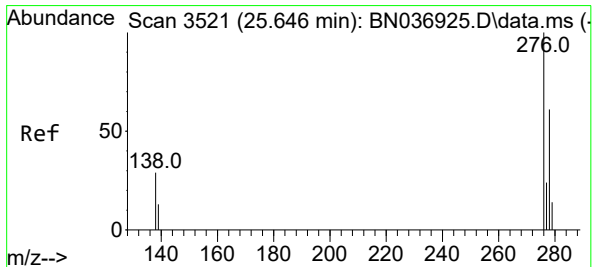
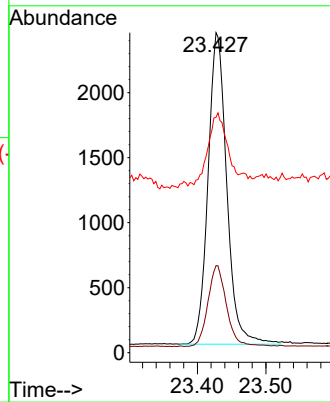
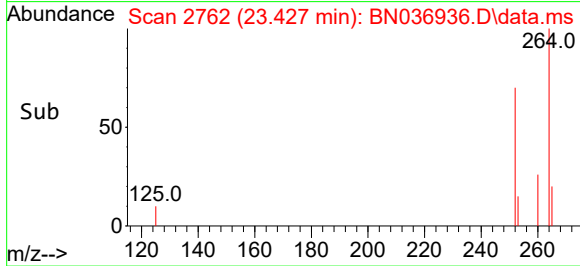


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

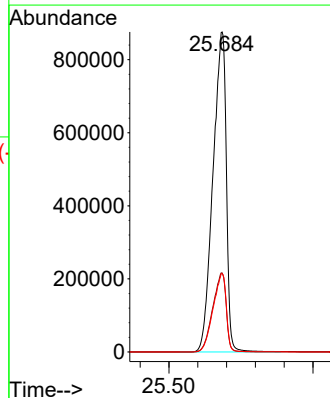
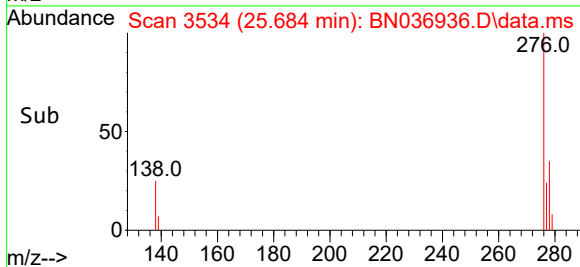
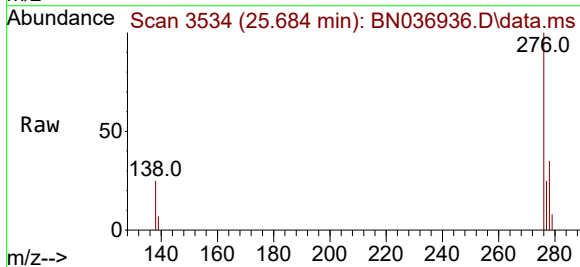


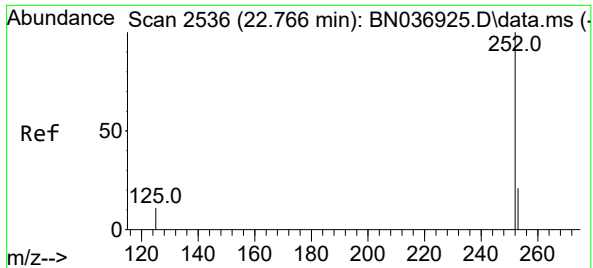
Tgt Ion:264 Resp: 4542
Ion Ratio Lower Upper
264 100
260 27.2 22.2 33.2
265 73.5 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 151.786 ng
RT: 25.684 min Scan# 3534
Delta R.T. 0.038 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

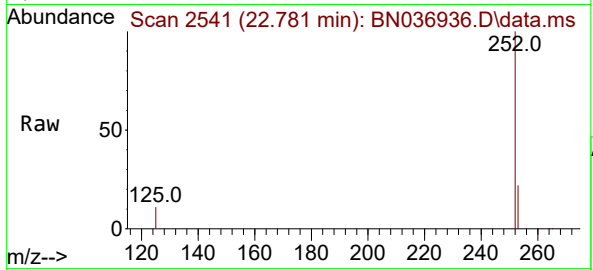
Tgt Ion:276 Resp: 2815525
Ion Ratio Lower Upper
276 100
138 24.9 23.0 34.6
277 24.3 20.0 30.0



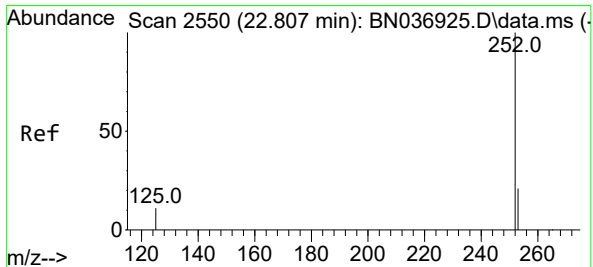
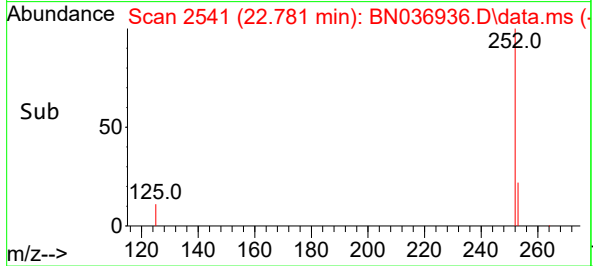
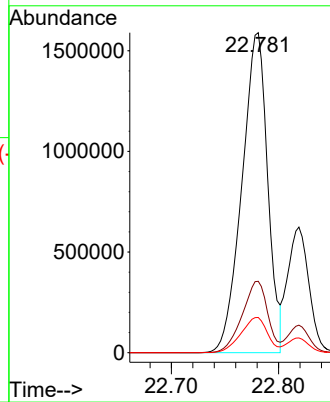


#37
Benzo(b)fluoranthene
Concen: 138.833 ng
RT: 22.781 min Scan# 2541
Delta R.T. 0.015 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Instrument :
BNA_N
ClientSampleId :
38072-010925

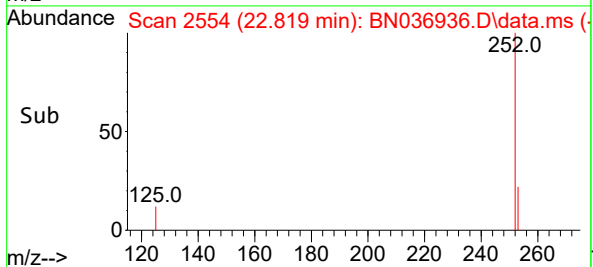
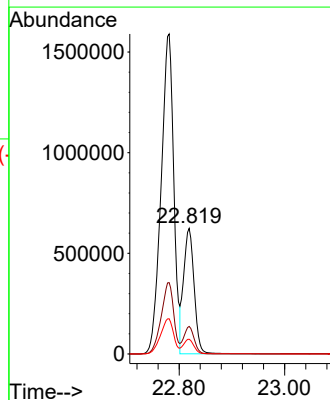
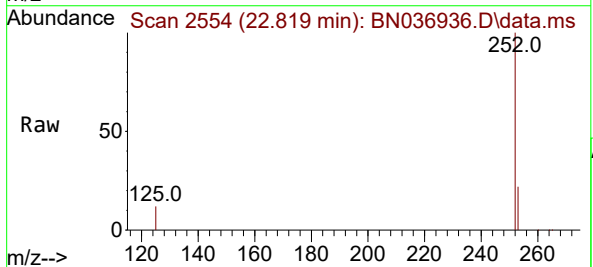


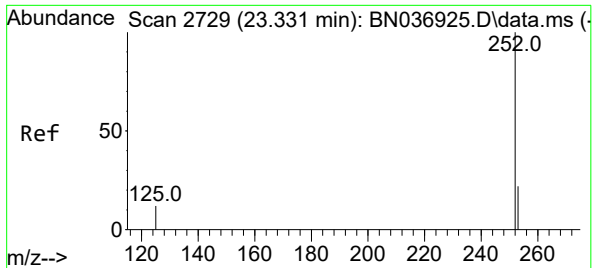
Tgt Ion:252 Resp: 2651471
Ion Ratio Lower Upper
252 100
253 22.3 22.1 33.1
125 11.0 14.2 21.2#



#38
Benzo(k)fluoranthene
Concen: 45.004 ng
RT: 22.819 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BN036936.D
Acq: 29 Apr 2025 13:05

Tgt Ion:252 Resp: 864365
Ion Ratio Lower Upper
252 100
253 21.9 22.8 34.2#
125 11.7 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 89.656 ng

RT: 23.339 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

Instrument :

BNA_N

ClientSampleId :

38072-010925

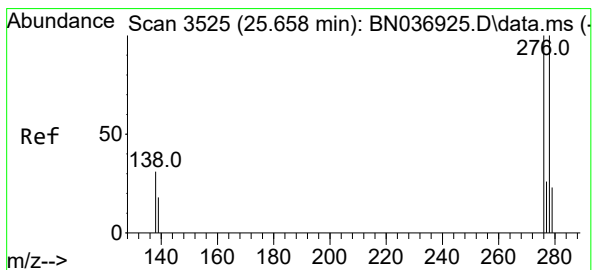
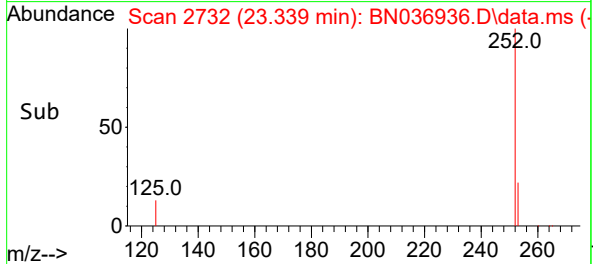
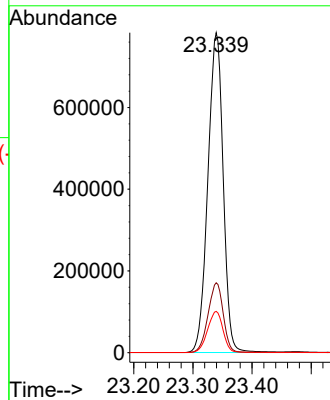
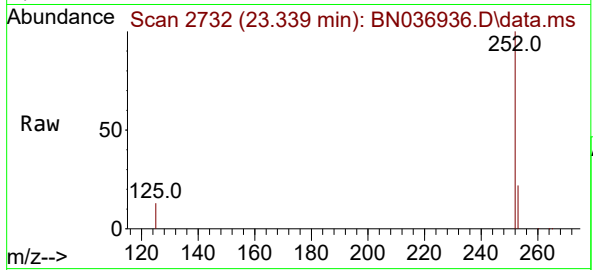
Tgt Ion:252 Resp: 1407542

Ion Ratio Lower Upper

252 100

253 21.9 25.9 38.9#

125 12.9 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 47.928 ng

RT: 25.684 min Scan# 3534

Delta R.T. 0.026 min

Lab File: BN036936.D

Acq: 29 Apr 2025 13:05

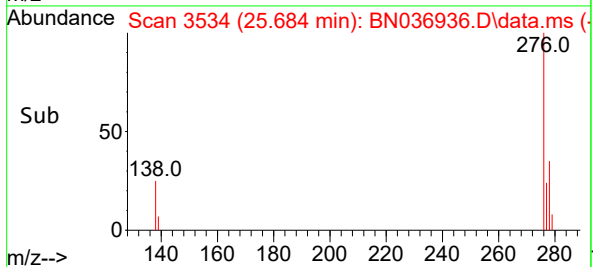
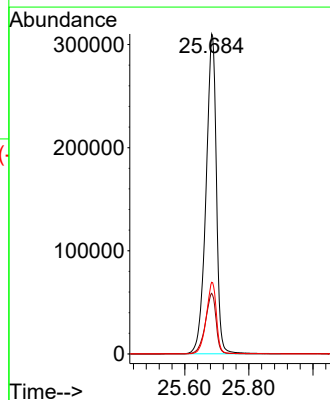
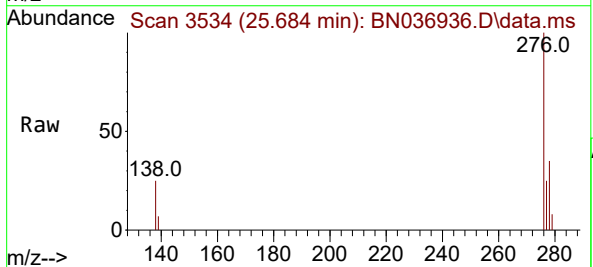
Tgt Ion:278 Resp: 699662

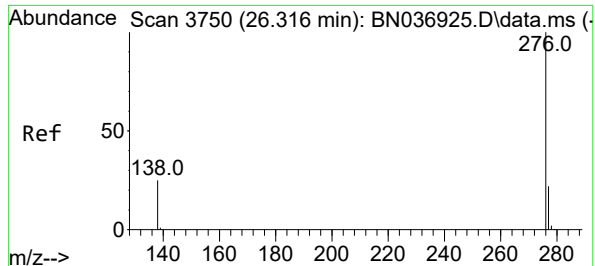
Ion Ratio Lower Upper

278 100

139 19.0 17.4 26.2

279 22.4 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 44.737 ng

RT: 26.336 min Scan# 31

Delta R.T. 0.020 min

Lab File: BN036936.D

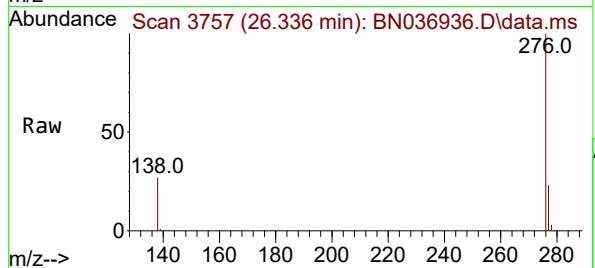
Acq: 29 Apr 2025 13:05

Instrument :

BNA_N

ClientSampleId :

38072-010925



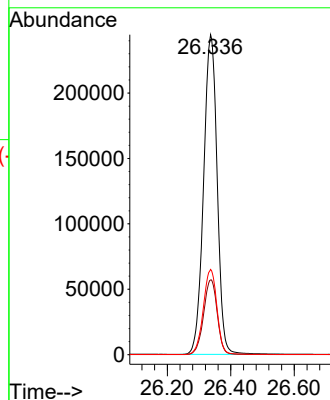
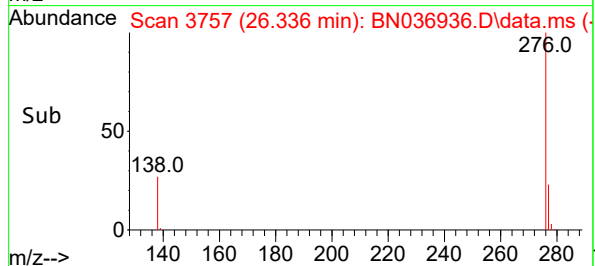
Tgt Ion:276 Resp: 724777

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.2

138 26.7 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
 Data File : BN036937.D
 Acq On : 29 Apr 2025 13:41
 Operator : RC/JU
 Sample : Q1870-01DL 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-010925DL

Quant Time: Apr 29 14:14:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

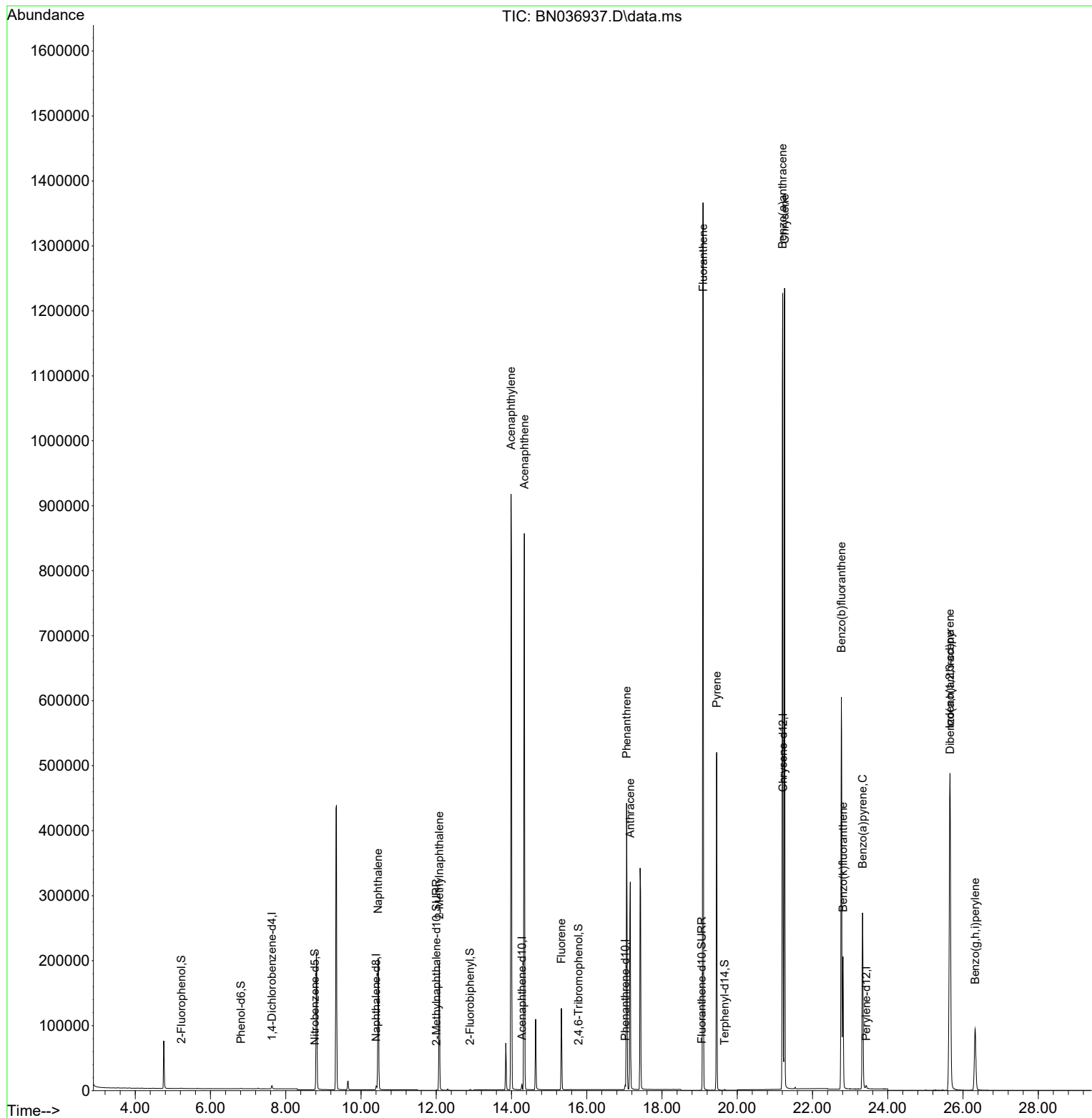
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2660	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	7273	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	4170	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7996	0.400	ng	0.00
29) Chrysene-d12	21.216	240	7787	0.400	ng	0.00
35) Perylene-d12	23.427	264	5957	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	484	0.071	ng	0.00
5) Phenol-d6	6.809	99	596	0.071	ng	0.00
8) Nitrobenzene-d5	8.771	82	638	0.084	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	840	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	80	0.043	ng	0.01
15) 2-Fluorobiphenyl	12.899	172	1634	0.081	ng	0.00
27) Fluoranthene-d10	19.059	212	1819	0.088	ng	0.00
31) Terphenyl-d14	19.667	244	1294	0.070	ng	0.00
Target Compounds						
9) Naphthalene	10.458	128	245146	11.581	ng	97
12) 2-Methylnaphthalene	12.082	142	135057	9.870	ng	97
16) Acenaphthylene	13.989	152	983461	48.255	ng	99
17) Acenaphthene	14.342	154	392189	29.289	ng	97
18) Fluorene	15.325	166	71886	4.105	ng	99
25) Phenanthrene	17.058	178	419564	15.898	ng	100
26) Anthracene	17.158	178	344832	14.445	ng	100
28) Fluoranthene	19.091	202	1164278	39.363	ng	99
30) Pyrene	19.454	202	435369	11.609	ng	99
32) Benzo(a)anthracene	21.207	228	1030872	35.945	ng	99
33) Chrysene	21.260	228	1043139	33.727	ng	97
36) Indeno(1,2,3-cd)pyrene	25.652	276	739011	30.377	ng	97
37) Benzo(b)fluoranthene	22.766	252	710014	28.346	ng	# 88
38) Benzo(k)fluoranthene	22.810	252	229443	9.109	ng	# 87
39) Benzo(a)pyrene	23.331	252	364004	17.678	ng	# 81
40) Dibenzo(a,h)anthracene	25.661	278	178329	9.314	ng	# 90
41) Benzo(g,h,i)perylene	26.322	276	179719	8.458	ng	98

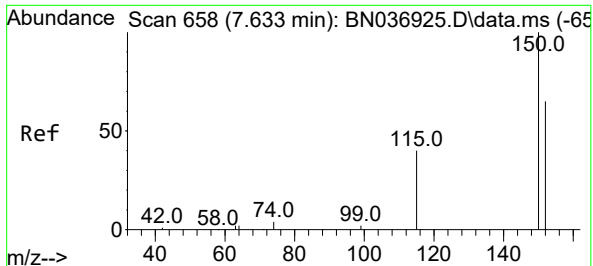
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036937.D
Acq On : 29 Apr 2025 13:41
Operator : RC/JU
Sample : Q1870-01DL 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

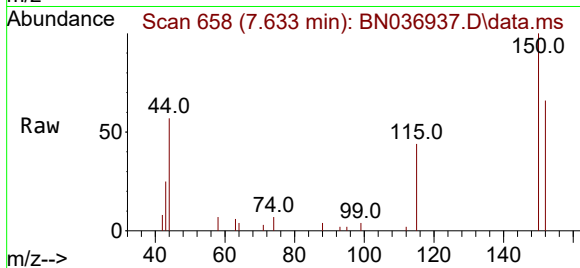
Quant Time: Apr 29 14:14:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



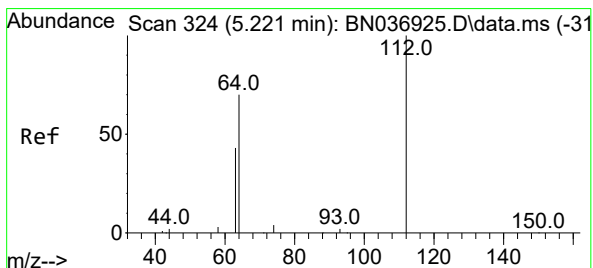
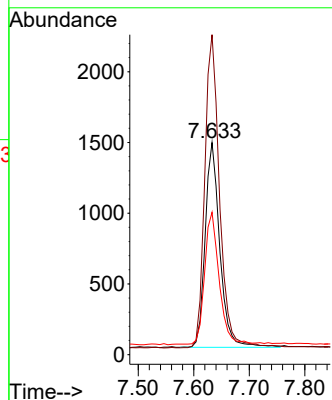
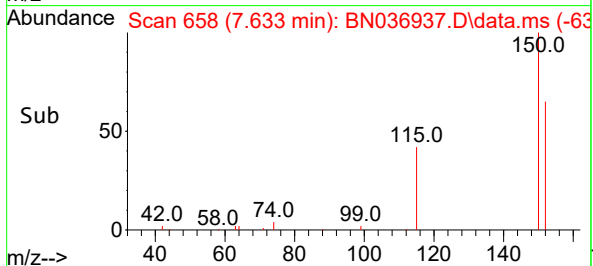


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

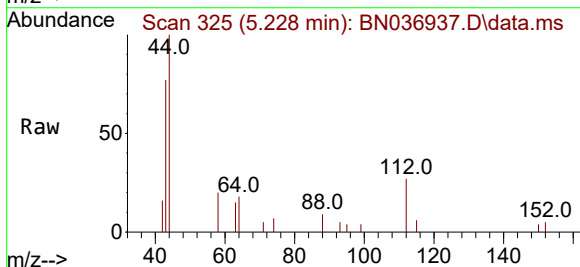
Instrument :
BNA_N
ClientSampleId :
38072-010925DL



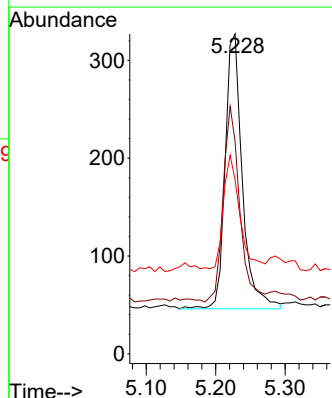
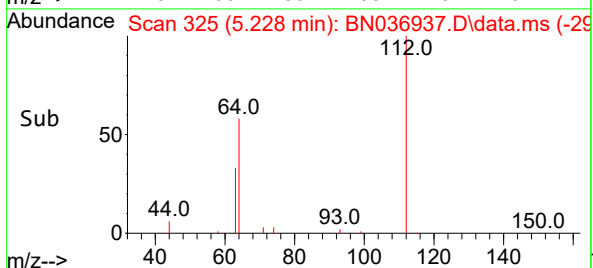
Tgt Ion:152 Resp: 2660
Ion Ratio Lower Upper
152 100
150 150.8 121.1 181.7
115 67.1 51.8 77.6

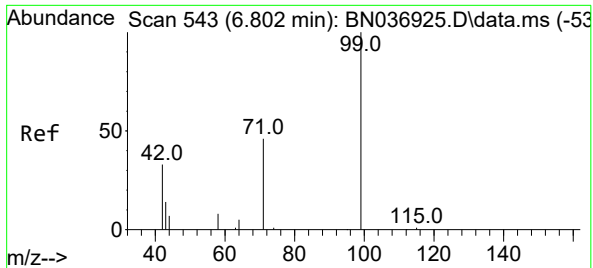


#4
2-Fluorophenol
Concen: 0.071 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41



Tgt Ion:112 Resp: 484
Ion Ratio Lower Upper
112 100
64 68.4 55.7 83.5
63 42.4 33.9 50.9

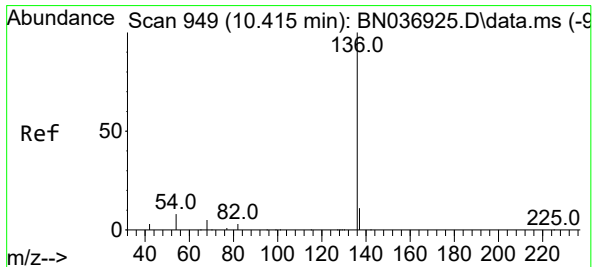
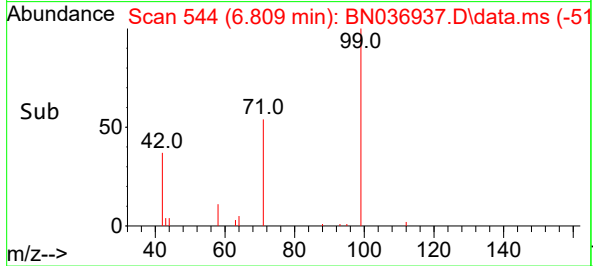
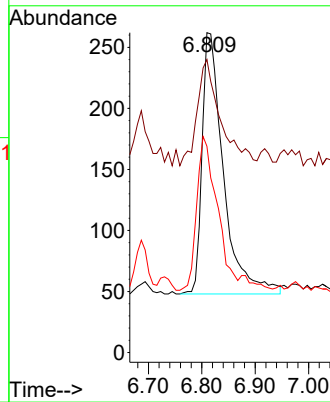
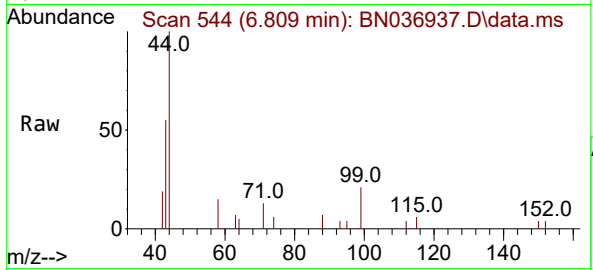




#5
Phenol-d6
Concen: 0.071 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

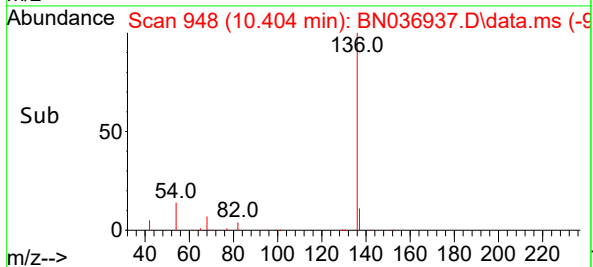
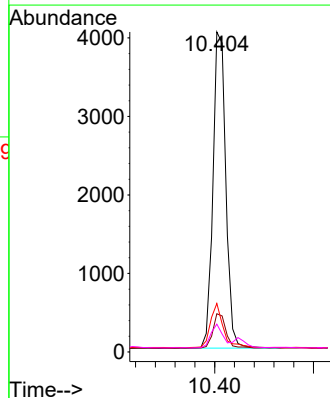
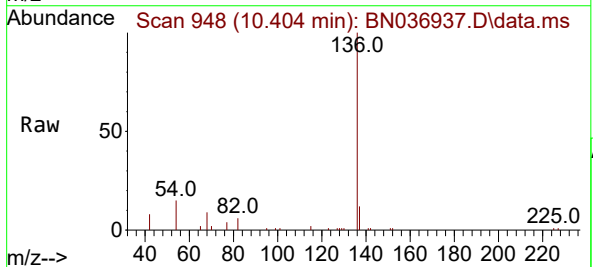
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

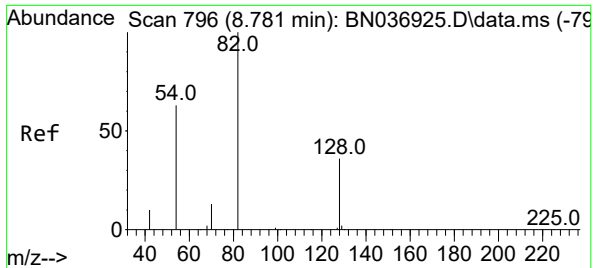
Tgt Ion: 99 Resp: 596
Ion Ratio Lower Upper
99 100
42 44.6 29.6 44.4#
71 56.0 36.0 54.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion: 136 Resp: 7273
Ion Ratio Lower Upper
136 100
137 11.9 9.7 14.5
54 15.1 8.0 12.0#
68 8.7 5.1 7.7#

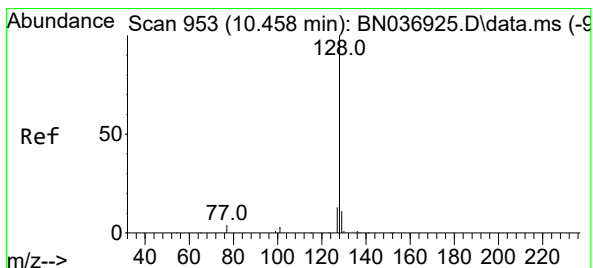
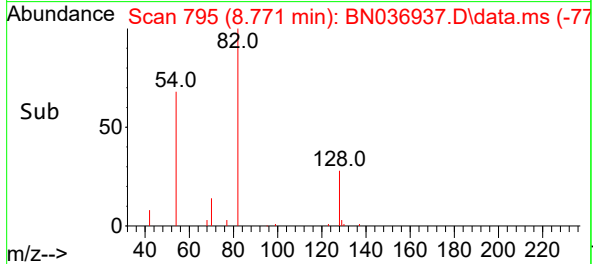
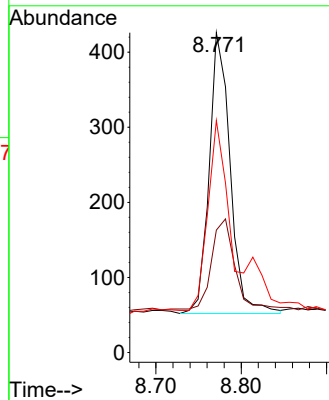
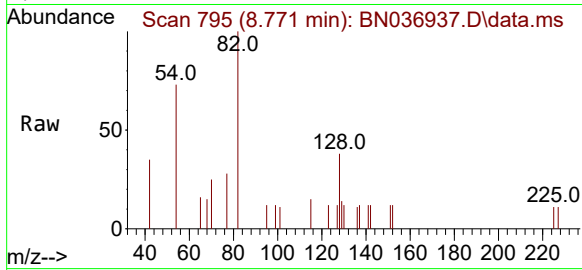




#8
Nitrobenzene-d5
Concen: 0.084 ng
RT: 8.771 min Scan# 796
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

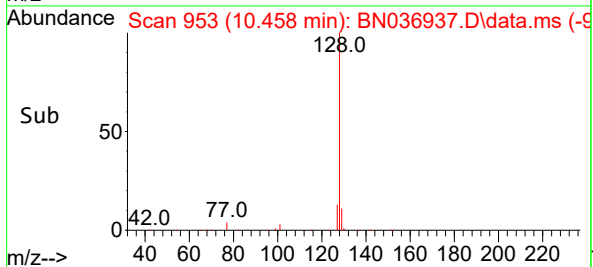
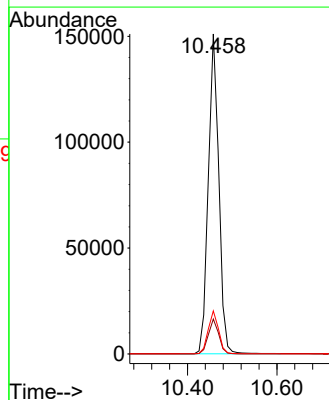
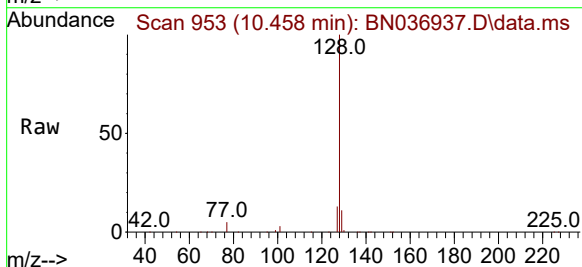
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

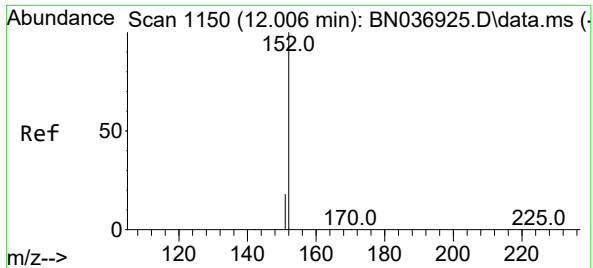
Tgt Ion: 82 Resp: 638
Ion Ratio Lower Upper
82 100
128 38.3 30.7 46.1
54 72.5 52.1 78.1



#9
Naphthalene
Concen: 11.581 ng
RT: 10.458 min Scan# 953
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion: 128 Resp: 245146
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.5 11.4 17.2

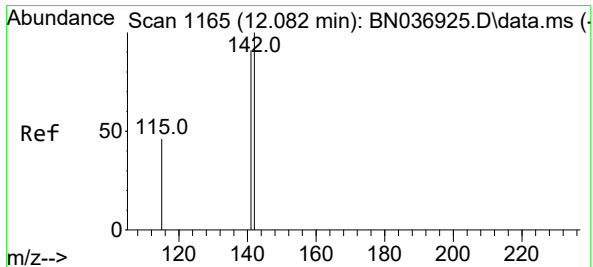
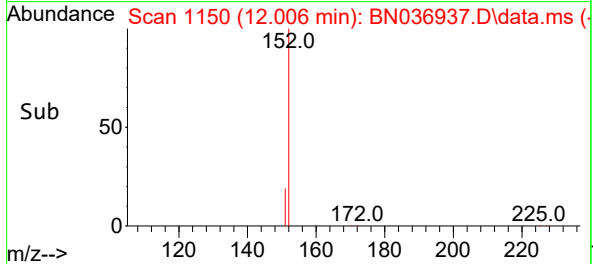
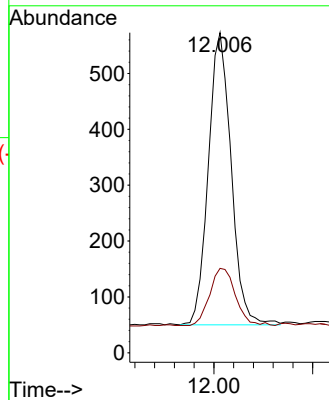
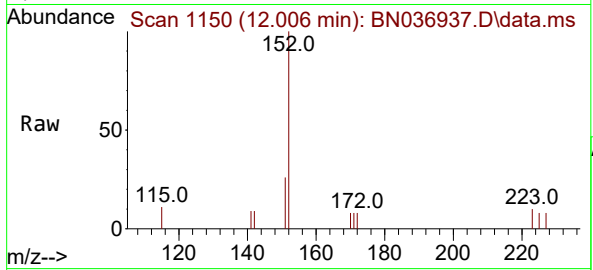




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

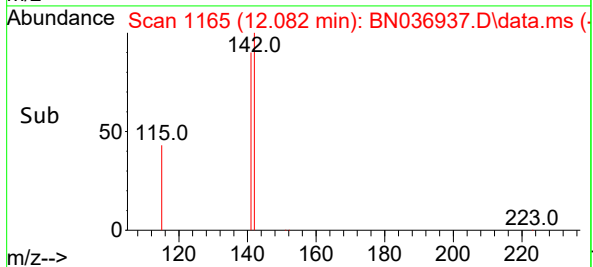
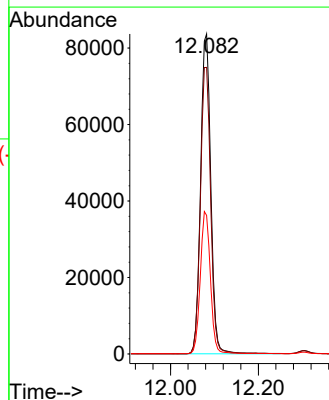
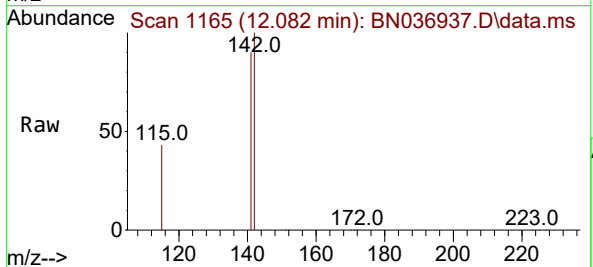
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

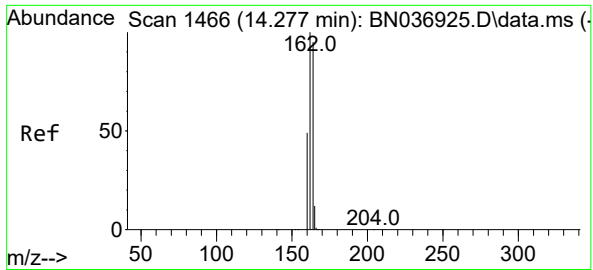
Tgt Ion:152 Resp: 840
Ion Ratio Lower Upper
152 100
151 21.9 16.9 25.3



#12
2-Methylnaphthalene
Concen: 9.870 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:142 Resp: 135057
Ion Ratio Lower Upper
142 100
141 89.5 72.8 109.2
115 43.3 38.2 57.4

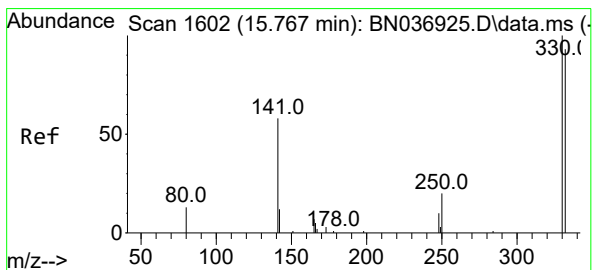
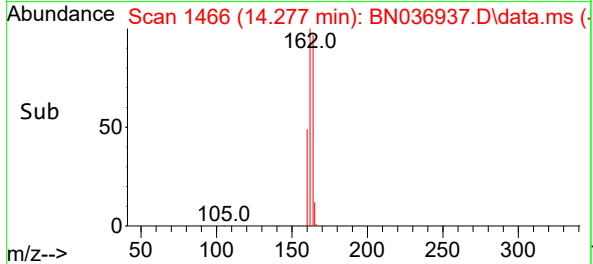
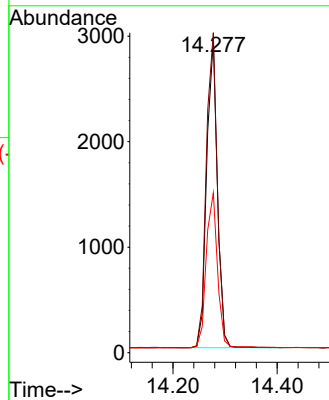
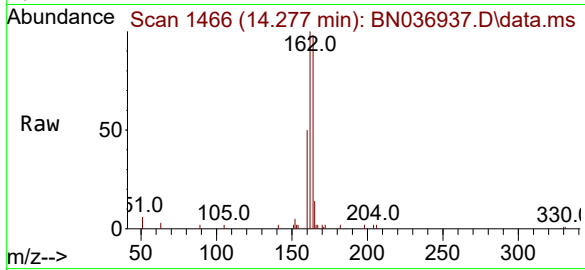




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

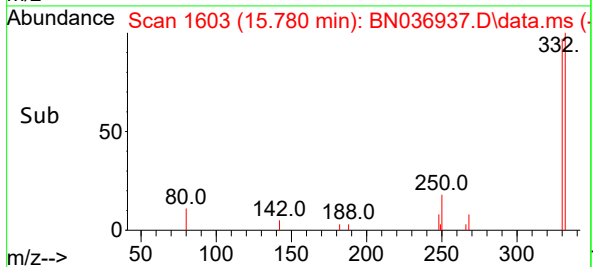
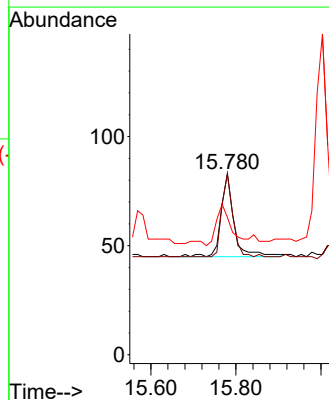
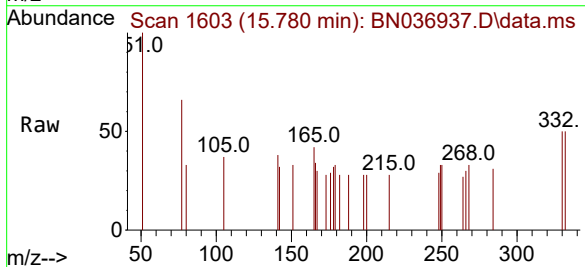
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

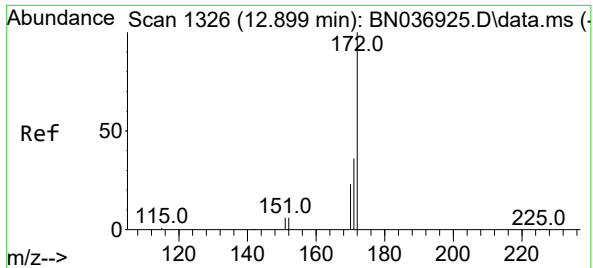
Tgt Ion:	164	Resp:	4170
Ion	Ratio	Lower	Upper
164	100		
162	102.5	83.8	125.8
160	51.2	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.043 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

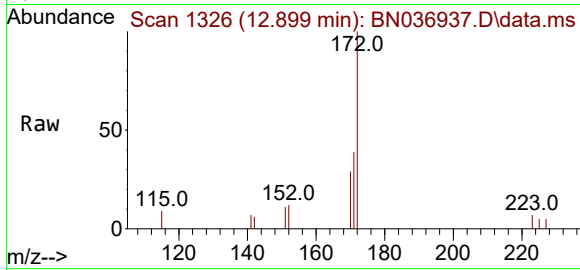
Tgt Ion:	330	Resp:	80
Ion	Ratio	Lower	Upper
330	100		
332	86.3	76.3	114.5
141	55.0	45.4	68.2



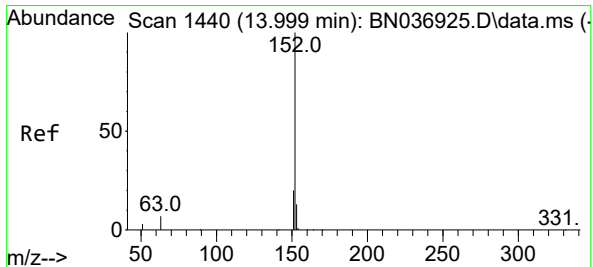
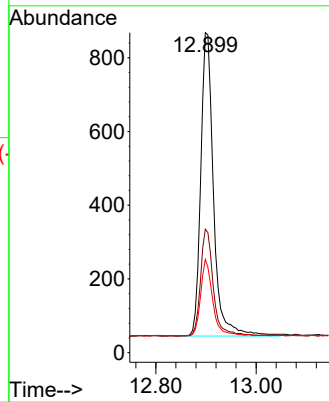
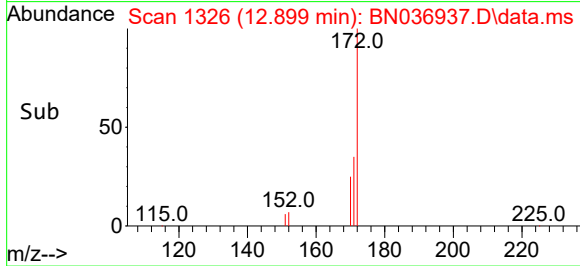


#15
2-Fluorobiphenyl
Concen: 0.081 ng
RT: 12.899 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Instrument :
BNA_N
ClientSampleId :
38072-010925DL

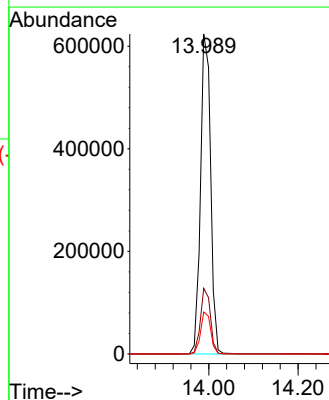
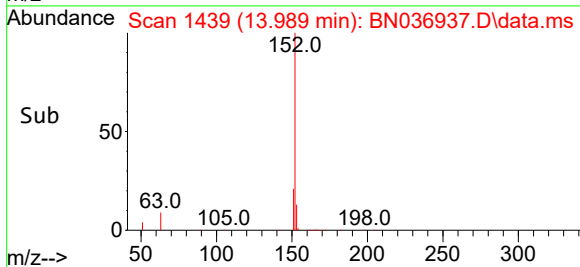
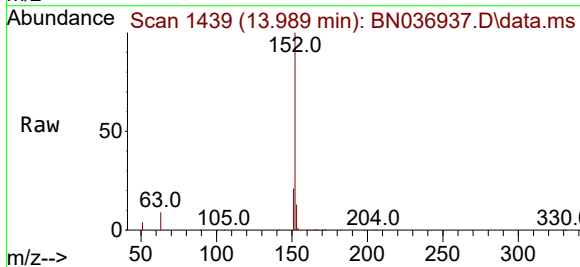


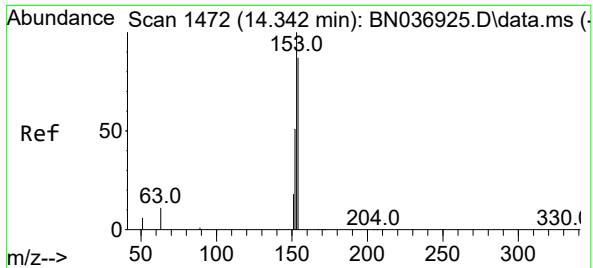
Tgt Ion:172 Resp: 1634
Ion Ratio Lower Upper
172 100
171 38.6 29.4 44.0
170 29.1 19.4 29.0#



#16
Acenaphthylene
Concen: 48.255 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:152 Resp: 983461
Ion Ratio Lower Upper
152 100
151 20.2 16.0 24.0
153 13.1 10.2 15.2

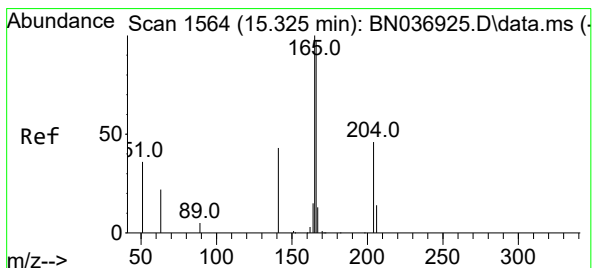
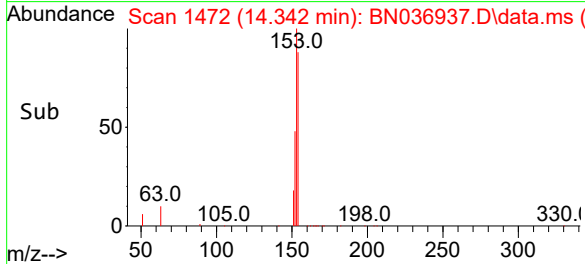
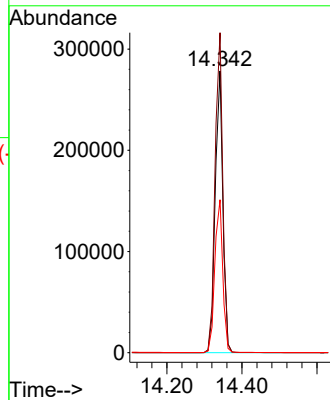
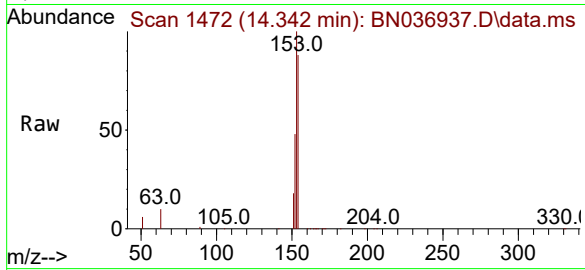




#17
Acenaphthene
Concen: 29.289 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

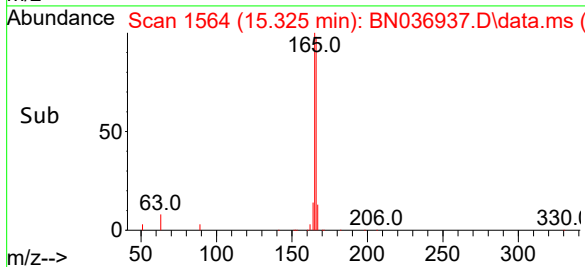
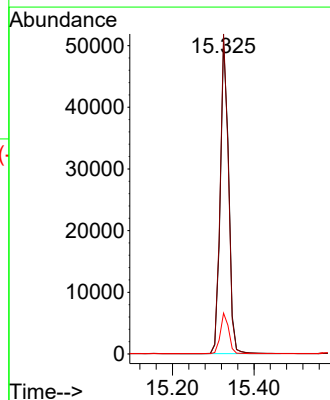
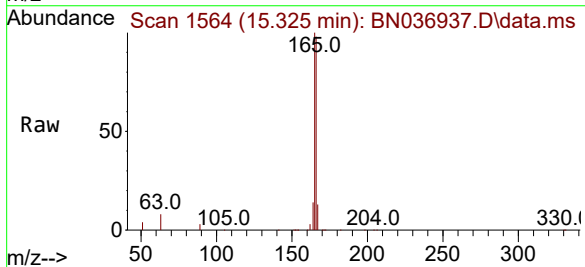
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

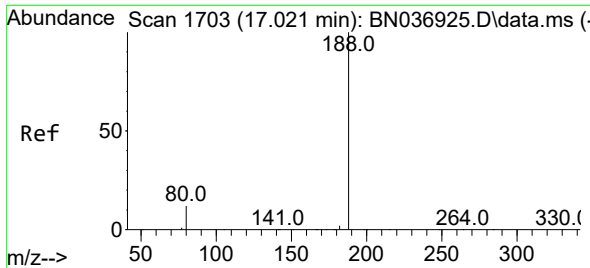
Tgt Ion:154 Resp: 392189
Ion Ratio Lower Upper
154 100
153 115.3 93.4 140.2
152 56.6 49.5 74.3



#18
Fluorene
Concen: 4.105 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:166 Resp: 71886
Ion Ratio Lower Upper
166 100
165 100.5 80.8 121.2
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

Instrument :

BNA_N

ClientSampleId :

38072-010925DL

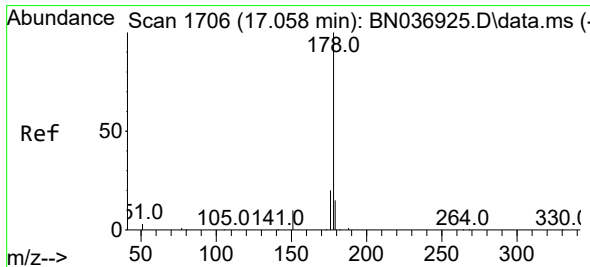
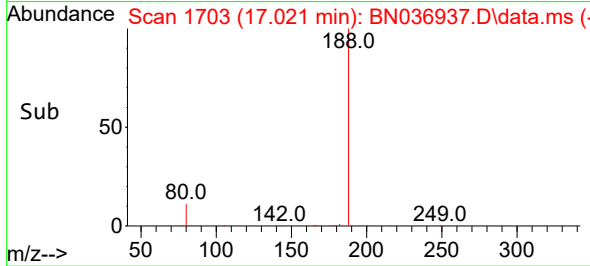
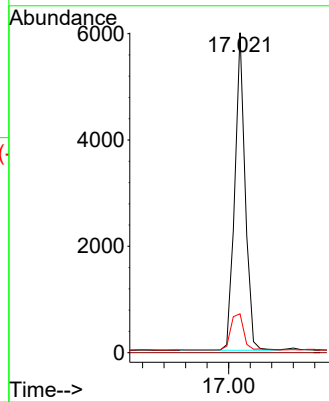
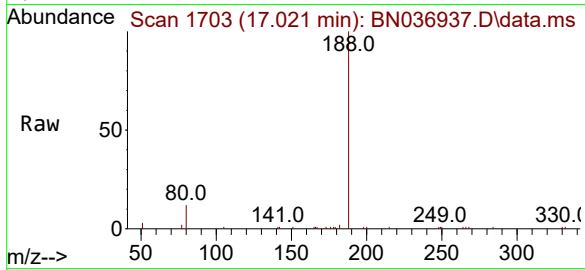
Tgt Ion:188 Resp: 7996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 10.7 16.1



#25

Phenanthrene

Concen: 15.898 ng

RT: 17.058 min Scan# 1706

Delta R.T. 0.000 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

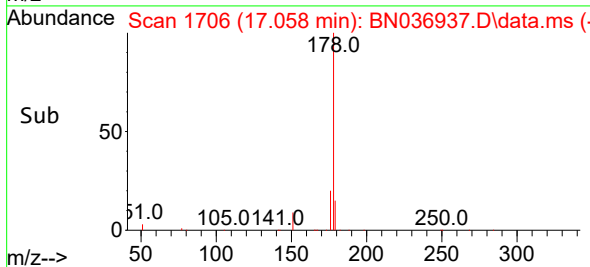
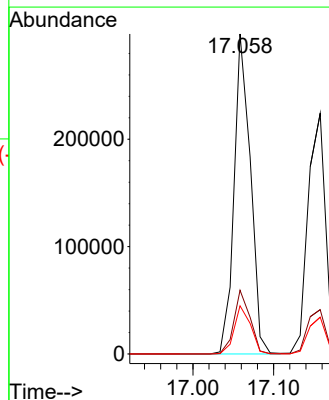
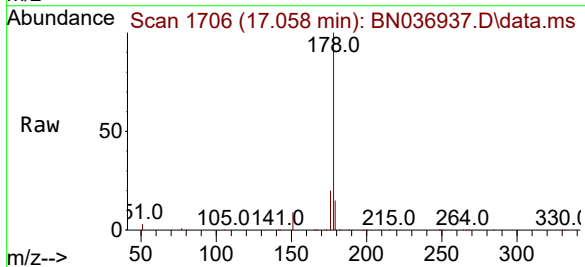
Tgt Ion:178 Resp: 419564

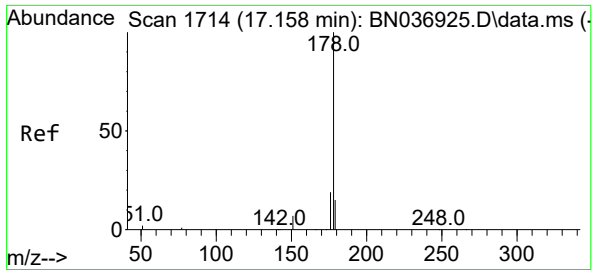
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.2 12.4 18.6

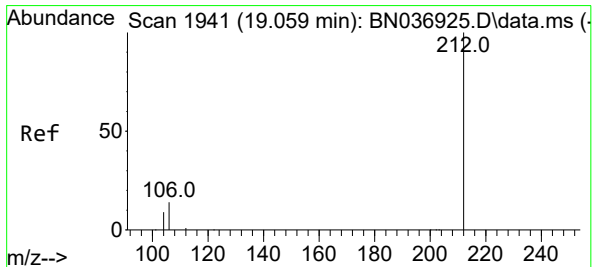
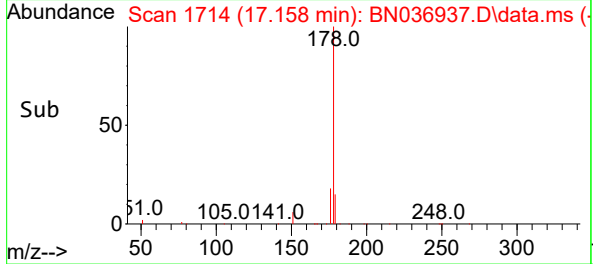
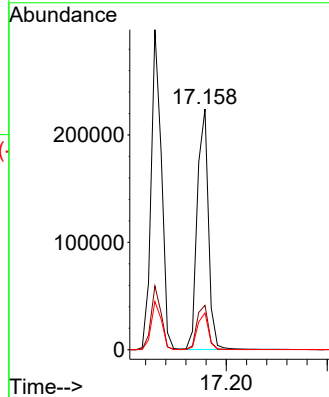
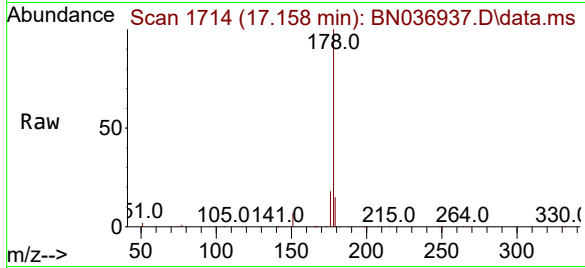




#26
Anthracene
Concen: 14.445 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

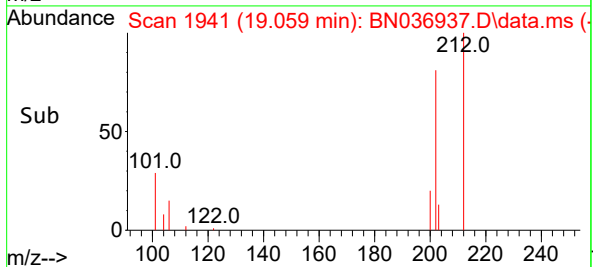
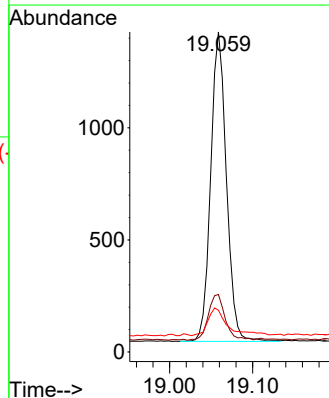
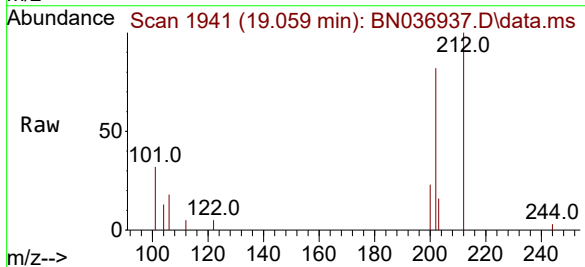
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

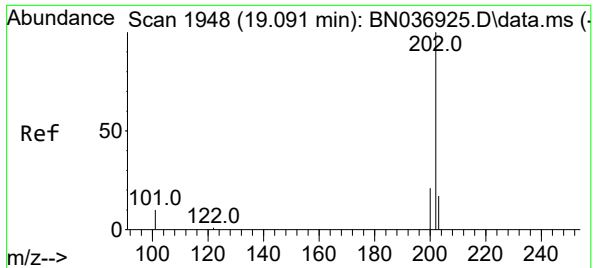
Tgt Ion:178 Resp: 344832
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.1 12.1 18.1



#27
Fluoranthene-d10
Concen: 0.088 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:212 Resp: 1819
Ion Ratio Lower Upper
212 100
106 15.9 11.6 17.4
104 11.4 7.0 10.4#

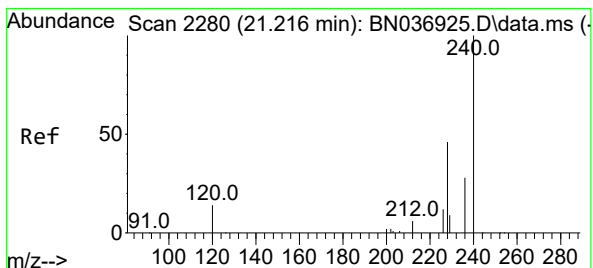
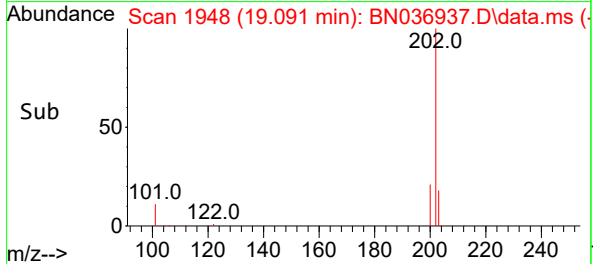
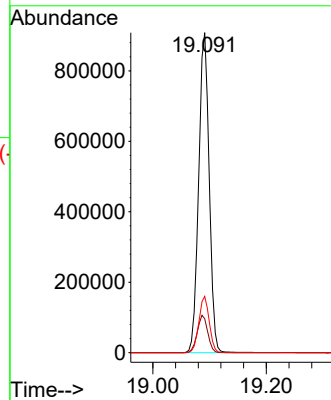
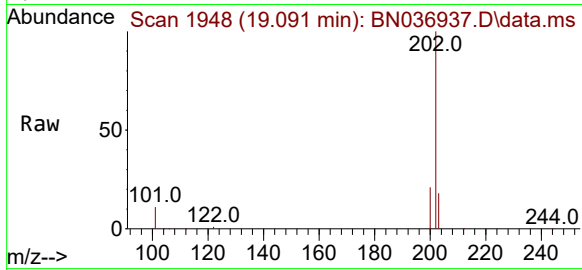




#28
Fluoranthene
Concen: 39.363 ng
RT: 19.091 min Scan# 1948
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

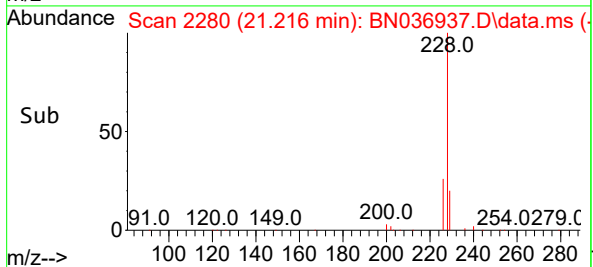
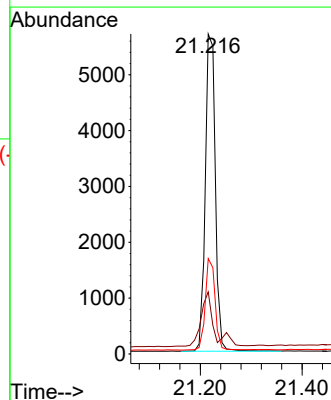
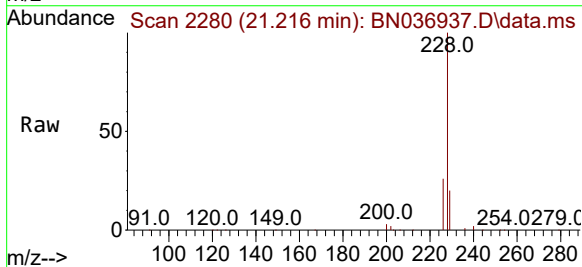
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

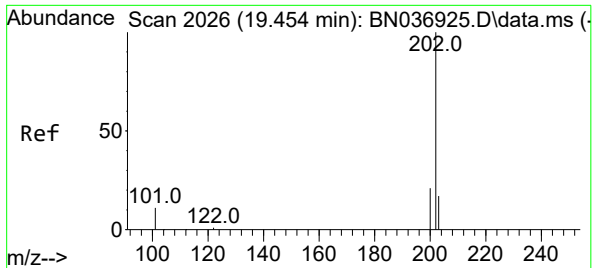
Tgt Ion:202 Resp: 1164278
Ion Ratio Lower Upper
202 100
101 11.6 8.5 12.7
203 17.4 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:240 Resp: 7787
Ion Ratio Lower Upper
240 100
120 19.4 14.1 21.1
236 29.8 23.8 35.8

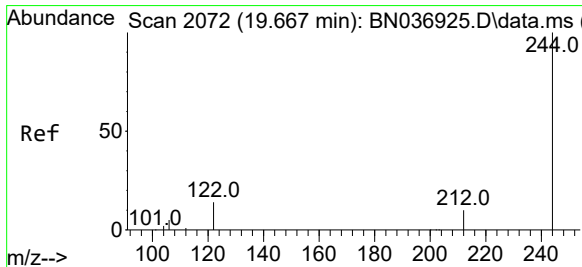
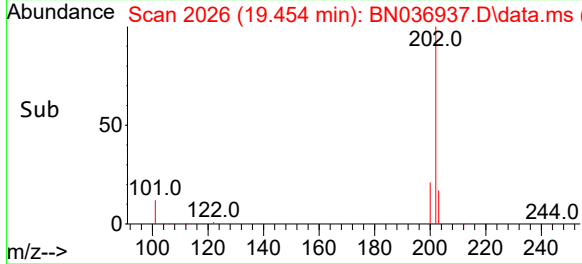
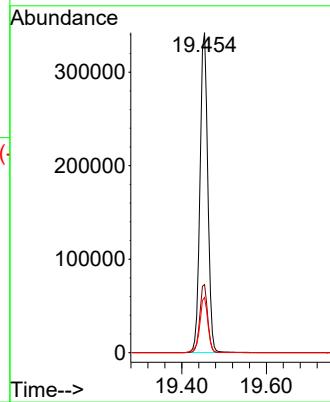
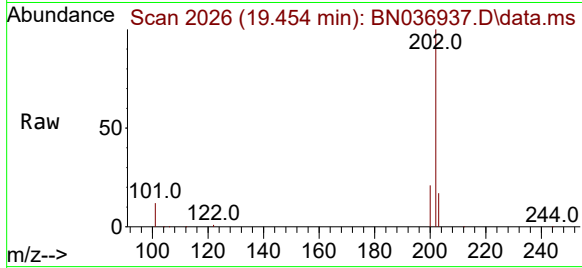




#30
Pyrene
Concen: 11.609 ng
RT: 19.454 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

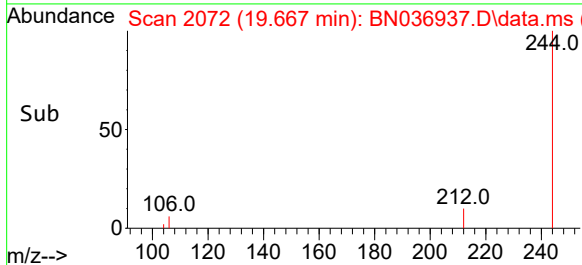
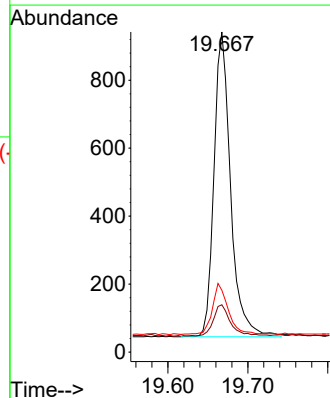
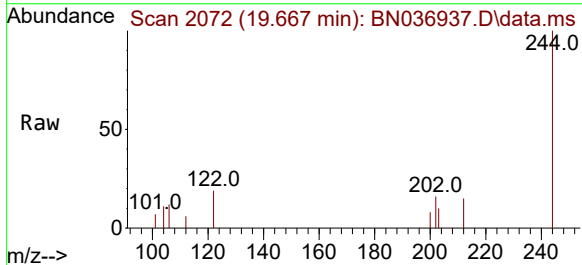
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

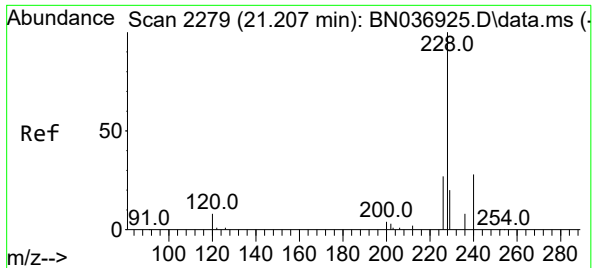
Tgt Ion:202 Resp: 435369
Ion Ratio Lower Upper
202 100
200 21.5 17.0 25.6
203 18.1 14.0 21.0



#31
Terphenyl-d14
Concen: 0.070 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

Tgt Ion:244 Resp: 1294
Ion Ratio Lower Upper
244 100
212 14.8 9.6 14.4#
122 19.3 12.7 19.1#

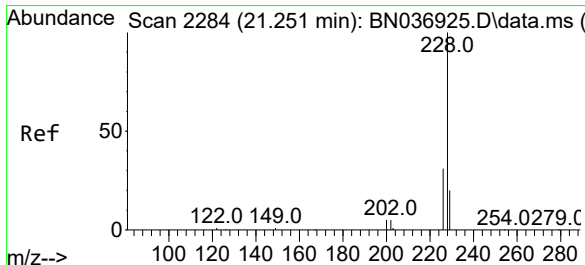
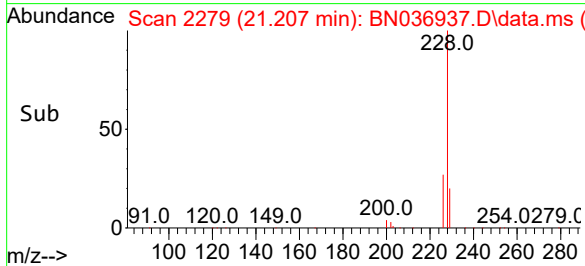
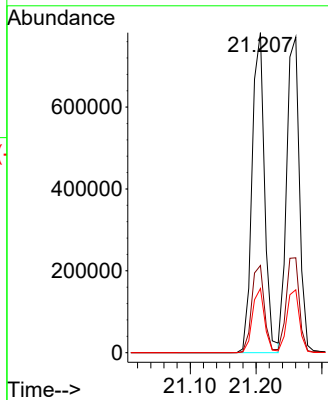
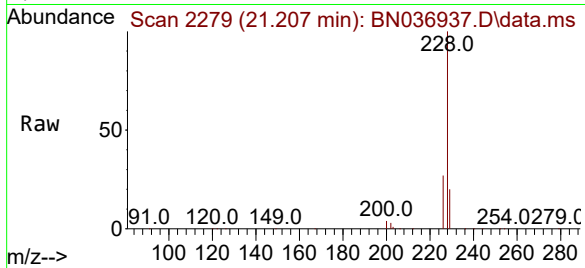




#32
Benzo(a)anthracene
Concen: 35.945 ng
RT: 21.207 min Scan# 2128
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

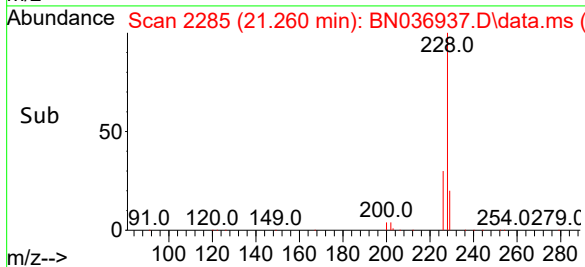
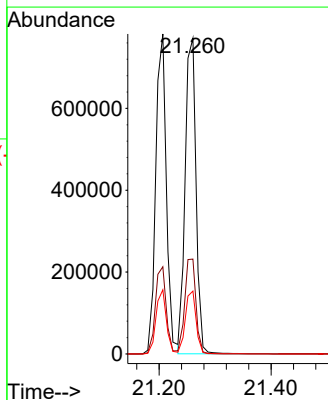
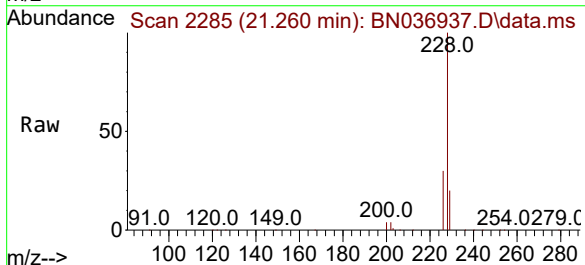
Instrument :
BNA_N
ClientSampleId :
38072-010925DL

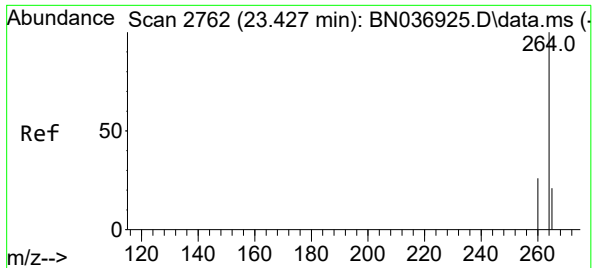
Tgt Ion:228 Resp: 1030872
Ion Ratio Lower Upper
228 100
226 27.3 22.2 33.4
229 20.0 16.4 24.6



#33
Chrysene
Concen: 33.727 ng
RT: 21.260 min Scan# 2285
Delta R.T. 0.009 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

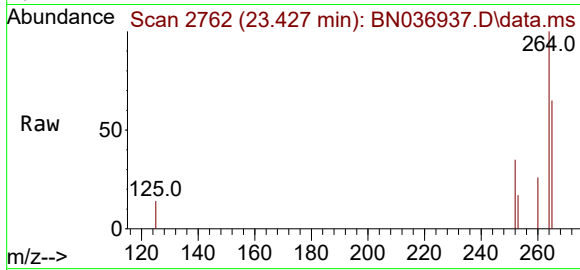
Tgt Ion:228 Resp: 1043139
Ion Ratio Lower Upper
228 100
226 30.1 25.5 38.3
229 19.9 16.5 24.7



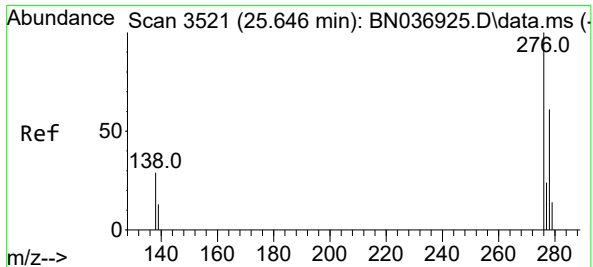
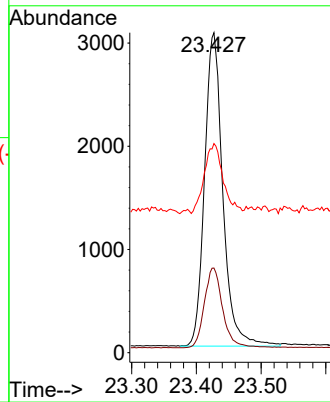
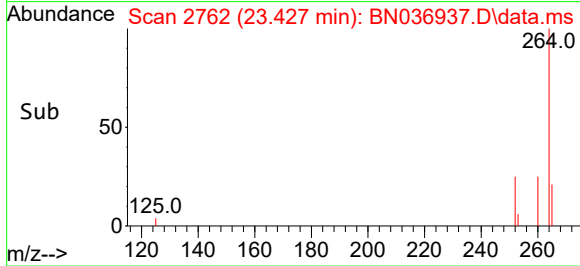


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41

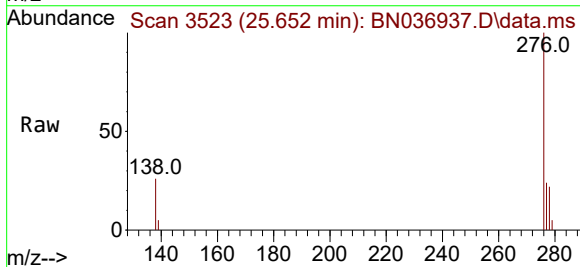
Instrument :
BNA_N
ClientSampleId :
38072-010925DL



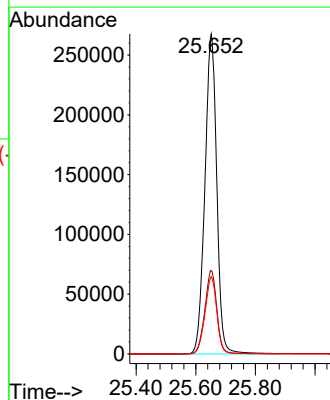
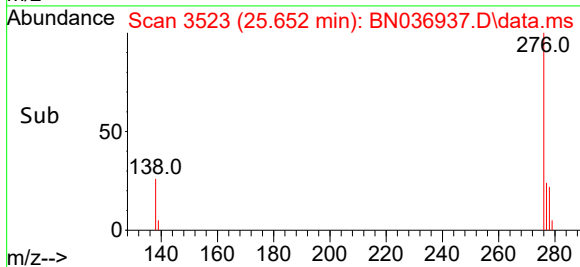
Tgt Ion:264 Resp: 5957
Ion Ratio Lower Upper
264 100
260 26.5 22.2 33.2
265 65.4 65.8 98.6#

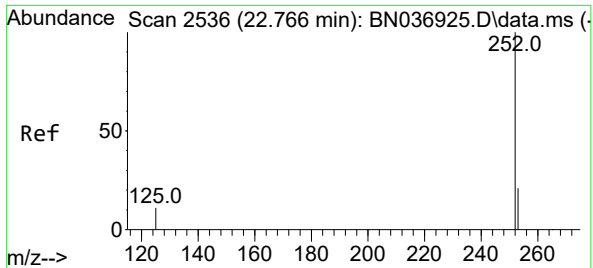


#36
Indeno(1,2,3-cd)pyrene
Concen: 30.377 ng
RT: 25.652 min Scan# 3523
Delta R.T. 0.006 min
Lab File: BN036937.D
Acq: 29 Apr 2025 13:41



Tgt Ion:276 Resp: 739011
Ion Ratio Lower Upper
276 100
138 26.4 23.0 34.6
277 24.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 28.346 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036937.D

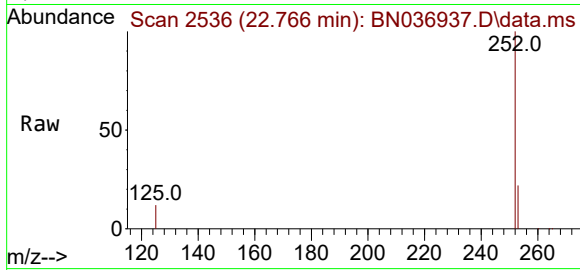
Acq: 29 Apr 2025 13:41

Instrument :

BNA_N

ClientSampleId :

38072-010925DL



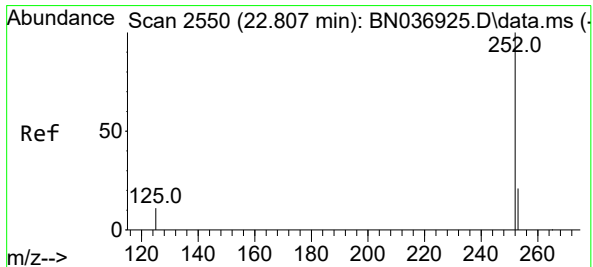
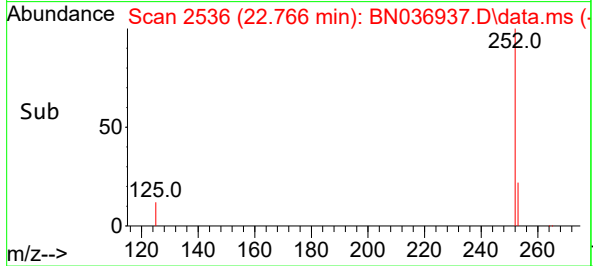
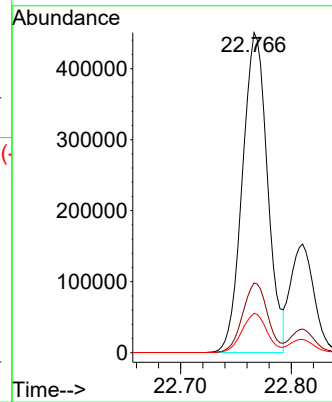
Tgt Ion:252 Resp: 710014

Ion Ratio Lower Upper

252 100

253 21.8 22.1 33.1#

125 12.3 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 9.109 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

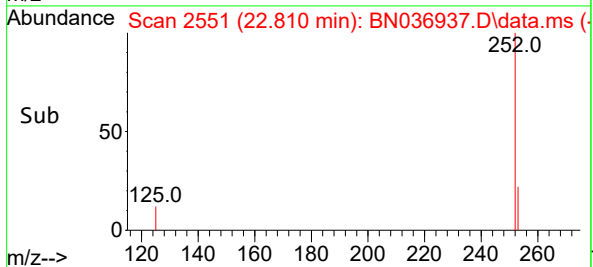
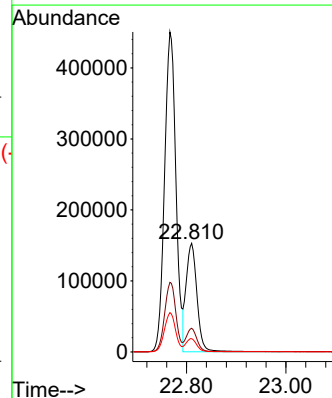
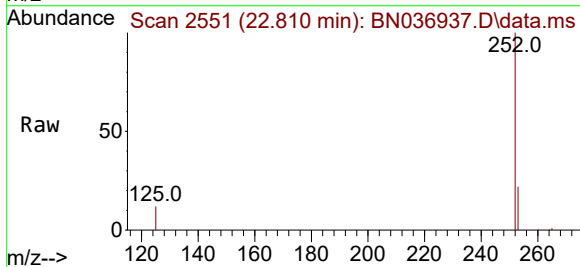
Tgt Ion:252 Resp: 229443

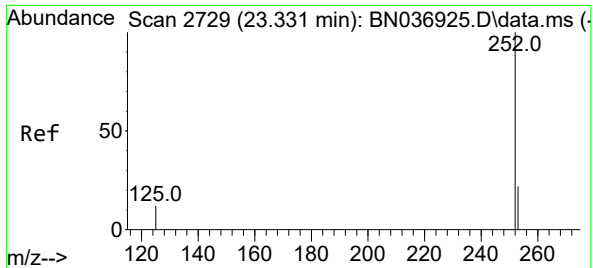
Ion Ratio Lower Upper

252 100

253 21.8 22.8 34.2#

125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 17.678 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036937.D

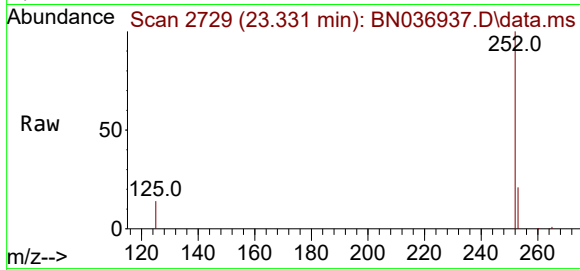
Acq: 29 Apr 2025 13:41

Instrument :

BNA_N

ClientSampleId :

38072-010925DL



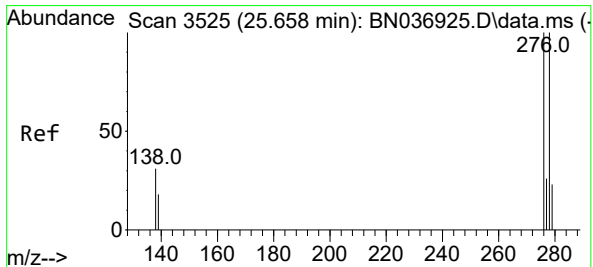
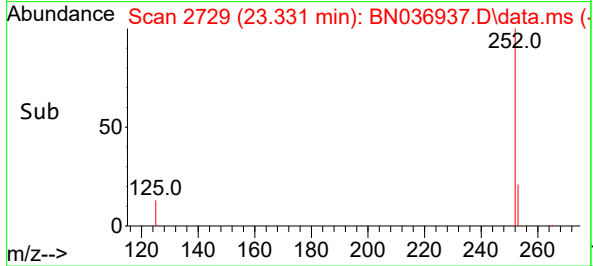
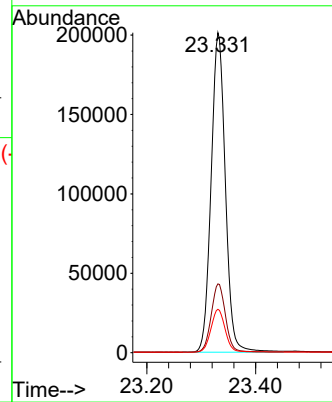
Tgt Ion:252 Resp: 364004

Ion Ratio Lower Upper

252 100

253 21.5 25.9 38.9#

125 13.5 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 9.314 ng

RT: 25.661 min Scan# 3526

Delta R.T. 0.003 min

Lab File: BN036937.D

Acq: 29 Apr 2025 13:41

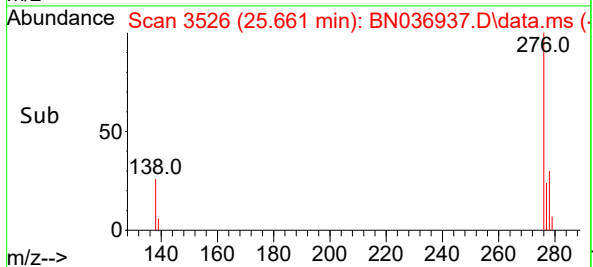
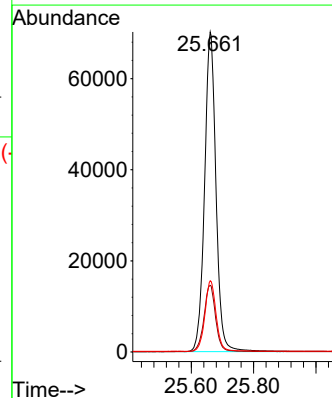
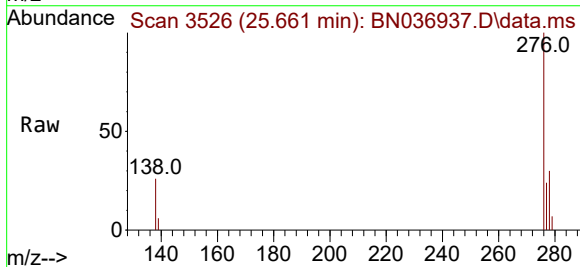
Tgt Ion:278 Resp: 178329

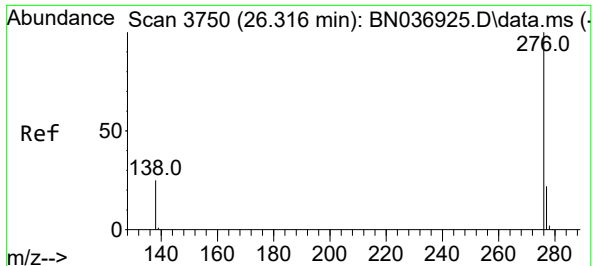
Ion Ratio Lower Upper

278 100

139 20.8 17.4 26.2

279 22.3 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 8.458 ng

RT: 26.322 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036937.D

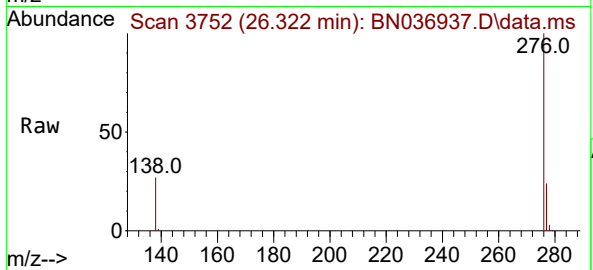
Acq: 29 Apr 2025 13:41

Instrument :

BNA_N

ClientSampleId :

38072-010925DL



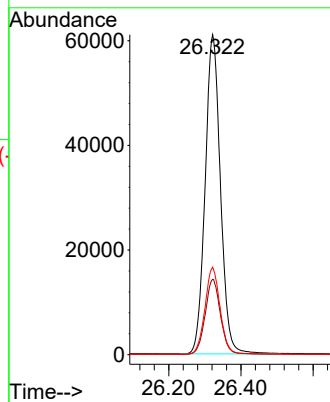
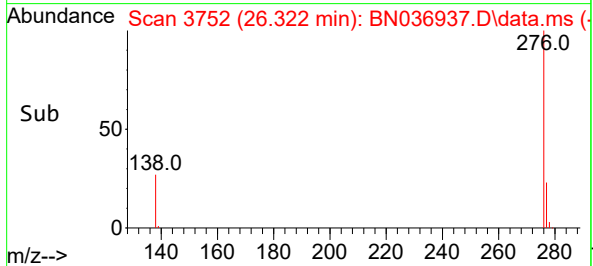
Tgt Ion:276 Resp: 179719

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 27.3 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
 Data File : BN036938.D
 Acq On : 29 Apr 2025 14:17
 Operator : RC/JU
 Sample : Q1870-01DL2 50X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 38072-010925DL2

Quant Time: Apr 29 14:40:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

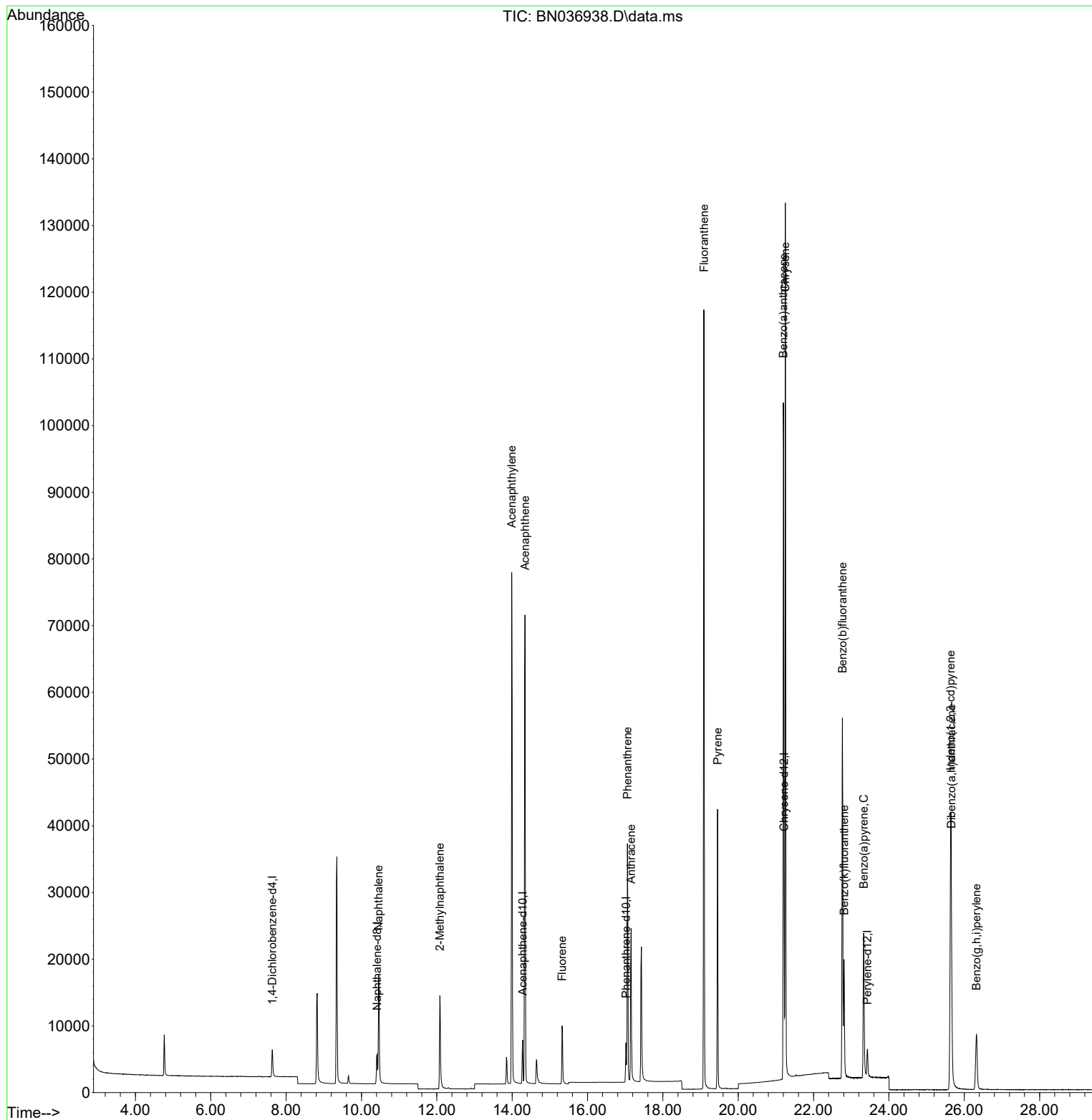
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2432	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6295	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3589	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7137	0.400	ng	0.00
29) Chrysene-d12	21.215	240	6695	0.400	ng	# 0.00
35) Perylene-d12	23.430	264	5501	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
11) 2-Methylnaphthalene-d10	0.000	152	0d	0.000	ng	
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
27) Fluoranthene-d10	0.000	212	0d	0.000	ng	
31) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						
9) Naphthalene	10.458	128	22192	1.211	ng	98
12) 2-Methylnaphthalene	12.082	142	11450	0.967	ng	99
16) Acenaphthylene	13.989	152	79777	4.548	ng	99
17) Acenaphthene	14.341	154	34081	2.957	ng	99
18) Fluorene	15.325	166	6026	0.400	ng	98
25) Phenanthrene	17.058	178	35341	1.500	ng	99
26) Anthracene	17.158	178	26761	1.256	ng	100
28) Fluoranthene	19.091	202	103493	3.920	ng	99
30) Pyrene	19.453	202	36010	1.117	ng	99
32) Benzo(a)anthracene	21.197	228	84662	3.434	ng	97
33) Chrysene	21.251	228	101268	3.808	ng	98
36) Indeno(1,2,3-cd)pyrene	25.640	276	68690	3.058	ng	96
37) Benzo(b)fluoranthene	22.766	252	63619	2.750	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	21335	0.917	ng	# 91
39) Benzo(a)pyrene	23.330	252	31475	1.655	ng	# 85
40) Dibenzo(a,h)anthracene	25.658	278	16267	0.920	ng	93
41) Benzo(g,h,i)perylene	26.324	276	16655	0.849	ng	99

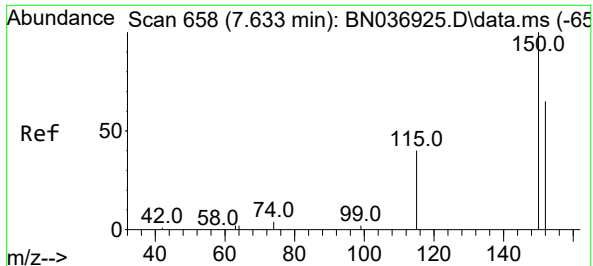
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036938.D
Acq On : 29 Apr 2025 14:17
Operator : RC/JU
Sample : Q1870-01DL2 50X
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

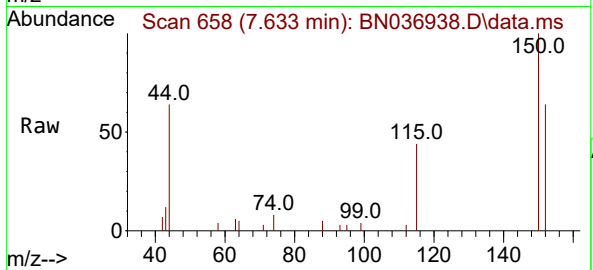
Quant Time: Apr 29 14:40:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



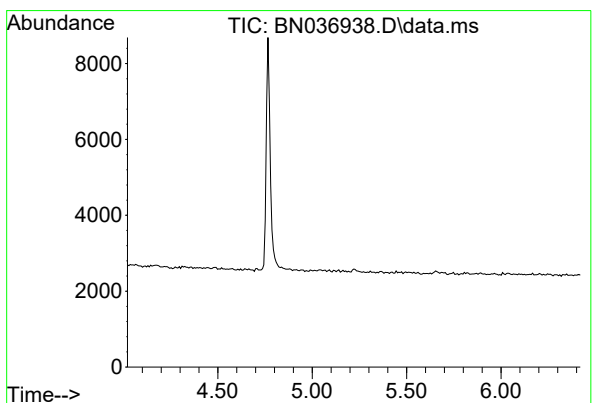
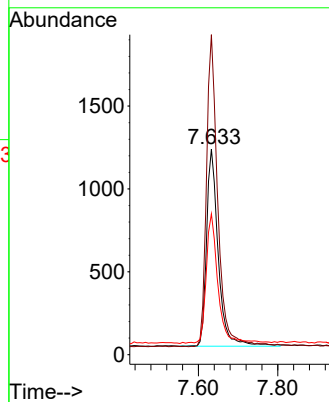
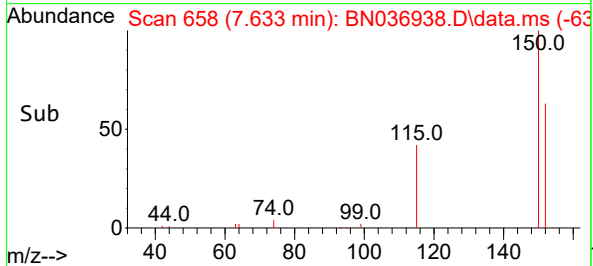


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2



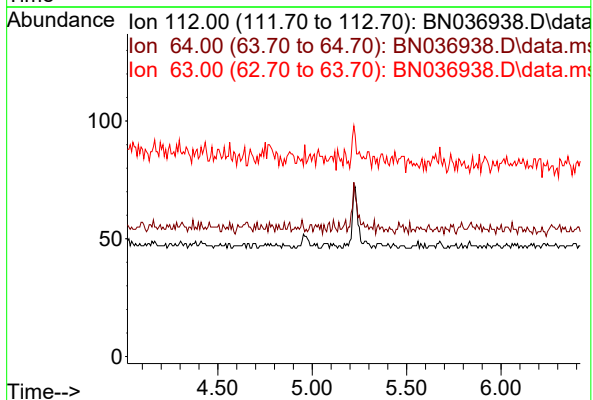
Tgt Ion:152 Resp: 2432
Ion Ratio Lower Upper
152 100
150 155.6 121.1 181.7
115 68.5 51.8 77.6

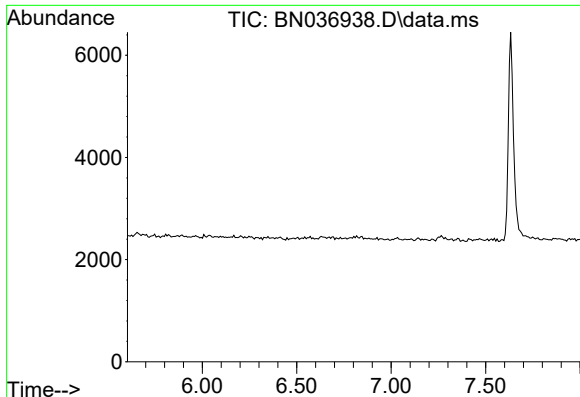


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.22 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 112
Sig Exp Ratio
112 100
64 69.6
63 42.4



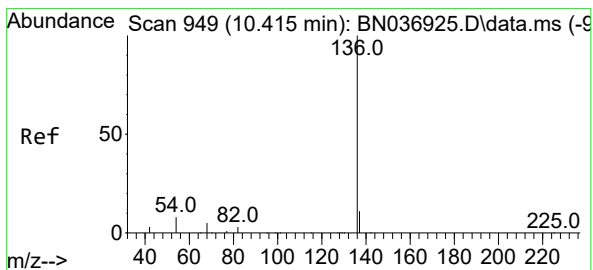
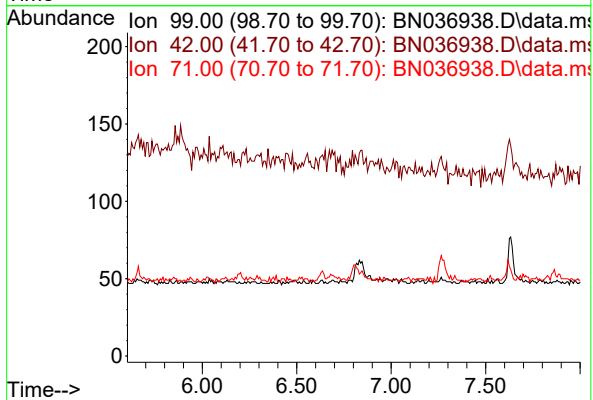


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.80 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

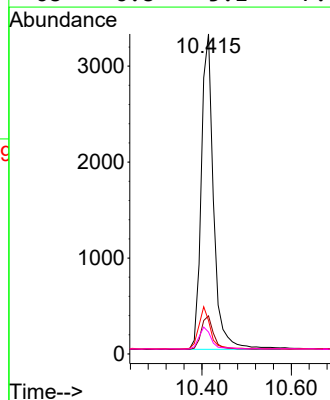
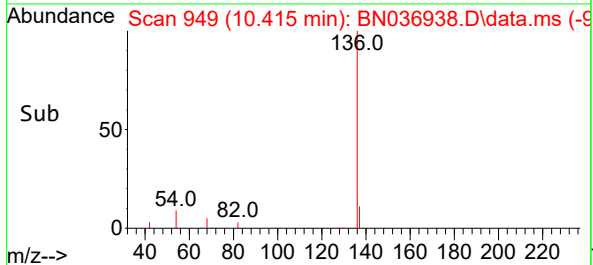
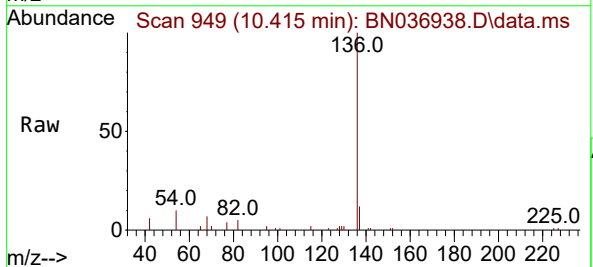
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

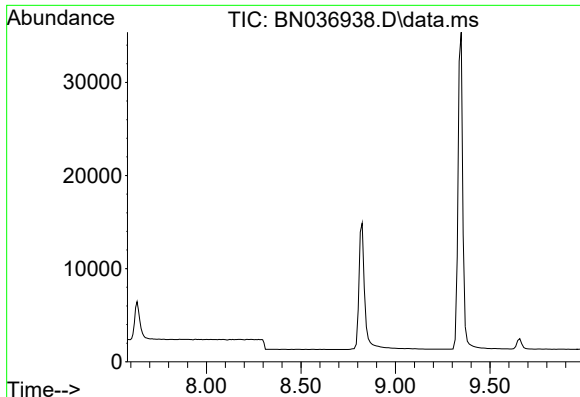
Tgt Ion: 99
Sig Exp Ratio
99 100
42 37.0
71 45.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 136 Resp: 6295
Ion Ratio Lower Upper
136 100
137 11.9 9.7 14.5
54 10.4 8.0 12.0
68 6.8 5.1 7.7



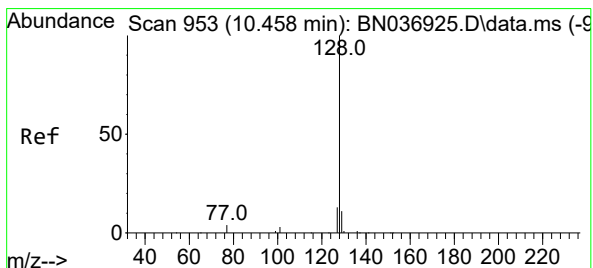
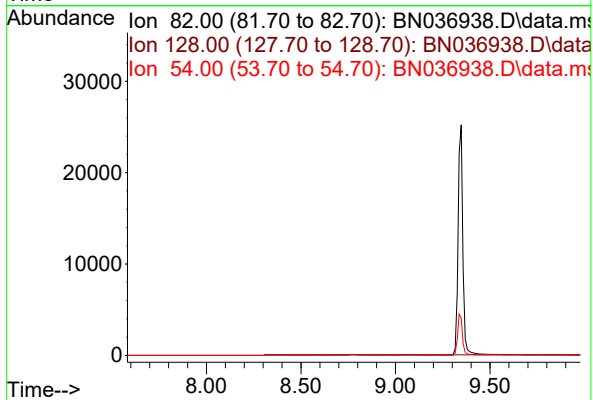


#8
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.78 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

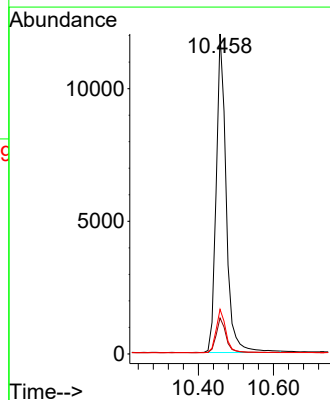
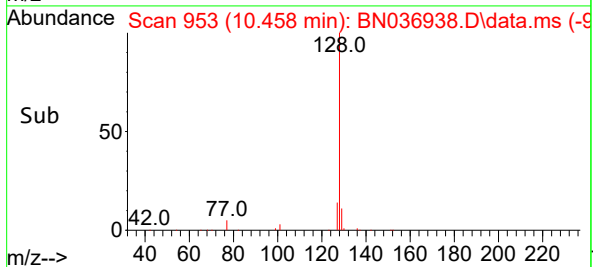
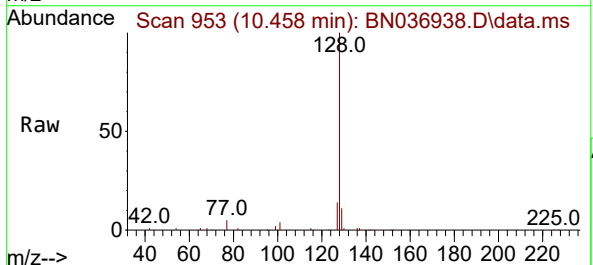
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

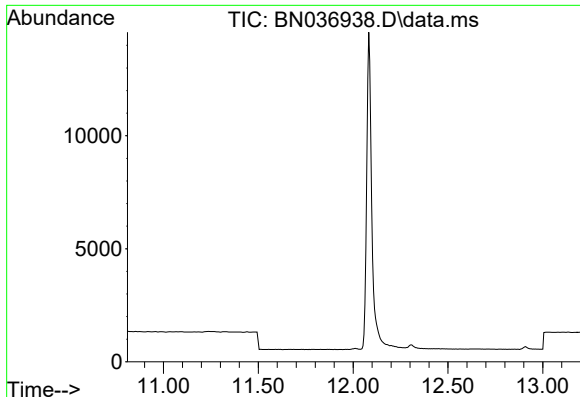
Sig	Exp	Ratio
82	100	
128	38.4	
54	65.1	



#9
Naphthalene
Concen: 1.211 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion	128	Resp	22192
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.8	14.6
127	13.9	11.4	17.2

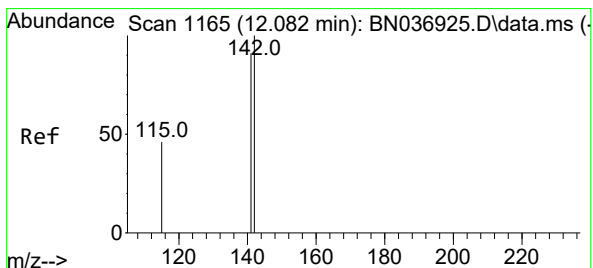
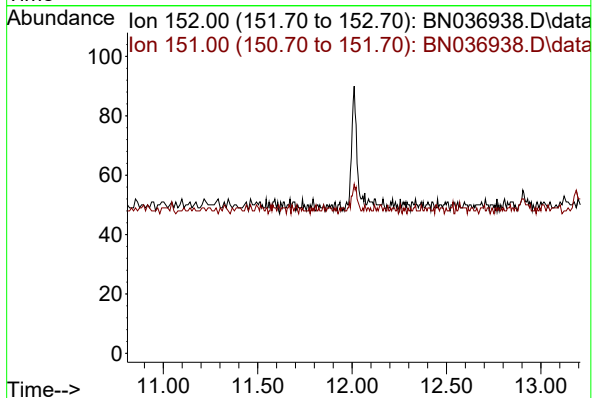




#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
Expected RT: 12.01 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

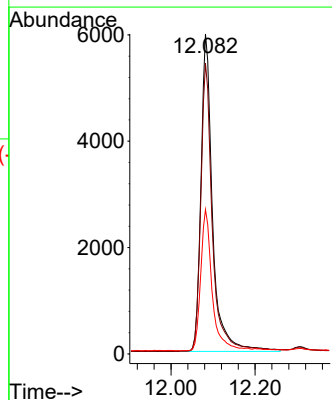
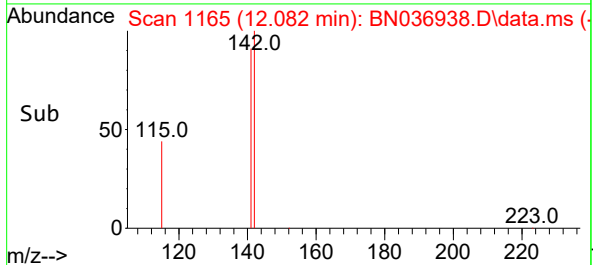
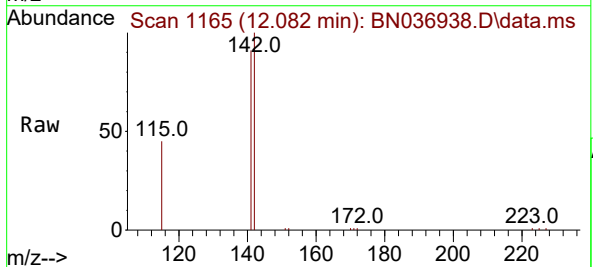
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

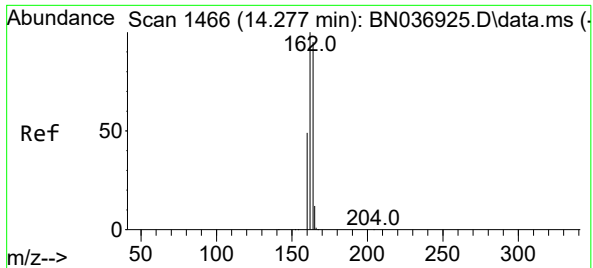
Tgt Ion: 152
Sig Exp Ratio
152 100
151 21.1



#12
2-Methylnaphthalene
Concen: 0.967 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

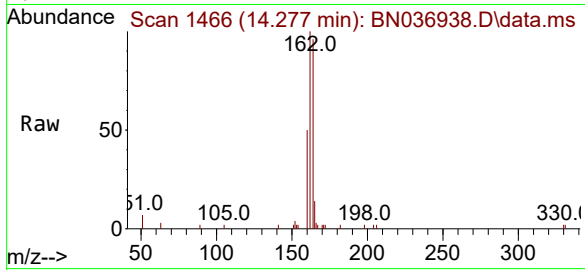
Tgt Ion:142 Resp: 11450
Ion Ratio Lower Upper
142 100
141 90.8 72.8 109.2
115 45.2 38.2 57.4



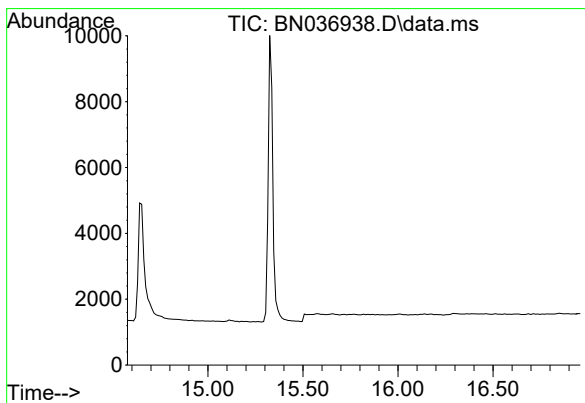
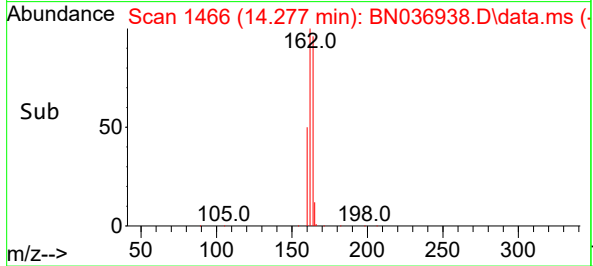
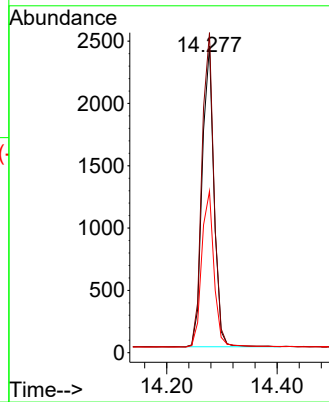


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2



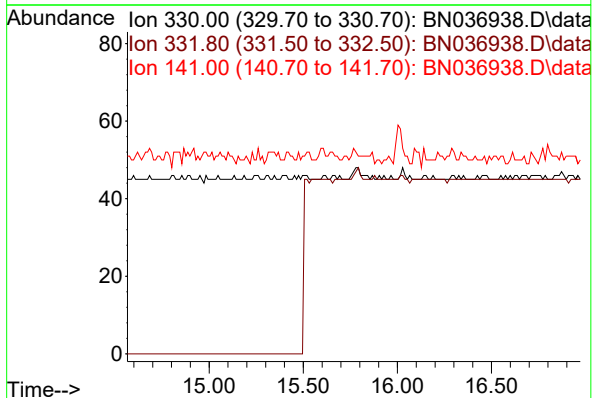
Tgt Ion:164 Resp: 3589
Ion Ratio Lower Upper
164 100
162 104.3 83.8 125.8
160 52.6 42.0 63.0

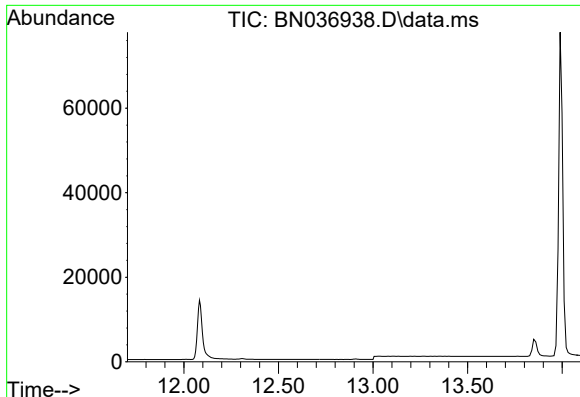


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.77 min

Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 330
Sig Exp Ratio
330 100
332 95.4
141 56.8

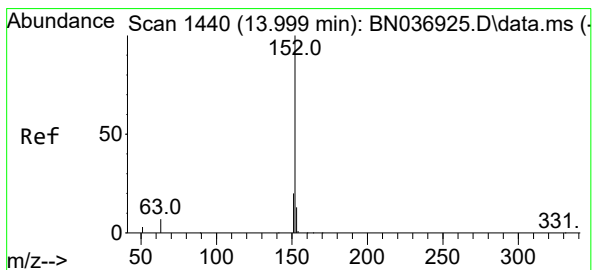
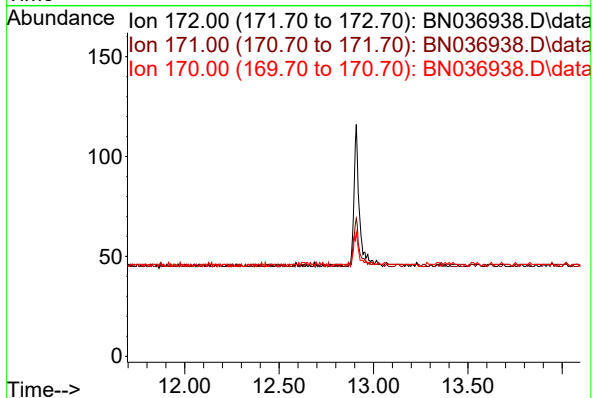




#15
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 12.90 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

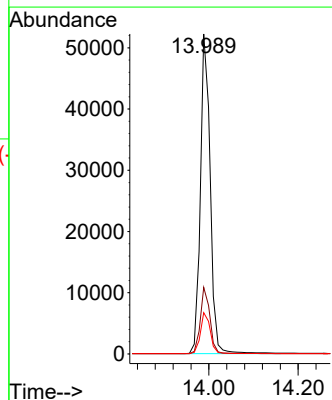
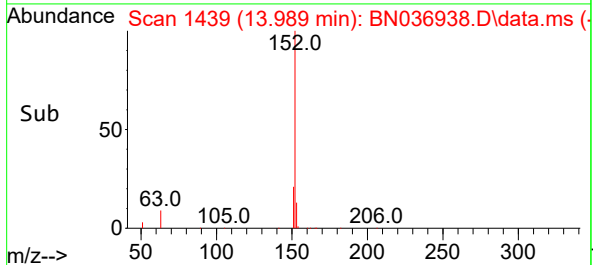
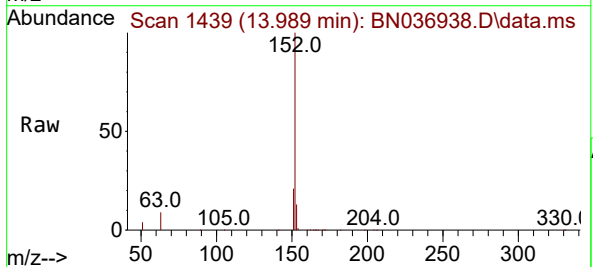
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

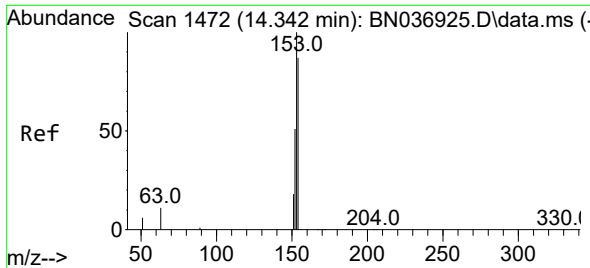
Tgt Ion: 172
Sig Exp Ratio
172 100
171 36.7
170 24.2



#16
Acenaphthylene
Concen: 4.548 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion: 152 Resp: 79777
Ion Ratio Lower Upper
152 100
151 20.3 16.0 24.0
153 13.0 10.2 15.2

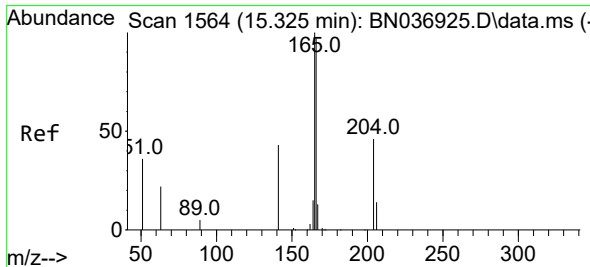
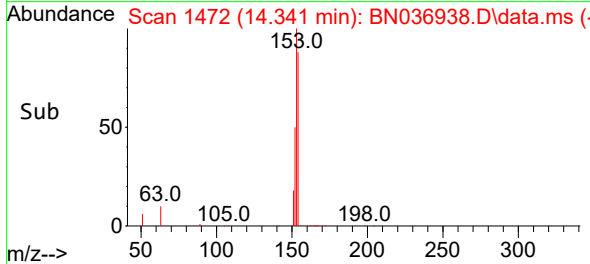
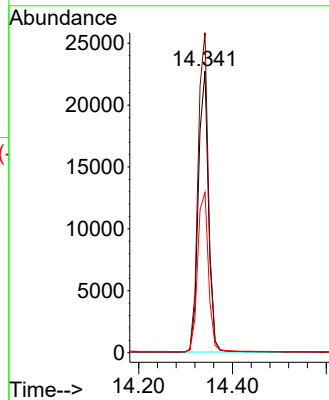
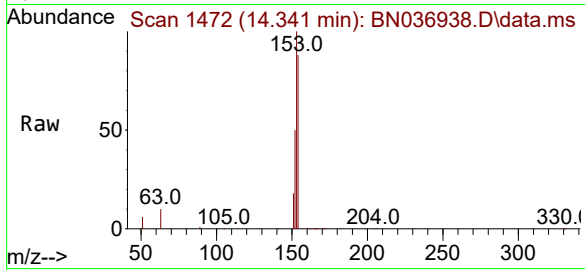




#17
Acenaphthene
Concen: 2.957 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

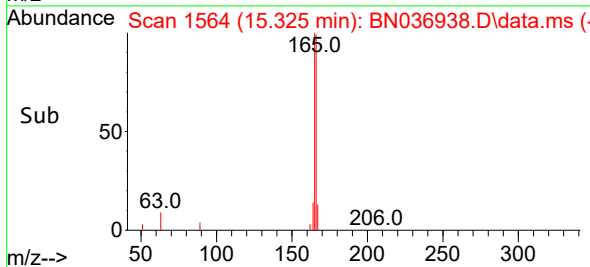
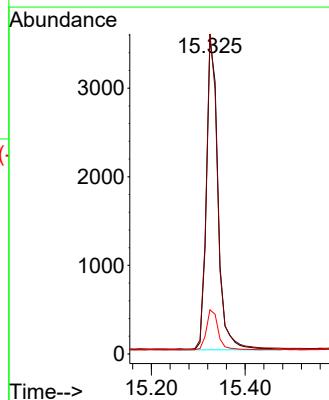
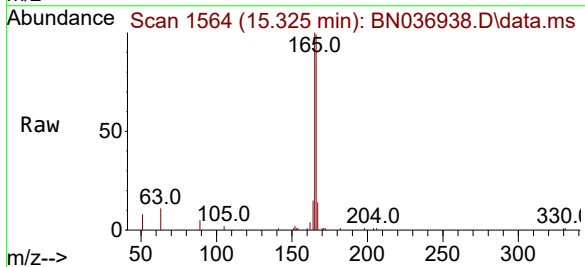
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

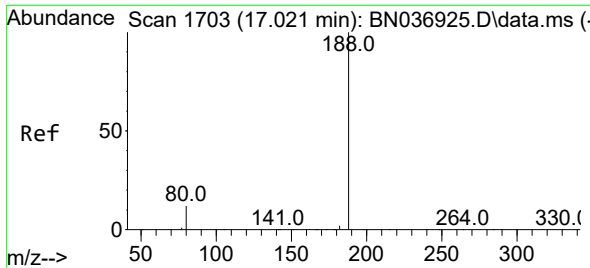
Tgt Ion:154 Resp: 34081
Ion Ratio Lower Upper
154 100
153 116.2 93.4 140.2
152 60.5 49.5 74.3



#18
Fluorene
Concen: 0.400 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:166 Resp: 6026
Ion Ratio Lower Upper
166 100
165 99.4 80.8 121.2
167 13.1 10.8 16.2

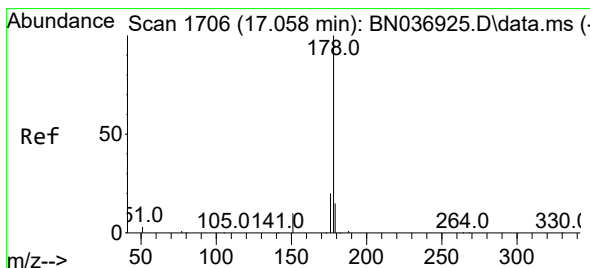
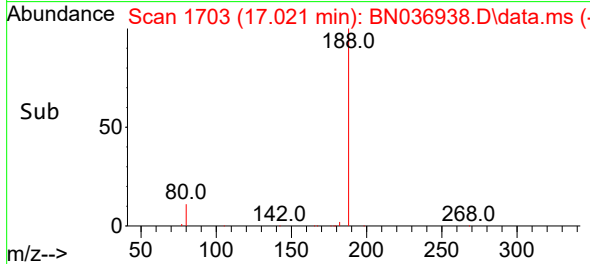
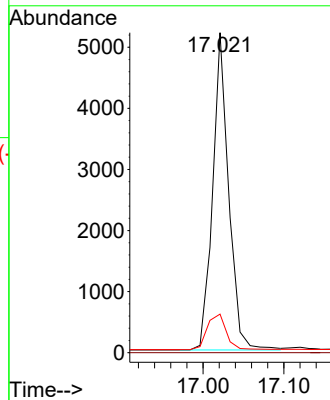
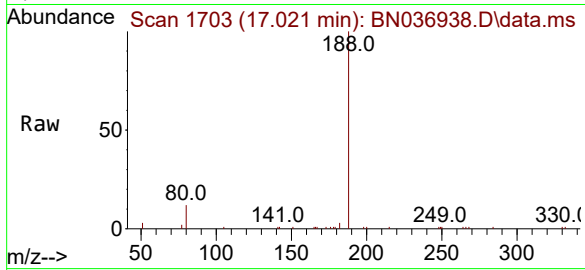




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

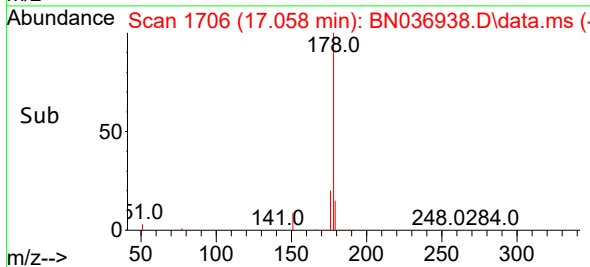
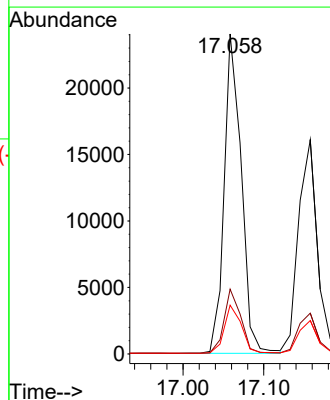
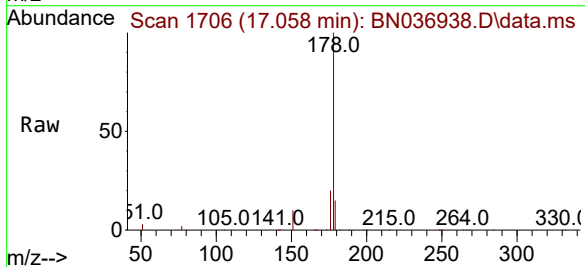
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

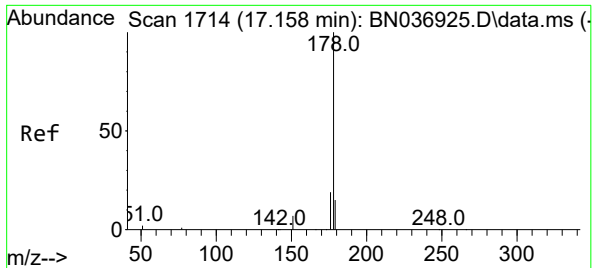
Tgt Ion:188 Resp: 7137
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.0 10.7 16.1



#25
Phenanthrene
Concen: 1.500 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:178 Resp: 35341
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.1 12.4 18.6

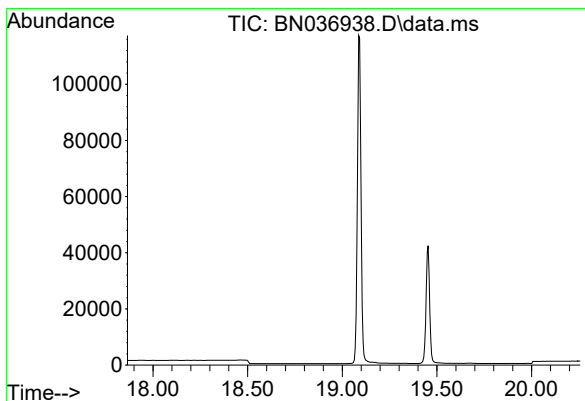
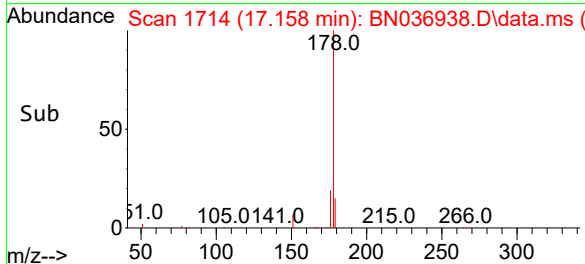
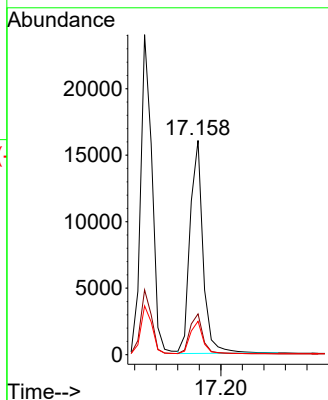
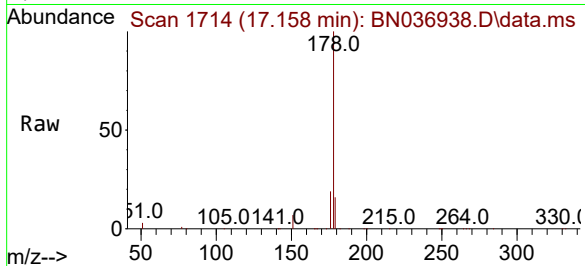




#26
Anthracene
Concen: 1.256 ng
RT: 17.158 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

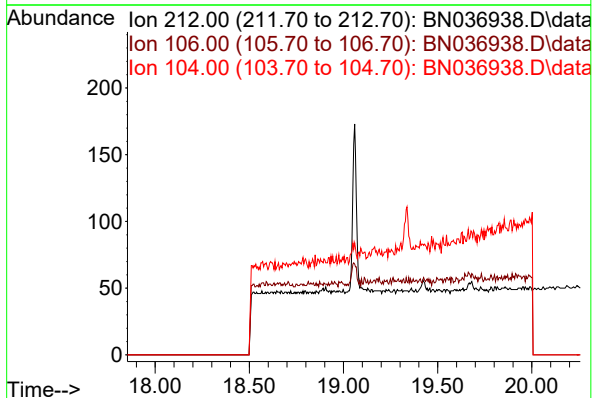
Tgt Ion	Resp	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.3	12.1	18.1



#27
Fluoranthene-d10
Concen: 0.000 ng
Expected RT: 19.06 min

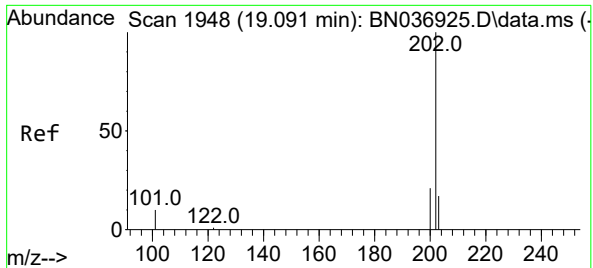
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion	Sig	Exp Ratio
212	100	
106	14.5	
104	8.7	



Ion 106.00 (105.70 to 106.70): BN036938.D\data.ms

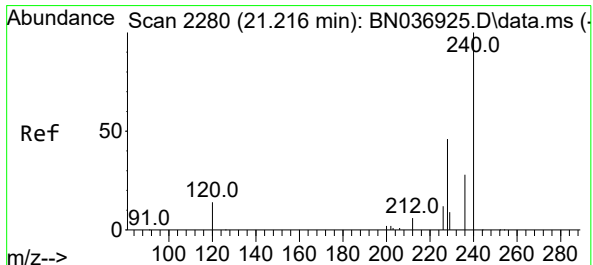
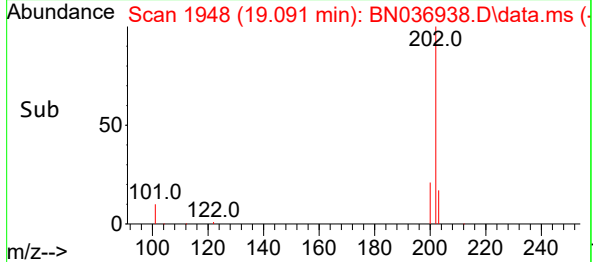
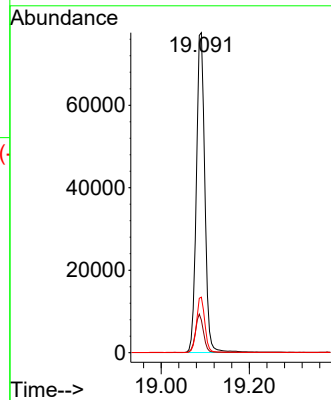
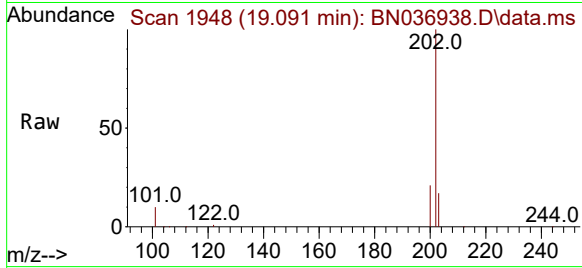
Ion 104.00 (103.70 to 104.70): BN036938.D\data.ms



#28
Fluoranthene
Concen: 3.920 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

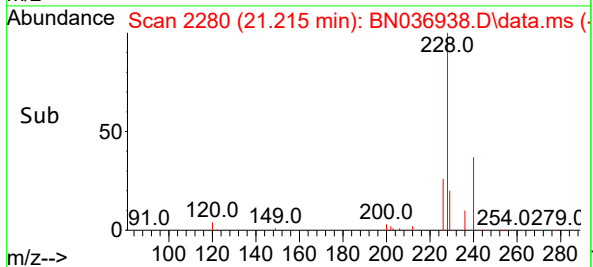
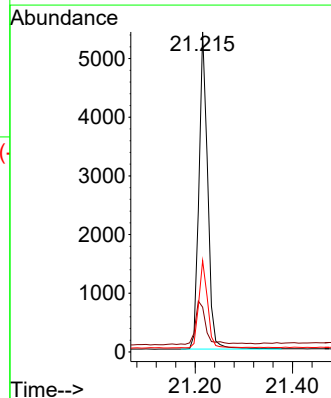
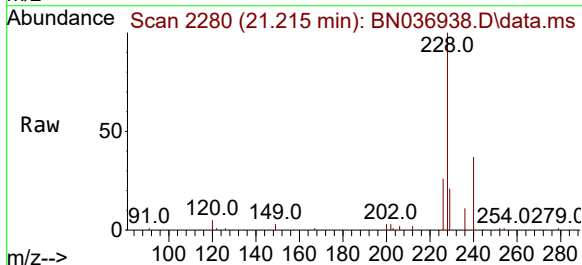
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

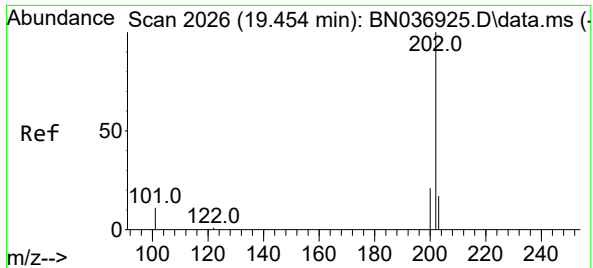
Tgt Ion:202 Resp: 103493
Ion Ratio Lower Upper
202 100
101 11.4 8.5 12.7
203 17.2 13.7 20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:240 Resp: 6695
Ion Ratio Lower Upper
240 100
120 14.0 14.1 21.1#
236 28.5 23.8 35.8





#30

Pyrene

Concen: 1.117 ng

RT: 19.453 min Scan# 20

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

Instrument :

BNA_N

ClientSampleId :

38072-010925DL2

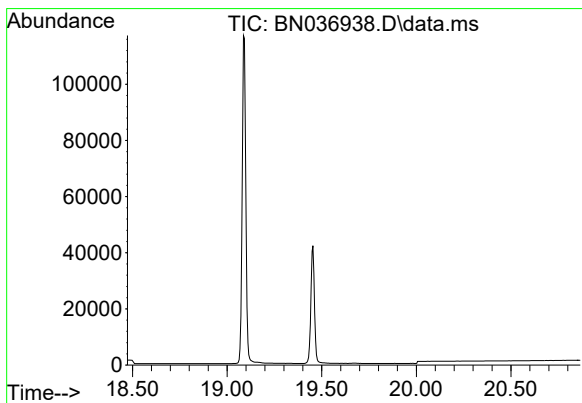
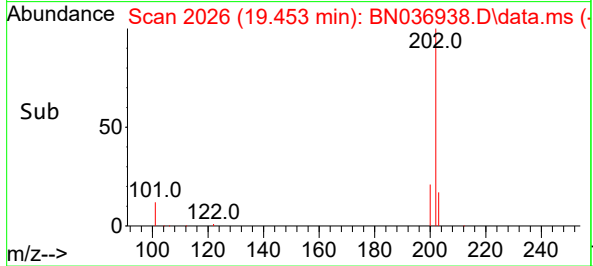
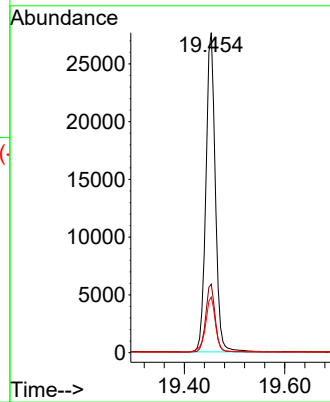
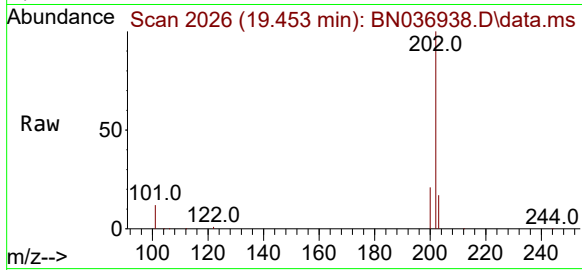
Tgt Ion:202 Resp: 36010

Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 18.2 14.0 21.0



#31

Terphenyl-d14

Concen: 0.000 ng

Expected RT: 19.67 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

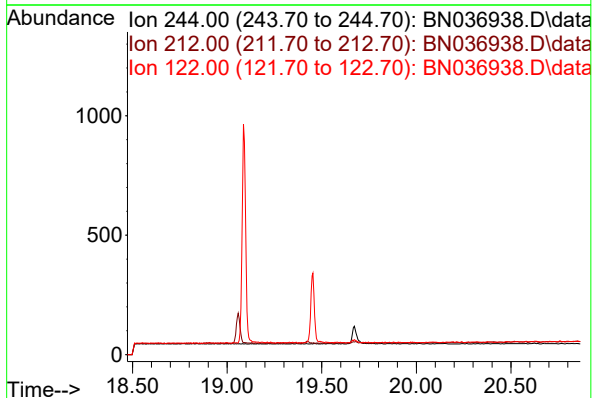
Tgt Ion: 244

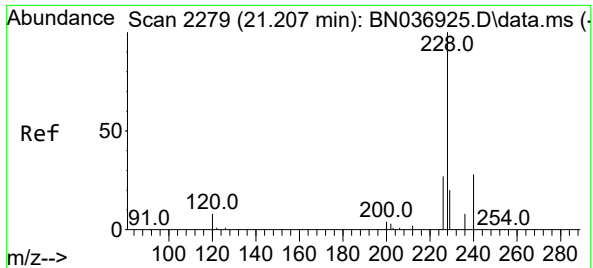
Sig Exp Ratio

244 100

212 12.0

122 15.9

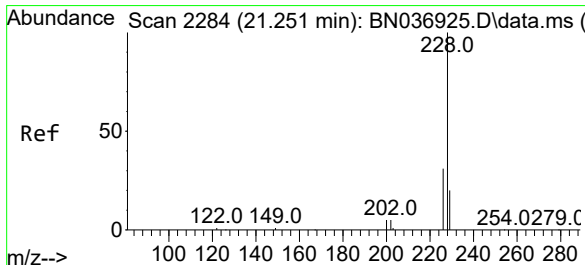
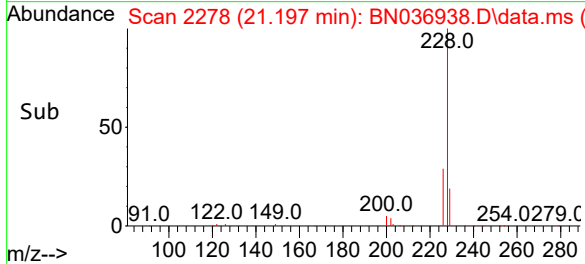
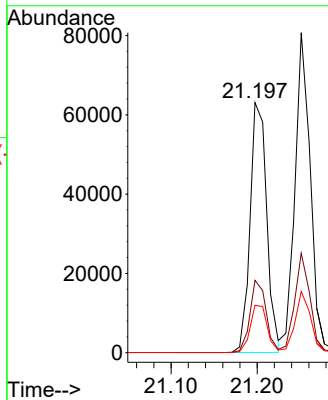
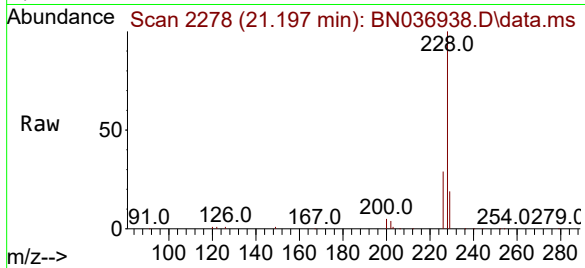




#32
Benzo(a)anthracene
Concen: 3.434 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

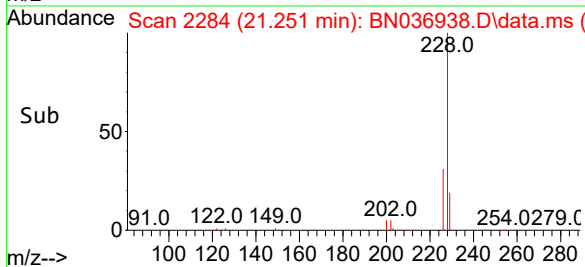
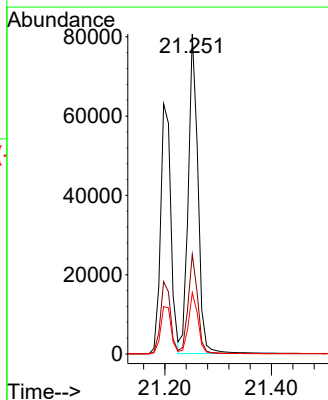
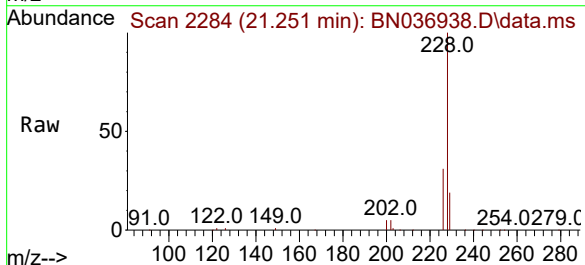
Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

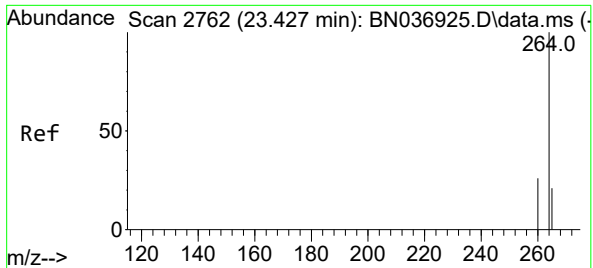
Tgt Ion:228 Resp: 84662
Ion Ratio Lower Upper
228 100
226 28.9 22.2 33.4
229 18.9 16.4 24.6



#33
Chrysene
Concen: 3.808 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

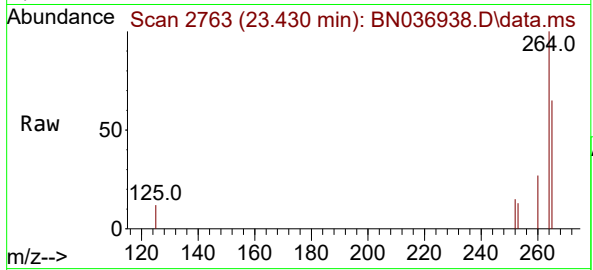
Tgt Ion:228 Resp: 101268
Ion Ratio Lower Upper
228 100
226 31.1 25.5 38.3
229 19.2 16.5 24.7



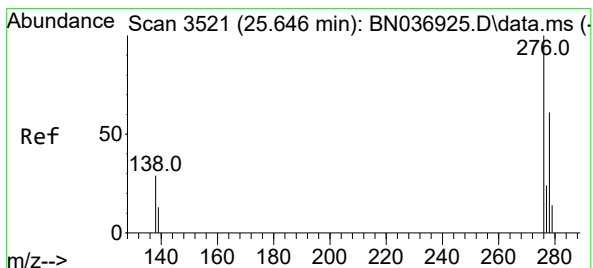
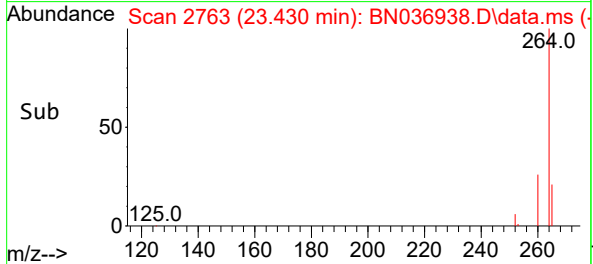
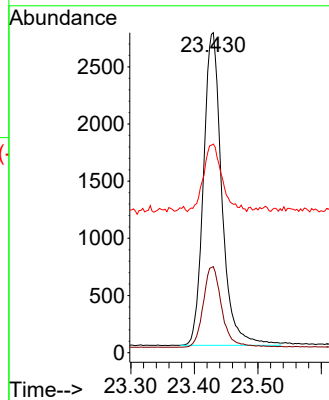


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Instrument :
BNA_N
ClientSampleId :
38072-010925DL2

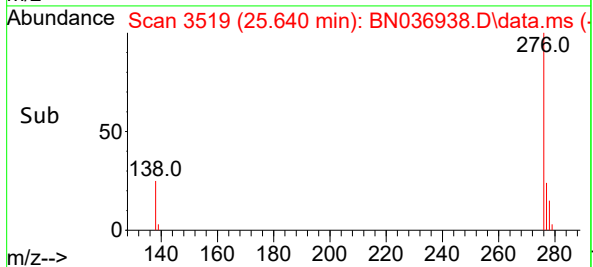
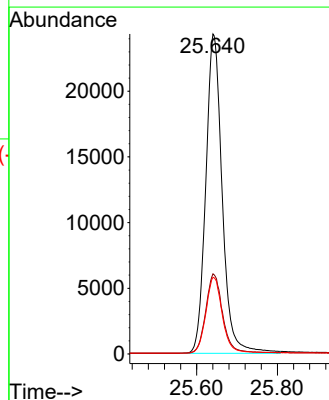
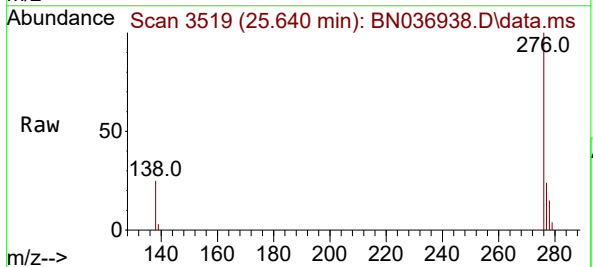


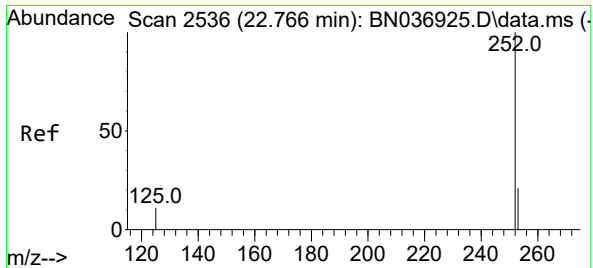
Tgt Ion:264 Resp: 5501
Ion Ratio Lower Upper
264 100
260 26.9 22.2 33.2
265 65.2 65.8 98.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.058 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036938.D
Acq: 29 Apr 2025 14:17

Tgt Ion:276 Resp: 68690
Ion Ratio Lower Upper
276 100
138 25.6 23.0 34.6
277 24.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 2.750 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

Instrument :

BNA_N

ClientSampleId :

38072-010925DL2

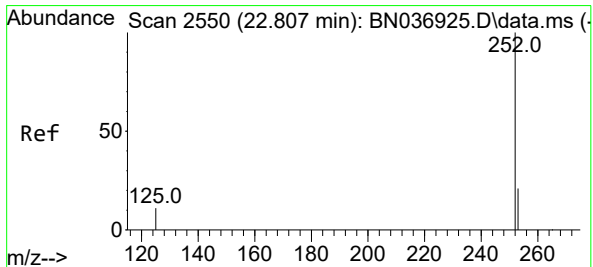
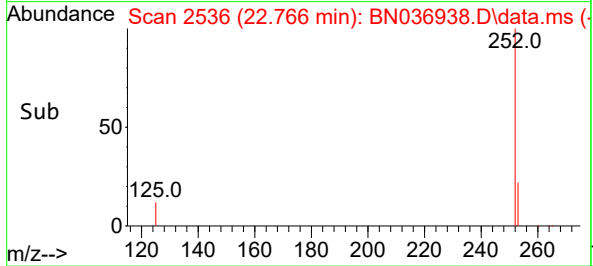
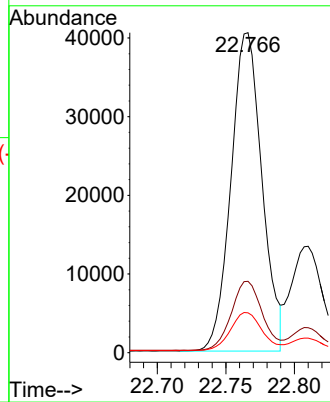
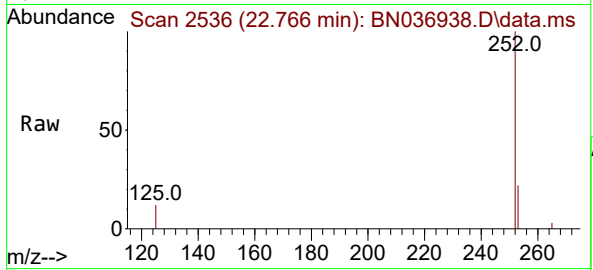
Tgt Ion:252 Resp: 63619

Ion Ratio Lower Upper

252 100

253 22.3 22.1 33.1

125 12.5 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 0.917 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

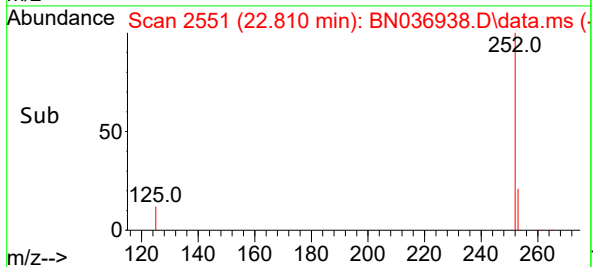
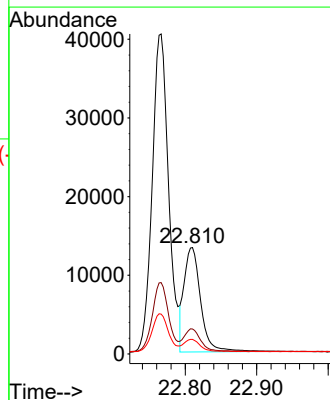
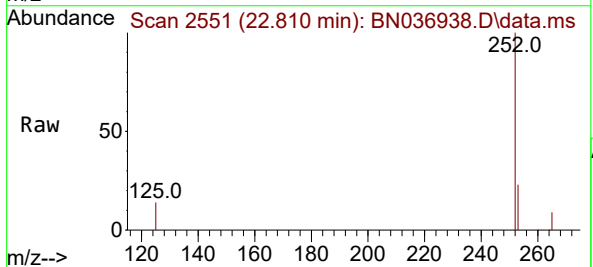
Tgt Ion:252 Resp: 21335

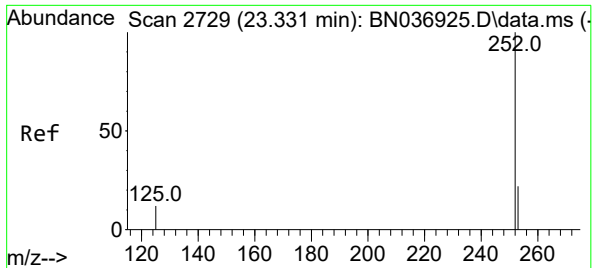
Ion Ratio Lower Upper

252 100

253 23.4 22.8 34.2

125 13.7 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.655 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

Instrument :

BNA_N

ClientSampleId :

38072-010925DL2

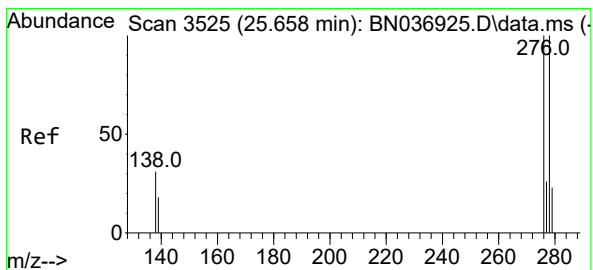
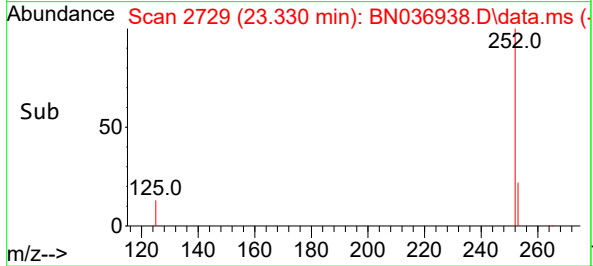
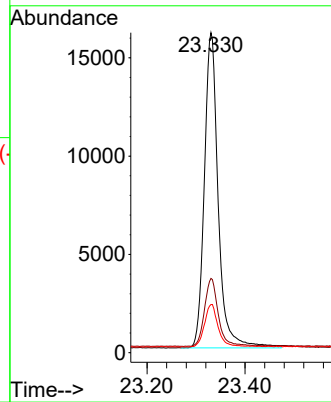
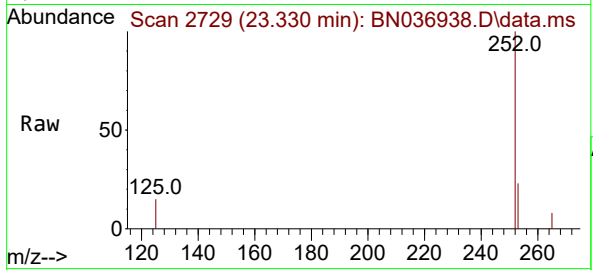
Tgt Ion:252 Resp: 31475

Ion Ratio Lower Upper

252 100

253 23.2 25.9 38.9#

125 15.1 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.920 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036938.D

Acq: 29 Apr 2025 14:17

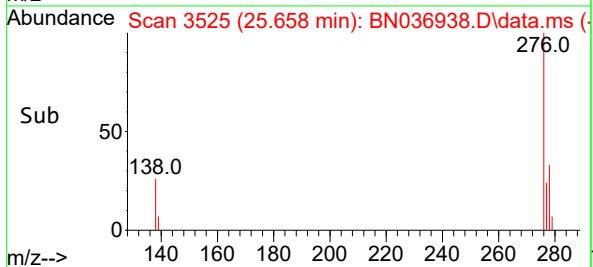
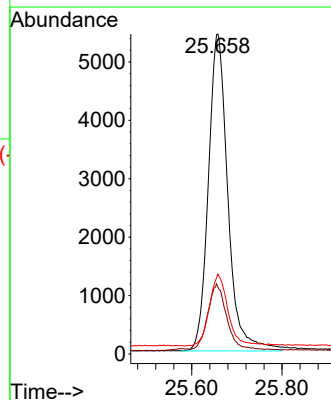
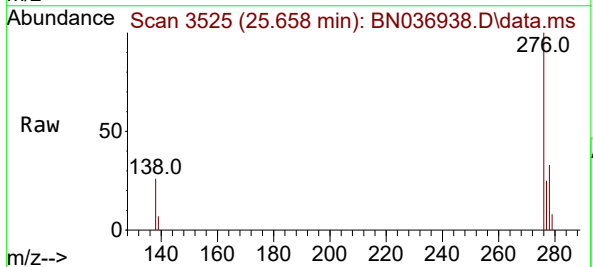
Tgt Ion:278 Resp: 16267

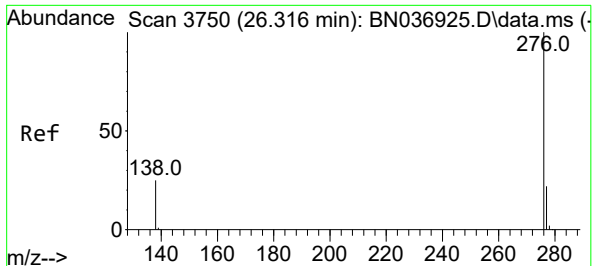
Ion Ratio Lower Upper

278 100

139 21.0 17.4 26.2

279 25.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.849 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036938.D

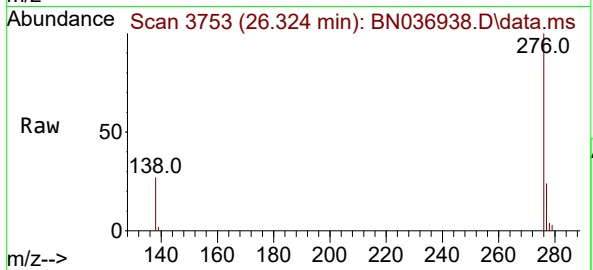
Acq: 29 Apr 2025 14:17

Instrument :

BNA_N

ClientSampleId :

38072-010925DL2



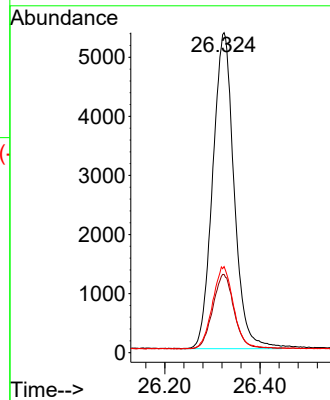
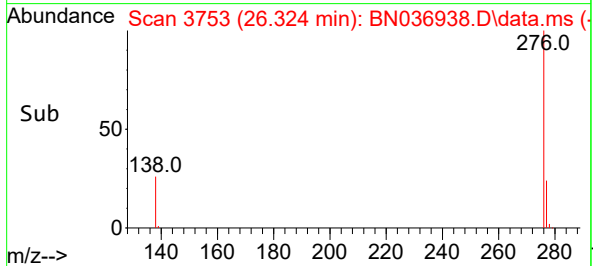
Tgt Ion:276 Resp: 16655

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.2

138 26.9 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036934.D
Acq On : 29 Apr 2025 09:53
Operator : RC/JU
Sample : PB167728BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167728BL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Apr 29 10:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2379	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5573	0.400	ng	# 0.00
13) Acenaphthene-d10	14.277	164	2873	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5718	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4280	0.400	ng	0.00
35) Perylene-d12	23.424	264	3789	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	2056	0.338	ng	0.00
5) Phenol-d6	6.809	99	2289	0.306	ng	0.00
8) Nitrobenzene-d5	8.781	82	1914	0.328	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	2522	0.324	ng	0.01
14) 2,4,6-Tribromophenol	15.780	330	349	0.273	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	4916	0.354	ng	0.00
27) Fluoranthene-d10	19.059	212	5308	0.358	ng	0.00
31) Terphenyl-d14	19.667	244	3694	0.366	ng	0.00

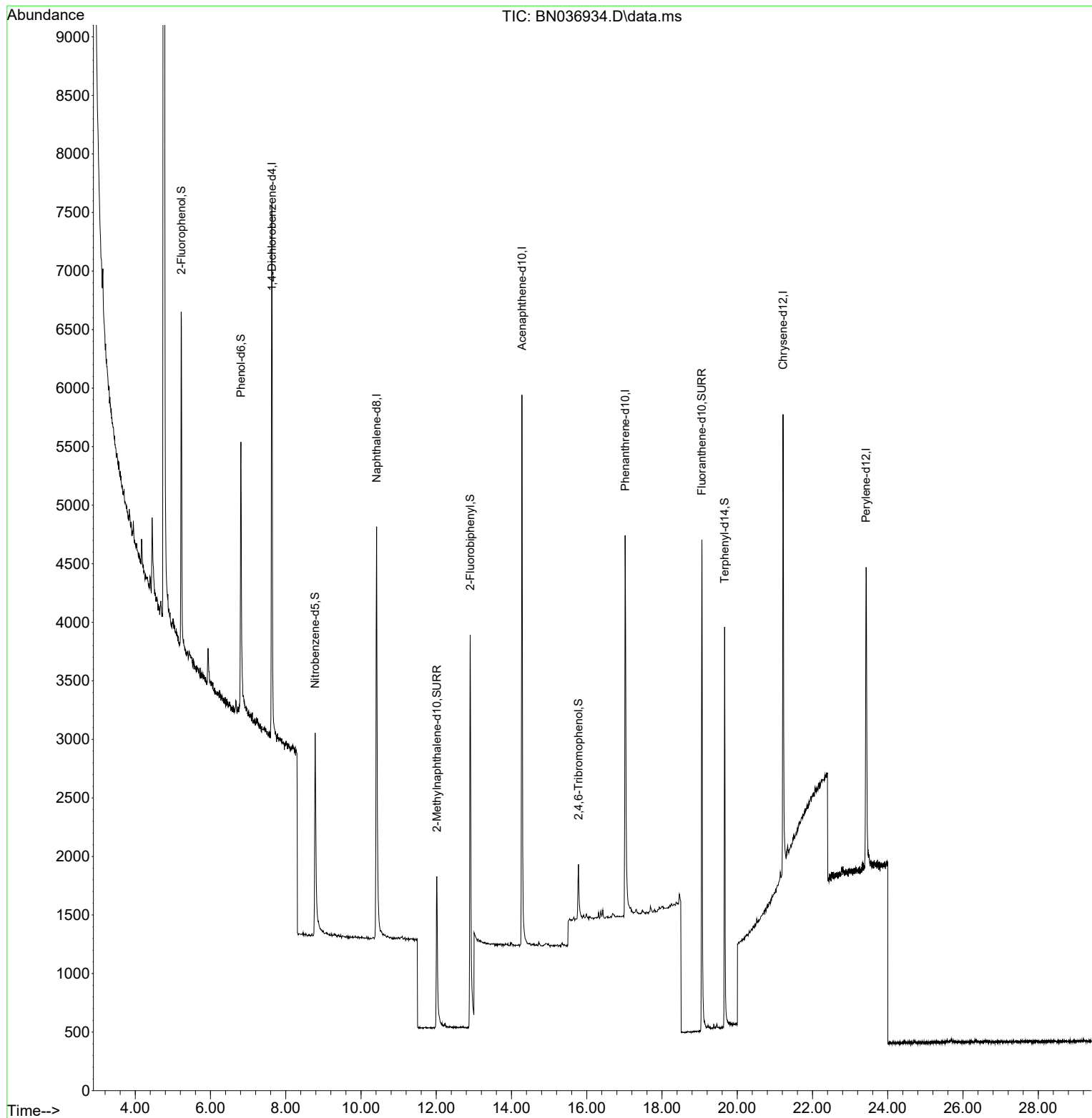
Target Compounds	Qvalue
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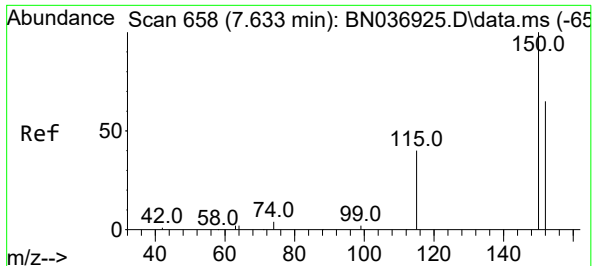
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036934.D
Acq On : 29 Apr 2025 09:53
Operator : RC/JU
Sample : PB167728BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167728BL

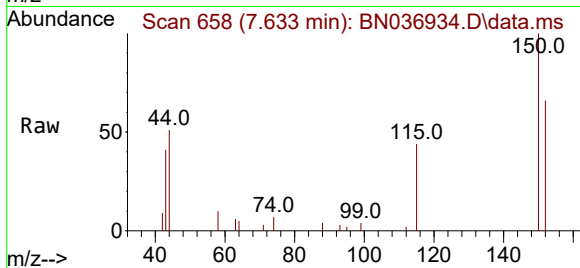
Quant Time: Apr 29 10:49:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



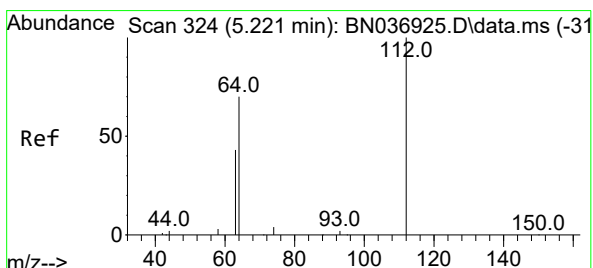
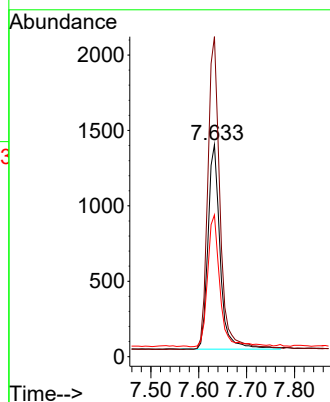
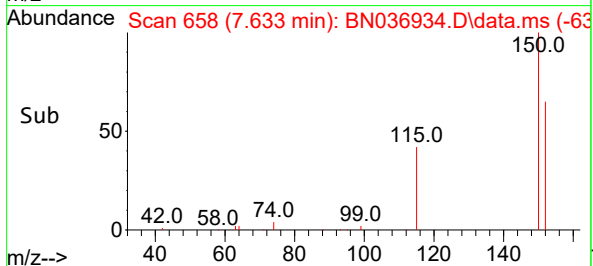


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

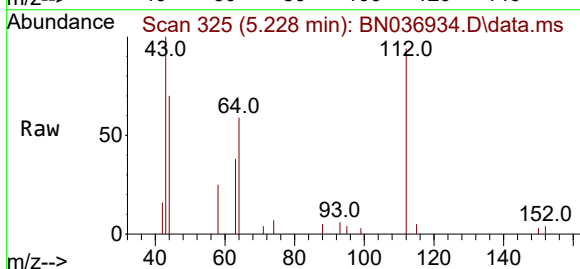
Instrument :
BNA_N
ClientSampleId :
PB167728BL



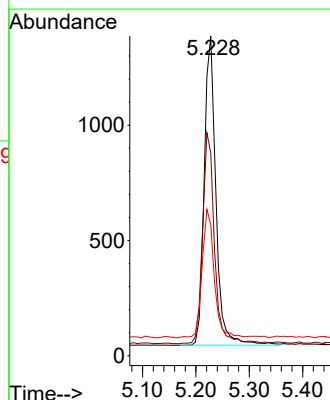
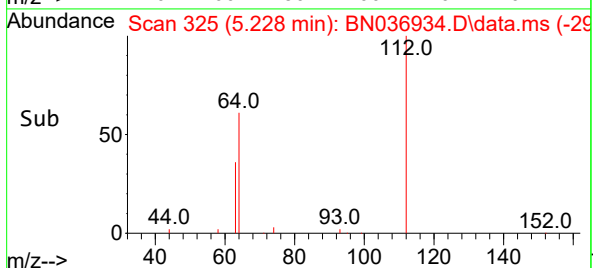
Tgt Ion:152 Resp: 2379
Ion Ratio Lower Upper
152 100
150 150.9 121.1 181.7
115 66.9 51.8 77.6

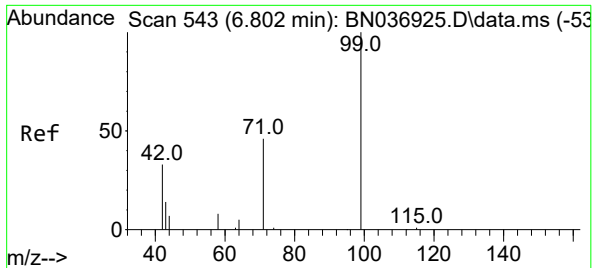


#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.007 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53



Tgt Ion:112 Resp: 2056
Ion Ratio Lower Upper
112 100
64 68.1 55.7 83.5
63 42.8 33.9 50.9

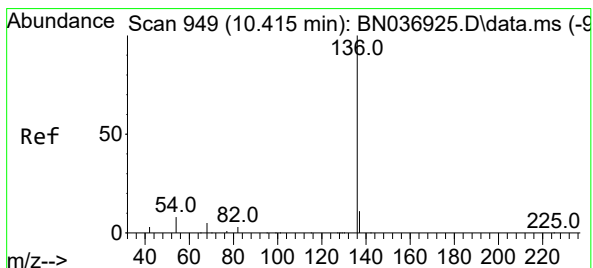
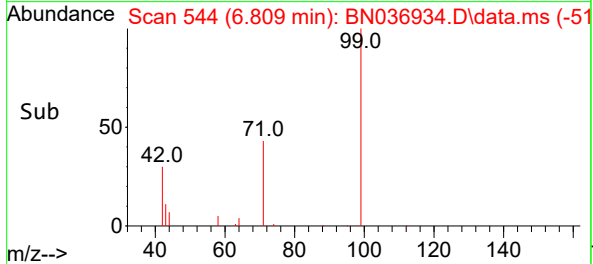
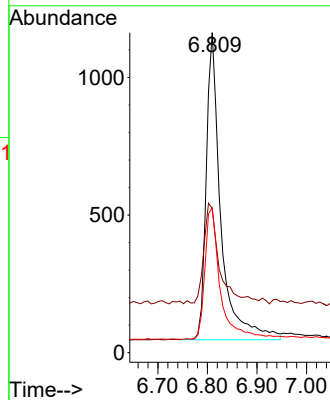
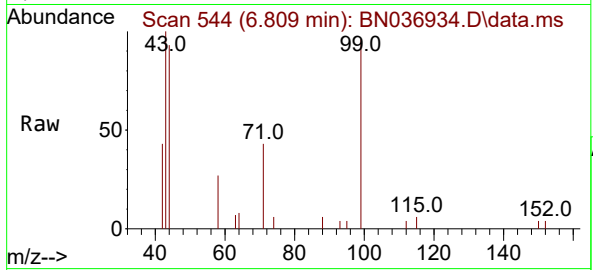




#5
Phenol-d6
Concen: 0.306 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

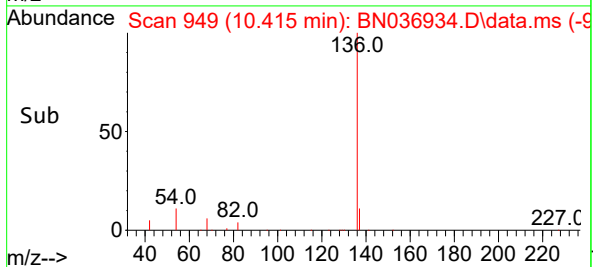
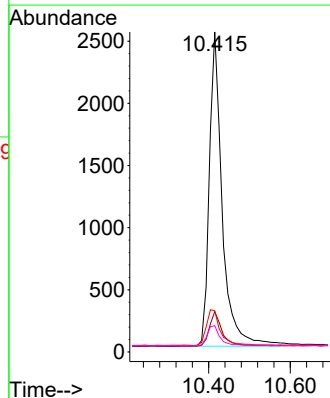
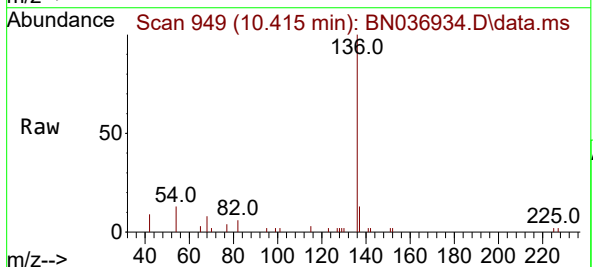
Instrument :
BNA_N
ClientSampleId :
PB167728BL

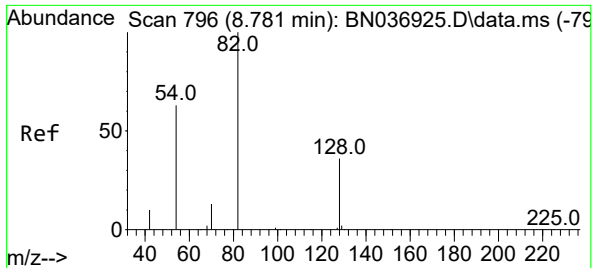
Tgt Ion: 99 Resp: 2289
Ion Ratio Lower Upper
99 100
42 36.1 29.6 44.4
71 45.8 36.0 54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion: 136 Resp: 5573
Ion Ratio Lower Upper
136 100
137 12.6 9.7 14.5
54 12.9 8.0 12.0#
68 8.2 5.1 7.7#

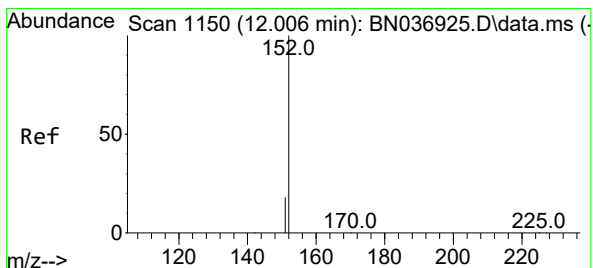
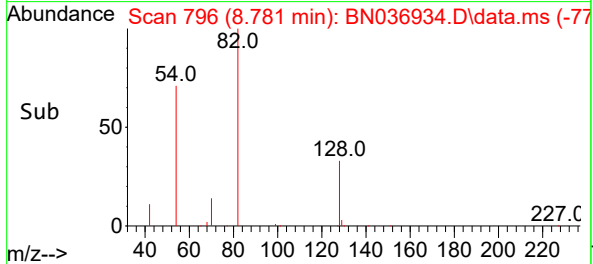
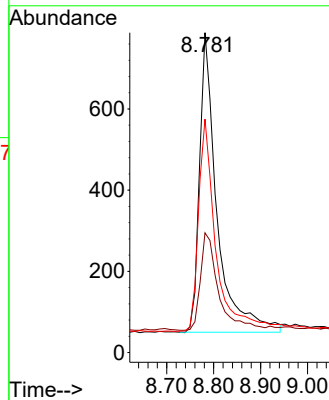
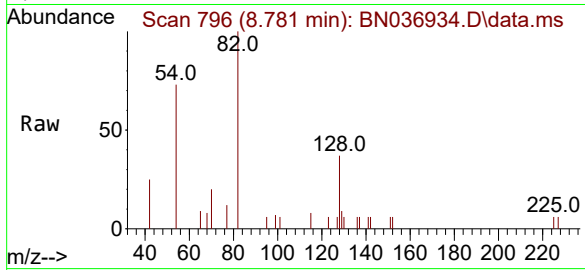




#8
Nitrobenzene-d5
Concen: 0.328 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

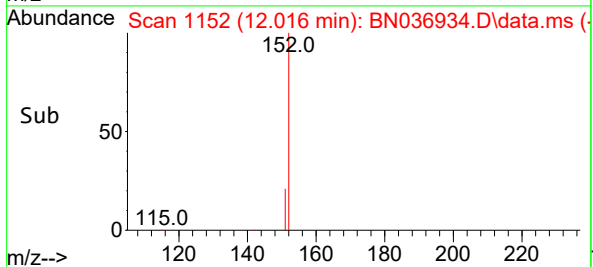
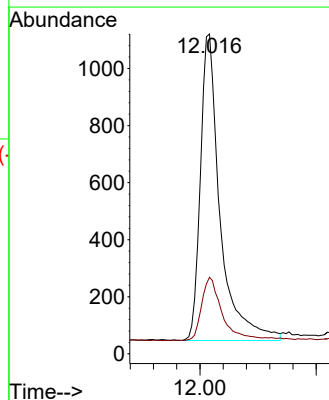
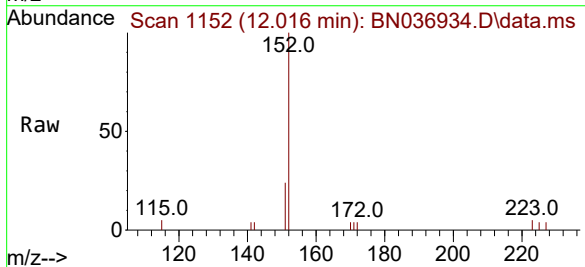
Instrument :
BNA_N
ClientSampleId :
PB167728BL

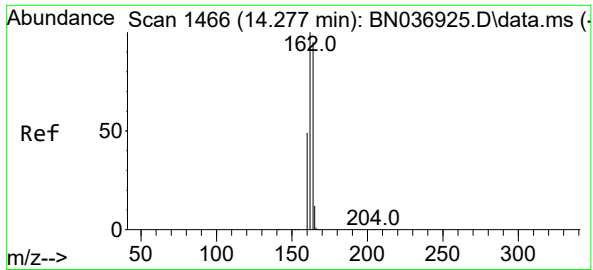
Tgt Ion: 82 Resp: 1914
Ion Ratio Lower Upper
82 100
128 37.4 30.7 46.1
54 73.0 52.1 78.1



#11
2-Methylnaphthalene-d10
Concen: 0.324 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.010 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion: 152 Resp: 2522
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3

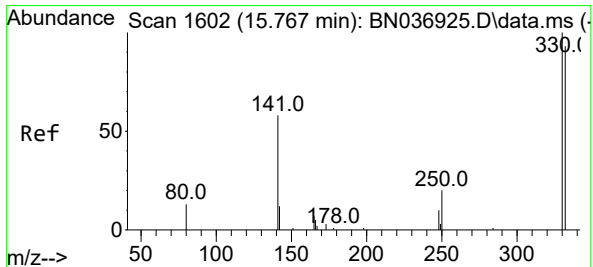
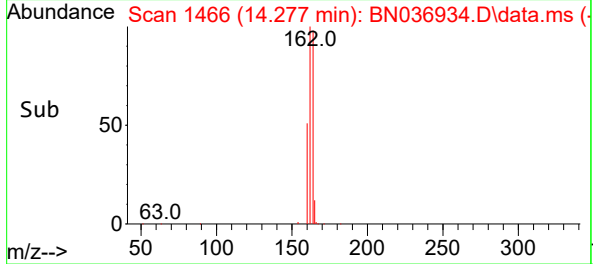
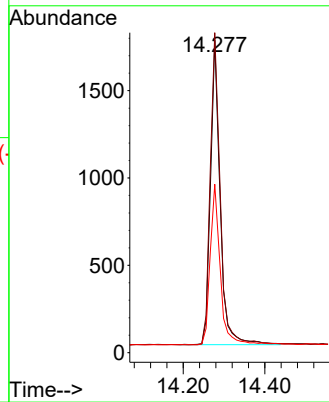
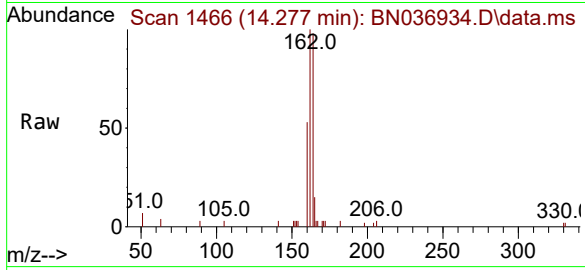




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

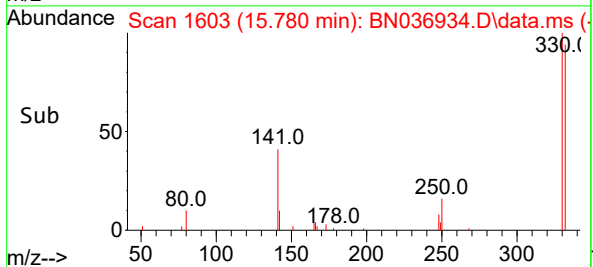
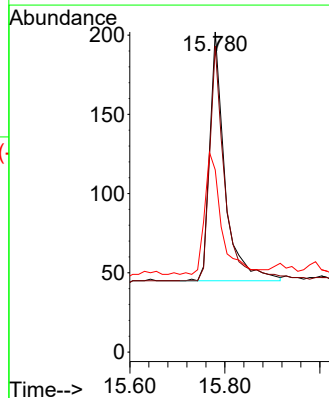
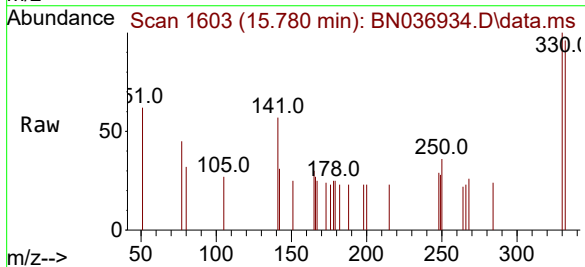
Instrument :
BNA_N
ClientSampleId :
PB167728BL

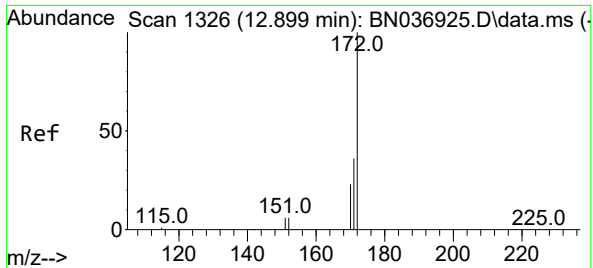
Tgt Ion:	164	Resp:	2873
Ion	Ratio	Lower	Upper
164	100		
162	102.4	83.8	125.8
160	53.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:	330	Resp:	349
Ion	Ratio	Lower	Upper
330	100		
332	94.0	76.3	114.5
141	54.2	45.4	68.2





#15

2-Fluorobiphenyl

Concen: 0.354 ng

RT: 12.904 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

Instrument :

BNA_N

ClientSampleId :

PB167728BL

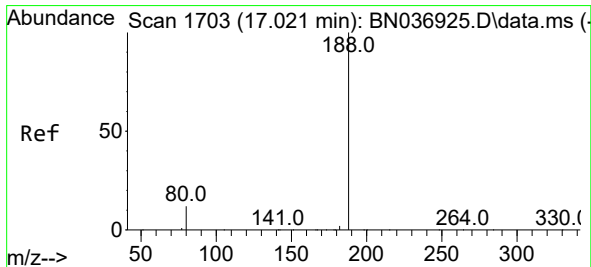
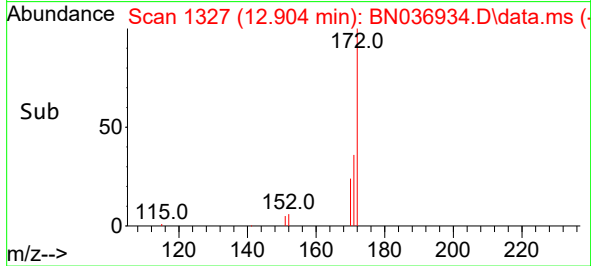
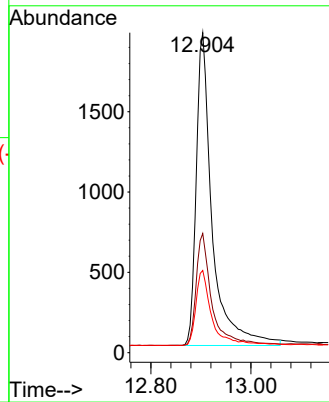
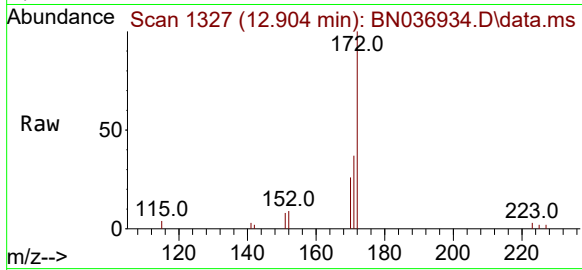
Tgt Ion:172 Resp: 4916

Ion Ratio Lower Upper

172 100

171 37.2 29.4 44.0

170 25.7 19.4 29.0



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1703

Delta R.T. -0.000 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

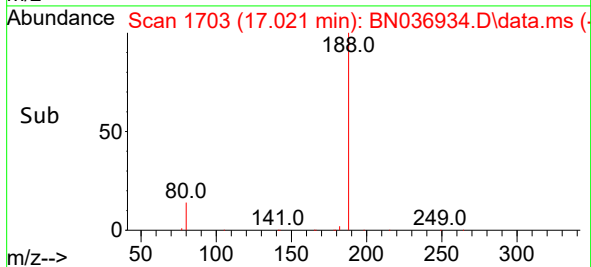
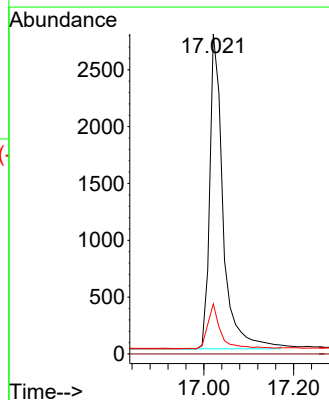
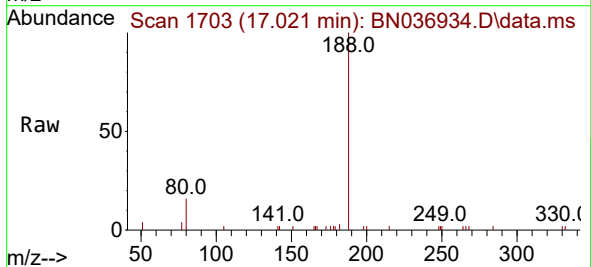
Tgt Ion:188 Resp: 5718

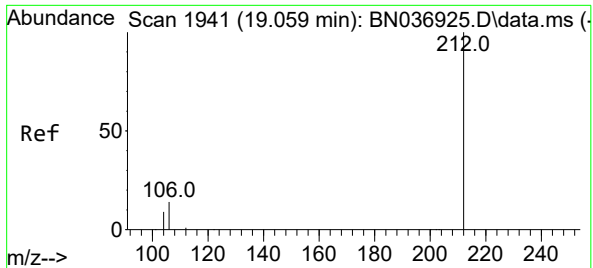
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 10.7 16.1





#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

Instrument :

BNA_N

ClientSampleId :

PB167728BL

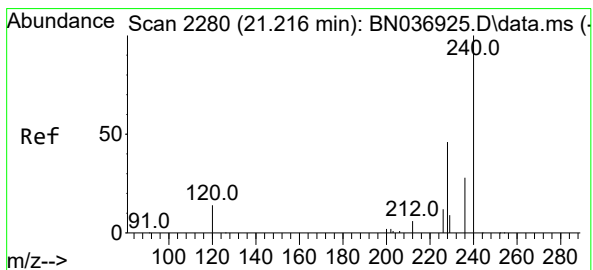
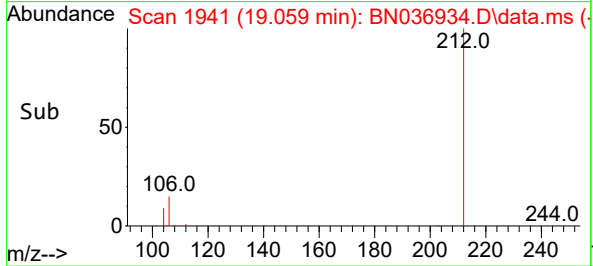
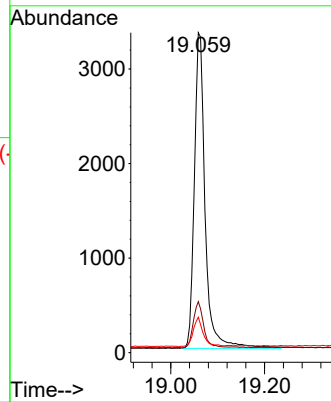
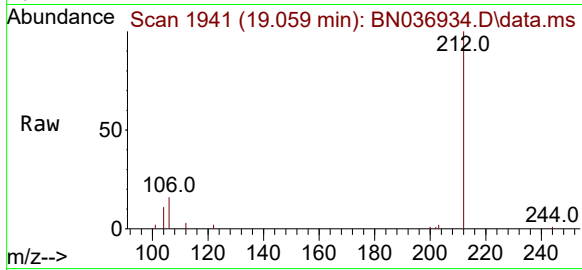
Tgt Ion:212 Resp: 5308

Ion Ratio Lower Upper

212 100

106 14.0 11.6 17.4

104 8.8 7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 2280

Delta R.T. -0.000 min

Lab File: BN036934.D

Acq: 29 Apr 2025 09:53

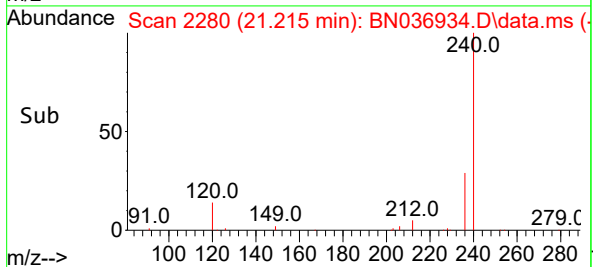
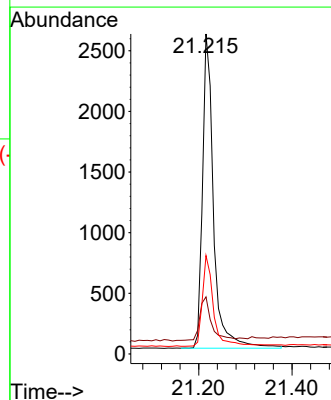
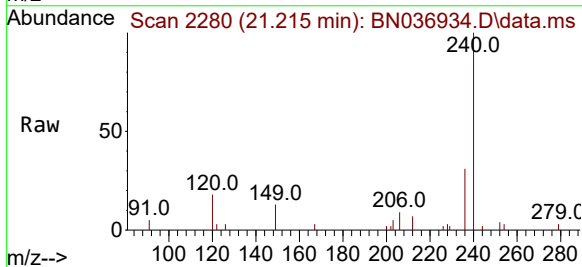
Tgt Ion:240 Resp: 4280

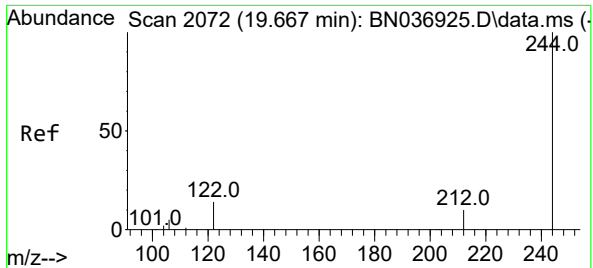
Ion Ratio Lower Upper

240 100

120 17.8 14.1 21.1

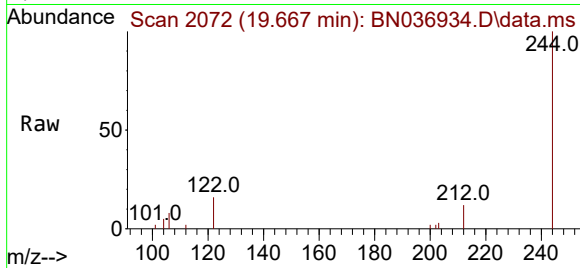
236 30.8 23.8 35.8



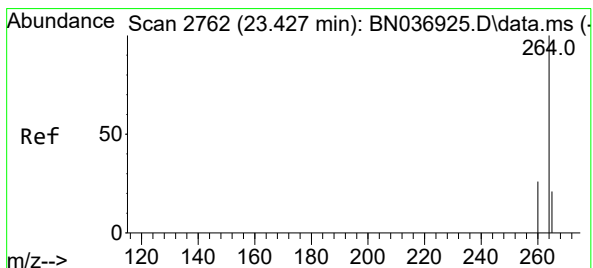
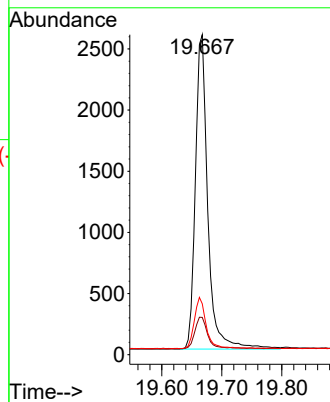


#31
Terphenyl-d14
Concen: 0.366 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Instrument :
BNA_N
ClientSampleId :
PB167728BL

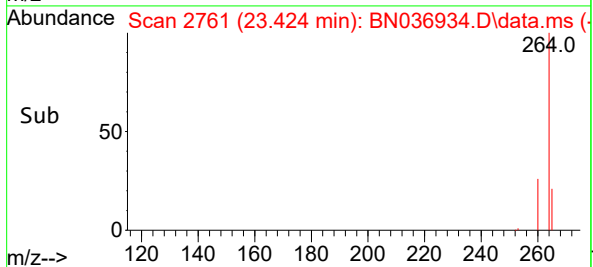
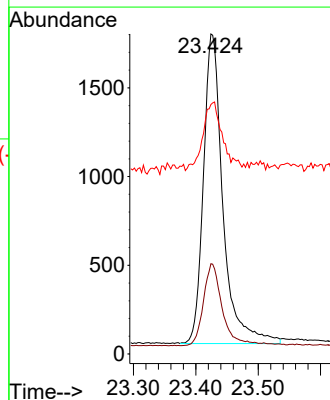
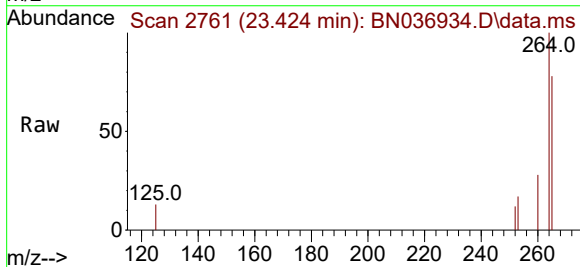


Tgt Ion:244 Resp: 3694
Ion Ratio Lower Upper
244 100
212 11.6 9.6 14.4
122 15.9 12.7 19.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 2761
Delta R.T. -0.003 min
Lab File: BN036934.D
Acq: 29 Apr 2025 09:53

Tgt Ion:264 Resp: 3789
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 77.9 65.8 98.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
 Data File : BN036939.D
 Acq On : 29 Apr 2025 14:54
 Operator : RC/JU
 Sample : PB167728BS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB167728BS

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025

Quant Time: Apr 29 17:05:30 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Mon Apr 28 15:35:03 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2630	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6464	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3313	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6630	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4615	0.400	ng	0.00
35) Perylene-d12	23.427	264	3648	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	2288	0.340	ng	0.00
5) Phenol-d6	6.802	99	2763	0.334	ng	0.00
8) Nitrobenzene-d5	8.781	82	2355	0.348	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3375m	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	425	0.288	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	5876	0.367	ng	0.00
27) Fluoranthene-d10	19.059	212	5638	0.328	ng	0.00
31) Terphenyl-d14	19.667	244	3891	0.357	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.148	88	987	0.301	ng	# 29
3) n-Nitrosodimethylamine	3.458	42	2316	0.364	ng	# 96
6) bis(2-Chloroethyl)ether	7.062	93	2793	0.364	ng	100
9) Naphthalene	10.458	128	6723	0.357	ng	99
10) Hexachlorobutadiene	10.746	225	1495	0.367	ng	# 98
12) 2-Methylnaphthalene	12.082	142	4170	0.343	ng	99
16) Acenaphthylene	13.989	152	5922	0.366	ng	100
17) Acenaphthene	14.341	154	3799	0.357	ng	100
18) Fluorene	15.325	166	4845	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	500	0.285	ng	# 84
21) 4-Bromophenyl-phenylether	16.227	248	1453	0.328	ng	97
22) Hexachlorobenzene	16.338	284	1684	0.347	ng	99
23) Atrazine	16.500	200	1212	0.339	ng	100
24) Pentachlorophenol	16.673	266	1129	0.434	ng	98
25) Phenanthrene	17.058	178	7651	0.350	ng	100
26) Anthracene	17.158	178	6917	0.349	ng	99
28) Fluoranthene	19.091	202	8047	0.328	ng	99
30) Pyrene	19.454	202	8127	0.366	ng	100
32) Benzo(a)anthracene	21.206	228	6248	0.368	ng	99
33) Chrysene	21.251	228	6782	0.370	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	3141	0.325	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	5275	0.354	ng	98
37) Benzo(b)fluoranthene	22.769	252	5467	0.356	ng	98
38) Benzo(k)fluoranthene	22.810	252	5750	0.373	ng	99
39) Benzo(a)pyrene	23.333	252	4786	0.380	ng	98
40) Dibenzo(a,h)anthracene	25.661	278	4085	0.348	ng	97
41) Benzo(g,h,i)perylene	26.324	276	4245	0.326	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042925\
Data File : BN036939.D
Acq On : 29 Apr 2025 14:54
Operator : RC/JU
Sample : PB167728BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB167728BS

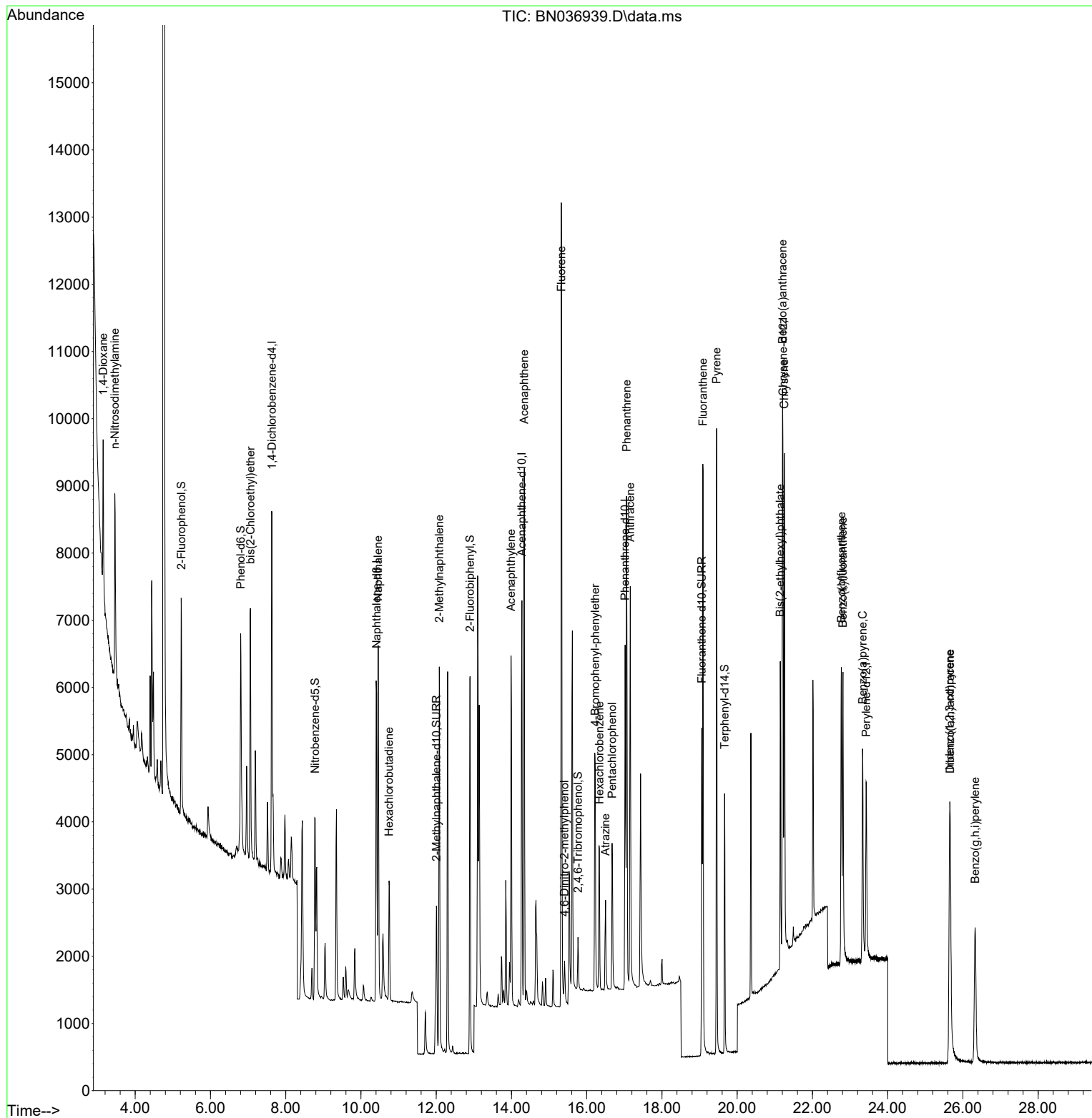
Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/30/2025

Supervised By :Jagrut Upadhyay 04/30/2025

Quant Time: Apr 29 17:05:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	BN042825	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036923.D	1,4-Dioxane	Rahul	4/29/2025 8:53:49 AM	Jagrut	4/29/2025 11:57:36 AM	Peak Integrated by Software
SSTDICC0.2	BN036924.D	1,4-Dioxane	Rahul	4/29/2025 8:53:52 AM	Jagrut	4/29/2025 11:57:39 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	BN042925	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167728BS	BN036939.D	2-Methylnaphthalene-d10	Rahul	4/30/2025 11:37:30 AM	Jagrut	4/30/2025 12:40:19 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036922.D	28 Apr 2025 10:56	RC/JU	Ok
2	SSTDIC0.1	BN036923.D	28 Apr 2025 11:35	RC/JU	Ok,M
3	SSTDIC0.2	BN036924.D	28 Apr 2025 12:11	RC/JU	Ok,M
4	SSTDIC0.4	BN036925.D	28 Apr 2025 12:47	RC/JU	Ok
5	SSTDIC0.8	BN036926.D	28 Apr 2025 13:24	RC/JU	Ok
6	SSTDIC1.6	BN036927.D	28 Apr 2025 14:00	RC/JU	Ok
7	SSTDIC3.2	BN036928.D	28 Apr 2025 14:36	RC/JU	Ok
8	SSTDIC5.0	BN036929.D	28 Apr 2025 15:12	RC/JU	Ok
9	SSTDICV0.4	BN036930.D	28 Apr 2025 15:51	RC/JU	Ok
10	PB167430BL	BN036931.D	28 Apr 2025 17:39	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN042925

Review By	Rahul	Review On	4/30/2025 11:39:11 AM
Supervise By	Jagrut	Supervise On	5/7/2025 1:59:53 PM
SubDirectory	BN042925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036932.D	29 Apr 2025 08:38	RC/JU	Ok
2	SSTDCCC0.4	BN036933.D	29 Apr 2025 09:17	RC/JU	Ok
3	PB167728BL	BN036934.D	29 Apr 2025 09:53	RC/JU	Ok
4	Q1502-21DL	BN036935.D	29 Apr 2025 10:46	RC/JU	Ok
5	Q1870-01	BN036936.D	29 Apr 2025 13:05	RC/JU	Dilution
6	Q1870-01DL	BN036937.D	29 Apr 2025 13:41	RC/JU	Dilution
7	Q1870-01DL2	BN036938.D	29 Apr 2025 14:17	RC/JU	Ok
8	PB167728BS	BN036939.D	29 Apr 2025 14:54	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036922.D	28 Apr 2025 10:56		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	Compound#20 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12		RC/JU	Ok
9	SSTDICV0.4	ICVBN042825	BN036930.D	28 Apr 2025 15:51		RC/JU	Ok
10	PB167430BL	PB167430BL	BN036931.D	28 Apr 2025 17:39	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042925

Review By	Rahul	Review On	4/30/2025 11:39:11 AM
Supervise By	Jagrut	Supervise On	5/7/2025 1:59:53 PM
SubDirectory	BN042925	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036932.D	29 Apr 2025 08:38		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036933.D	29 Apr 2025 09:17		RC/JU	Ok
3	PB167728BL	PB167728BL	BN036934.D	29 Apr 2025 09:53		RC/JU	Ok
4	Q1502-21DL	RR-PAH-WPDL	BN036935.D	29 Apr 2025 10:46		RC/JU	Ok
5	Q1870-01	38072-010925	BN036936.D	29 Apr 2025 13:05	PT Sample, Need 50X Dilution	RC/JU	Dilution
6	Q1870-01DL	38072-010925DL	BN036937.D	29 Apr 2025 13:41	Need 500X dilution	RC/JU	Dilution
7	Q1870-01DL2	38072-010925DL2	BN036938.D	29 Apr 2025 14:17		RC/JU	Ok
8	PB167728BS	PB167728BS	BN036939.D	29 Apr 2025 14:54		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RJ

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3880 **Hood ID:** 4,6,7

Extraction Start Date : 04/24/2025

Extraction Start Time : 12:05

Extraction End Date : 04/24/2025

Extraction End Time : 17:00

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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6758
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3926
Baked Na2SO4	N/A	EP2604
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1 **Envap ID:** NEVAP-02

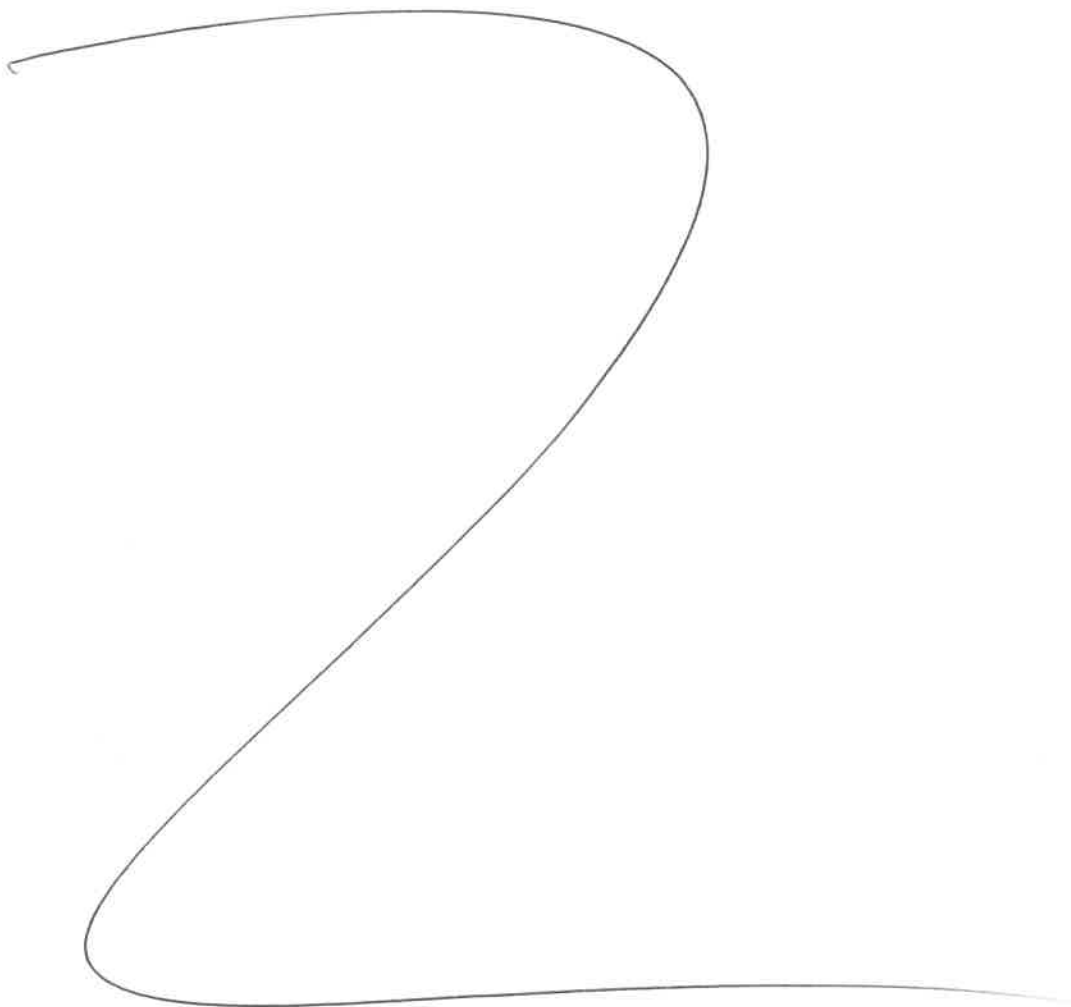
KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
4/24/25	RS (Ext Lab)	JH / SVOC
17:05	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/24/2025

Sample ID	Client Sample ID	Test	g / <u>mL</u>	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167728BL	SBLK728	SVOCMS Group5	1000	6	RUPESH	ritesh	1			SEP-1
PB167728BS	SLCS728	SVOCMS Group5	1000	6	RUPESH	ritesh	1			2
Q1870-01	38072-010925	SVOCMS Group5	1000	6	RUPESH	ritesh	1			3



RS
4/24

167708 NW
12:05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1870 WorkList ID : 189128 Department : Extraction Date : 04-24-2025 12:02:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1870-01	38072-010925	Water	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1870-03	38073-100124	Water	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	04/22/2025	8270E

Date/Time 4/24/25 12:03
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: SJ (QA)

Date/Time NA
Raw Sample Received by: NA
Raw Sample Relinquished by: NA



