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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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LAB CHRONICLE

OrderID:	P5166	**OrderDate:**	12/6/2024 1:09:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5166-04	**RW5-SP100-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5166-04DL	**RW5-SP100-20241206DL**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/10/24	
P5166-05	**RW5-SP201-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	
P5166-06	**RW5-SP303-20241206**	**Water**			**12/06/24**			**12/06/24**
			SVOC-SIMGroup1	8270-Modified		12/09/24	12/09/24	

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Hit Summary Sheet
SW-846

SDG No.: P5166

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : RW5-SP100-20241206									
P5166-04	RW5-SP100-20241206	WATER	1,4-Dioxane	8.400	E	0.07	0.2	0.2	ug/L
			Total Svoc :	**8.40**					
			Total Concentration:	**8.40**					
Client ID : RW5-SP100-20241206DL									
P5166-04DL	RW5-SP100-20241206DI	WATER	1,4-Dioxane	8.800	D	0.34	1	1	ug/L
			Total Svoc :	**8.80**					
			Total Concentration:	**8.80**					

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P5166

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P5166-04	RW5-SP100-20241206	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.37	94		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
P5166-04DL	RW5-SP100-20241206DL	2-Methylnaphthalene-d10	0.4	0.35	86		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
P5166-05	RW5-SP201-20241206	2-Methylnaphthalene-d10	0.4	0.37	94		30	150
		Fluoranthene-d10	0.4	0.44	110		30	150
		Nitrobenzene-d5	0.4	0.39	98		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.66	165	*	58	132
P5166-06	RW5-SP303-20241206	2-Methylnaphthalene-d10	0.4	0.45	112		30	150
		Fluoranthene-d10	0.4	0.52	129		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.74	184	*	58	132
PB165497BL	PB165497BL	2-Methylnaphthalene-d10	0.4	0.46	114		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.45	113	*	55	111
		2-Fluorobiphenyl	0.4	0.43	106		53	106
		Terphenyl-d14	0.4	0.56	141	*	58	132
PB165497BS	PB165497BS	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.40	101		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB165497BSD	PB165497BSD	2-Methylnaphthalene-d10	0.4	0.53	133		30	150
		Fluoranthene-d10	0.4	0.37	91		30	150
		Nitrobenzene-d5	0.4	0.43	107		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.48	119		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5166

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035528.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165497BS	1,4-Dioxane	0.4	0.36	ug/L	90				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5166

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035529.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165497BSD	1,4-Dioxane	0.4	0.35	ug/L	88	3			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165497BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG NO.: P5166

Lab File ID: BN035511.D Lab Sample ID: PB165497BL

Instrument ID: BNA_N Date Extracted: 12/09/2024

Matrix: (soil/water) Water Date Analyzed: 12/09/2024

Level: (low/med) LOW Time Analyzed: 17:43

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
RW5-SP303-20241206	P5166-06	BN035519.D	12/09/2024
PB165497BS	PB165497BS	BN035528.D	12/10/2024
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024
RW5-SP100-20241206	P5166-04	BN035517.D	12/09/2024
RW5-SP201-20241206	P5166-05	BN035518.D	12/09/2024

COMMENTS:

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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5166 SDG NO.: P5166

Lab File ID: BN035349.D DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
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	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN035350.D	11/27/2024	15:34
SSTDICC0.2	SSTDICC0.2	BN035351.D	11/27/2024	16:10
SSTDICCC0.4	SSTDICCC0.4	BN035352.D	11/27/2024	16:46
SSTDICC0.8	SSTDICC0.8	BN035353.D	11/27/2024	17:21
SSTDICC1.6	SSTDICC1.6	BN035354.D	11/27/2024	17:57
SSTDICC3.2	SSTDICC3.2	BN035355.D	11/27/2024	18:33
SSTDICC5.0	SSTDICC5.0	BN035356.D	11/27/2024	19:09

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5166 SDG NO.: P5166

Lab File ID: BN035509.D DFTPP Injection Date: 12/09/2024

Instrument ID: BNA_N DFTPP Injection Time: 16:28

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.4
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	41.6
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	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	9.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (18.8) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035510.D	12/09/2024	17:07
PB165497BL	PB165497BL	BN035511.D	12/09/2024	17:43
RW5-SP100-20241206	P5166-04	BN035517.D	12/09/2024	21:19
RW5-SP201-20241206	P5166-05	BN035518.D	12/09/2024	21:55
RW5-SP303-20241206	P5166-06	BN035519.D	12/09/2024	22:31
SSTDCCC0.4EC	SSTDCCC0.4	BN035523.D	12/10/2024	00:55

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5166 SDG NO.: P5166

Lab File ID: BN035524.D DFTPP Injection Date: 12/10/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	33.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	41.8
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	7.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.2 (19.7) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035525.D	12/10/2024	09:33
RW5-SP100-20241206DL	P5166-04DL	BN035527.D	12/10/2024	10:45
PB165497BS	PB165497BS	BN035528.D	12/10/2024	11:21
PB165497BSD	PB165497BSD	BN035529.D	12/10/2024	12:03
SSTDCCC0.4EC	SSTDCCC0.4	BN035530.D	12/10/2024	12:40

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG NO.: P5166

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	1975	7.3	5582	10.04	4021	13.96
	UPPER LIMIT	3950	7.8	11164	10.541	8042	14.456
	LOWER LIMIT	987.5	6.8	2791	9.541	2010.5	13.456
	EPA SAMPLE NO.						
01	PB165497BL	1641	7.30	4578	10.05	3247	13.96
02	RW5-SP303-20241206	1257	7.30	3408	10.04	2615	13.96
03	RW5-SP100-20241206	1838	7.30	4853	10.04	3623	13.96
04	RW5-SP201-20241206	1759	7.30	4808	10.04	3560	13.96

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG NO.: P5166

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/09/2024

Lab File ID: BN035510.D Time Analyzed: 17:07

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	9077	16.723	8166	20.965	8385	23.059
	UPPER LIMIT	18154	17.223	16332	21.465	16770	23.559
	LOWER LIMIT	4538.5	16.223	4083	20.465	4192.5	22.559
	EPA SAMPLE NO.						
01	PB165497BL	7570	16.74	6431	20.97	6251	23.07
02	RW5-SP303-20241206	6478	16.72	5571	20.97	5305	23.07
03	RW5-SP100-20241206	9117	16.72	7610	20.97	7094	23.06
04	RW5-SP201-20241206	8364	16.72	7094	20.97	6747	23.06

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG NO.: P5166

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	2237	7.293	6161	10.04	4478	13.96
	UPPER LIMIT	4474	7.793	12322	10.541	8956	14.457
	LOWER LIMIT	1118.5	6.793	3080.5	9.541	2239	13.457
	EPA SAMPLE NO.						
01	PB165497BSD	1941	7.29	5150	10.04	3668	13.96
02	PB165497BS	1669	7.30	4431	10.04	3092	13.96
03	RW5-SP100-20241206DL	1780	7.30	4601	10.04	3512	13.96

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG NO.: P5166

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/10/2024

Lab File ID: BN035525.D Time Analyzed: 09:33

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	11122	16.723	9383	20.965	8820	23.059
	UPPER LIMIT	22244	17.223	18766	21.465	17640	23.559
	LOWER LIMIT	5561	16.223	4691.5	20.465	4410	22.559
	EPA SAMPLE NO.						
01	PB165497BSD	9298	16.72	7541	20.97	6738	23.06
02	PB165497BS	7959	16.72	6696	20.96	5945	23.06
03	RW5-SP100-20241206DL	9370	16.74	6994	20.97	6330	23.07

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

SAMPLE DATA

Raw Data: **BN035517.D**

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/06/24
Project:	CTO WE13	Date Received:	12/06/24
Client Sample ID:	RW5-SP100-20241206	SDG No.:	P5166
Lab Sample ID:	P5166-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035517.D	1	12/09/24 11:27	12/09/24 21:19	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.40	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.301				
1146-65-2	Naphthalene-d8	4850	10.041				
15067-26-2	Acenaphthene-d10	3620	13.957				
1517-22-2	Phenanthrene-d10	9120	16.723				
1719-03-5	Chrysene-d12	7610	20.965				
1520-96-3	Perylene-d12	7090	23.062				

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

Quantitation Report (QT Reviewed)

Sample Results: **BN035517.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035517.D
Acq On : 09 Dec 2024 21:19
Operator : RC/JU
Sample : P5166-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:28:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1838	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4853	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3623	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9117	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7610	0.400	ng	0.00
35) Perylene-d12	23.062	264	7094	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	595	0.129	ng	-0.01
5) Phenol-d6	6.506	99	377	0.068	ng	0.00
8) Nitrobenzene-d5	8.429	82	1110m	0.374	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2654	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	576	0.224	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4520	0.330	ng	0.00
27) Fluoranthene-d10	18.775	212	10401	0.402	ng	0.00
31) Terphenyl-d14	19.403	244	8300	0.553	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	14824	8.437	ng	95
6) bis(2-Chloroethyl)ether	6.745	93	275	0.059	ng	95
34) Bis(2-ethylhexyl)phtha...	20.920	149	708	0.067	ng	# 98

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

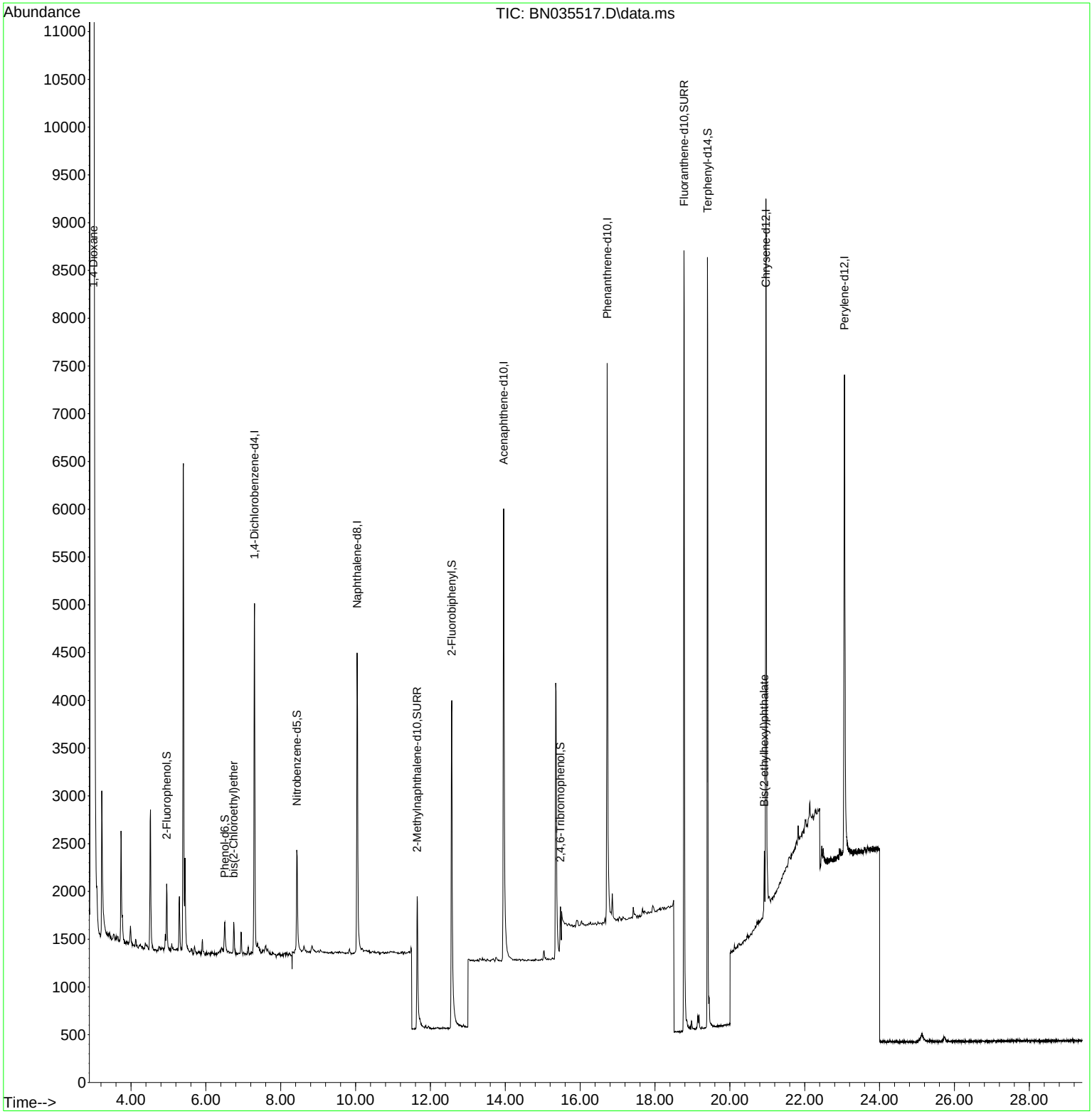
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035517.D
Acq On : 09 Dec 2024 21:19
Operator : RC/JU
Sample : P5166-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

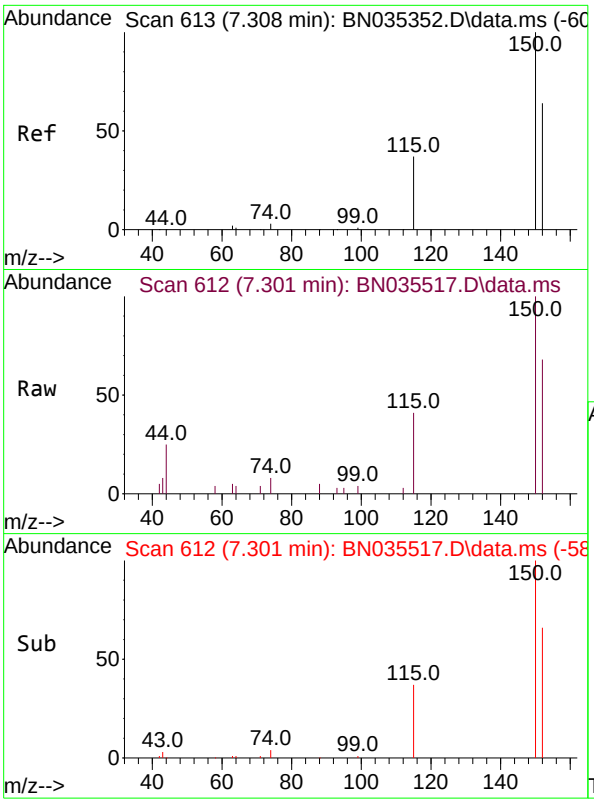
Quant Time: Dec 10 01:28:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

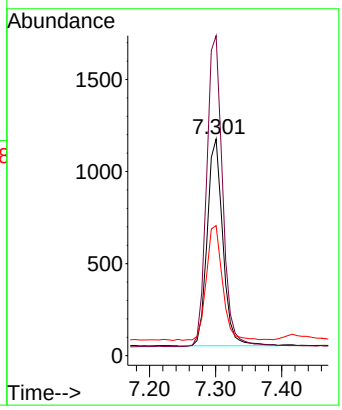




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:152 Resp: 183

Ion	Ratio	Lower	Upper
152	100		
150	147.7	124.0	186.0
115	60.1	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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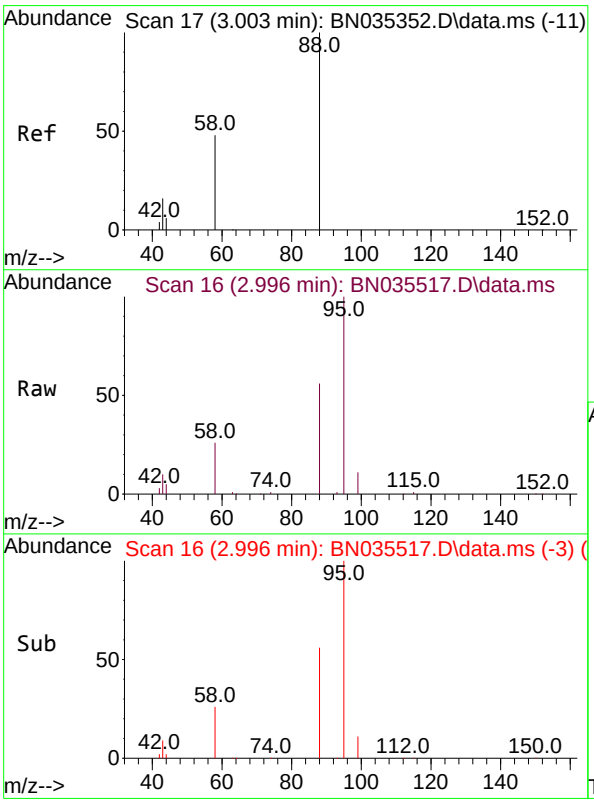
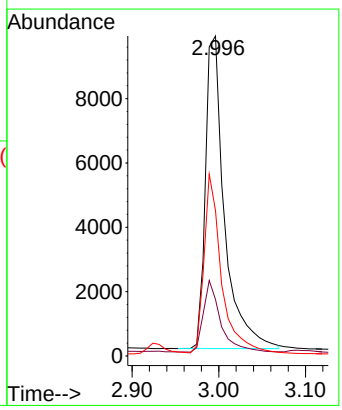
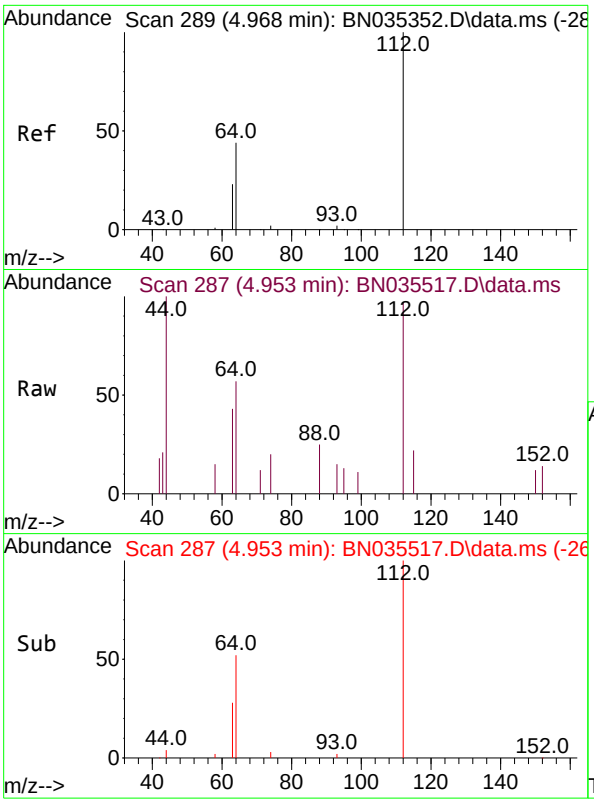


#2
1,4-Dioxane
Concen: 8.437 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 88 Resp: 14824

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	51.3	44.5	66.7





#4
2-Fluorophenol
Concen: 0.129 ng
RT: 4.953 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

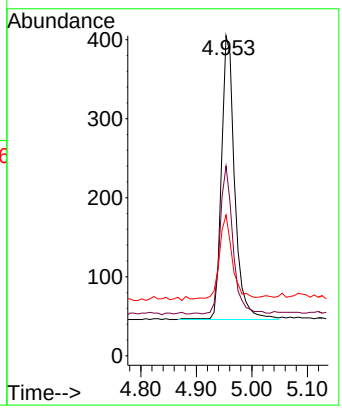
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

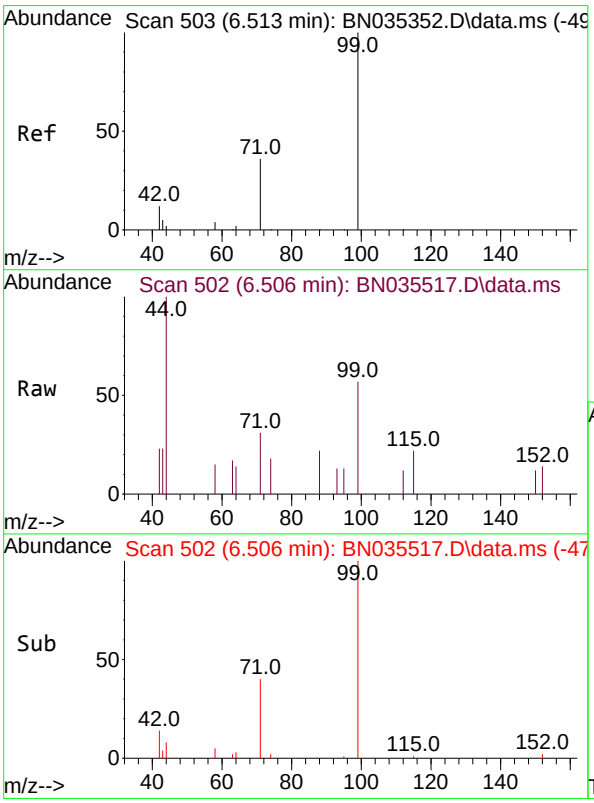
Tgt Ion:112 Resp: 59

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	28.4	21.0	31.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

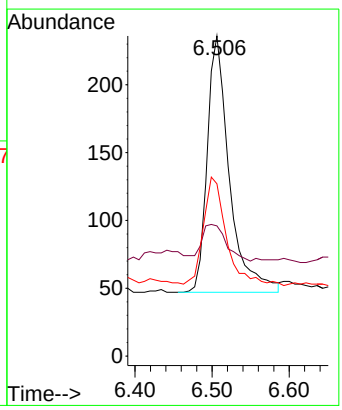


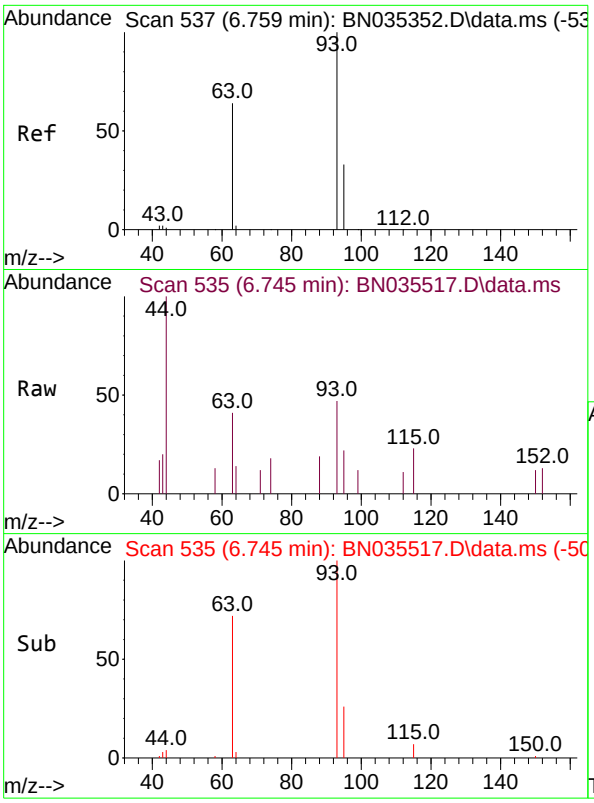


#5
Phenol-d6
Concen: 0.068 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 99 Resp: 377

Ion	Ratio	Lower	Upper
99	100		
42	15.1	11.4	17.2
71	46.2	29.3	43.9#

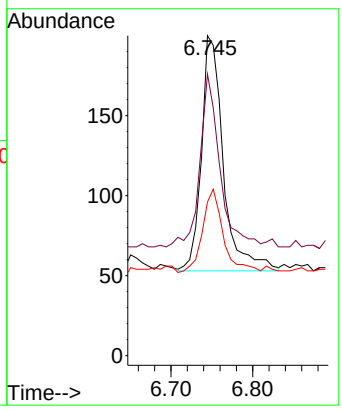




#6
bis(2-Chloroethyl)ether
Concen: 0.059 ng
RT: 6.745 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 93 Resp: 27

Ion	Ratio	Lower	Upper
93	100		
63	67.6	50.4	75.6
95	33.5	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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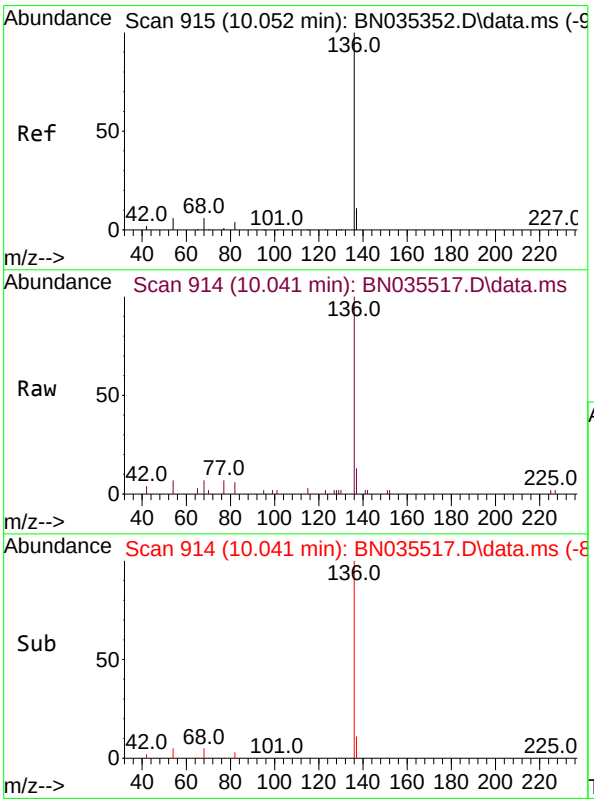
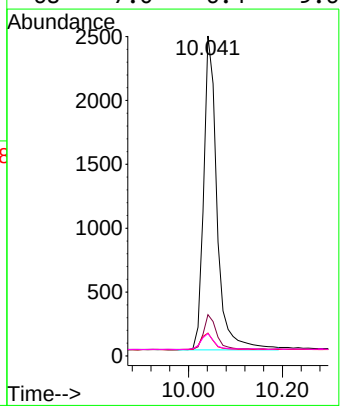
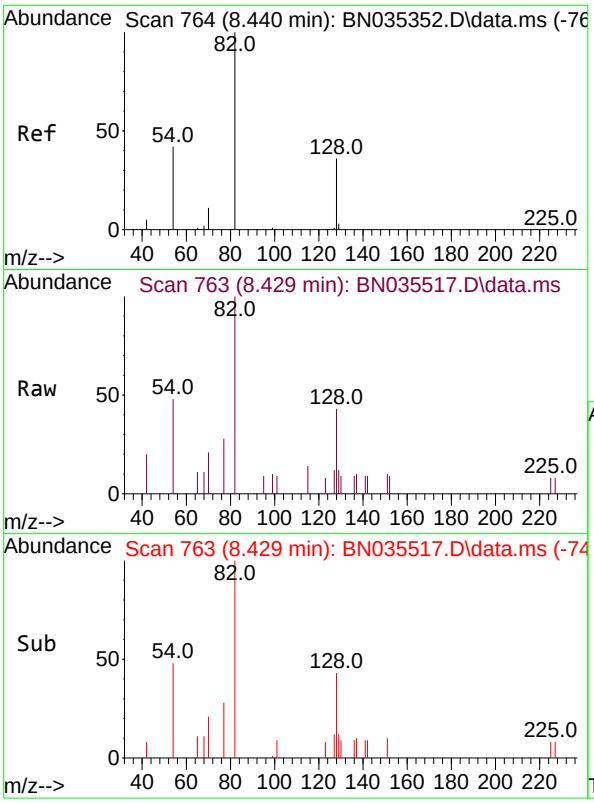


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:136 Resp: 4853

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.2	15.2
54	7.1	6.1	9.1
68	7.0	6.4	9.6

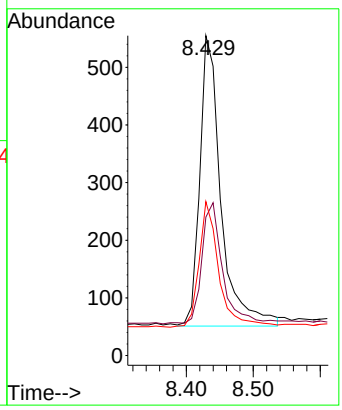




#8
Nitrobenzene-d5
Concen: 0.374 ng m
RT: 8.429 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 82 Resp: 111

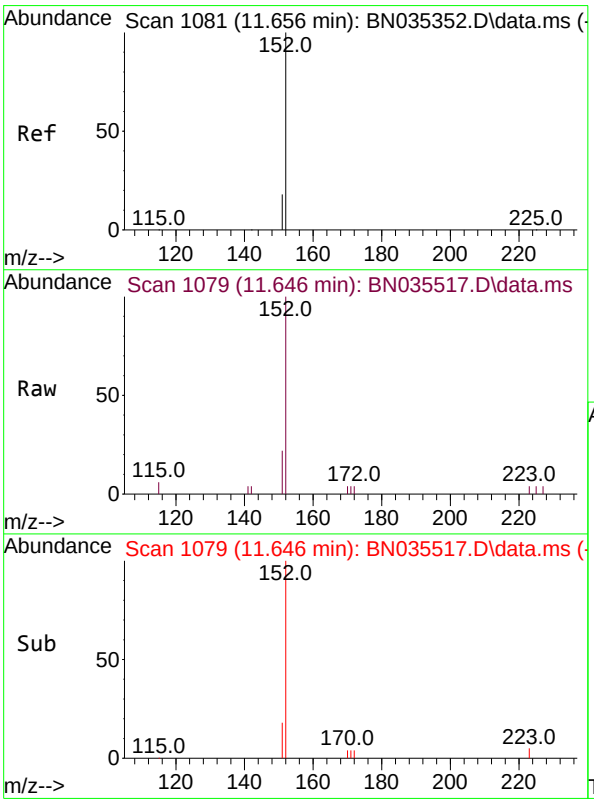
Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.4	50.0
54	48.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

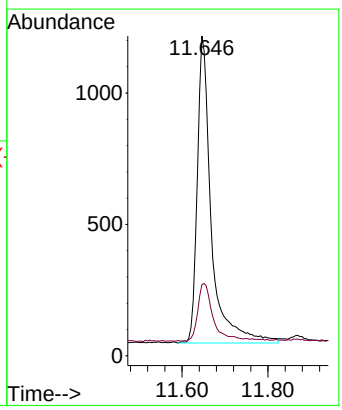
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

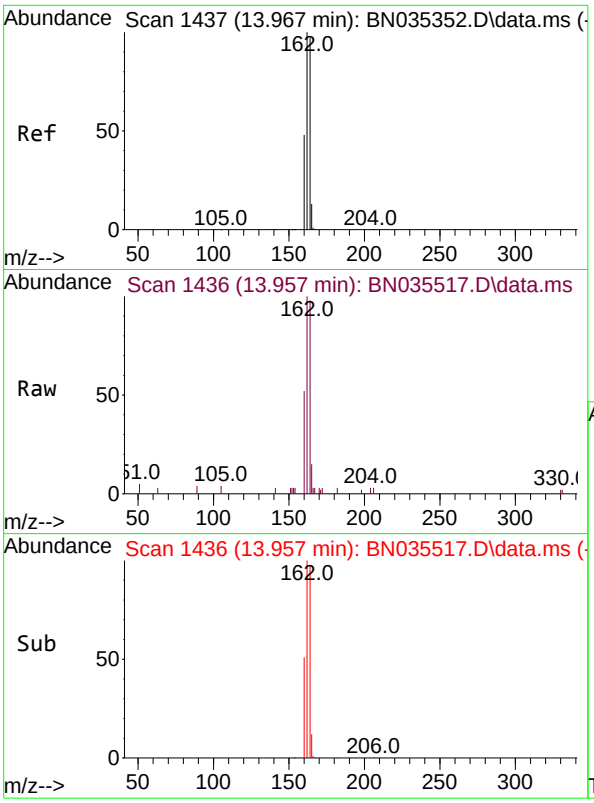


#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:152 Resp: 2654

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	25.0

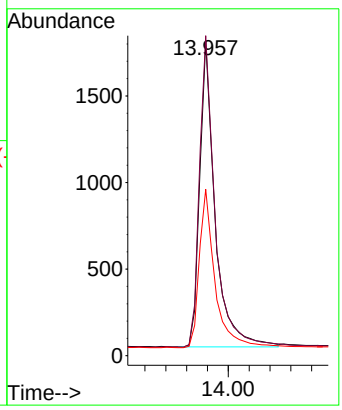




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:164 Resp: 362

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	53.0	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
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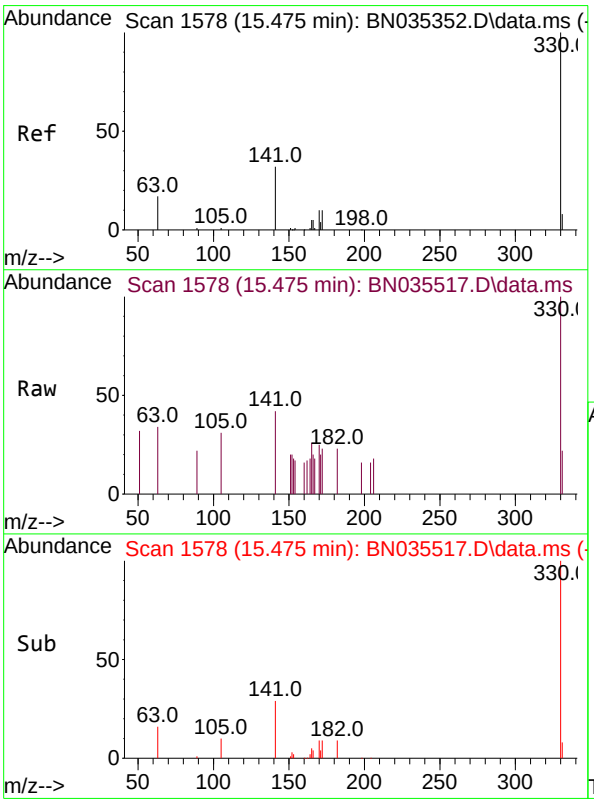
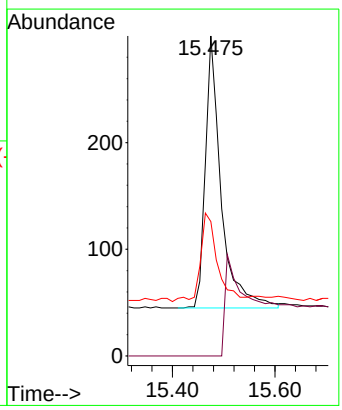
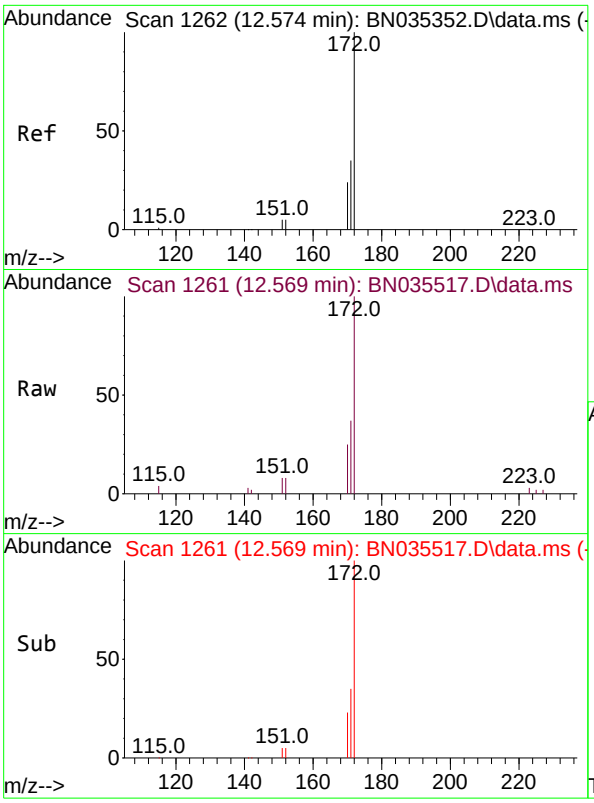


#14
2,4,6-Tribromophenol
Concen: 0.224 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:330 Resp: 576

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0

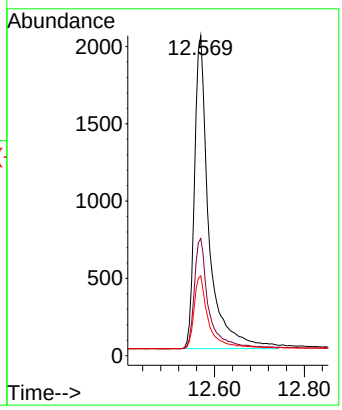




#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:172 Resp: 452

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	25.0	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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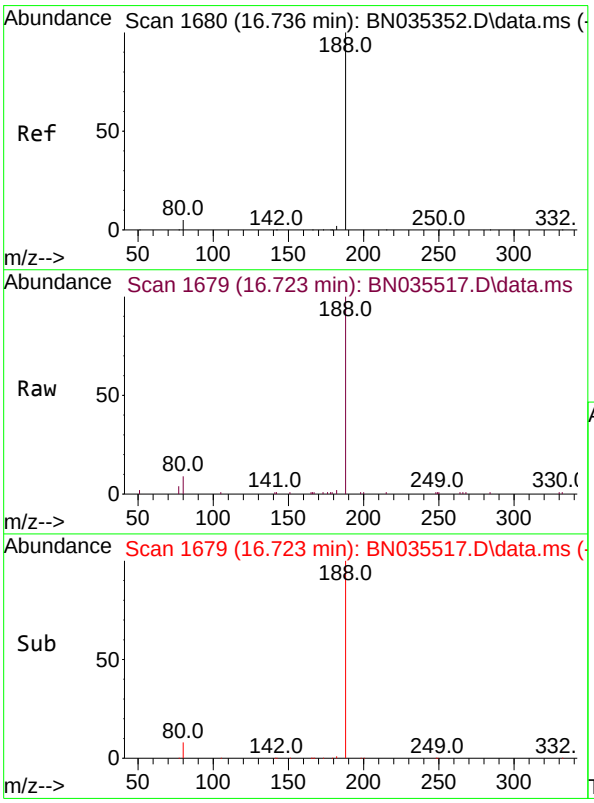
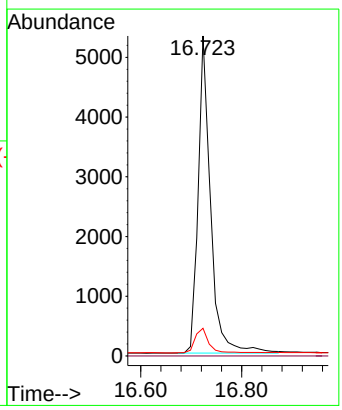
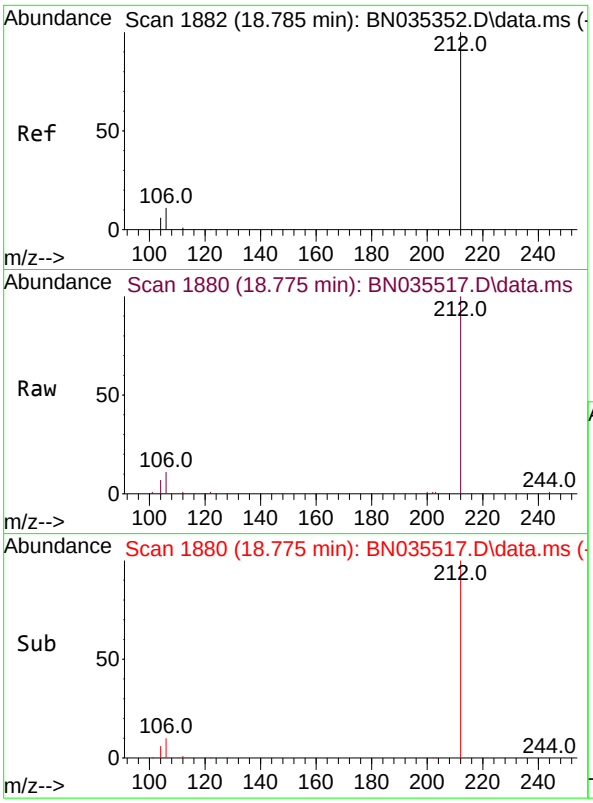


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:188 Resp: 9117

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

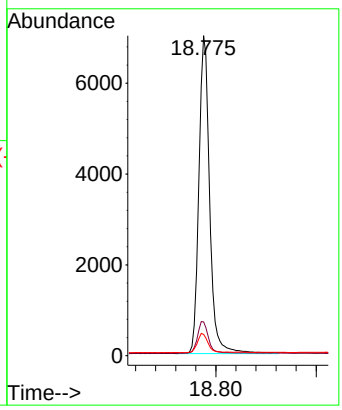




#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:212 Resp: 1040

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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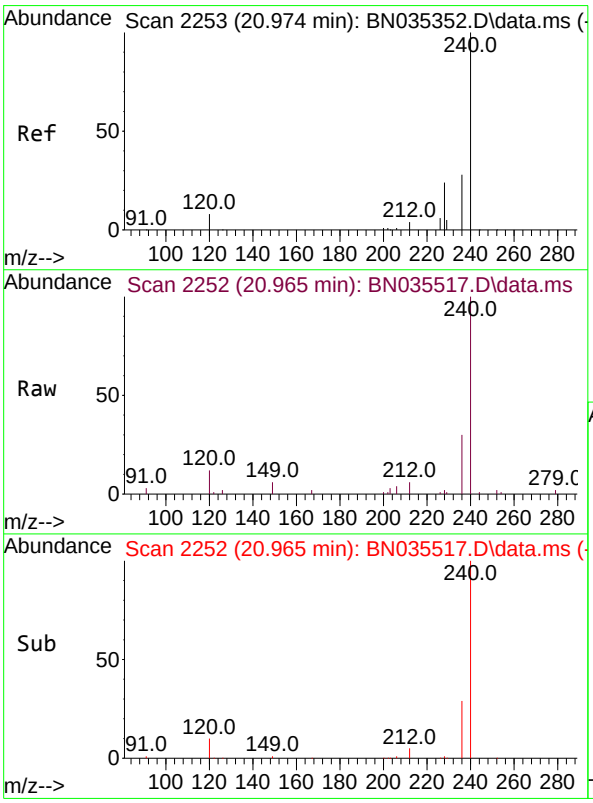
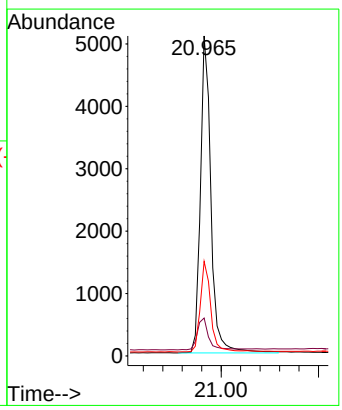
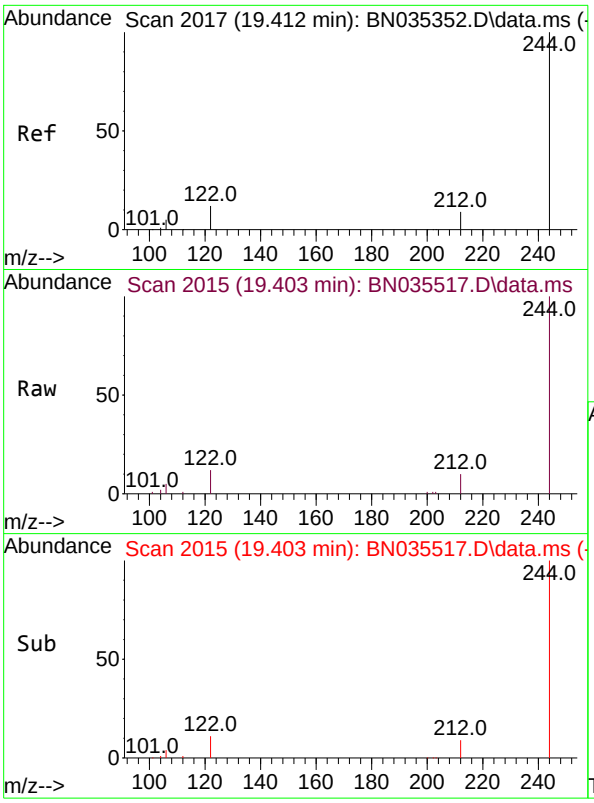


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:240 Resp: 7610

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	29.5	22.9	34.3

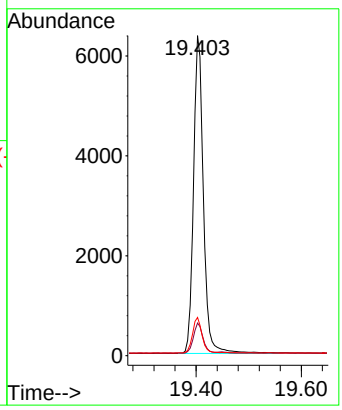




#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.403 min Scan# 2(
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:244 Resp: 830(

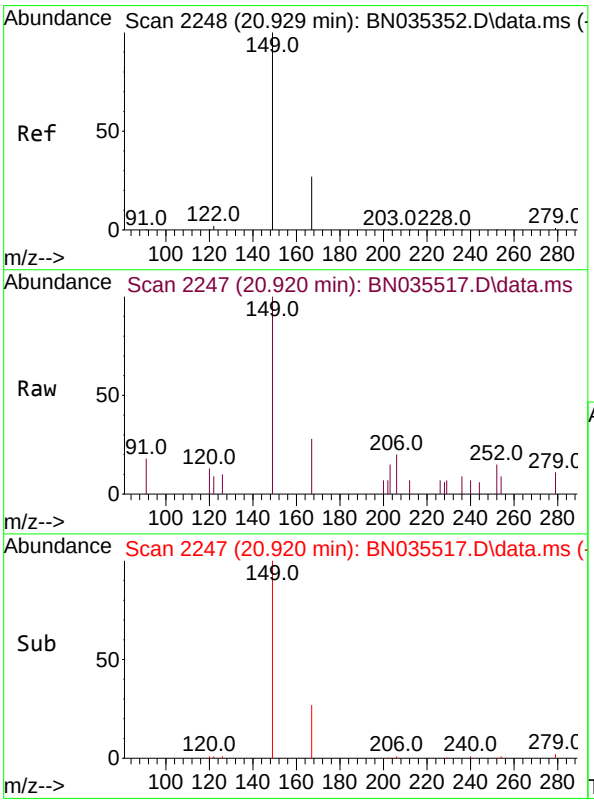
Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

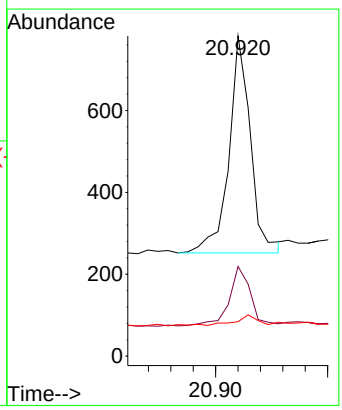
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

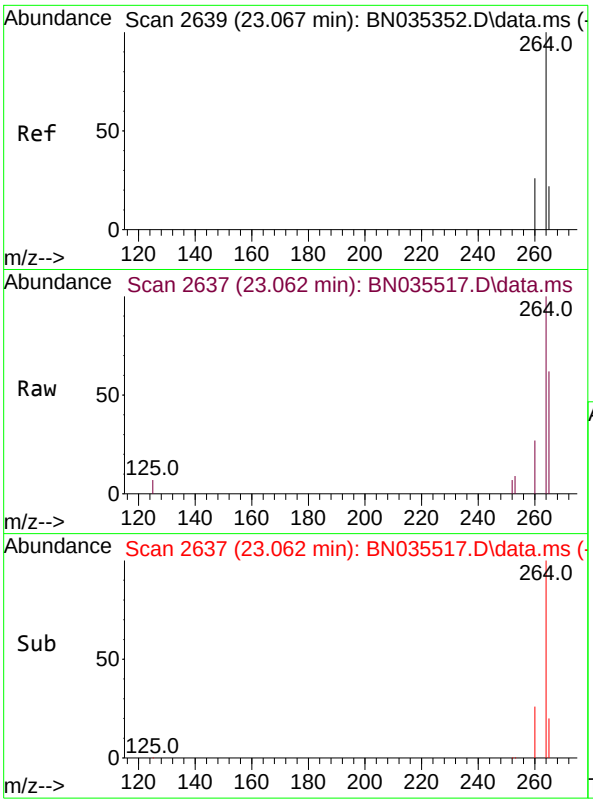


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:149 Resp: 708

Ion	Ratio	Lower	Upper
149	100		
167	27.0	22.2	33.4
279	4.2	2.7	4.1#

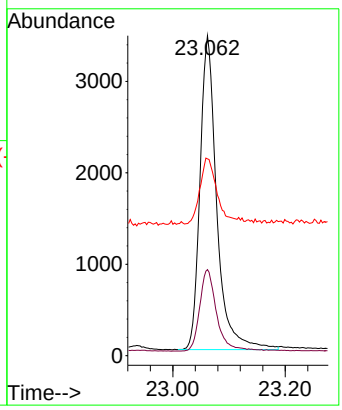




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:264 Resp: 709

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	61.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Raw Data: **BN035527.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/06/24
Project:	CTO WE13	Date Received:	12/06/24
Client Sample ID:	RW5-SP100-20241206DL	SDG No.:	P5166
Lab Sample ID:	P5166-04DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035527.D	5	12/09/24 11:27	12/10/24 10:45	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	8.80	D	0.34	1.00	1.00	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1780	7.301				
1146-65-2	Naphthalene-d8	4600	10.041				
15067-26-2	Acenaphthene-d10	3510	13.957				
1517-22-2	Phenanthrene-d10	9370	16.736				
1719-03-5	Chrysene-d12	6990	20.974				
1520-96-3	Perylene-d12	6330	23.067				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035527.D
Acq On : 10 Dec 2024 10:45
Operator : RC/JU
Sample : P5166-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:28:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1780	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4601	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3512	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	9370	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6994	0.400	ng	0.00
35) Perylene-d12	23.067	264	6330	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	130	0.029	ng	0.00
5) Phenol-d6	6.506	99	82	0.015	ng	0.00
8) Nitrobenzene-d5	8.440	82	176m	0.063	ng	0.00
11) 2-Methylnaphthalene-d10	11.671	152	499	0.069	ng	0.02
14) 2,4,6-Tribromophenol	15.496	330	104	0.042	ng	0.02
15) 2-Fluorobiphenyl	12.589	172	825	0.062	ng	0.02
27) Fluoranthene-d10	18.785	212	2053	0.077	ng	0.00
31) Terphenyl-d14	19.412	244	1573	0.114	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	2988	1.756	ng	99

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

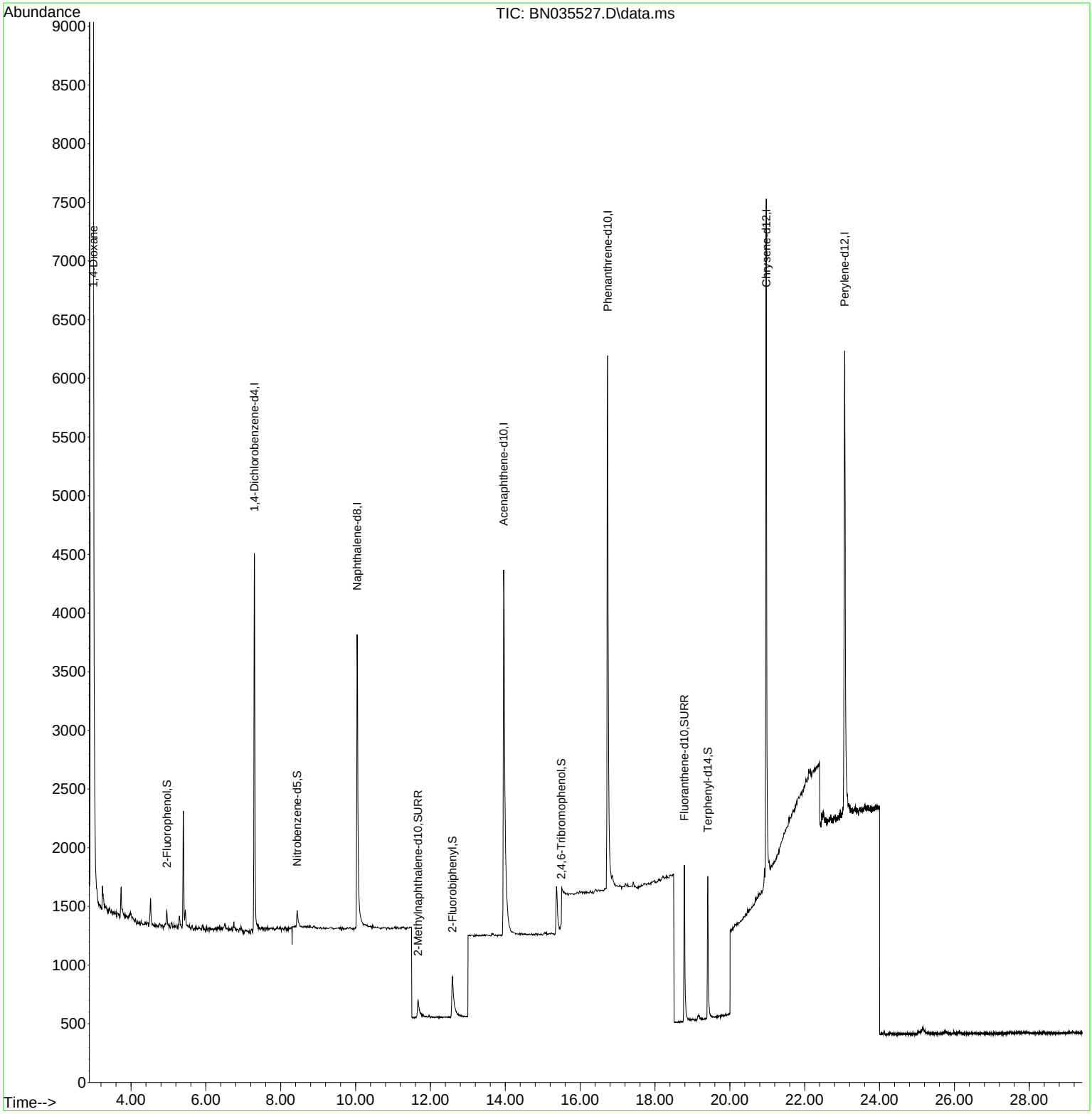
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035527.D
Acq On : 10 Dec 2024 10:45
Operator : RC/JU
Sample : P5166-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

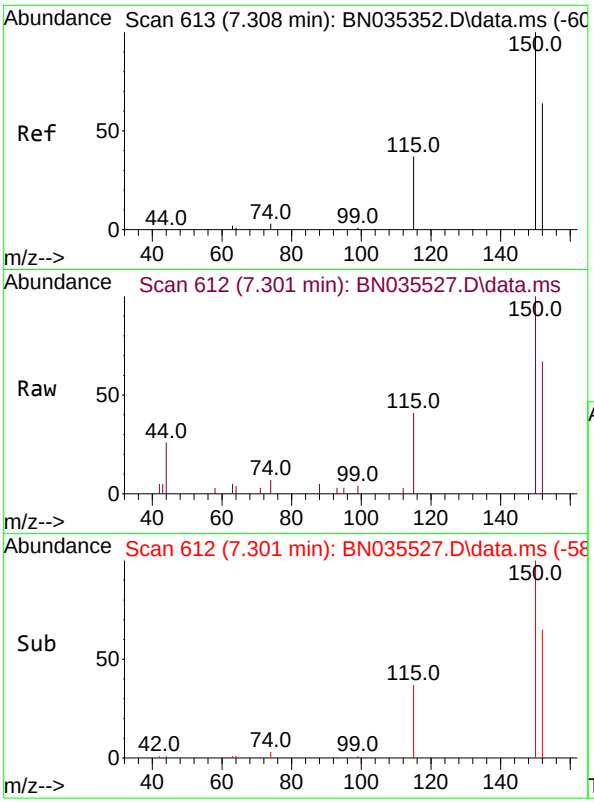
Quant Time: Dec 10 12:28:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

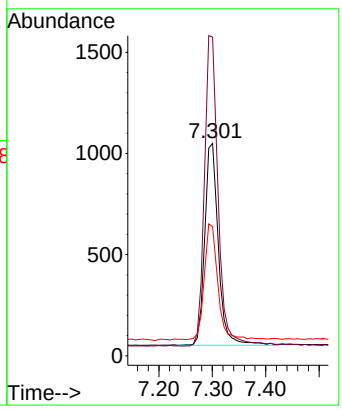




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:152 Resp: 178

Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	60.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
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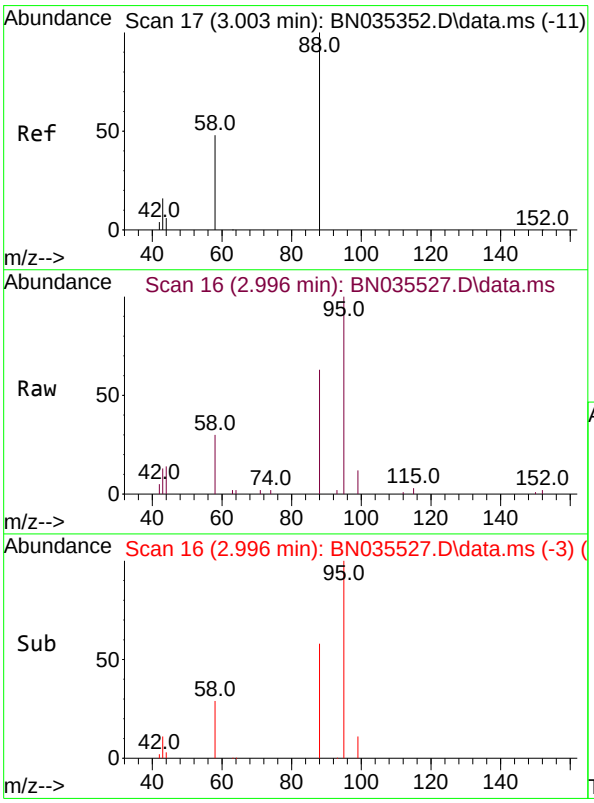
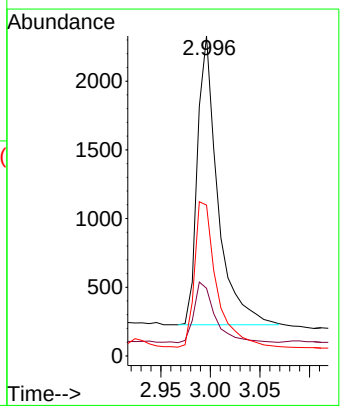
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

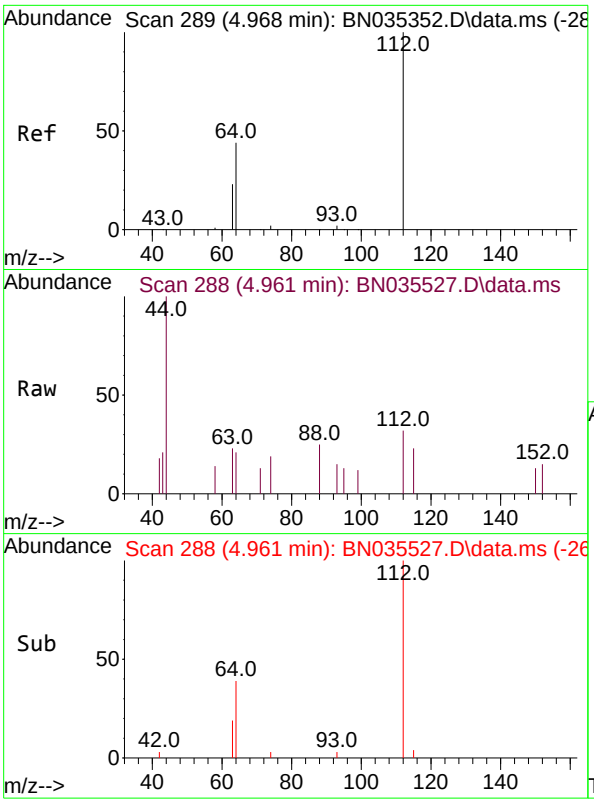


#2
1,4-Dioxane
Concen: 1.756 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 88 Resp: 2988

Ion	Ratio	Lower	Upper
88	100		
43	21.4	17.2	25.8
58	54.5	44.5	66.7





#4
2-Fluorophenol
Concen: 0.029 ng
RT: 4.961 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

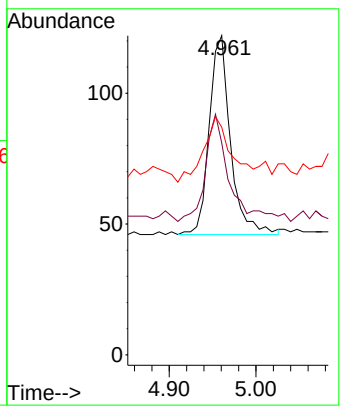
Tgt Ion:112 Resp: 13

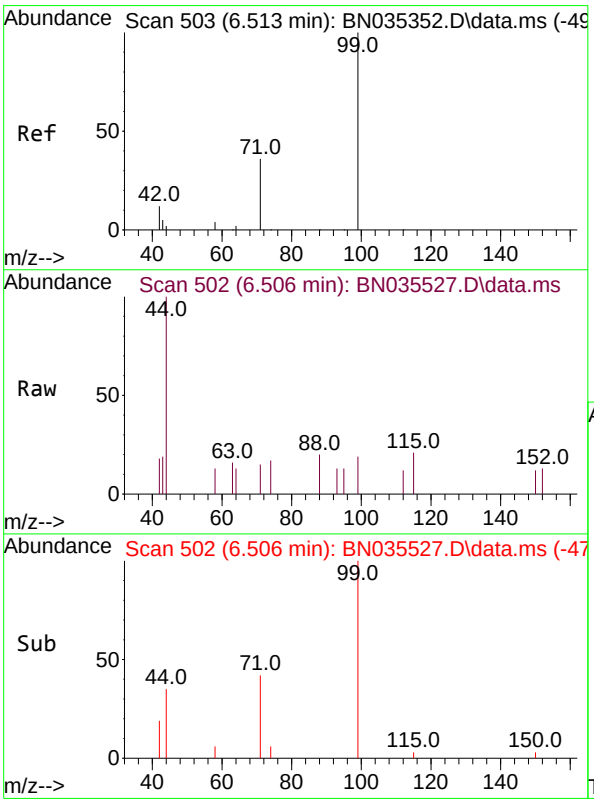
Ion	Ratio	Lower	Upper
112	100		
64	60.0	39.8	59.8#
63	42.3	21.0	31.6#

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

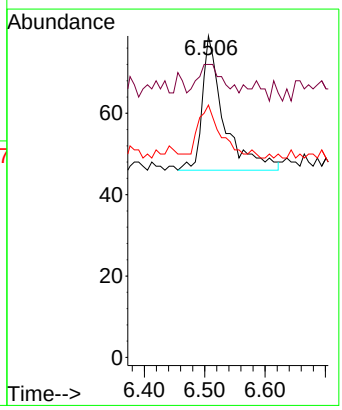


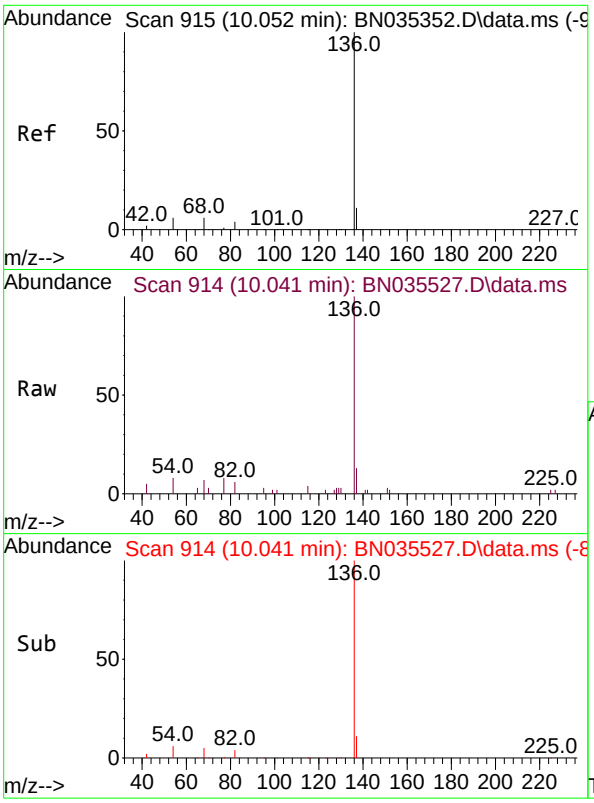


#5
Phenol-d6
Concen: 0.015 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 99 Resp: 82

Ion	Ratio	Lower	Upper
99	100		
42	22.0	11.4	17.2#
71	34.1	29.3	43.9

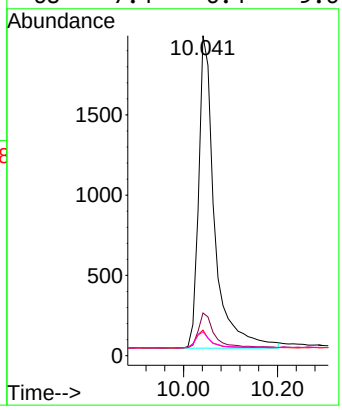




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:136 Resp: 460

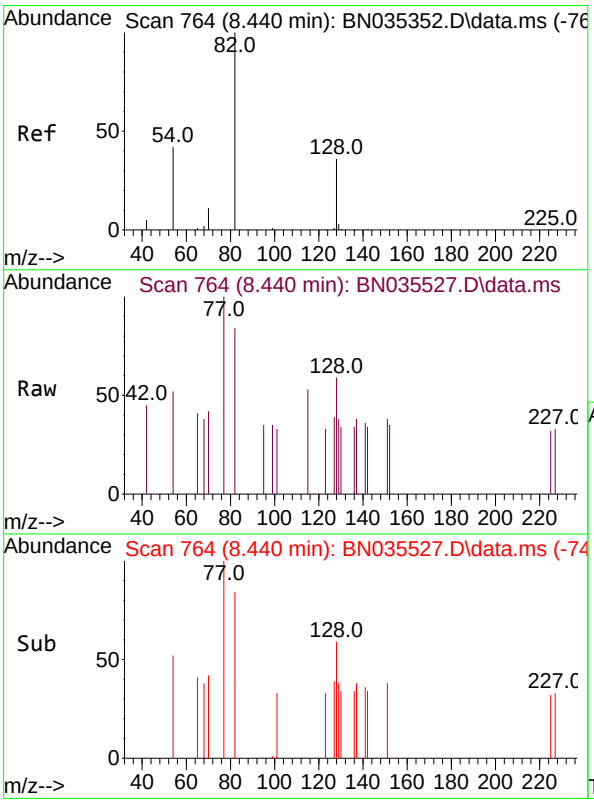
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	8.0	6.1	9.1
68	7.4	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
APPROVED

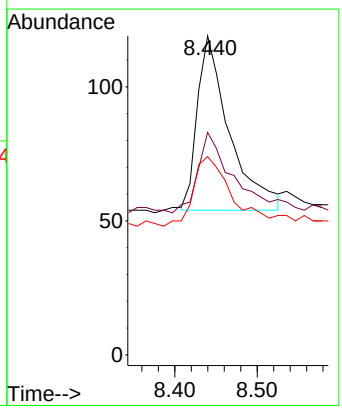
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

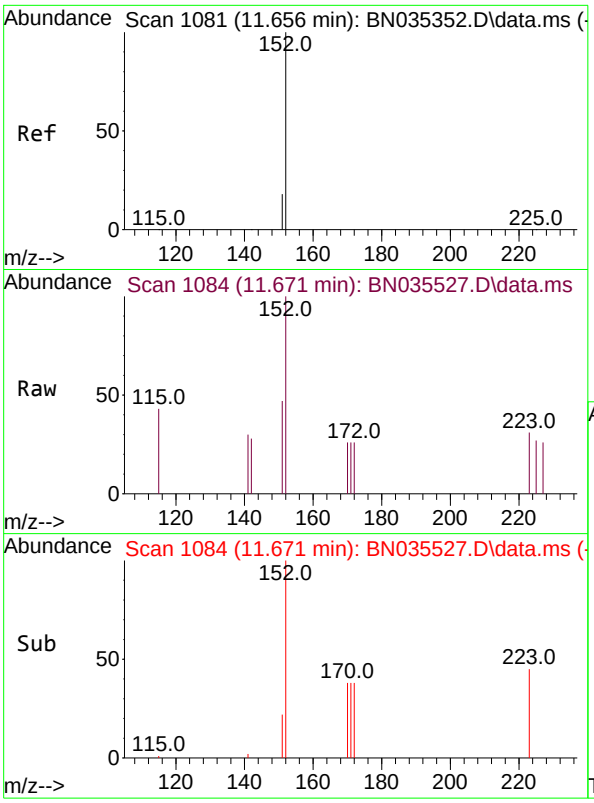


#8
Nitrobenzene-d5
Concen: 0.063 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 82 Resp: 176

Ion	Ratio	Lower	Upper
82	100		
128	69.7	33.4	50.0#
54	62.2	36.7	55.1#





#11
2-Methylnaphthalene-d10
Concen: 0.069 ng
RT: 11.671 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

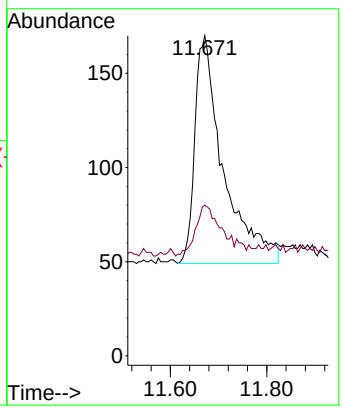
Tgt Ion:152 Resp: 49

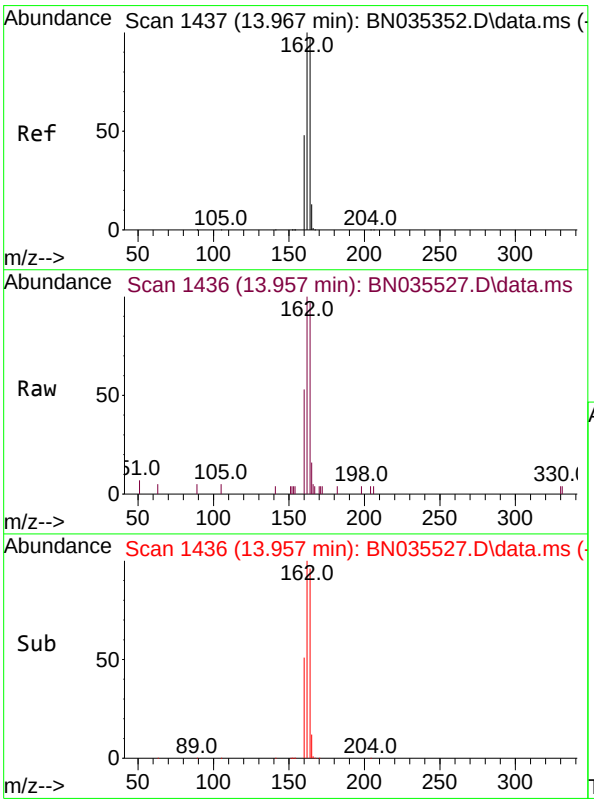
Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

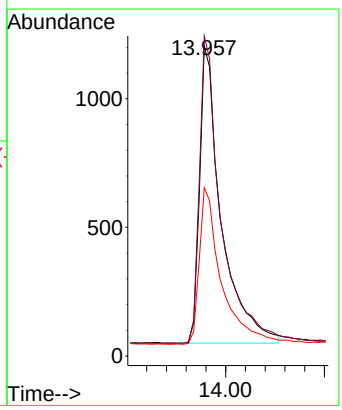


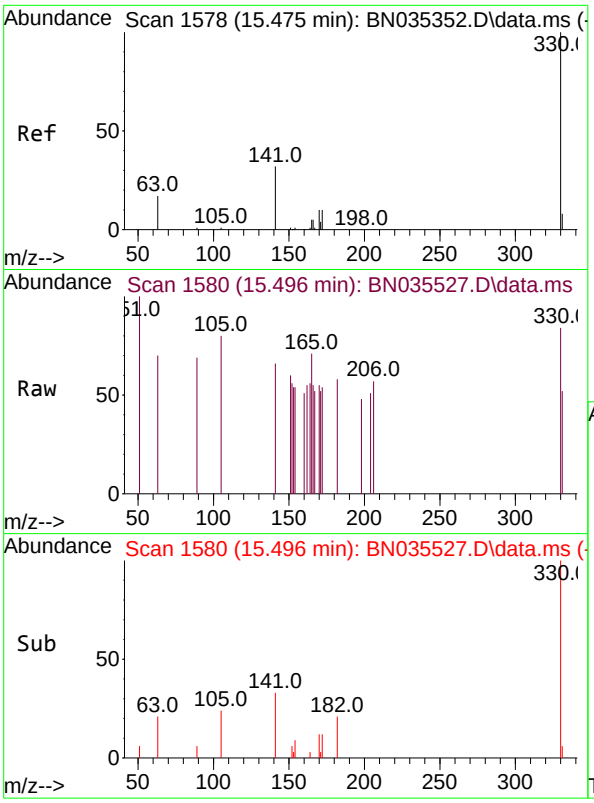


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:164 Resp: 3512

Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.2	123.2
160	54.3	40.1	60.1





#14
2,4,6-Tribromophenol
Concen: 0.042 ng
RT: 15.496 min Scan# 1
Delta R.T. 0.021 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:330 Resp: 10

Ion	Ratio	Lower	Upper
330	100		
332	329.8	0.0	0.0#
141	0.0	26.6	40.0#

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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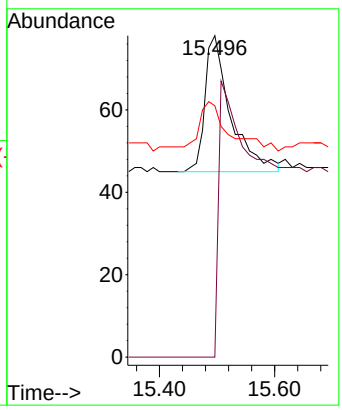
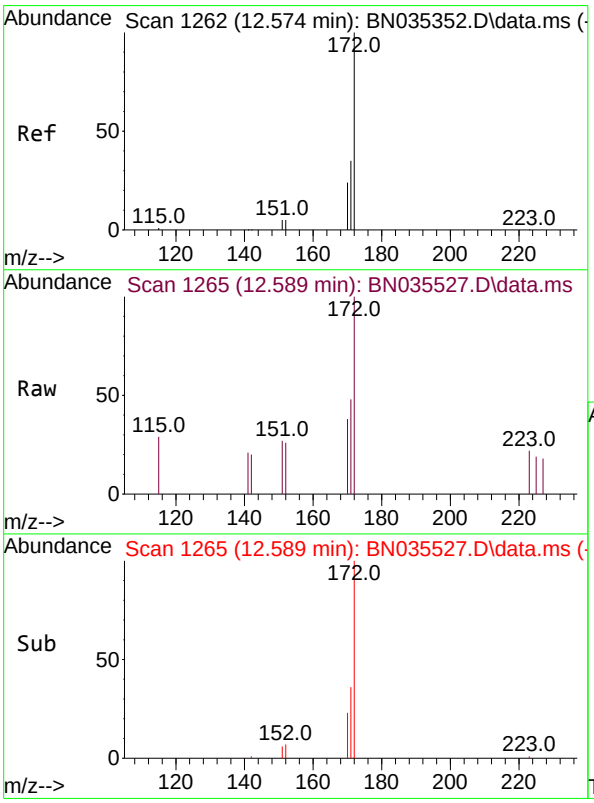
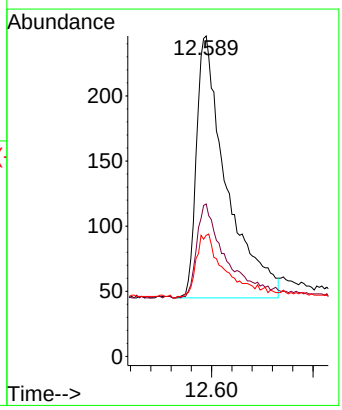


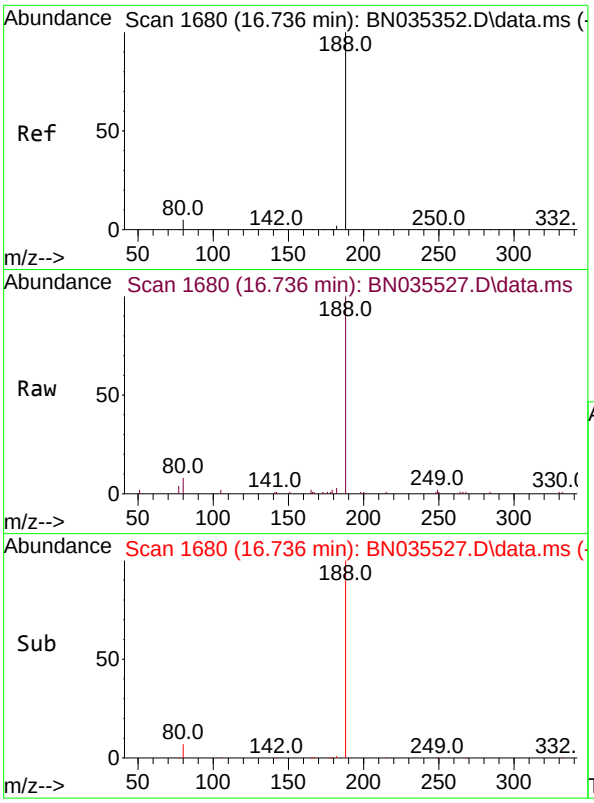


#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.589 min Scan# 1265
Delta R.T. 0.015 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:172 Resp: 825

Ion	Ratio	Lower	Upper
172	100		
171	47.6	29.0	43.4#
170	37.8	19.8	29.8#





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:188 Resp: 937(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
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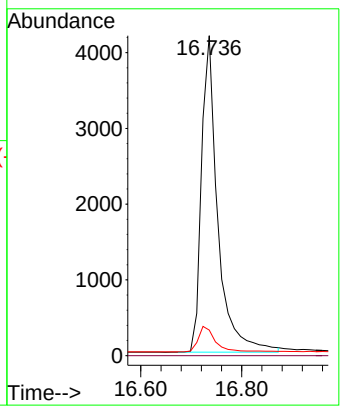
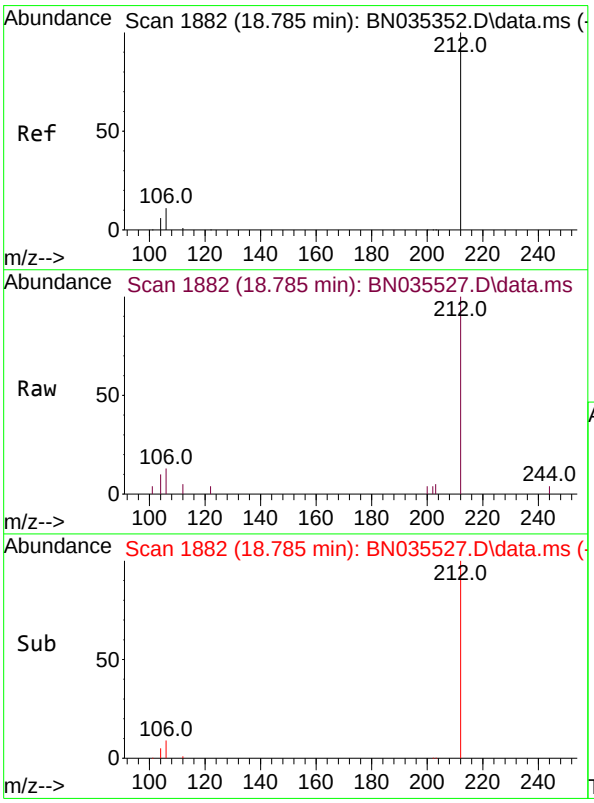
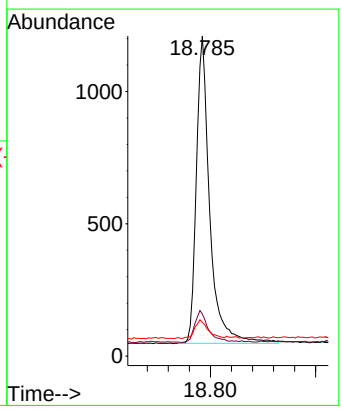


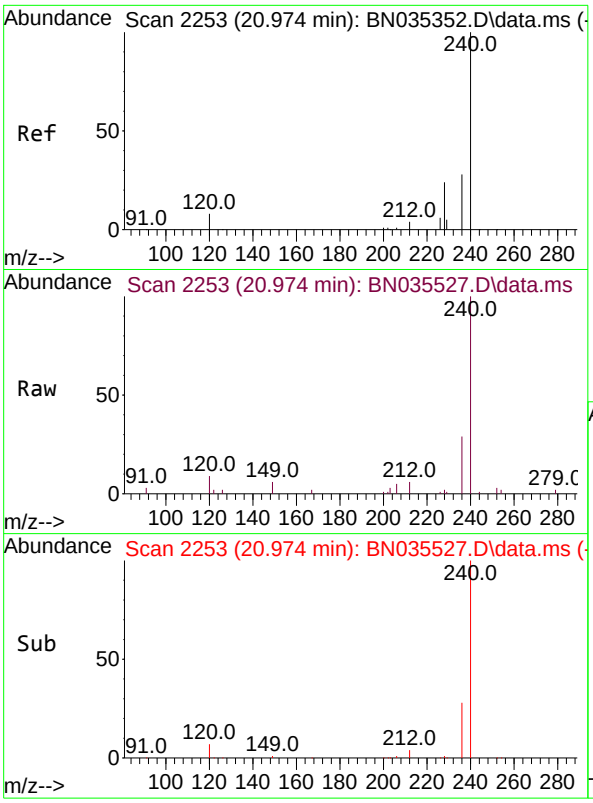


#27
Fluoranthene-d10
Concen: 0.077 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:212 Resp: 2053

Ion	Ratio	Lower	Upper
212	100		
106	10.2	9.2	13.8
104	5.7	5.3	7.9

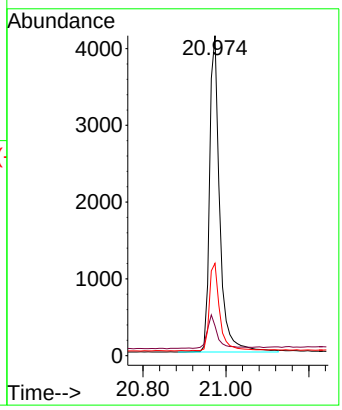




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:240 Resp: 699

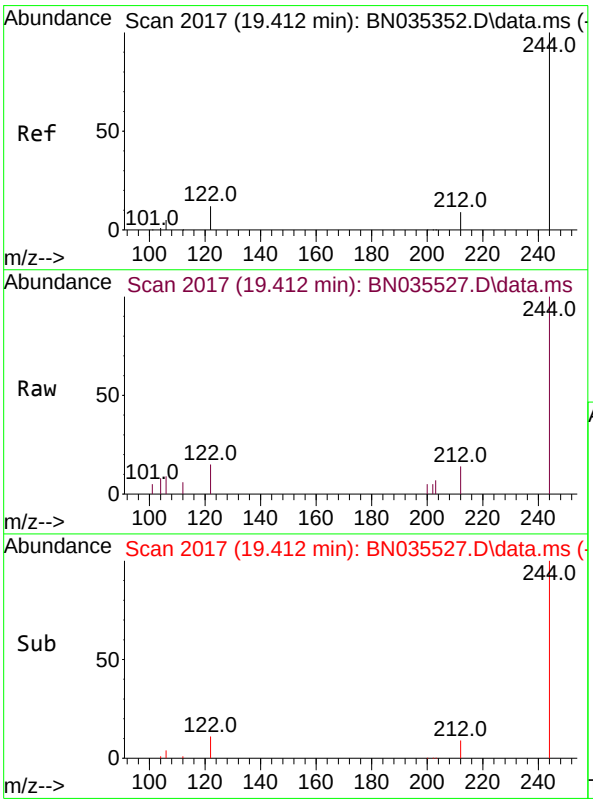
Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
APPROVED

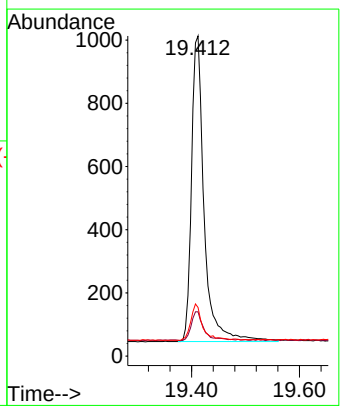
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

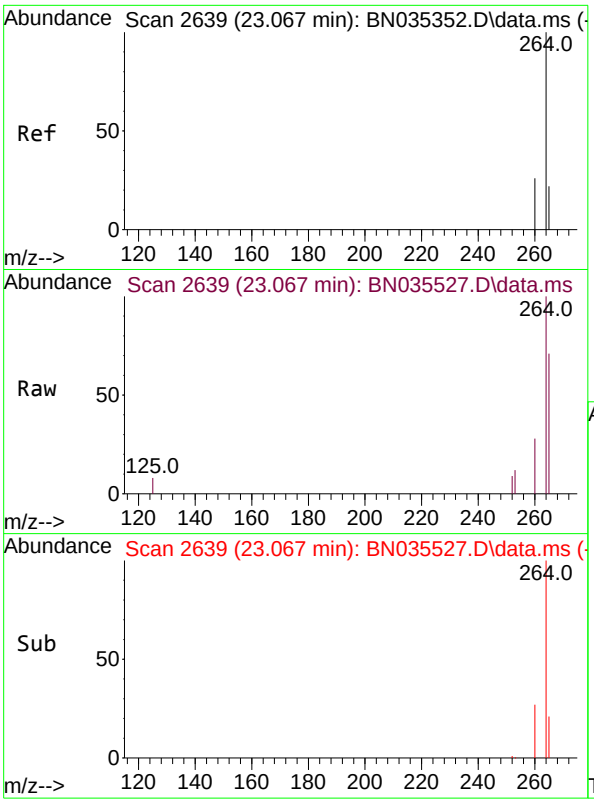


#31
Terphenyl-d14
Concen: 0.114 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:244 Resp: 1573

Ion	Ratio	Lower	Upper
244	100		
212	13.8	8.1	12.1#
122	15.2	10.3	15.5

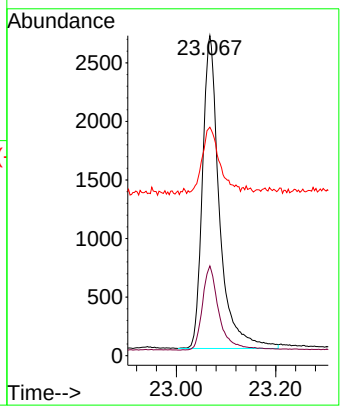




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:264 Resp: 633(

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.4	32.2
265	71.4	40.2	60.4#



Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Raw Data: **BN035518.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/06/24
Project:	CTO WE13	Date Received:	12/06/24
Client Sample ID:	RW5-SP201-20241206	SDG No.:	P5166
Lab Sample ID:	P5166-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035518.D	1	12/09/24 11:27	12/09/24 21:55	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		110%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		98%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.66	*	58 - 132		165%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1760	7.301				
1146-65-2	Naphthalene-d8	4810	10.041				
15067-26-2	Acenaphthene-d10	3560	13.957				
1517-22-2	Phenanthrene-d10	8360	16.723				
1719-03-5	Chrysene-d12	7090	20.965				
1520-96-3	Perylene-d12	6750	23.059				

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

Sample Results: **BN035518.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035518.D
Acq On : 09 Dec 2024 21:55
Operator : RC/JU
Sample : P5166-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1759	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4808	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3560	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8364	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7094	0.400	ng	0.00
35) Perylene-d12	23.059	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	550	0.125	ng	-0.01
5) Phenol-d6	6.506	99	364	0.069	ng	0.00
8) Nitrobenzene-d5	8.429	82	1151m	0.392	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2817	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	645	0.255	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	4894	0.364	ng	-0.01
27) Fluoranthene-d10	18.775	212	10435	0.440	ng	0.00
31) Terphenyl-d14	19.403	244	9233	0.660	ng	0.00
Target Compounds						Qvalue
33) Chrysene	21.001	228	547	0.021	ng	# 84
34) Bis(2-ethylhexyl)phtha...	20.920	149	676	0.069	ng	# 96
37) Benzo(b)fluoranthene	22.448	252	603	0.024	ng	# 10
38) Benzo(k)fluoranthene	22.489	252	532	0.022	ng	# 6

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

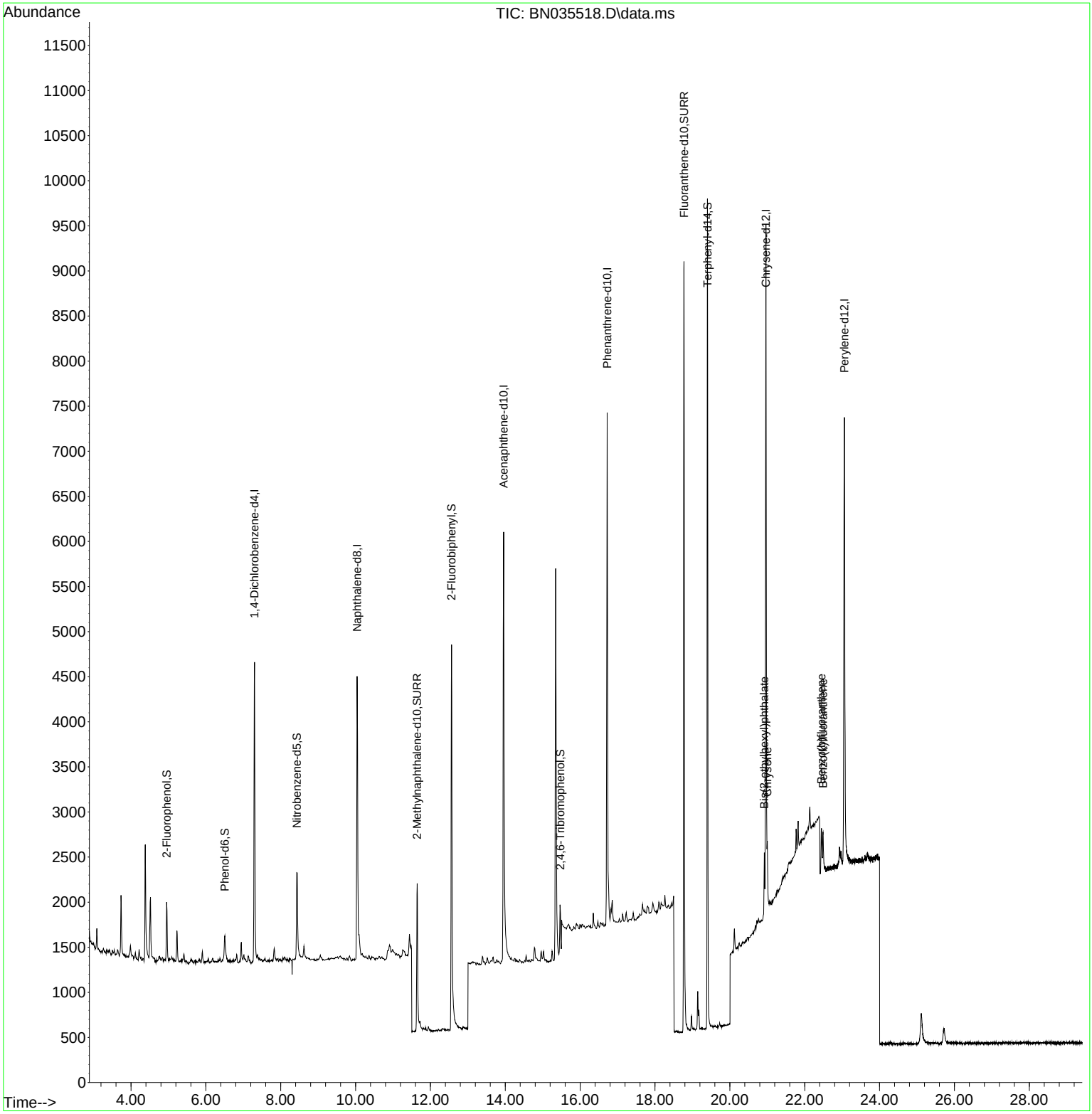
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035518.D
Acq On : 09 Dec 2024 21:55
Operator : RC/JU
Sample : P5166-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

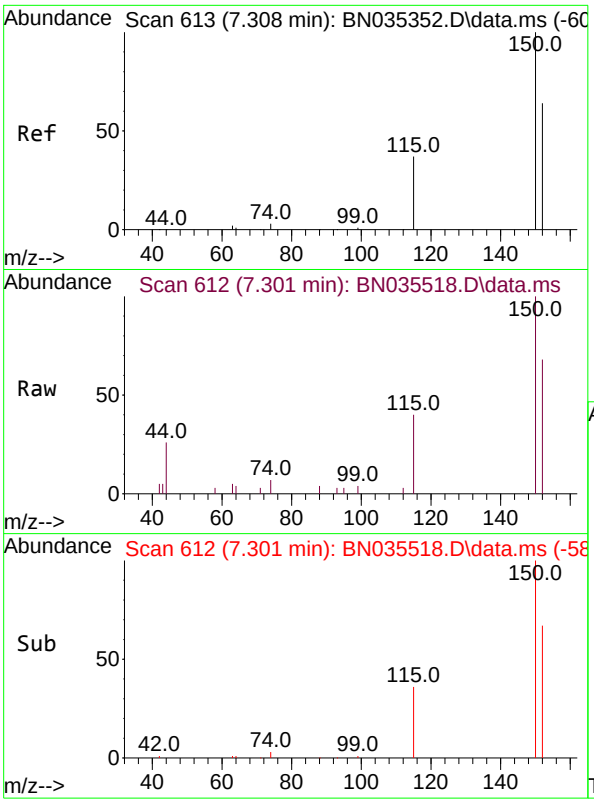
Quant Time: Dec 10 01:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

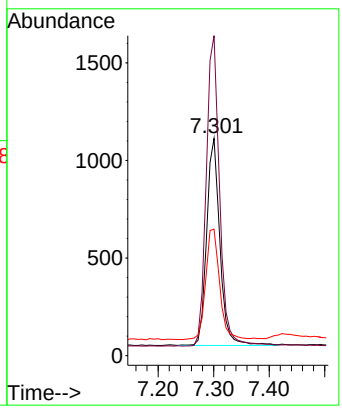




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:152 Resp: 175

Ion	Ratio	Lower	Upper
152	100		
150	147.3	124.0	186.0
115	58.2	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
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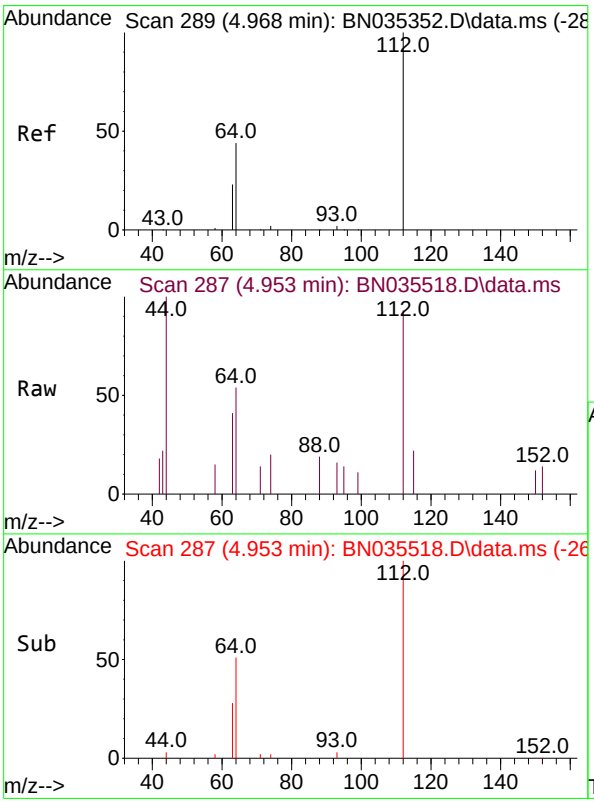
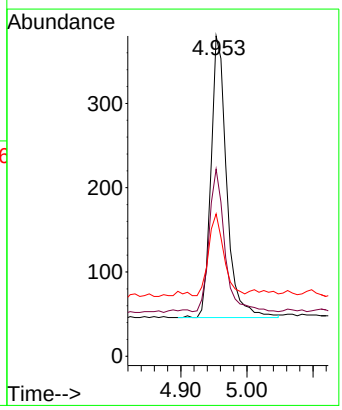
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

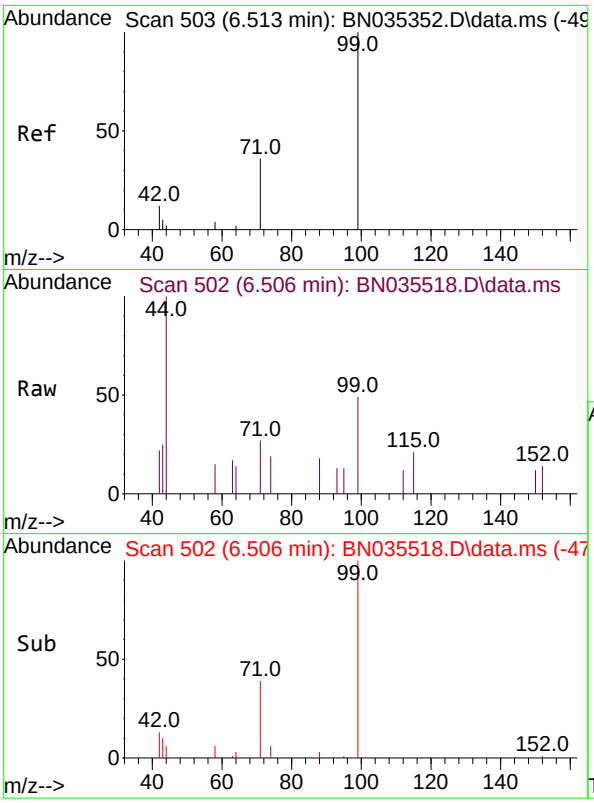


#4
2-Fluorophenol
Concen: 0.125 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:112 Resp: 550

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	29.3	21.0	31.6

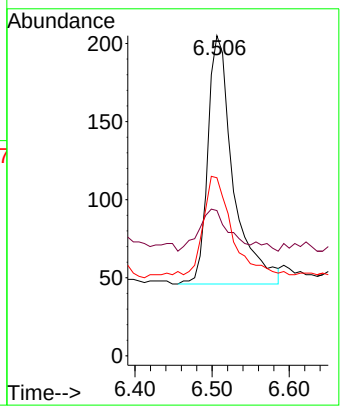




#5
Phenol-d6
Concen: 0.069 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion: 99 Resp: 364

Ion	Ratio	Lower	Upper
99	100		
42	19.8	11.4	17.2#
71	49.7	29.3	43.9#



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
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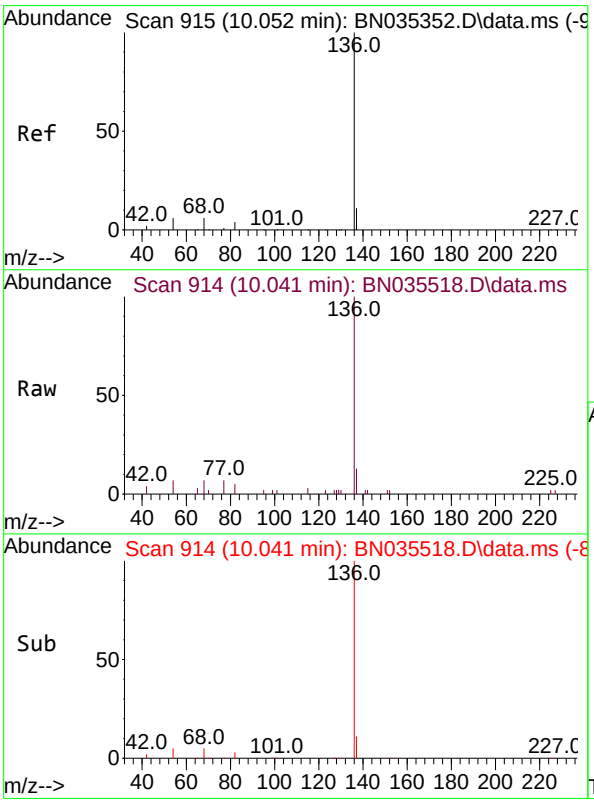
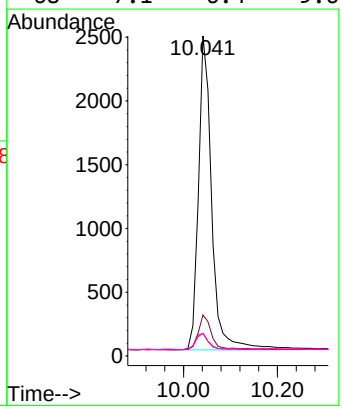
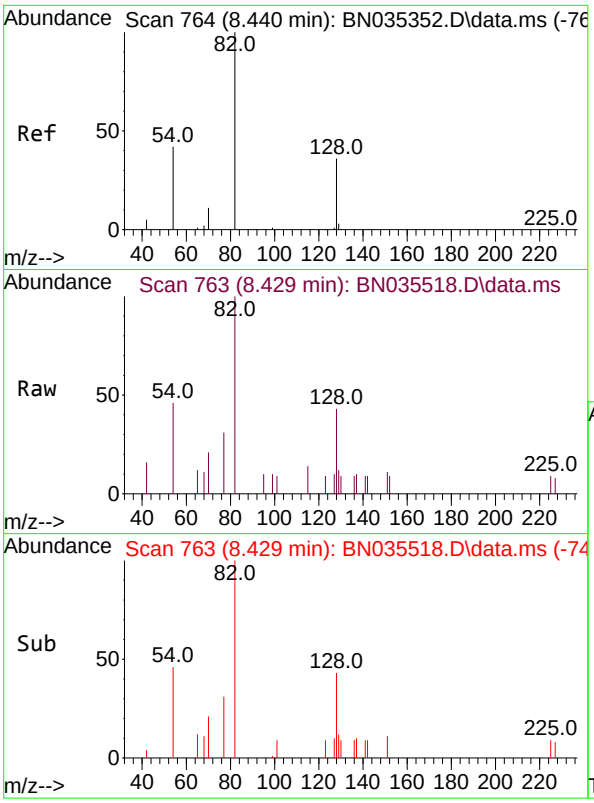


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:136 Resp: 4808

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.0	6.1	9.1
68	7.1	6.4	9.6

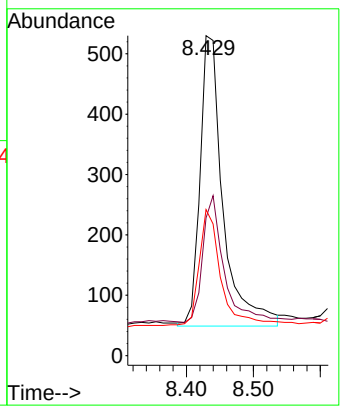




#8
Nitrobenzene-d5
Concen: 0.392 ng m
RT: 8.429 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion: 82 Resp: 115

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.4	50.0
54	45.7	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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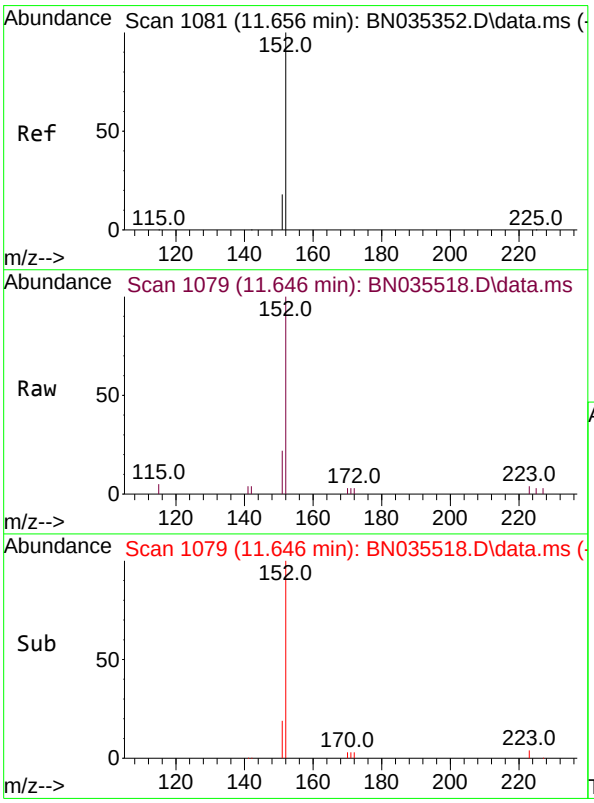
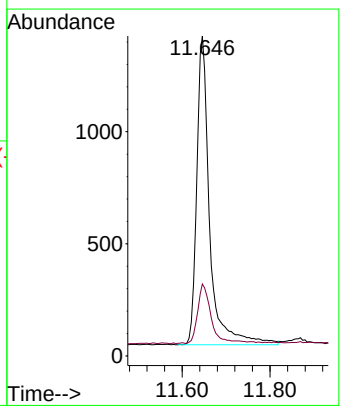
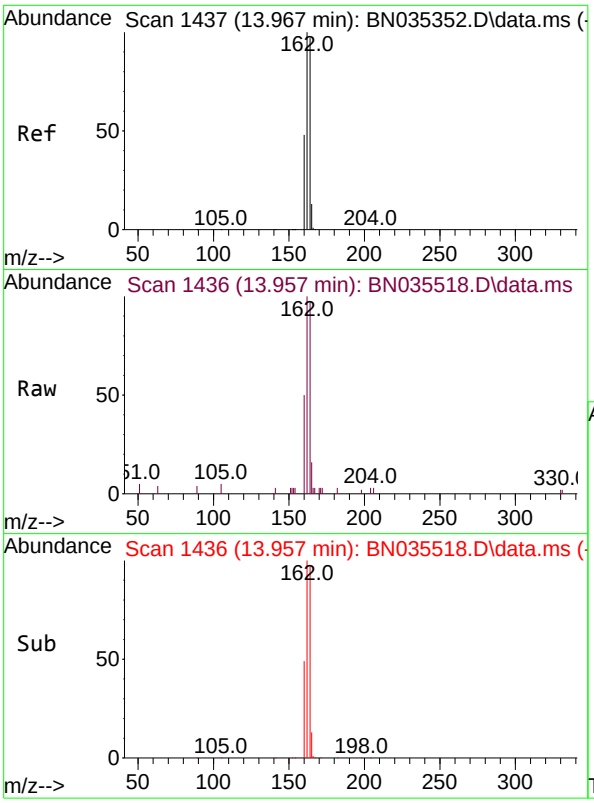


#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:152 Resp: 2817

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	25.0

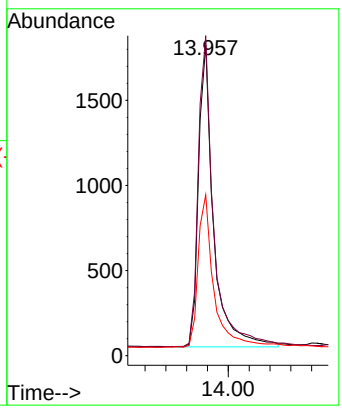




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:164 Resp: 356

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	51.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
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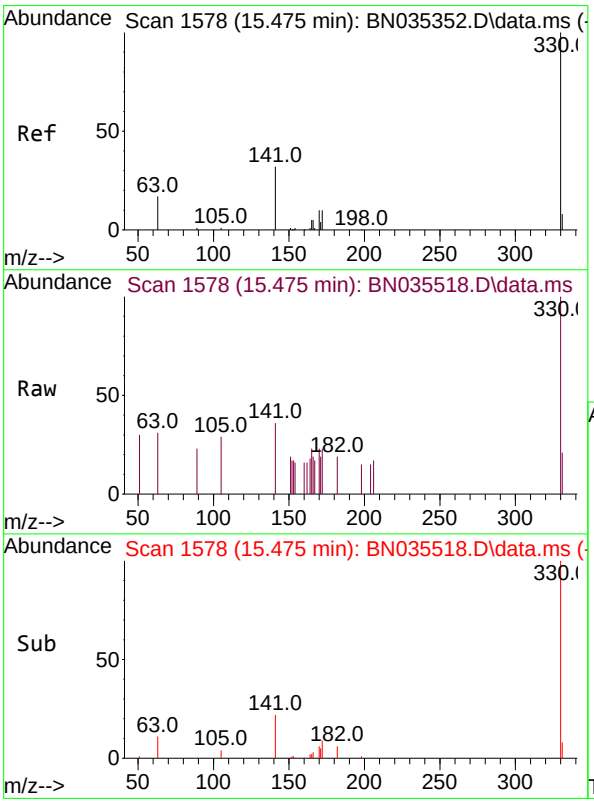
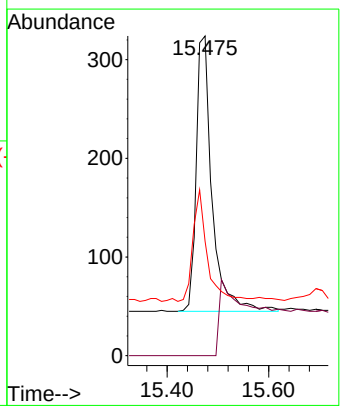
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

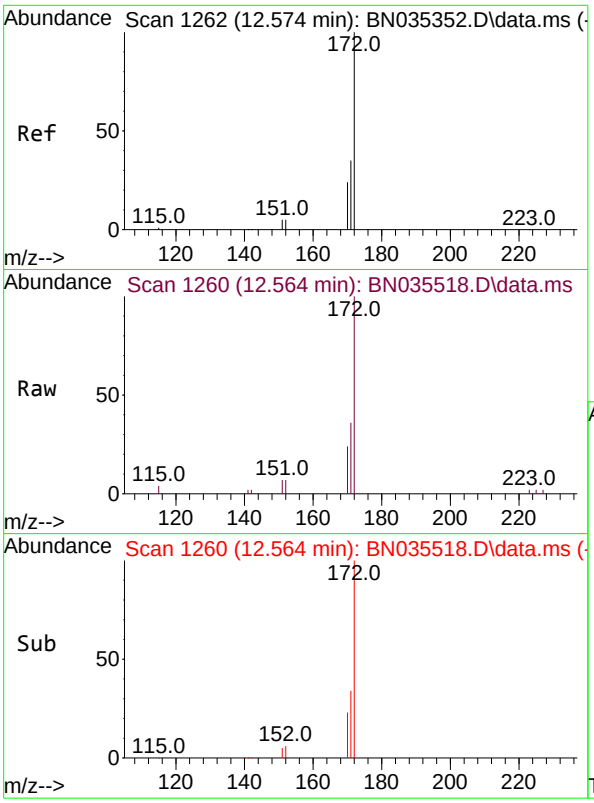


#14
2,4,6-Tribromophenol
Concen: 0.255 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:330 Resp: 645

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.0	26.6	40.0

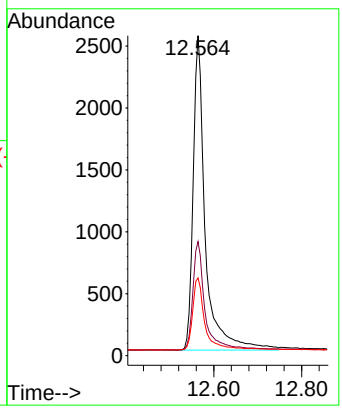




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:172 Resp: 489

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	24.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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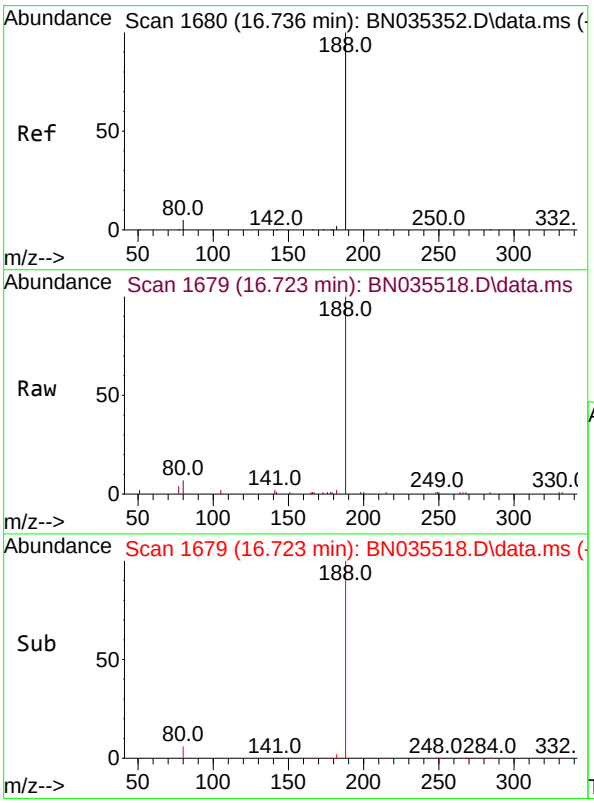
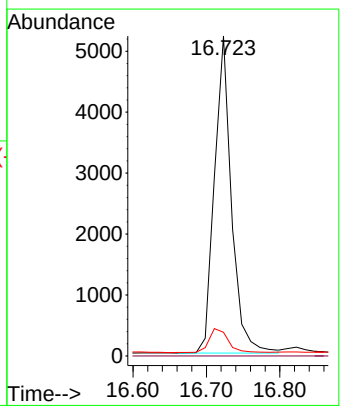
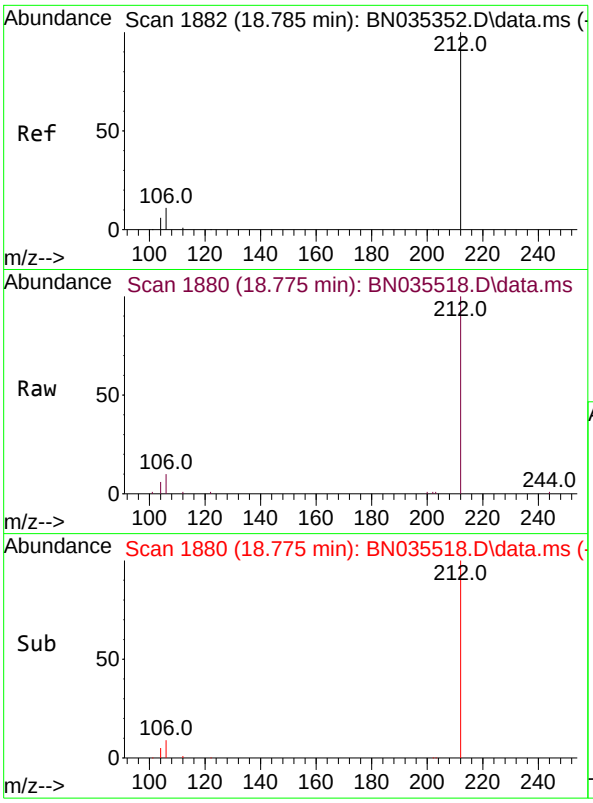


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:188 Resp: 8364

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.6	6.8#

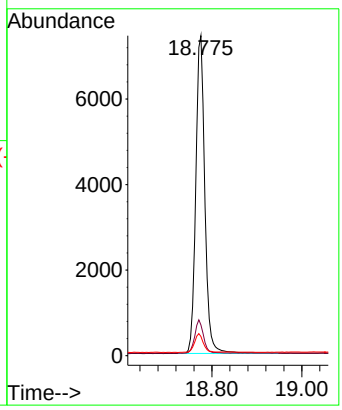




#27
Fluoranthene-d10
Concen: 0.440 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:212 Resp: 1043

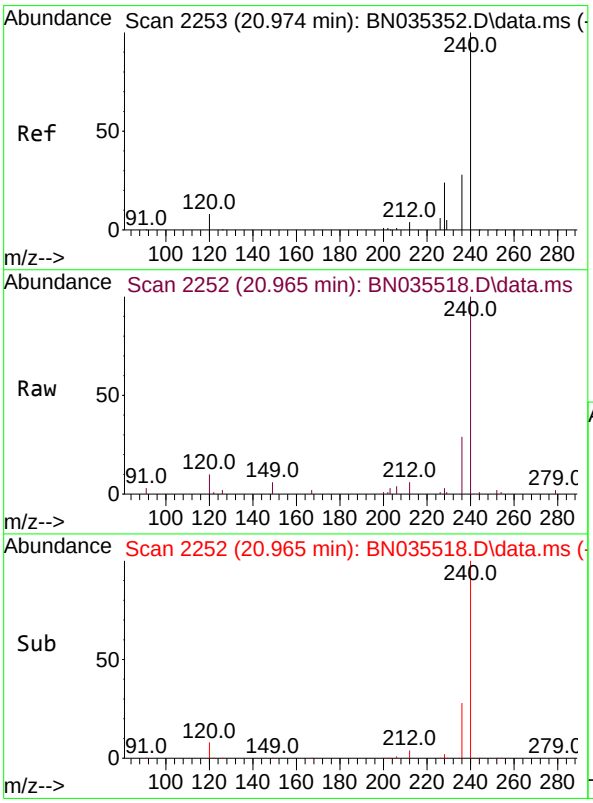
Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
APPROVED

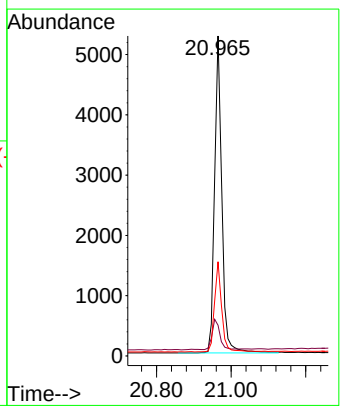
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

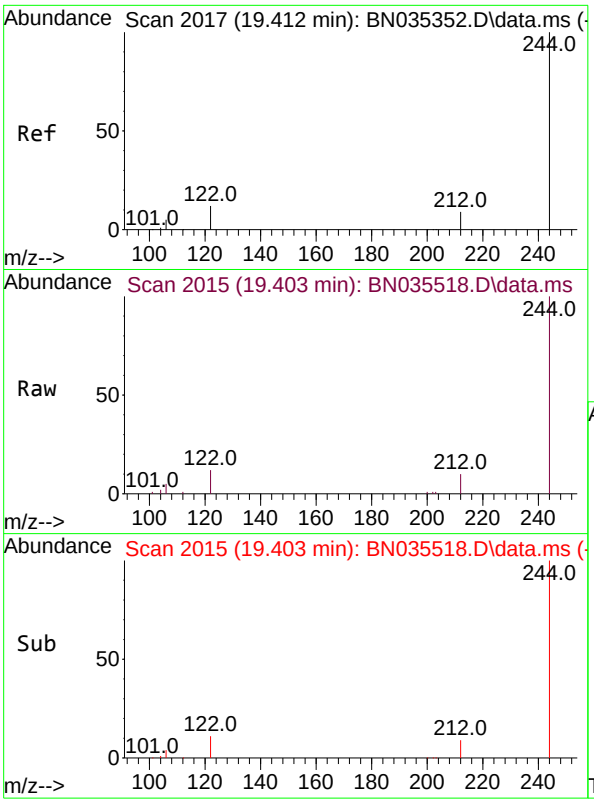


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:240 Resp: 7094

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	29.5	22.9	34.3

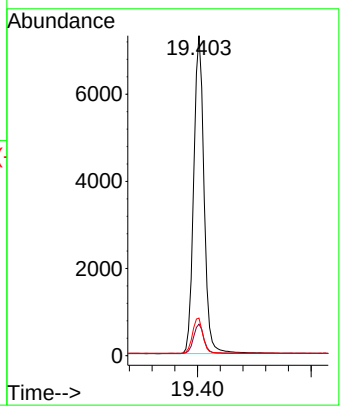




#31
Terphenyl-d14
Concen: 0.660 ng
RT: 19.403 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:244 Resp: 923

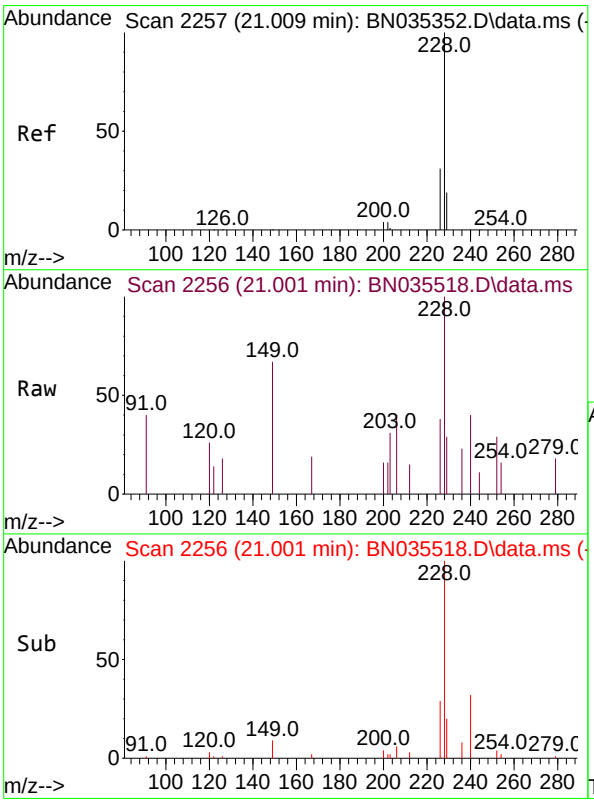
Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	11.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
APPROVED

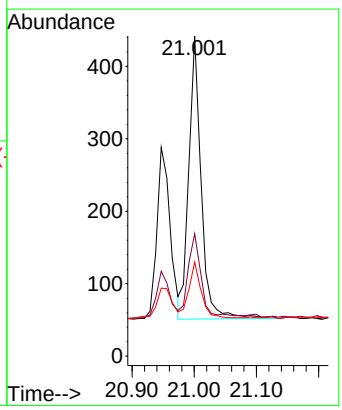
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

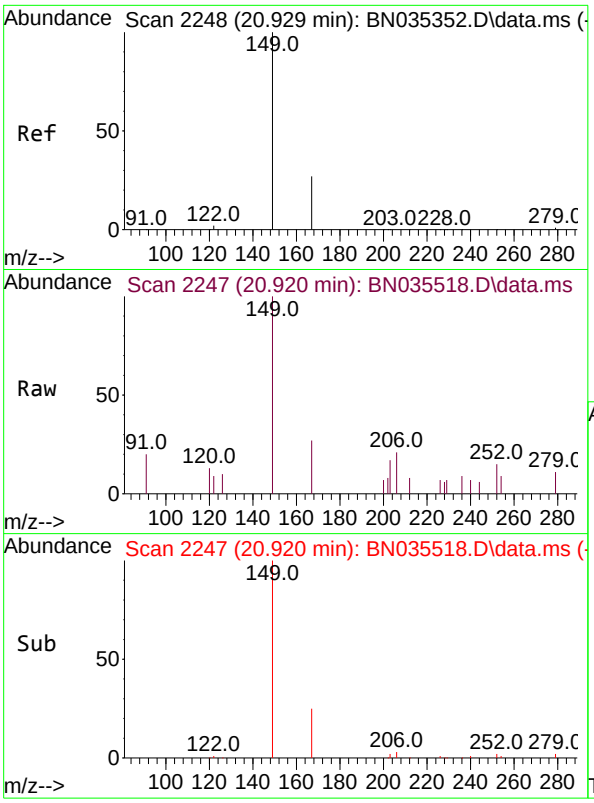


#33
Chrysene
Concen: 0.021 ng
RT: 21.001 min Scan# 2256
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:228 Resp: 547

Ion	Ratio	Lower	Upper
228	100		
226	38.2	24.6	37.0#
229	29.4	15.9	23.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 20.920 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

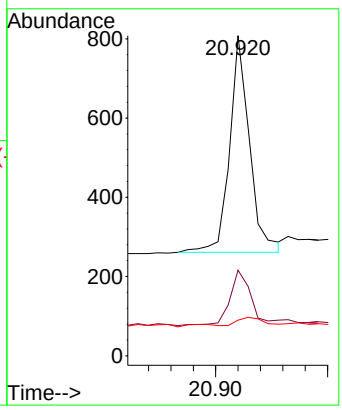
Tgt Ion:149 Resp: 67

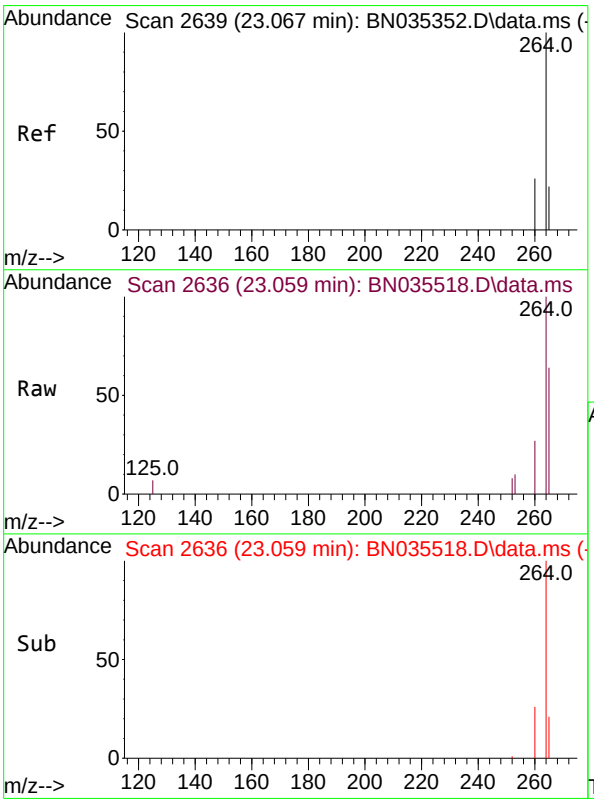
Ion	Ratio	Lower	Upper
149	100		
167	29.9	22.2	33.4
279	4.9	2.7	4.1#

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

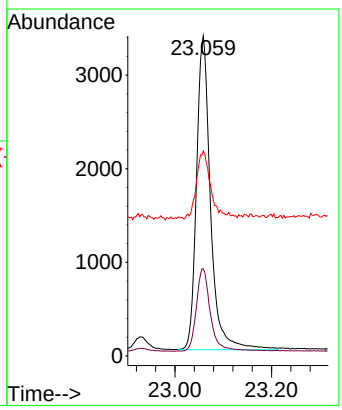


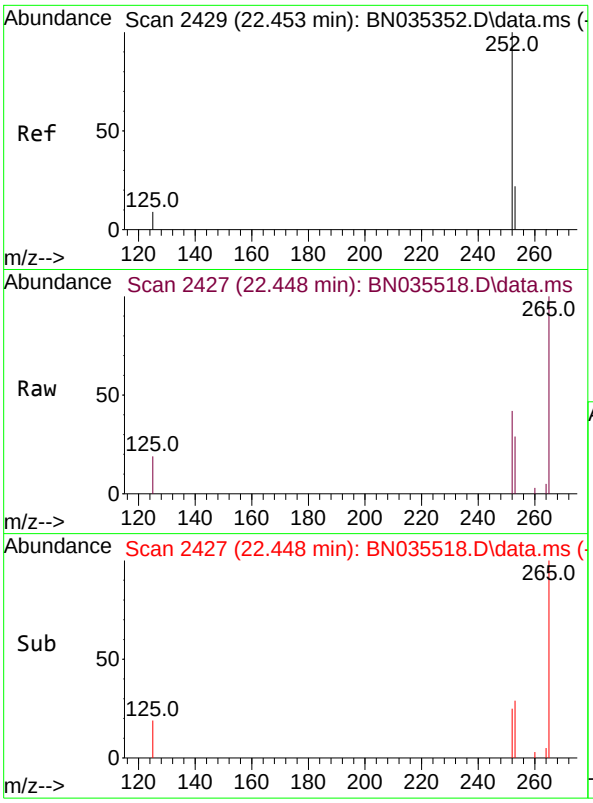


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	64.0	40.2	60.4#





#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.448 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

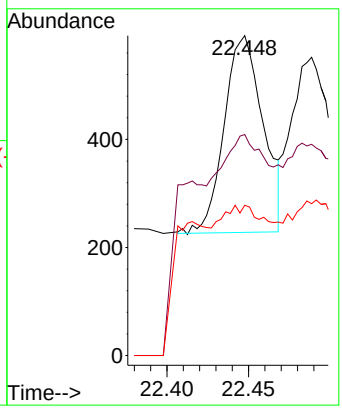
Tgt Ion:252 Resp: 60

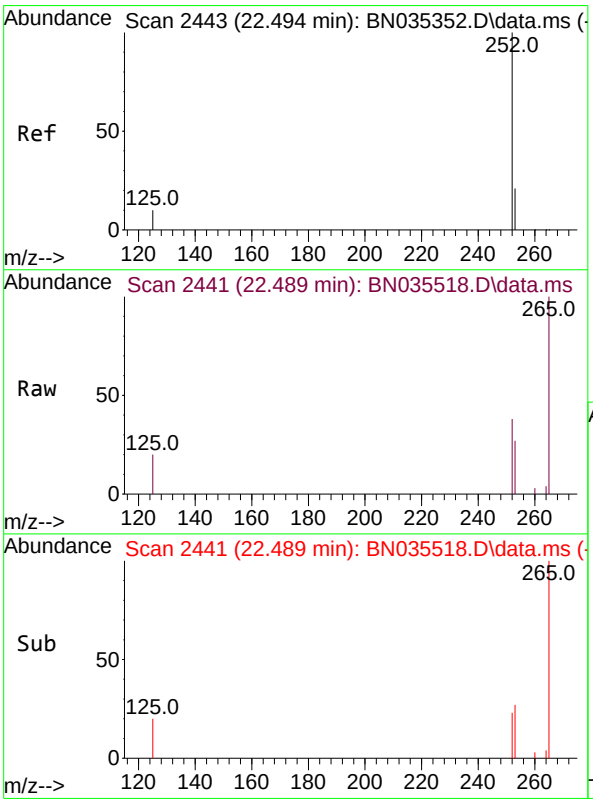
Ion	Ratio	Lower	Upper
252	100		
253	69.1	19.6	29.4#
125	47.0	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

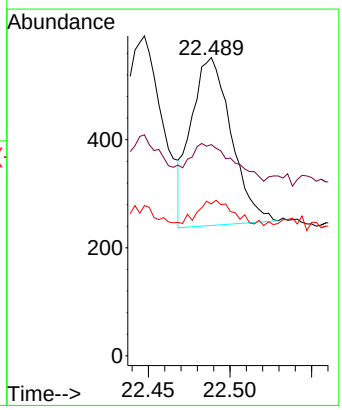




#38
Benzo(k)fluoranthene
Concen: 0.022 ng
RT: 22.489 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:252 Resp: 532

Ion	Ratio	Lower	Upper
252	100		
253	70.8	19.5	29.3#
125	50.9	10.2	15.4#



Raw Data: **BN035519.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/06/24
Project:	CTO WE13	Date Received:	12/06/24
Client Sample ID:	RW5-SP303-20241206	SDG No.:	P5166
Lab Sample ID:	P5166-06	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035519.D	1	12/09/24 11:27	12/09/24 22:31	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.45		30 - 150		112%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.52		30 - 150		129%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.74	*	58 - 132		184%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1260	7.301				
1146-65-2	Naphthalene-d8	3410	10.041				
15067-26-2	Acenaphthene-d10	2620	13.957				
1517-22-2	Phenanthrene-d10	6480	16.723				
1719-03-5	Chrysene-d12	5570	20.974				
1520-96-3	Perylene-d12	5310	23.065				

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

Sample Results: **BN035519.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035519.D
Acq On : 09 Dec 2024 22:31
Operator : RC/JU
Sample : P5166-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:28:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1257	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	3408	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	2615	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	6478	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	5571	0.400	ng	0.00
35) Perylene-d12	23.065	264	5305	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	493	0.157	ng	-0.01
5) Phenol-d6	6.506	99	336	0.089	ng	0.00
8) Nitrobenzene-d5	8.440	82	942m	0.453	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2396	0.449	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	543	0.293	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4078	0.413	ng	0.00
27) Fluoranthene-d10	18.775	212	9482	0.516	ng	0.00
31) Terphenyl-d14	19.403	244	8094	0.737	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.929	149	808	0.105	ng	# 98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035519.D
Acq On : 09 Dec 2024 22:31
Operator : RC/JU
Sample : P5166-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 10 01:28:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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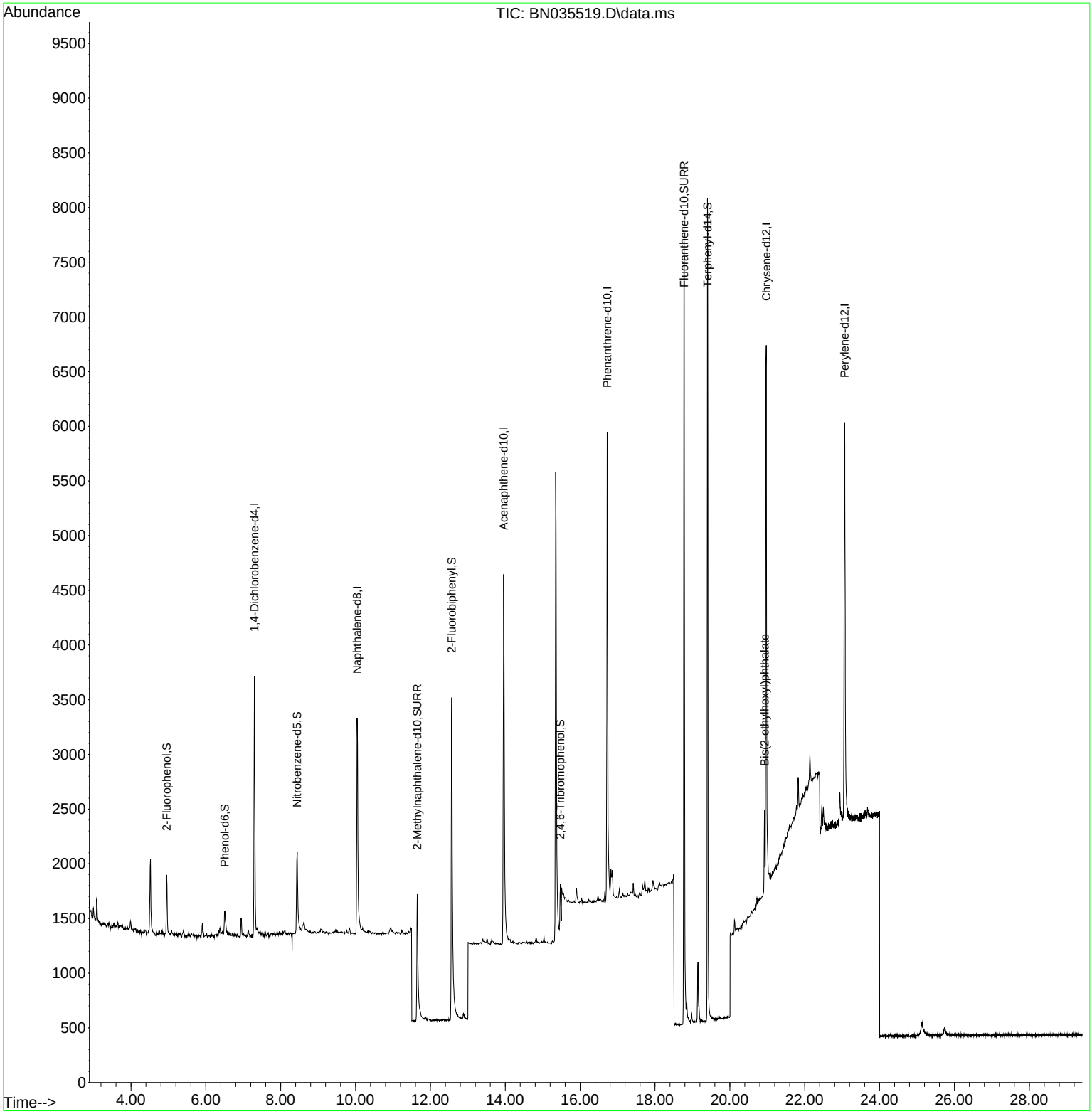
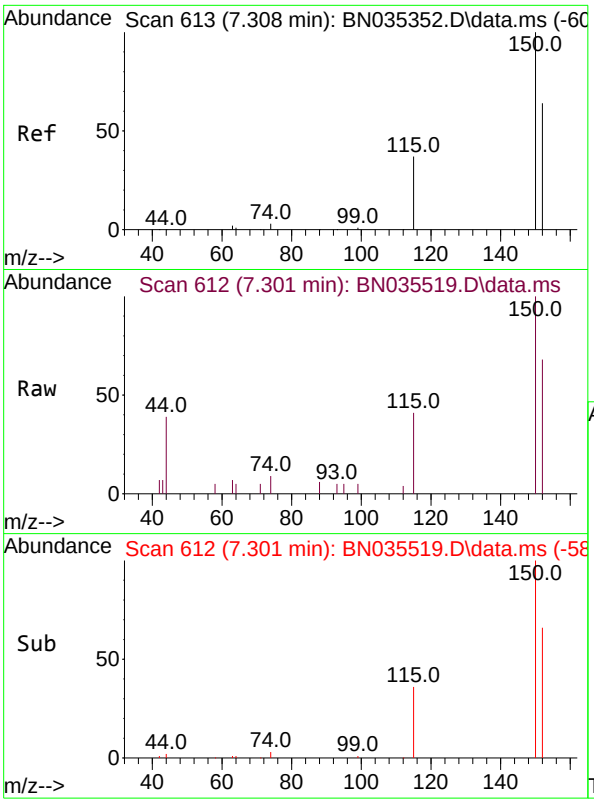
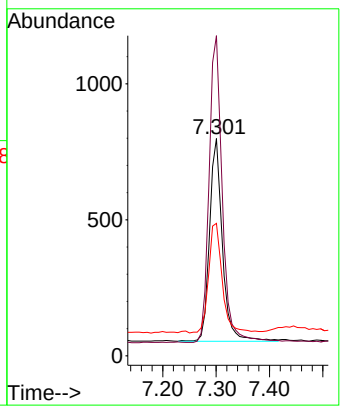




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:152 Resp: 125

Ion	Ratio	Lower	Upper
152	100		
150	147.3	124.0	186.0
115	61.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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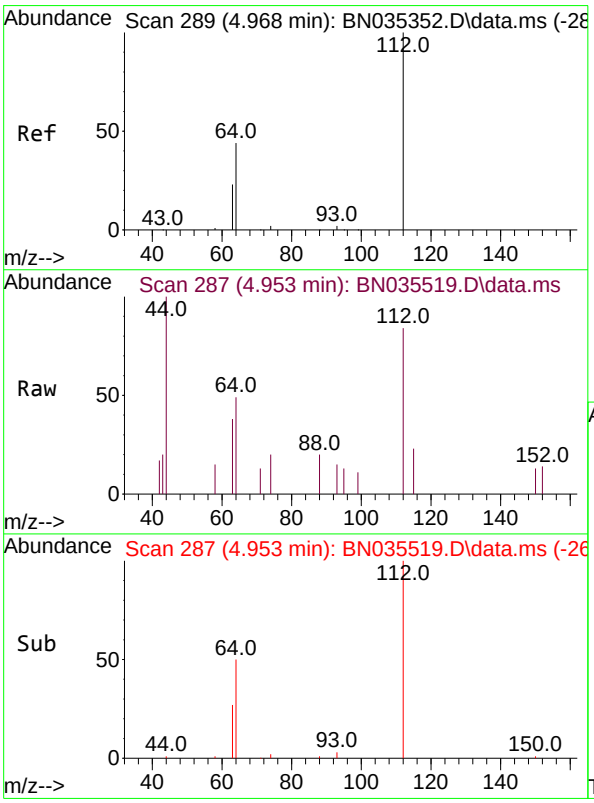
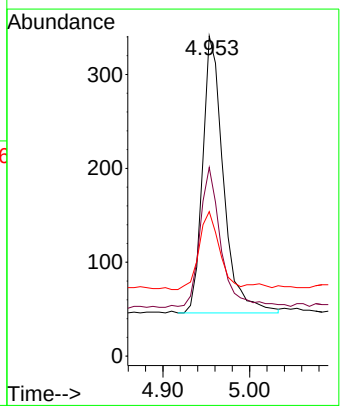
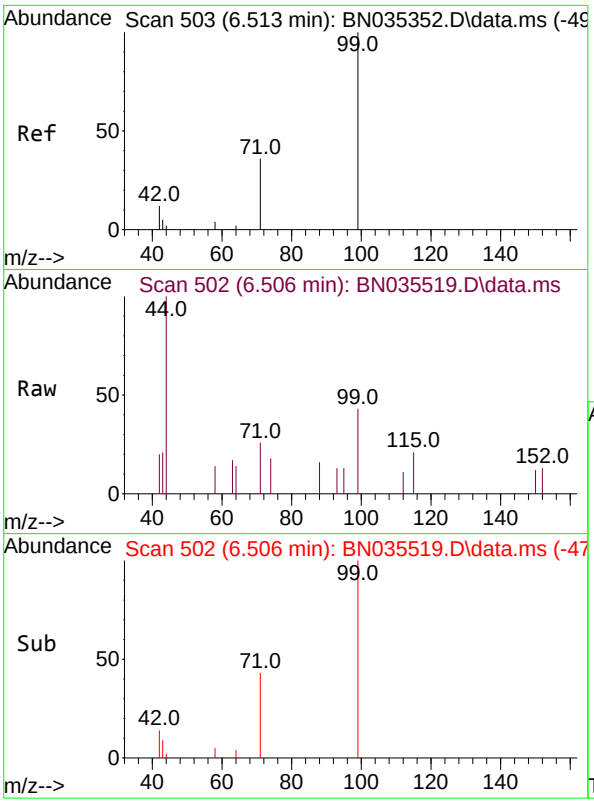


#4
2-Fluorophenol
Concen: 0.157 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:112 Resp: 493

Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	27.4	21.0	31.6

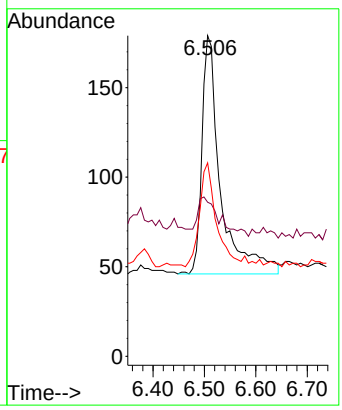




#5
Phenol-d6
Concen: 0.089 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion: 99 Resp: 33(

Ion	Ratio	Lower	Upper
99	100		
42	18.8	11.4	17.2#
71	39.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
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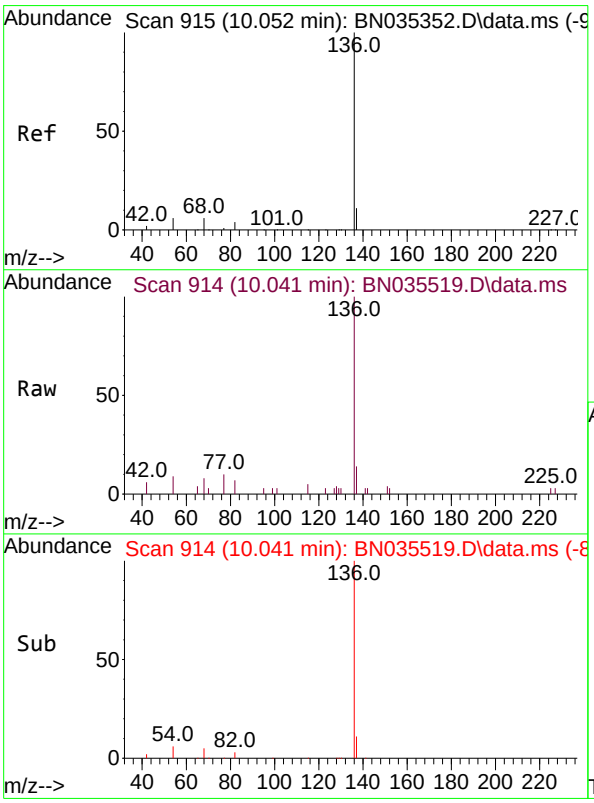
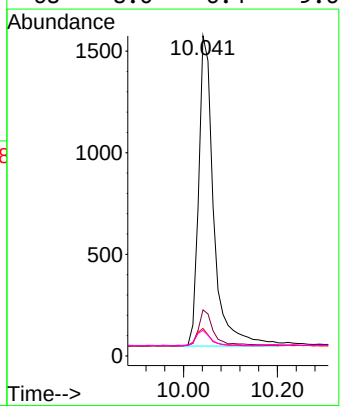
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

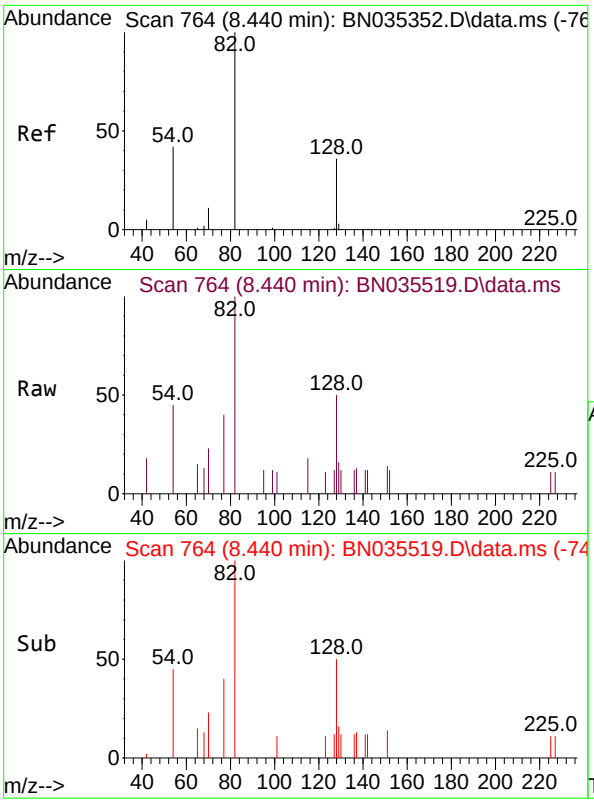


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:136 Resp: 3408

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.2	15.2
54	8.6	6.1	9.1
68	8.0	6.4	9.6

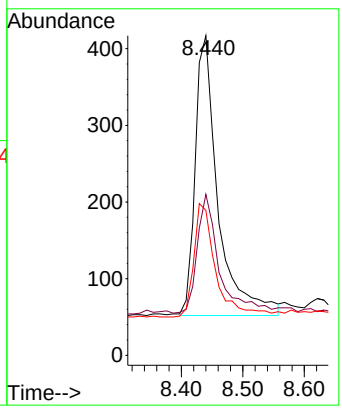




#8
Nitrobenzene-d5
Concen: 0.453 ng m
RT: 8.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion: 82 Resp: 94

Ion	Ratio	Lower	Upper
82	100		
128	50.4	33.4	50.0
54	45.3	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
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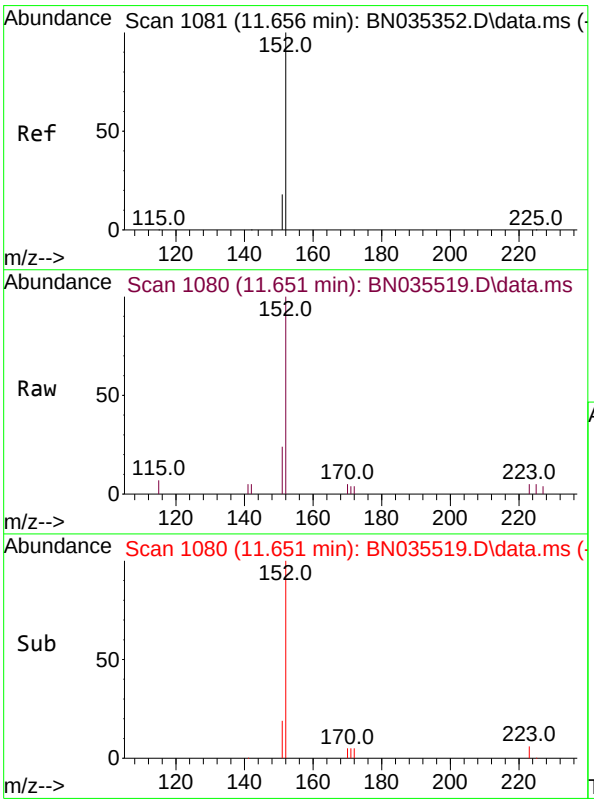
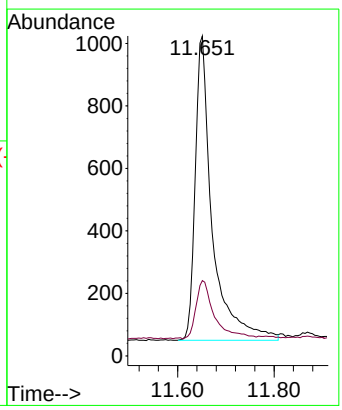
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

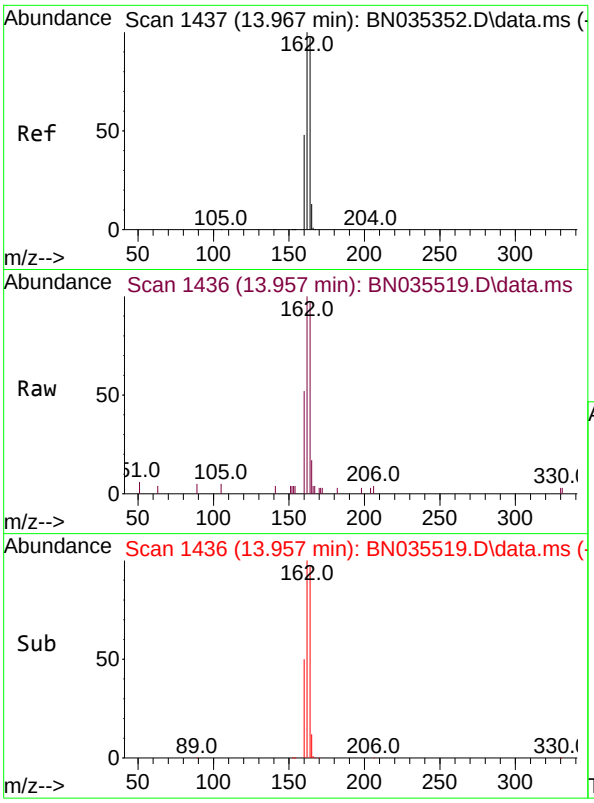


#11
2-Methylnaphthalene-d10
Concen: 0.449 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:152 Resp: 2396

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

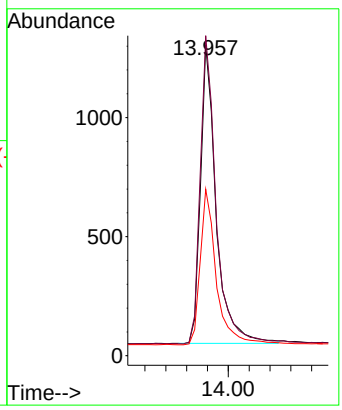




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:164 Resp: 261

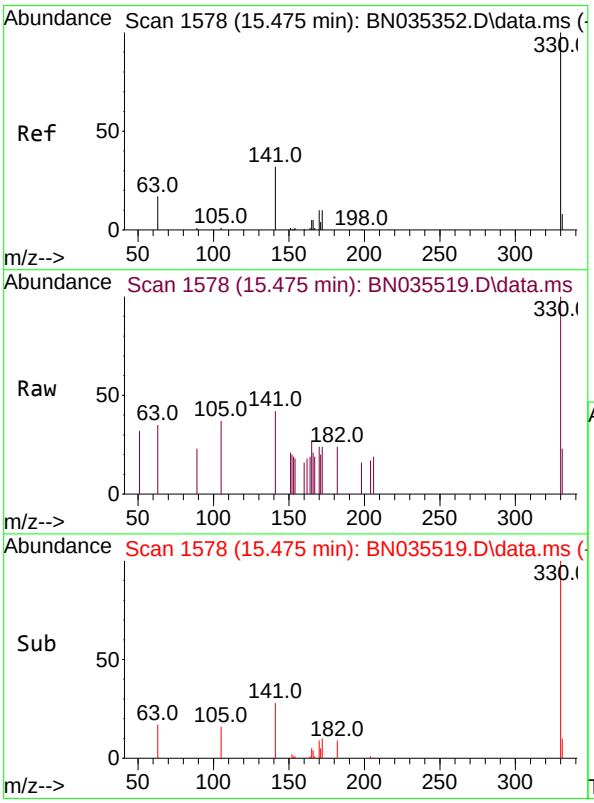
Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.2	123.2
160	53.6	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
APPROVED

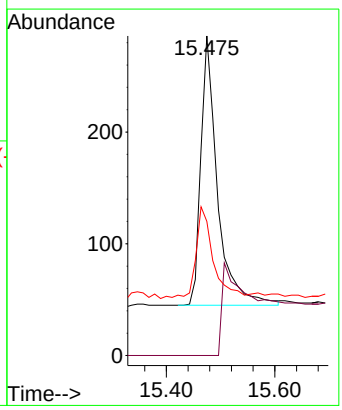
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

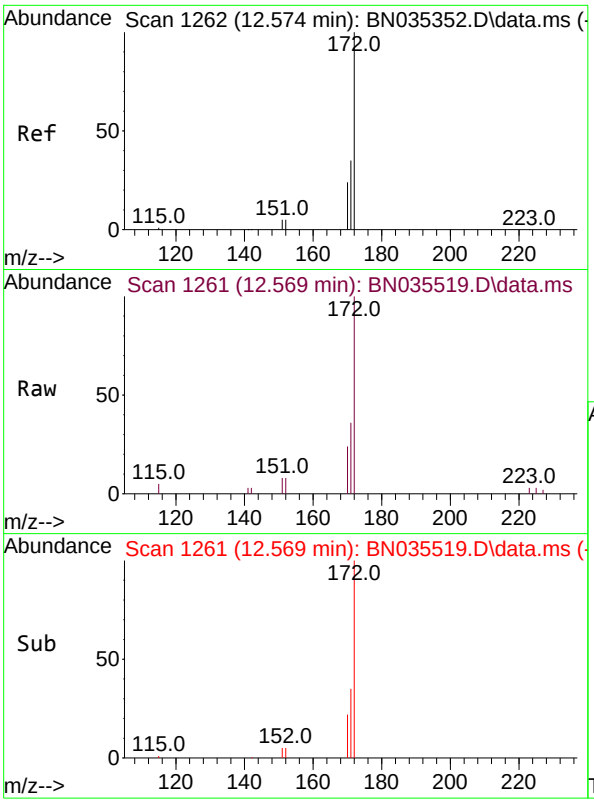


#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:330 Resp: 543

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.1	26.6	40.0

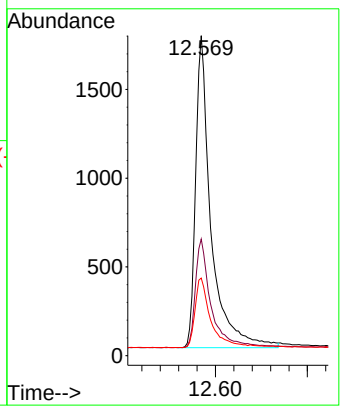




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:172 Resp: 407

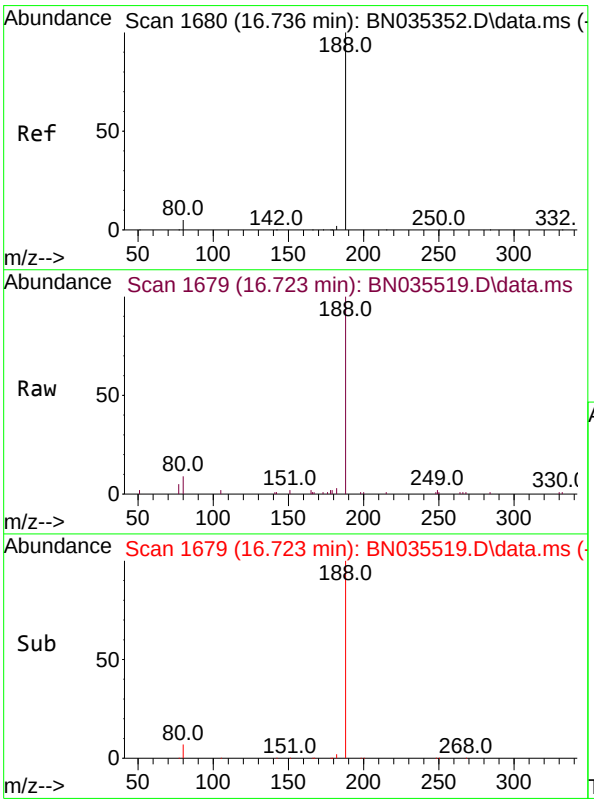
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.2	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
APPROVED

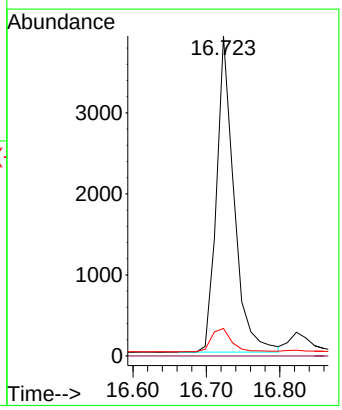
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

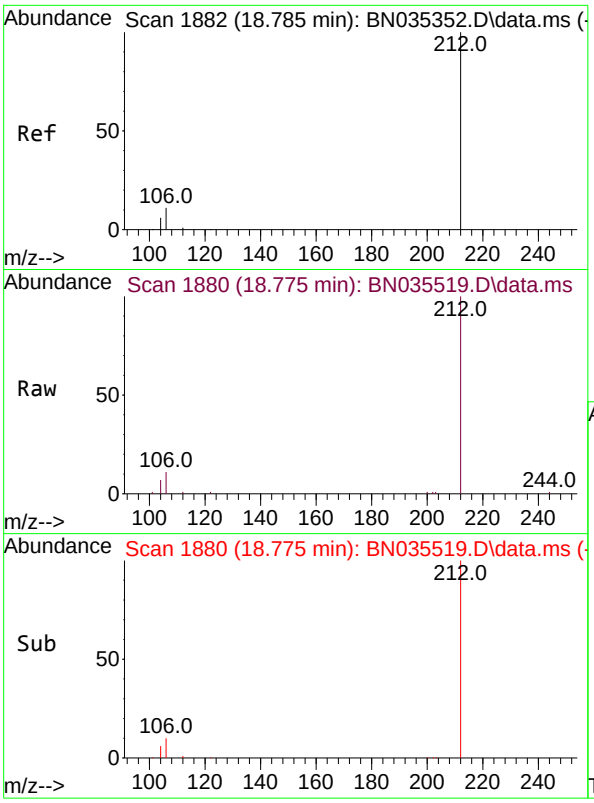


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:188 Resp: 6478

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

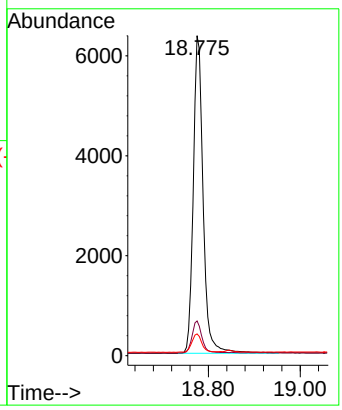




#27
Fluoranthene-d10
Concen: 0.516 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:212 Resp: 948

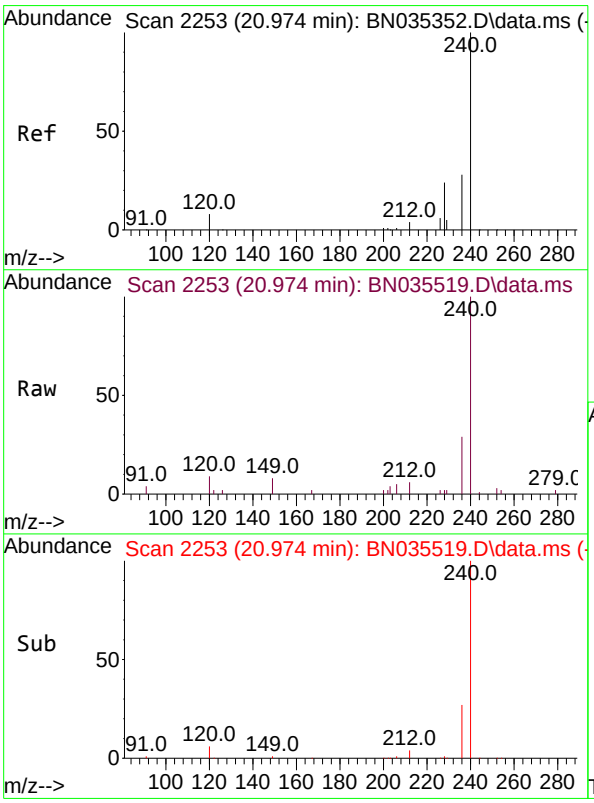
Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
APPROVED

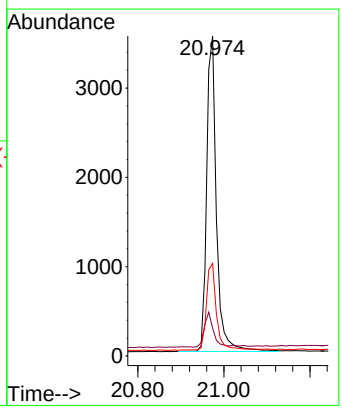
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

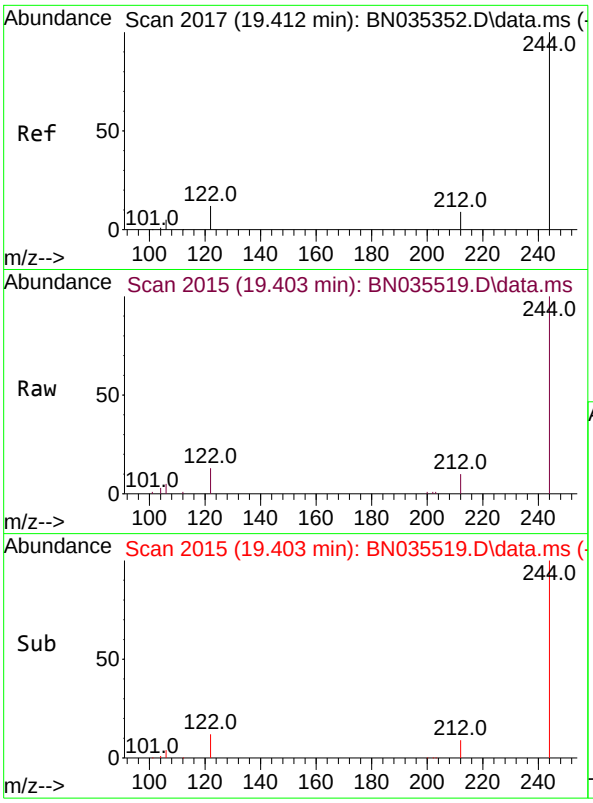


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:240 Resp: 5571

Ion	Ratio	Lower	Upper
240	100		
120	8.7	7.9	11.9
236	28.9	22.9	34.3

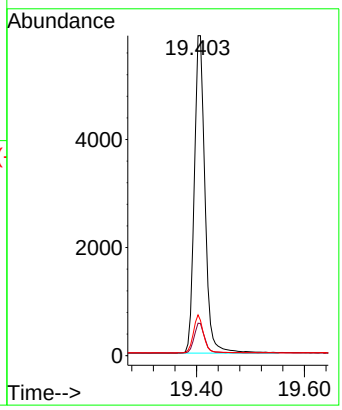




#31
Terphenyl-d14
Concen: 0.737 ng
RT: 19.403 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:244 Resp: 809

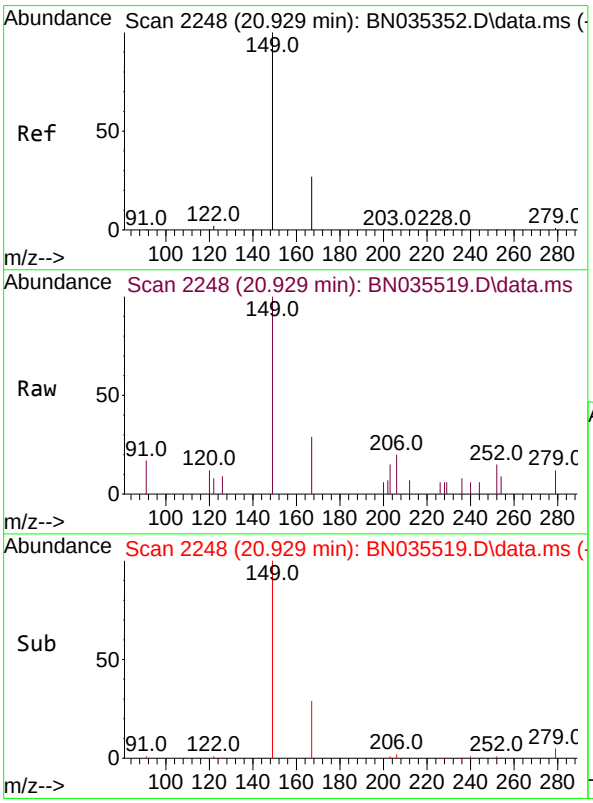
Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
APPROVED

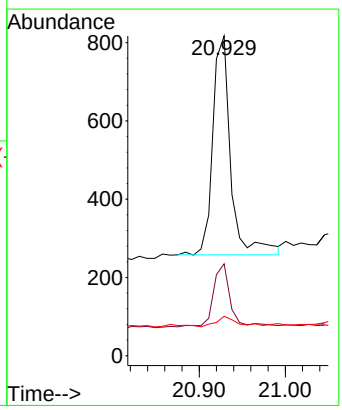
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

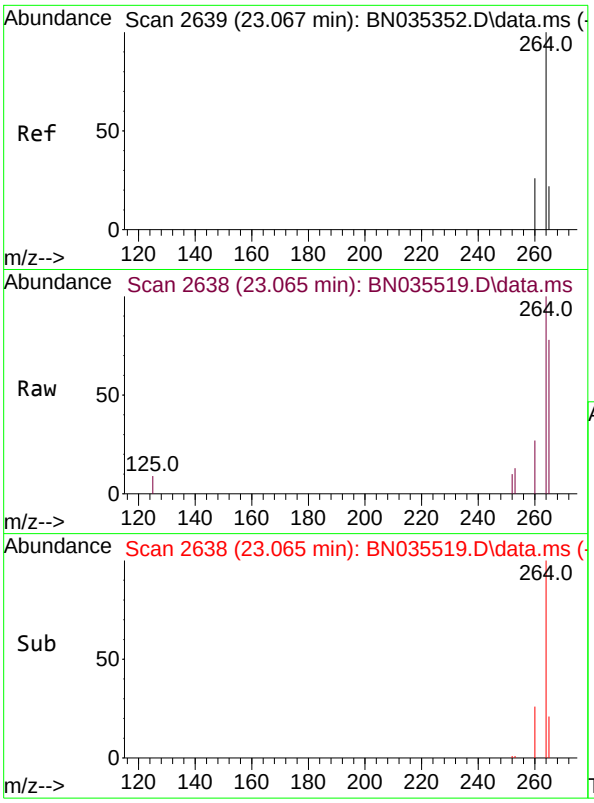


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.105 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:149 Resp: 808

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.2	33.4
279	5.7	2.7	4.1#

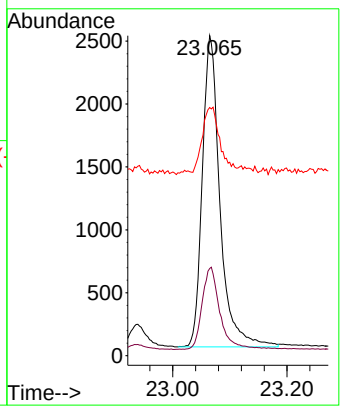




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.065 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:264 Resp: 530

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	77.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG No.: P5166

Instrument ID: BNA_N Calibration Date(s): 11/27/2024 11/27/2024

Calibration Time(s): 15:34 19:09

LAB FILE ID: RRF0.1 = BN035350.D RRF0.2 = BN035351.D RRF0.4 = BN035352.D
RRF0.8 = BN035353.D RRF1.6 = BN035354.D RRF3.2 = BN035355.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.591	0.603	0.619	0.615	0.659	0.639	0.626	4.2
Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.134	4.1
2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	1.001	5.9
Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.204	2.7
Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.244	5.3
2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.512	1.7
2,4,6-Tribromophenol	0.273	0.258	0.257	0.268	0.293	0.311	0.284	9.7
Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.789	3.1
1,4-Dioxane	0.406	0.417	0.376	0.380	0.392	0.357	0.382	6.5

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.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	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112724.M

36)		Indeno(1,2,3-c...	1.411	1.489	1.532	1.554	1.660	1.615	1.685	1.564	6.22
37)		Benzo(b)fluora...	1.305	1.348	1.313	1.378	1.827	1.463	1.608	1.463	13.12
38)		Benzo(k)fluora...	1.444	1.376	1.402	1.419	1.527	1.447	1.468	1.440	3.39
39)	C	Benzo(a)pyrene	1.204	1.156	1.146	1.171	1.256	1.232	1.271	1.205	4.11
40)		Dibenzo(a,h)an...	1.104	1.187	1.194	1.226	1.315	1.280	1.332	1.234	6.55
41)		Benzo(g,h,i)pe...	1.188	1.238	1.248	1.269	1.360	1.330	1.394	1.289	5.71

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	327m	0.065	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4695m	0.107	ng		
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

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

ICAL Form

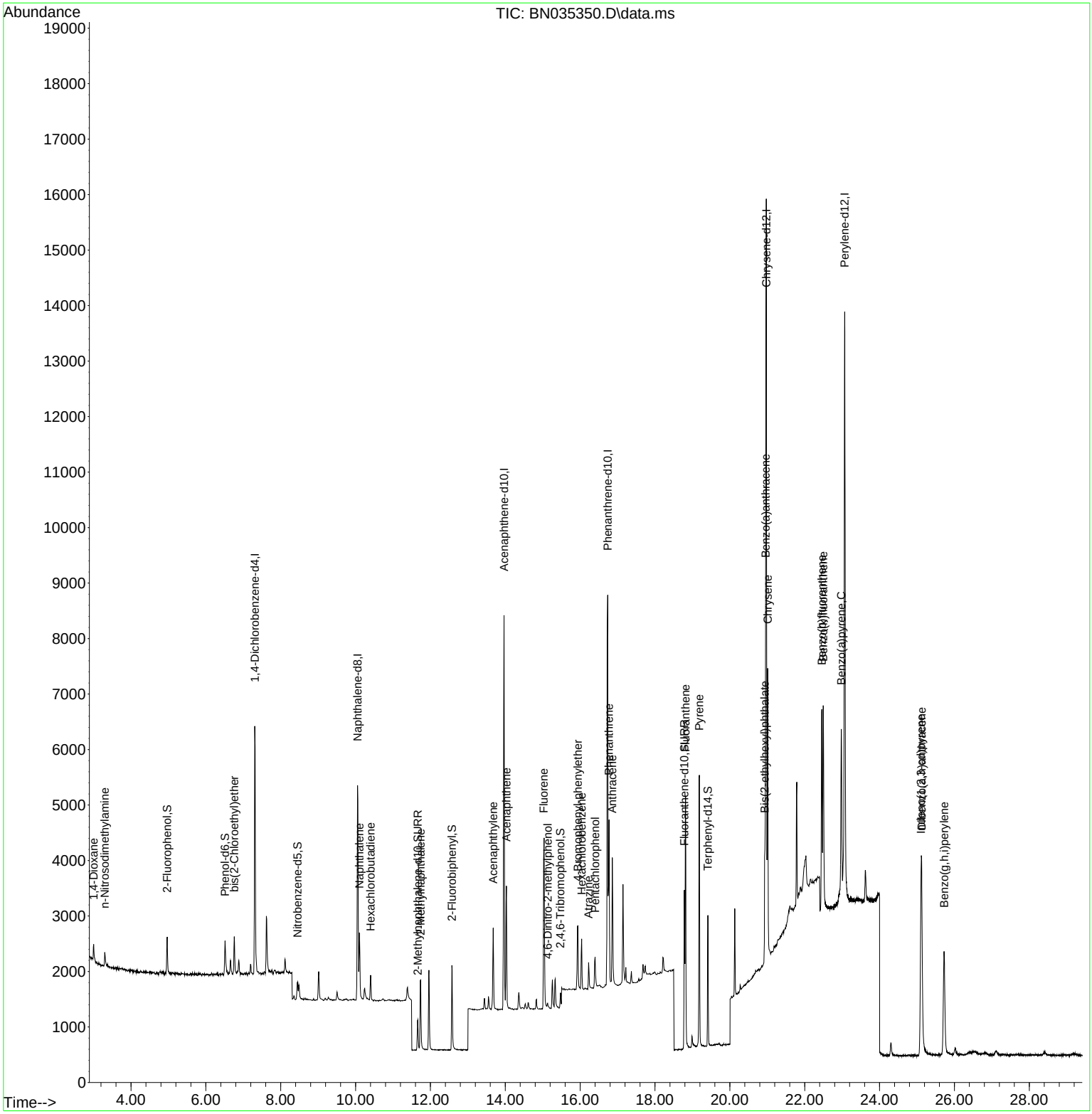
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

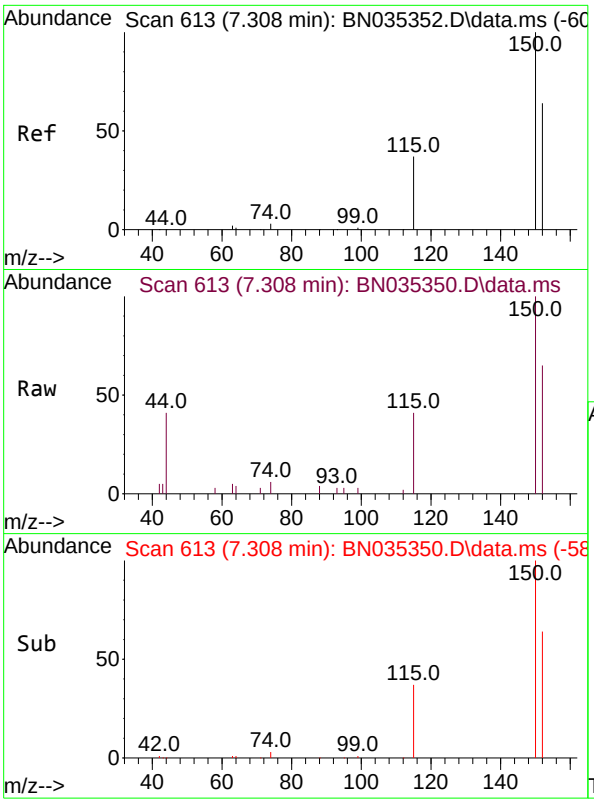
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

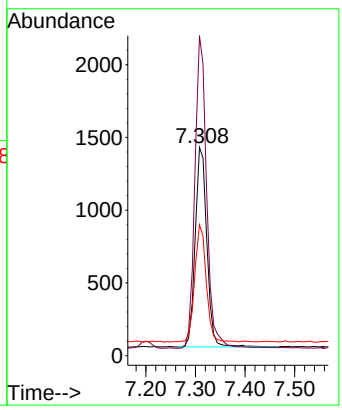




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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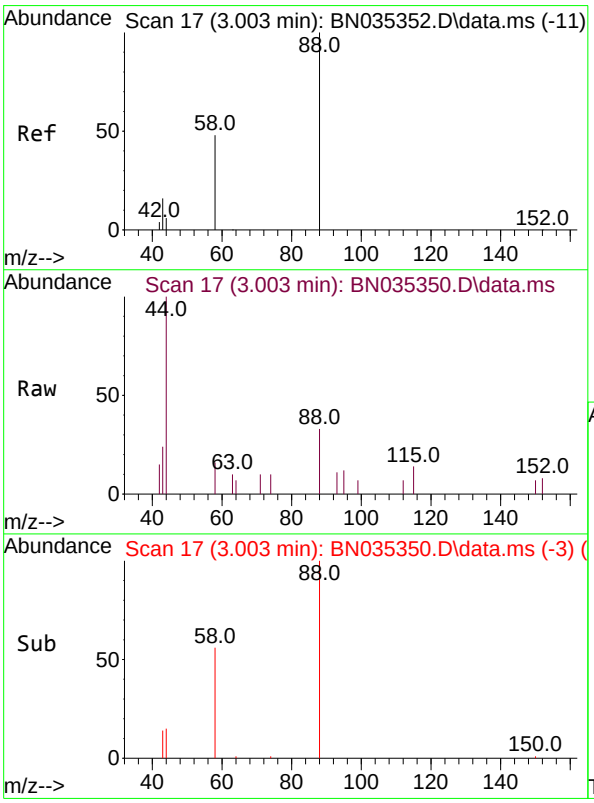
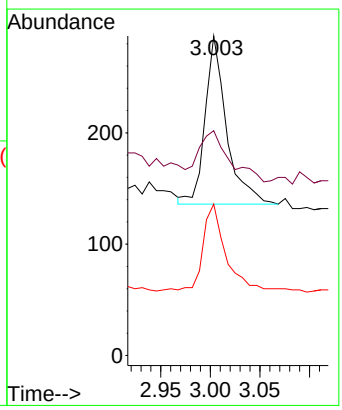
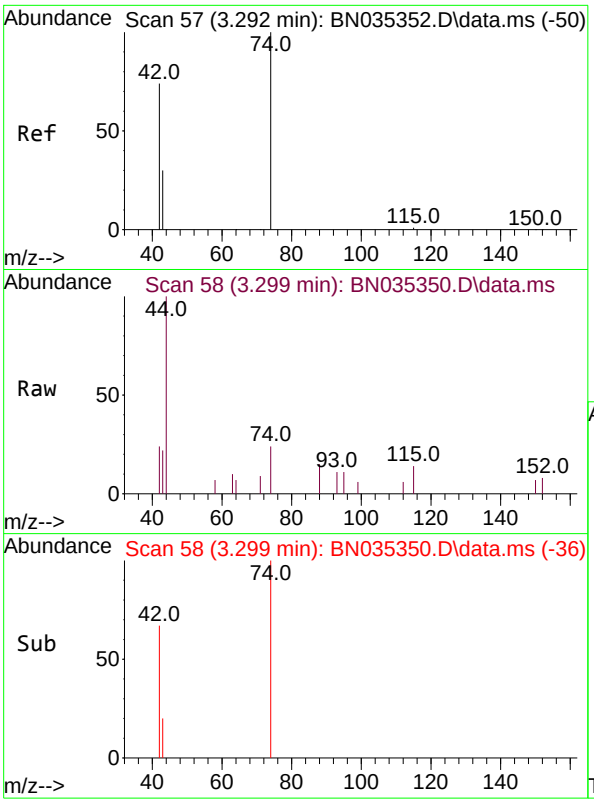


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7

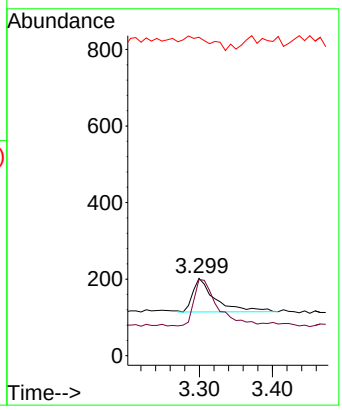




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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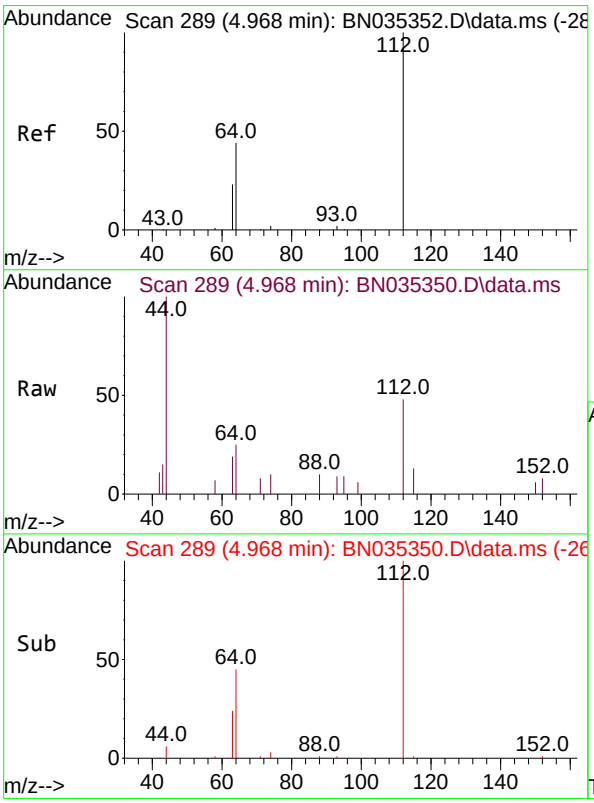
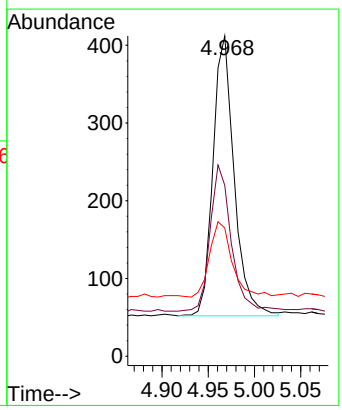
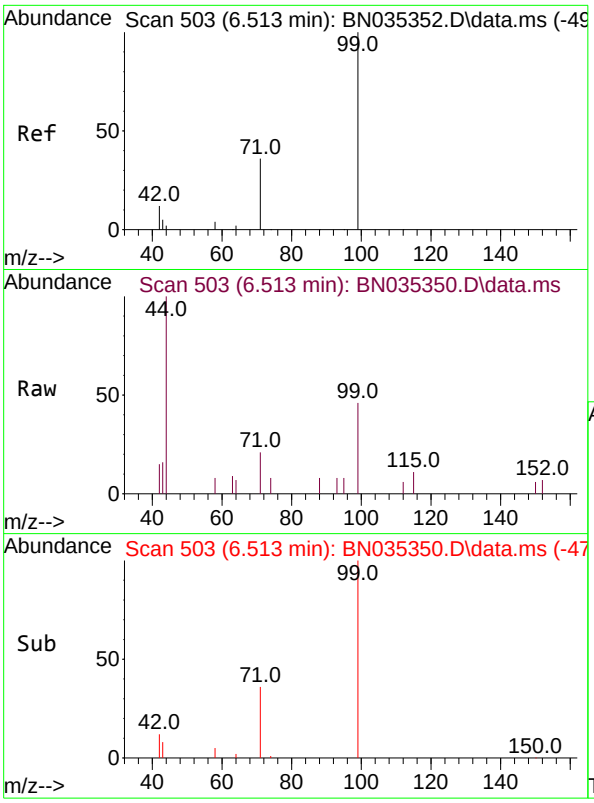


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6

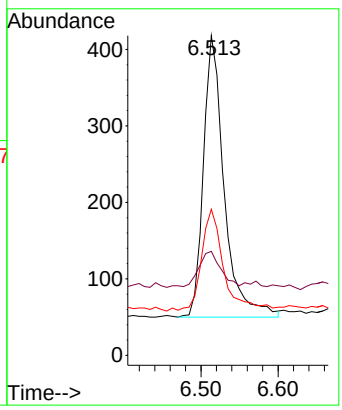




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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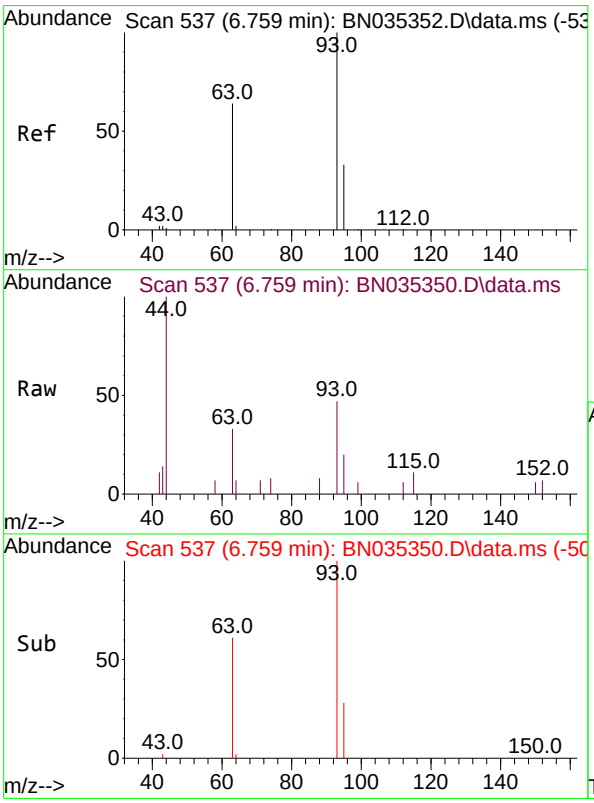
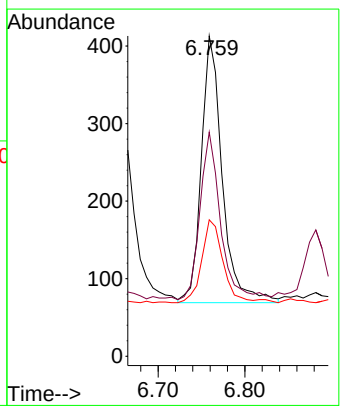
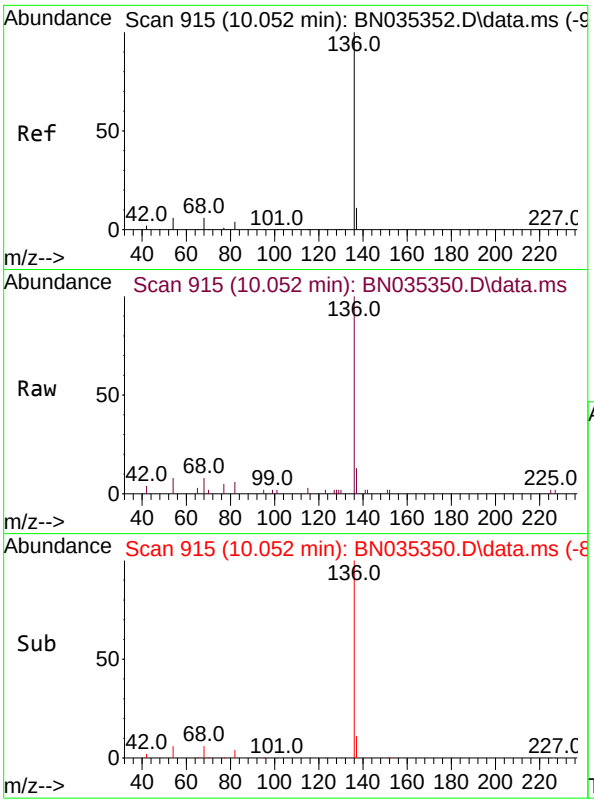


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5

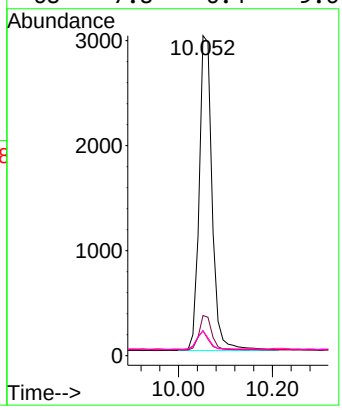




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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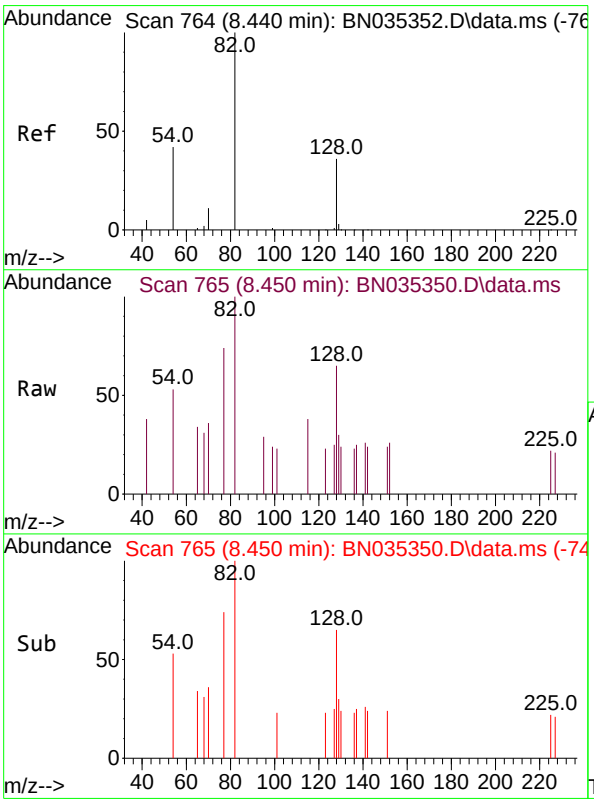
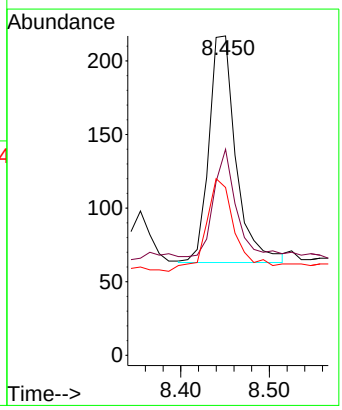
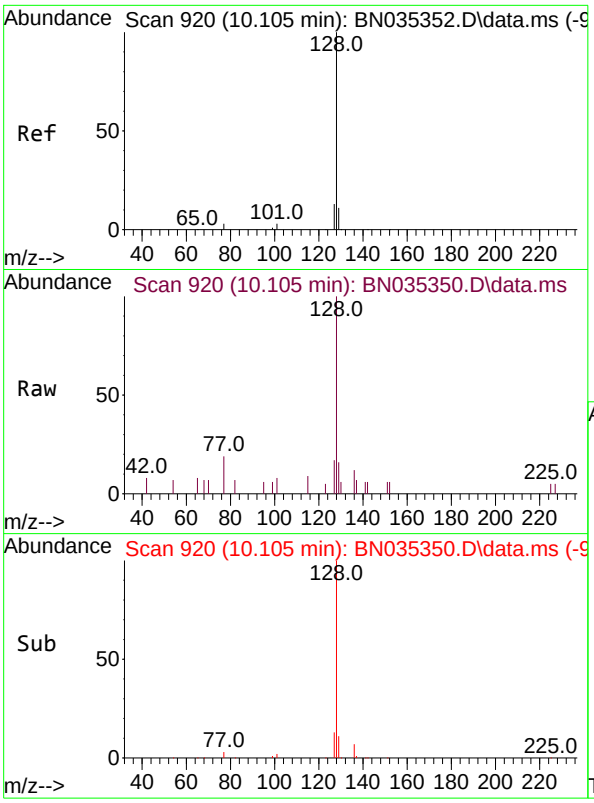


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1





#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:128 Resp: 152

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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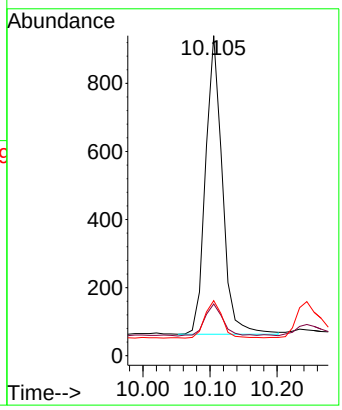
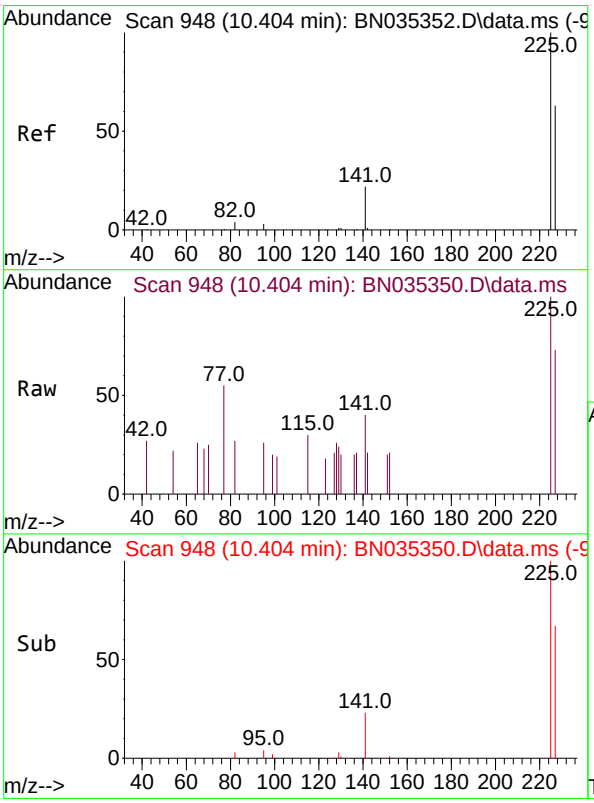
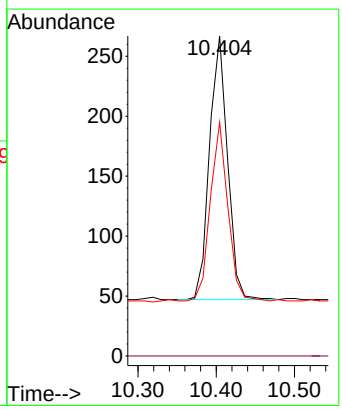


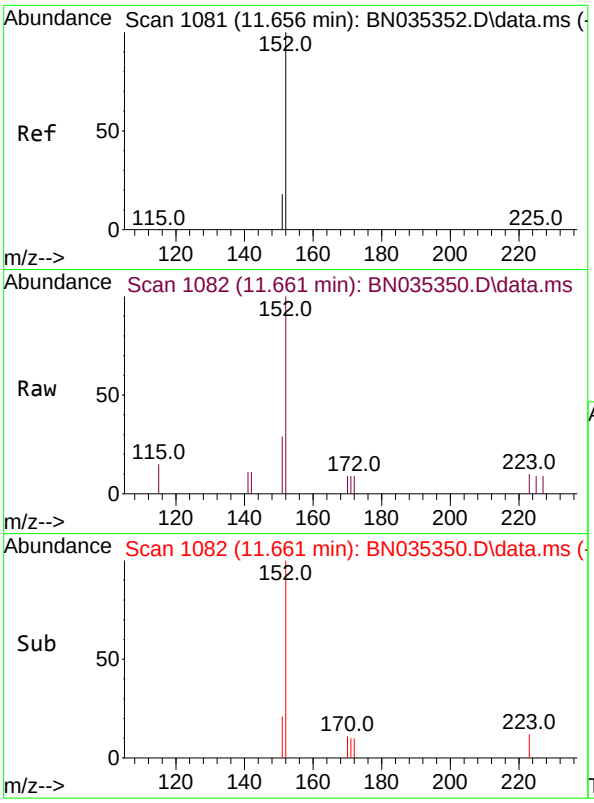


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9

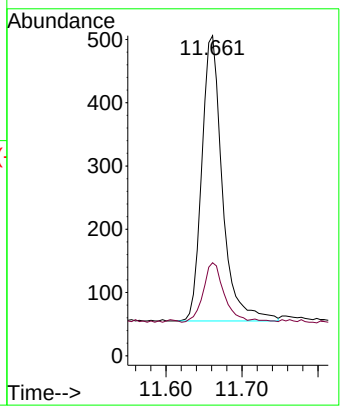




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85(

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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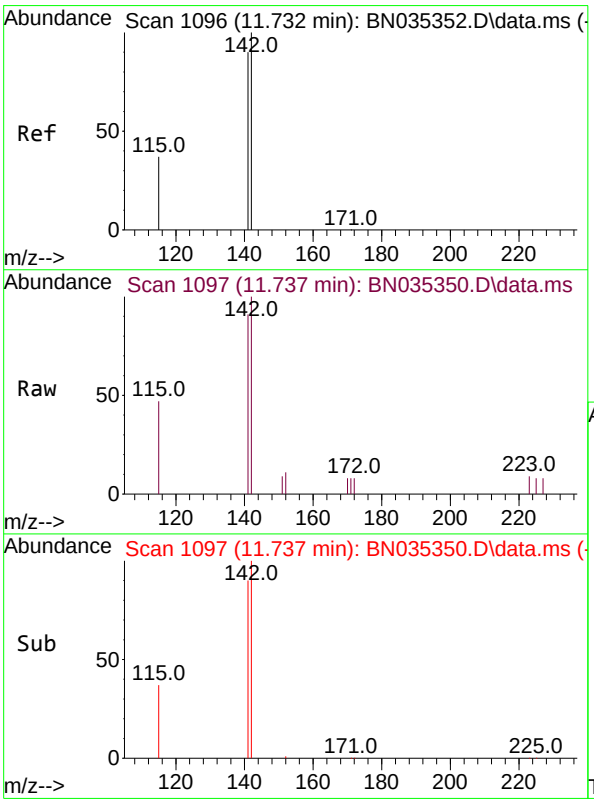
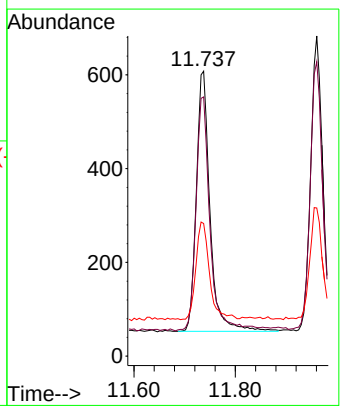
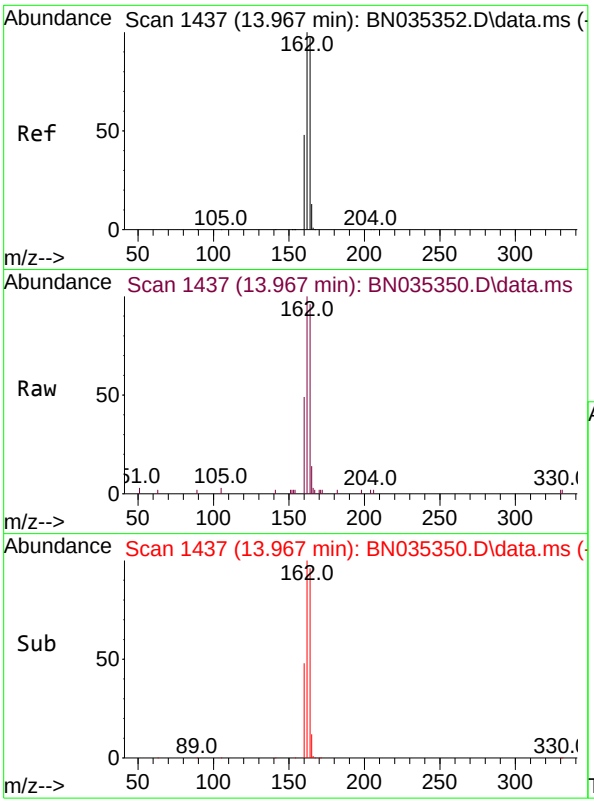


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:164 Resp: 407

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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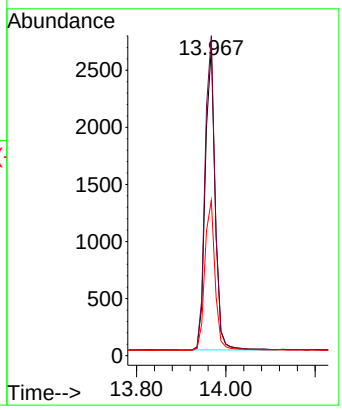
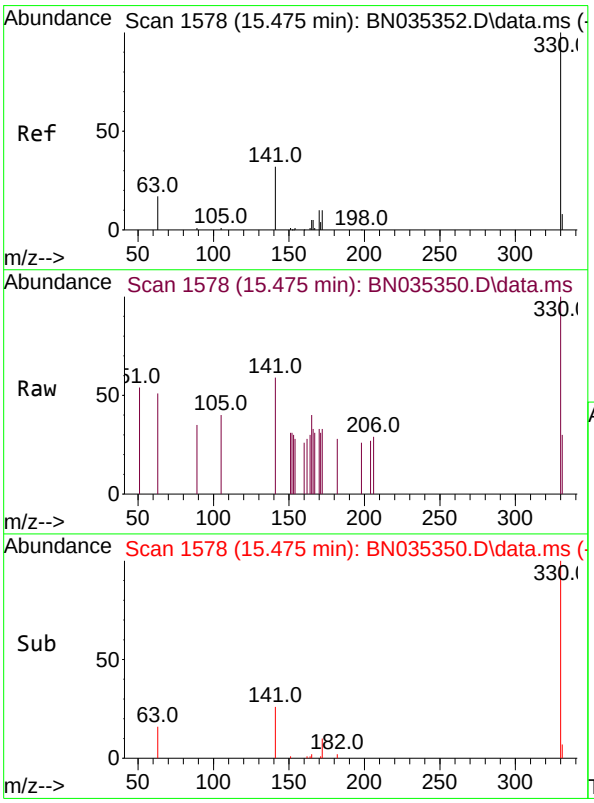
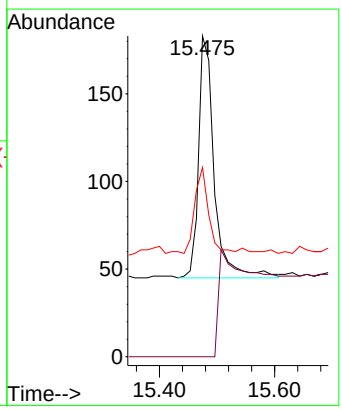


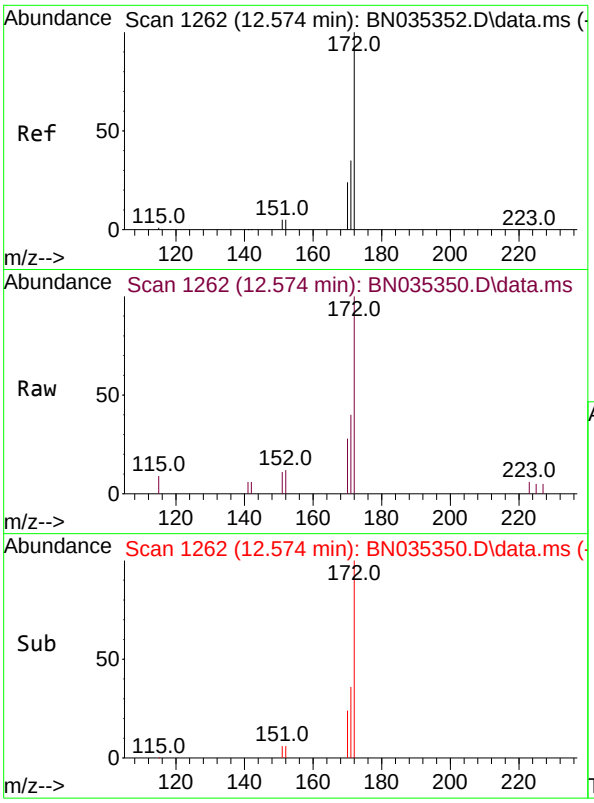


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0

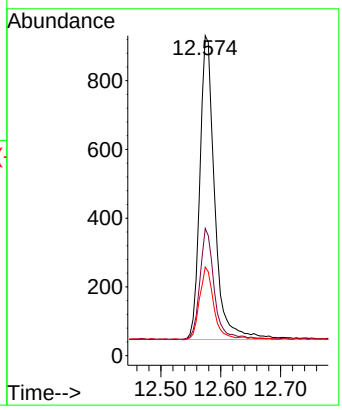




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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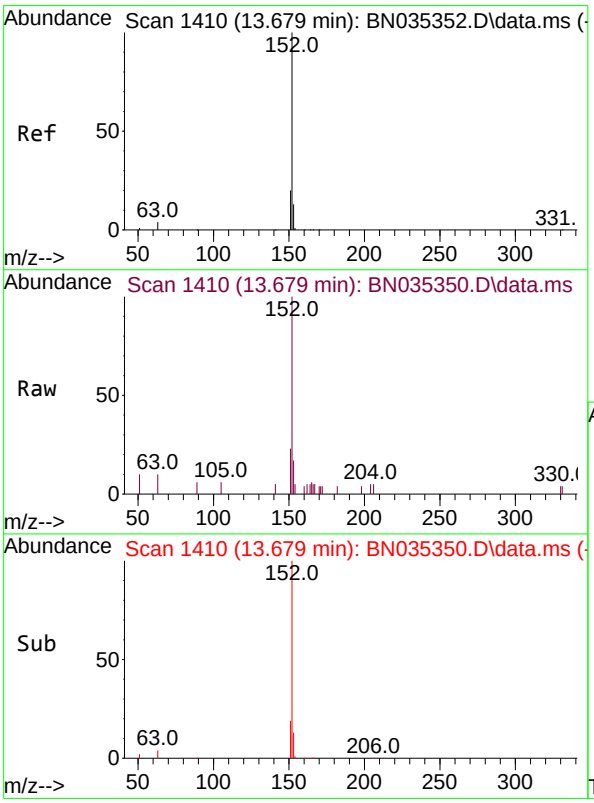
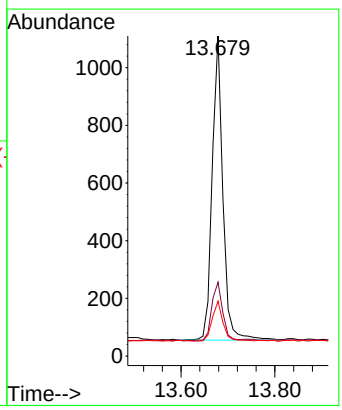
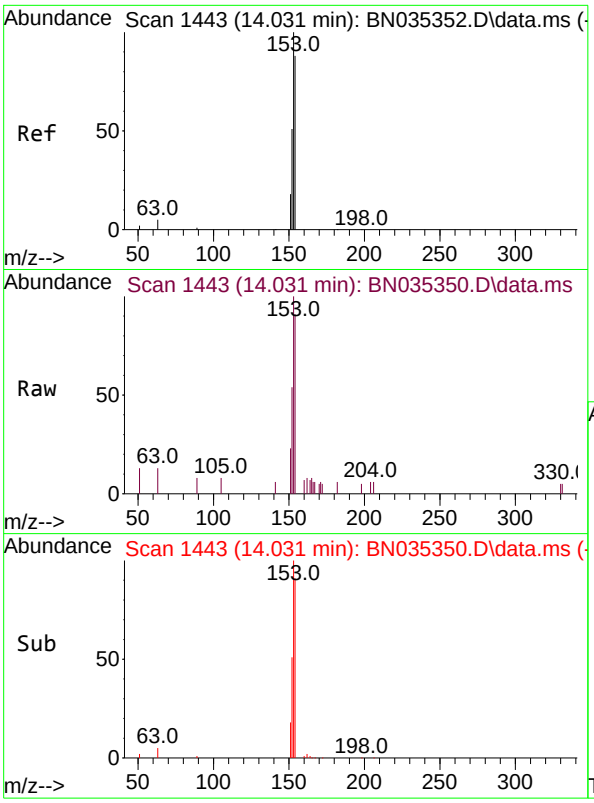


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6

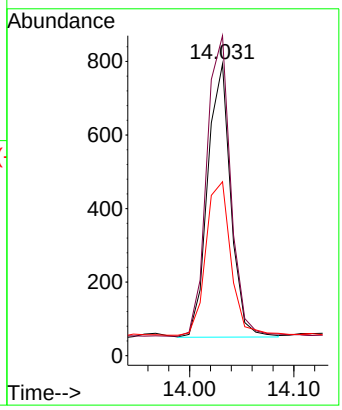




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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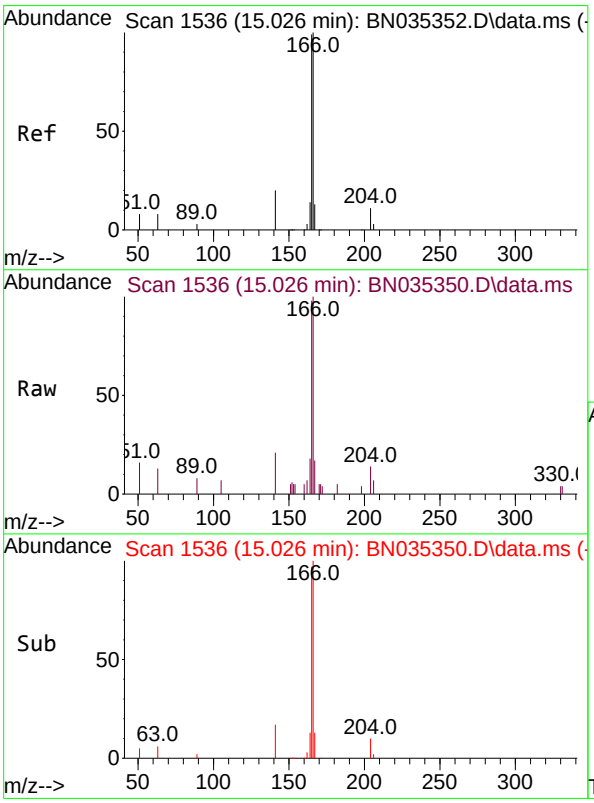
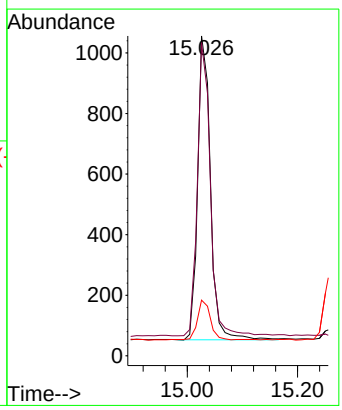
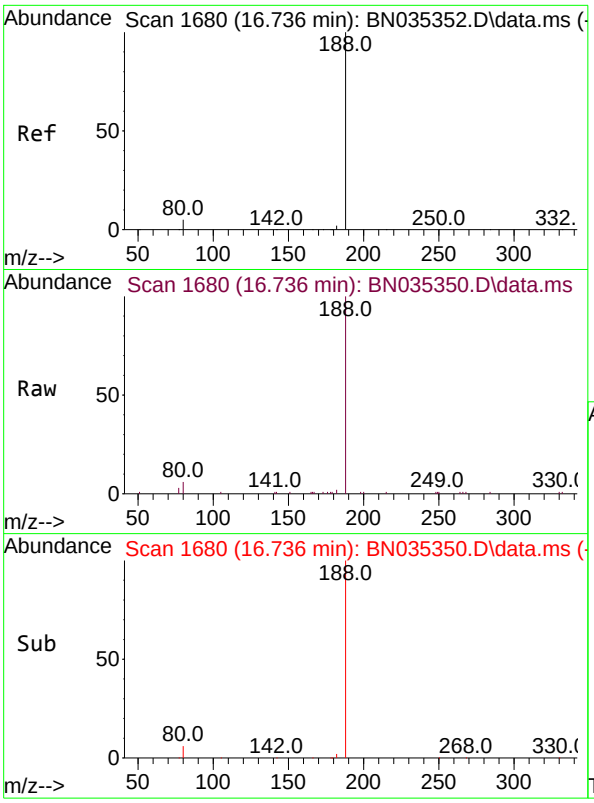


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2

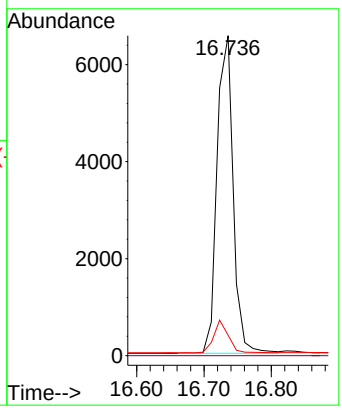




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:188 Resp: 1085

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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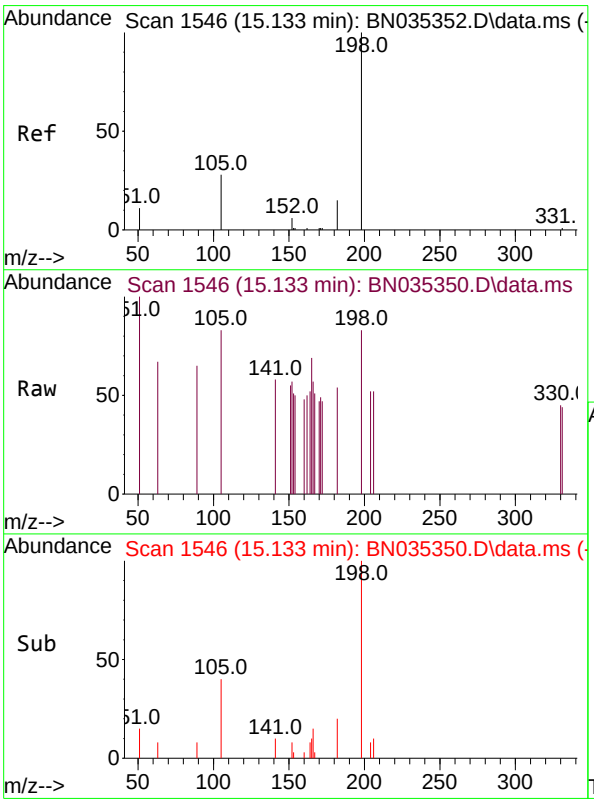
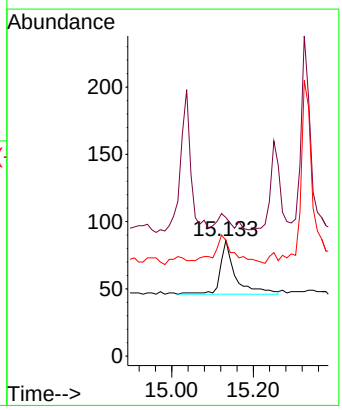
Supervised By :mohammad ahmed 12/03/2024

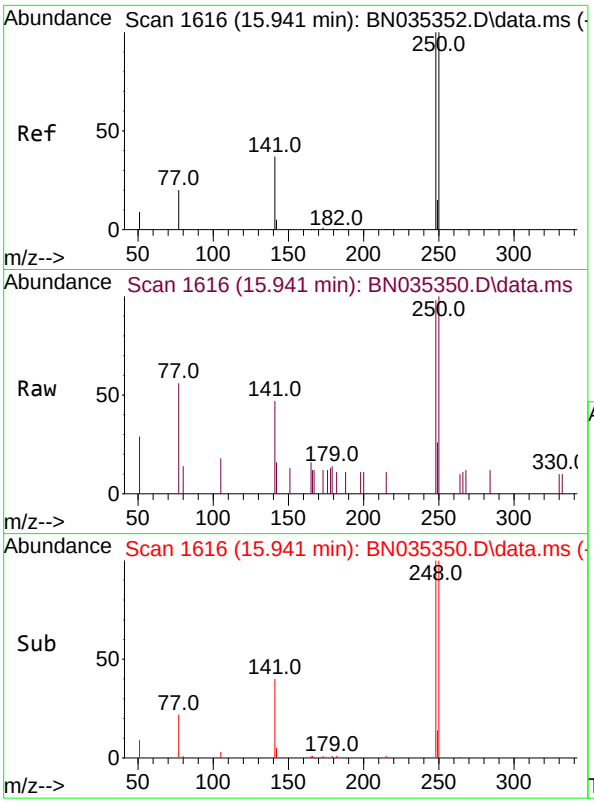


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#

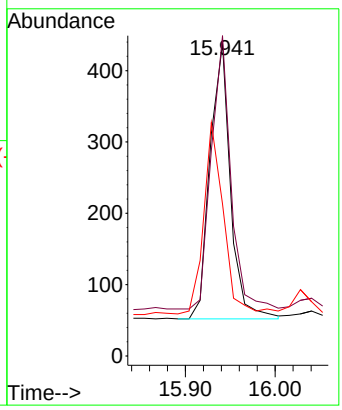




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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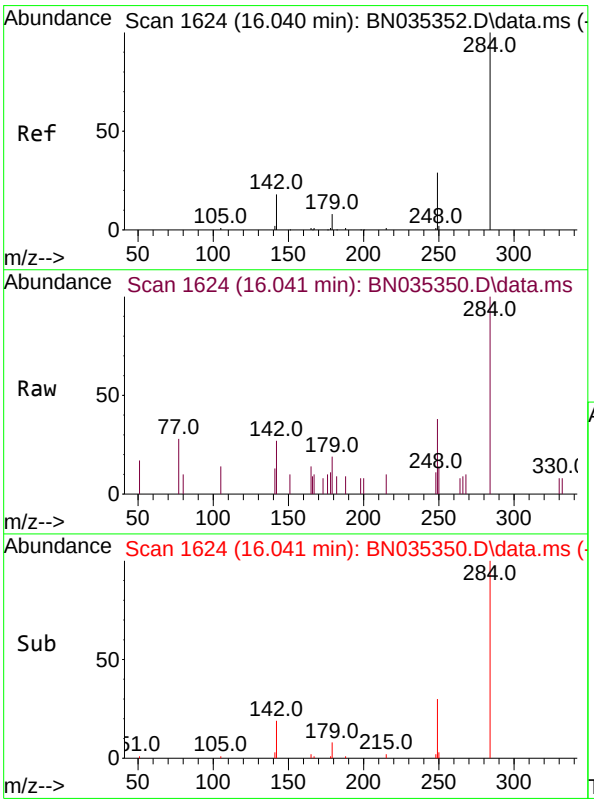
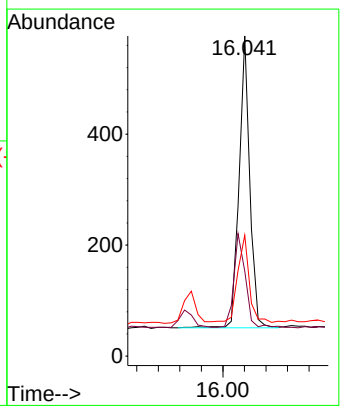
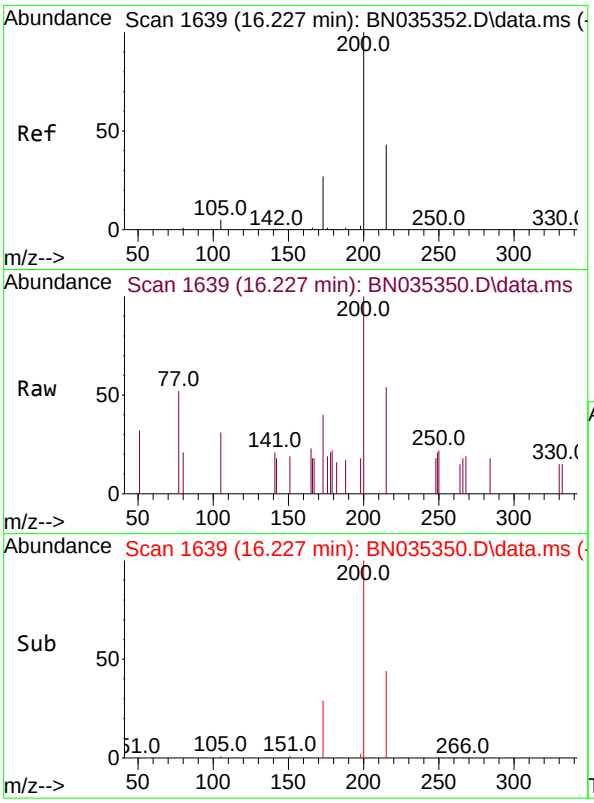


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8

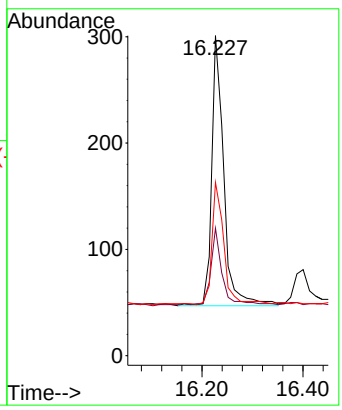




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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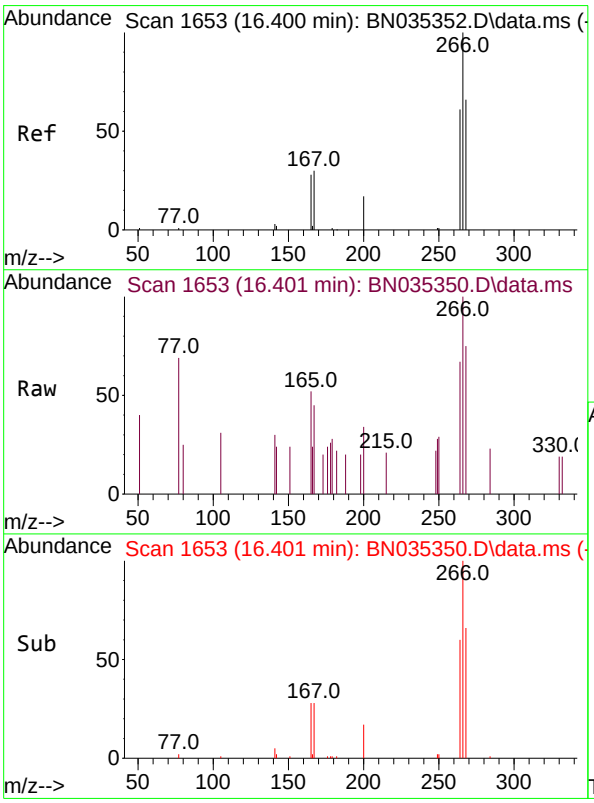
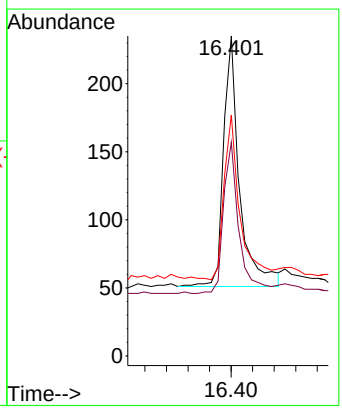
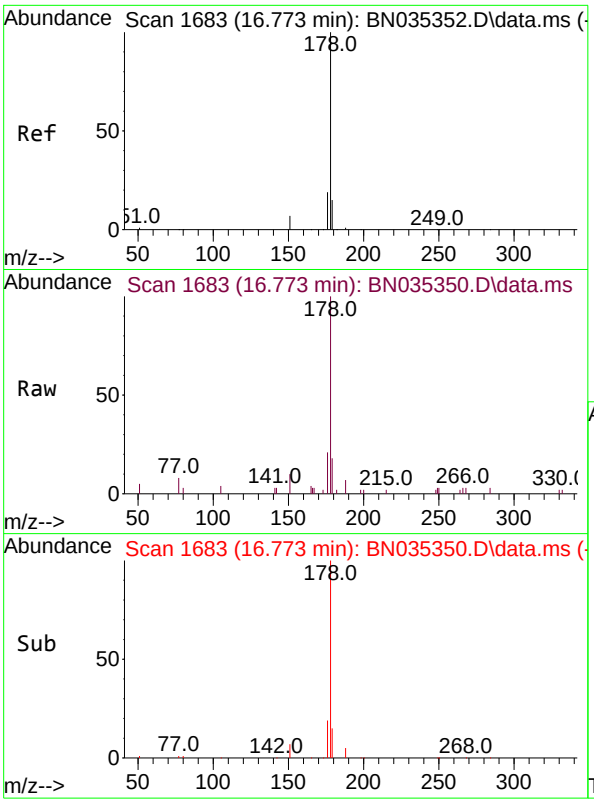


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9

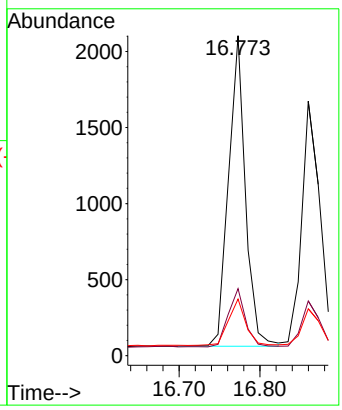




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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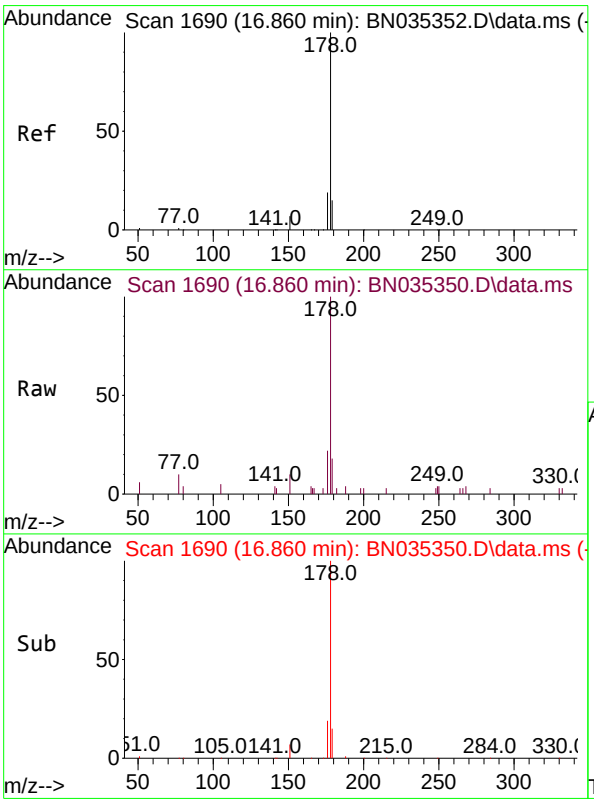
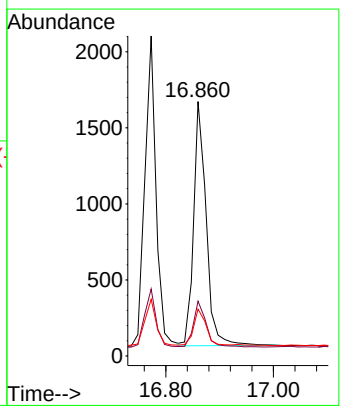
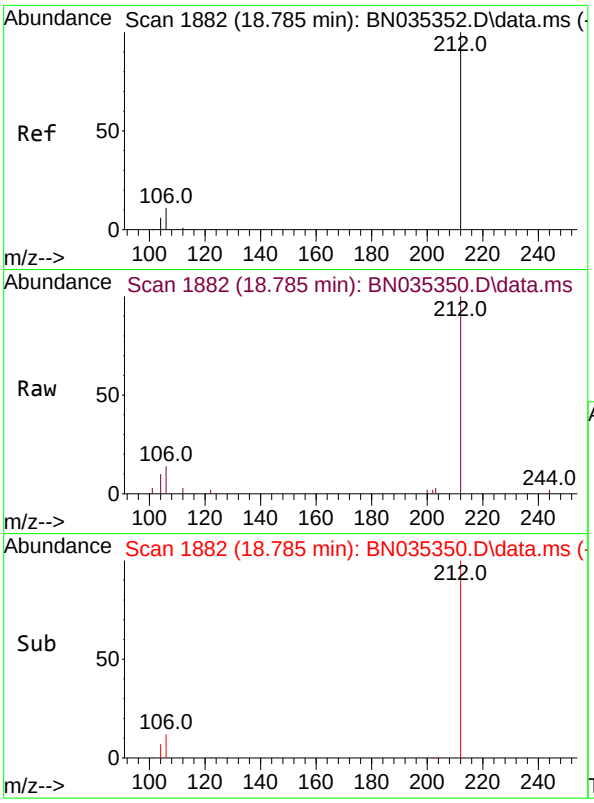


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8

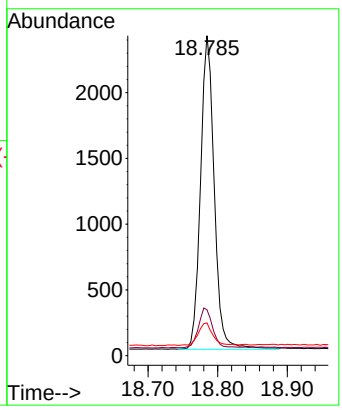




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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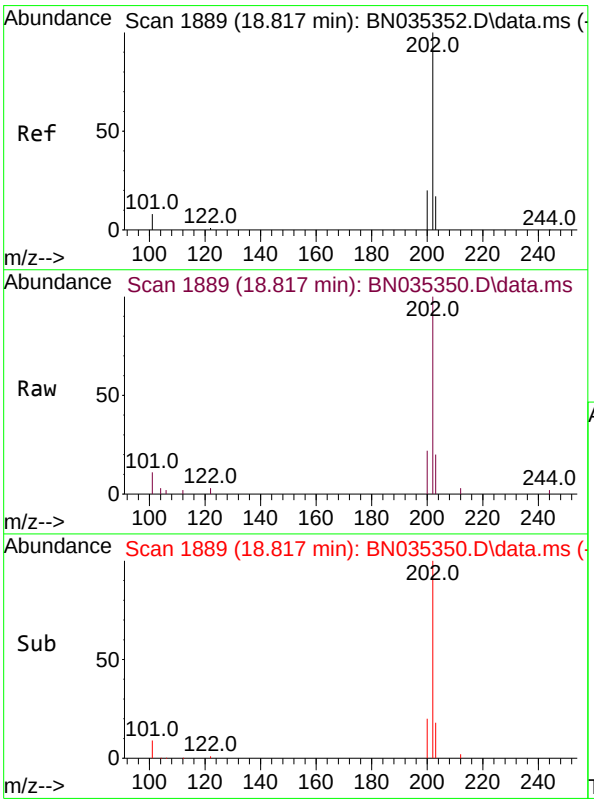
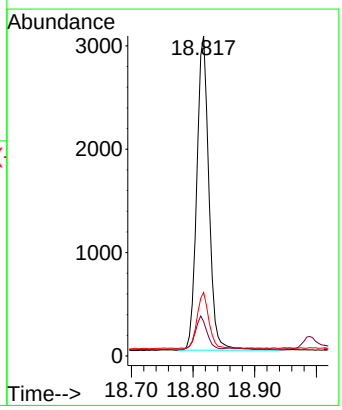
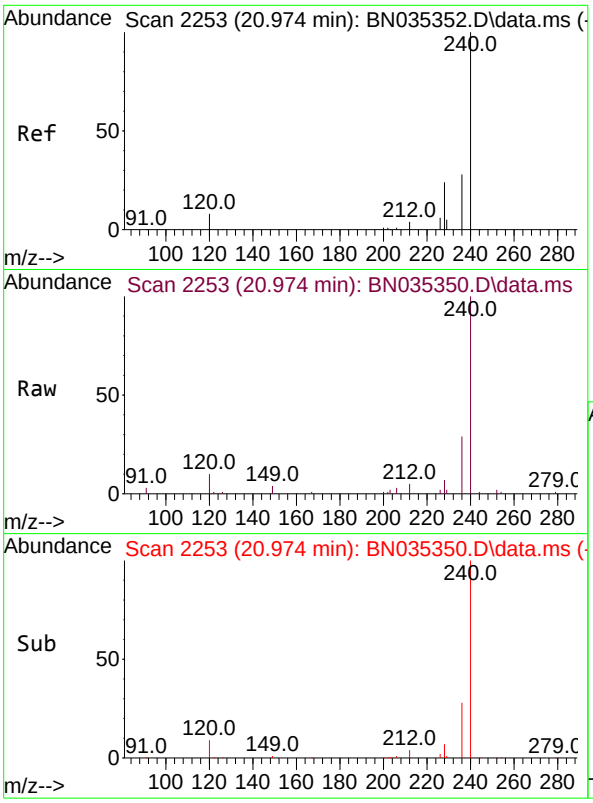


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5

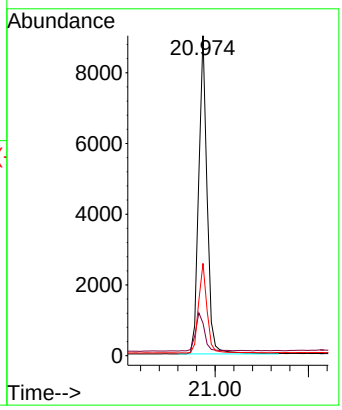




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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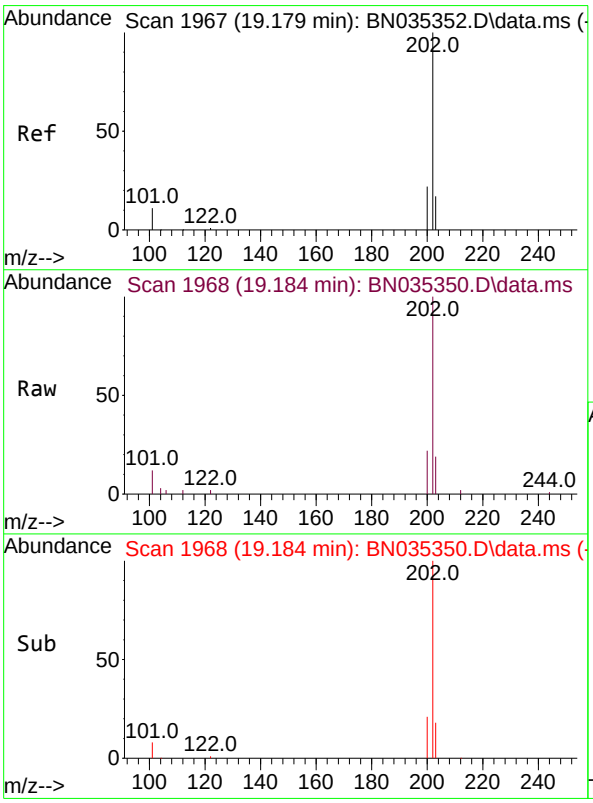
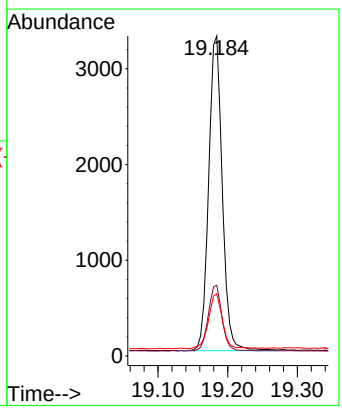
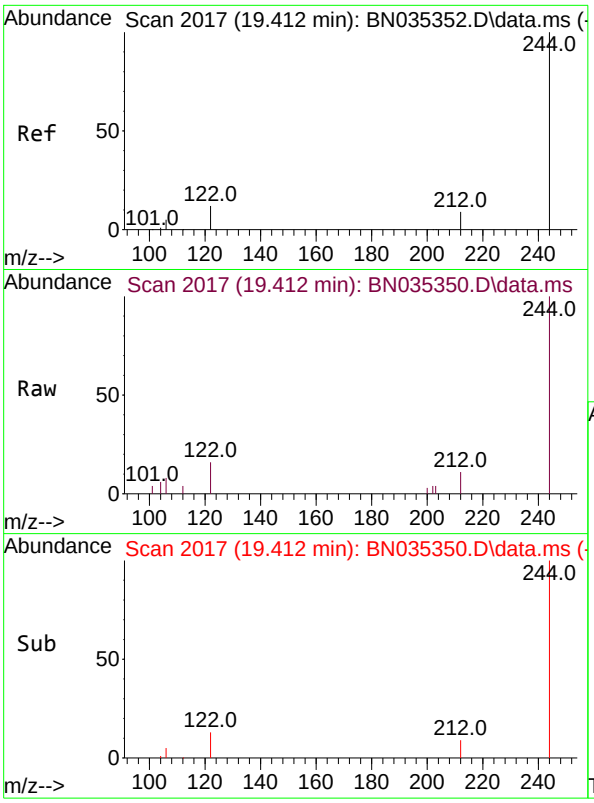


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5

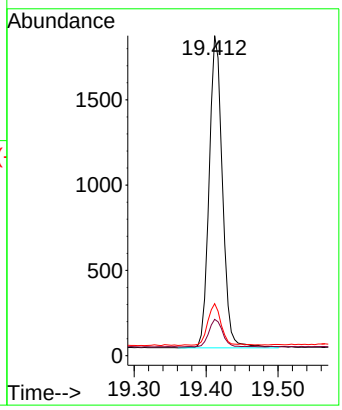




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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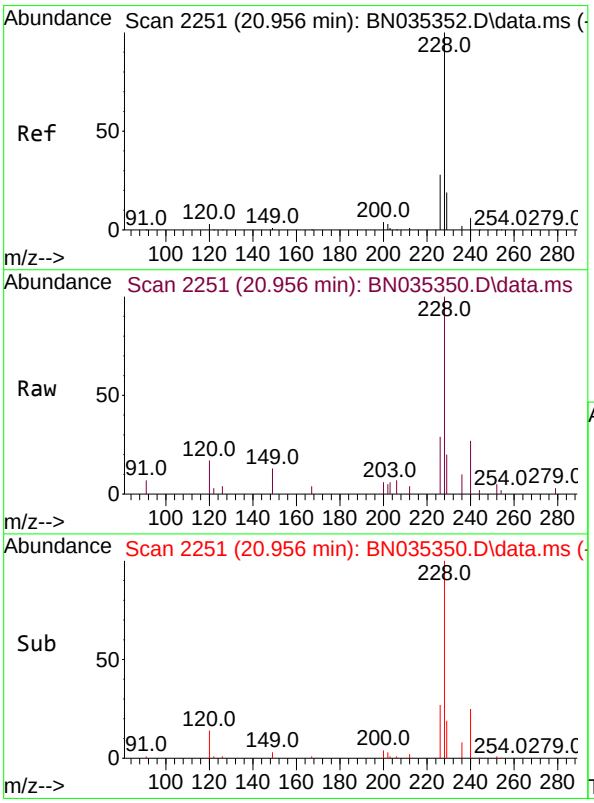
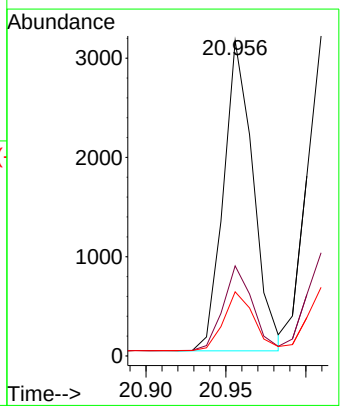
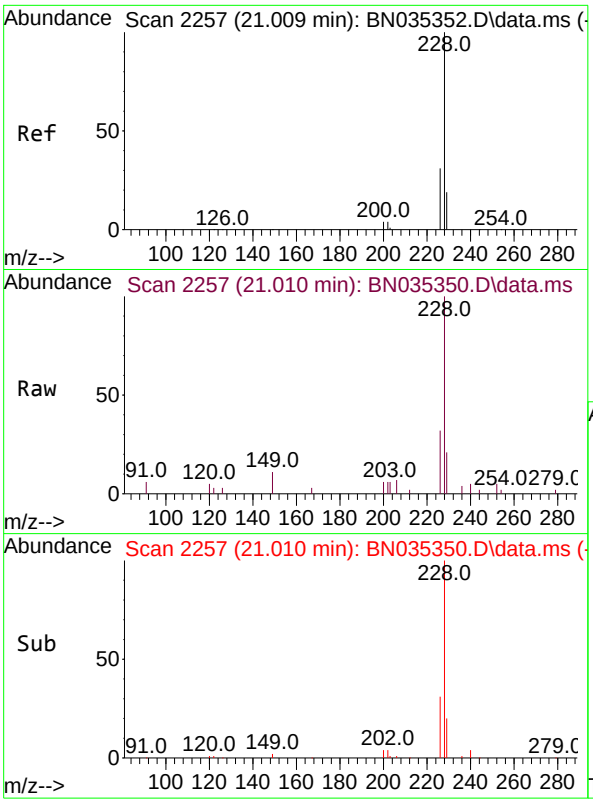


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8

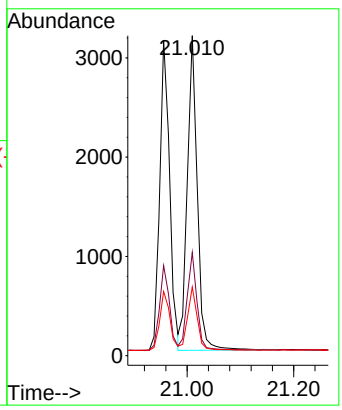




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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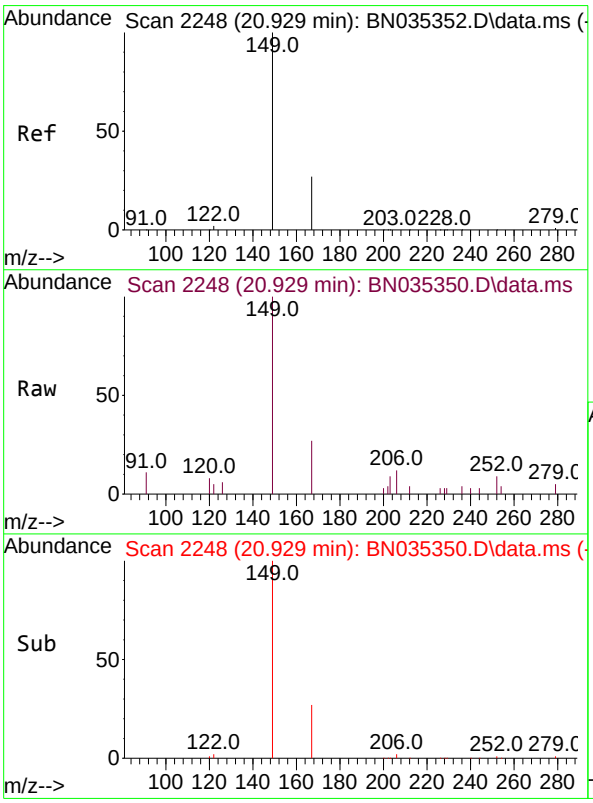
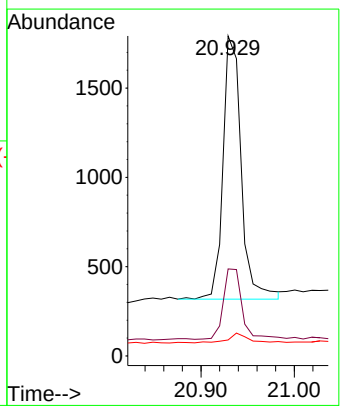
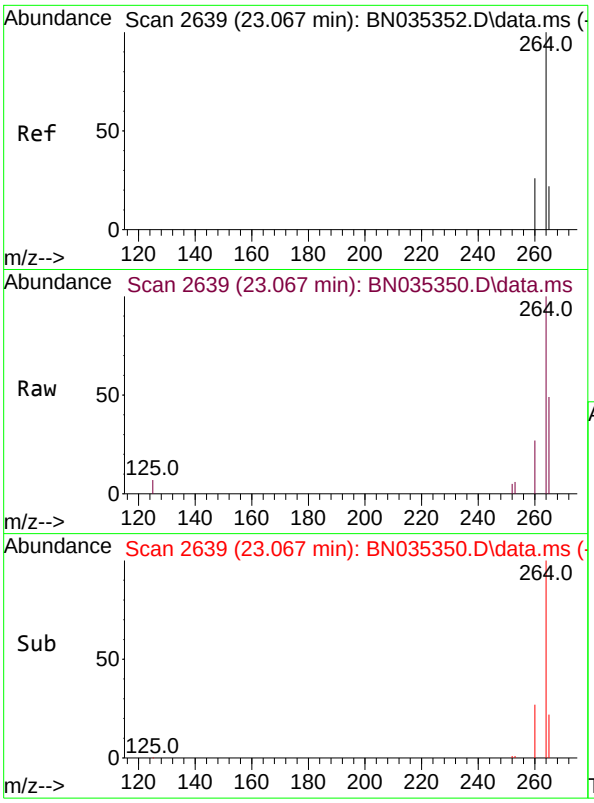


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1

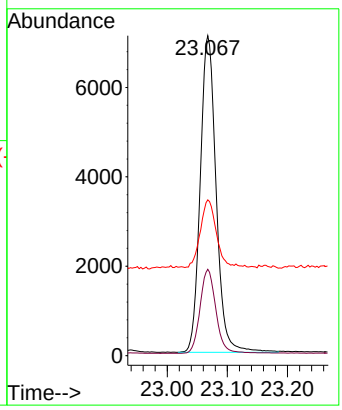




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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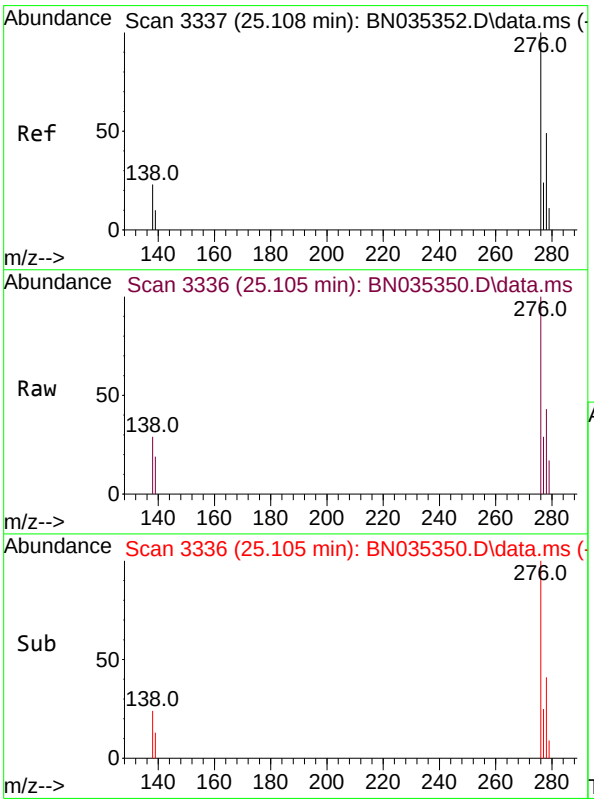
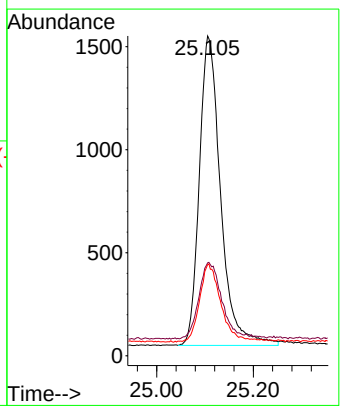
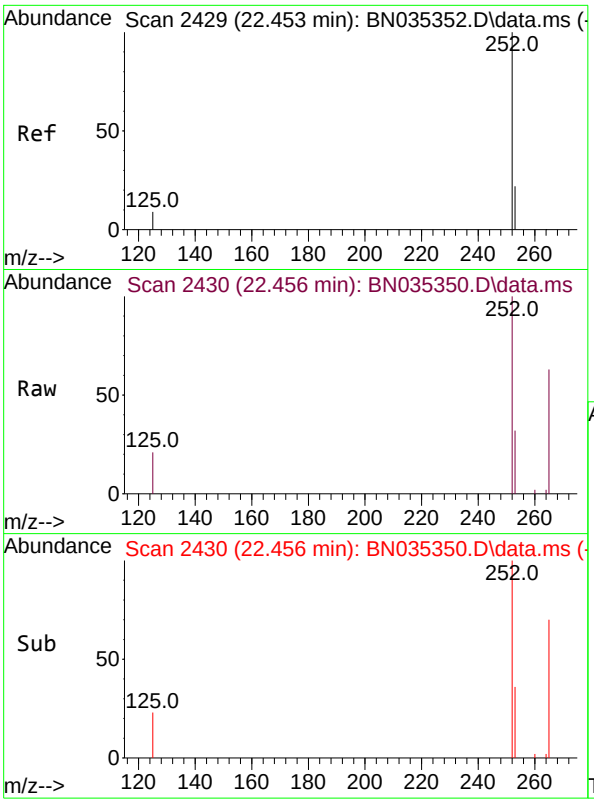


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 424

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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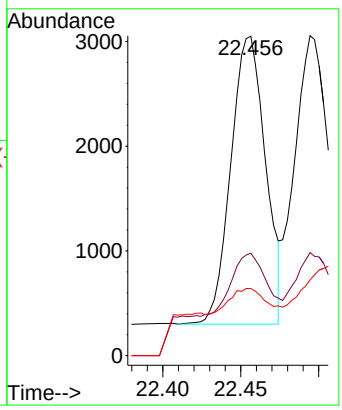
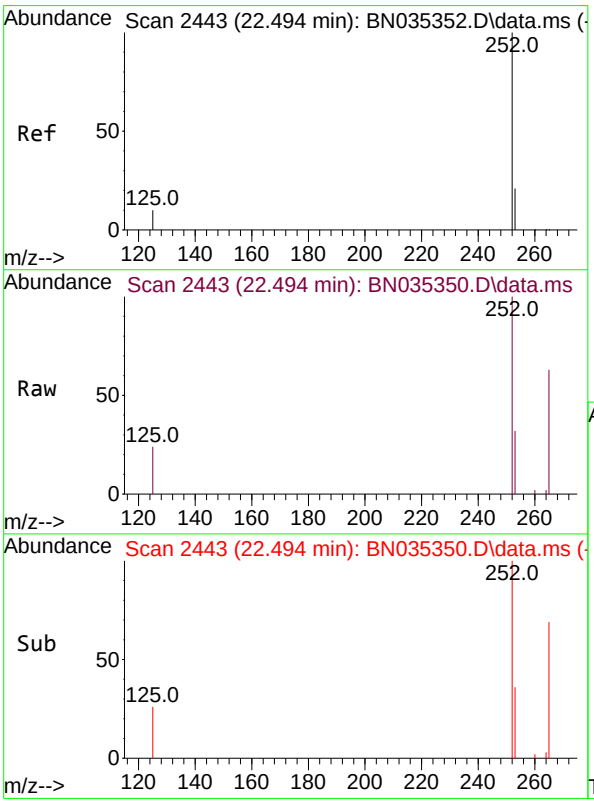
Supervised By :mohammad ahmed 12/03/2024

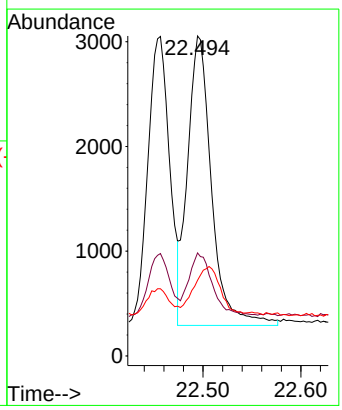


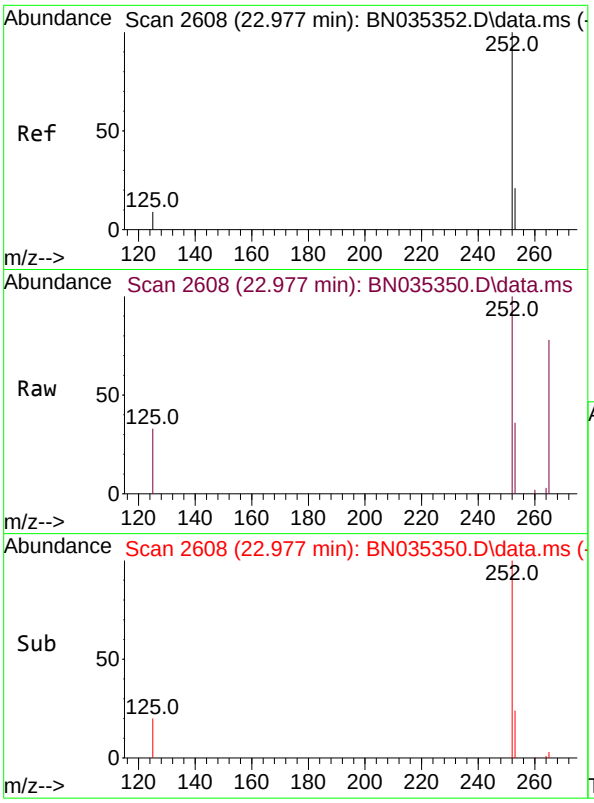


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4695

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#

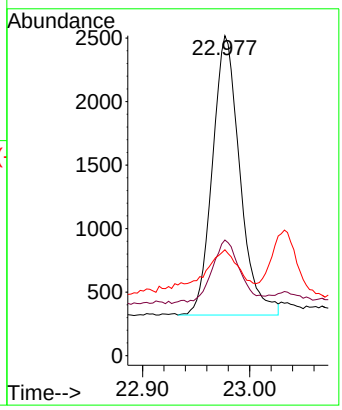




#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 391

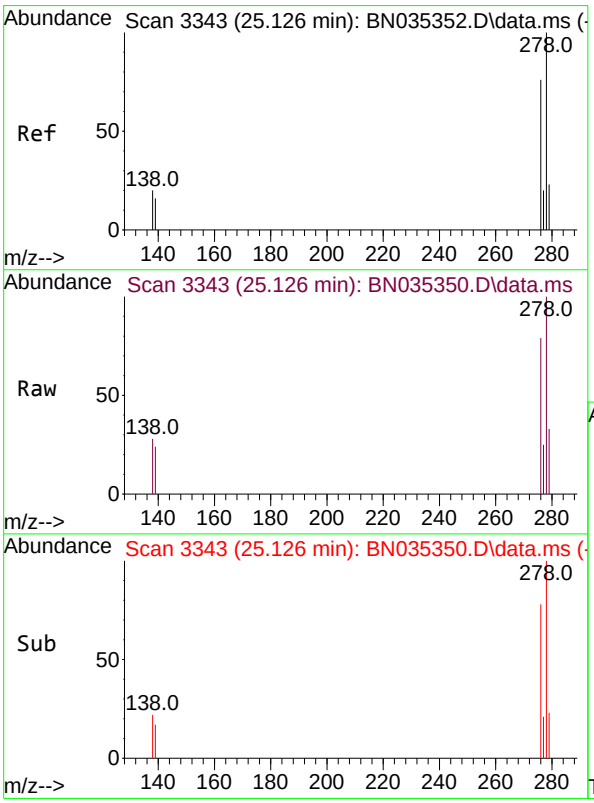
Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

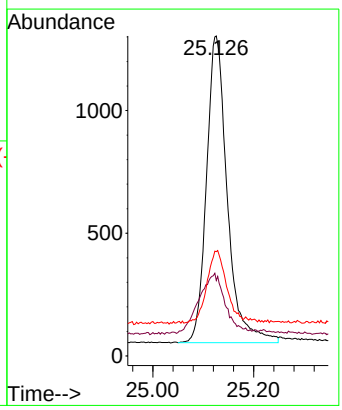
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

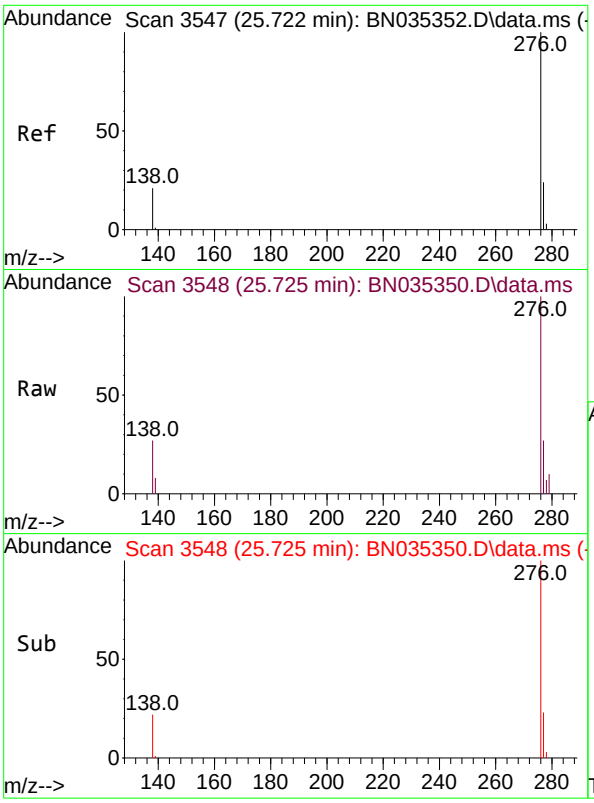


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#

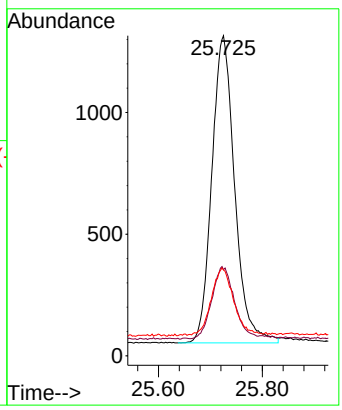




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	618m	0.133	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.497	252	7675m	0.204	ng	
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

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

ICAL Form

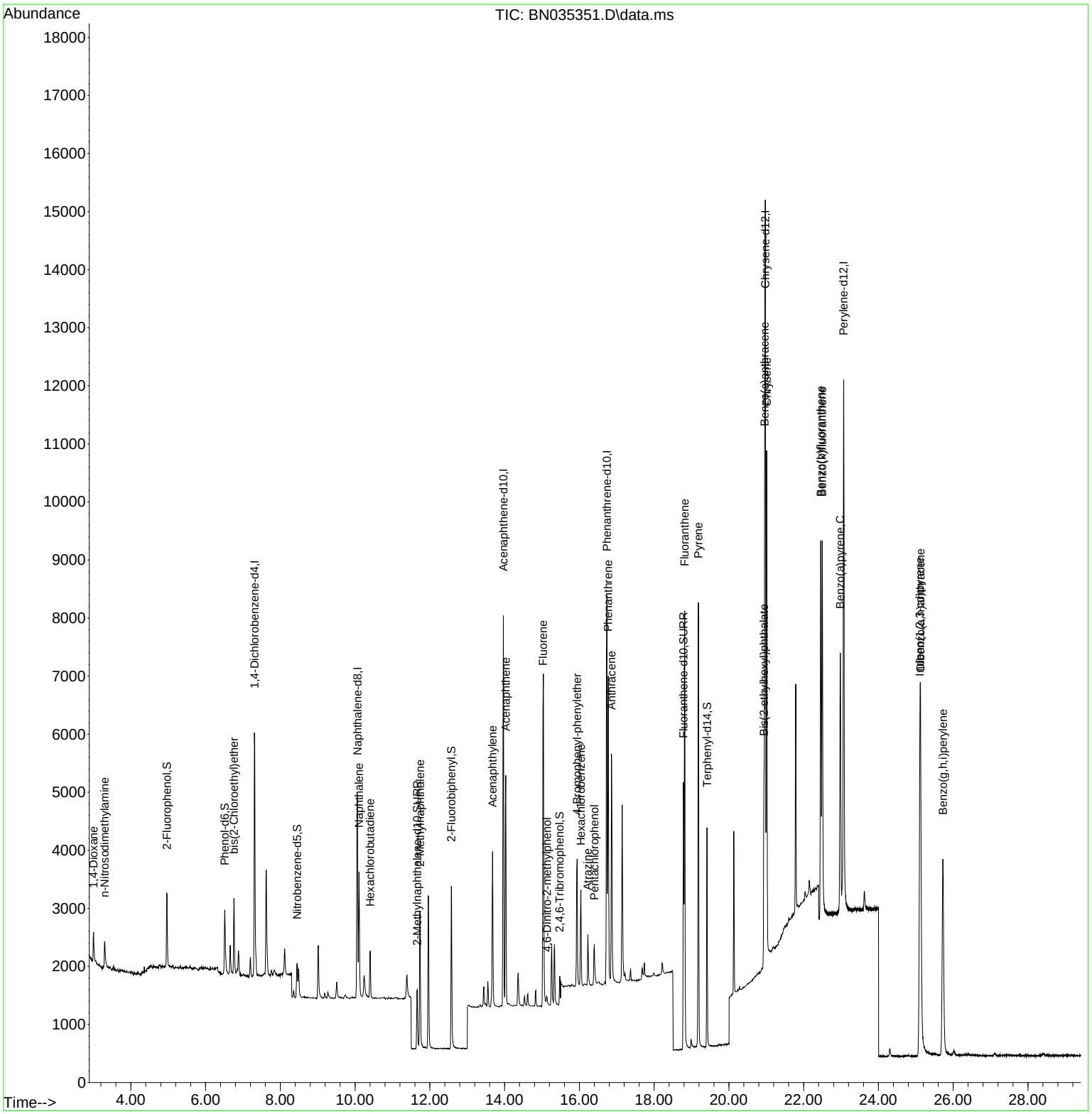
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

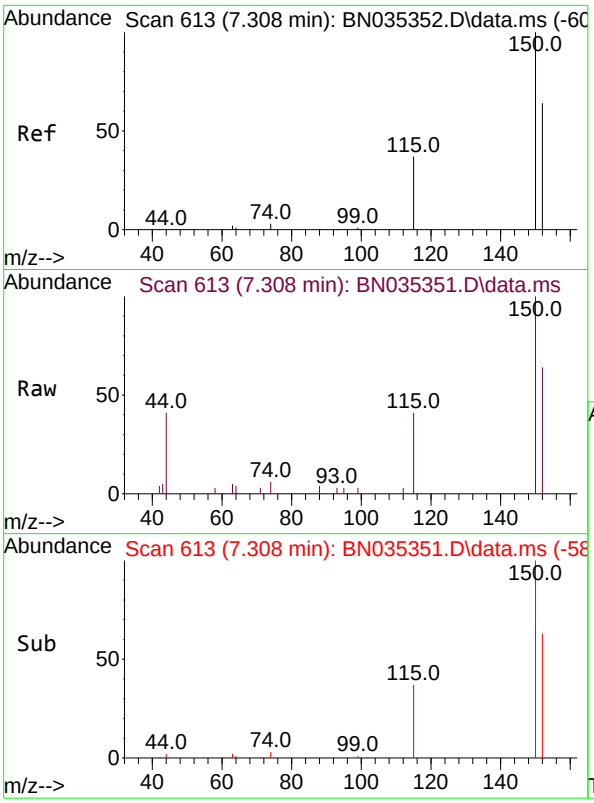
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

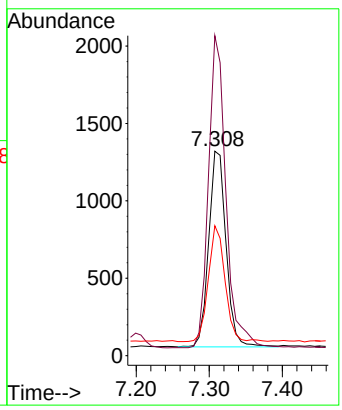




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

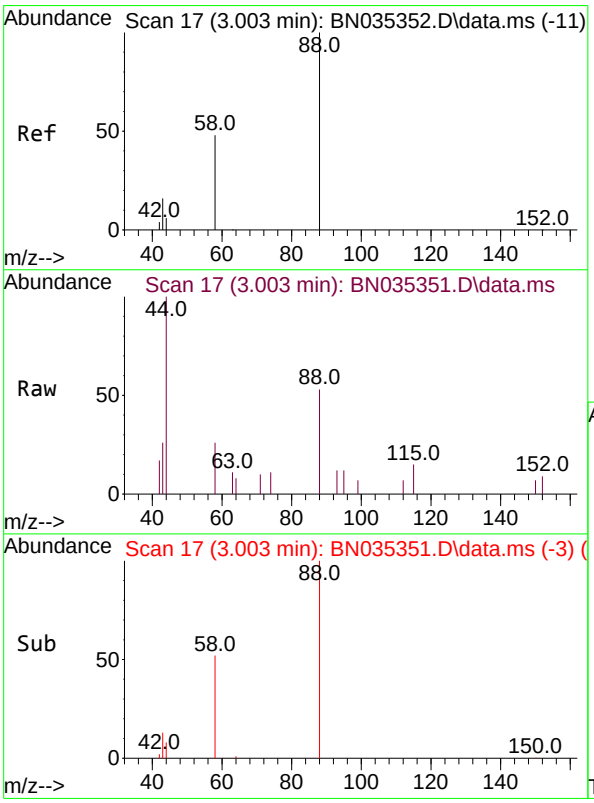
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

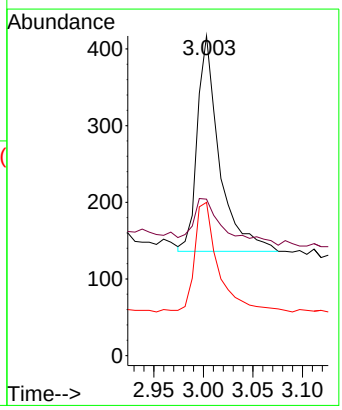
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

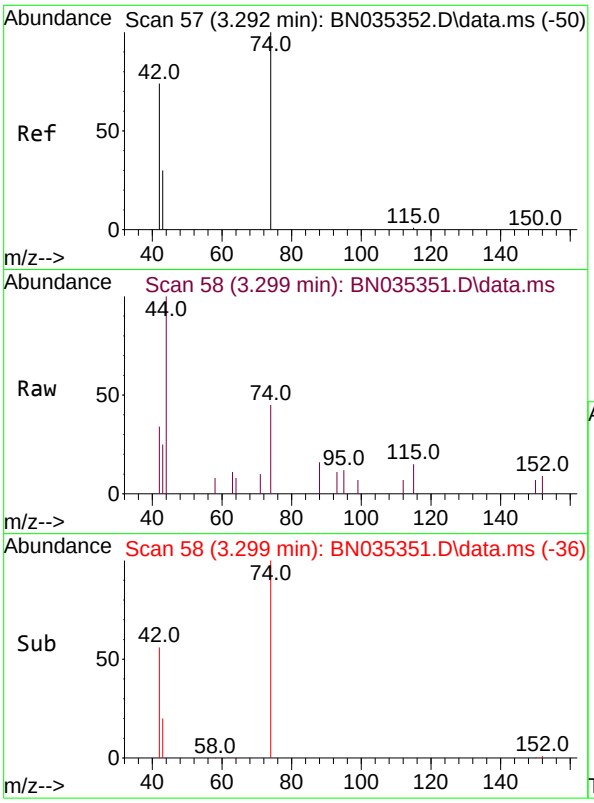


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7

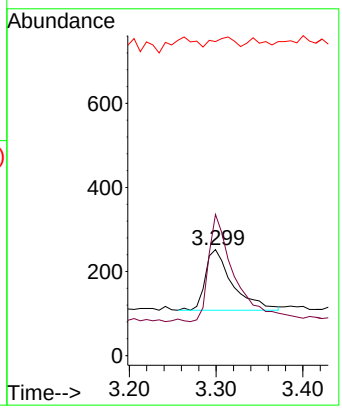




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

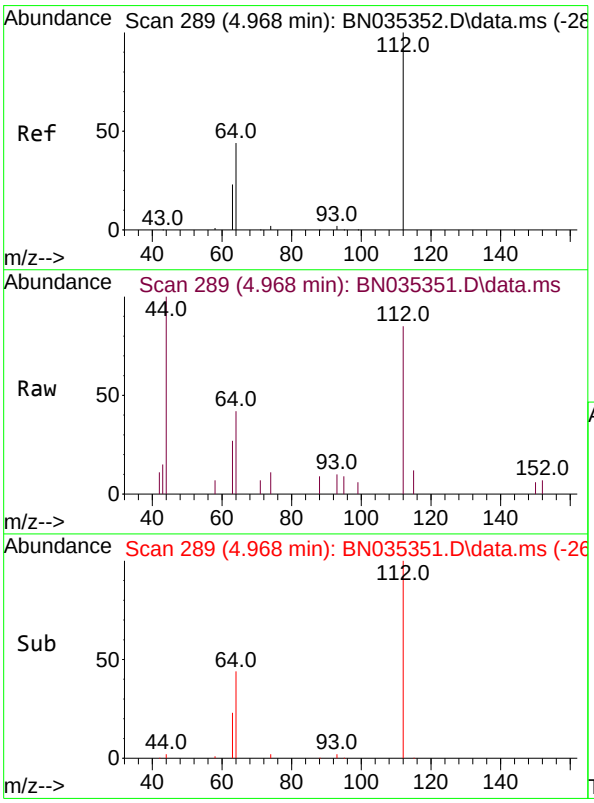
Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

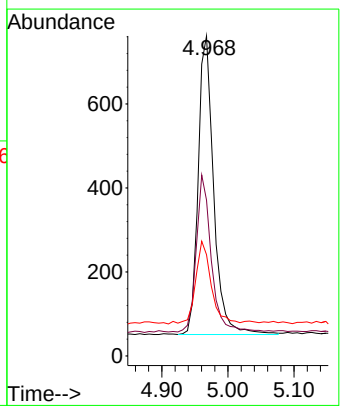
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

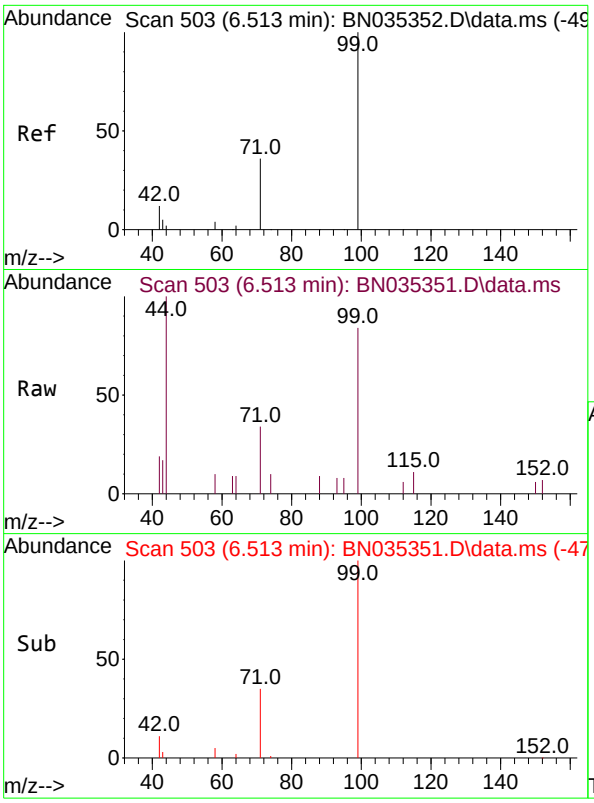


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6

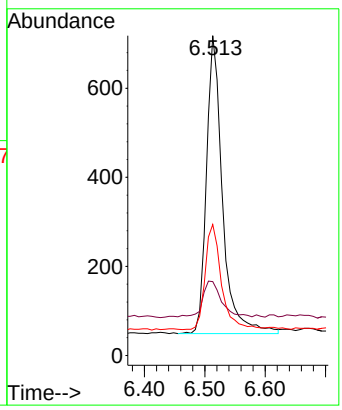




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
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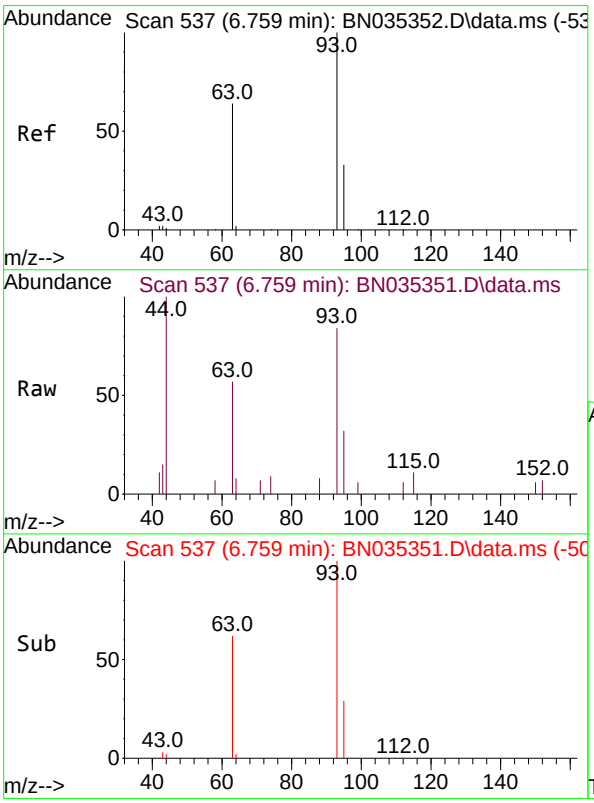
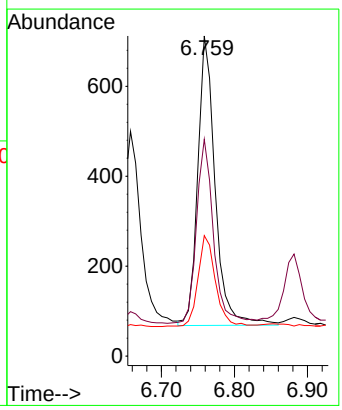
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

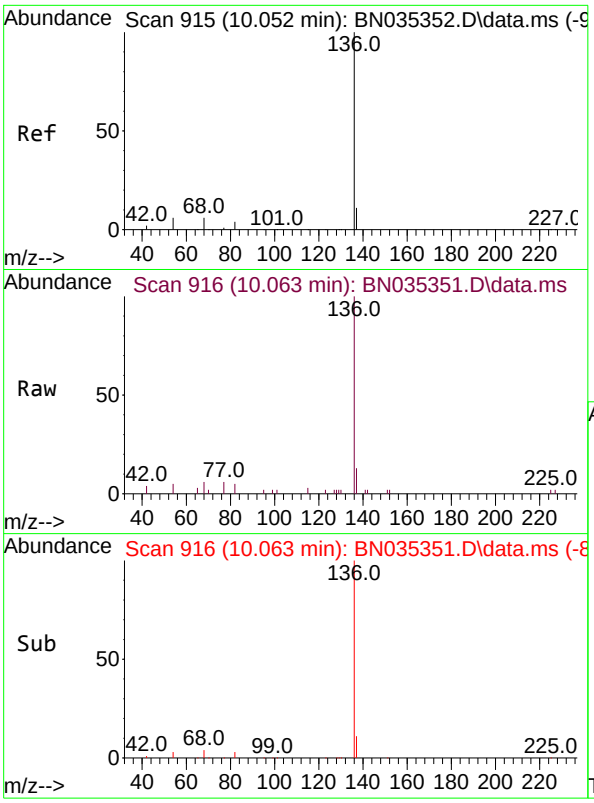


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5

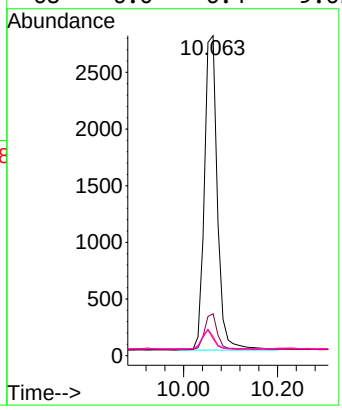




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

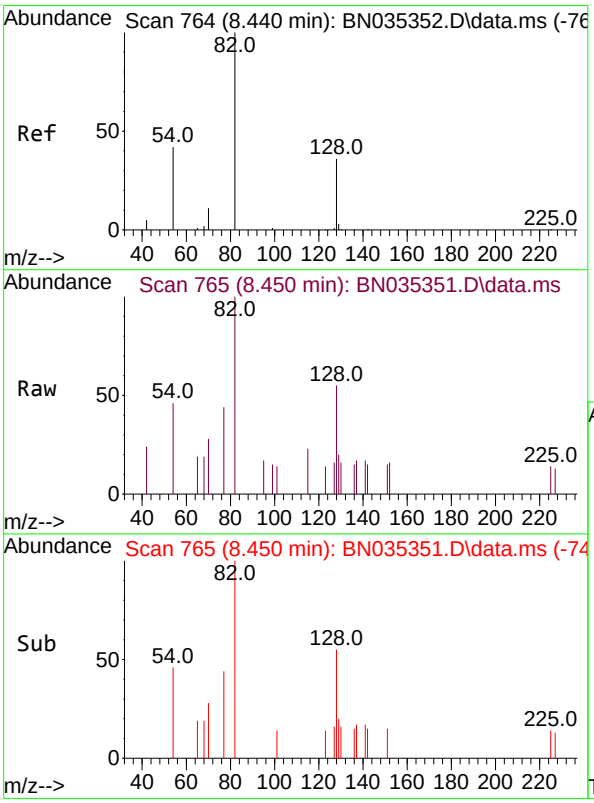
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

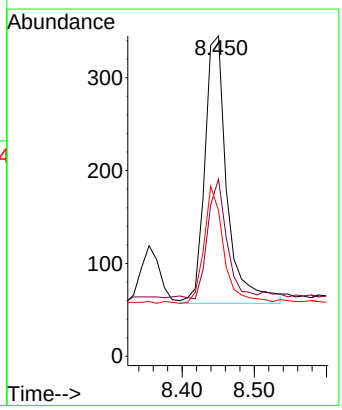
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

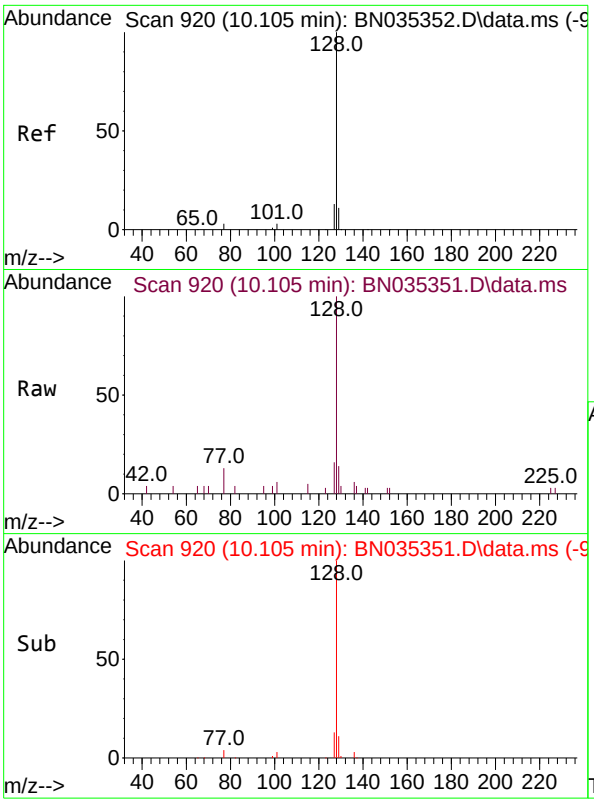


#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1

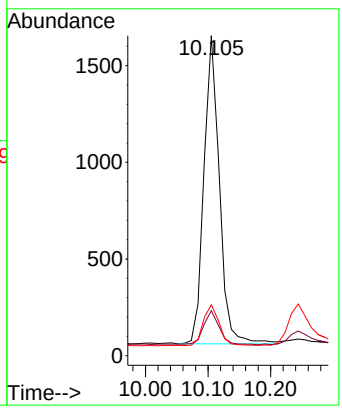




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

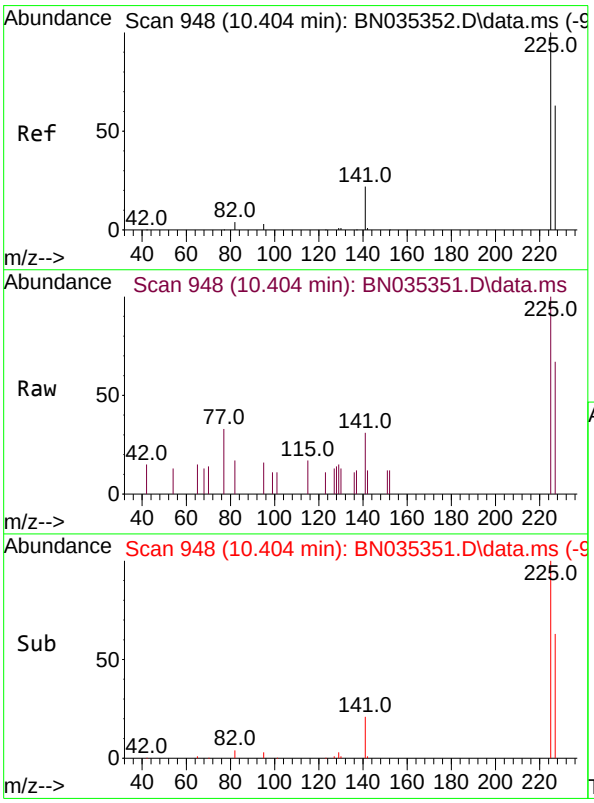
Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

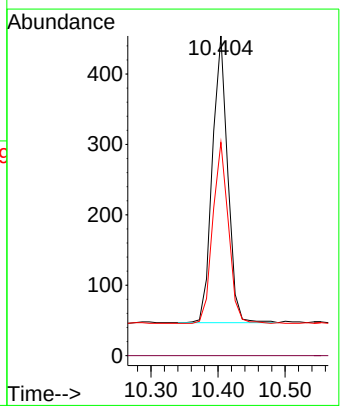
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

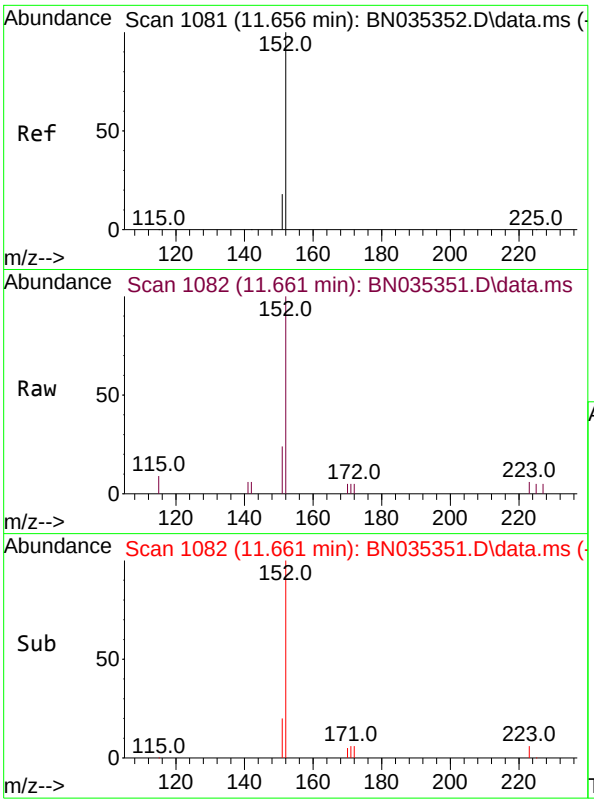


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9

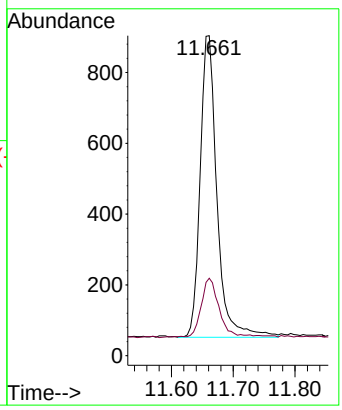




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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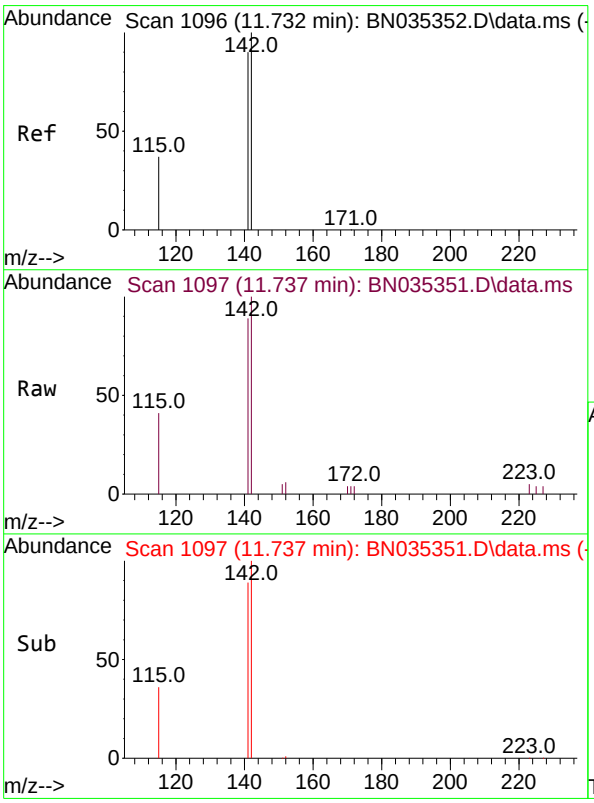
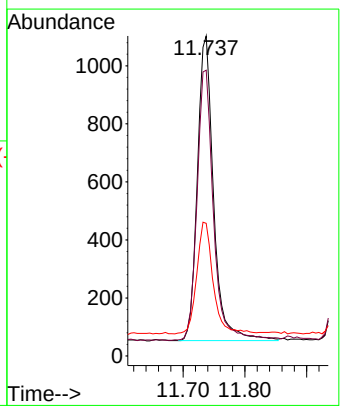
Supervised By :mohammad ahmed 12/03/2024

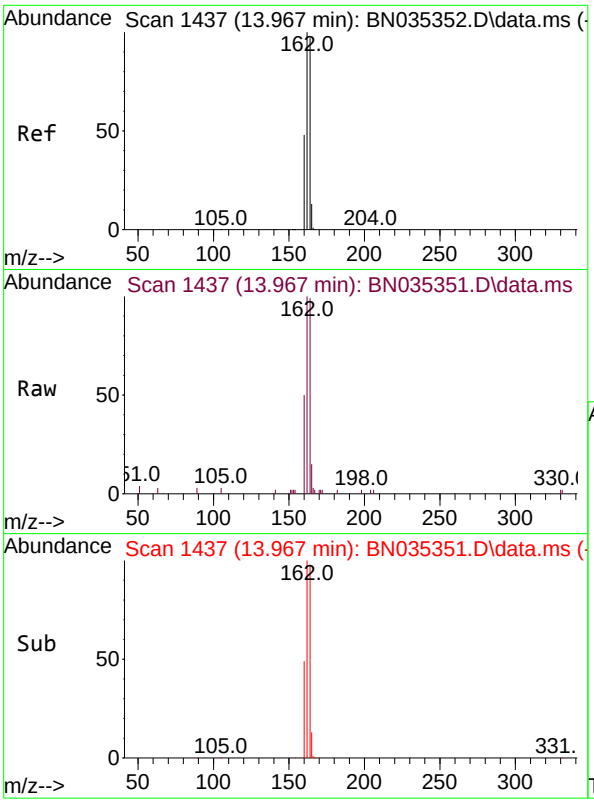


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0

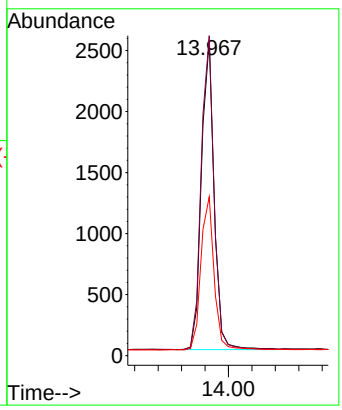




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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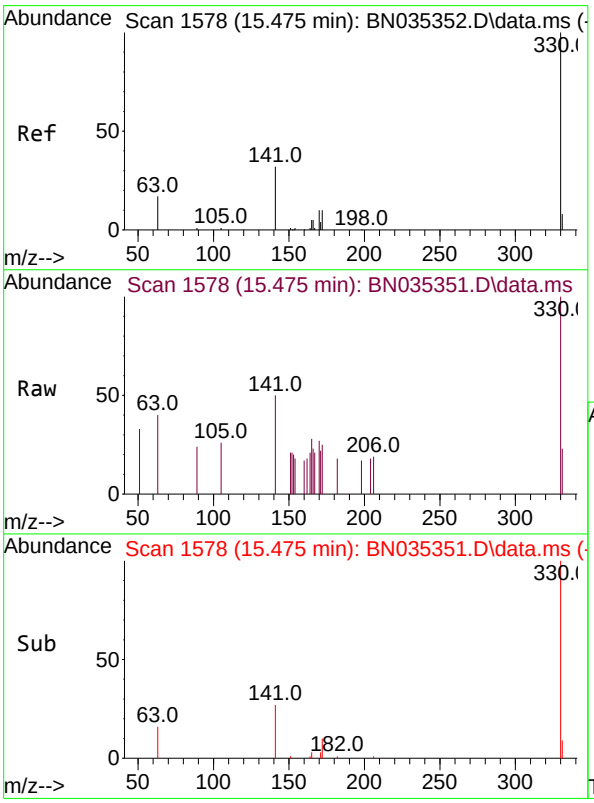
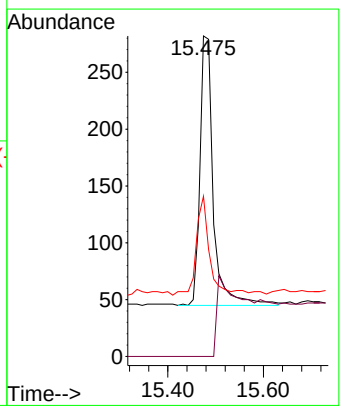
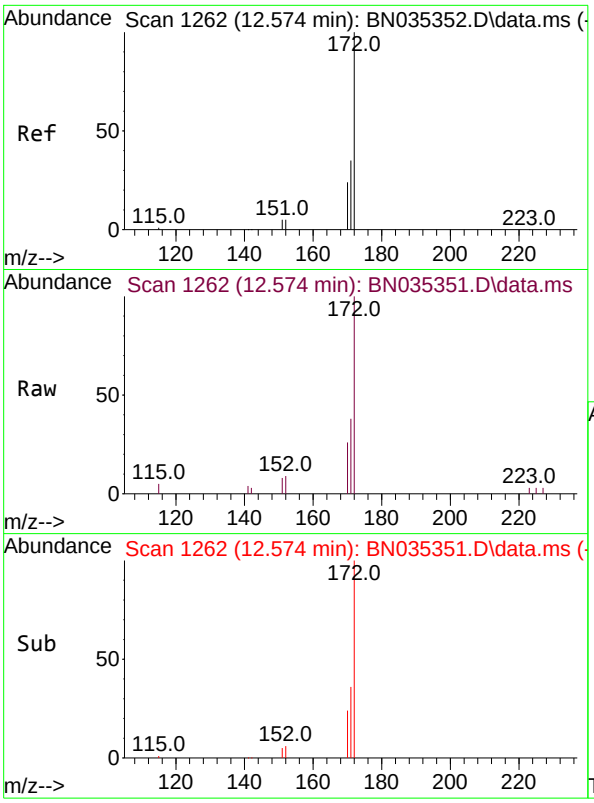


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0

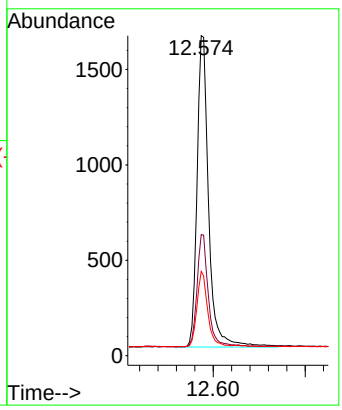




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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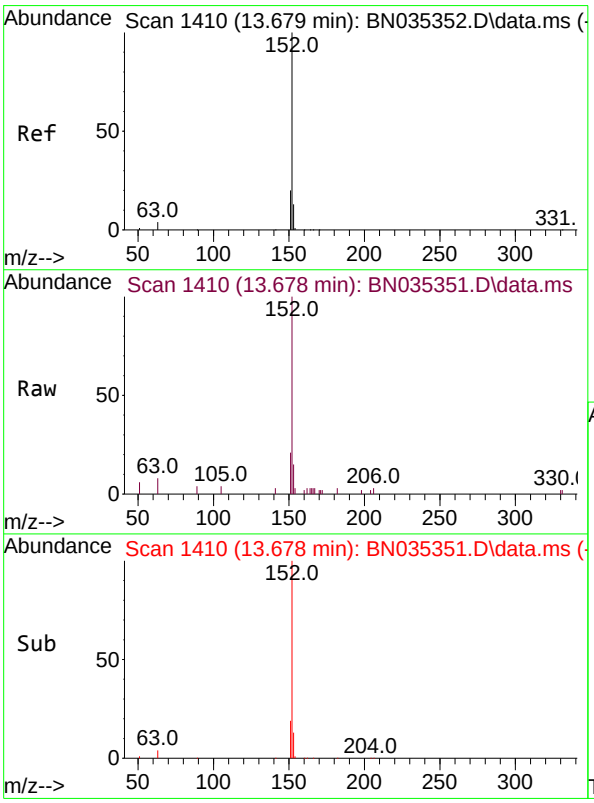
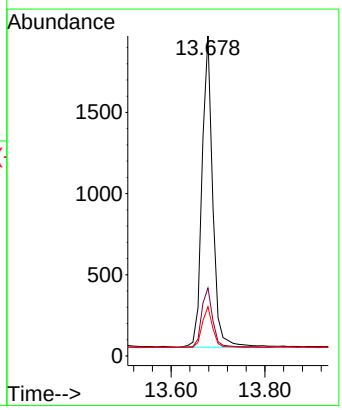
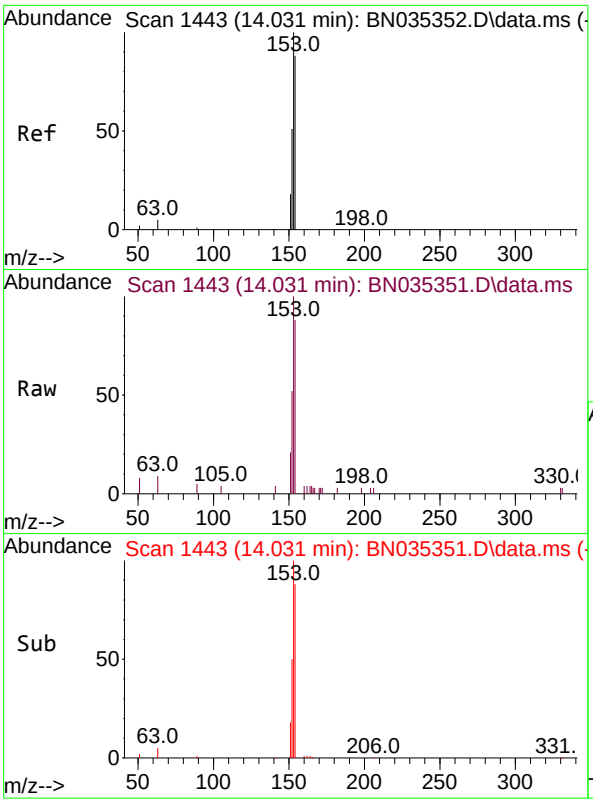


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6

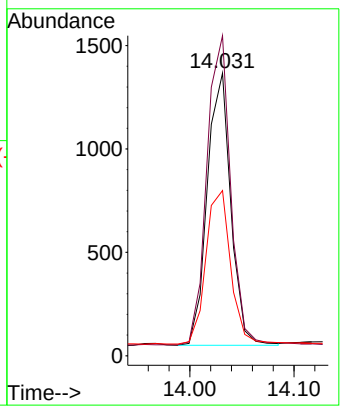




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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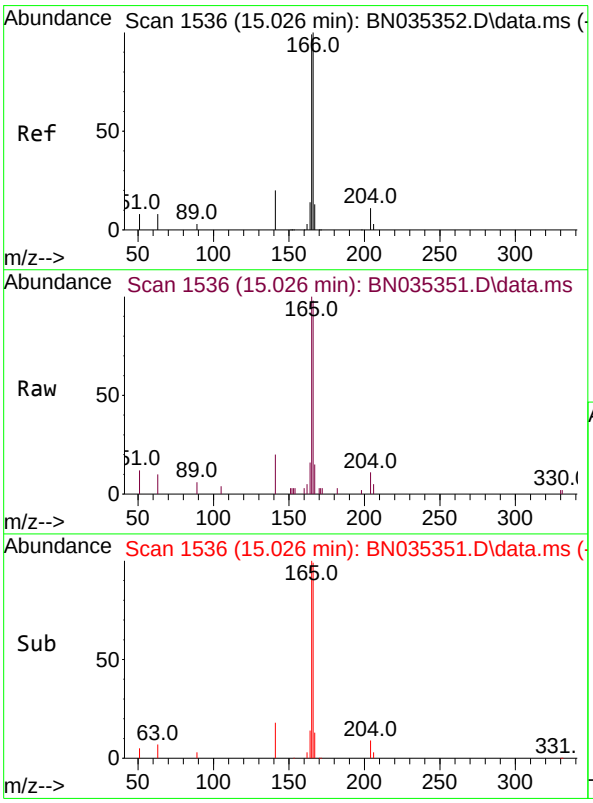
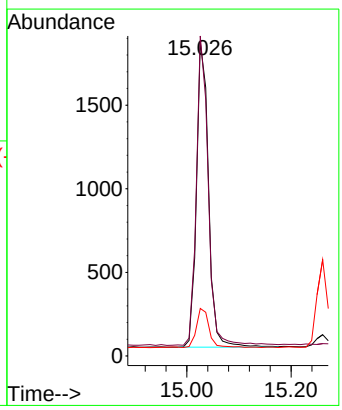
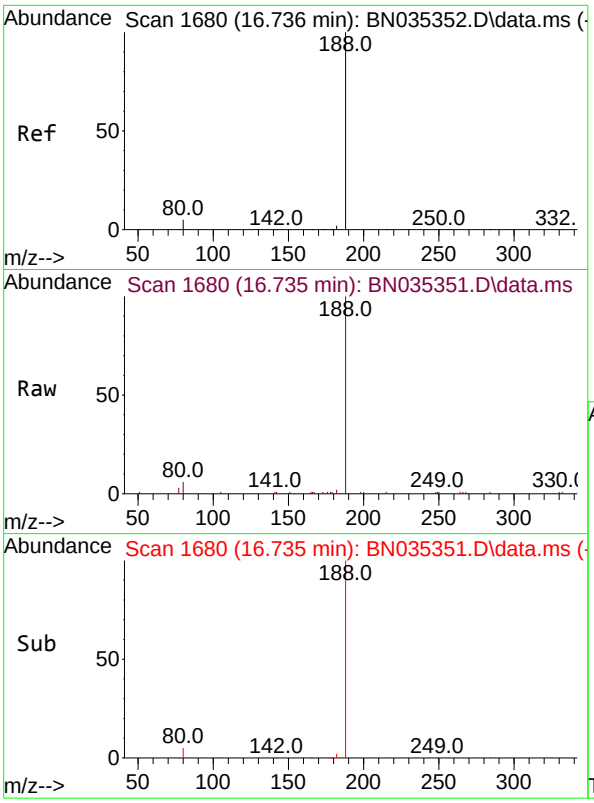


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2

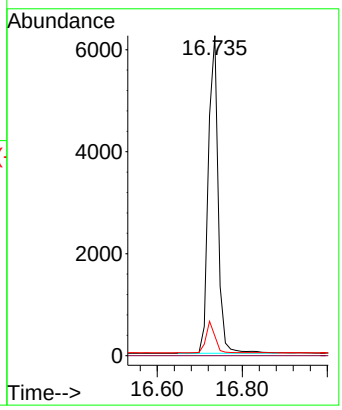




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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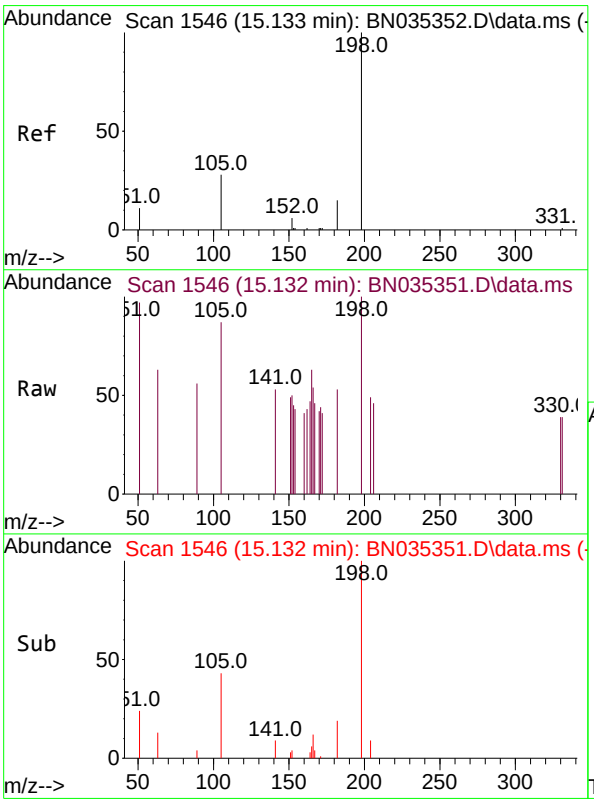
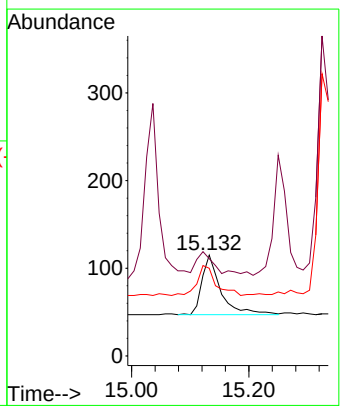
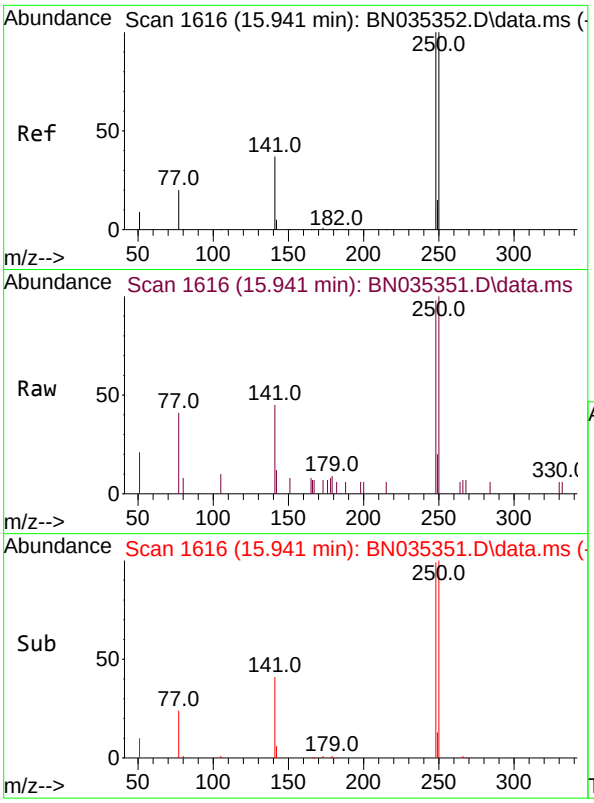


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#

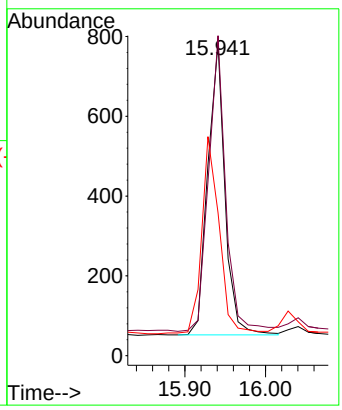




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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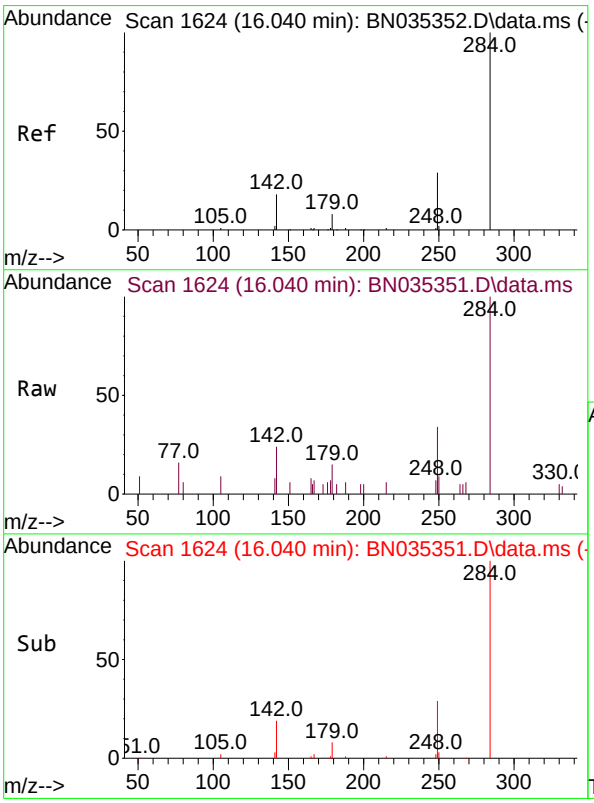
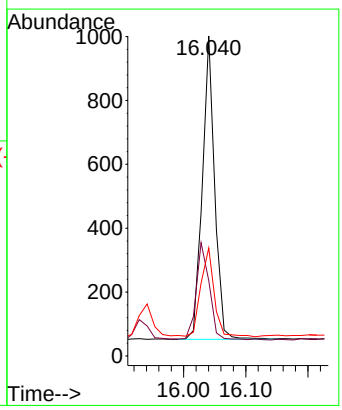
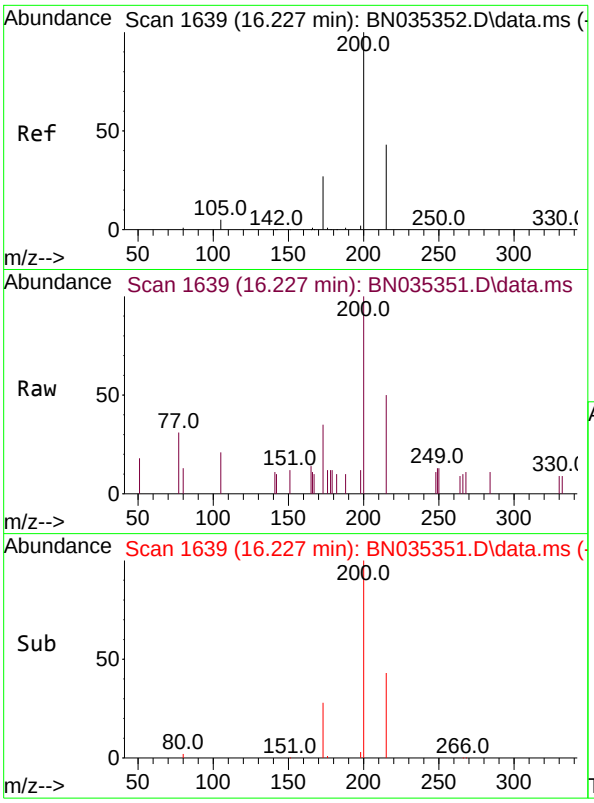


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8

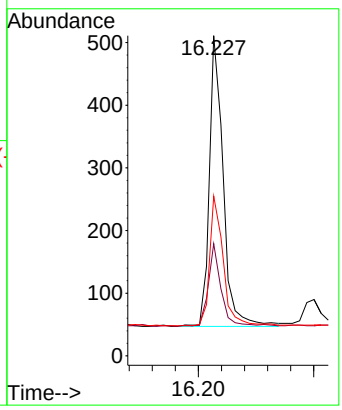




#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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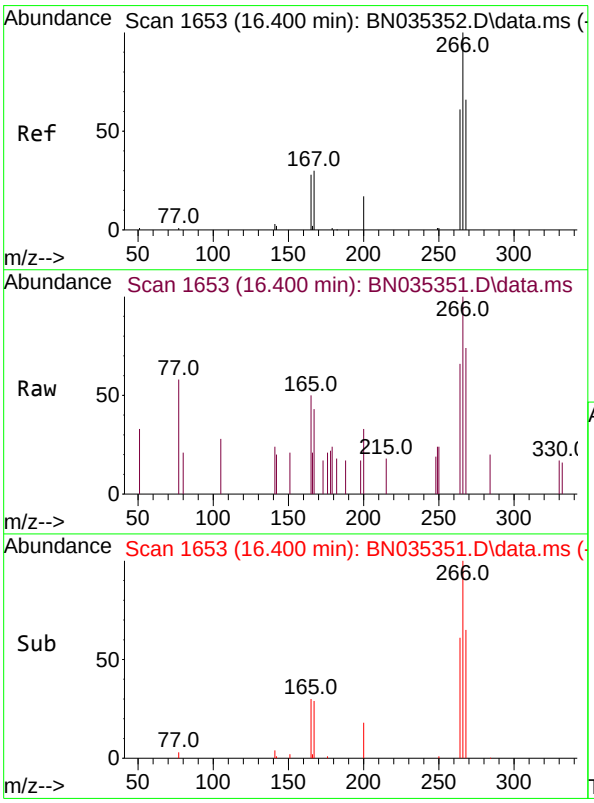
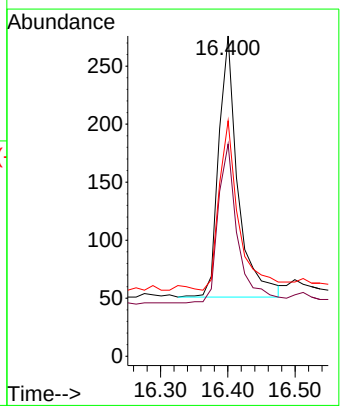
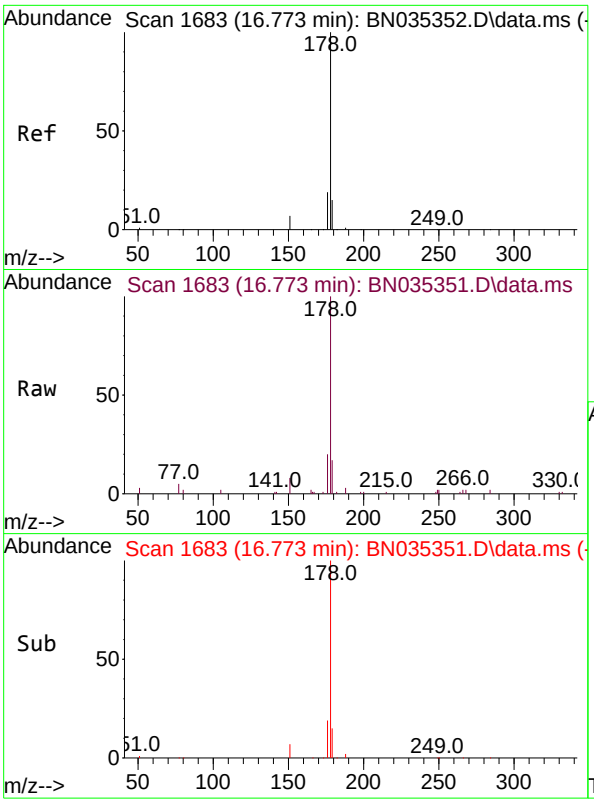


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#

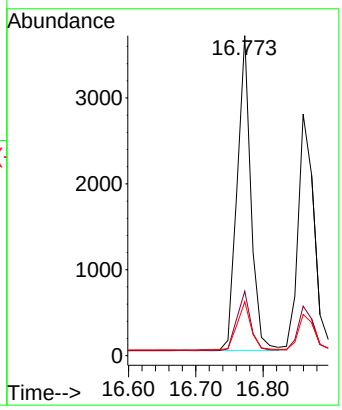




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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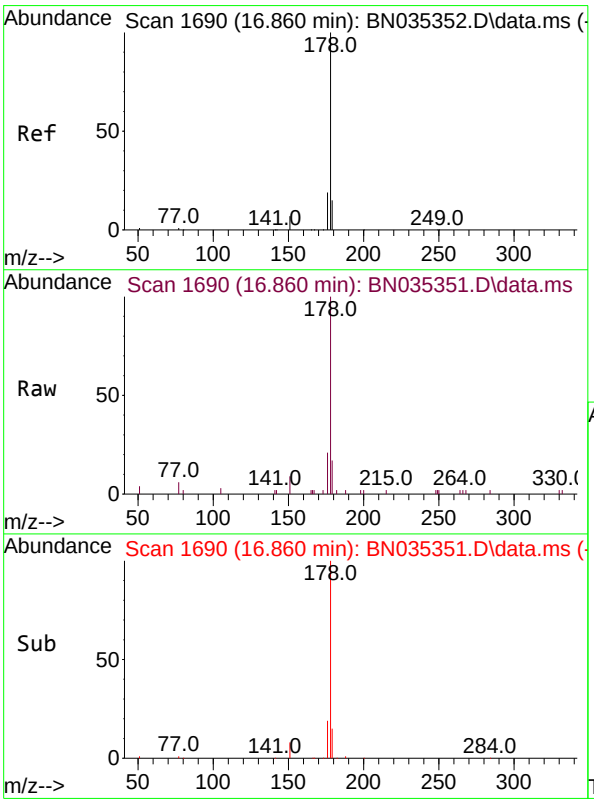
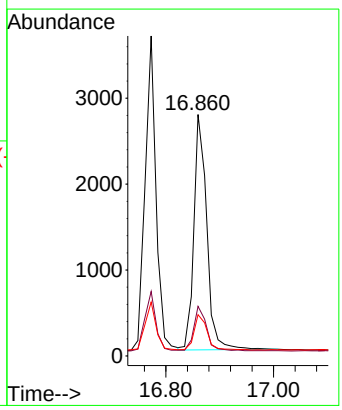
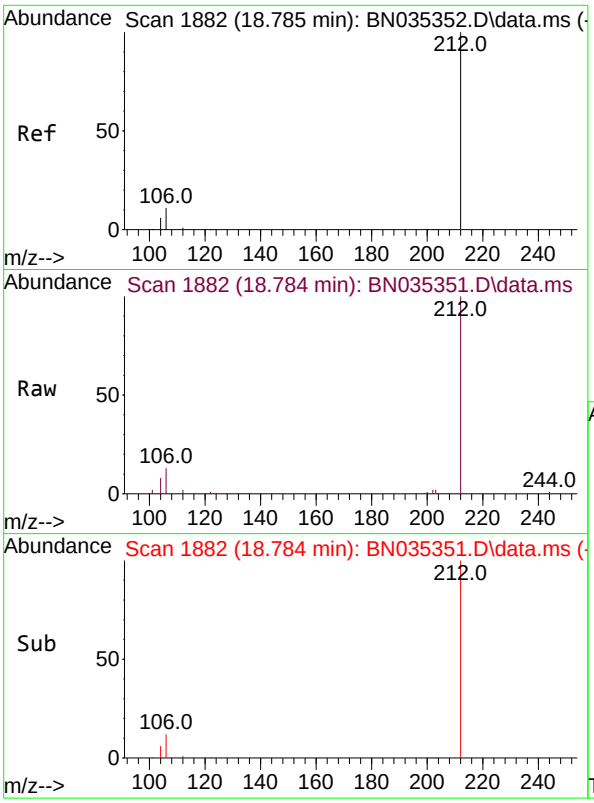


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8

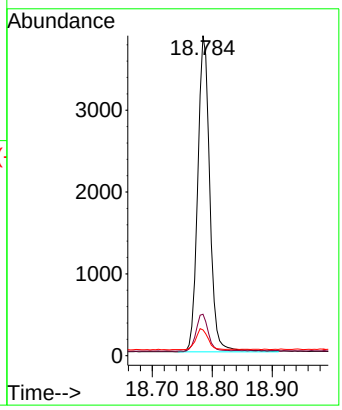




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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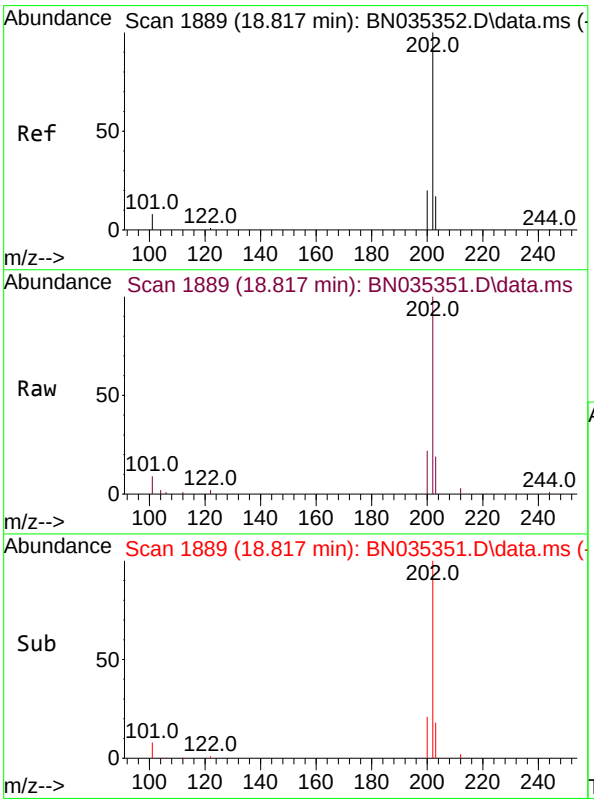
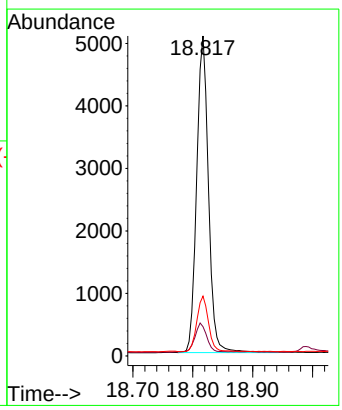
Supervised By :mohammad ahmed 12/03/2024

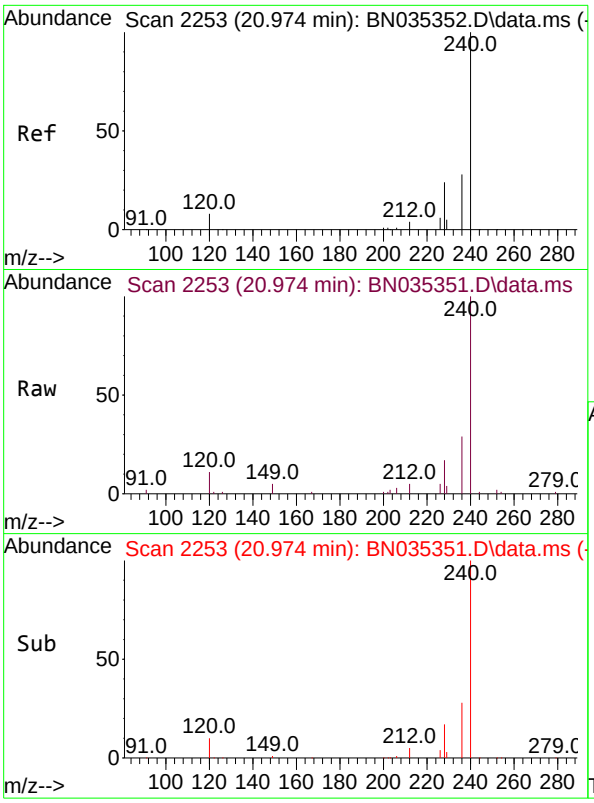


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5

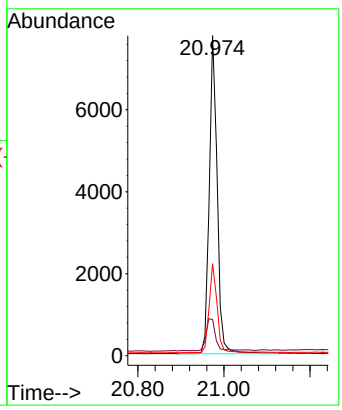




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

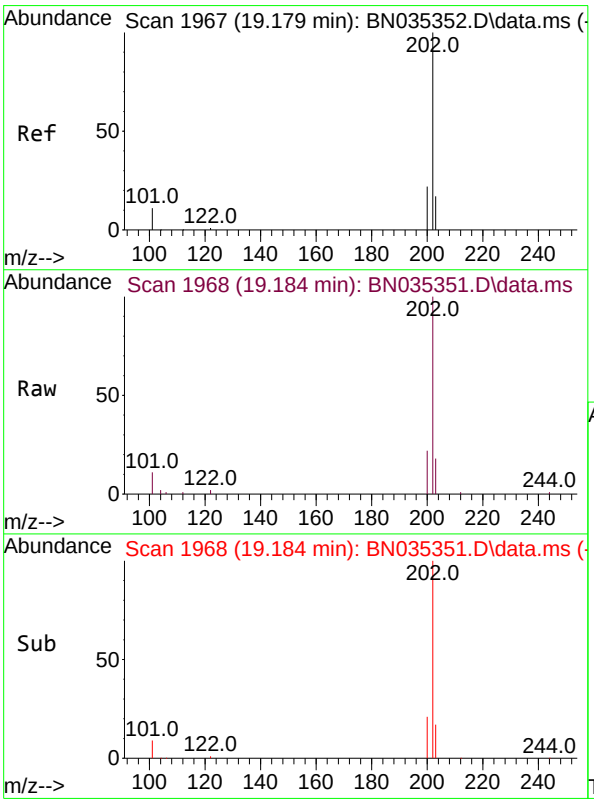
Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

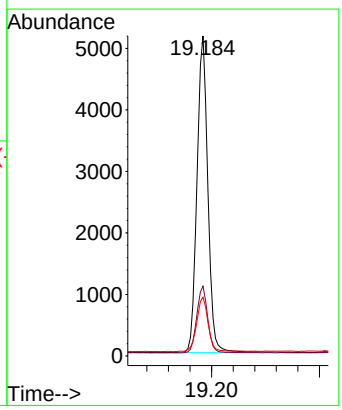
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

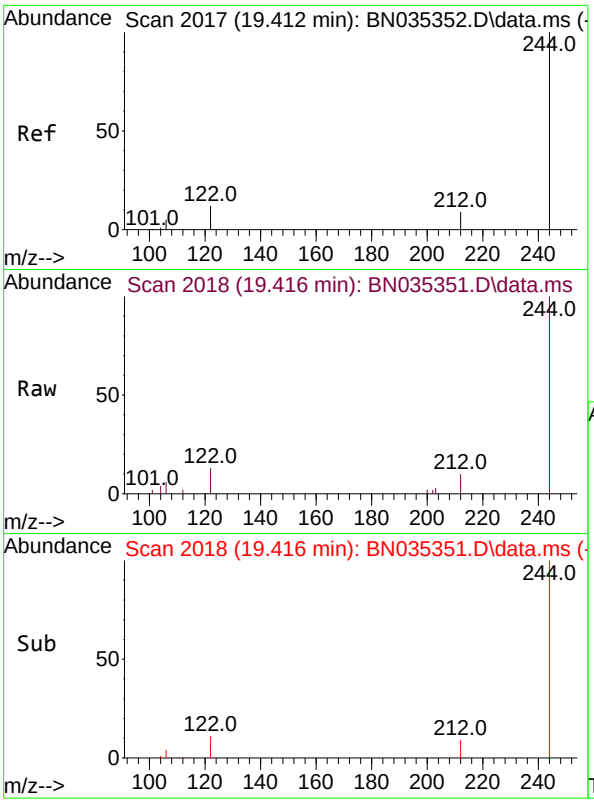


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5

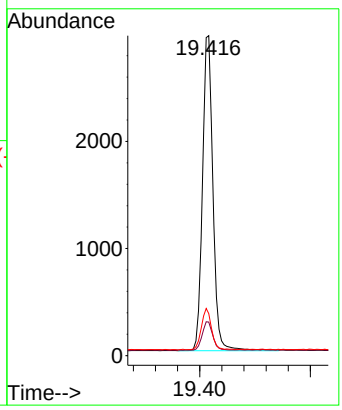




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

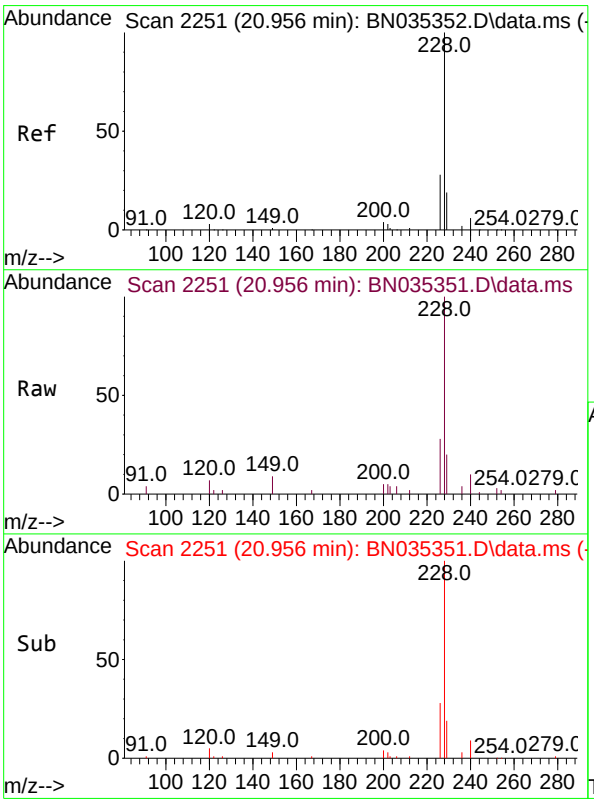
Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

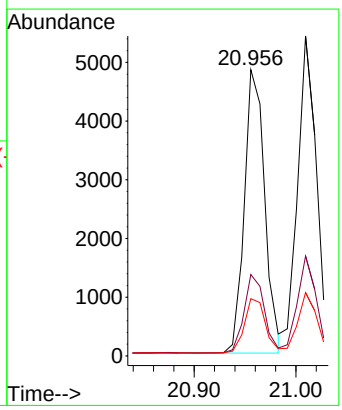
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

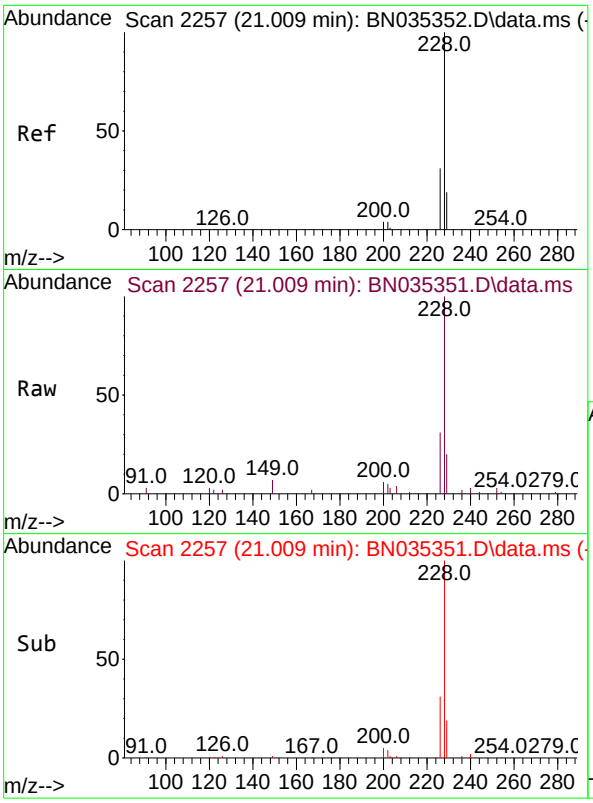


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8

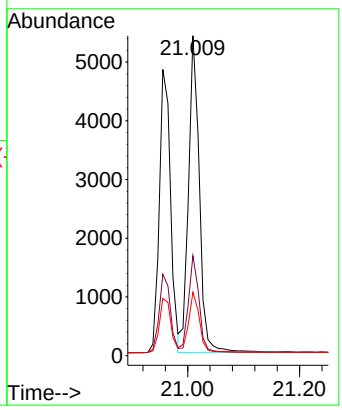




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
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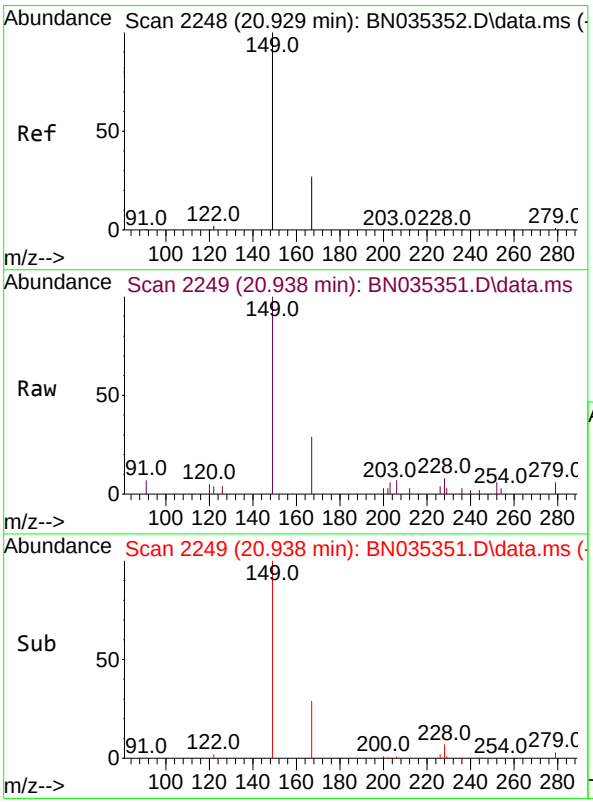
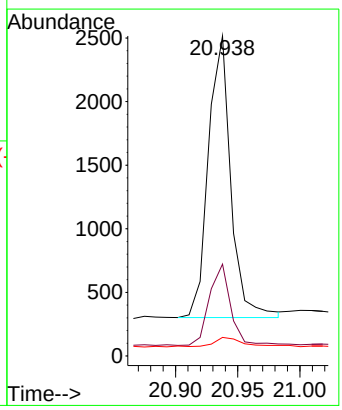
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

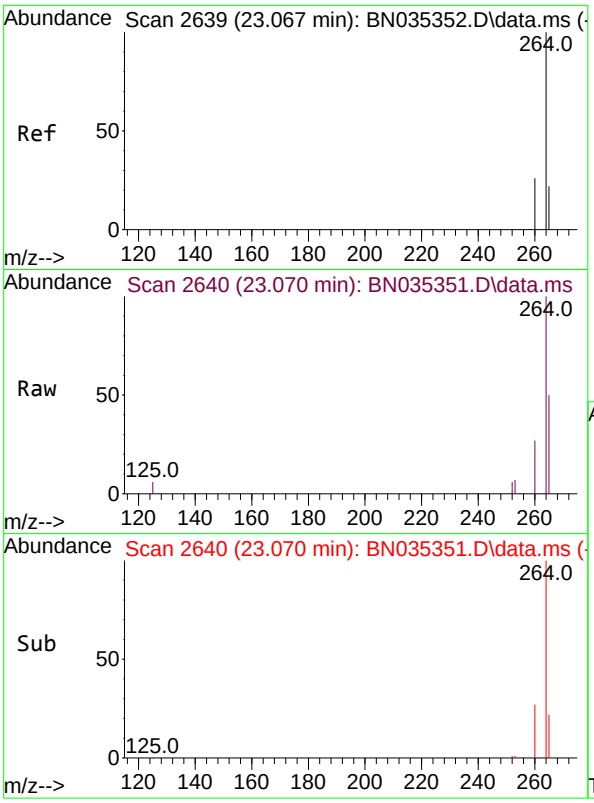


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#

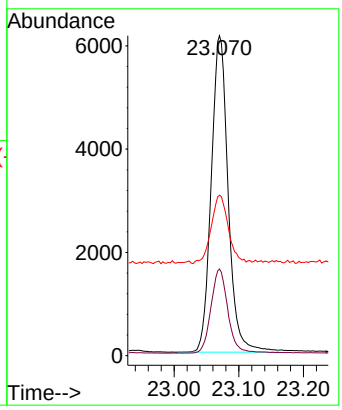




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

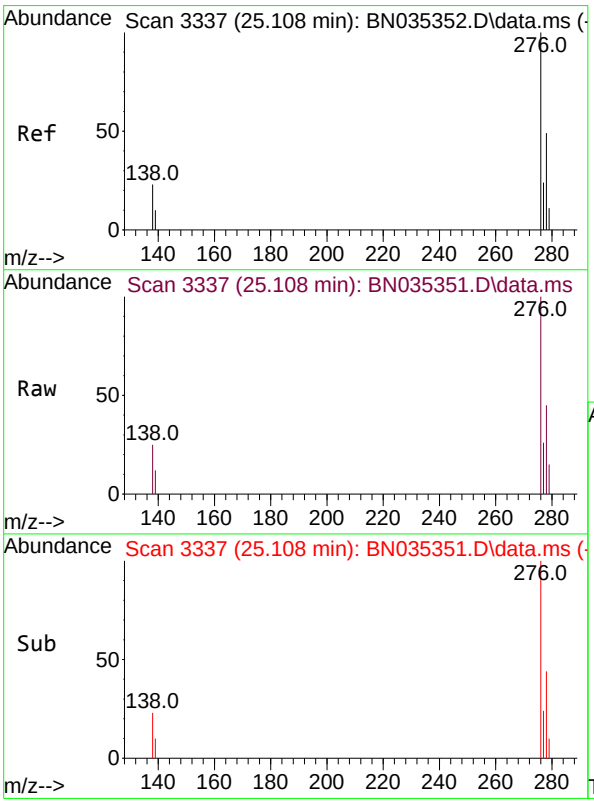
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

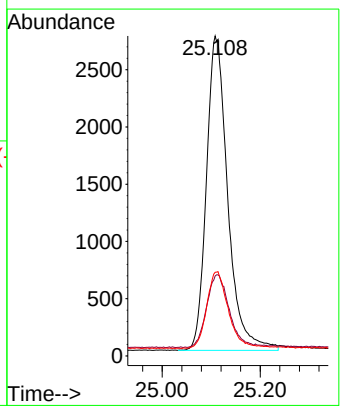
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

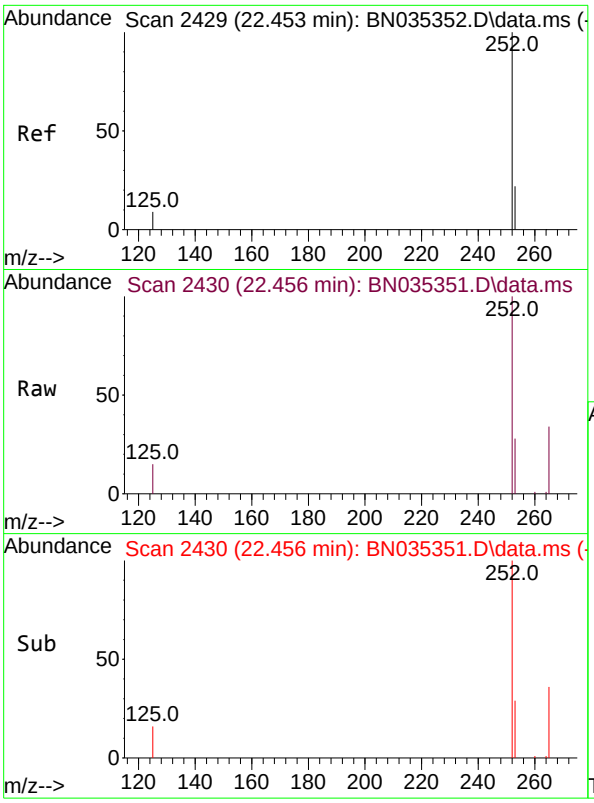


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6

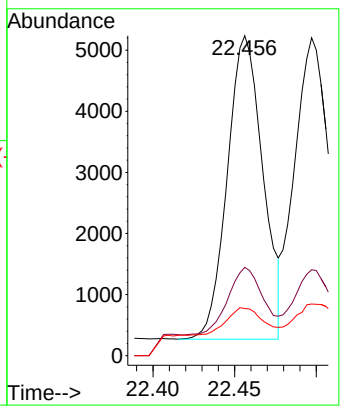




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

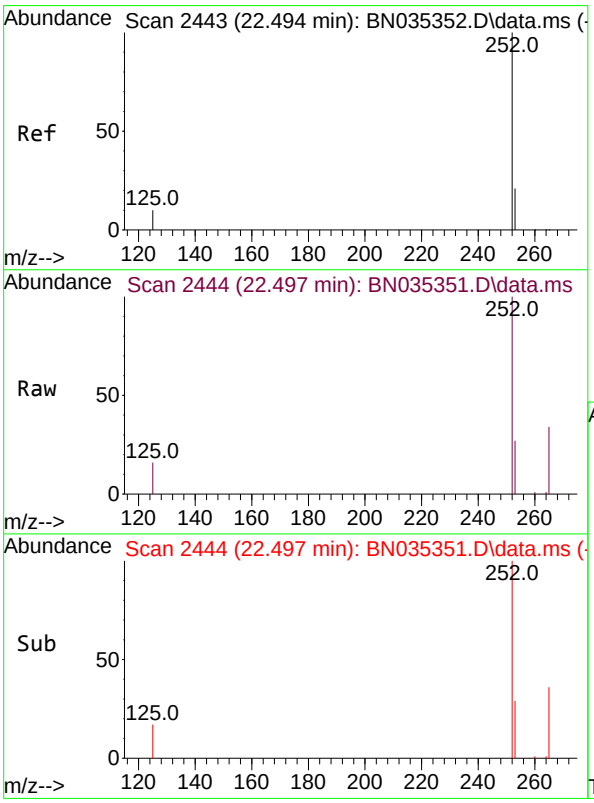
Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

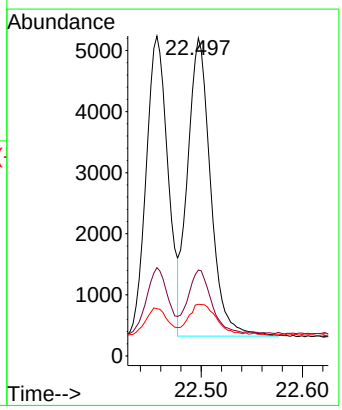
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

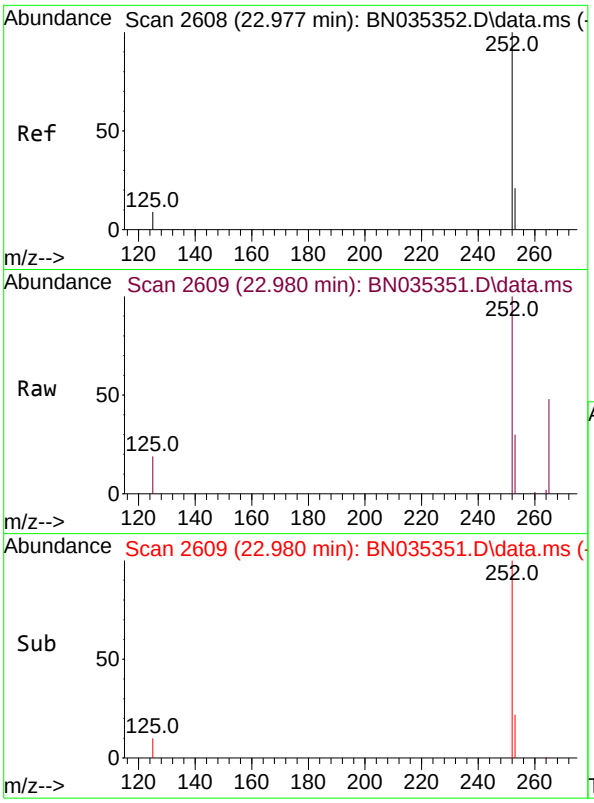


#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	16.2	10.2	15.4#

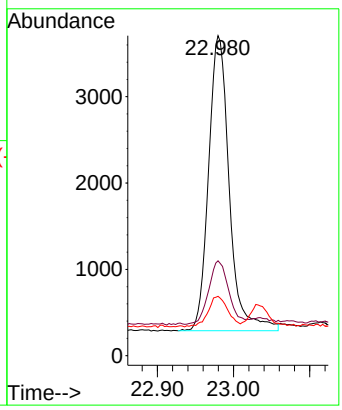




#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

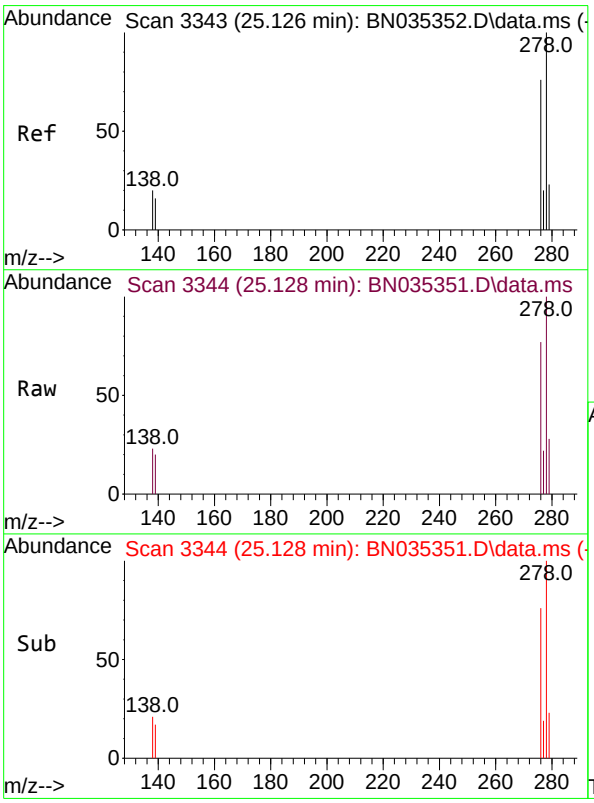
Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

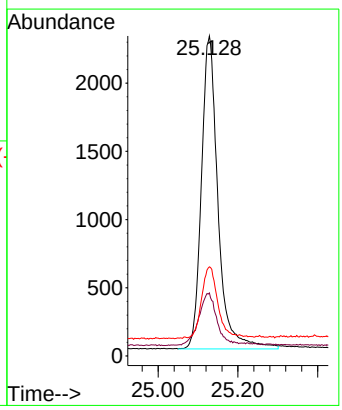
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

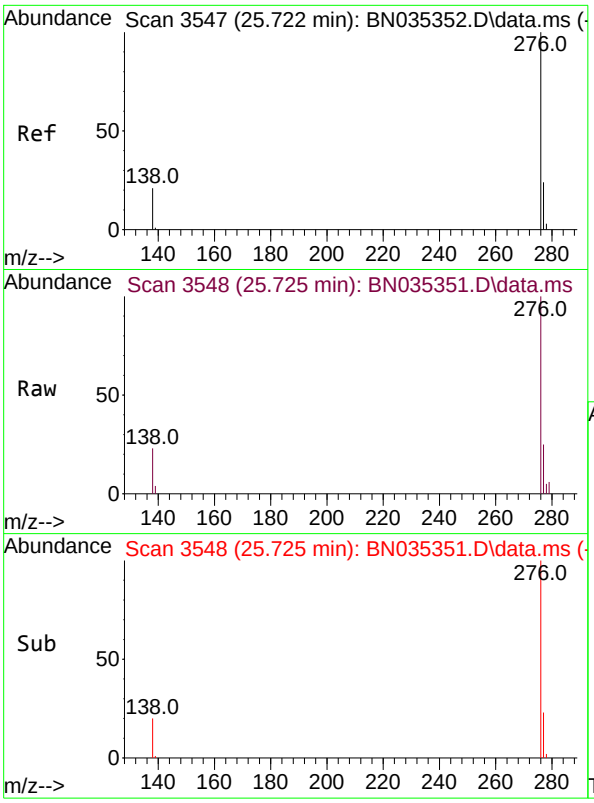


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7

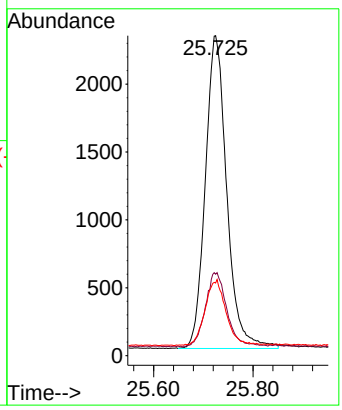




#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1228m	0.270	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

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

Quantitation Report (QT Reviewed)

ICAL Form

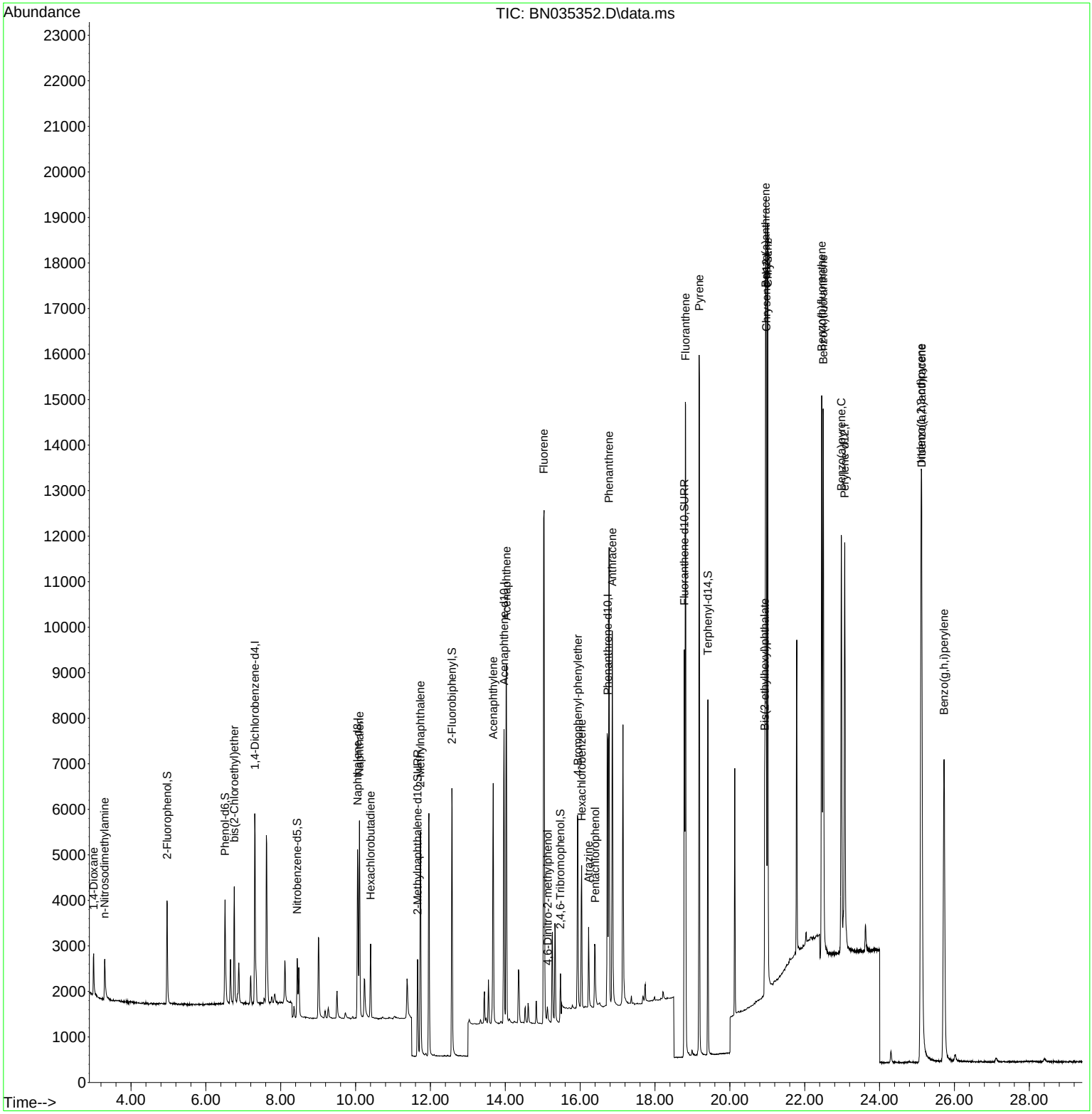
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

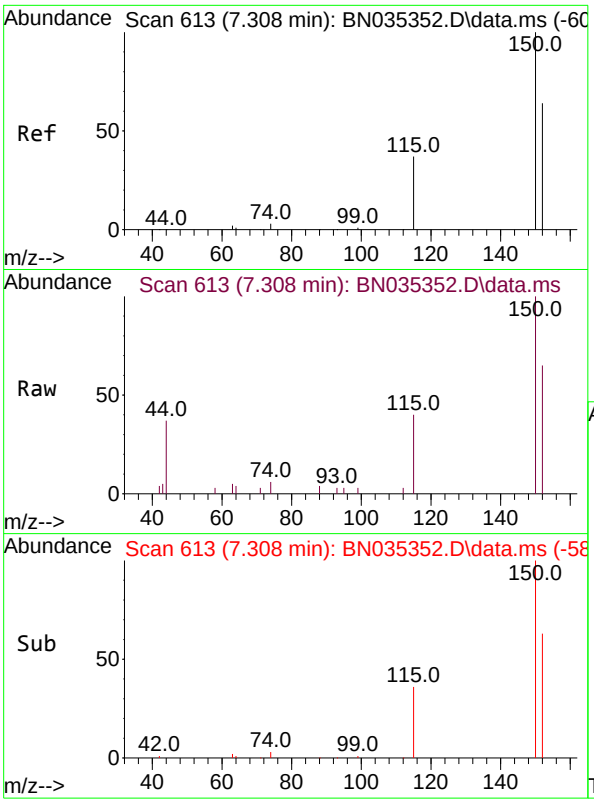
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

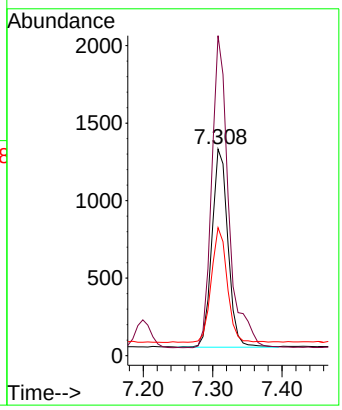




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

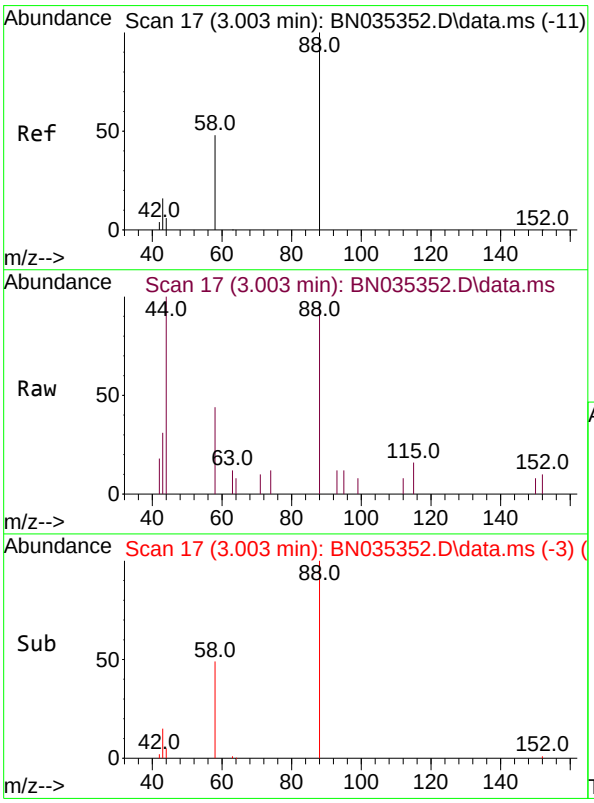
Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

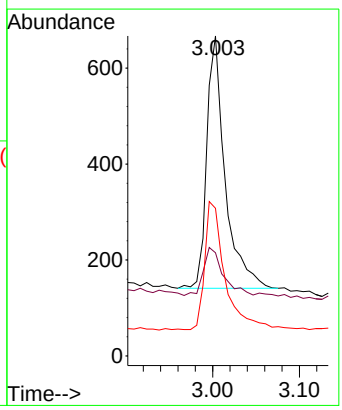
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

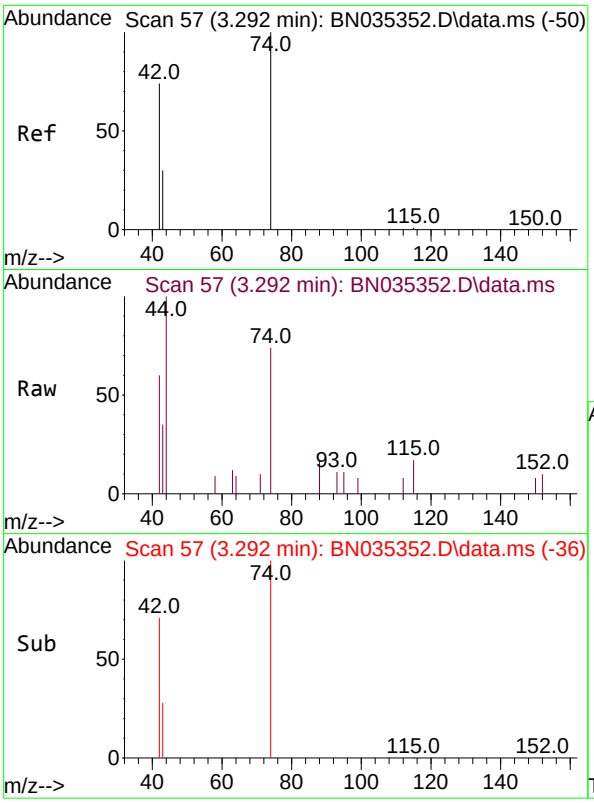


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7

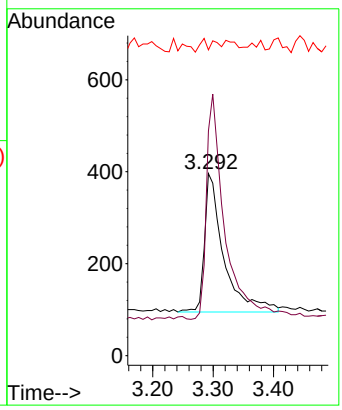




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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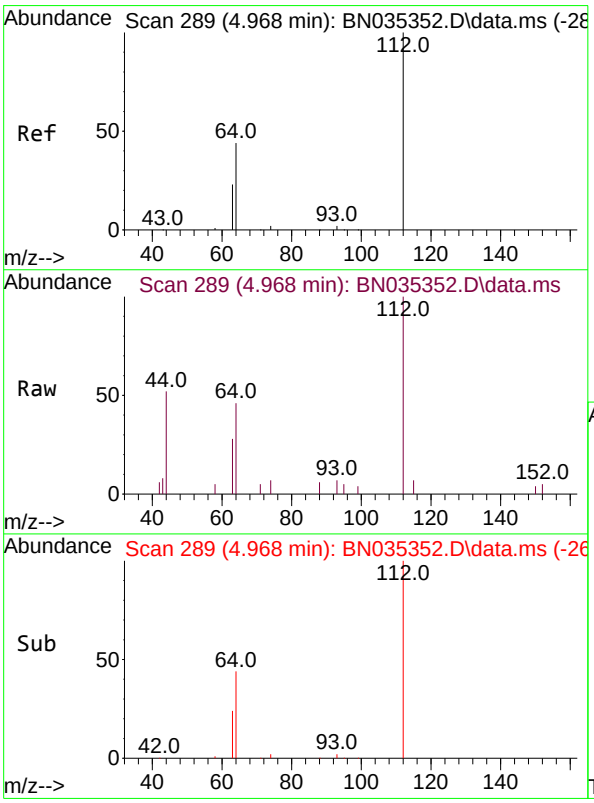
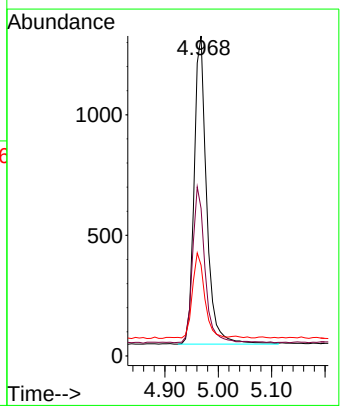
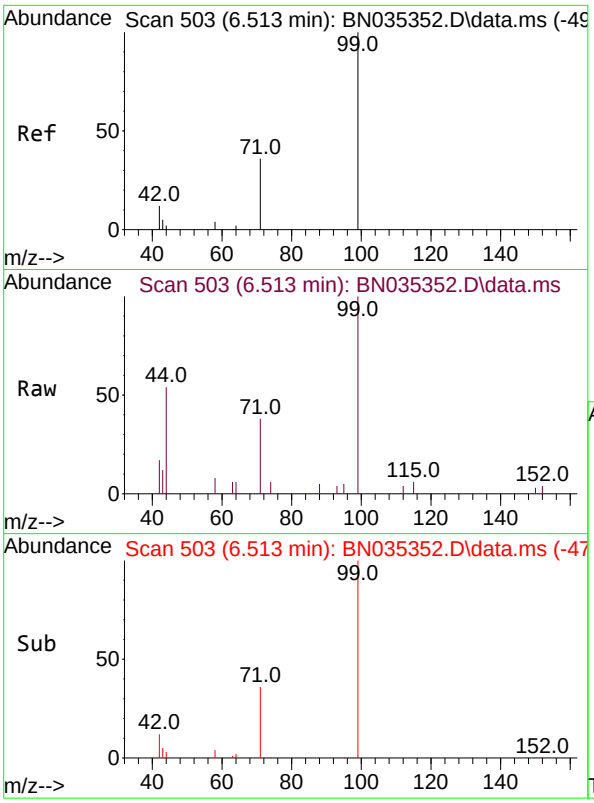


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6

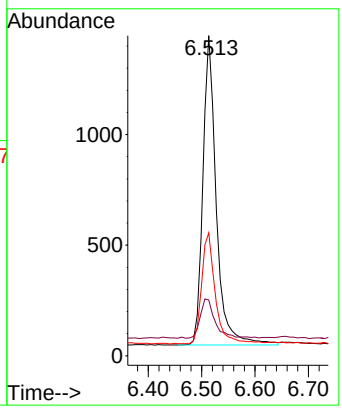




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 99 Resp: 244

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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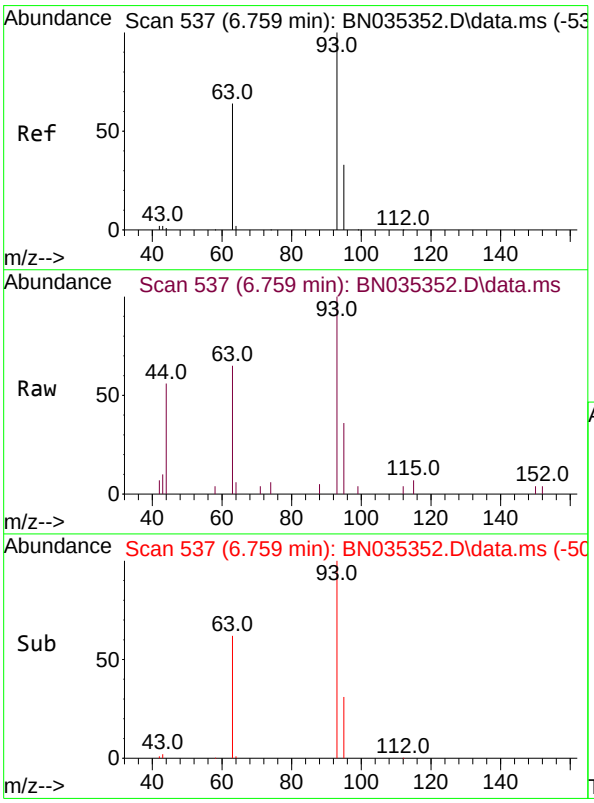
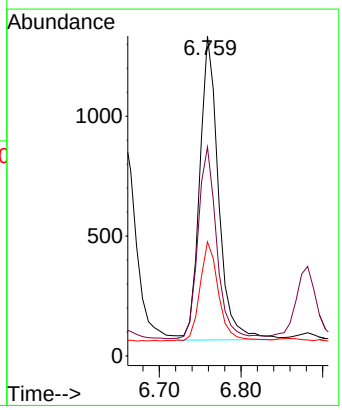
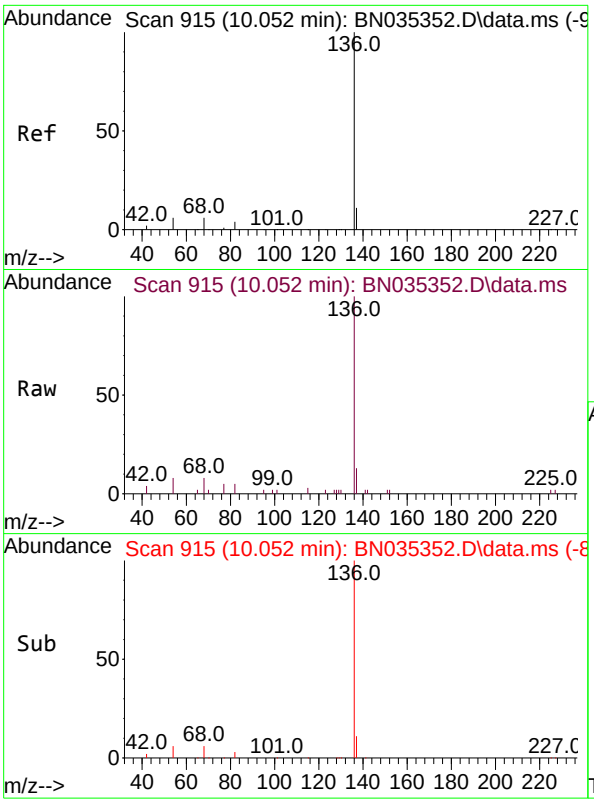


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5

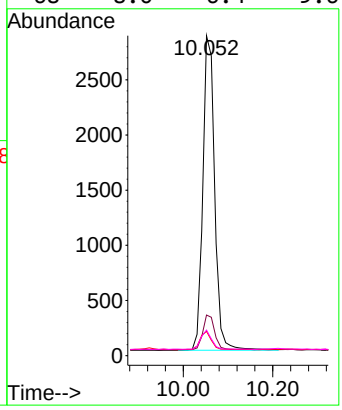




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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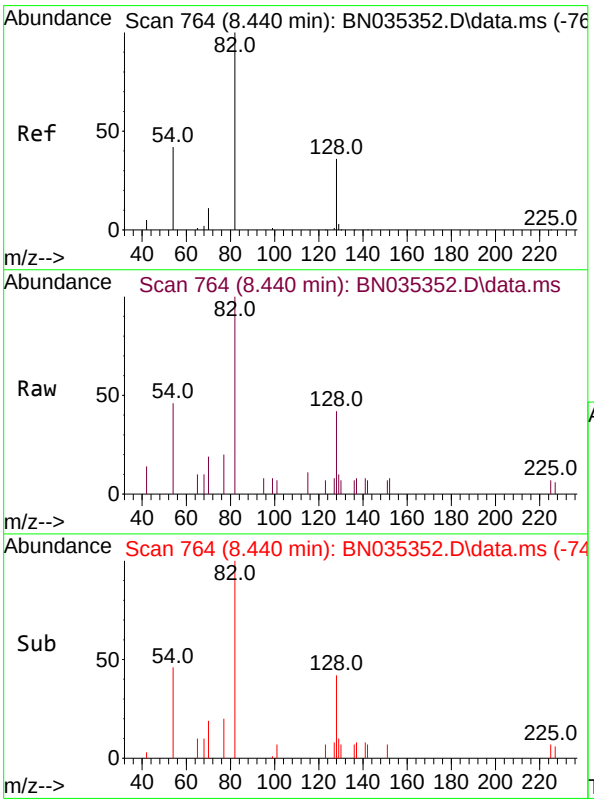
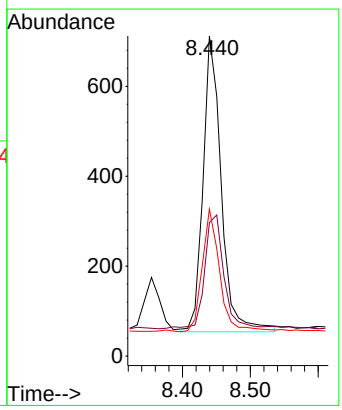
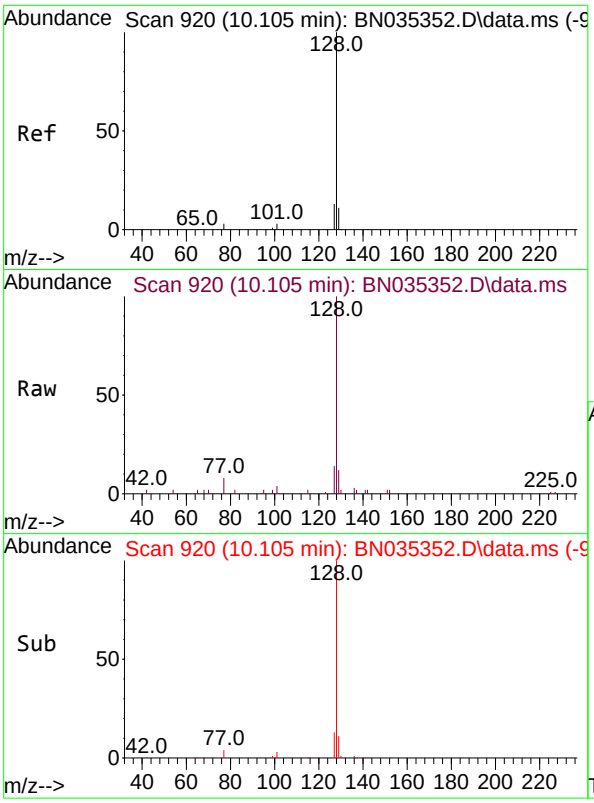


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1





#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:128 Resp: 547

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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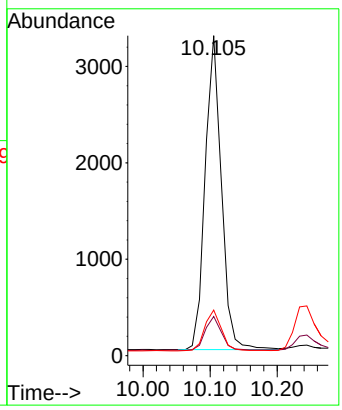
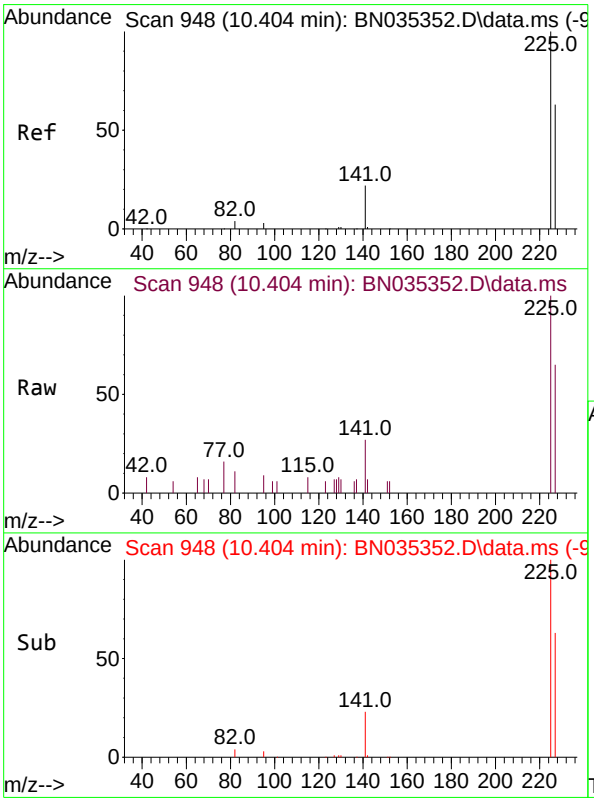
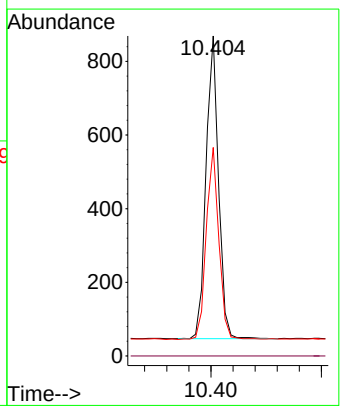


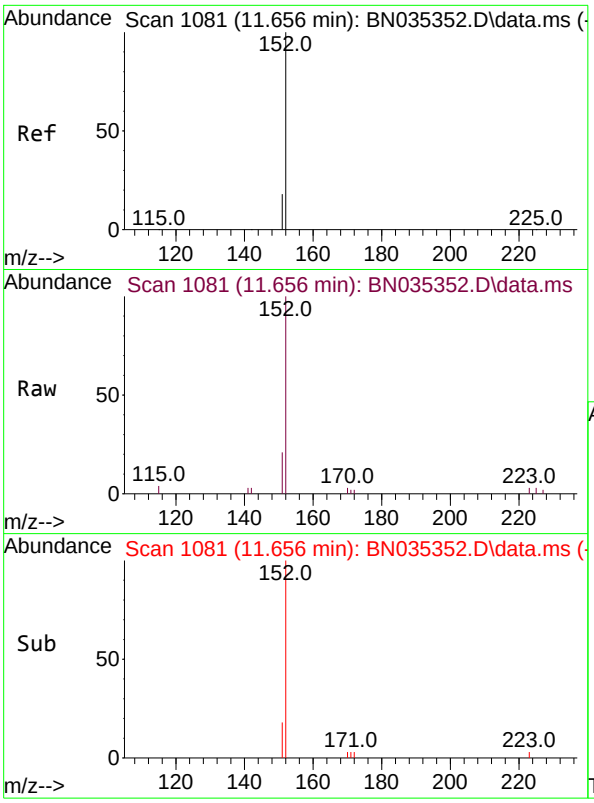


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 323

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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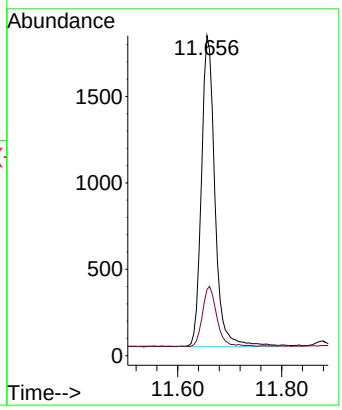
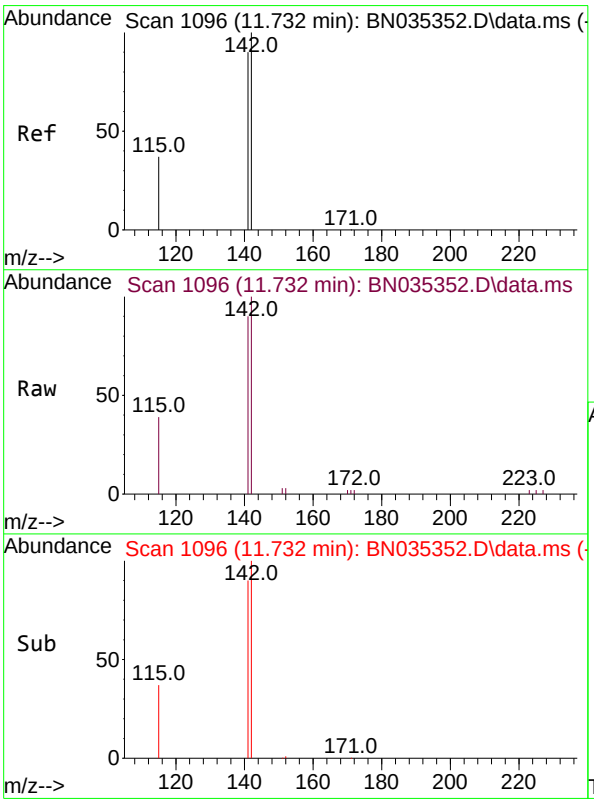
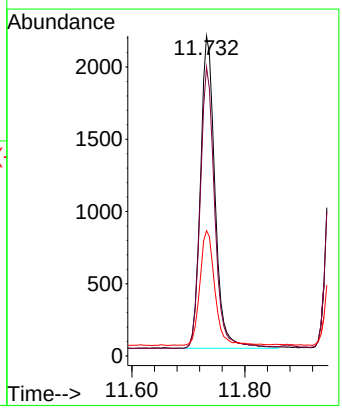


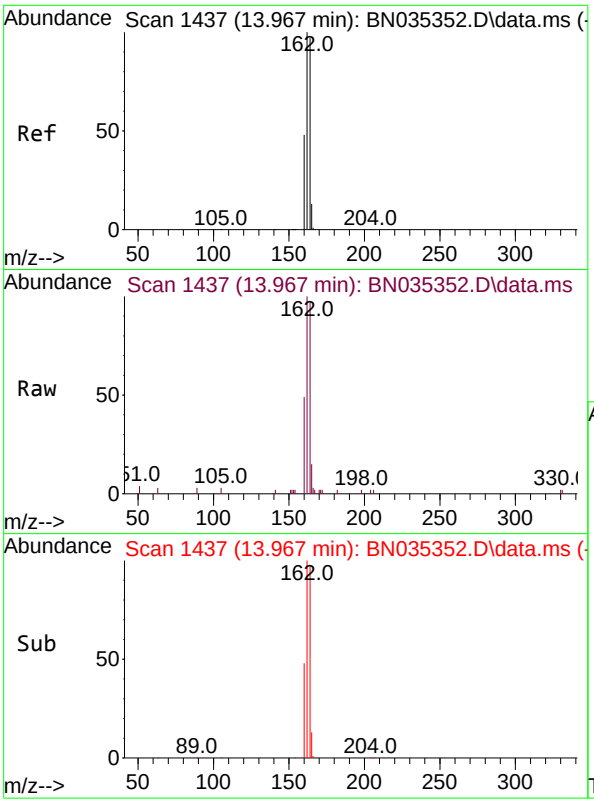


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0

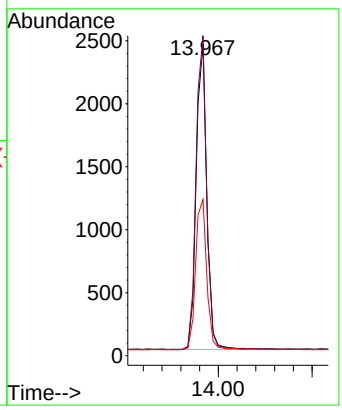




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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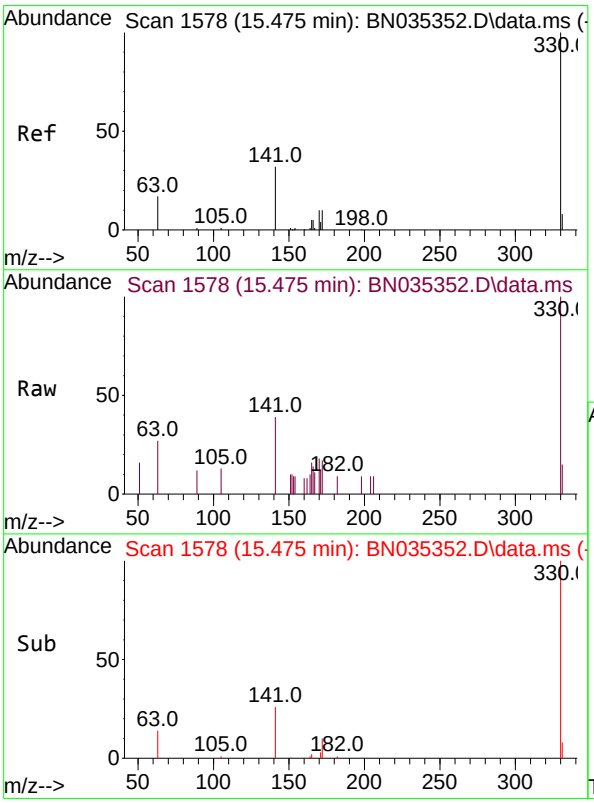
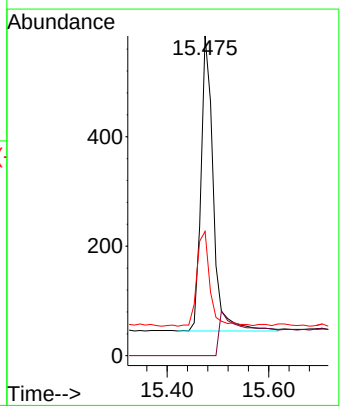
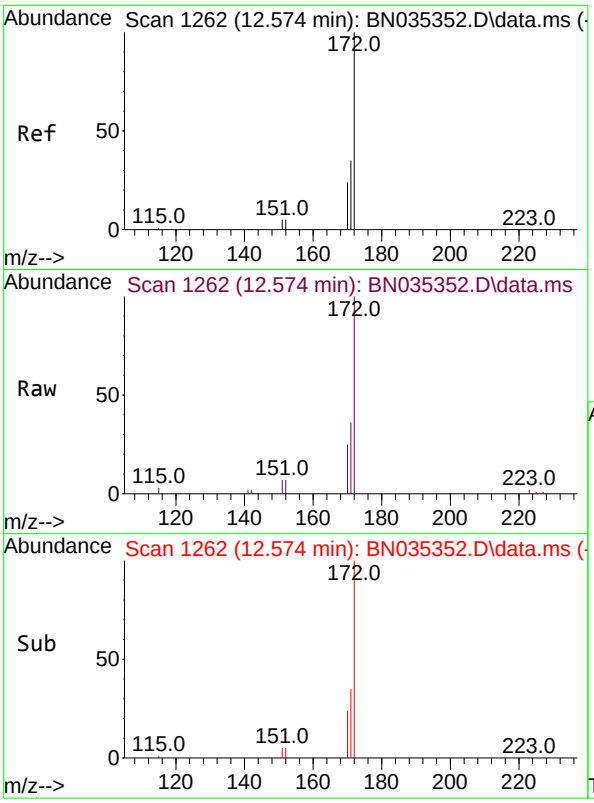


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

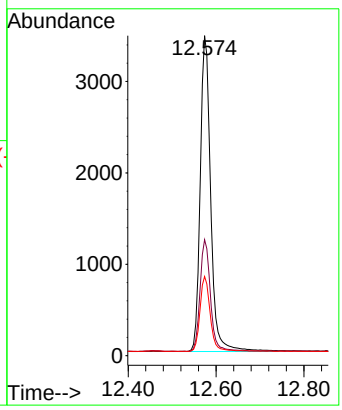




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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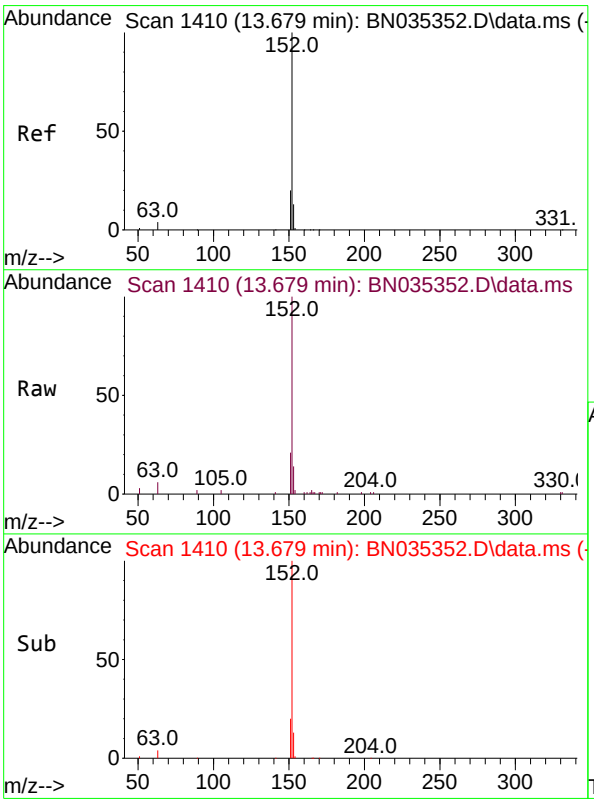
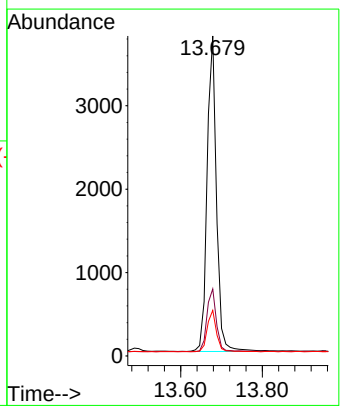
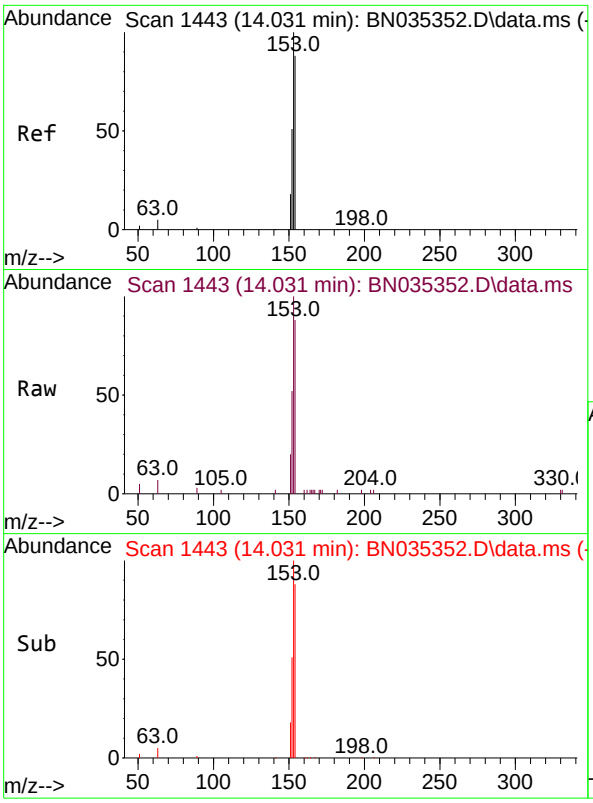


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6

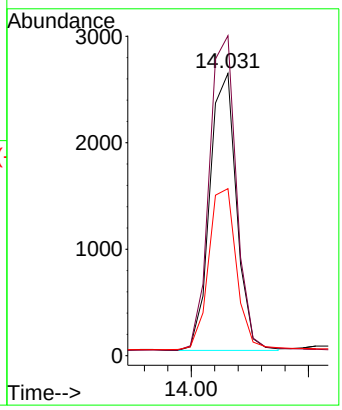




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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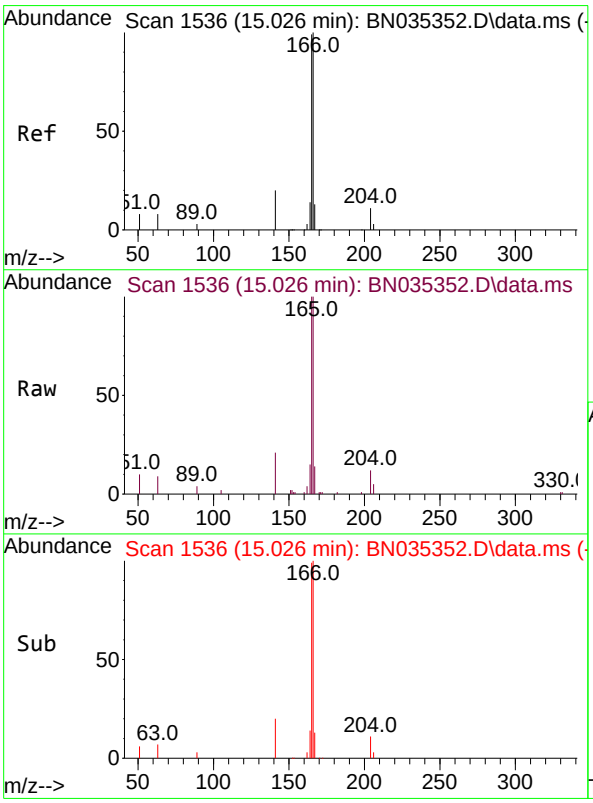
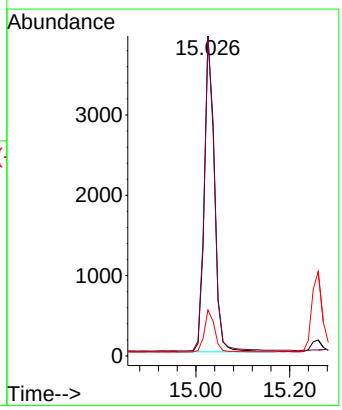
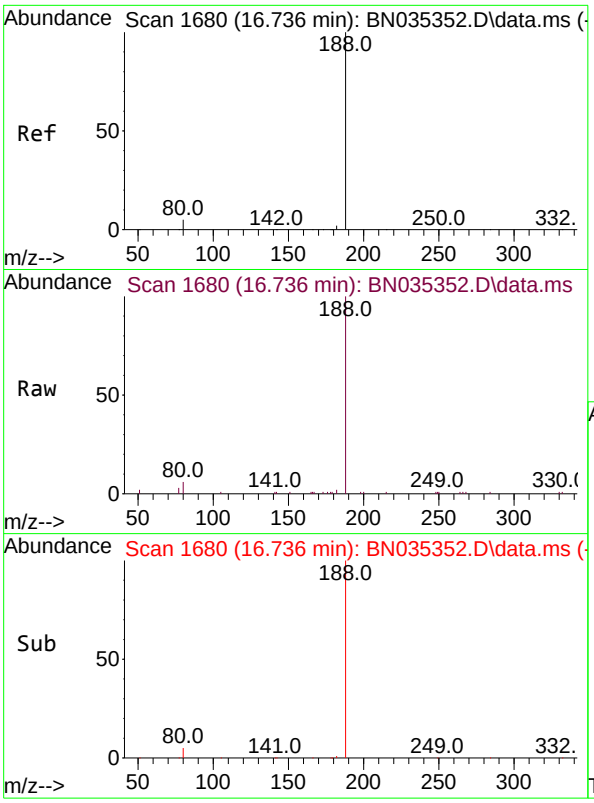


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2

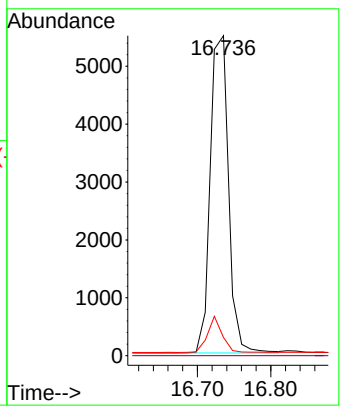




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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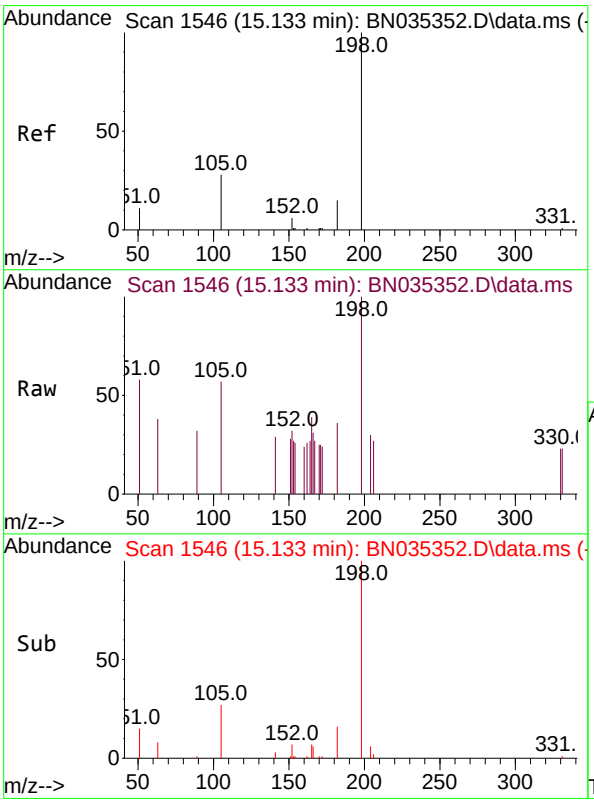
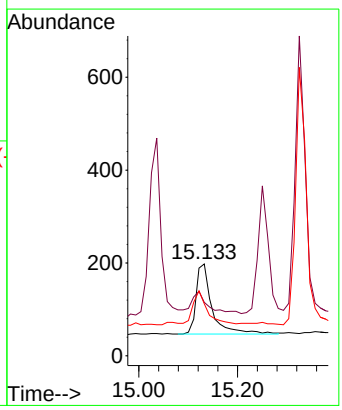
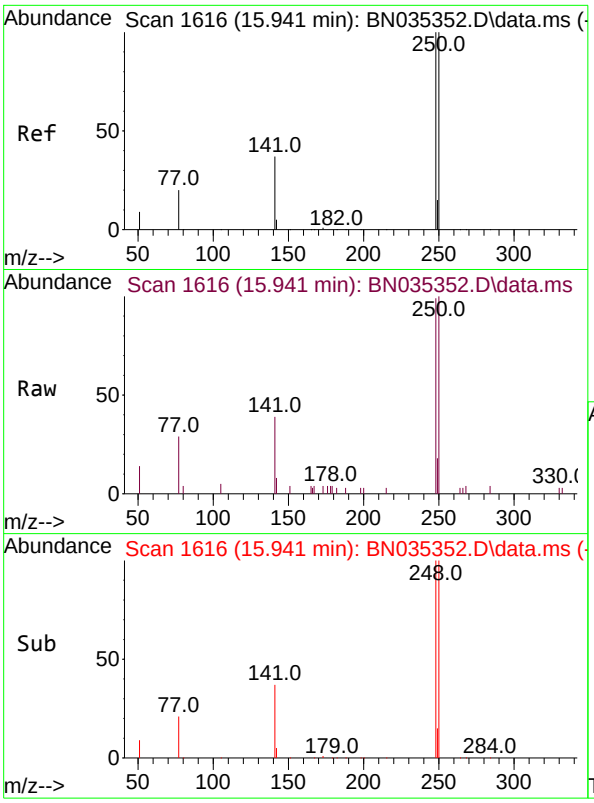


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:248 Resp: 214(

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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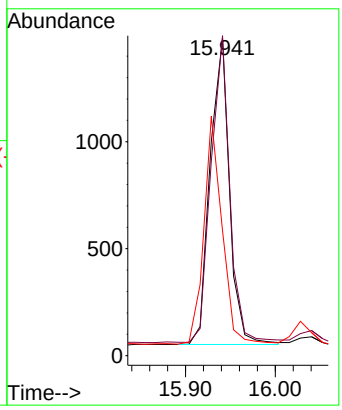
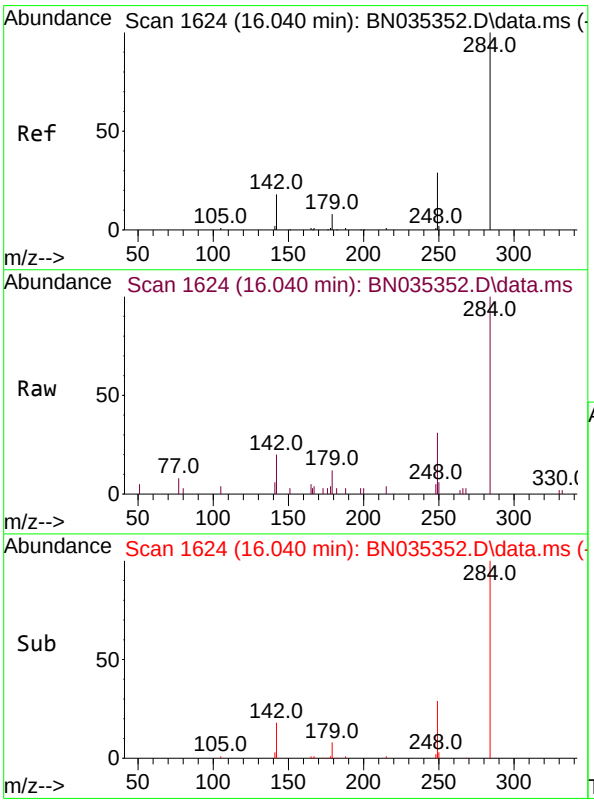
Supervised By :mohammad ahmed 12/03/2024

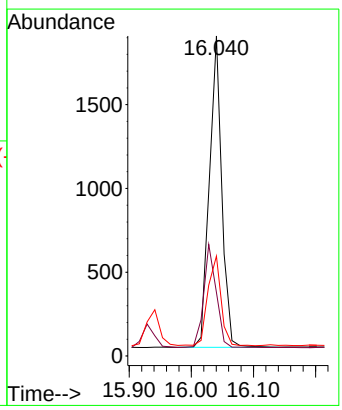


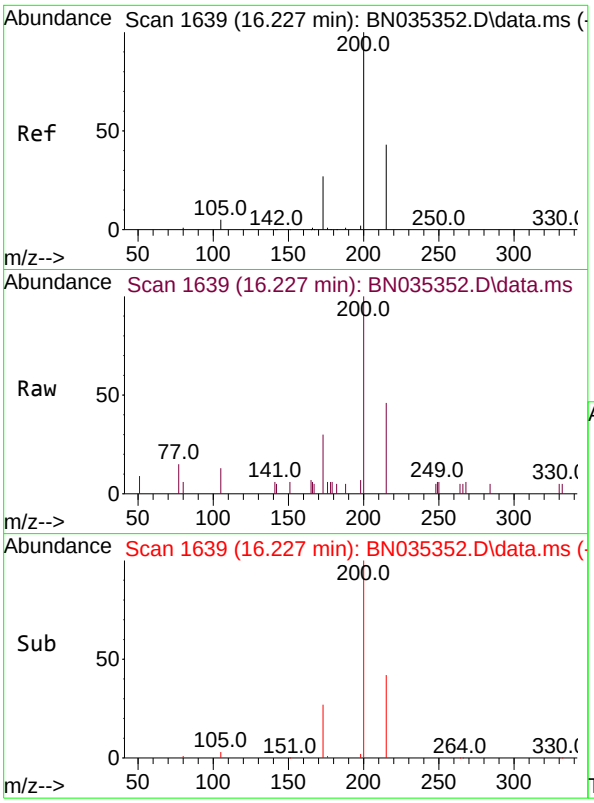


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8

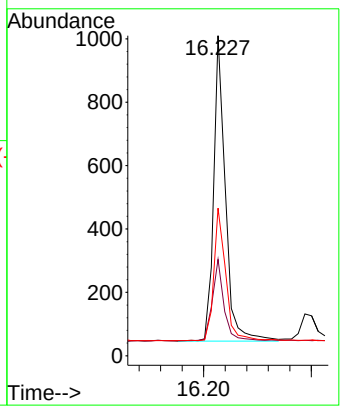




#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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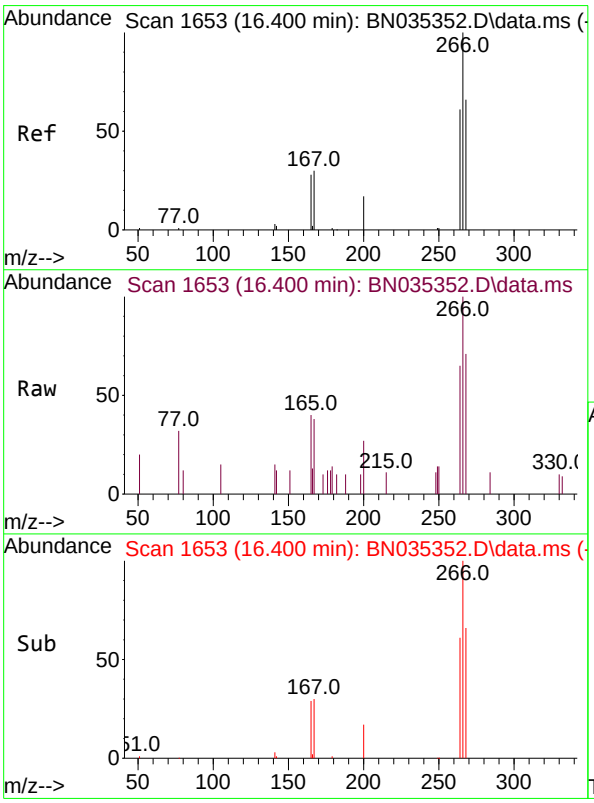
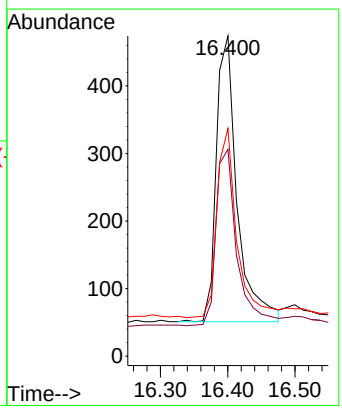
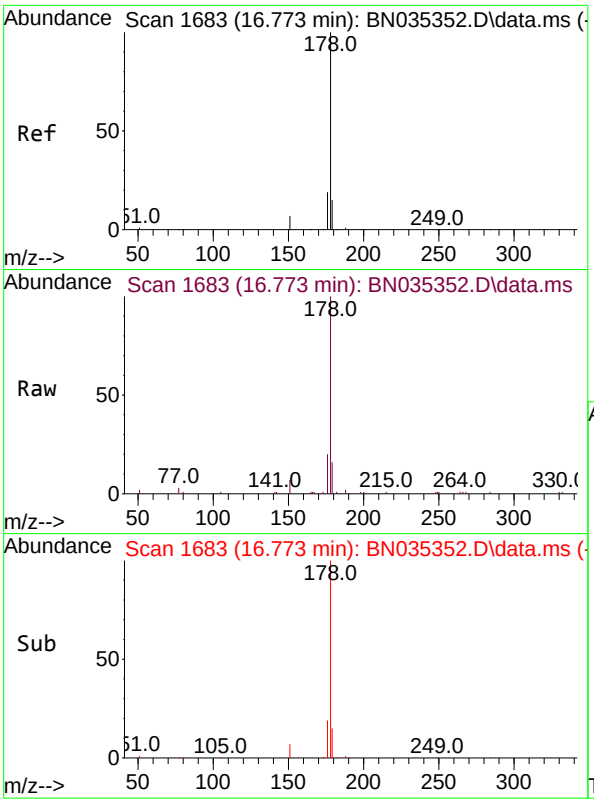


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9

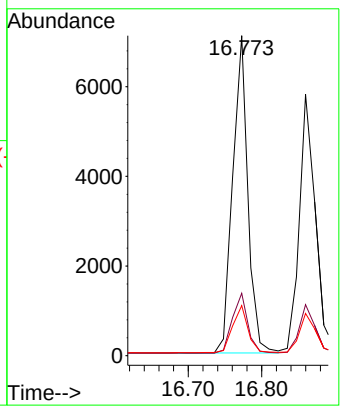




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 1012

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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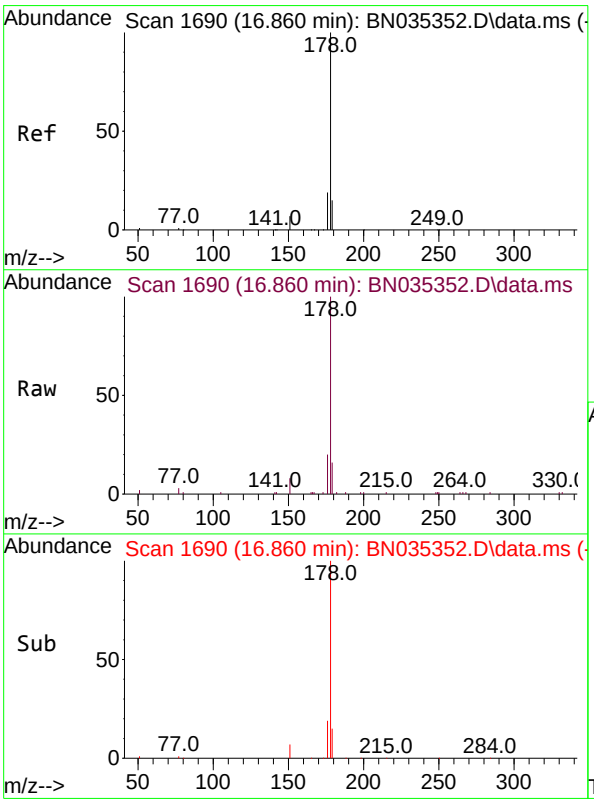
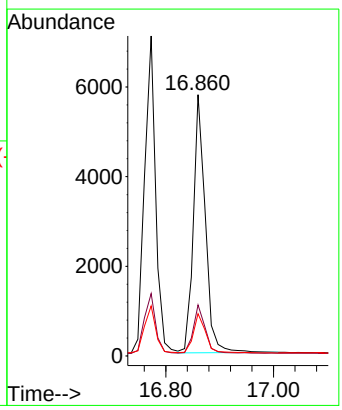
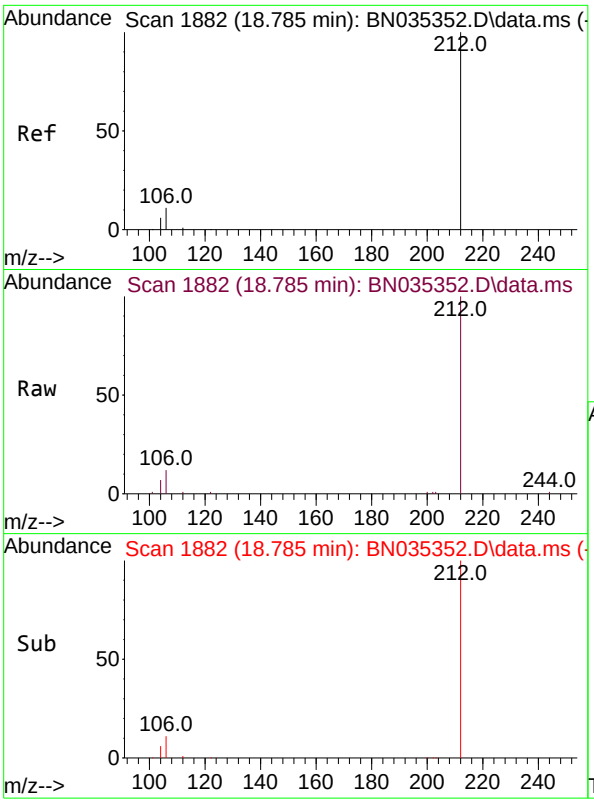


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8

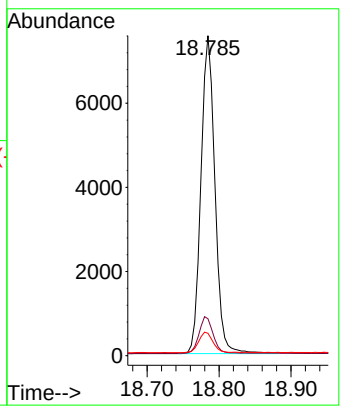




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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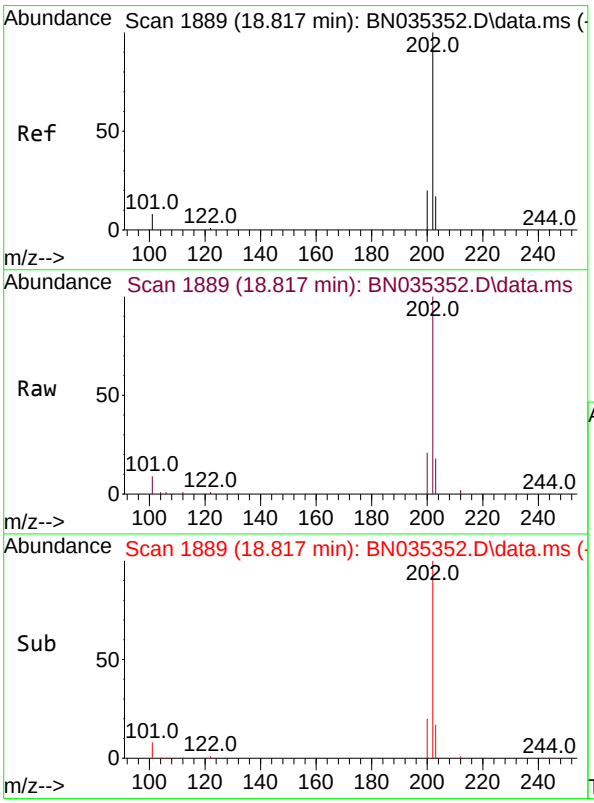
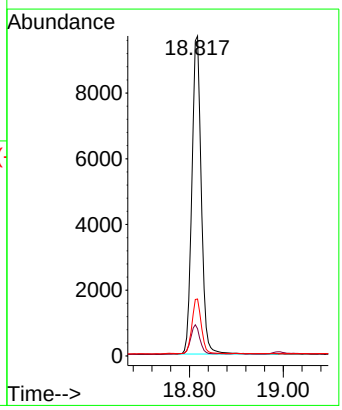
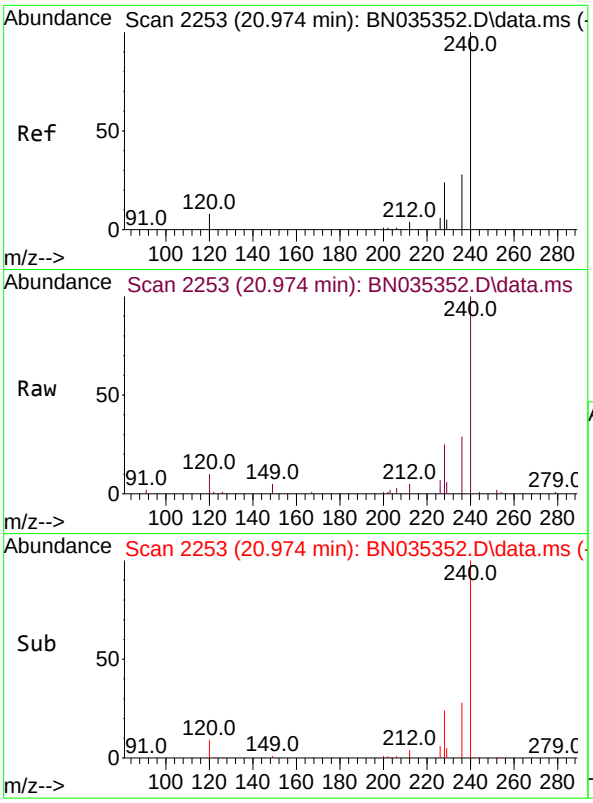


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

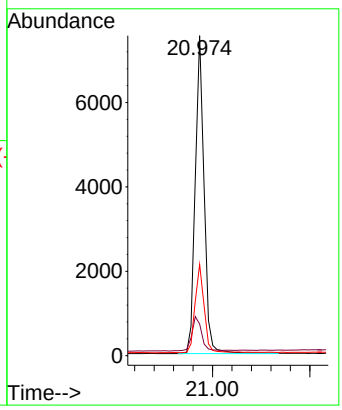




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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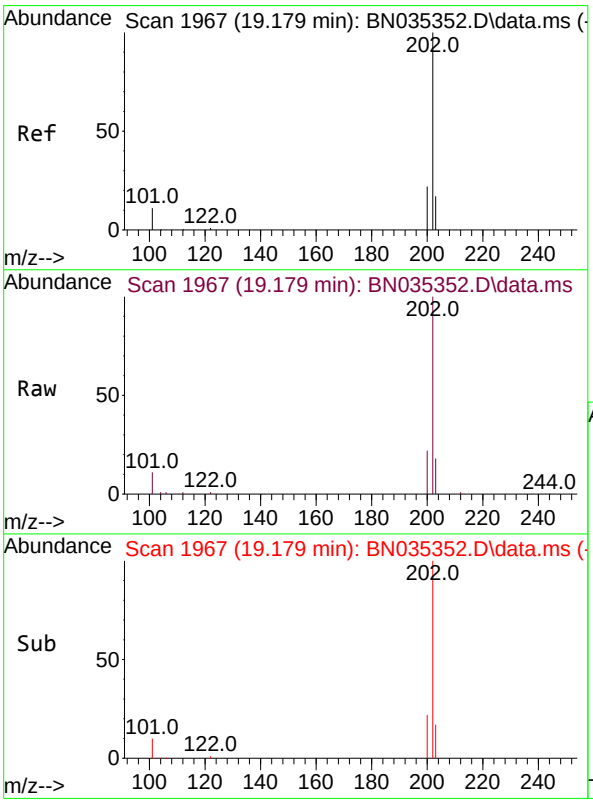
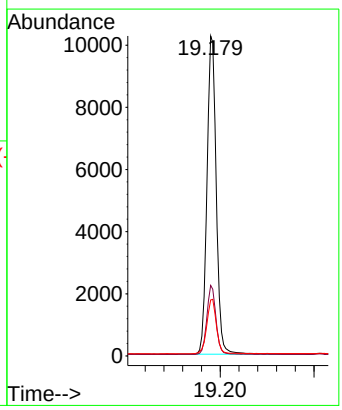
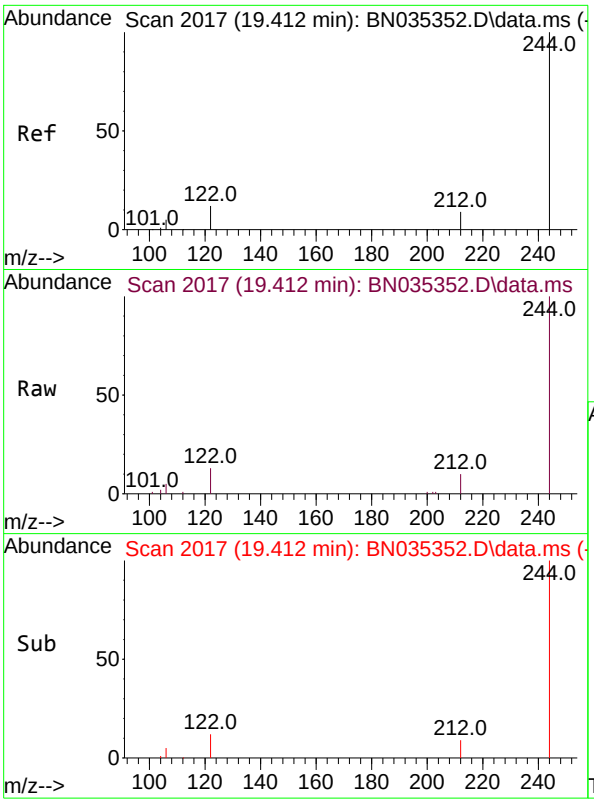


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5

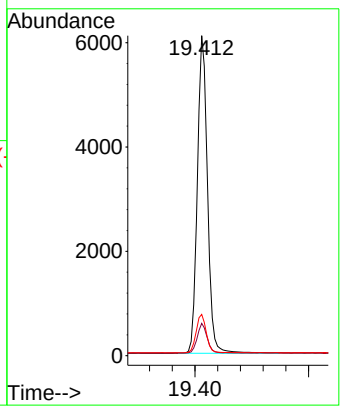




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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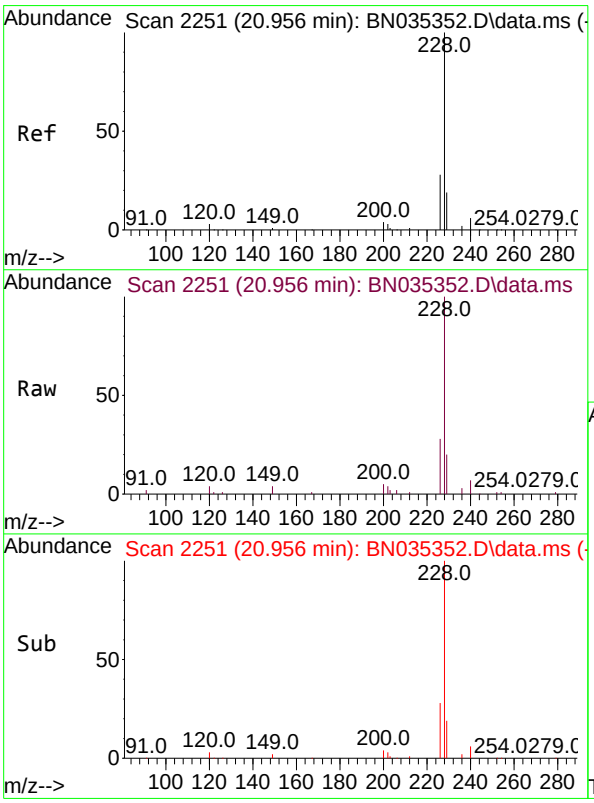
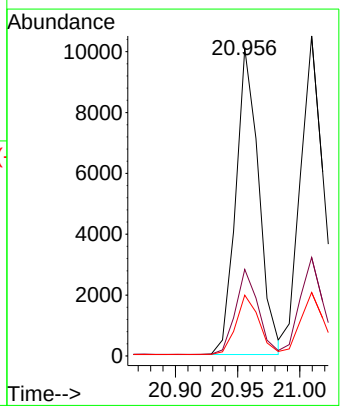
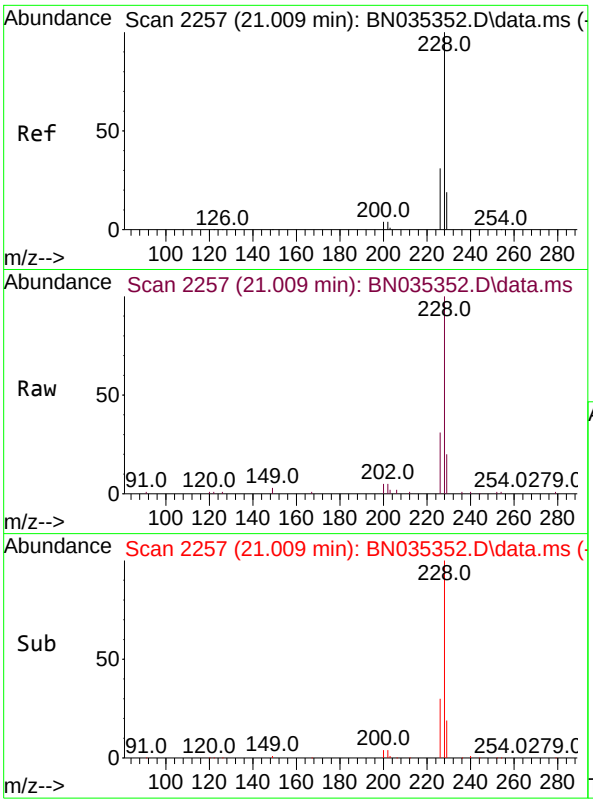


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8

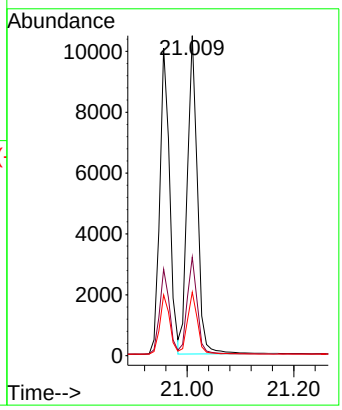




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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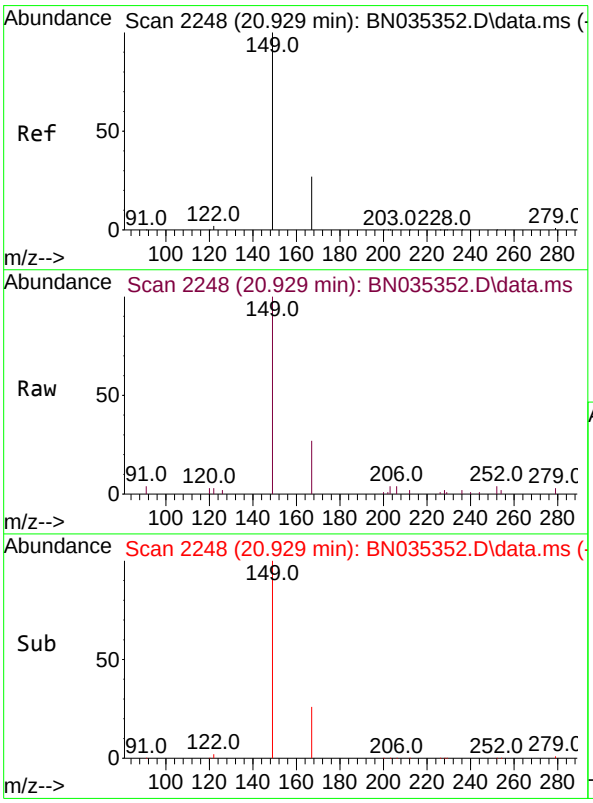
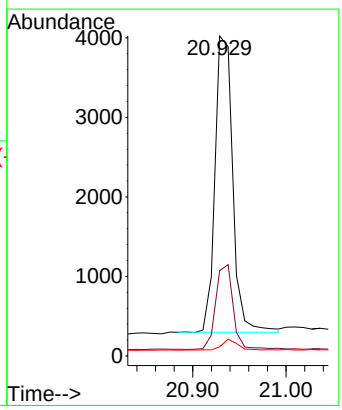
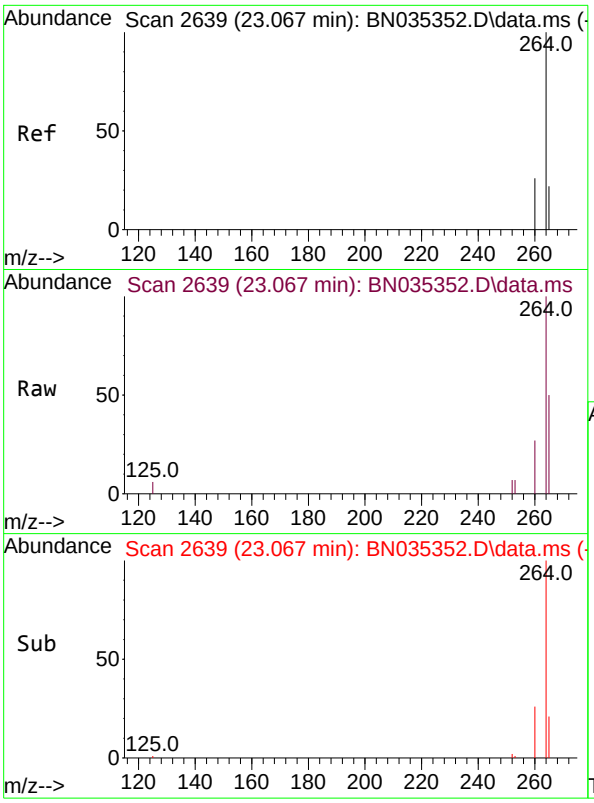


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1

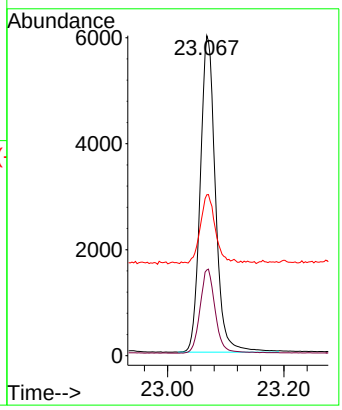




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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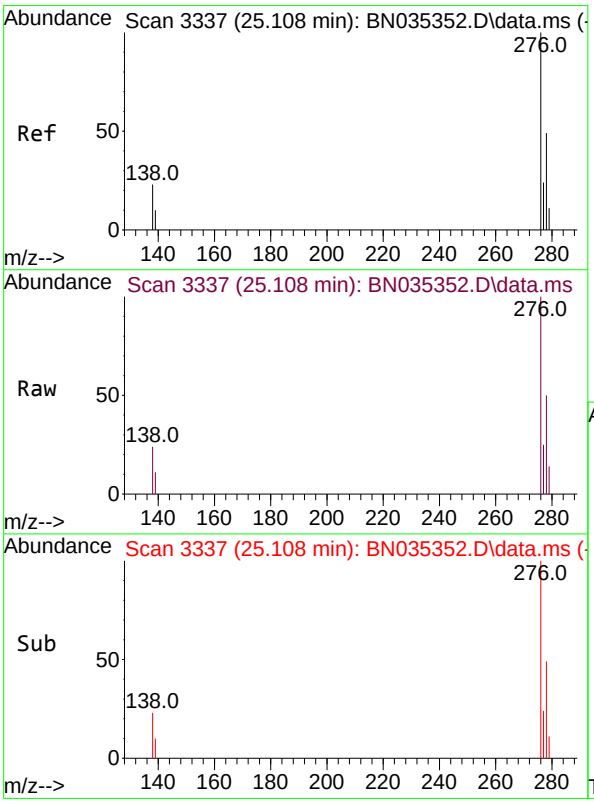
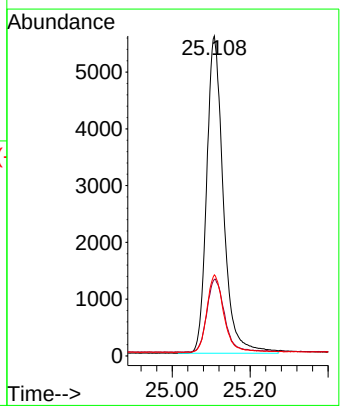
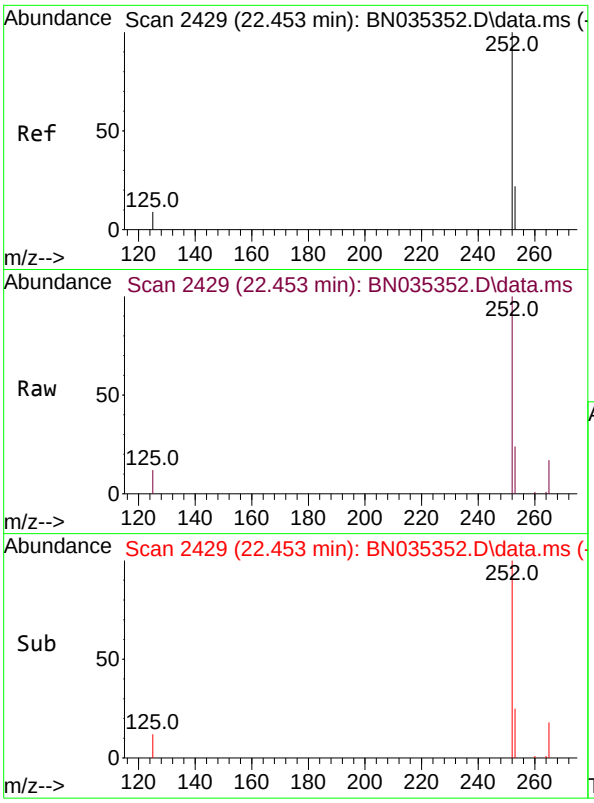


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6

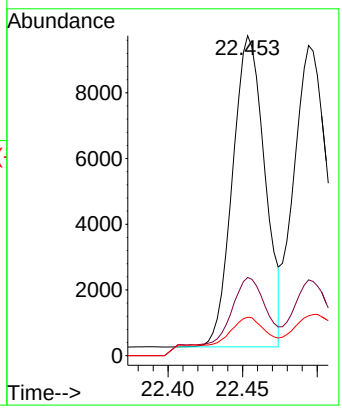




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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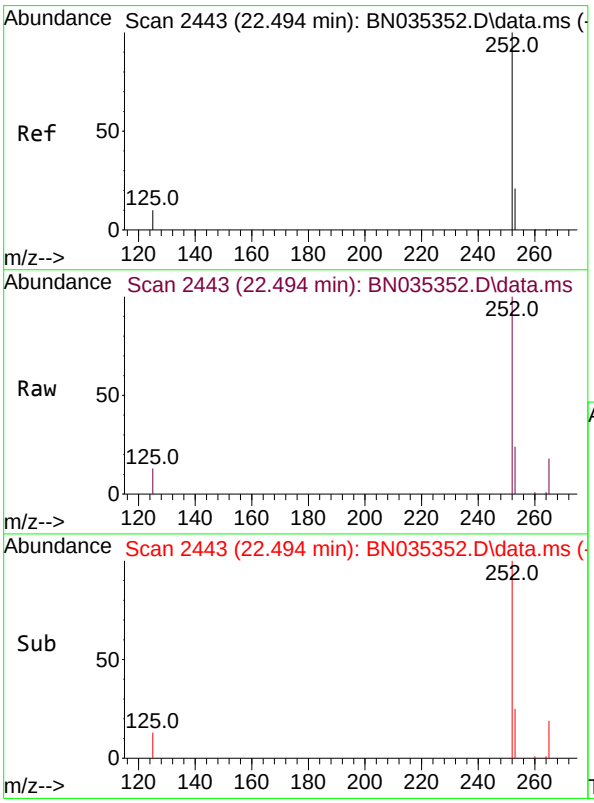
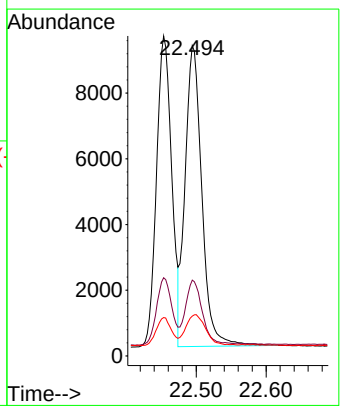
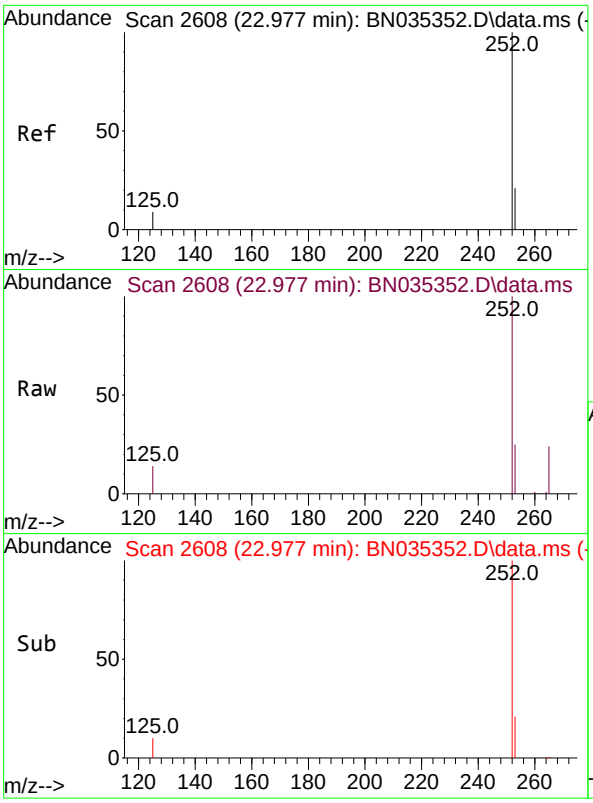


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4

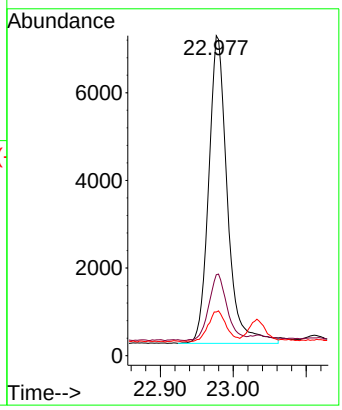




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1242

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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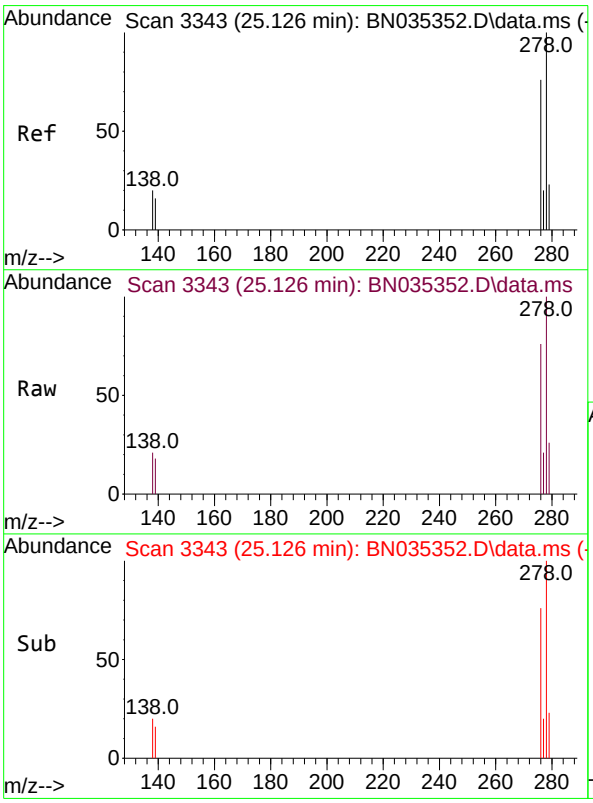
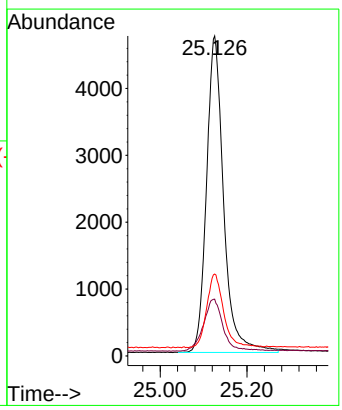
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

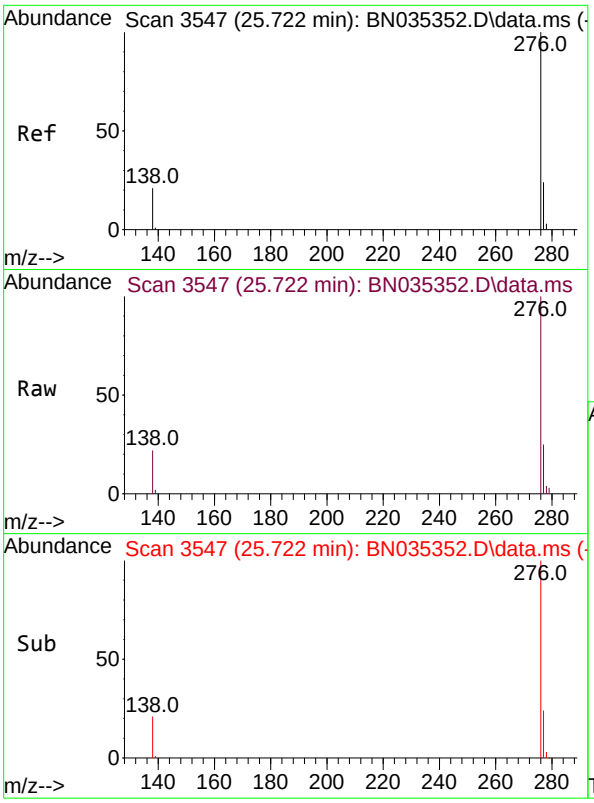


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7

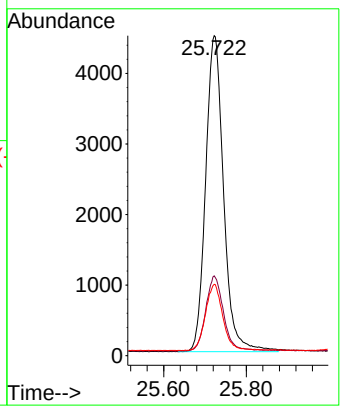




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9837	0.400	ng		0.00
35) Perylene-d12	23.067	264	10698	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	3924	0.755	ng		0.00
5) Phenol-d6	6.513	99	4681	0.718	ng		0.00
8) Nitrobenzene-d5	8.440	82	2634	0.570	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	6530	0.690	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	2051	0.744	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	11528	0.742	ng		0.00
27) Fluoranthene-d10	18.785	212	21050	0.721	ng		0.00
31) Terphenyl-d14	19.412	244	15171	0.735	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	1554	0.836	ng		99
3) n-Nitrosodimethylamine	3.292	42	1291	0.745	ng	#	98
6) bis(2-Chloroethyl)ether	6.759	93	4066	0.831	ng		100
9) Naphthalene	10.105	128	10954	0.790	ng		99
10) Hexachlorobutadiene	10.404	225	2559	0.630	ng	#	100
12) 2-Methylnaphthalene	11.732	142	7925	0.775	ng		99
16) Acenaphthylene	13.679	152	12523	0.766	ng		100
17) Acenaphthene	14.031	154	8470	0.791	ng		99
18) Fluorene	15.026	166	12232	0.777	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	784	0.395	ng	#	88
21) 4-Bromophenyl-phenylether	15.941	248	4440	0.732	ng		98
22) Hexachlorobenzene	16.041	284	5253	0.834	ng		99
23) Atrazine	16.227	200	2978	0.547	ng		99
24) Pentachlorophenol	16.400	266	1968	0.669	ng		87
25) Phenanthrene	16.773	178	20803	0.830	ng		100
26) Anthracene	16.860	178	18528	0.805	ng		99
28) Fluoranthene	18.813	202	27743	0.805	ng		100
30) Pyrene	19.180	202	28384	0.866	ng		100
32) Benzo(a)anthracene	20.956	228	27048	0.790	ng		99
33) Chrysene	21.010	228	27838	0.820	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	9941	0.553	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	33248	0.779	ng		100
37) Benzo(b)fluoranthene	22.453	252	29491	0.819	ng		96
38) Benzo(k)fluoranthene	22.494	252	30369	0.843	ng		96
39) Benzo(a)pyrene	22.977	252	25053	0.791	ng		96
40) Dibenzo(a,h)anthracene	25.123	278	26222	0.775	ng		98
41) Benzo(g,h,i)perylene	25.722	276	27143	0.755	ng		98

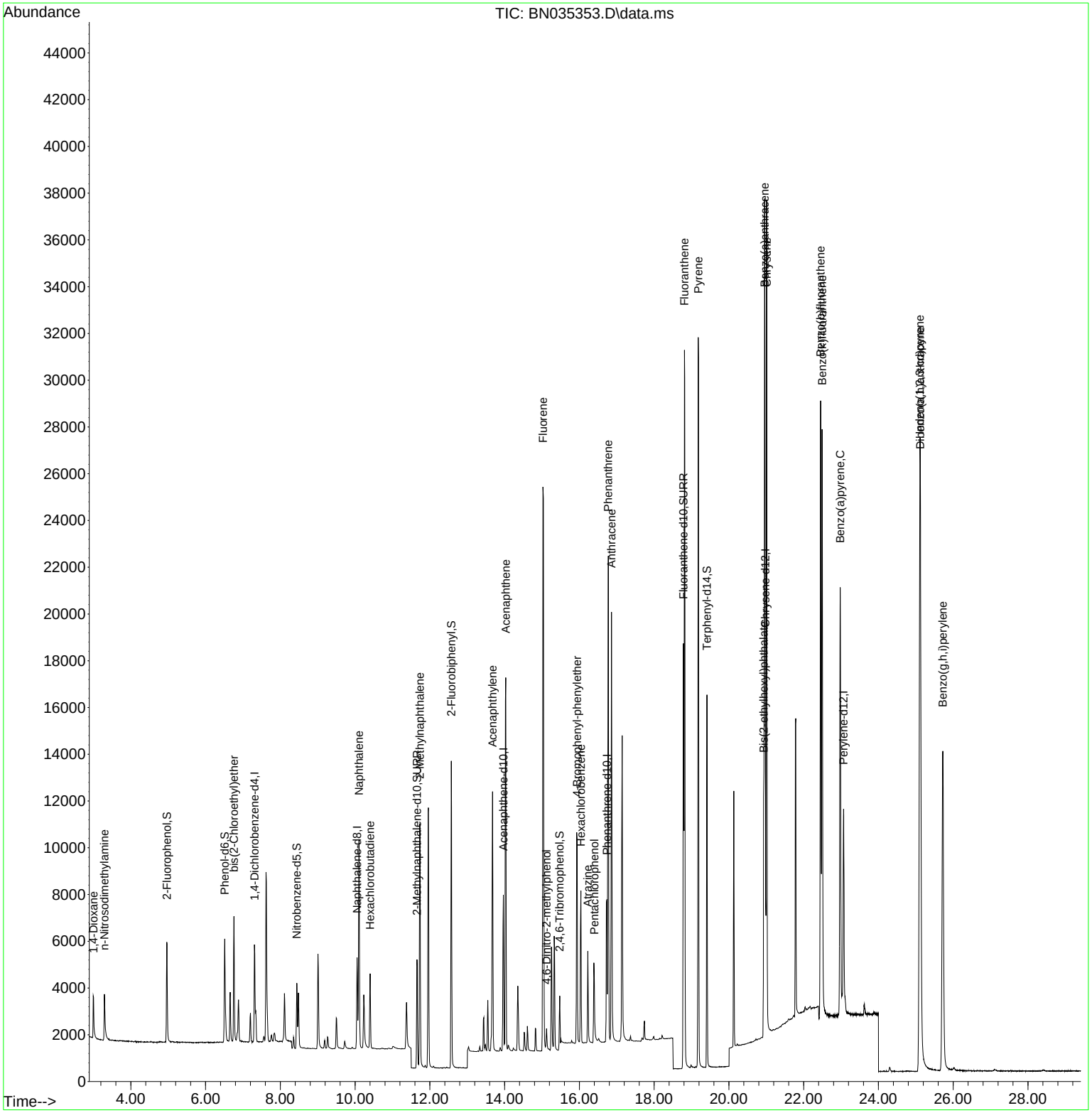
(#) = qualifier out of range (m) = manual integration (+) = signals summed

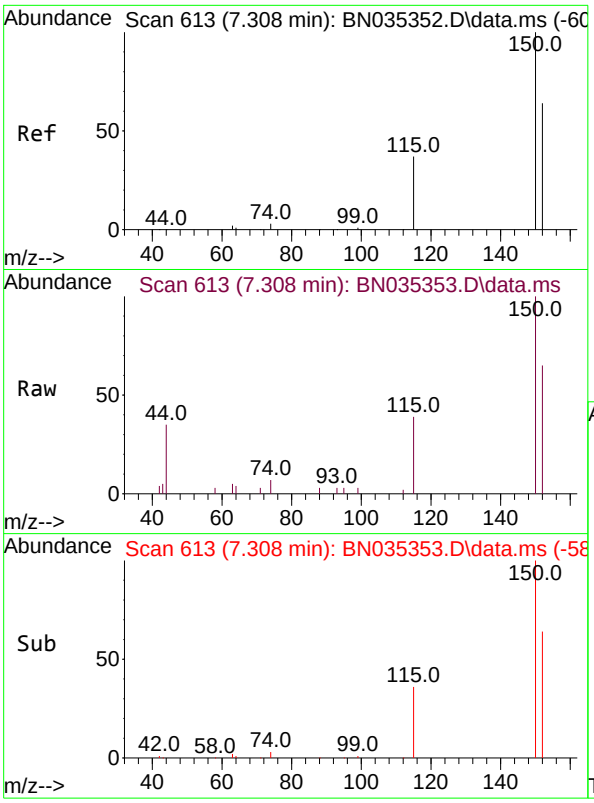
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 27 22:53:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



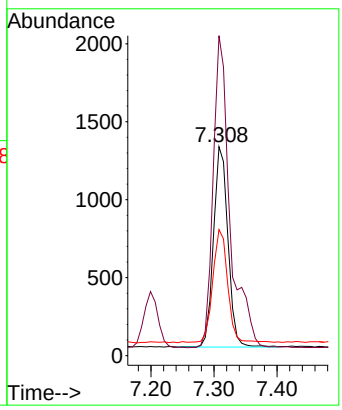


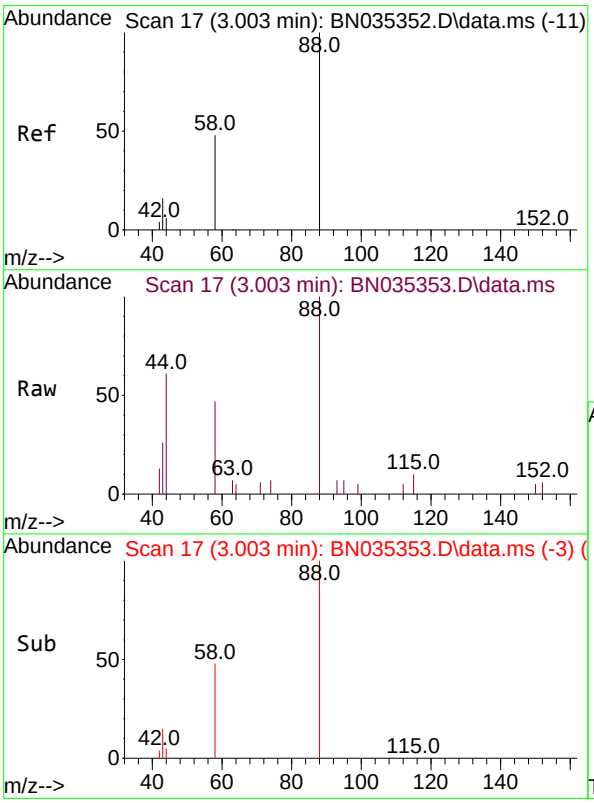
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2047

Ion	Ratio	Lower	Upper
152	100		
150	153.1	124.0	186.0
115	60.3	49.6	74.4

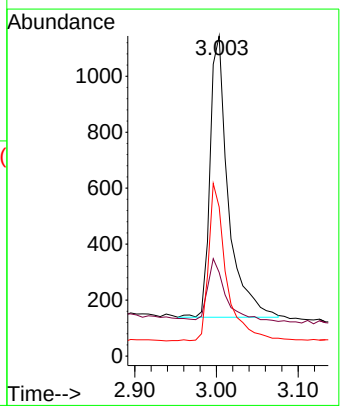


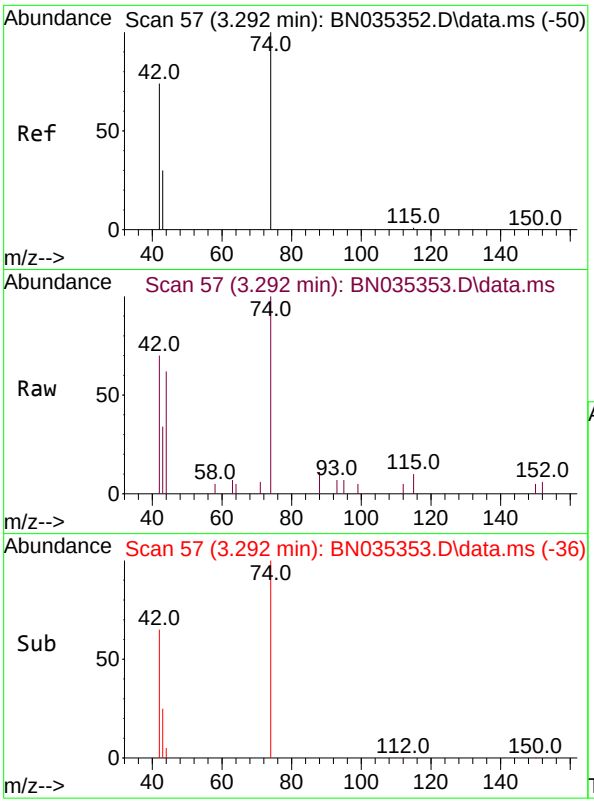


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	54.8	44.5	66.7



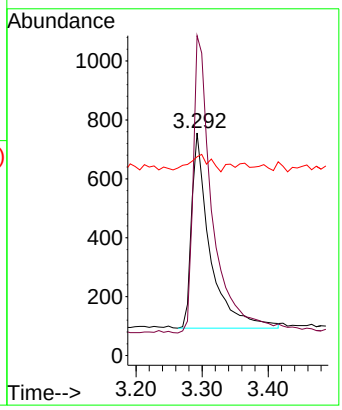


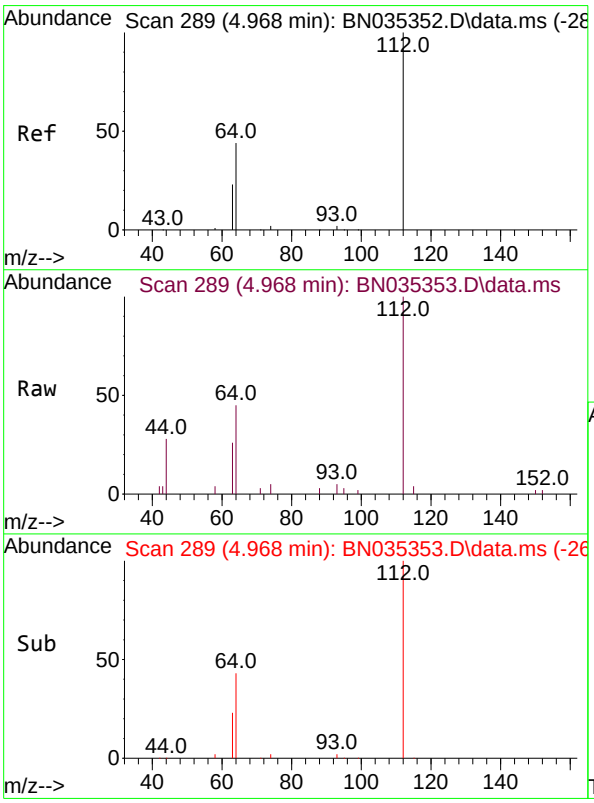
#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

Ion	Ratio	Lower	Upper
42	100		
74	158.7	124.9	187.3
44	9.8	2.2	3.4#

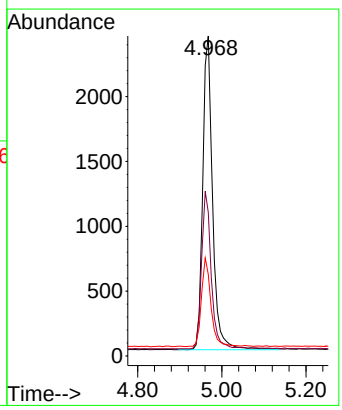


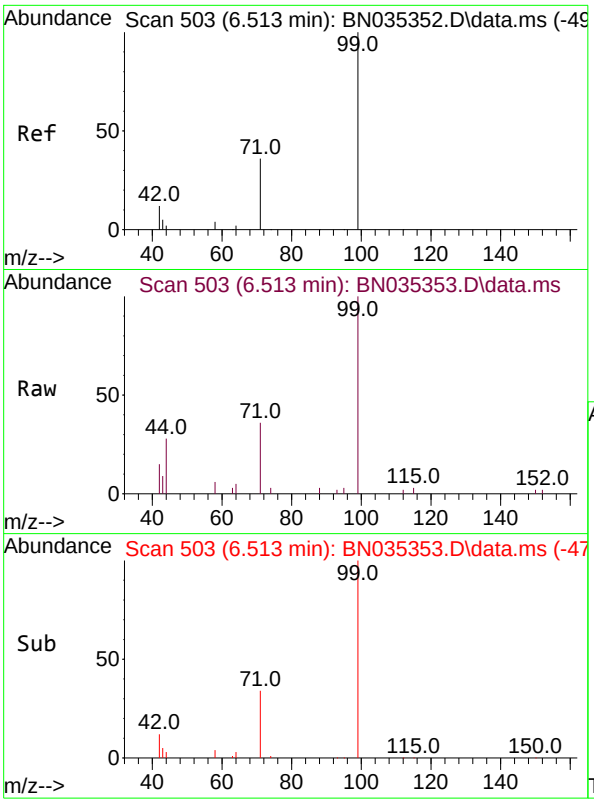


#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	27.0	21.0	31.6



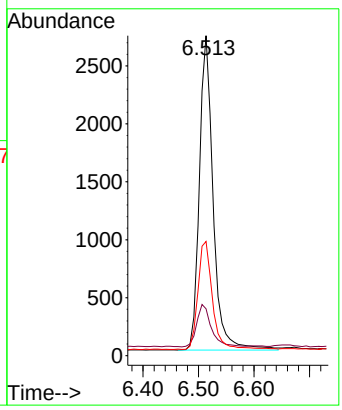


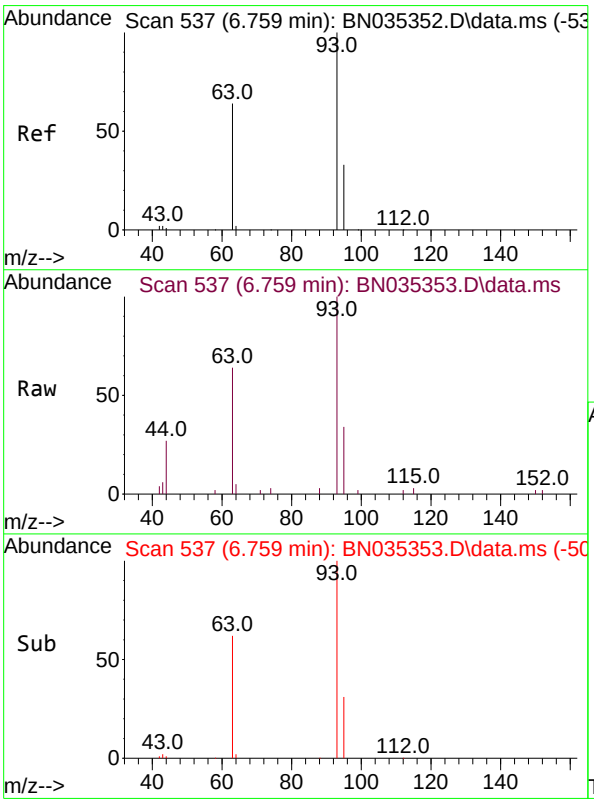
#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.1	29.3	43.9

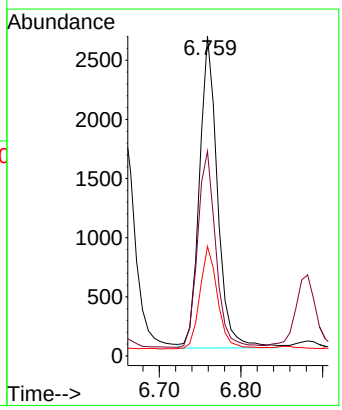


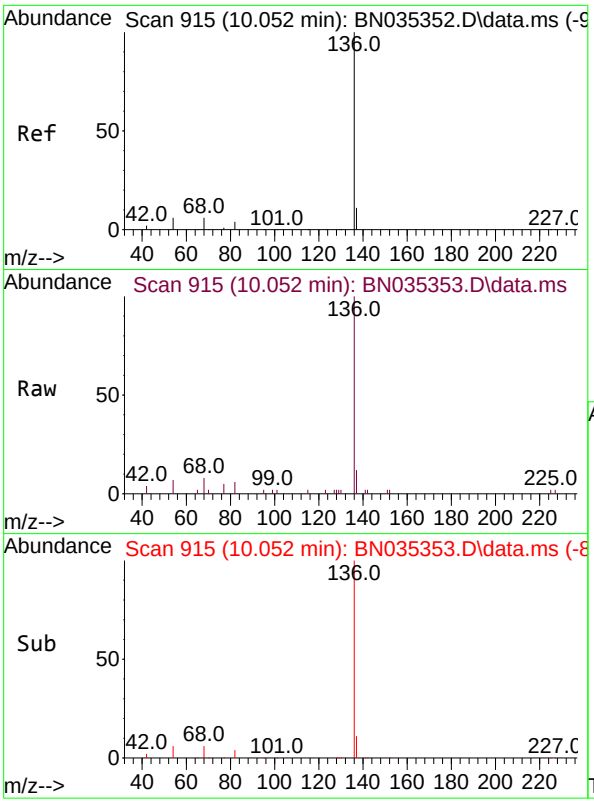


#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	32.4	25.7	38.5



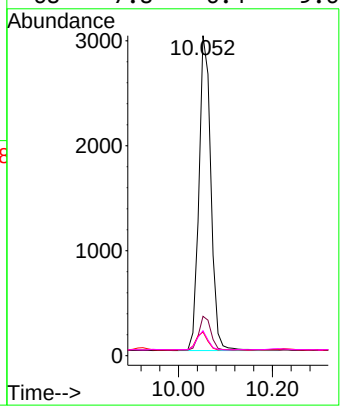


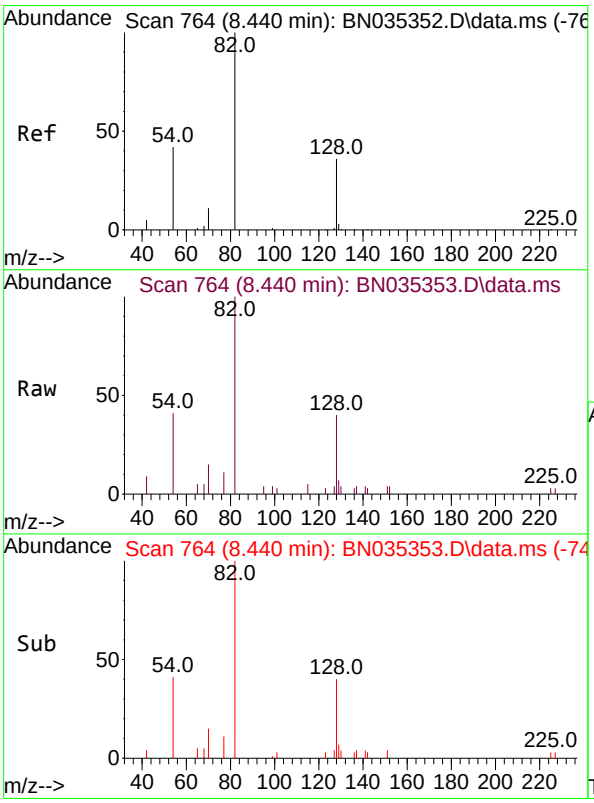
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5308

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	7.4	6.1	9.1
68	7.8	6.4	9.6

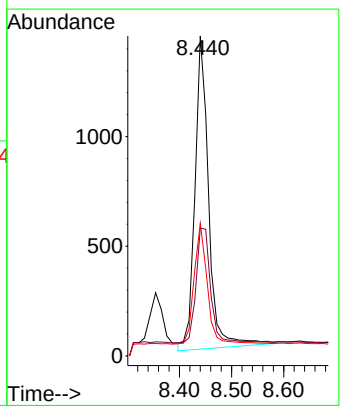


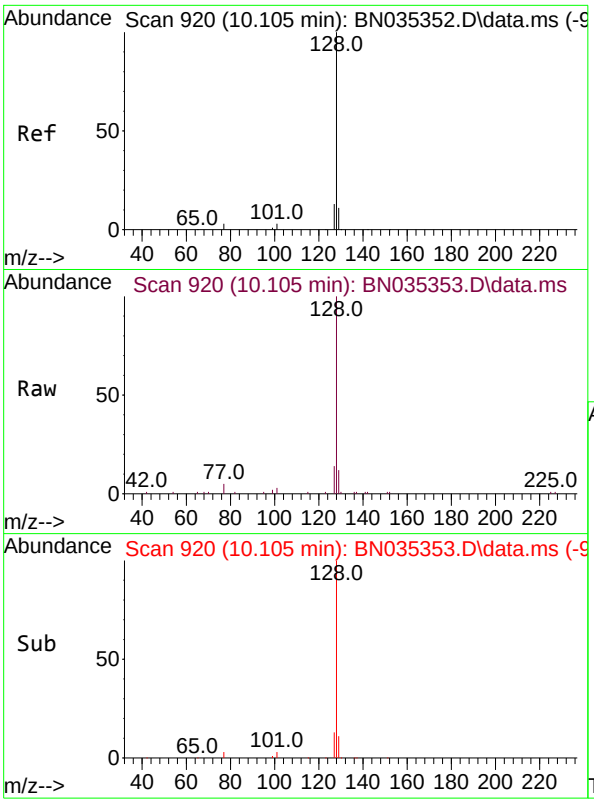


#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

Ion	Ratio	Lower	Upper
82	100		
128	40.0	33.4	50.0
54	41.5	36.7	55.1



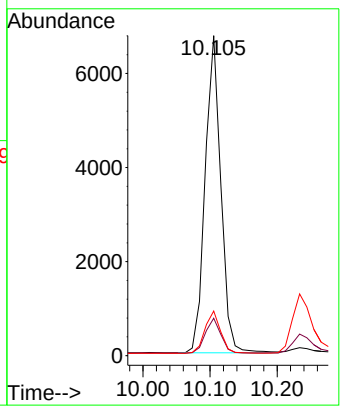


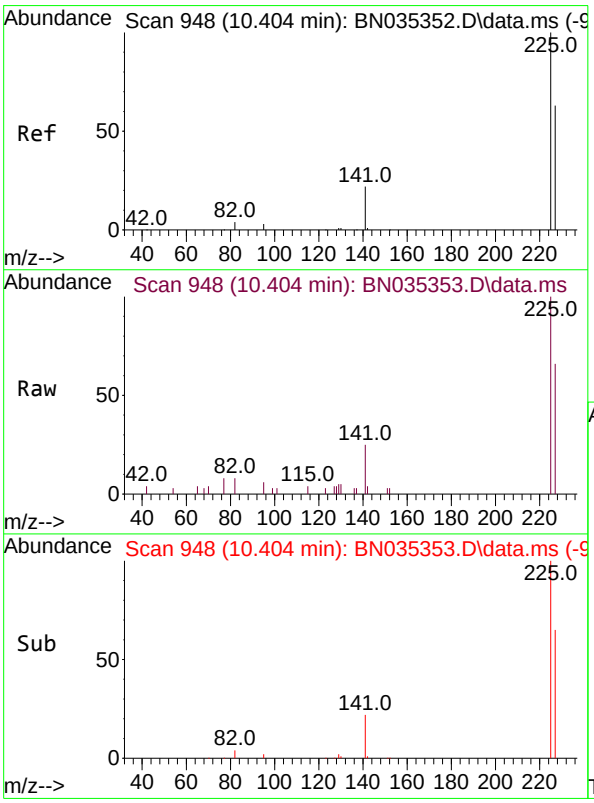
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 10954

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.9	11.4	17.2

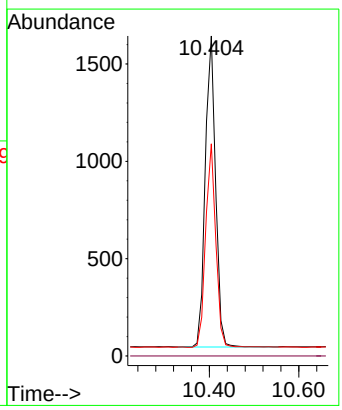


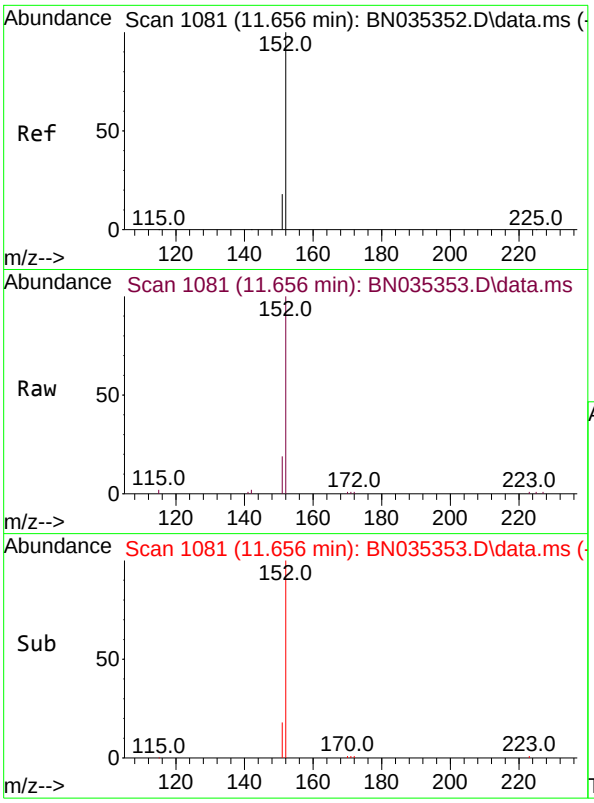


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



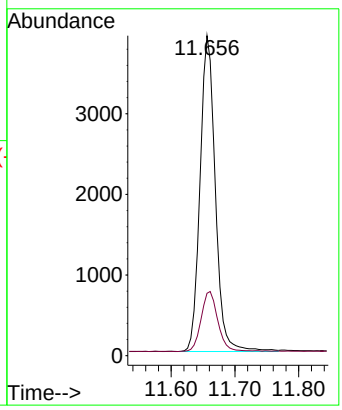


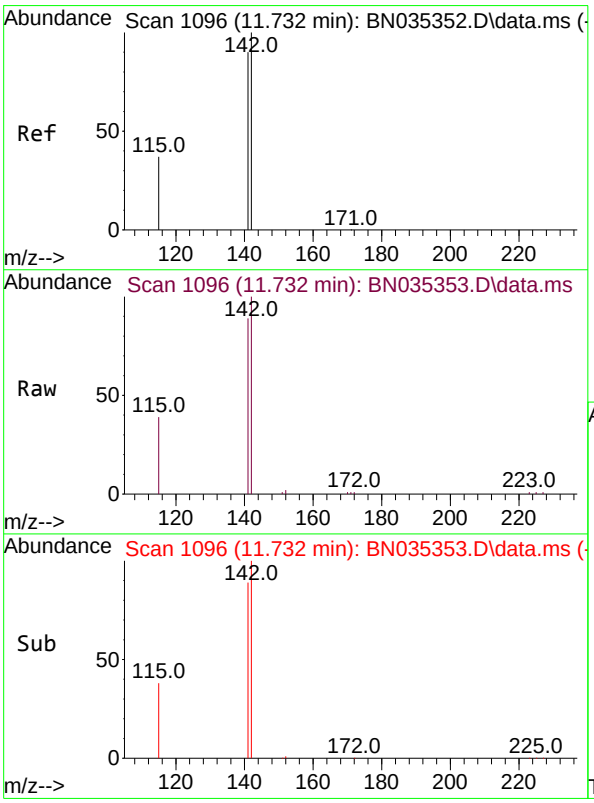
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

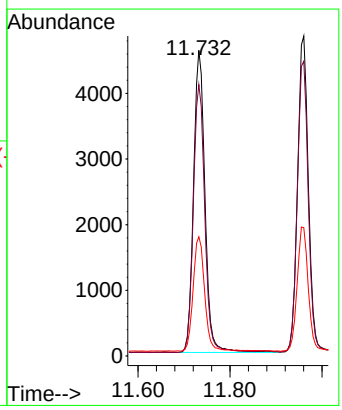


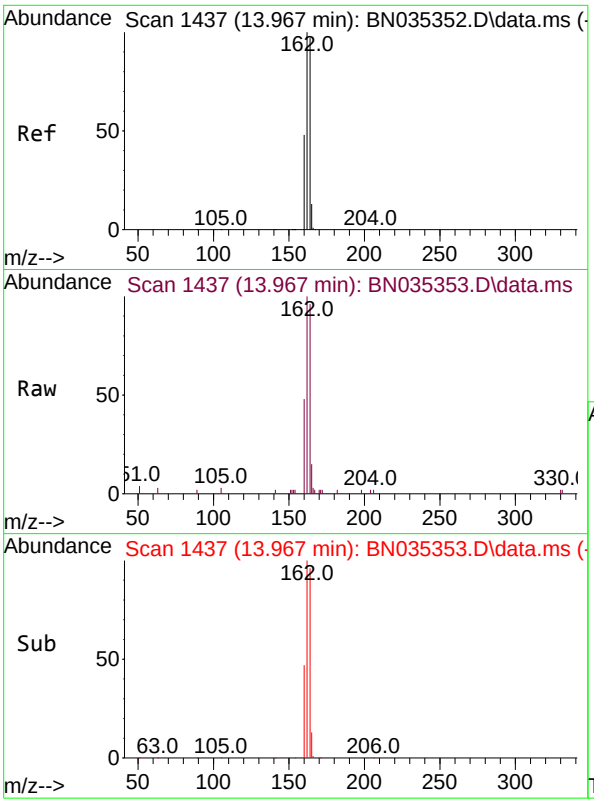


#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	39.0	31.4	47.0



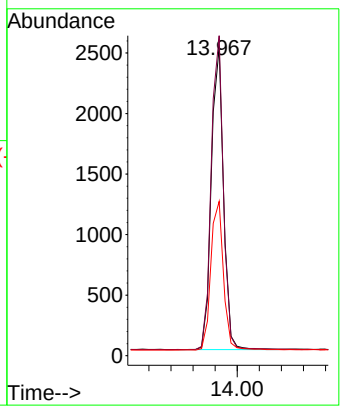


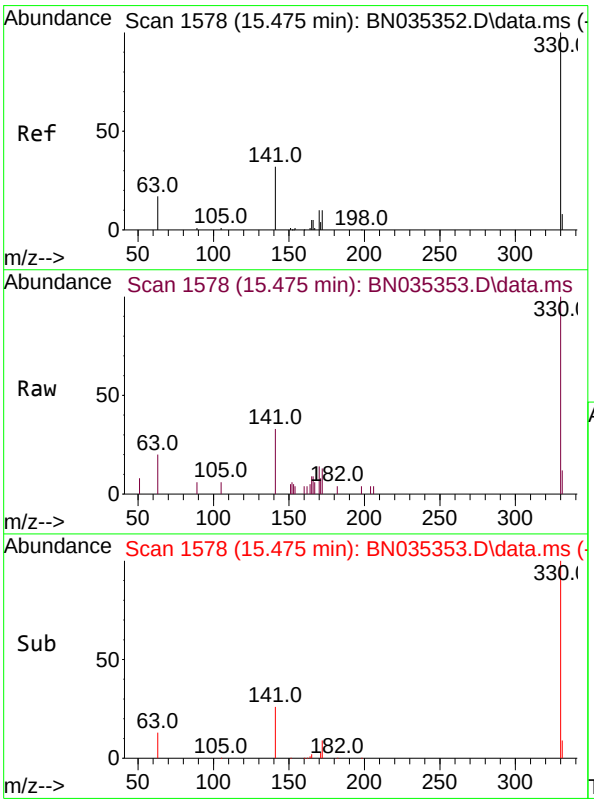
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3823

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.1	40.1	60.1

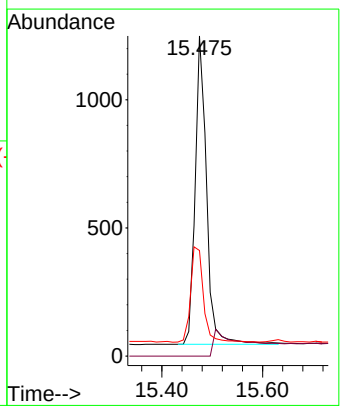


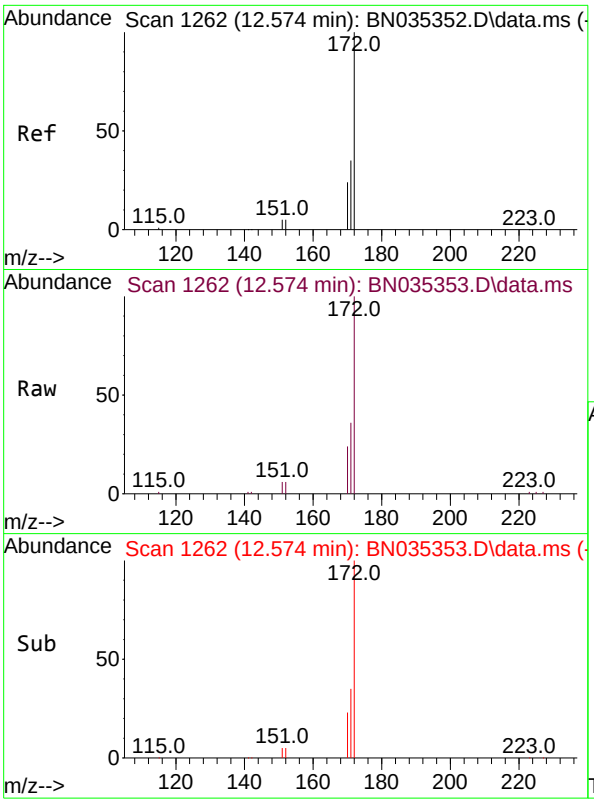


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



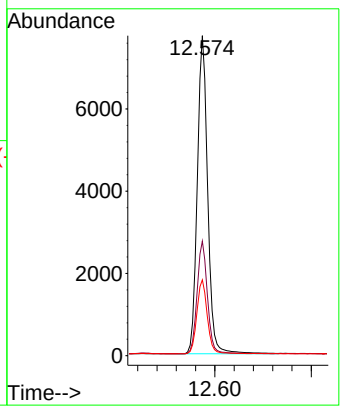


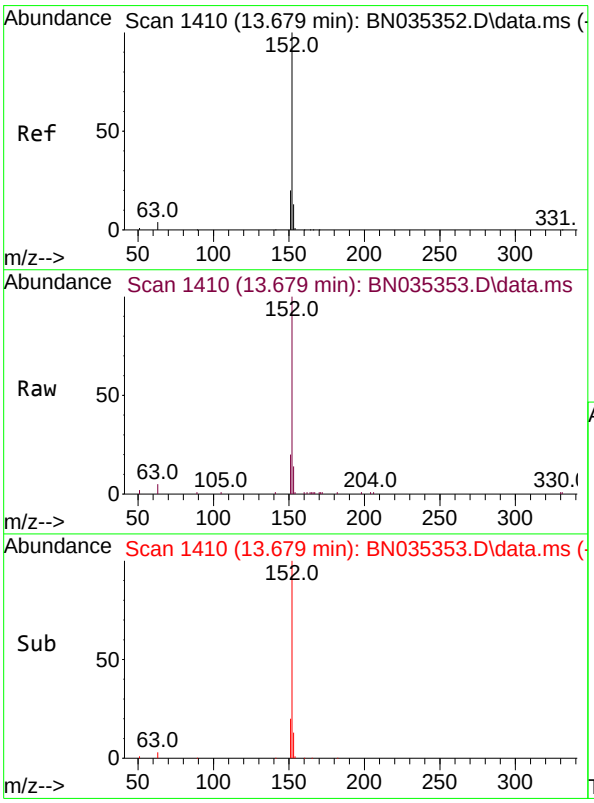
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 11528

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.7	19.8	29.8

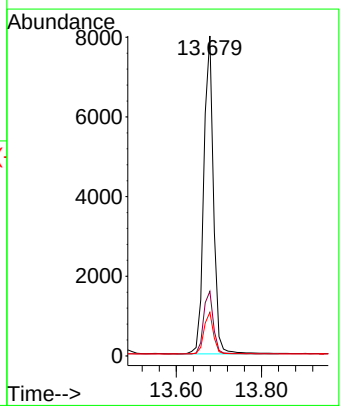


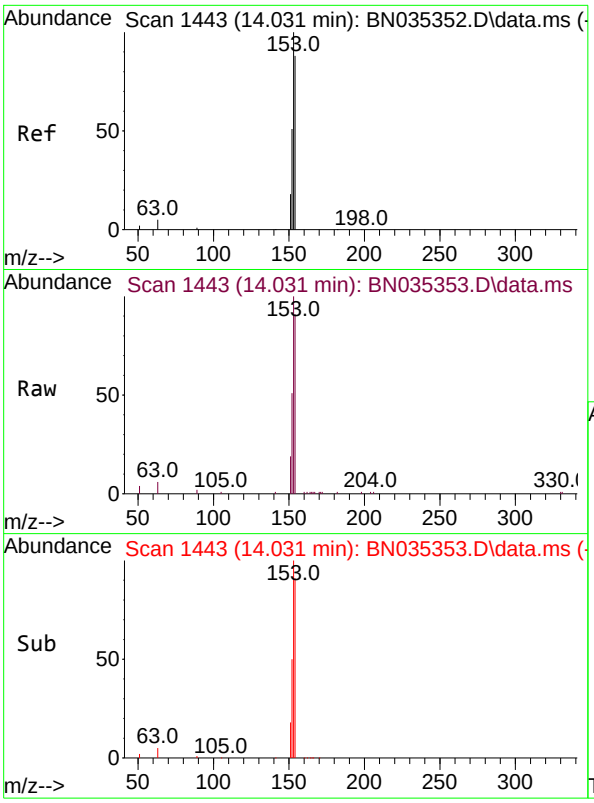


#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	12.9	10.4	15.6



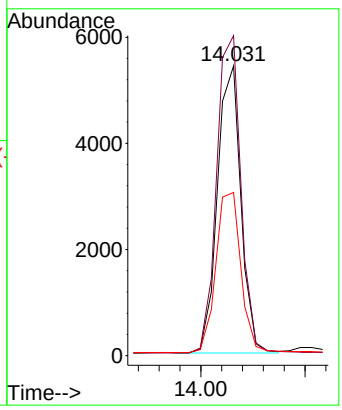


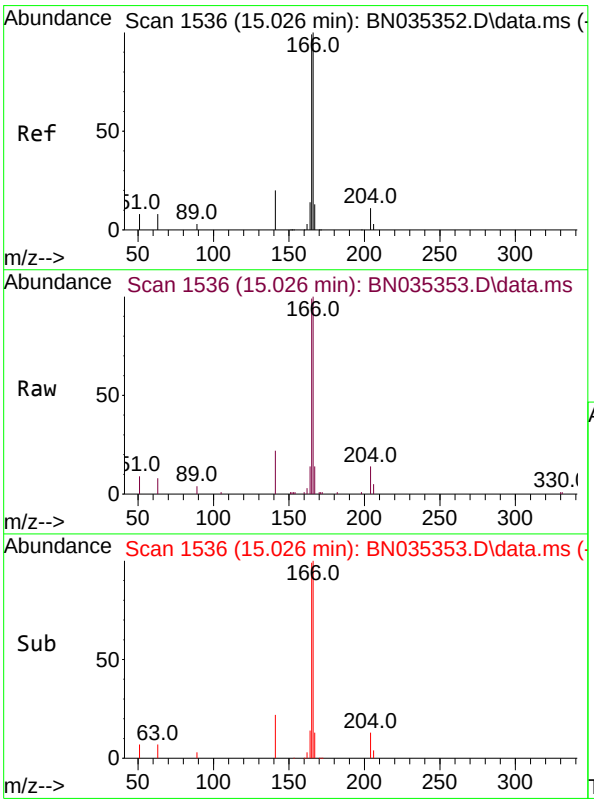
#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8470

Ion	Ratio	Lower	Upper
154	100		
153	114.8	92.6	139.0
152	60.2	49.0	73.6

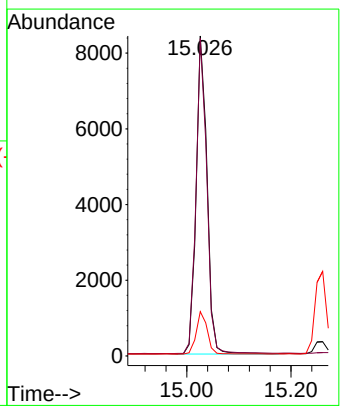


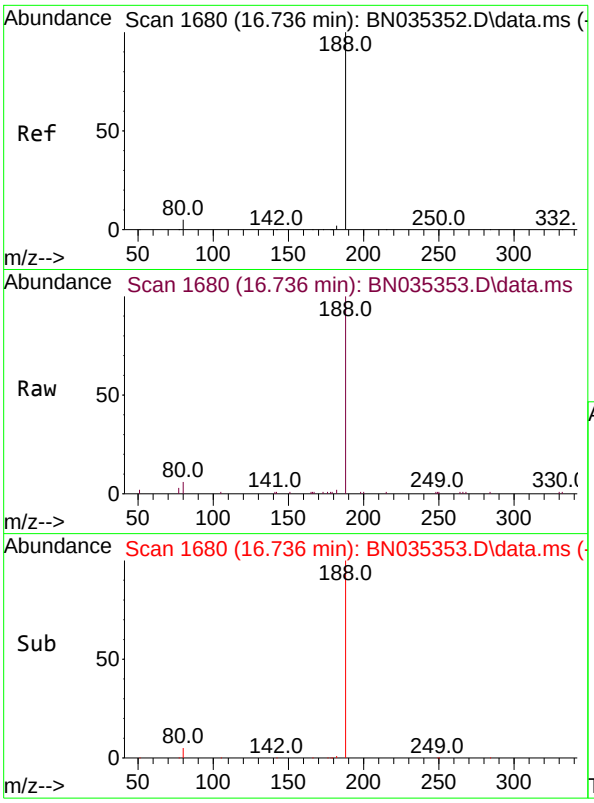


#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.5	10.8	16.2



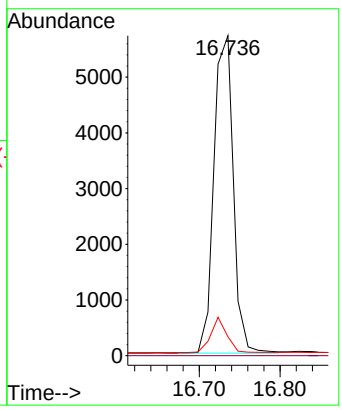


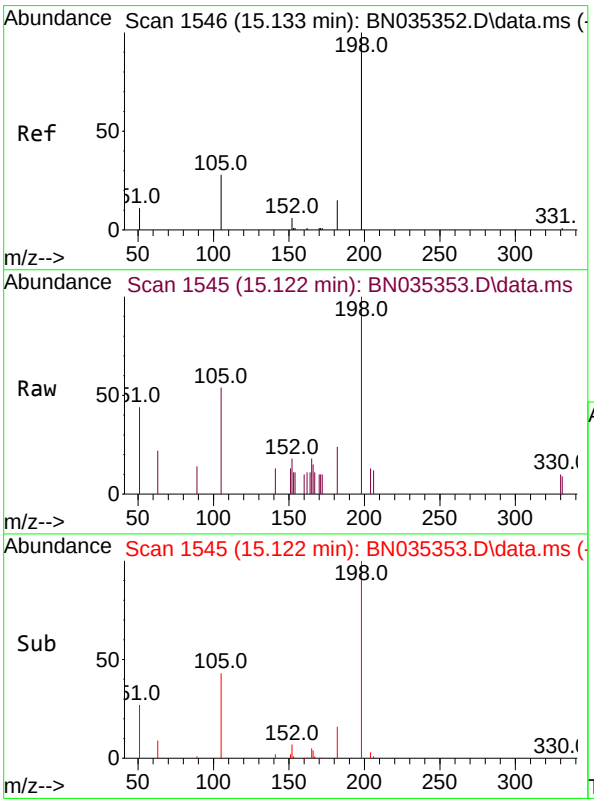
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 9525

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	4.6	6.8

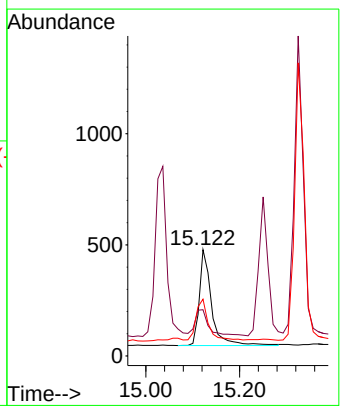


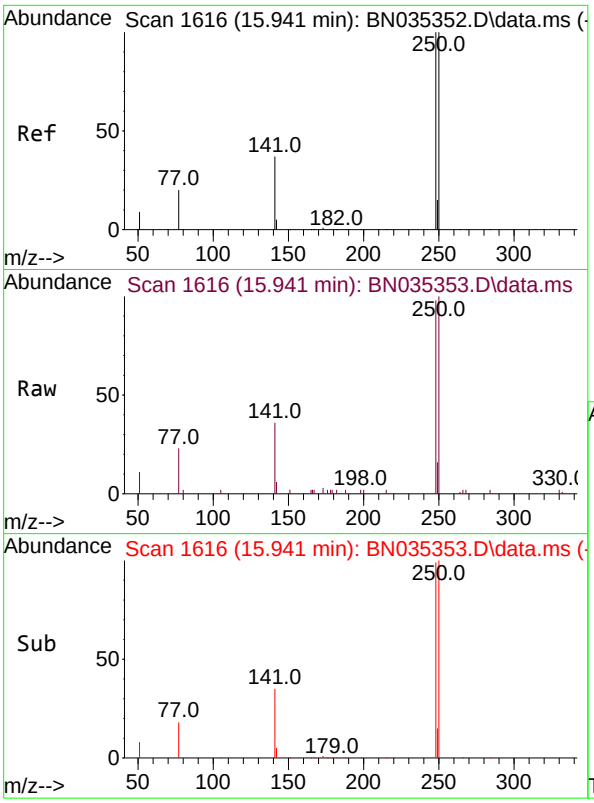


#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

Ion	Ratio	Lower	Upper
198	100		
51	43.5	46.5	69.7#
105	53.6	45.3	67.9



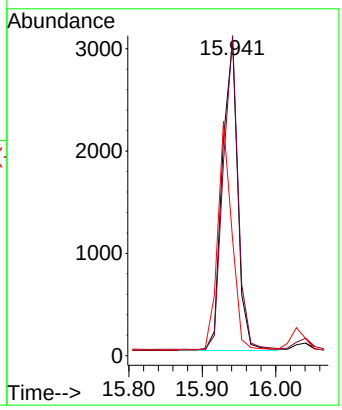


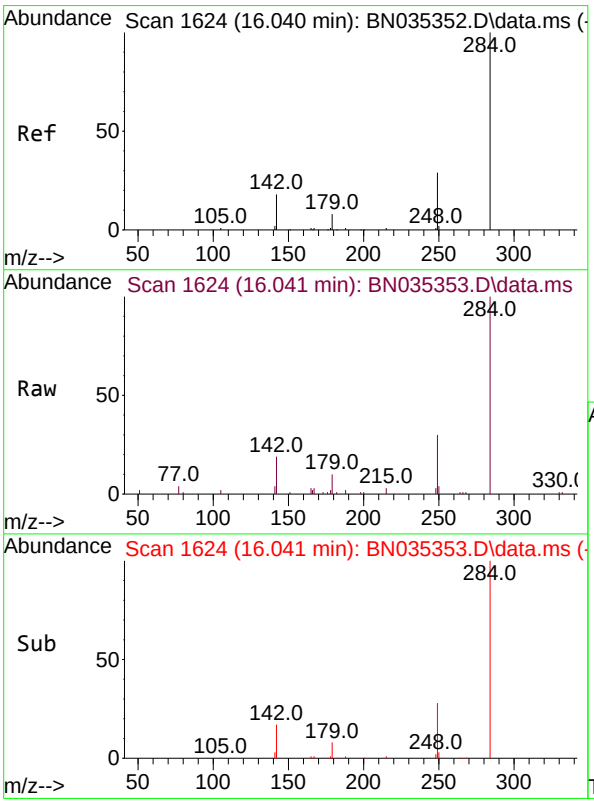
#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 4440

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	36.9	31.5	47.3

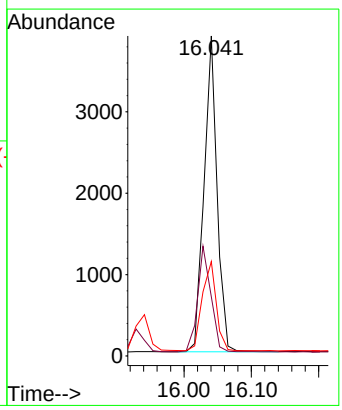


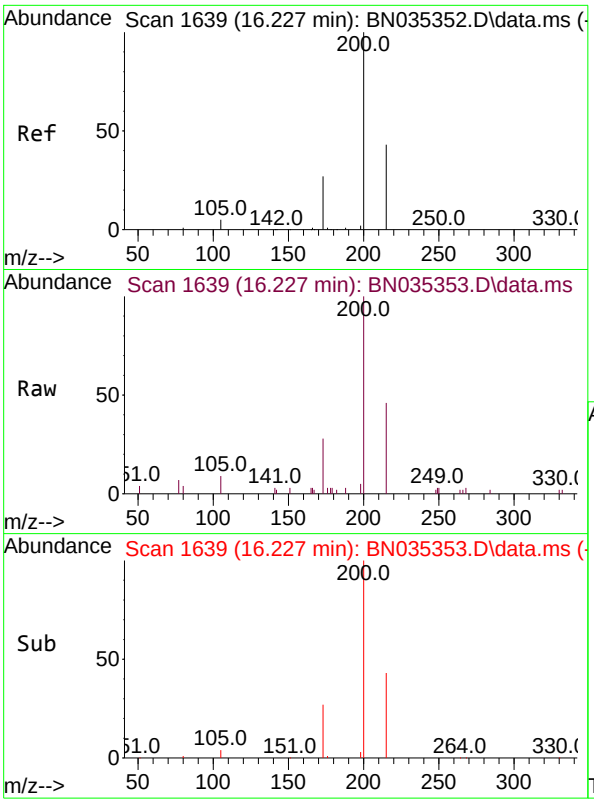


#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

Ion	Ratio	Lower	Upper
284	100		
142	34.0	26.7	40.1
249	30.3	24.6	36.8



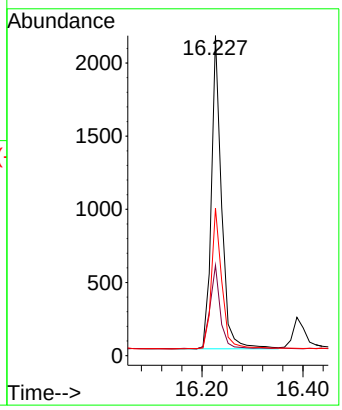


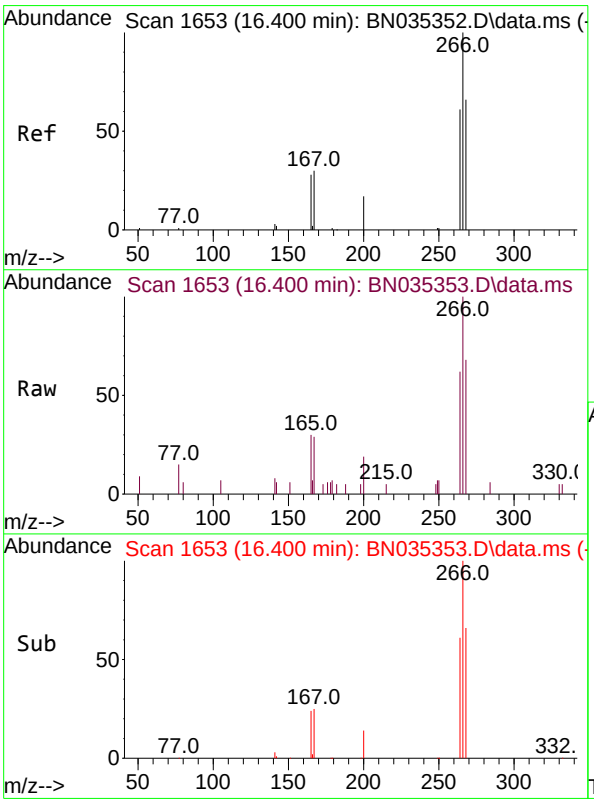
#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2978

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	46.1	36.9	55.3

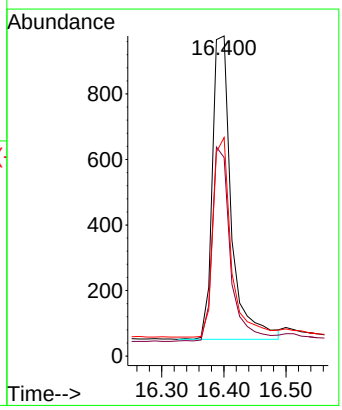


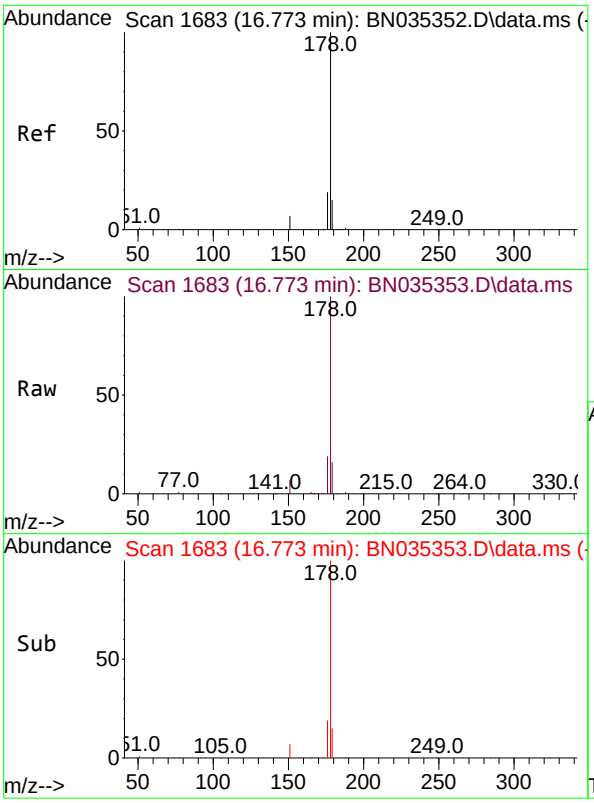


#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

Ion	Ratio	Lower	Upper
266	100		
264	61.9	42.3	63.5
268	63.7	43.3	64.9



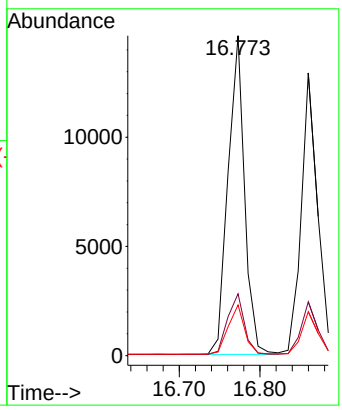


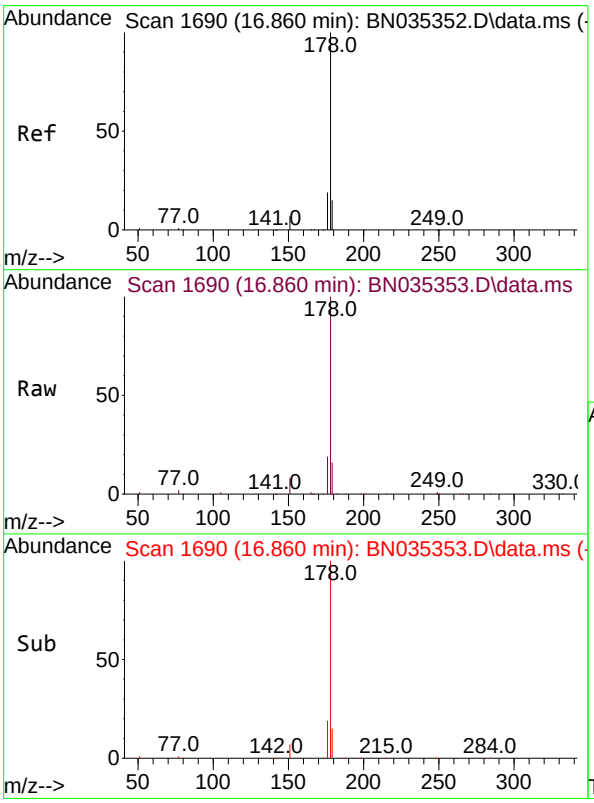
#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 20803

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.4	12.3	18.5

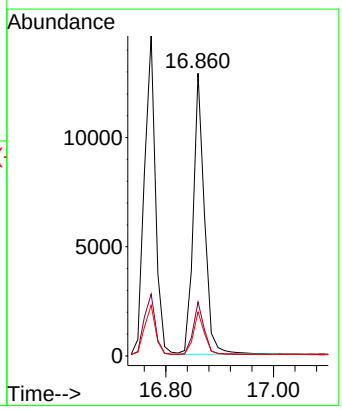


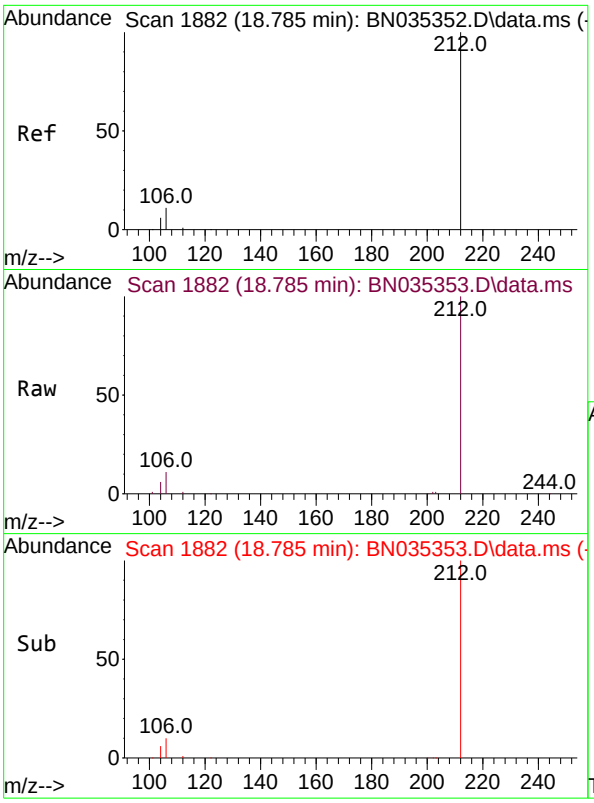


#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.6	18.8



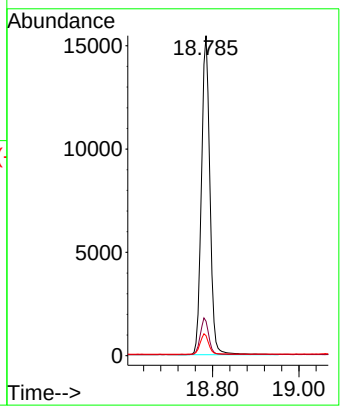


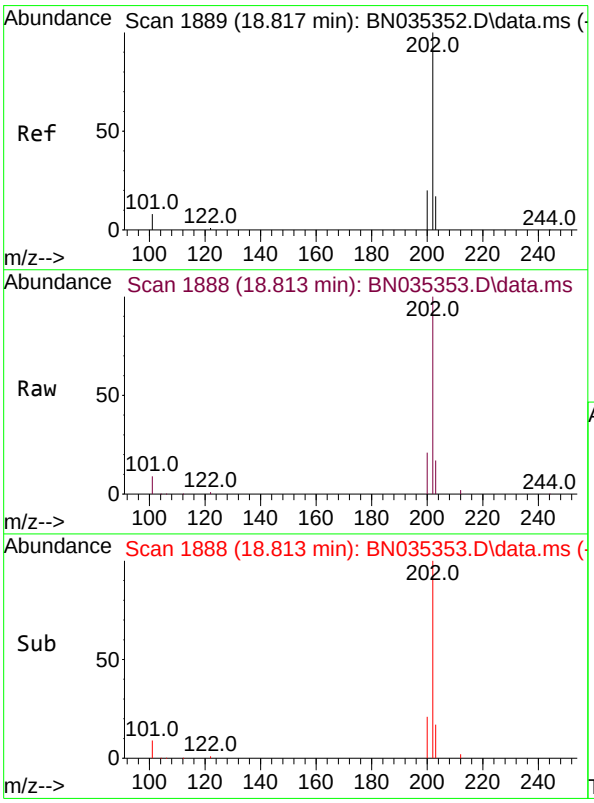
#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 21050

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

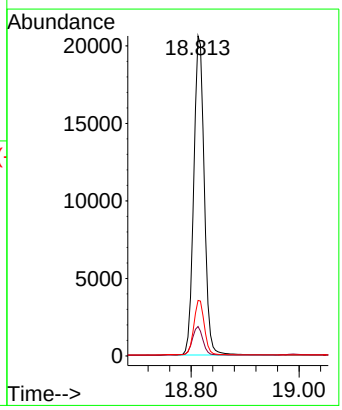


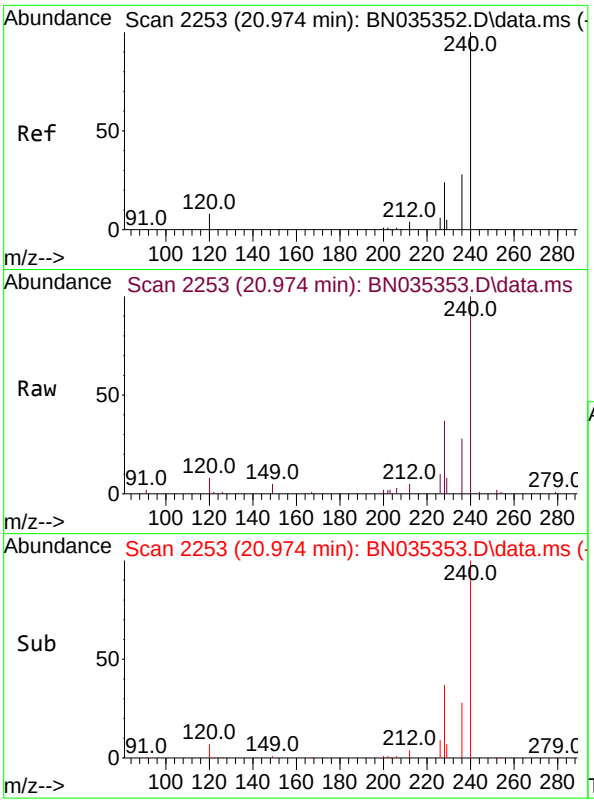


#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



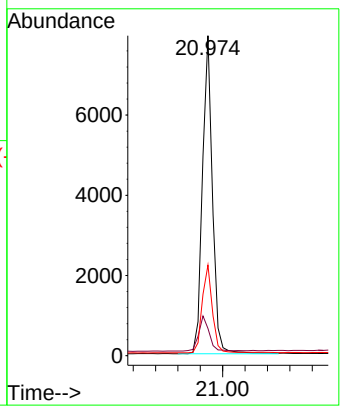


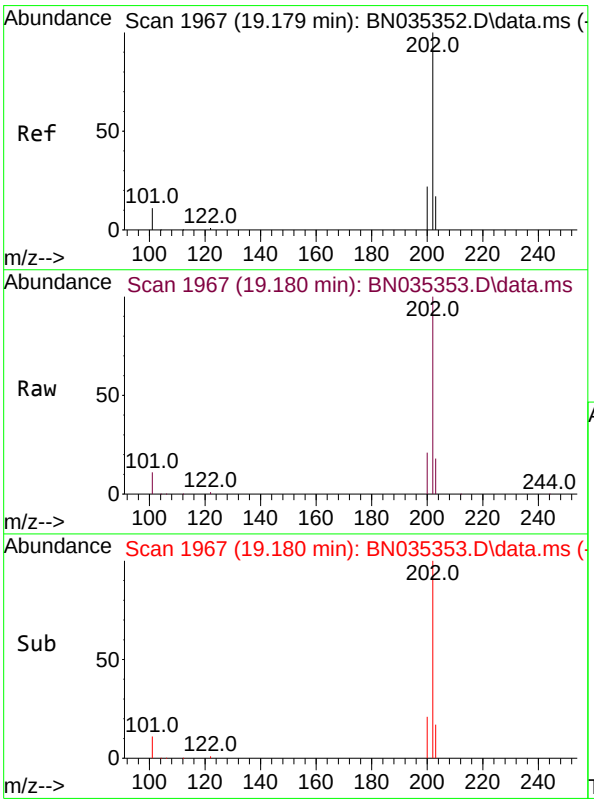
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9837

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.9	11.9
236	28.3	22.9	34.3

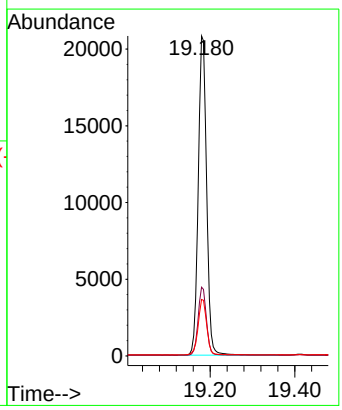


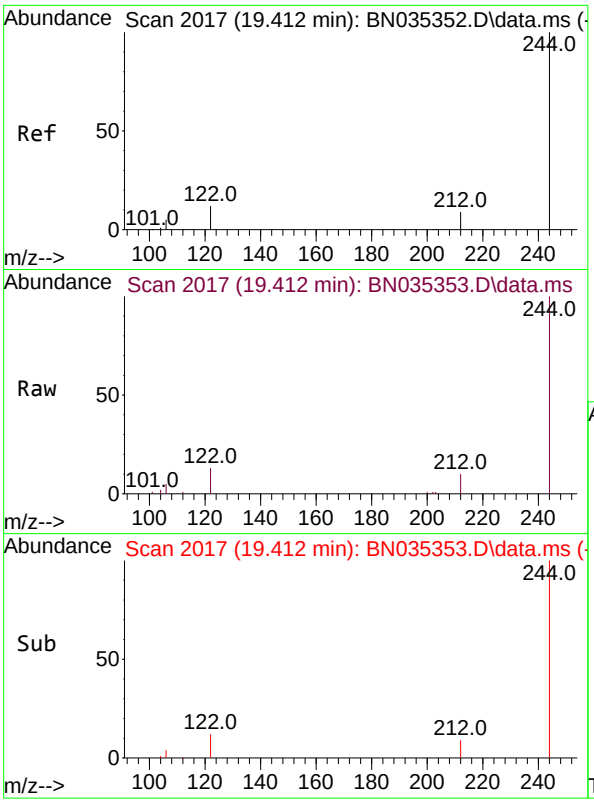


#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.8	14.3	21.5



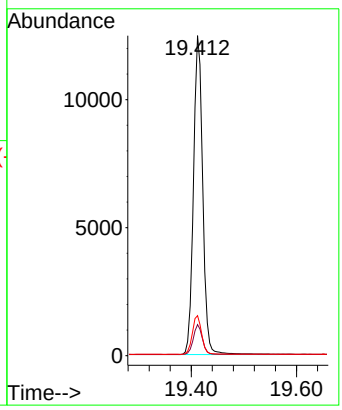


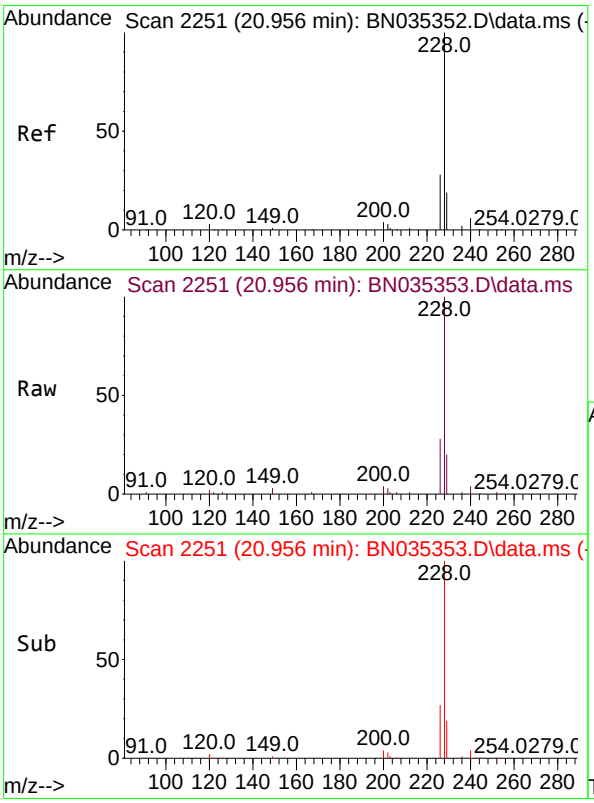
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 15171

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	12.5	10.3	15.5

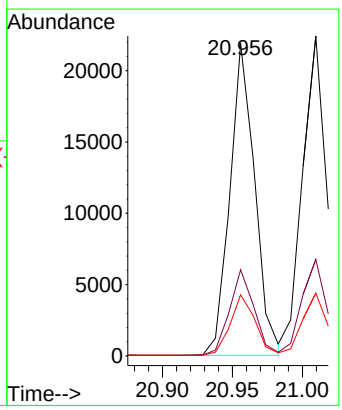


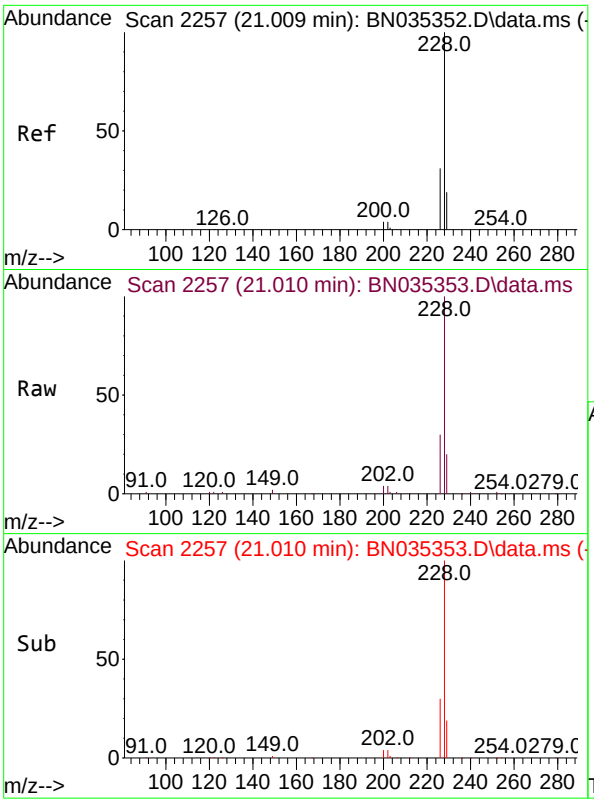


#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.5	15.8	23.8



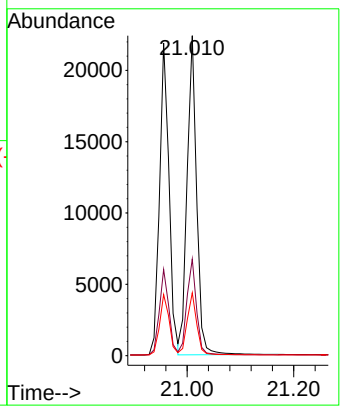


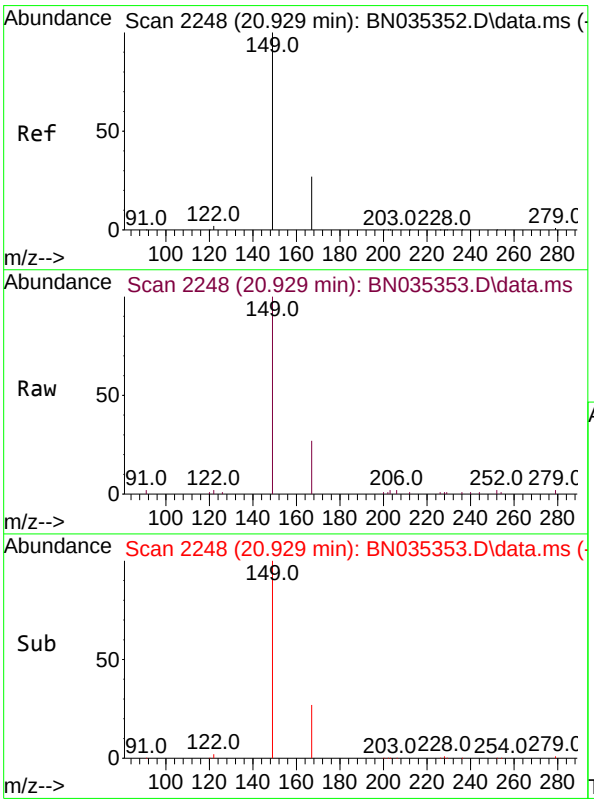
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 27838

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.6	15.9	23.9

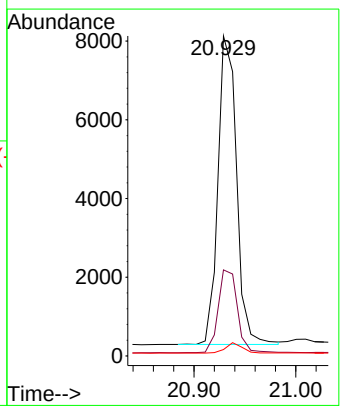


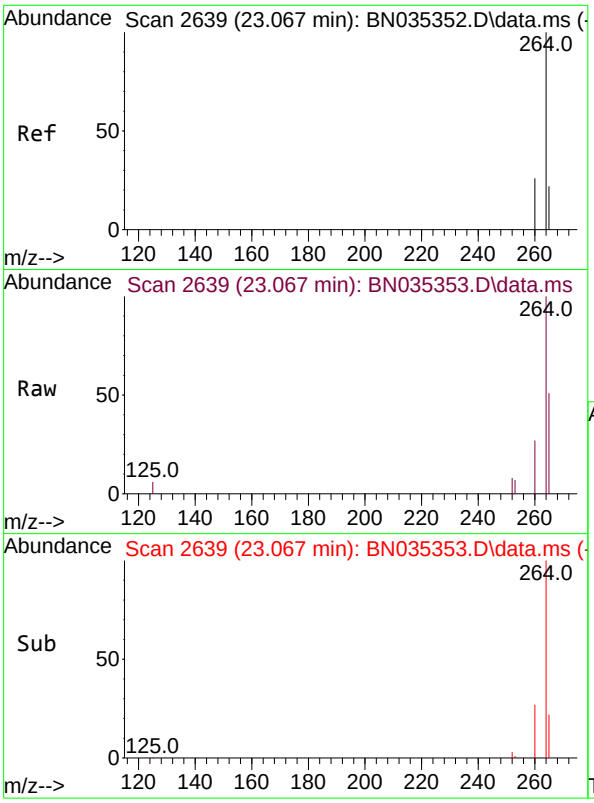


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.0	2.7	4.1



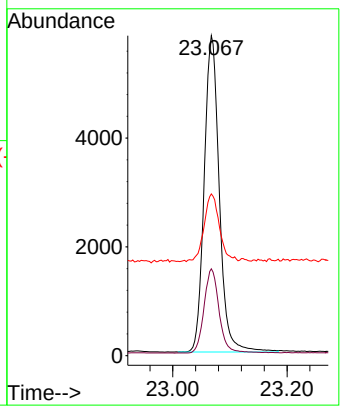


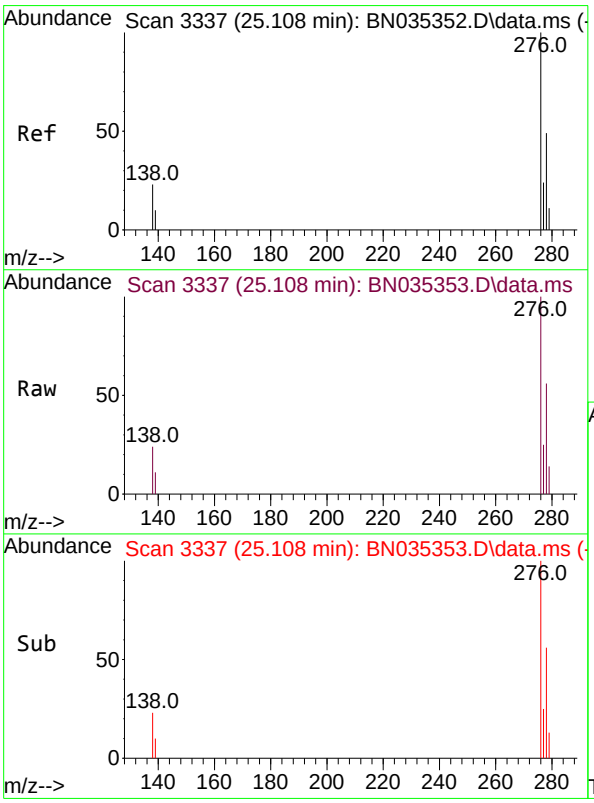
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 10698

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.6	40.2	60.4

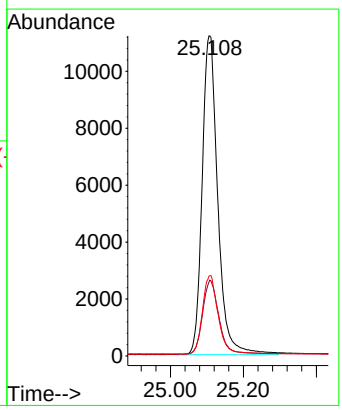


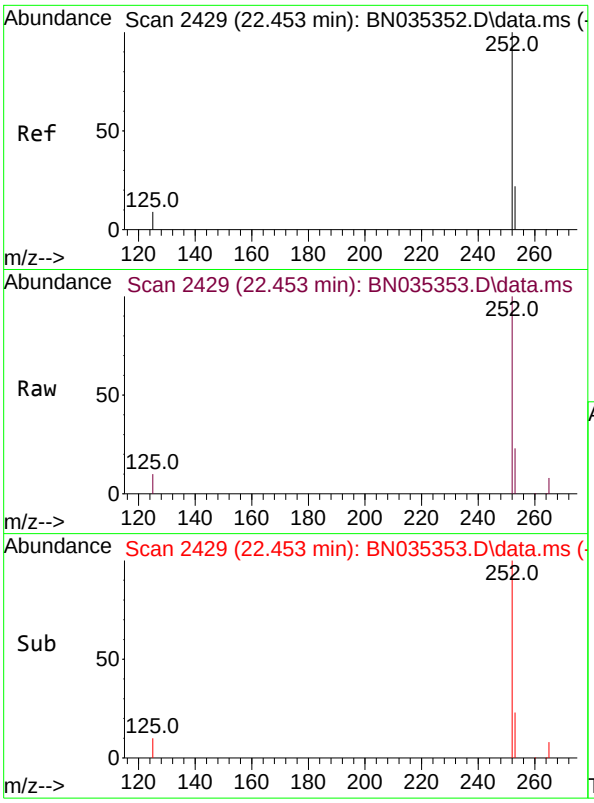


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.7	19.8	29.6



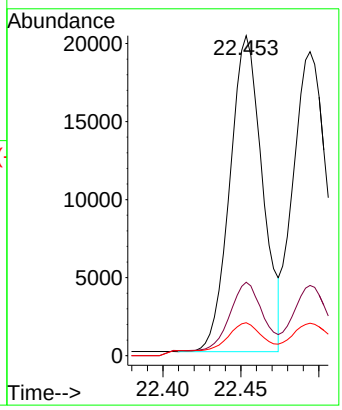


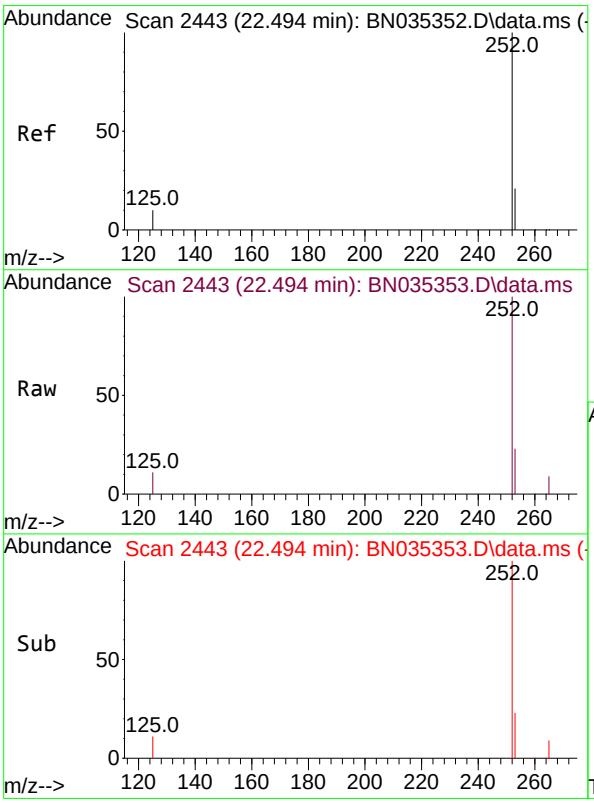
#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 29491

Ion	Ratio	Lower	Upper
252	100		
253	22.9	19.6	29.4
125	10.3	9.6	14.4

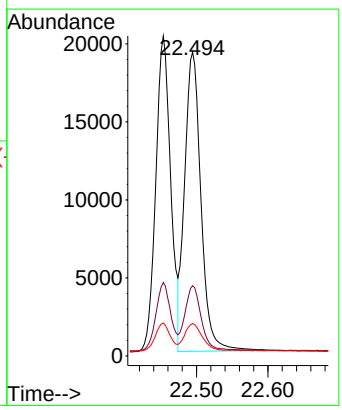


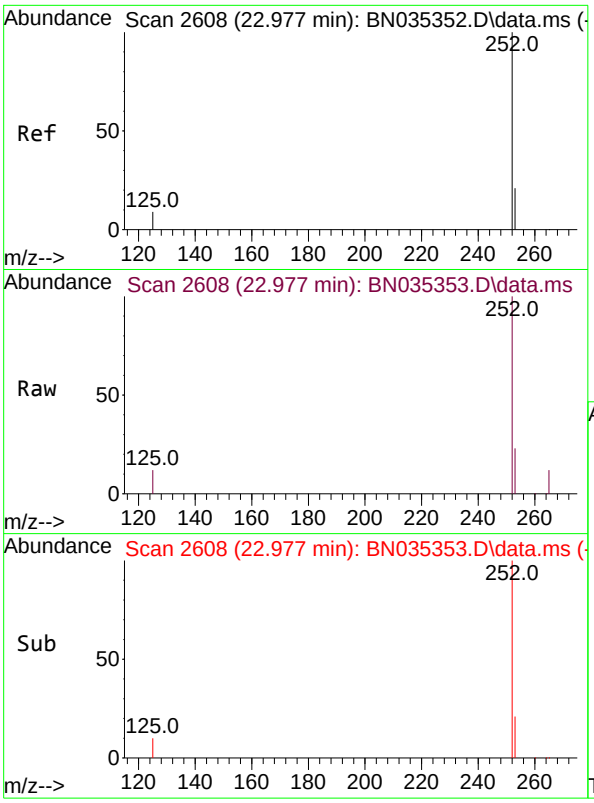


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

Ion	Ratio	Lower	Upper
252	100		
253	23.1	19.5	29.3
125	10.7	10.2	15.4



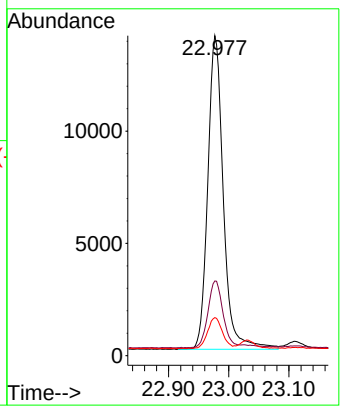


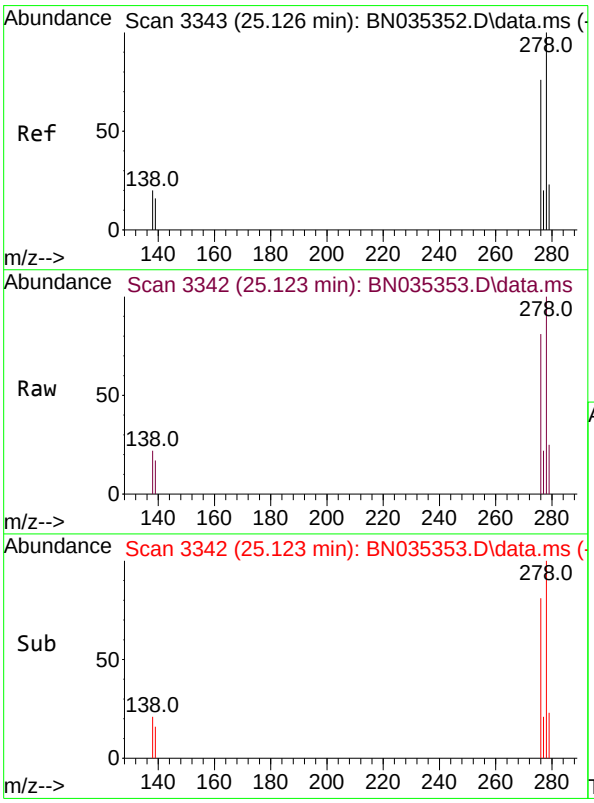
#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 25053

Ion	Ratio	Lower	Upper
252	100		
253	23.3	20.2	30.4
125	11.9	10.9	16.3

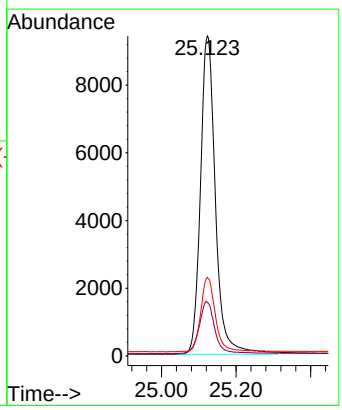


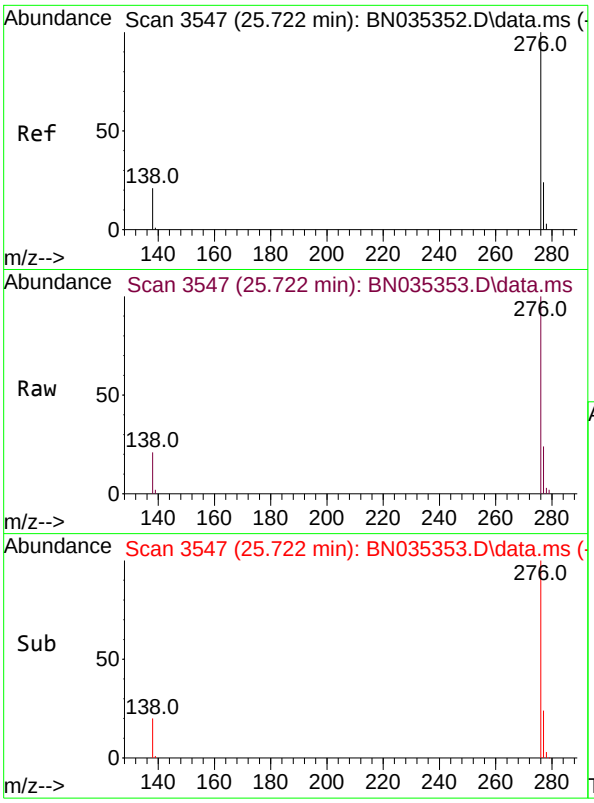


#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.2	21.4
279	24.6	20.5	30.7



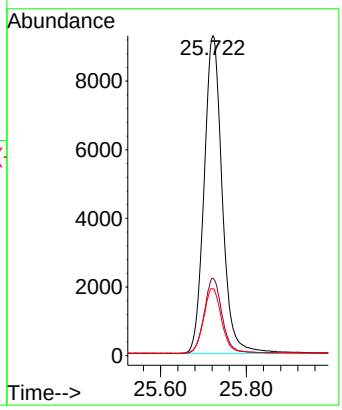


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 27143

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.9	29.9
138	20.8	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	9905	0.400	ng		0.00
35) Perylene-d12	23.067	264	10469	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	8194	1.572	ng		0.00
5) Phenol-d6	6.513	99	10139	1.552	ng		0.00
8) Nitrobenzene-d5	8.440	82	5450	1.179	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	13988	1.478	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	4615	1.623	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	24687	1.542	ng		0.00
27) Fluoranthene-d10	18.785	212	44338	1.521	ng		0.00
31) Terphenyl-d14	19.412	244	32174	1.548	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	3220	1.727	ng		99
3) n-Nitrosodimethylamine	3.292	42	2729	1.570	ng	#	97
6) bis(2-Chloroethyl)ether	6.759	93	8629	1.759	ng		100
9) Naphthalene	10.105	128	23280	1.680	ng		98
10) Hexachlorobutadiene	10.404	225	5409	1.331	ng	#	100
12) 2-Methylnaphthalene	11.732	142	16881	1.651	ng		98
16) Acenaphthylene	13.679	152	27389	1.626	ng		99
17) Acenaphthene	14.032	154	18061	1.636	ng		99
18) Fluorene	15.026	166	26044	1.604	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	1947	0.983	ng	#	69
21) 4-Bromophenyl-phenylether	15.941	248	9493	1.566	ng		96
22) Hexachlorobenzene	16.041	284	10969	1.743	ng		100
23) Atrazine	16.227	200	6644	1.221	ng		96
24) Pentachlorophenol	16.388	266	4618	1.571	ng	#	85
25) Phenanthrene	16.773	178	43698	1.745	ng		100
26) Anthracene	16.860	178	39964	1.737	ng		99
28) Fluoranthene	18.813	202	58605	1.702	ng		100
30) Pyrene	19.180	202	60164	1.824	ng		100
32) Benzo(a)anthracene	20.956	228	57498	1.667	ng		100
33) Chrysene	21.010	228	58919	1.725	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	20598	1.138	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	69517	1.665	ng		99
37) Benzo(b)fluoranthene	22.454	252	76506	2.172	ng		95
38) Benzo(k)fluoranthene	22.494	252	63925	1.814	ng	#	95
39) Benzo(a)pyrene	22.977	252	52595	1.697	ng	#	94
40) Dibenzo(a,h)anthracene	25.126	278	55068	1.664	ng		96
41) Benzo(g,h,i)perylene	25.719	276	56947	1.618	ng		97

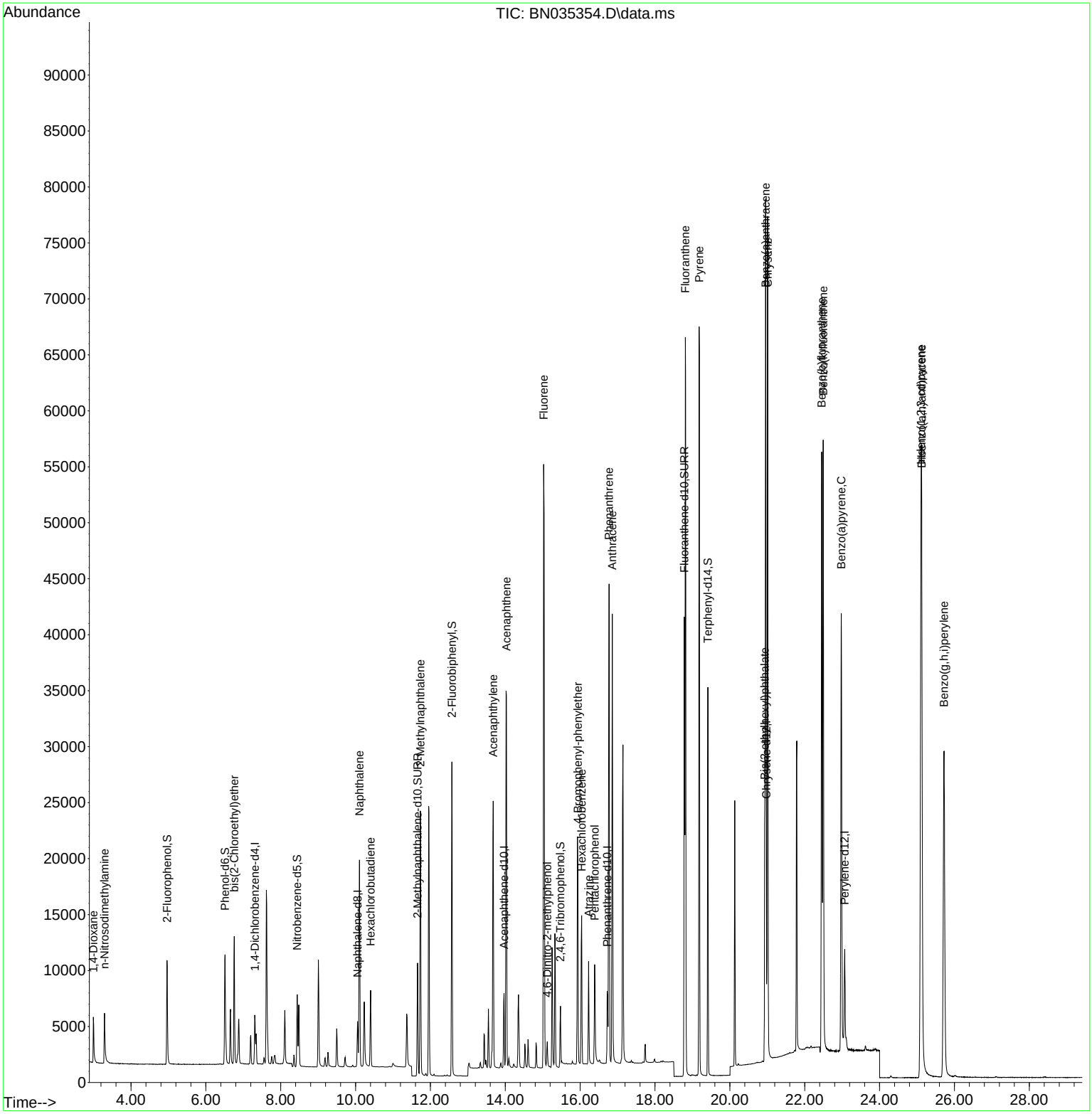
(#) = qualifier out of range (m) = manual integration (+) = signals summed

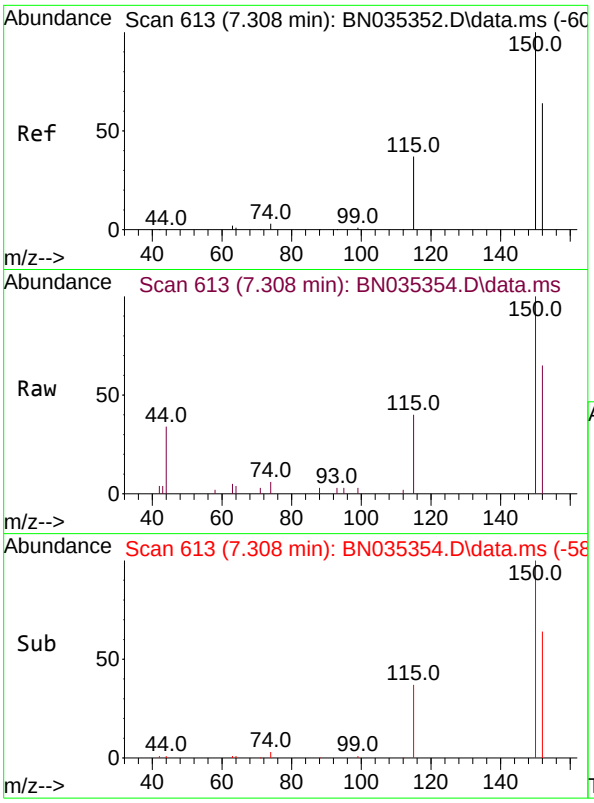
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 27 22:53:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



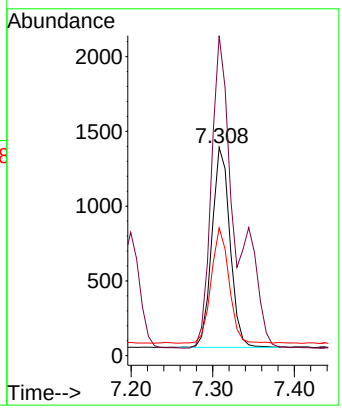


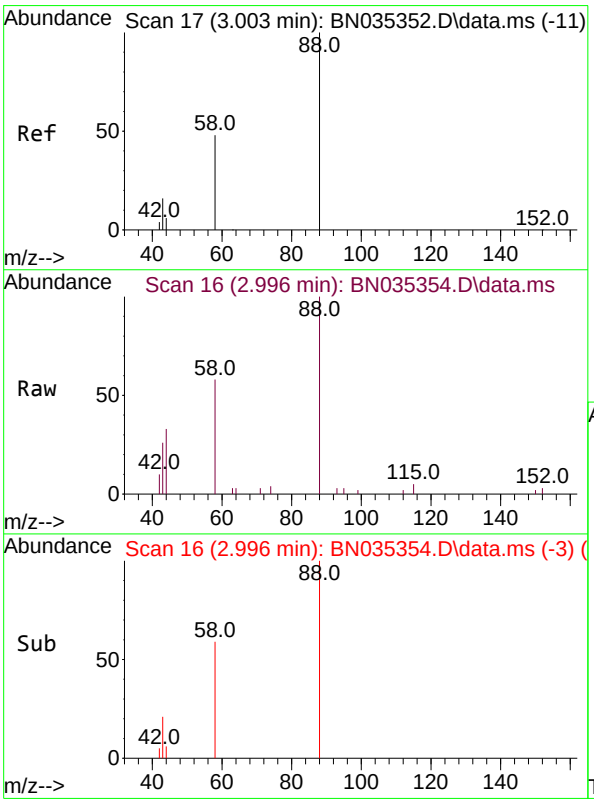
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2053

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	61.4	49.6	74.4

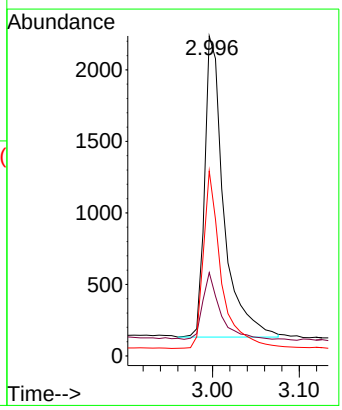


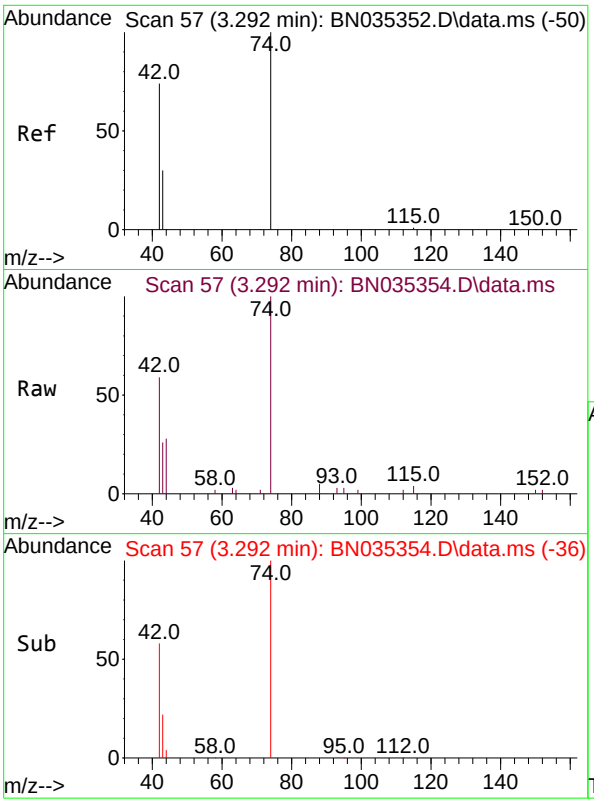


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

Ion	Ratio	Lower	Upper
88	100		
43	20.3	17.2	25.8
58	55.1	44.5	66.7



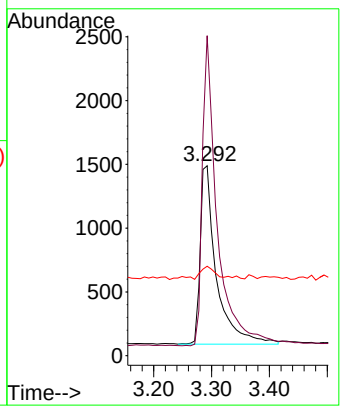


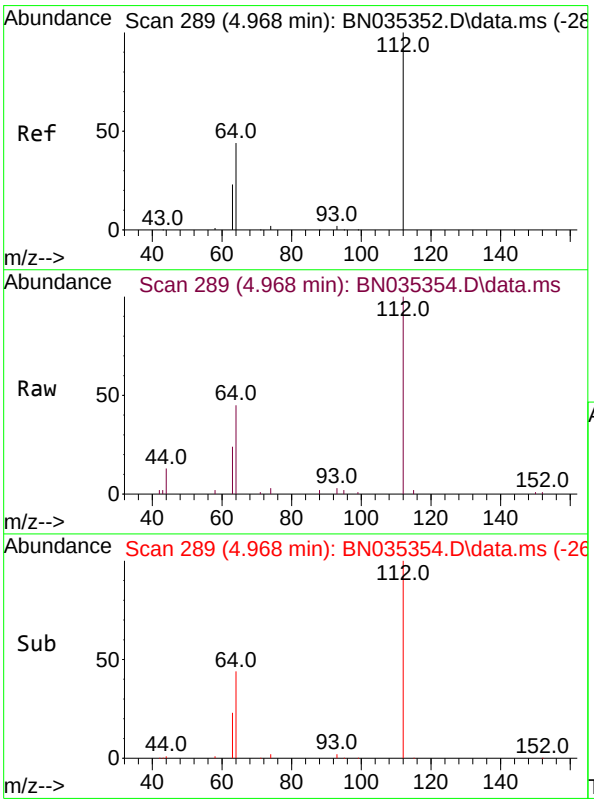
#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

Ion	Ratio	Lower	Upper
42	100		
74	160.4	124.9	187.3
44	6.2	2.2	3.4#

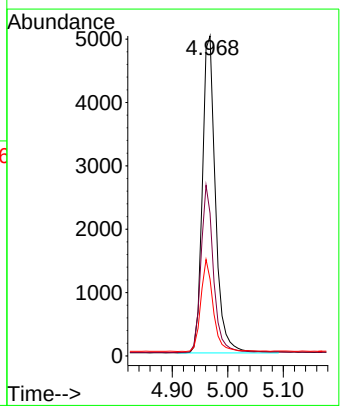


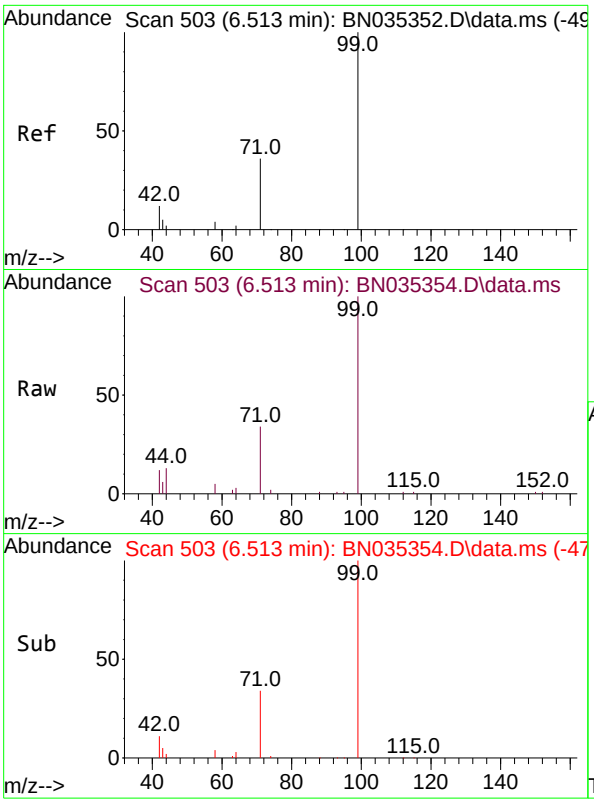


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	27.5	21.0	31.6



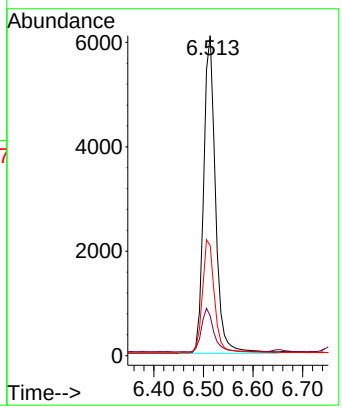


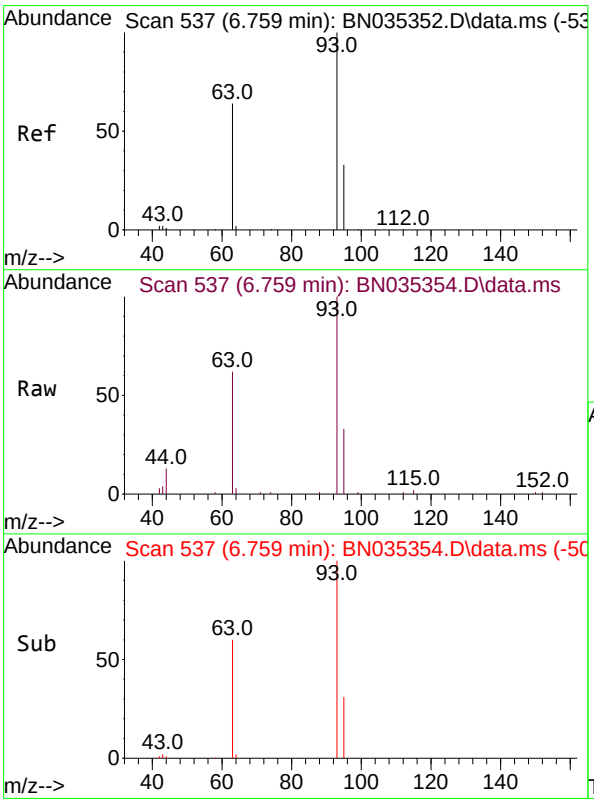
#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	36.3	29.3	43.9

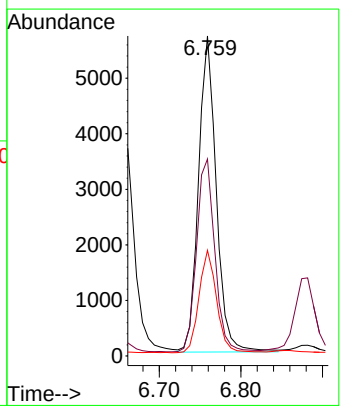


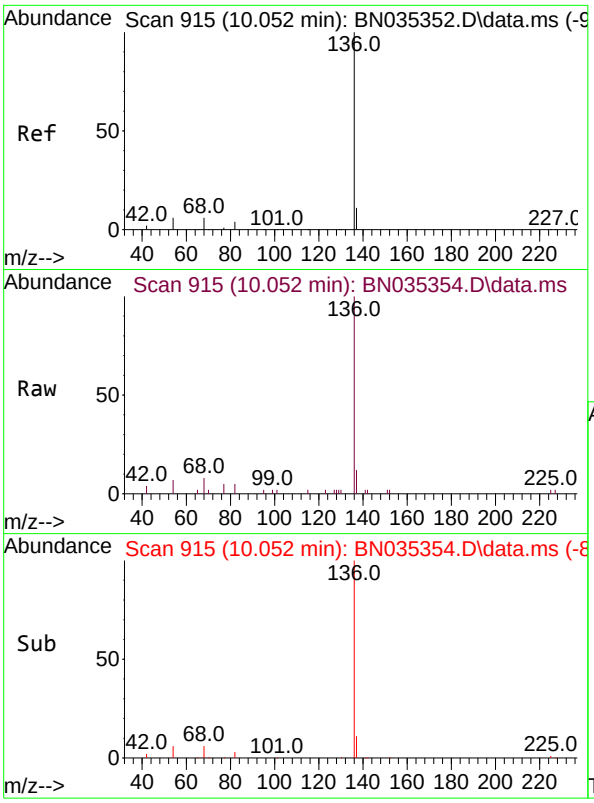


#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	32.2	25.7	38.5



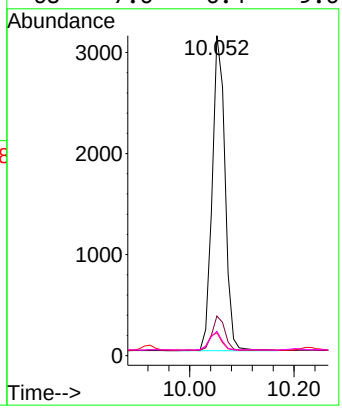


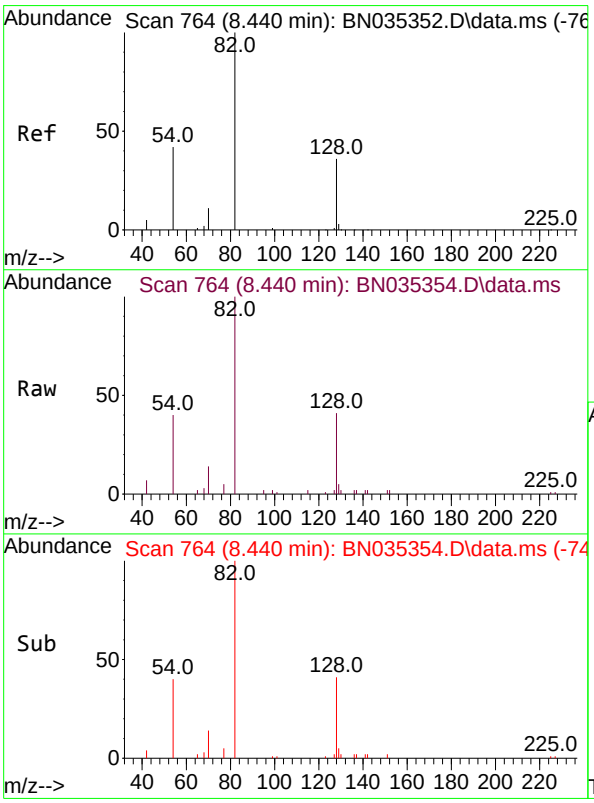
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5309

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.2	6.1	9.1
68	7.6	6.4	9.6

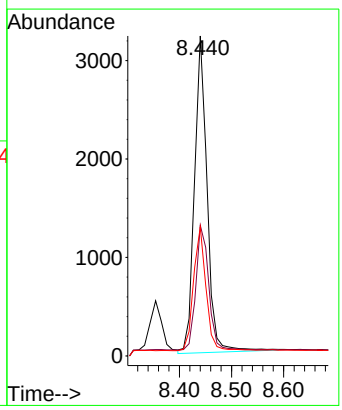


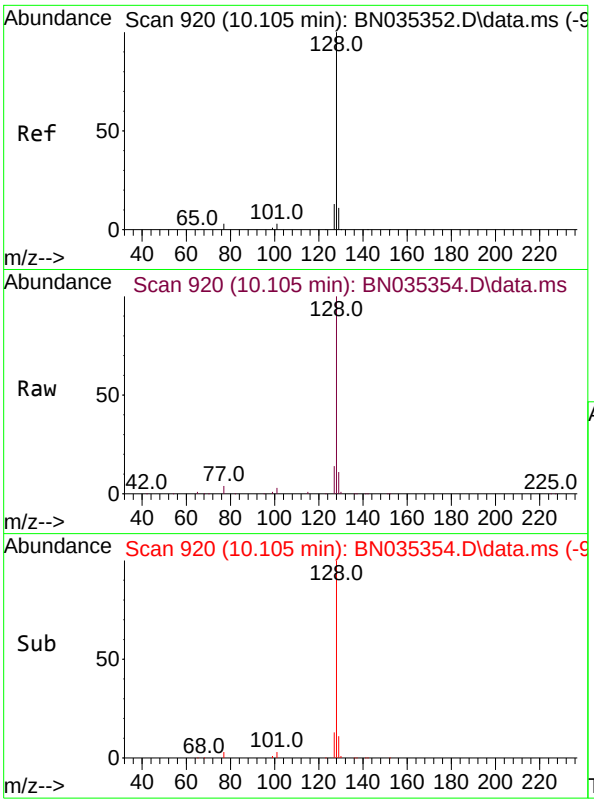


#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

Ion	Ratio	Lower	Upper
82	100		
128	40.8	33.4	50.0
54	40.3	36.7	55.1



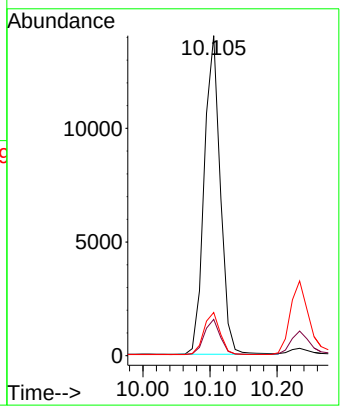


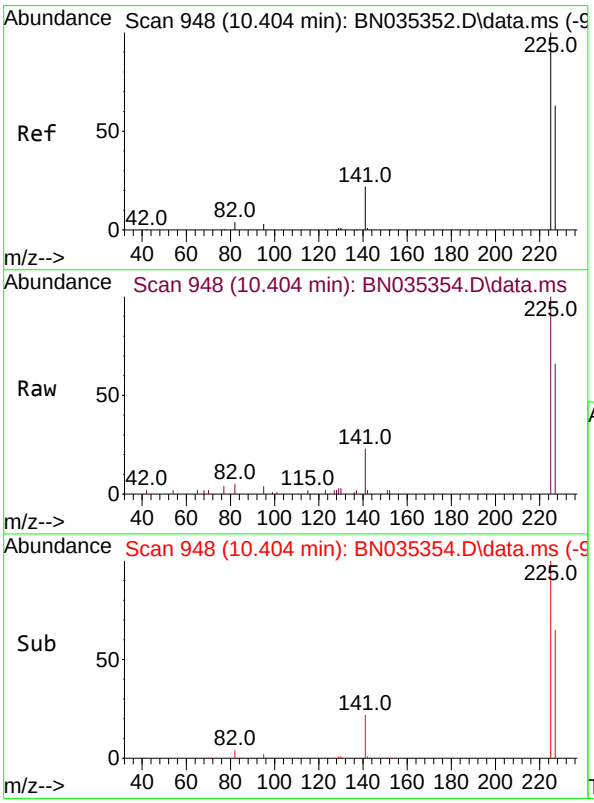
#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 23280

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.5	11.4	17.2

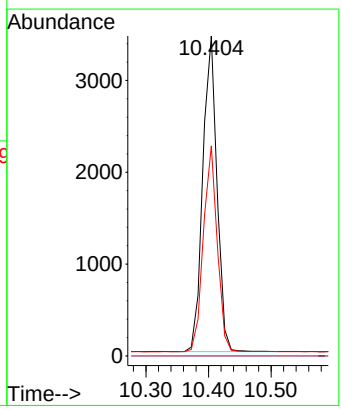


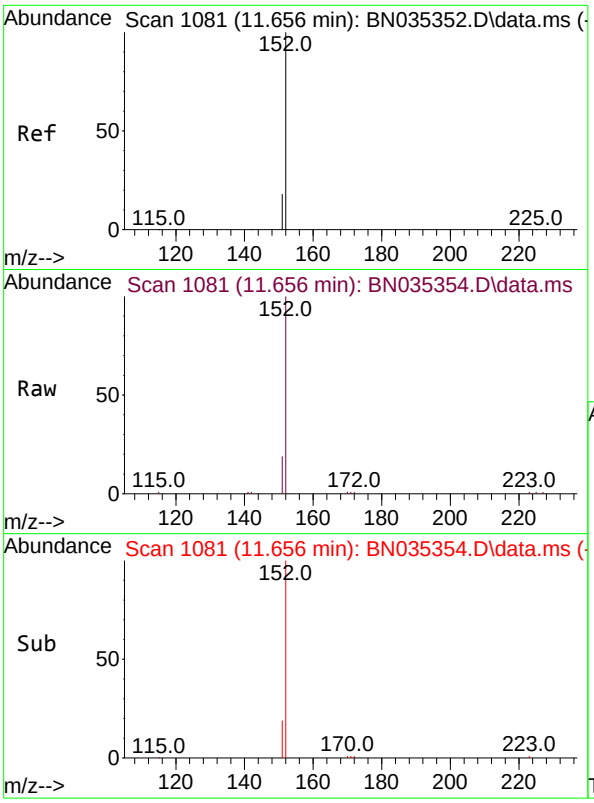


#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	51.3	76.9



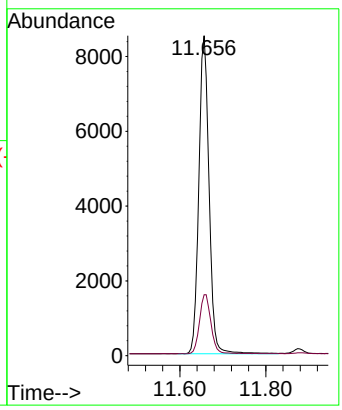


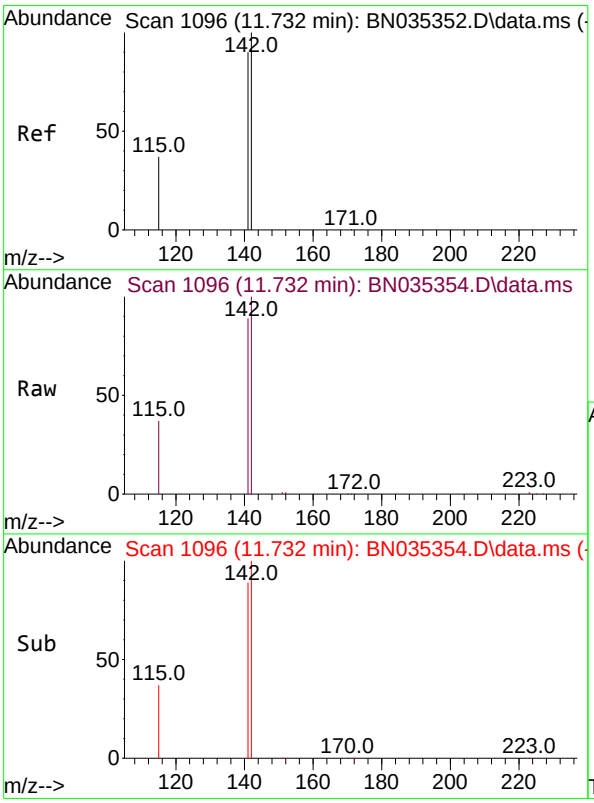
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

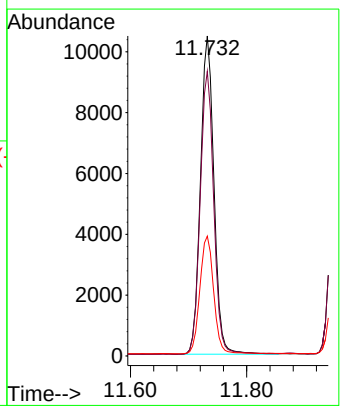


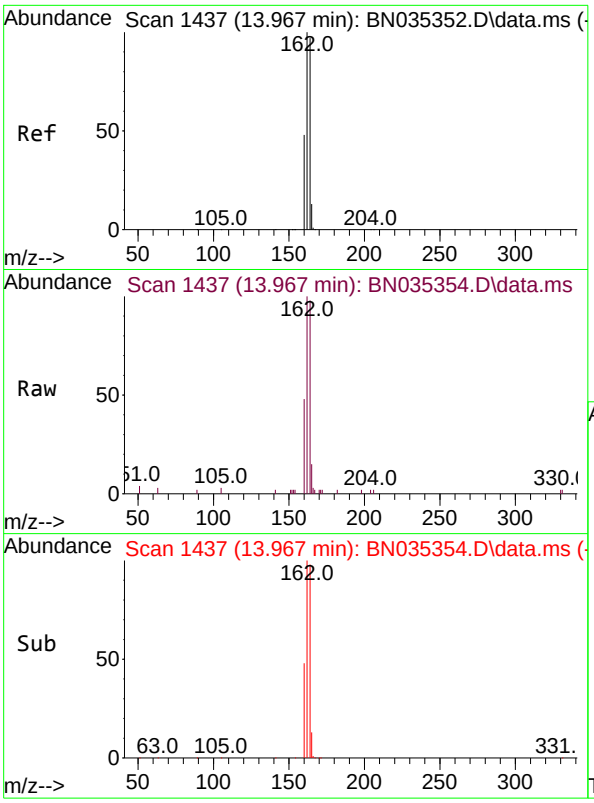


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	37.5	31.4	47.0



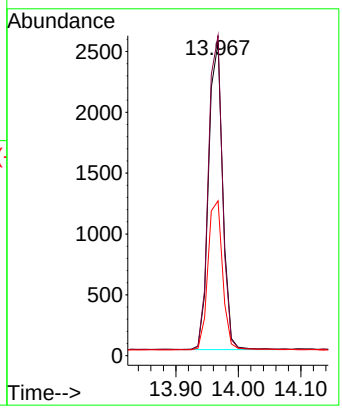


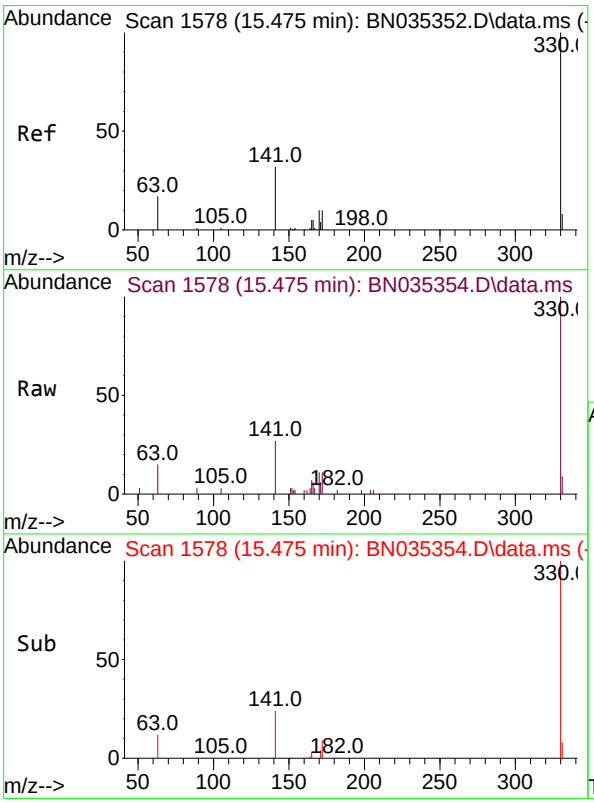
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3942

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	49.5	40.1	60.1

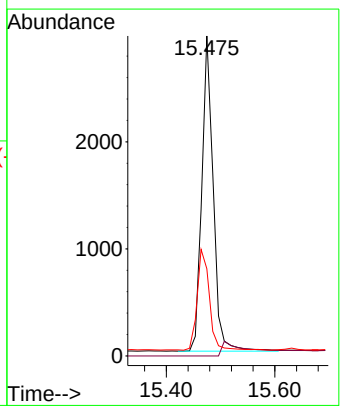


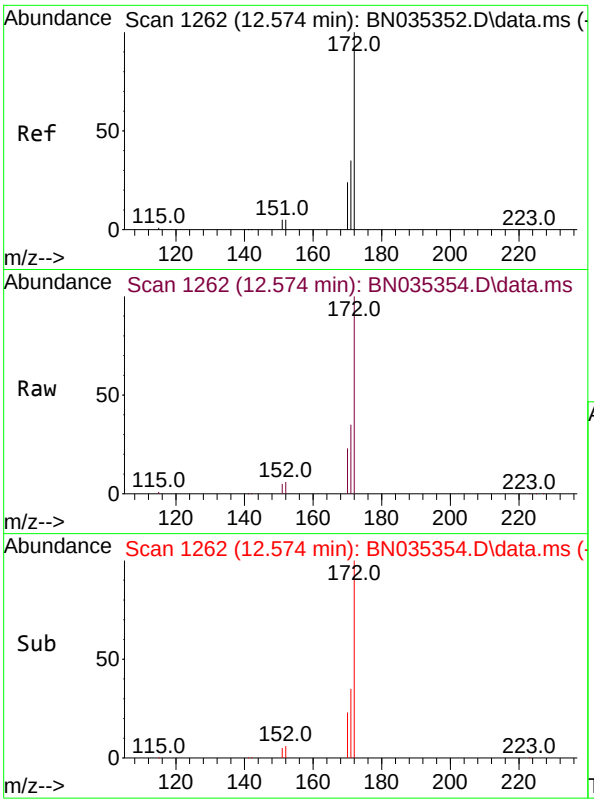


#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.6	26.6	40.0



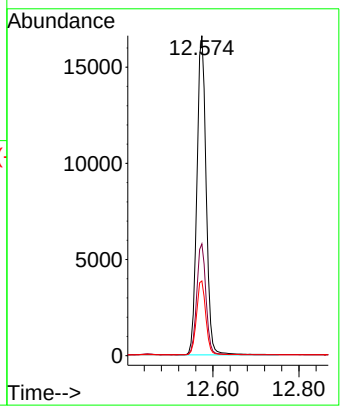


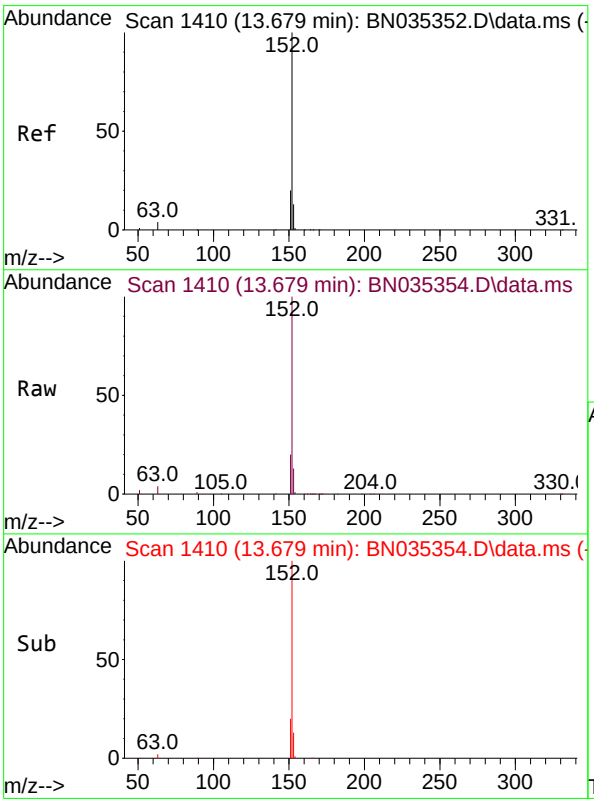
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 24687

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.4	19.8	29.8

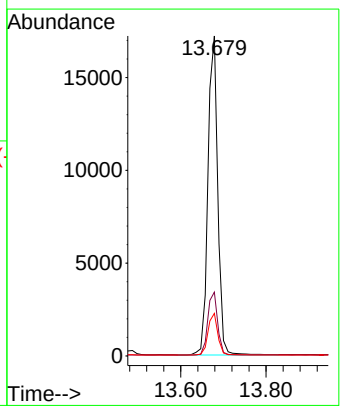


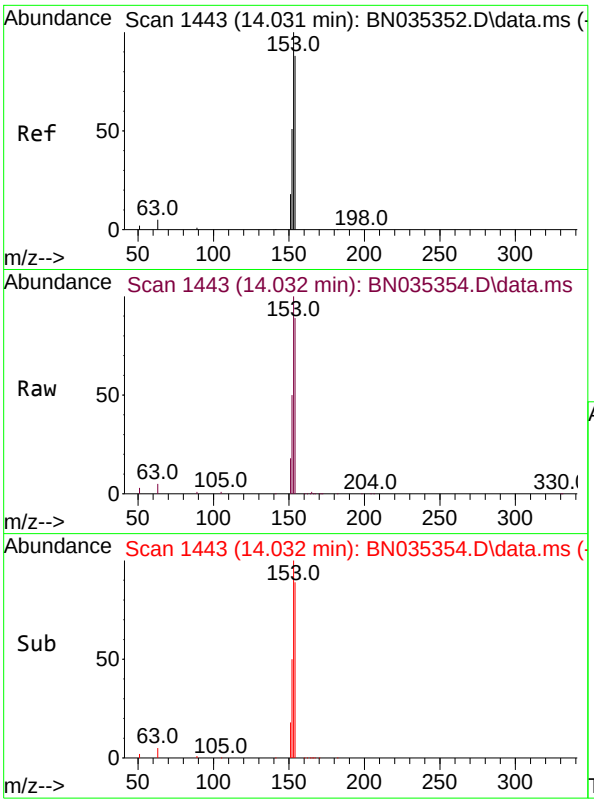


#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.0	10.4	15.6



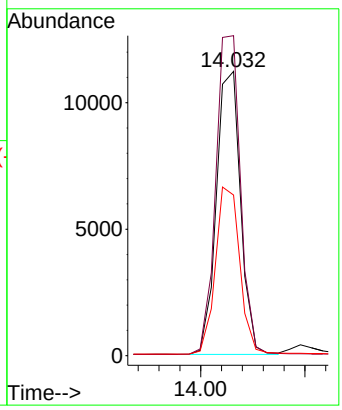


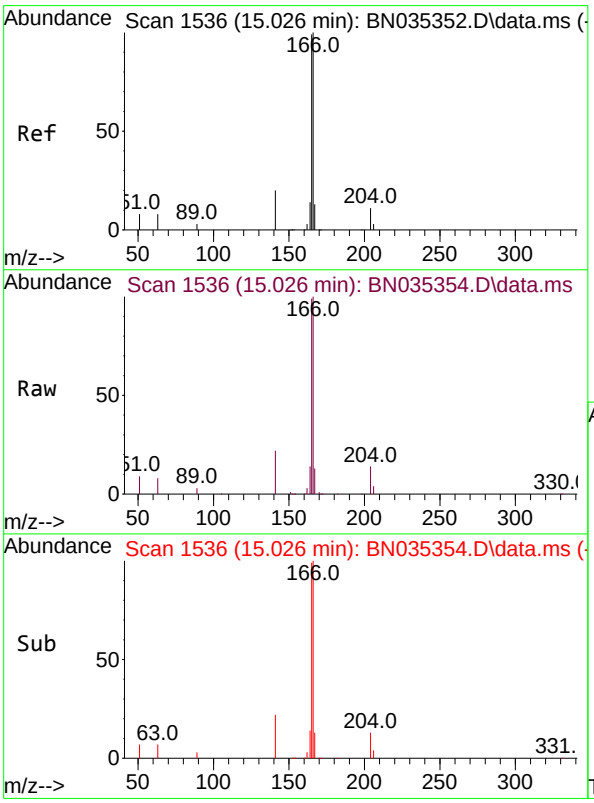
#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18061

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	59.9	49.0	73.6

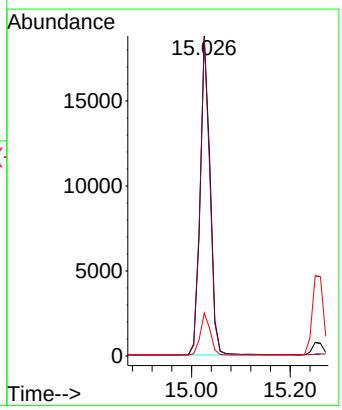


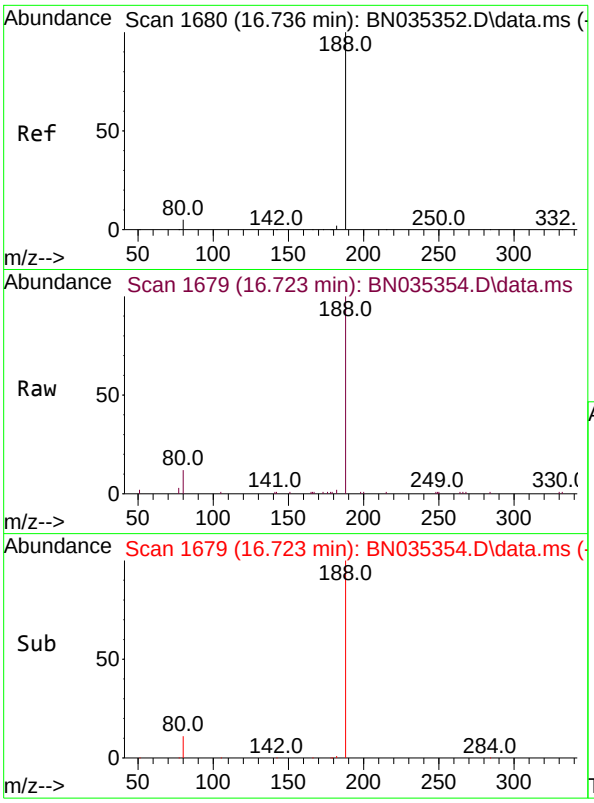


#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.7	119.5
167	13.3	10.8	16.2



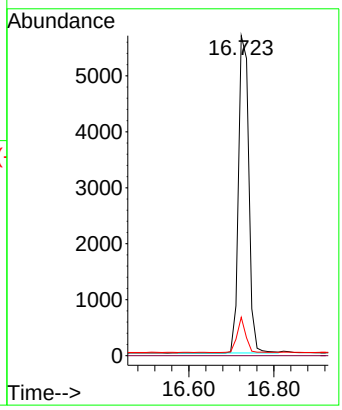


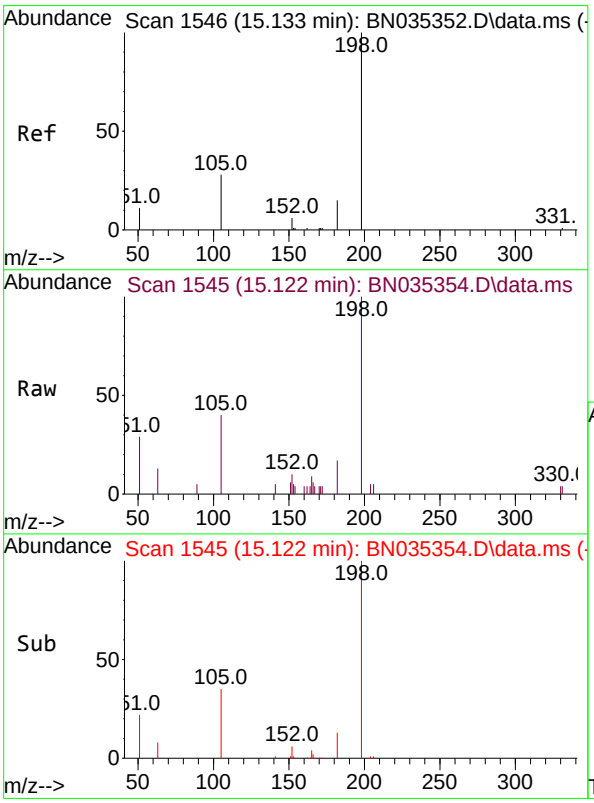
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 9517

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	4.6	6.8#

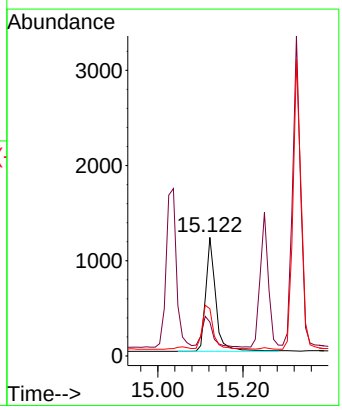


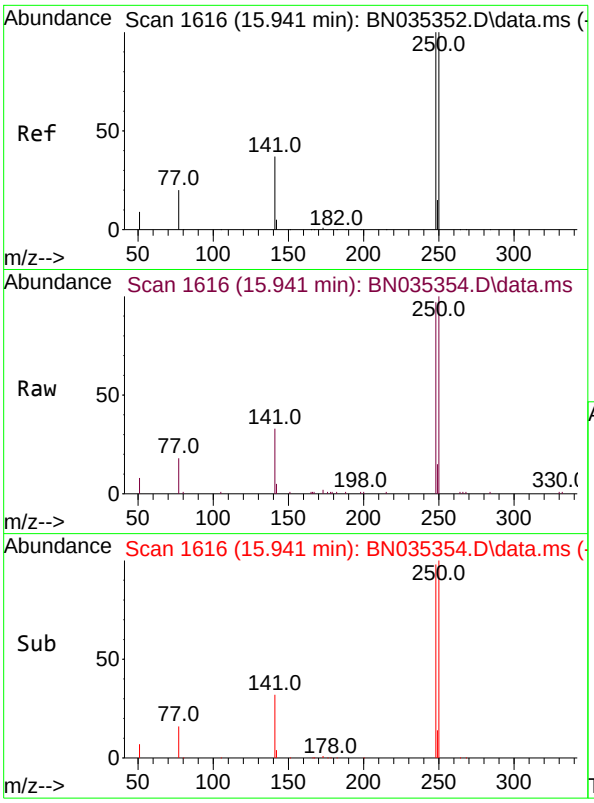


#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

Ion	Ratio	Lower	Upper
198	100		
51	28.6	46.5	69.7#
105	39.8	45.3	67.9#



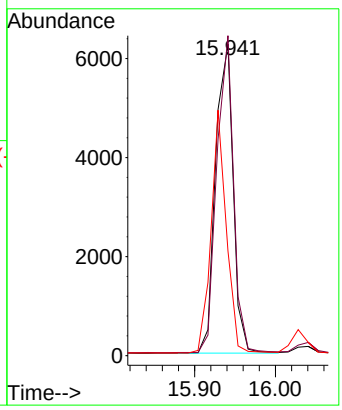


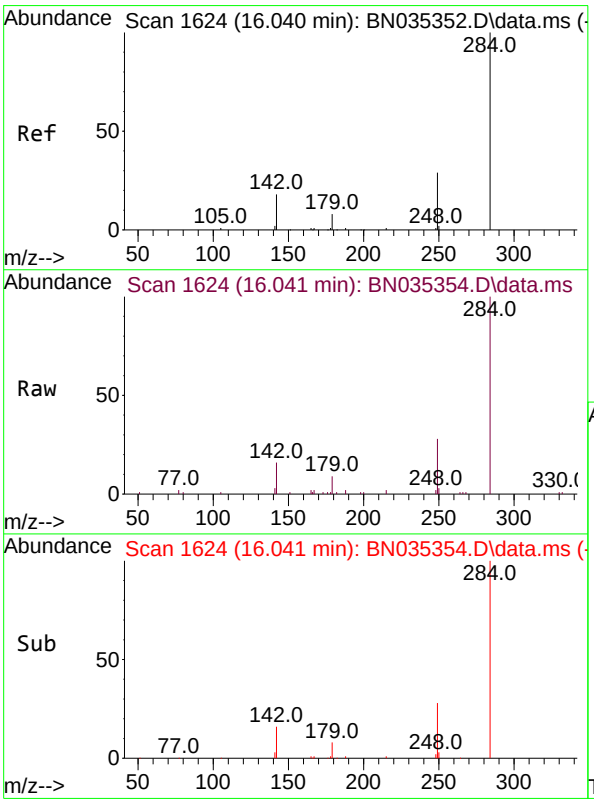
#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 9493

Ion	Ratio	Lower	Upper
248	100		
250	102.7	80.6	120.8
141	33.7	31.5	47.3

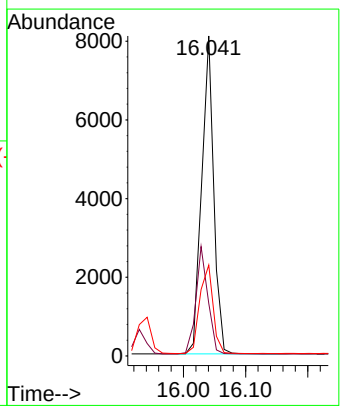


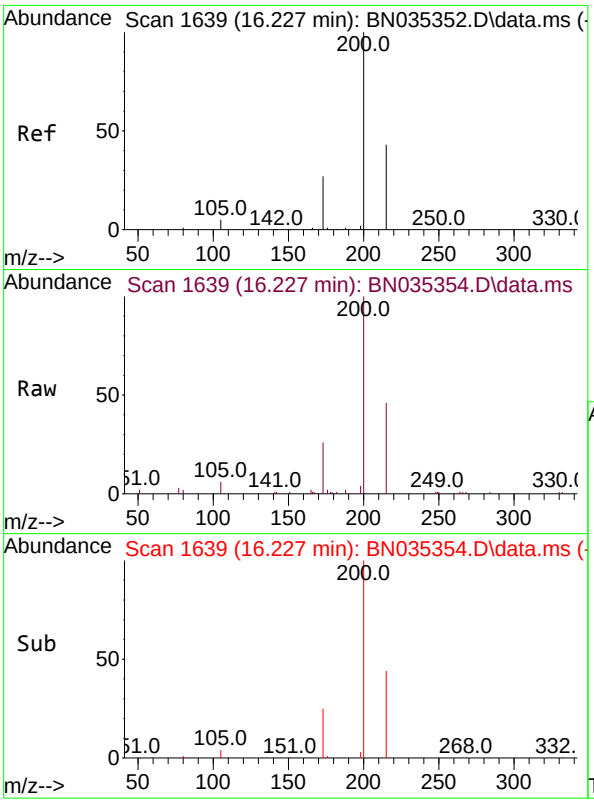


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.6	24.6	36.8



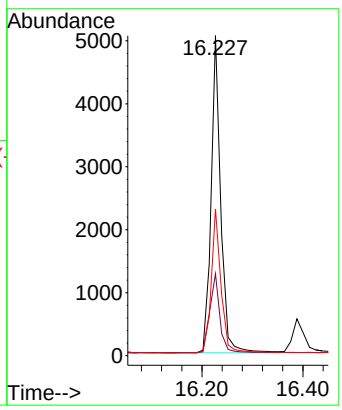


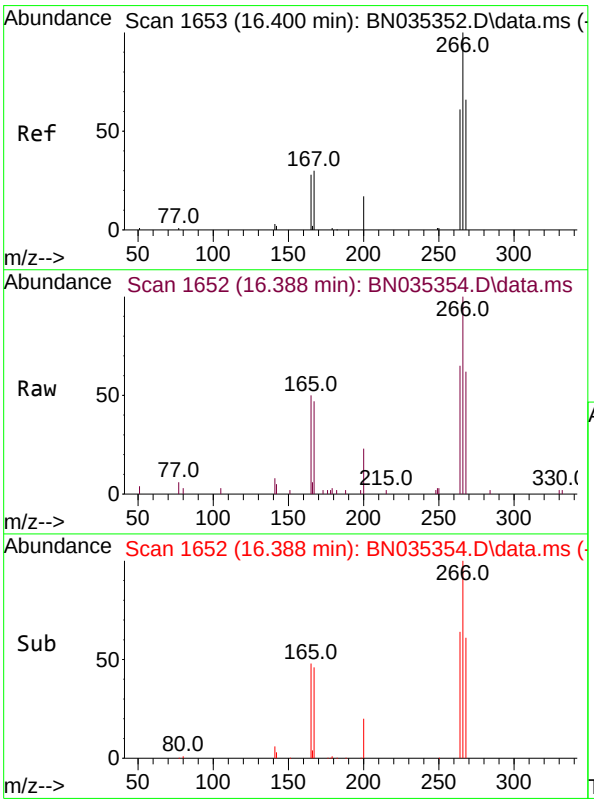
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6644

Ion	Ratio	Lower	Upper
200	100		
173	25.6	24.1	36.1
215	45.8	36.9	55.3

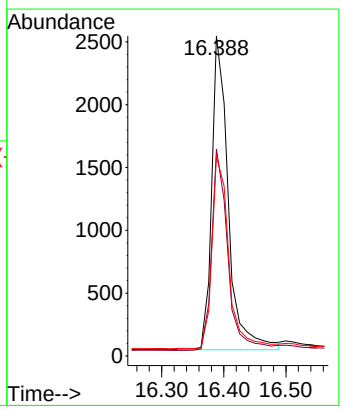


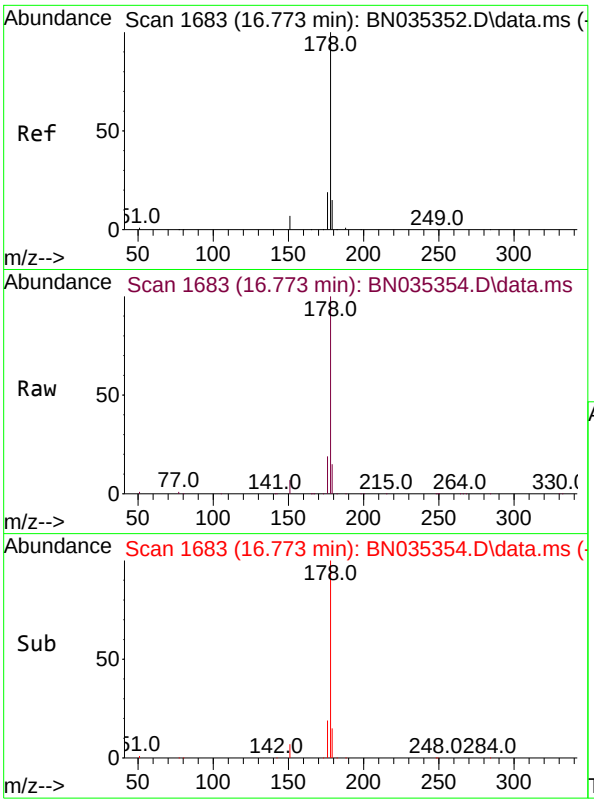


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

Ion	Ratio	Lower	Upper
266	100		
264	64.8	42.3	63.5#
268	62.9	43.3	64.9



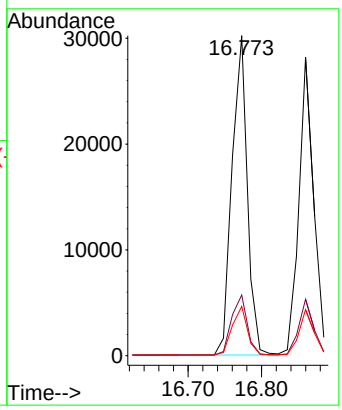


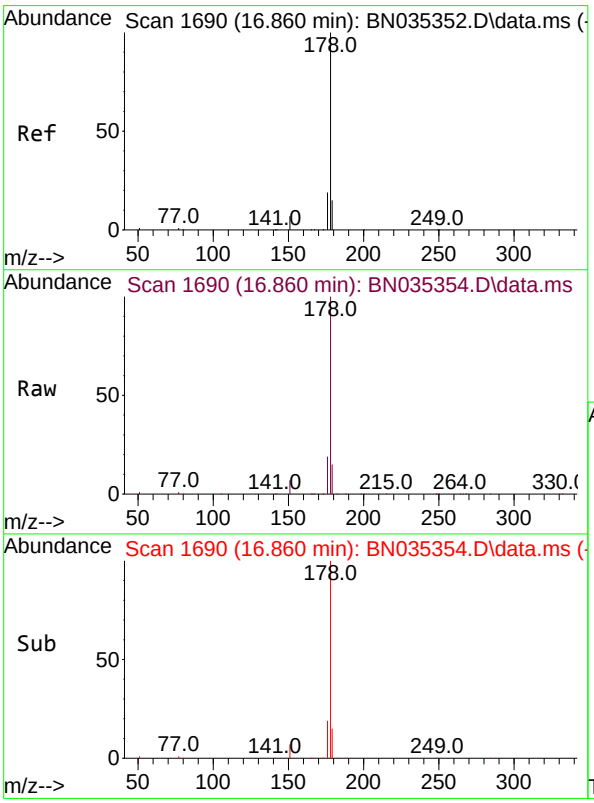
#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 43698

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.3	18.5

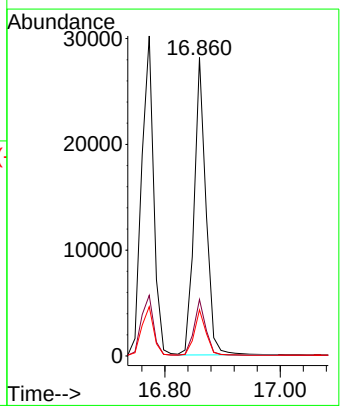


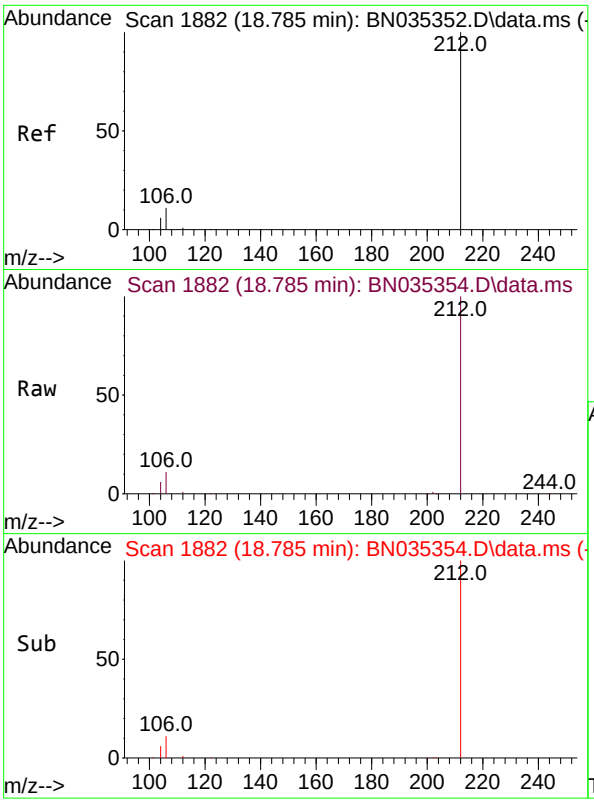


#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.6	18.8



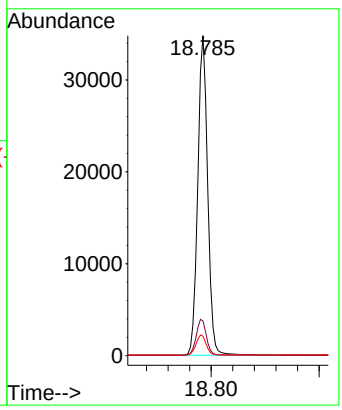


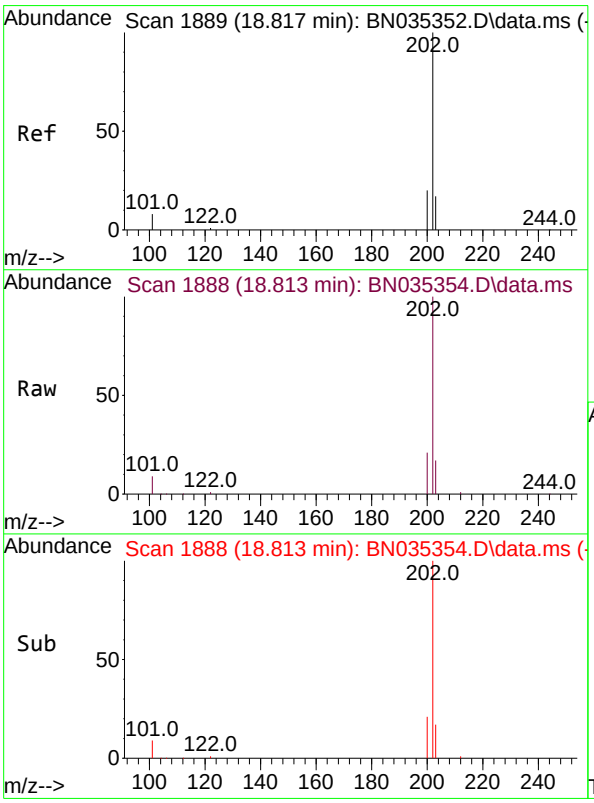
#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 44338

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

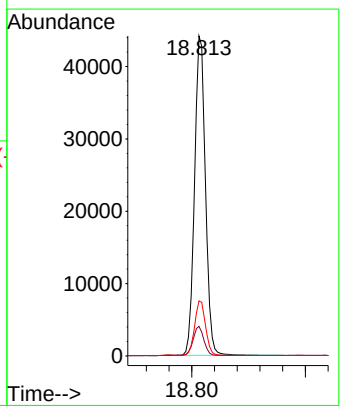


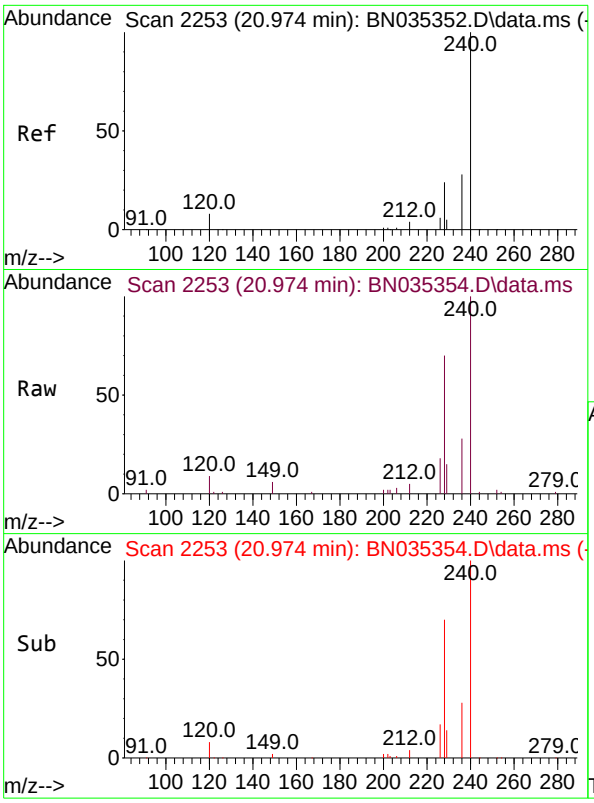


#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



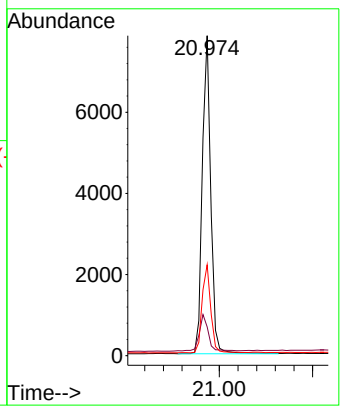


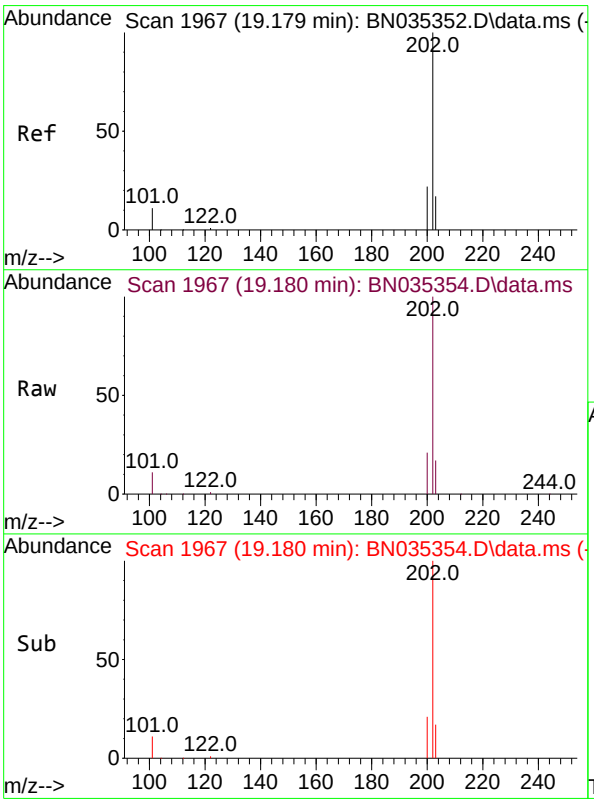
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9905

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.9	11.9
236	28.4	22.9	34.3

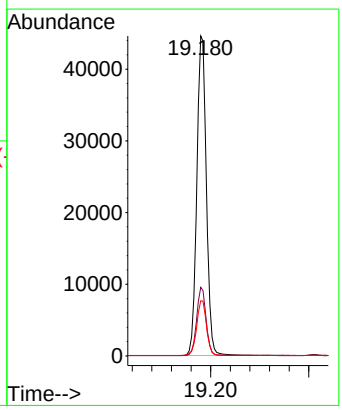


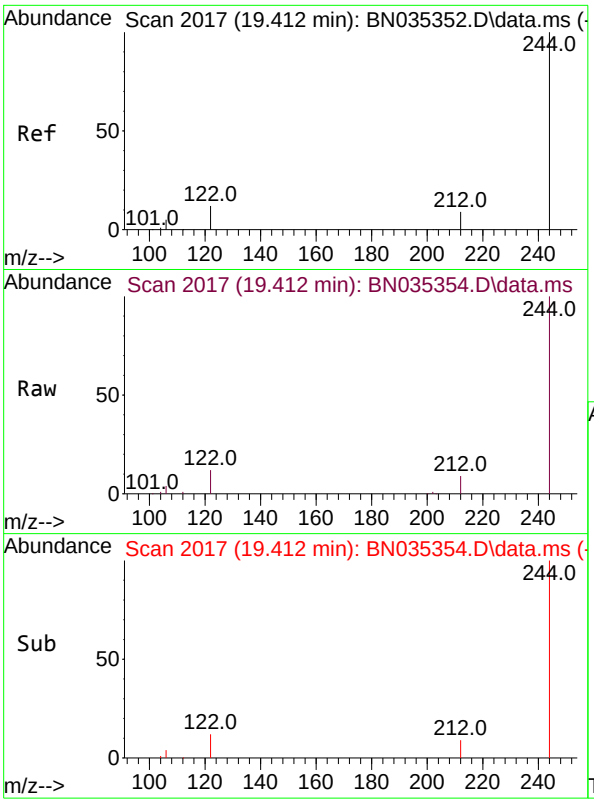


#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



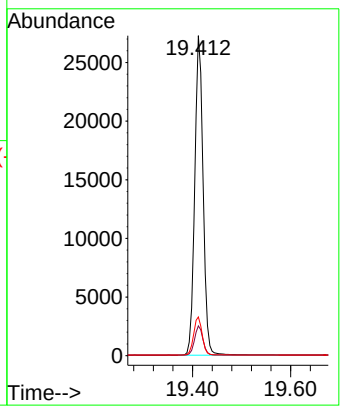


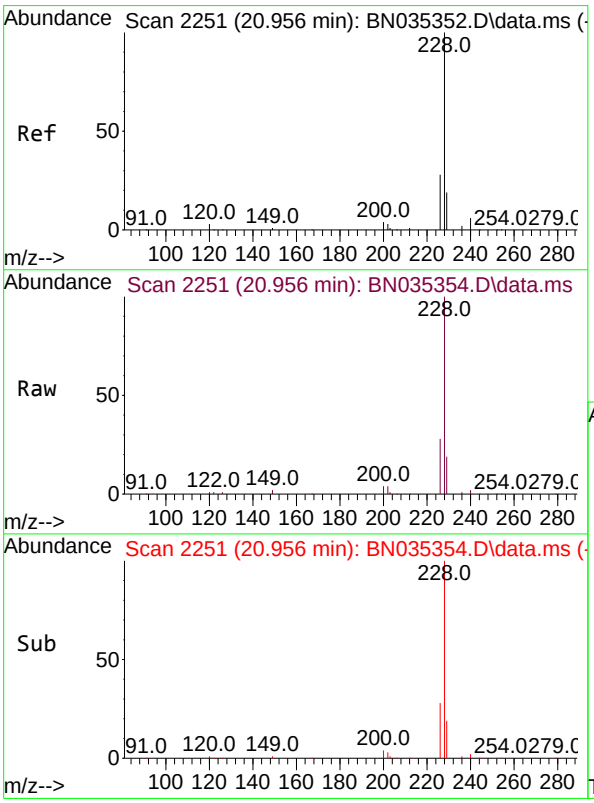
#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 32174

Ion	Ratio	Lower	Upper
244	100		
212	9.3	8.1	12.1
122	12.1	10.3	15.5

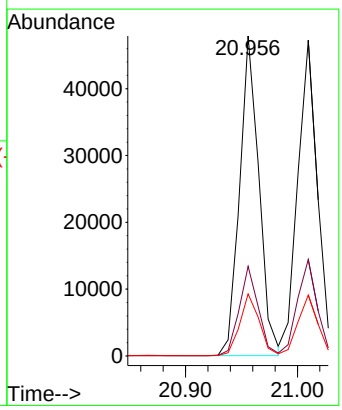


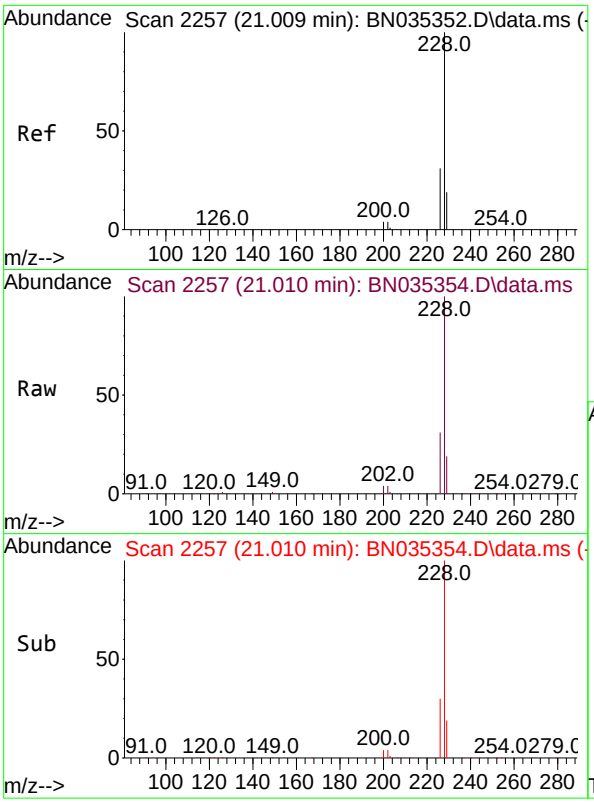


#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	19.4	15.8	23.8



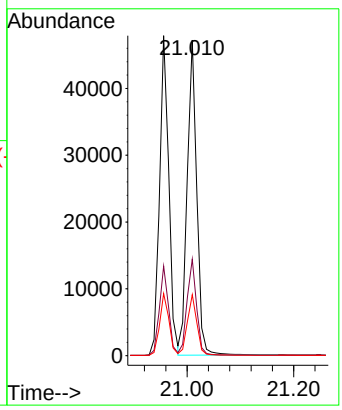


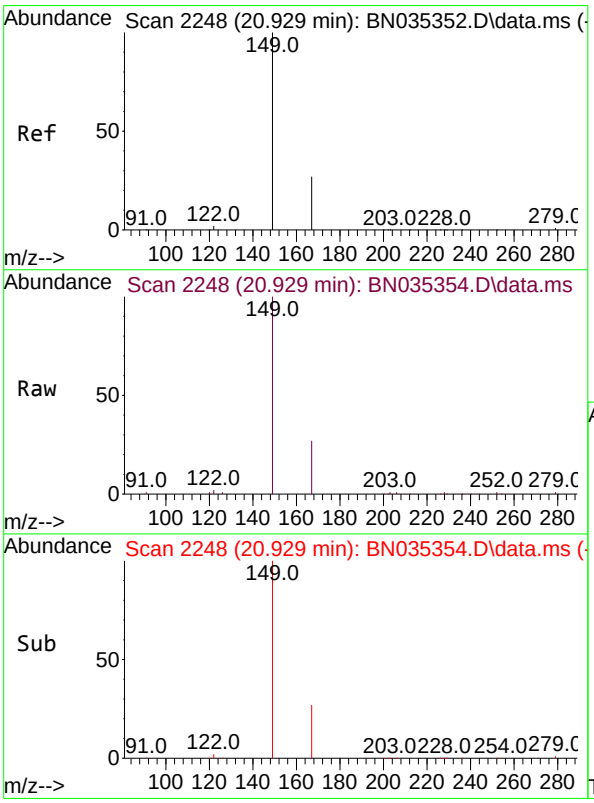
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58919

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.3	15.9	23.9

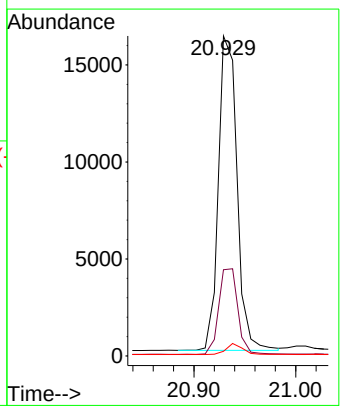


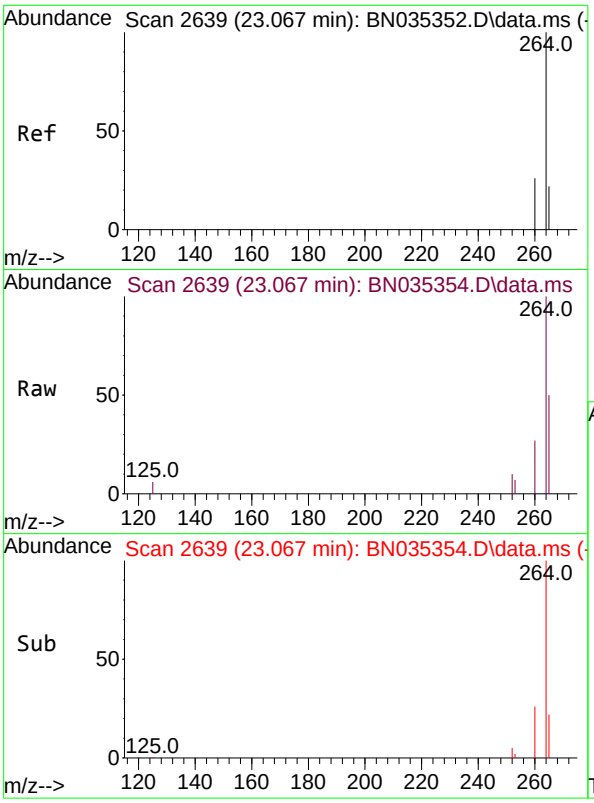


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.2	2.7	4.1



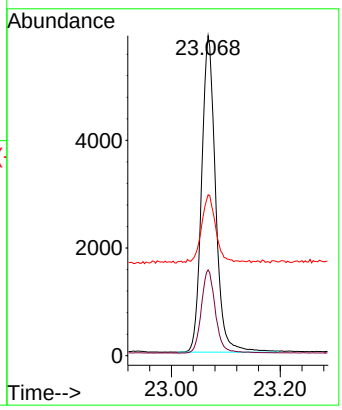


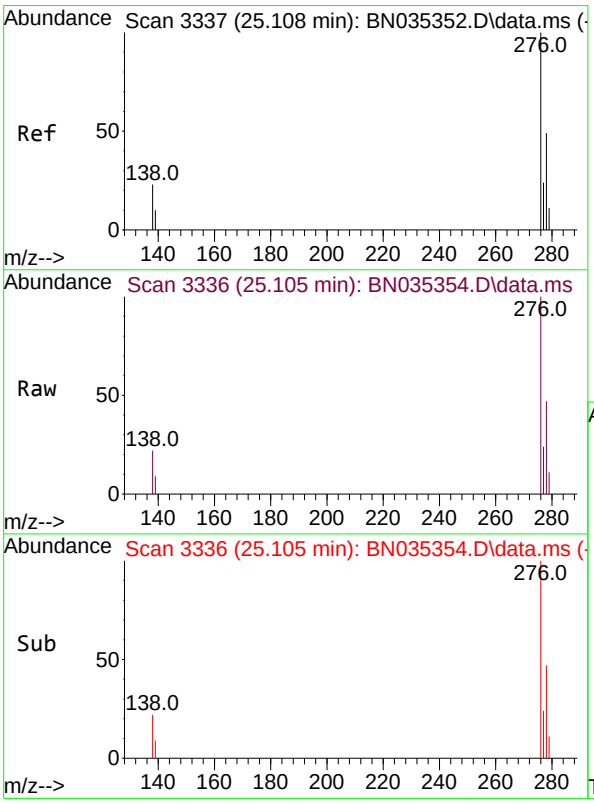
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10469

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

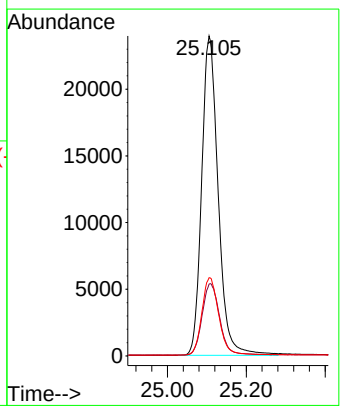


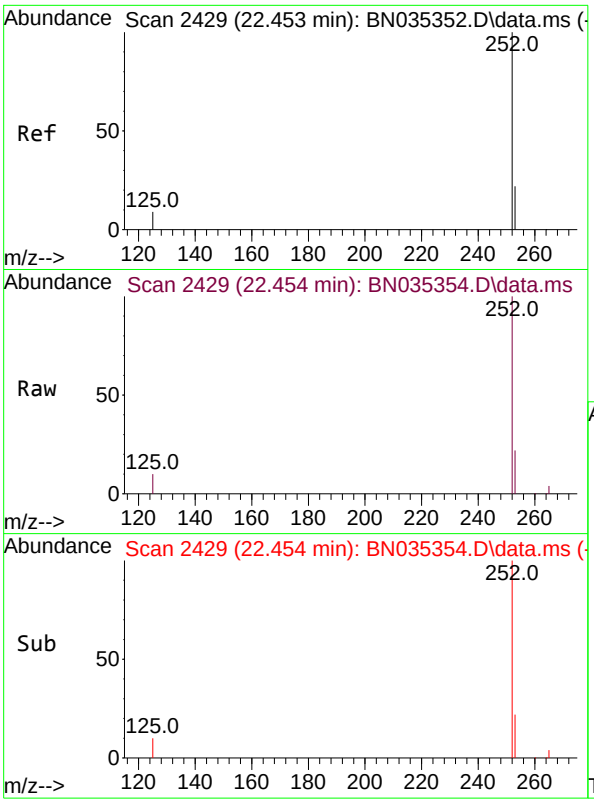


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.8	19.8	29.6



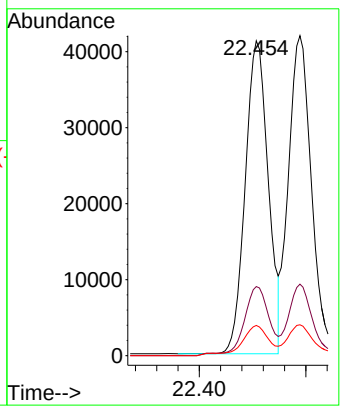


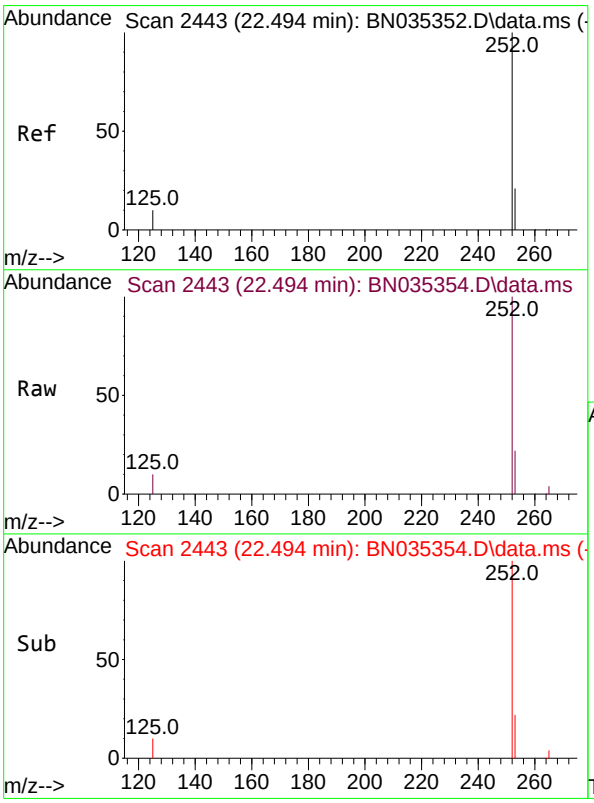
#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 76506

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.6	9.6	14.4

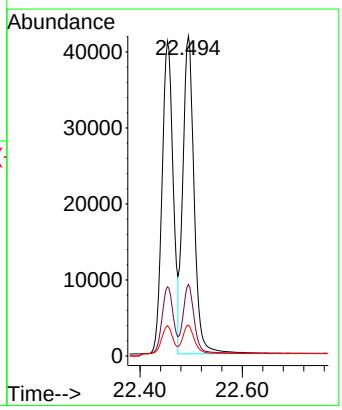


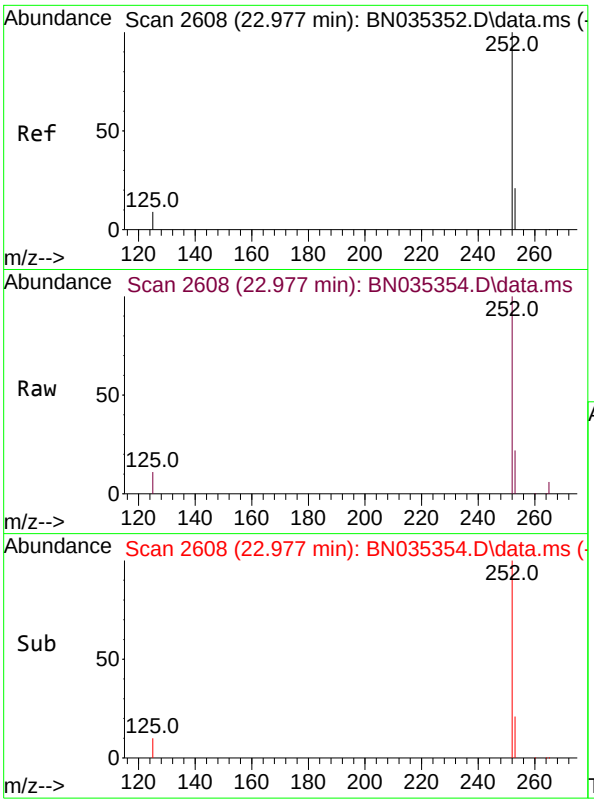


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

Ion	Ratio	Lower	Upper
252	100		
253	22.3	19.5	29.3
125	9.7	10.2	15.4#



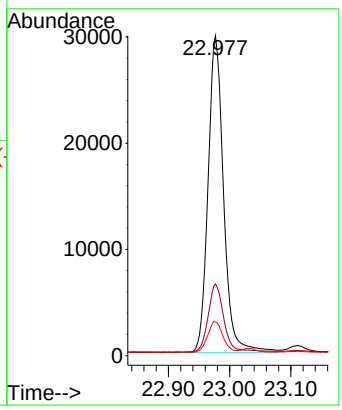


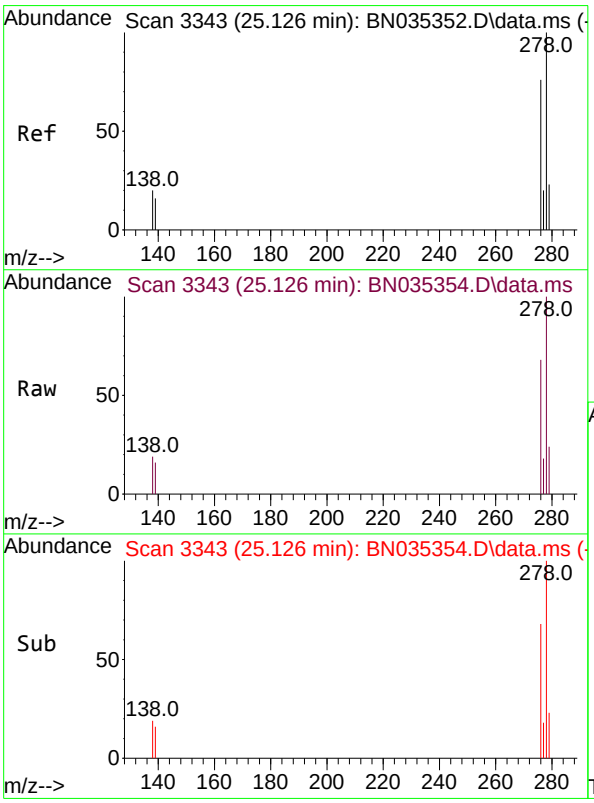
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 52595

Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.2	30.4
125	10.5	10.9	16.3#

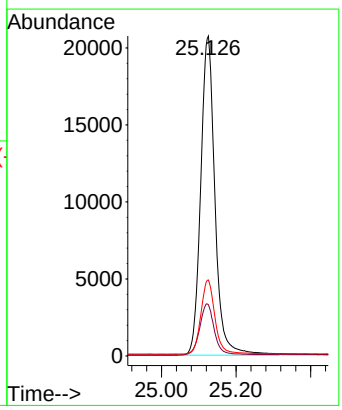


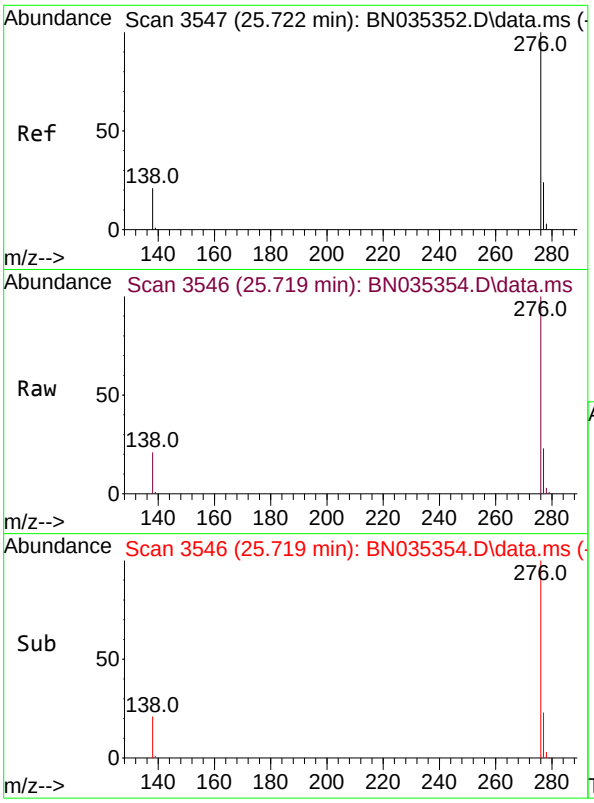


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

Ion	Ratio	Lower	Upper
278	100		
139	16.0	14.2	21.4
279	23.8	20.5	30.7



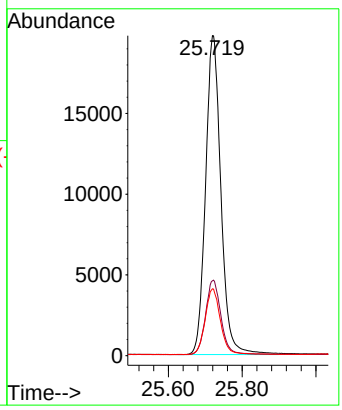


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 56947

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.9	29.9
138	20.9	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11206	0.400	ng		0.00
35) Perylene-d12	23.067	264	11643	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	16991	3.007	ng		0.00
5) Phenol-d6	6.513	99	21633	3.053	ng		0.00
8) Nitrobenzene-d5	8.440	82	11759	2.307	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	29957	2.870	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	10700	3.444	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	52048	2.976	ng		0.00
27) Fluoranthene-d10	18.785	212	95675	2.971	ng		0.00
31) Terphenyl-d14	19.412	244	69164	2.941	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	6360	3.146	ng		99
3) n-Nitrosodimethylamine	3.285	42	5524	2.932	ng	#	95
6) bis(2-Chloroethyl)ether	6.759	93	17762	3.339	ng		99
9) Naphthalene	10.105	128	49151	3.214	ng		97
10) Hexachlorobutadiene	10.404	225	11039	2.463	ng	#	100
12) 2-Methylnaphthalene	11.732	142	36121	3.202	ng		98
16) Acenaphthylene	13.679	152	60734	3.300	ng		99
17) Acenaphthene	14.031	154	38676	3.206	ng		99
18) Fluorene	15.026	166	55613	3.134	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	20321	3.034	ng	#	93
22) Hexachlorobenzene	16.040	284	23349	3.359	ng		99
23) Atrazine	16.227	200	15072	2.508	ng		96
24) Pentachlorophenol	16.388	266	11439	3.522	ng		86
25) Phenanthrene	16.773	178	94243	3.406	ng		100
26) Anthracene	16.860	178	87657	3.449	ng		99
28) Fluoranthene	18.812	202	125901	3.309	ng		100
30) Pyrene	19.179	202	129105	3.460	ng		100
32) Benzo(a)anthracene	20.956	228	126517	3.242	ng		99
33) Chrysene	21.009	228	127439	3.297	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	46251	2.259	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	150433	3.239	ng		99
37) Benzo(b)fluoranthene	22.456	252	136261	3.478	ng	#	94
38) Benzo(k)fluoranthene	22.494	252	134789	3.439	ng	#	93
39) Benzo(a)pyrene	22.980	252	114719	3.328	ng	#	93
40) Dibenzo(a,h)anthracene	25.123	278	119216	3.240	ng		96
41) Benzo(g,h,i)perylene	25.722	276	123841	3.164	ng		97

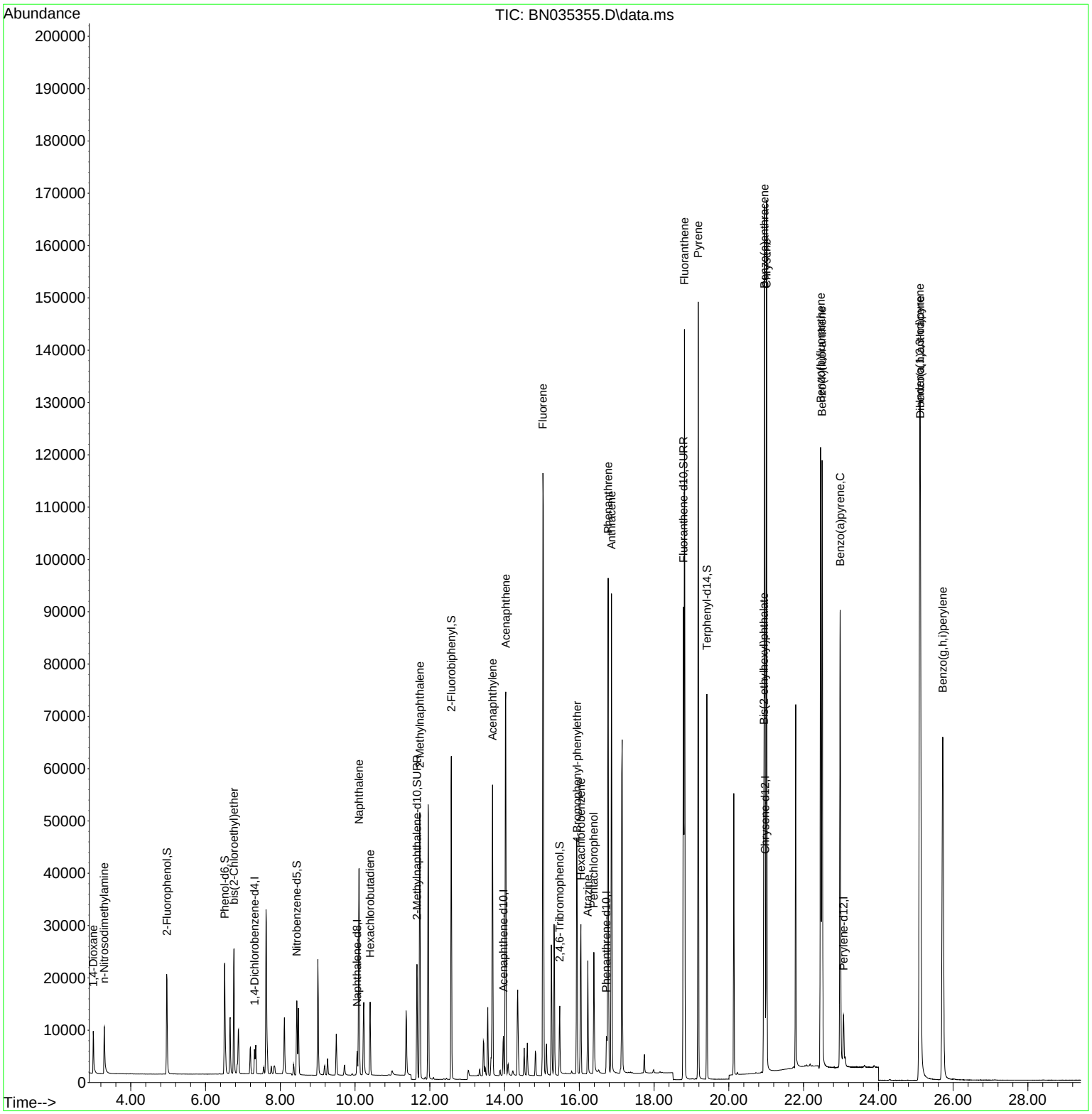
(#) = qualifier out of range (m) = manual integration (+) = signals summed

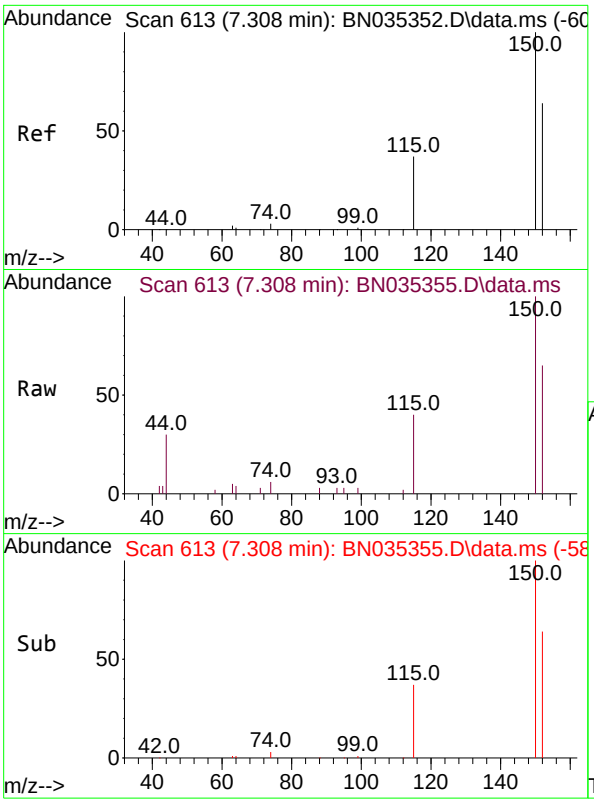
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035355.D
Acq On : 27 Nov 2024 18:33
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 27 22:53:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



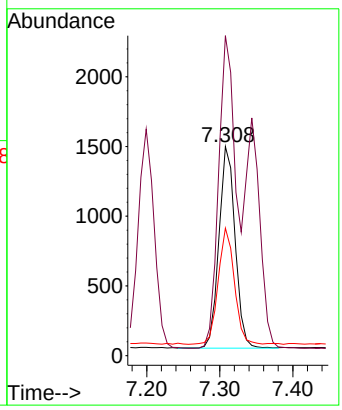


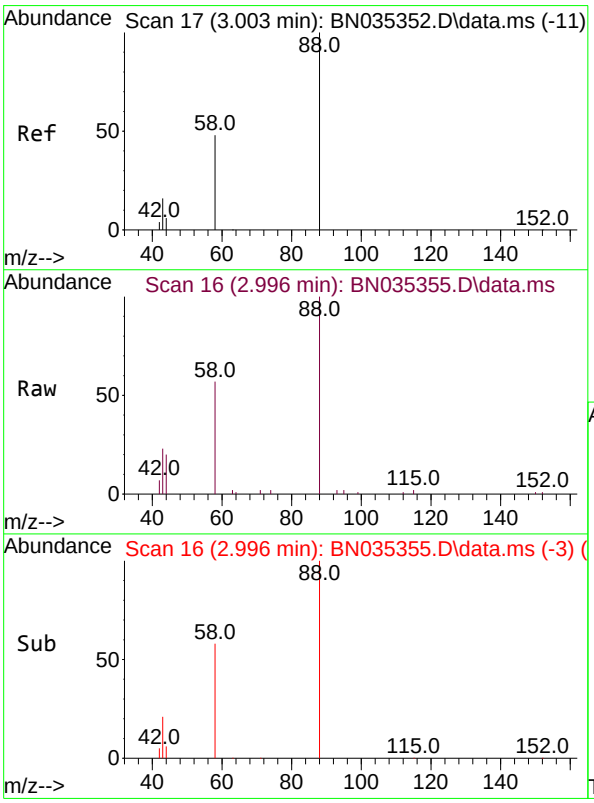
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2226

Ion	Ratio	Lower	Upper
152	100		
150	153.0	124.0	186.0
115	61.0	49.6	74.4

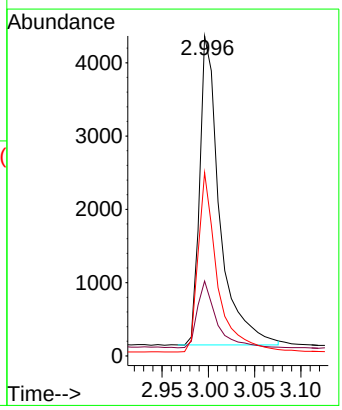


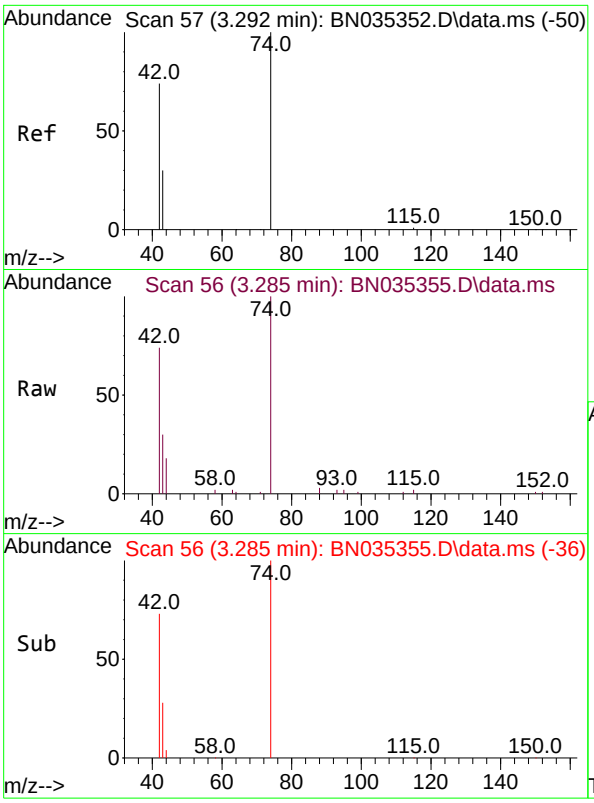


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

Ion	Ratio	Lower	Upper
88	100		
43	20.6	17.2	25.8
58	55.4	44.5	66.7



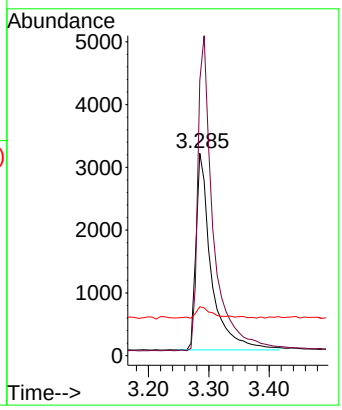


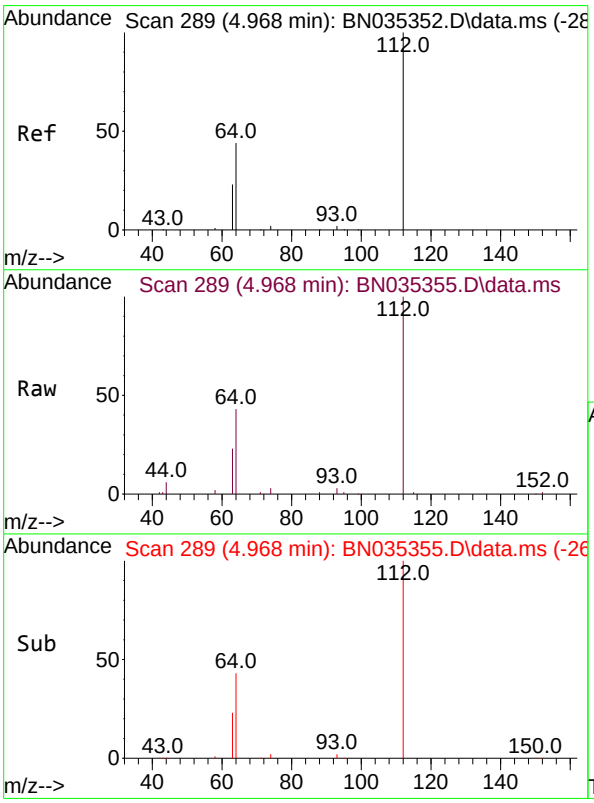
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

Ion	Ratio	Lower	Upper
42	100		
74	162.0	124.9	187.3
44	6.4	2.2	3.4#

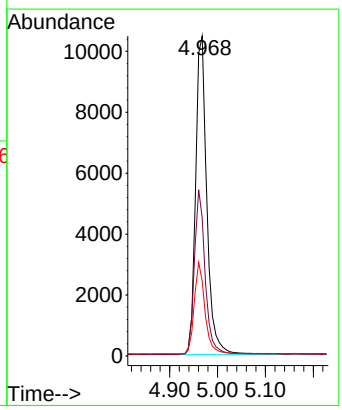


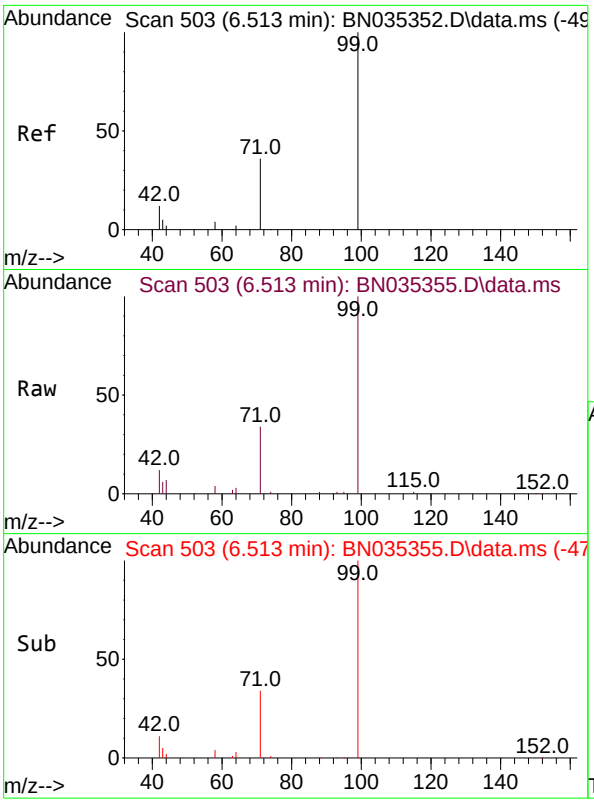


#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

Ion	Ratio	Lower	Upper
112	100		
64	49.7	39.8	59.8
63	27.1	21.0	31.6



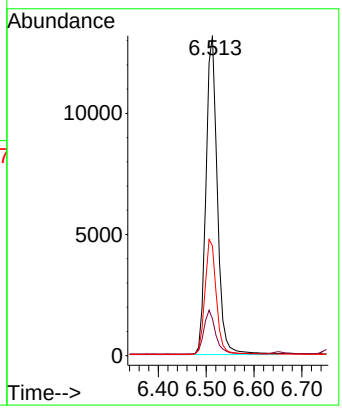


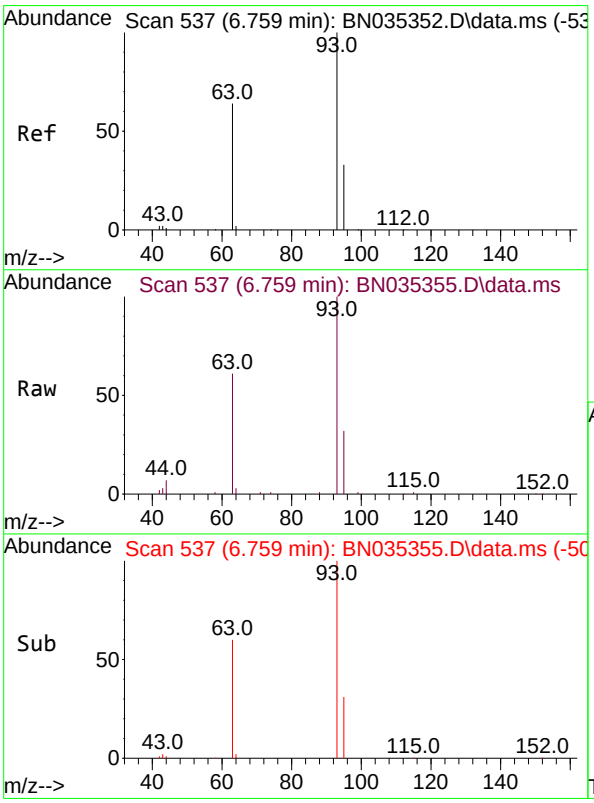
#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.5	29.3	43.9

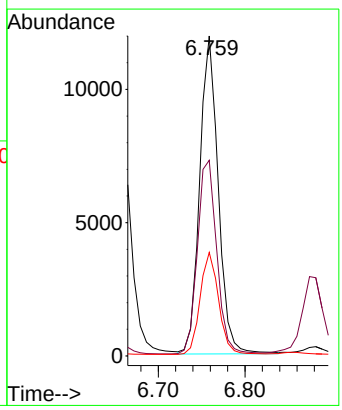


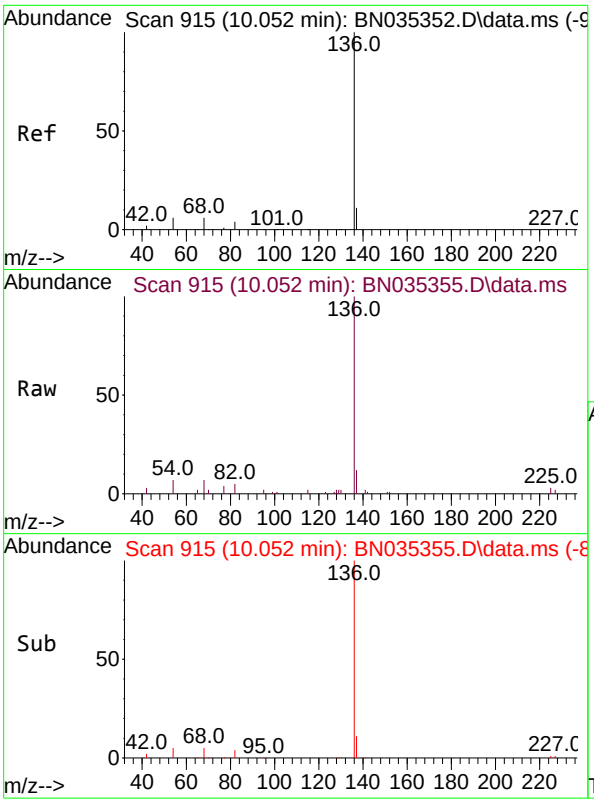


#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5



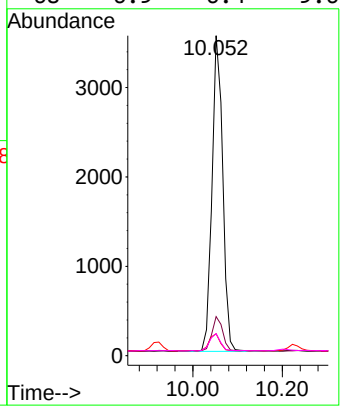


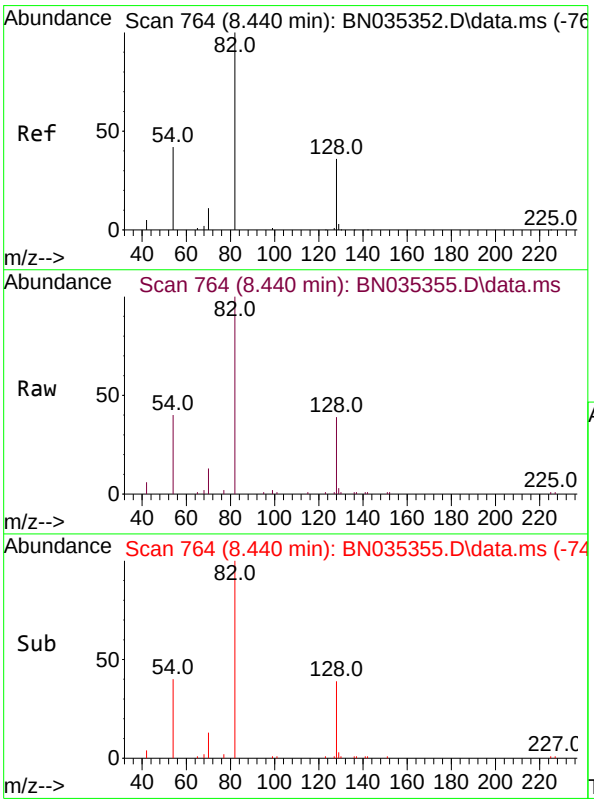
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5857

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	6.9	6.4	9.6

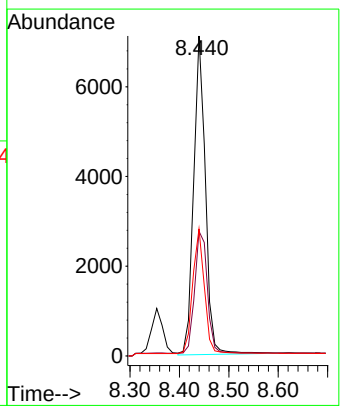


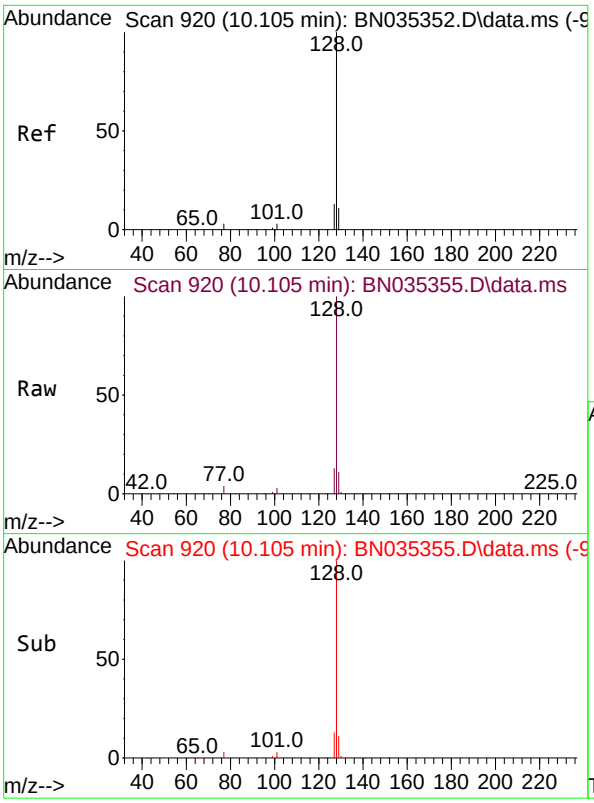


#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

Ion	Ratio	Lower	Upper
82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1



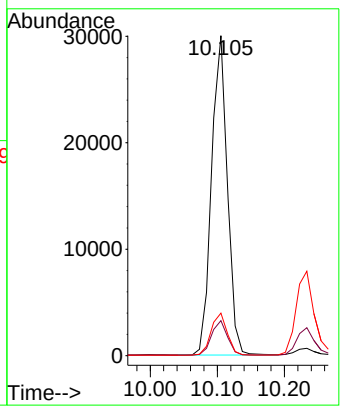


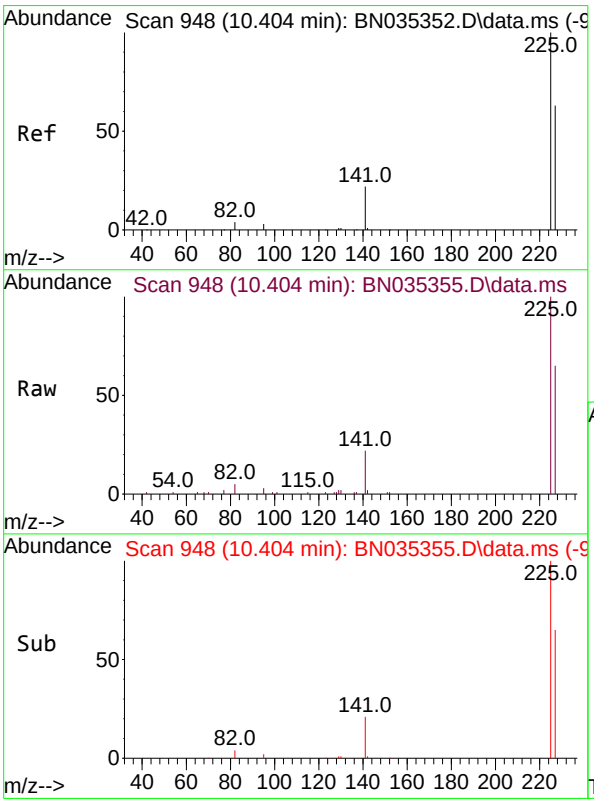
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49151

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.8	14.6
127	13.3	11.4	17.2

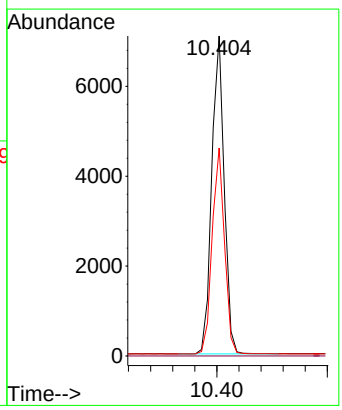


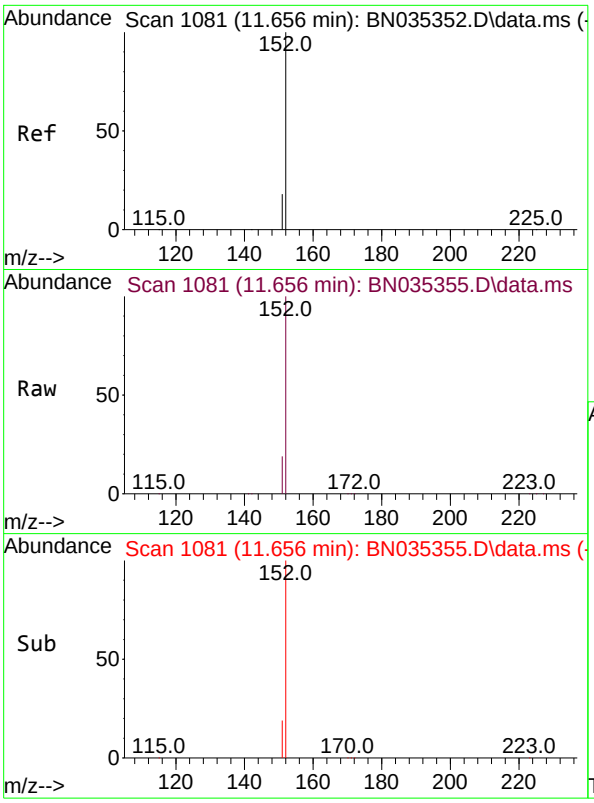


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



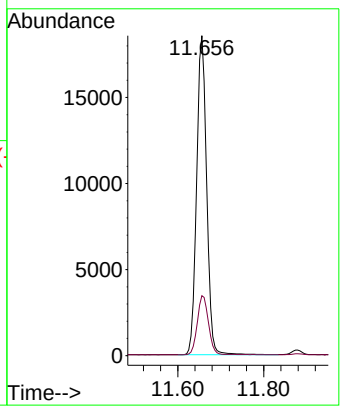


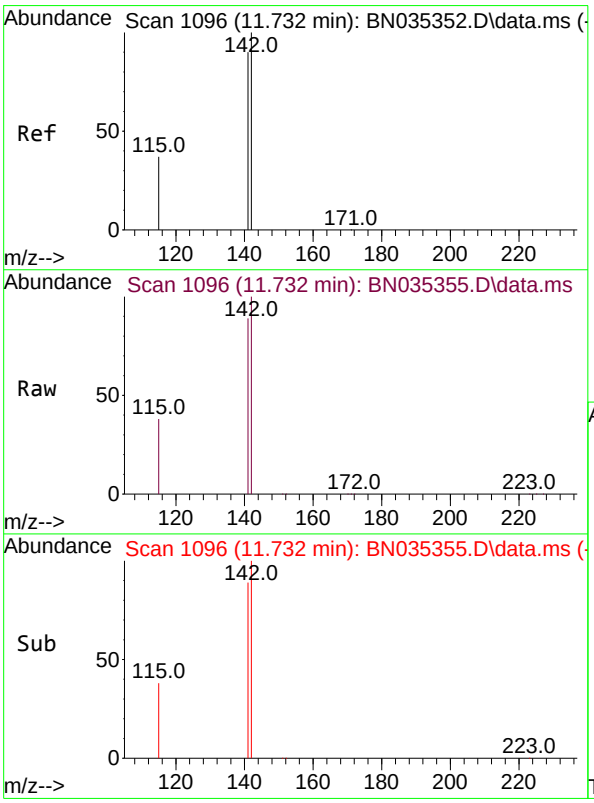
#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

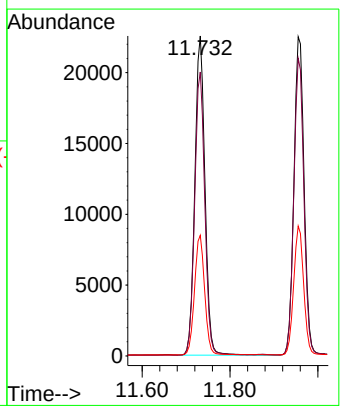


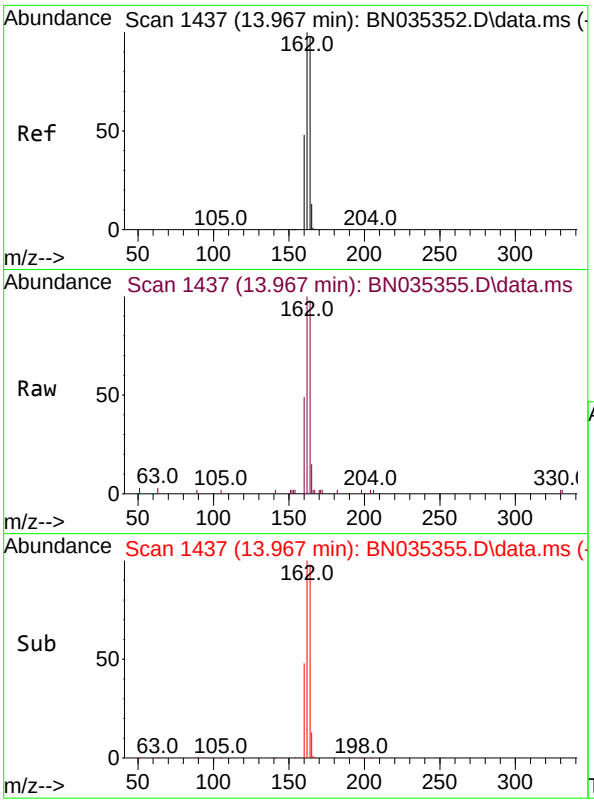


#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

Ion	Ratio	Lower	Upper
142	100		
141	88.7	72.2	108.4
115	37.7	31.4	47.0



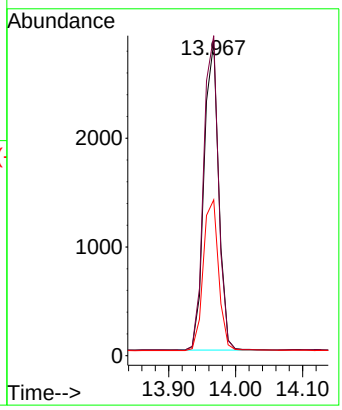


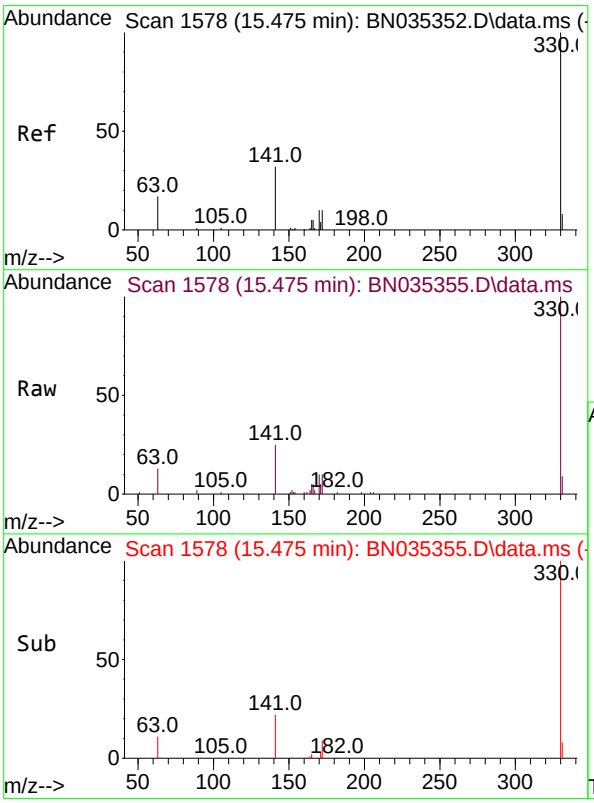
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4307

Ion	Ratio	Lower	Upper
164	100		
162	102.0	82.2	123.2
160	49.7	40.1	60.1

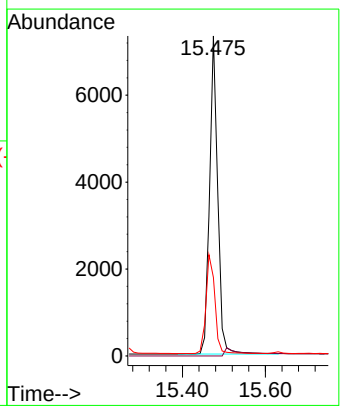


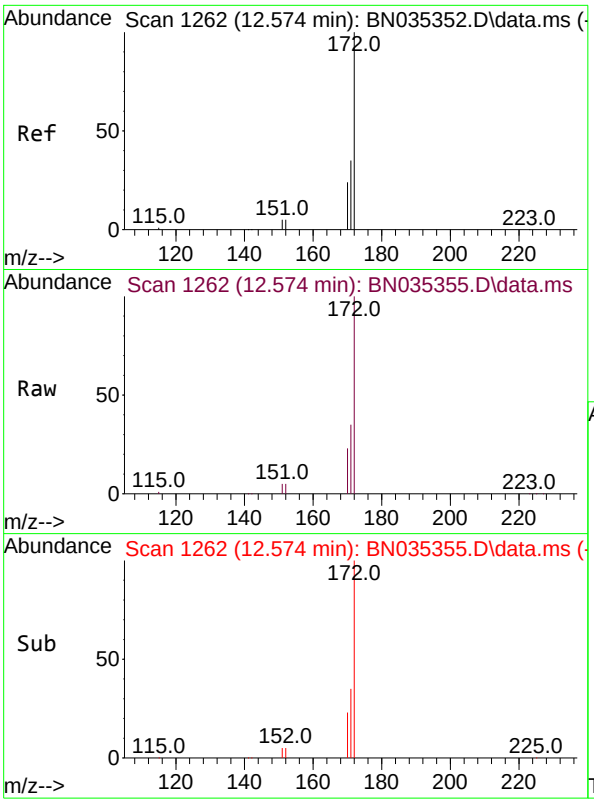


#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.7	26.6	40.0



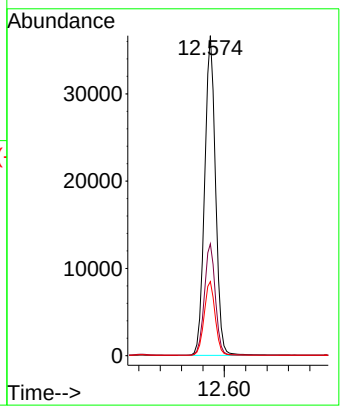


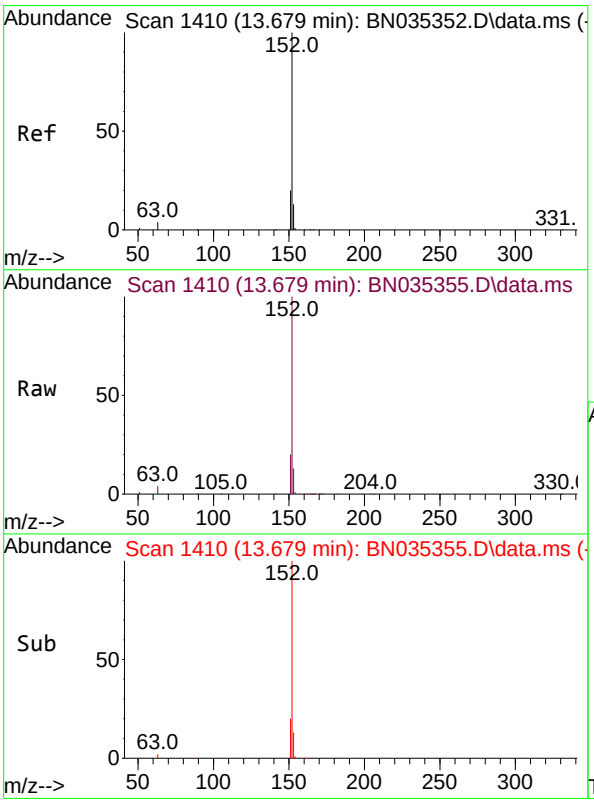
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 52048

Ion	Ratio	Lower	Upper
172	100		
171	35.0	29.0	43.4
170	23.1	19.8	29.8

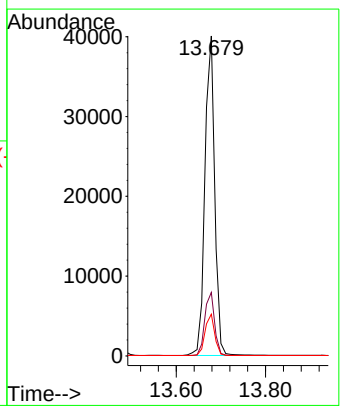


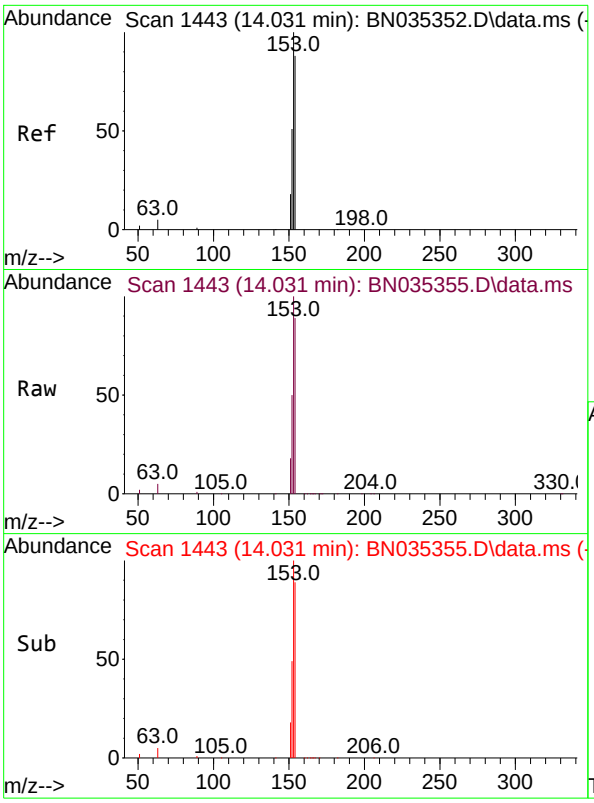


#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



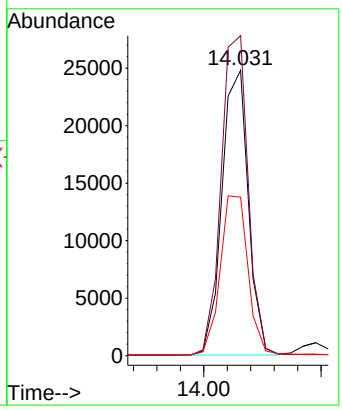


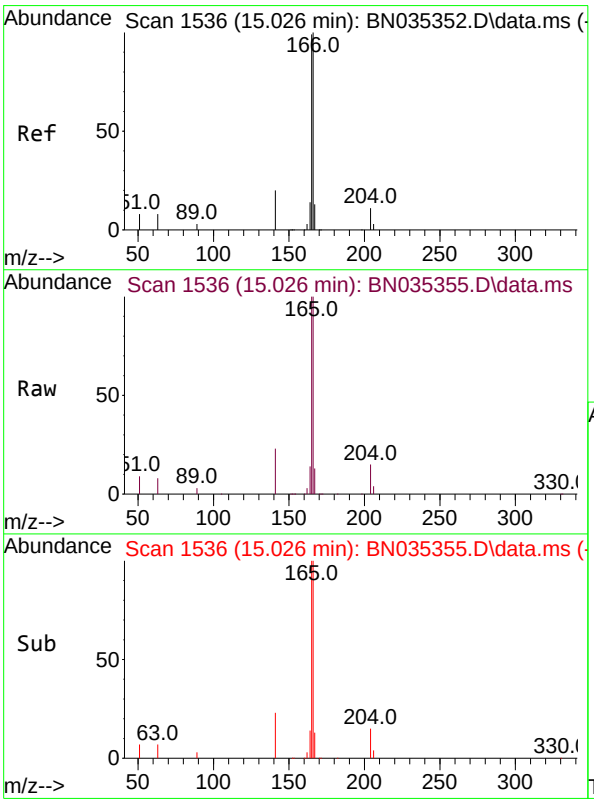
#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 38676

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	59.2	49.0	73.6

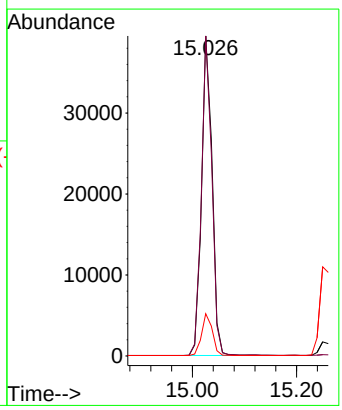


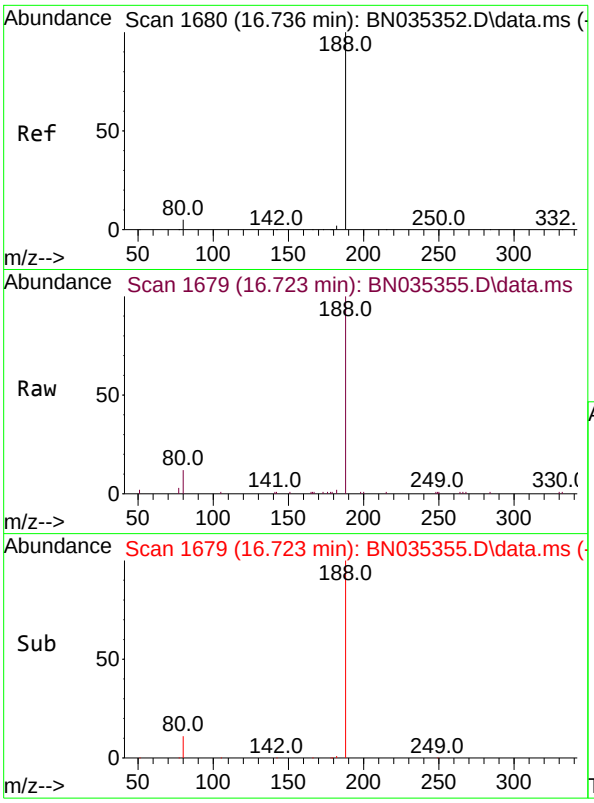


#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.3	10.8	16.2



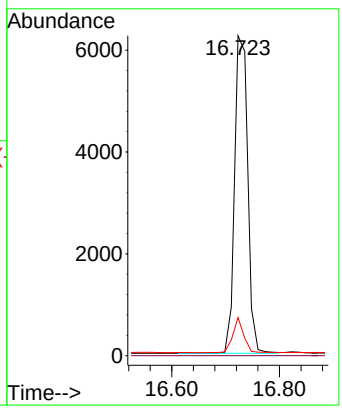


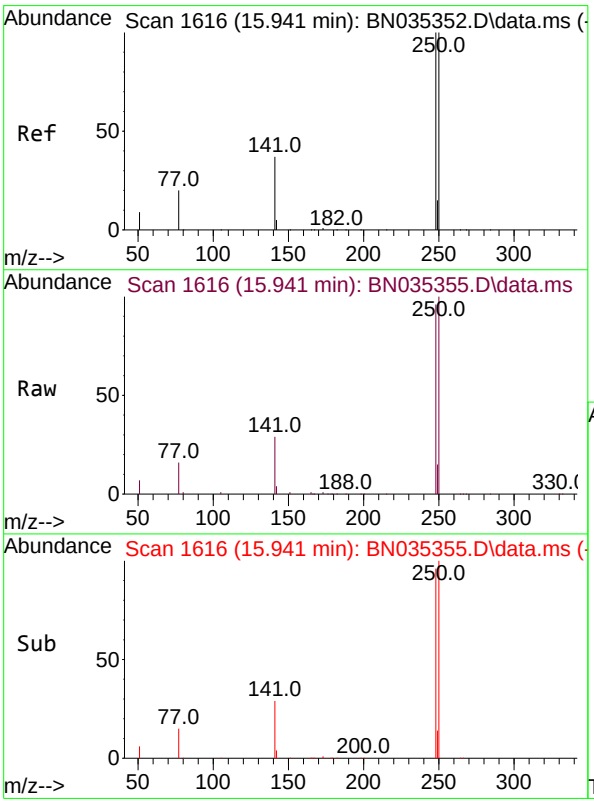
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 10513

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

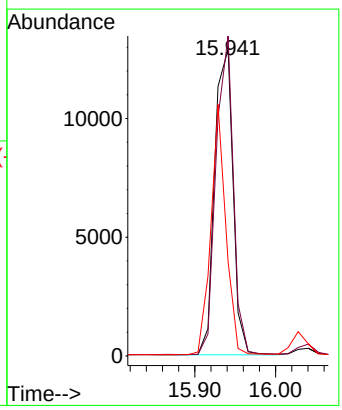


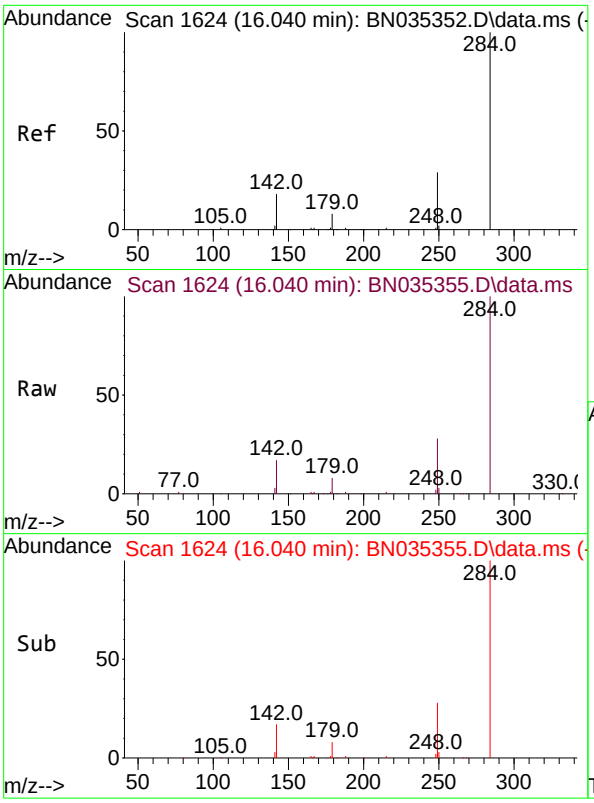


#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

Ion	Ratio	Lower	Upper
248	100		
250	104.3	80.6	120.8
141	30.7	31.5	47.3#



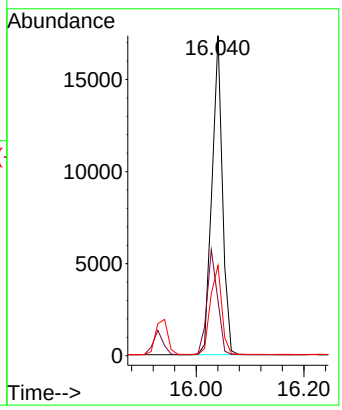


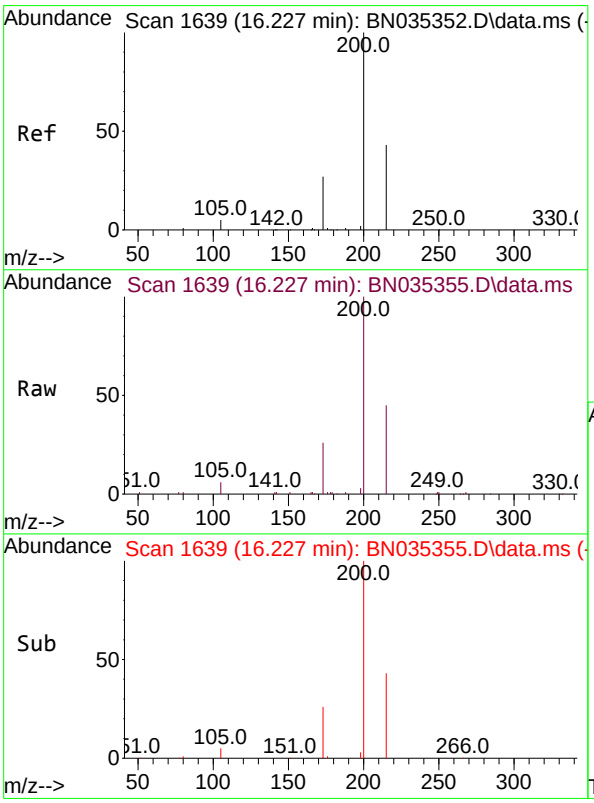
#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:284 Resp: 23349

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.2	24.6	36.8

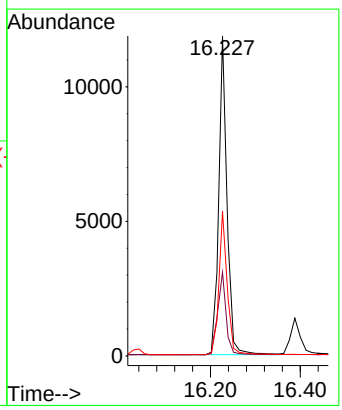


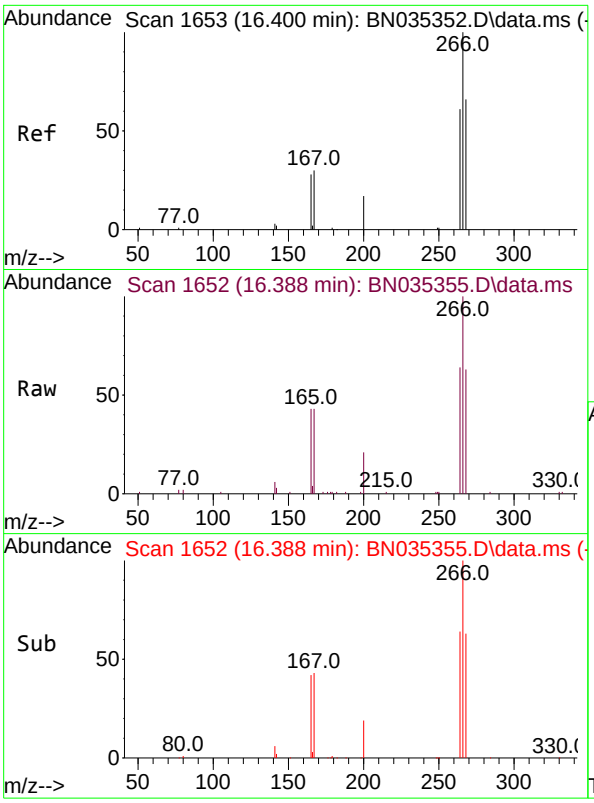


#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

Ion	Ratio	Lower	Upper
200	100		
173	26.2	24.1	36.1
215	45.1	36.9	55.3



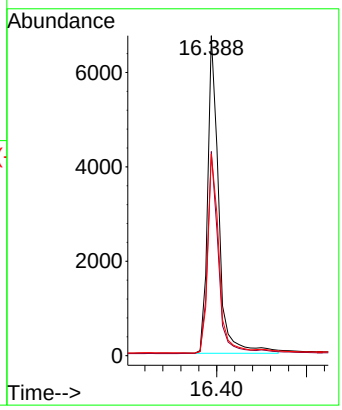


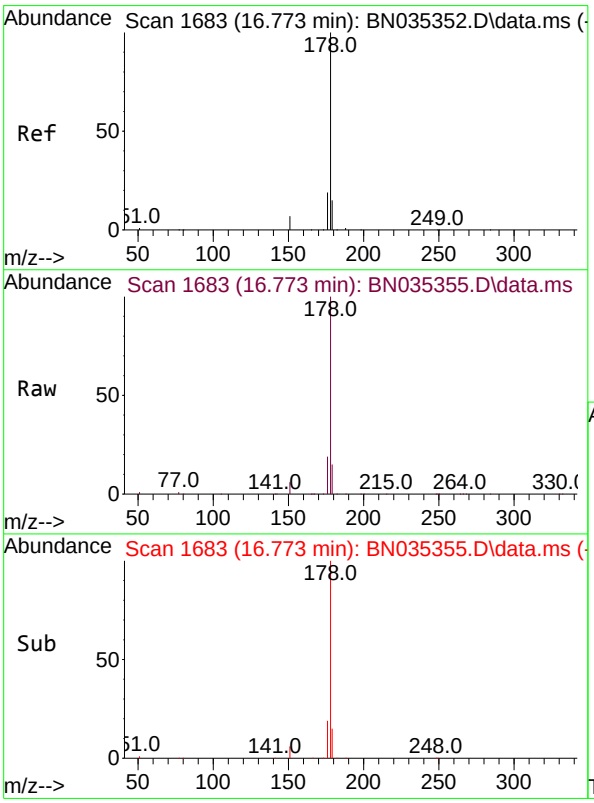
#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:266 Resp: 11439

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.4	43.3	64.9

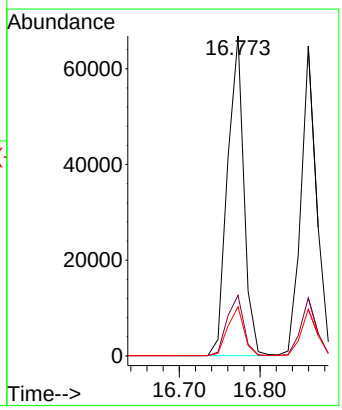


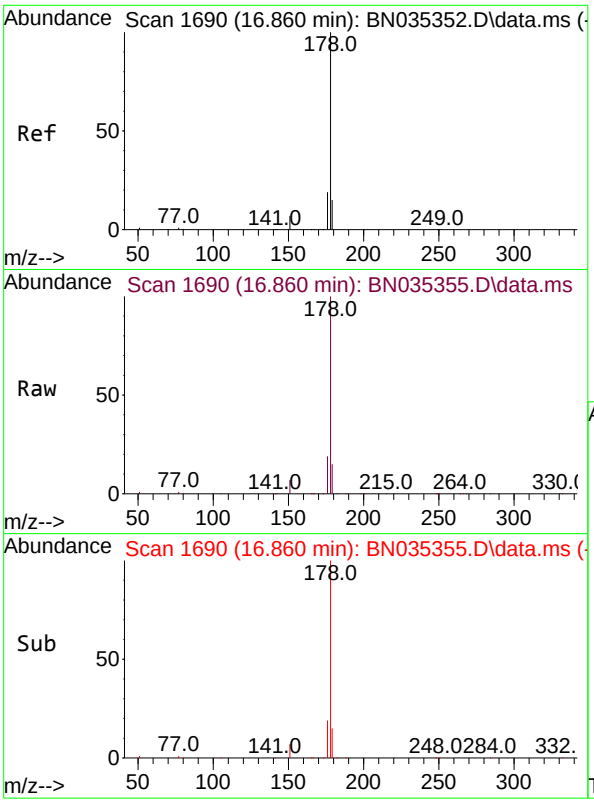


#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.3	18.5



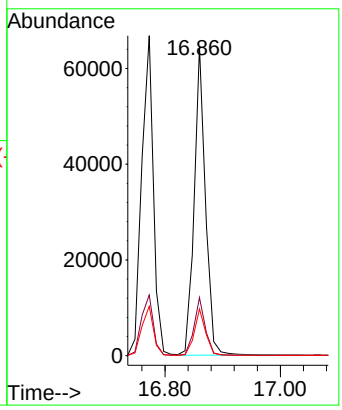


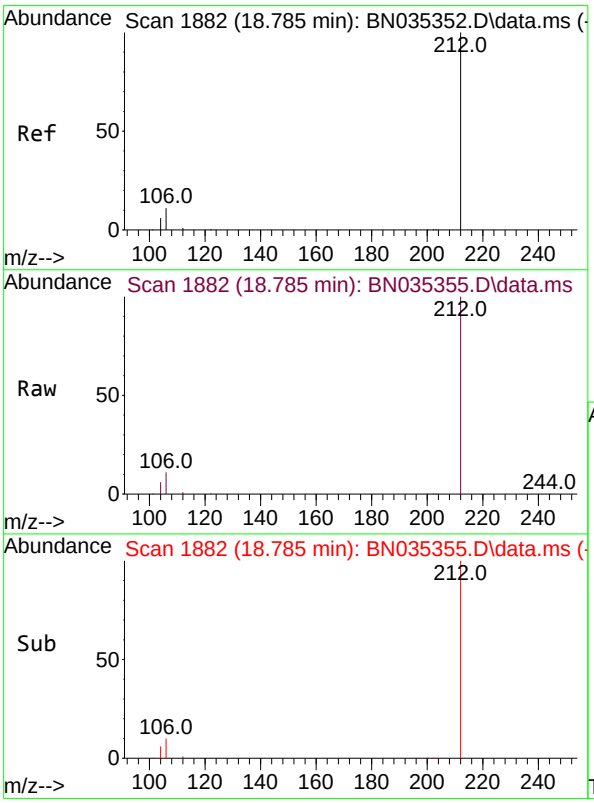
#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 87657

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.1	12.6	18.8

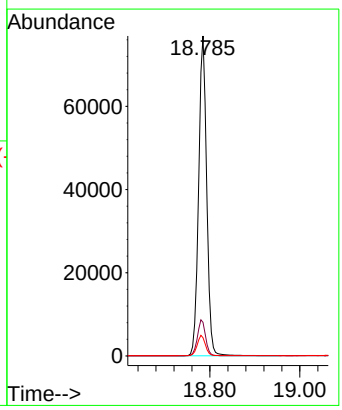


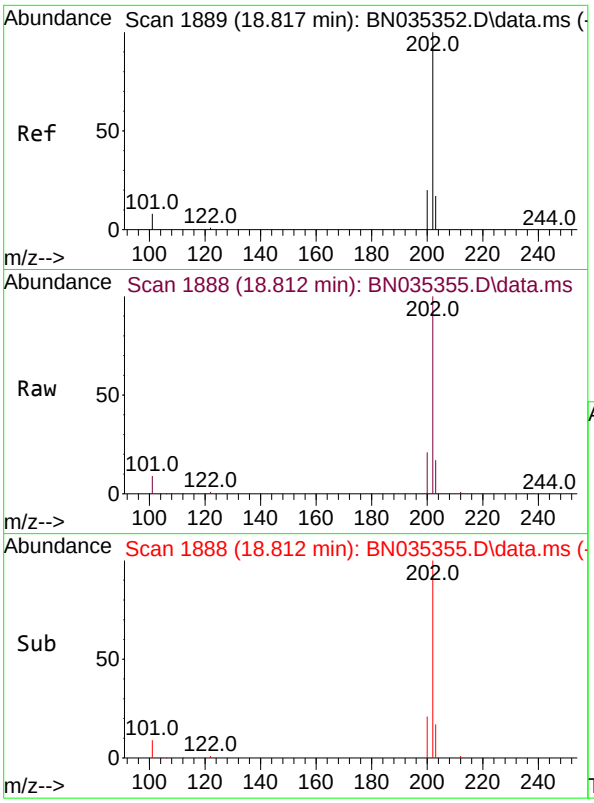


#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9



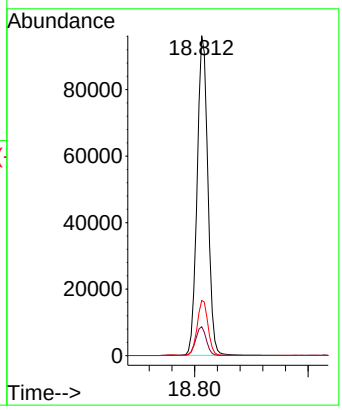


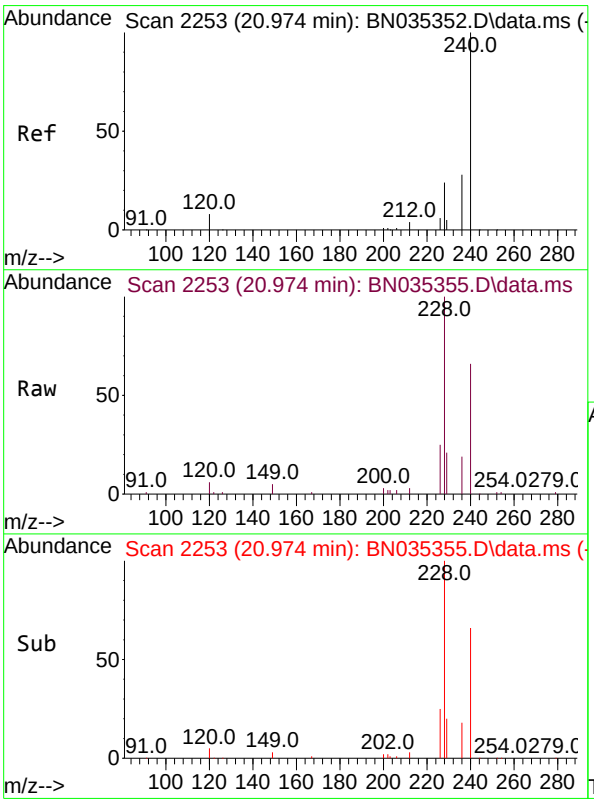
#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 125901

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.3	13.7	20.5

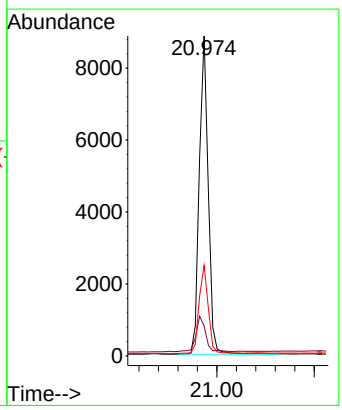


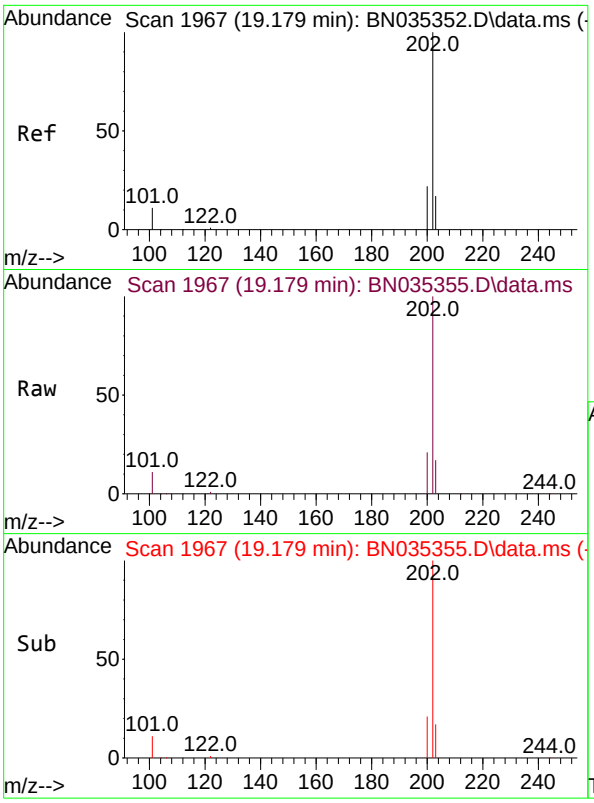


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.3	22.9	34.3



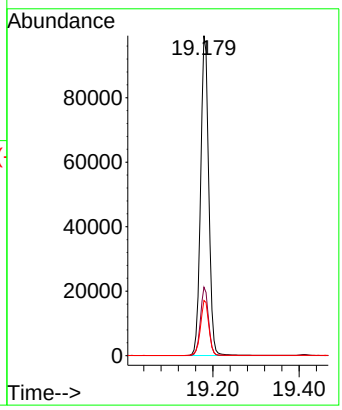


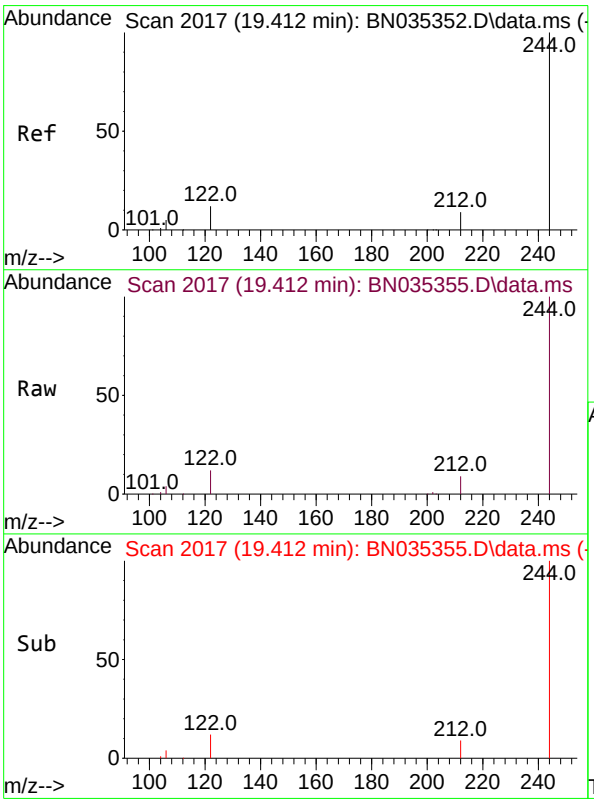
#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 129105

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

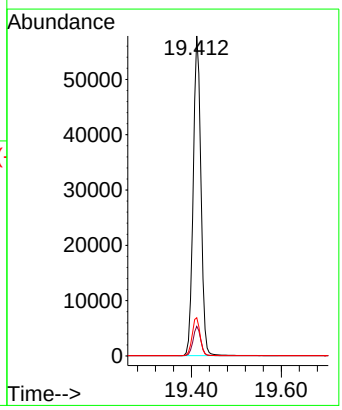


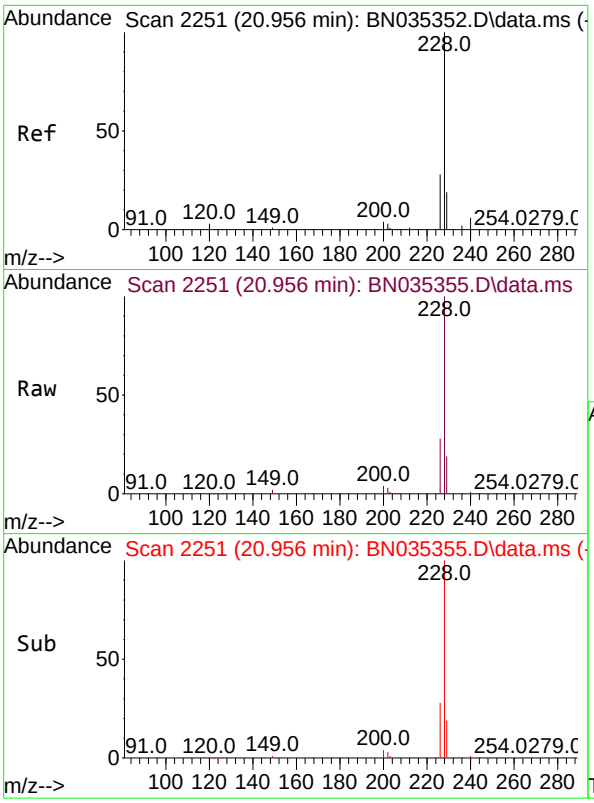


#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.0	10.3	15.5



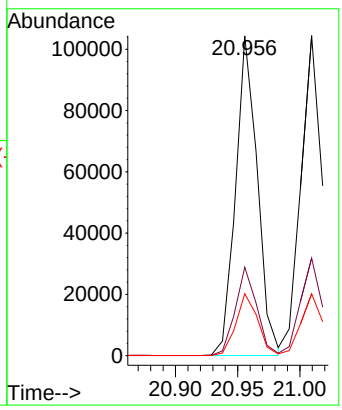


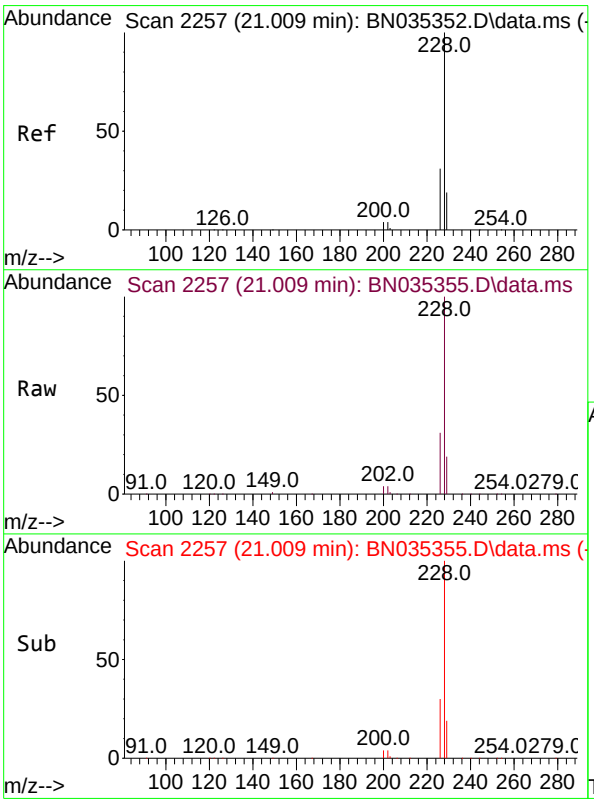
#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 126517

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	19.4	15.8	23.8

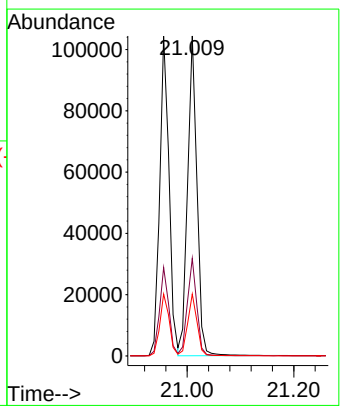


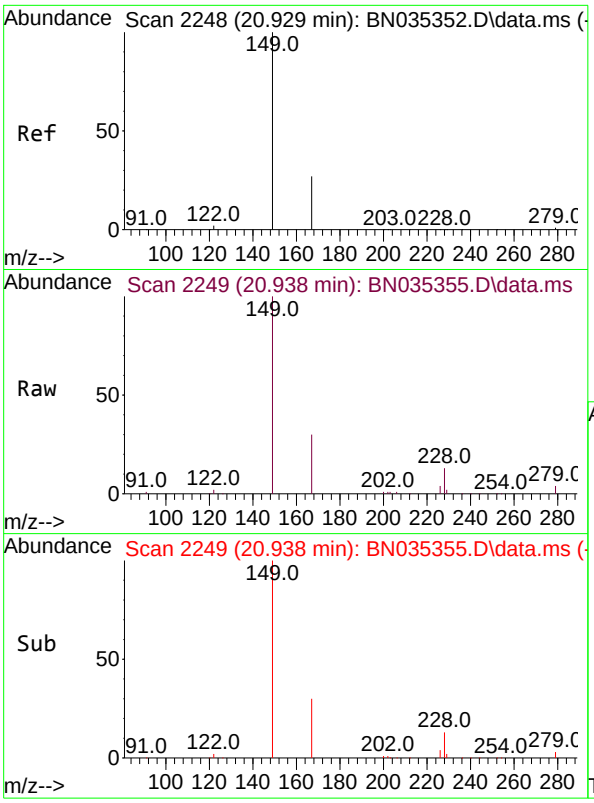


#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.4	15.9	23.9



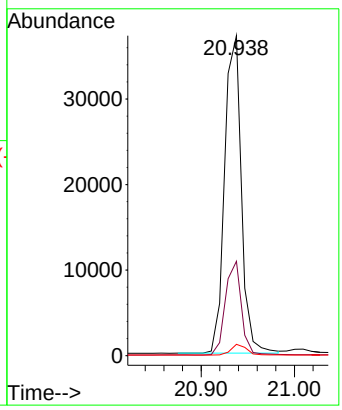


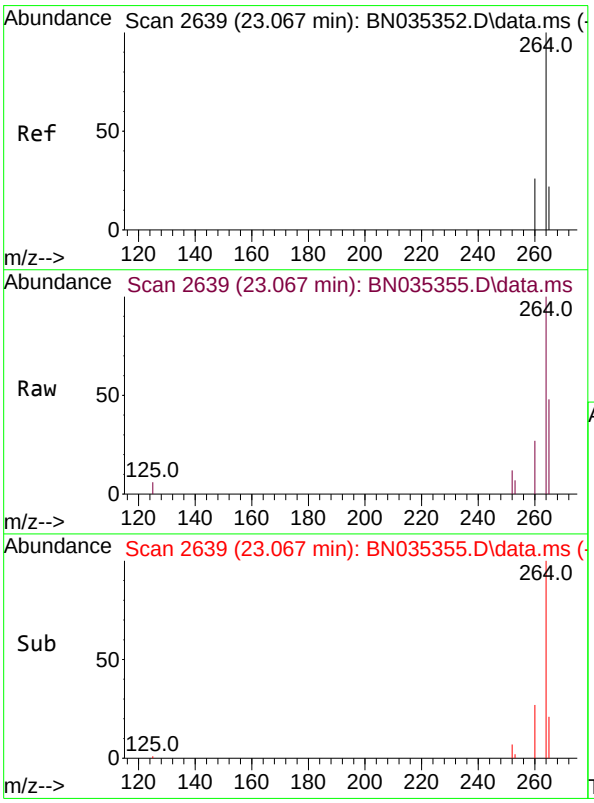
#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:149 Resp: 46251

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.4
279	3.2	2.7	4.1

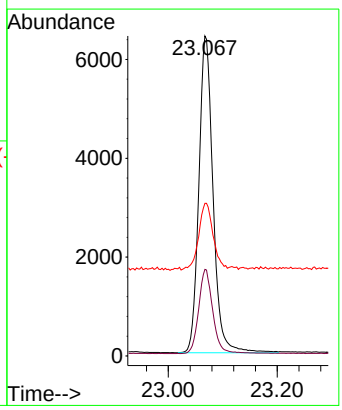


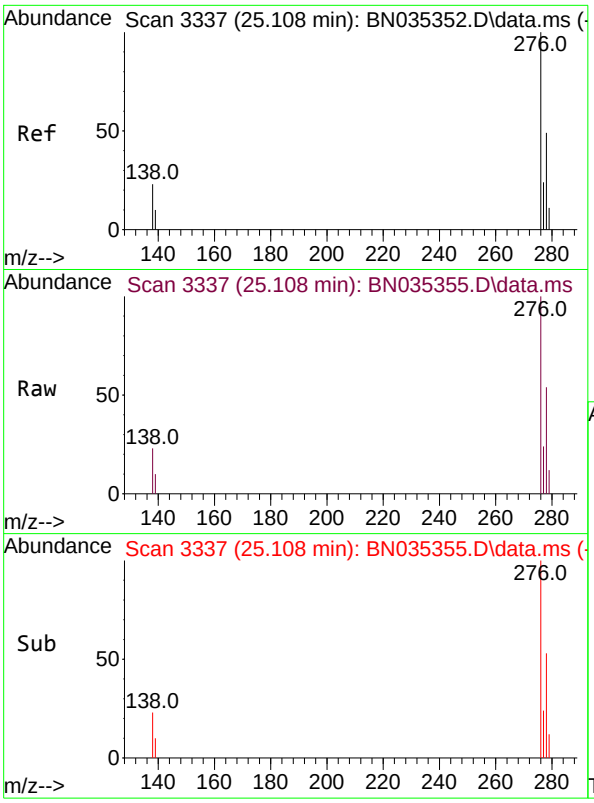


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	47.7	40.2	60.4



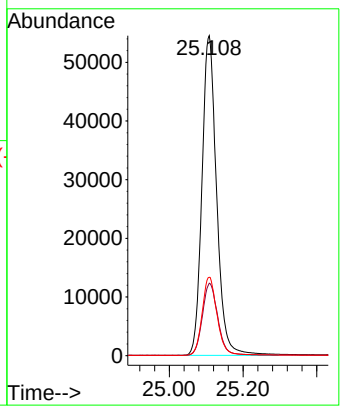


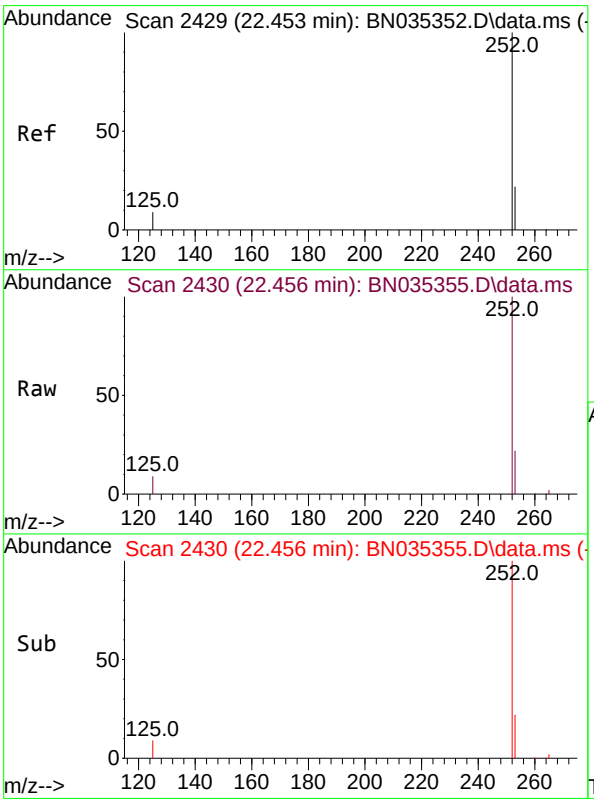
#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 150433

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	24.9	19.8	29.6

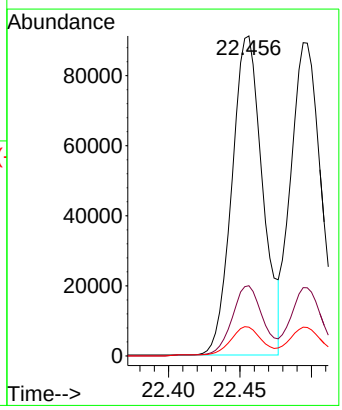


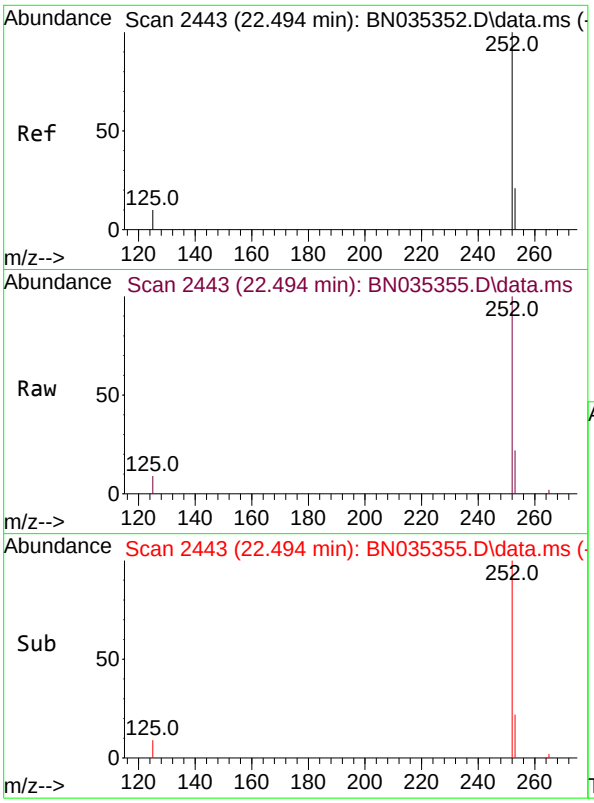


#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



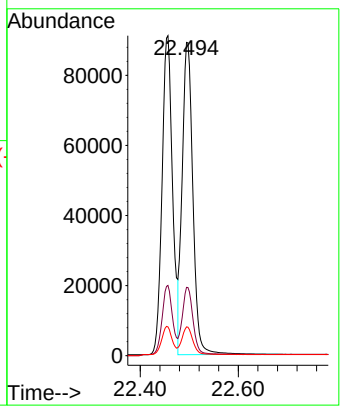


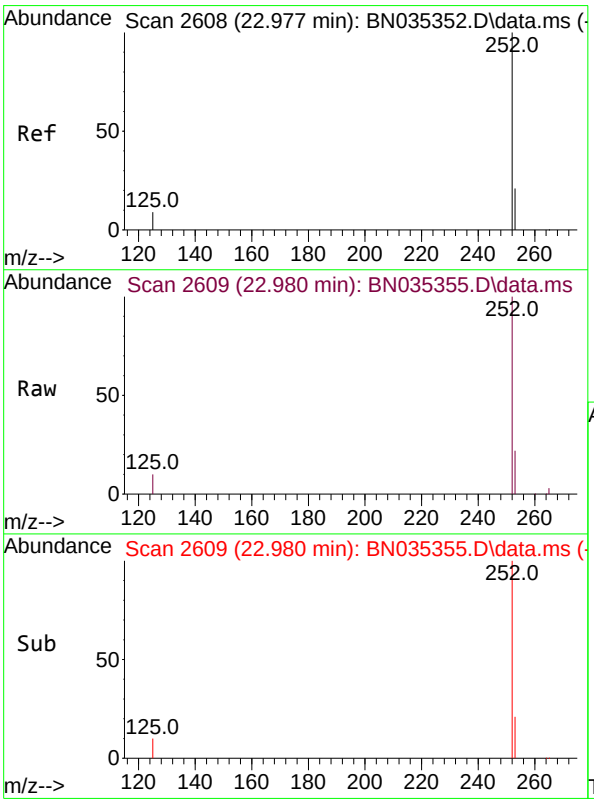
#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 134789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	9.2	10.2	15.4#

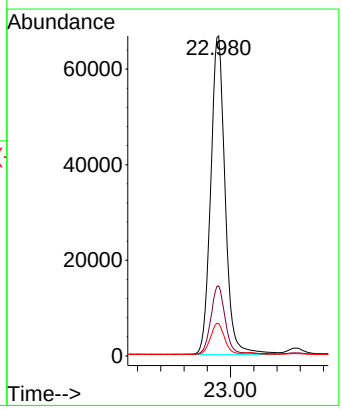


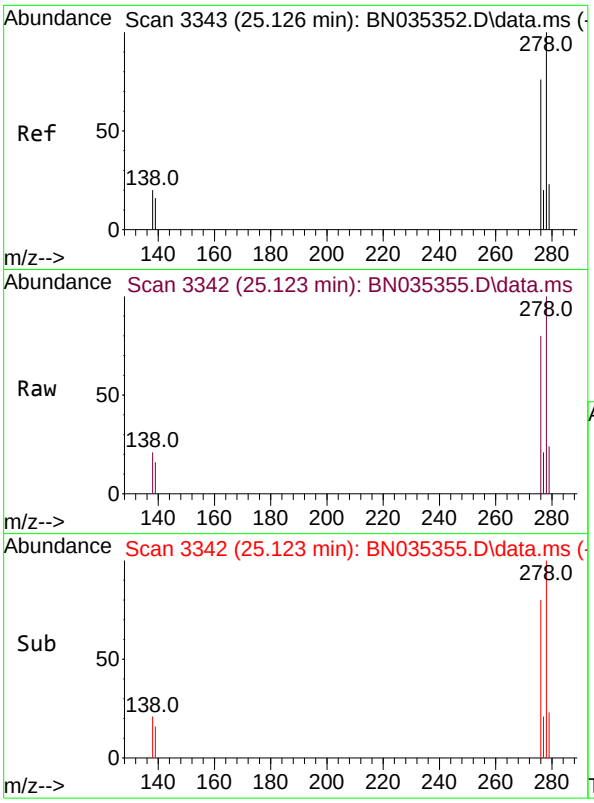


#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	10.1	10.9	16.3#



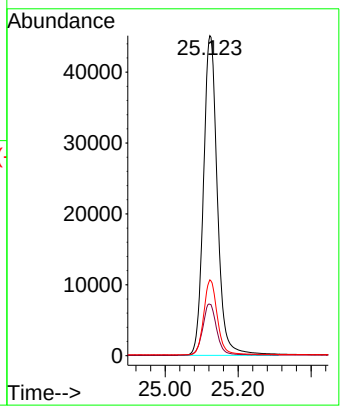


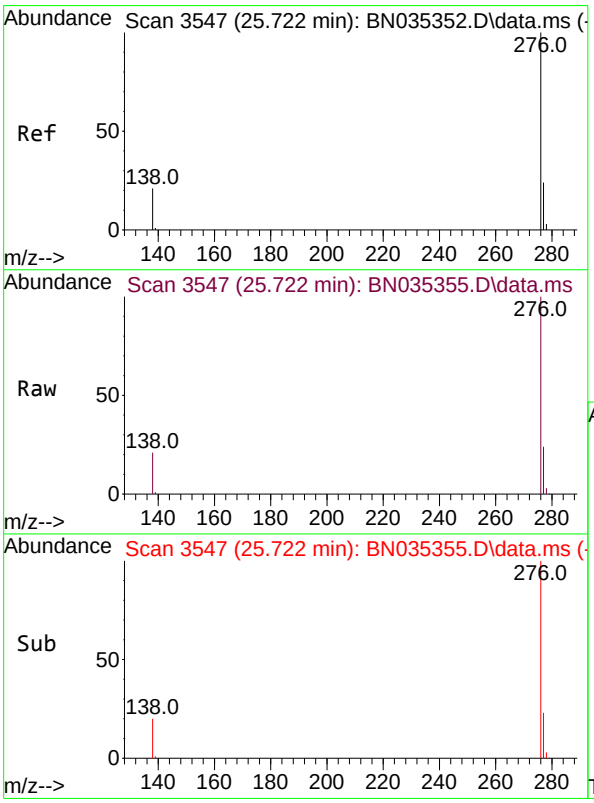
#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:278 Resp: 119216

Ion	Ratio	Lower	Upper
278	100		
139	16.1	14.2	21.4
279	23.7	20.5	30.7

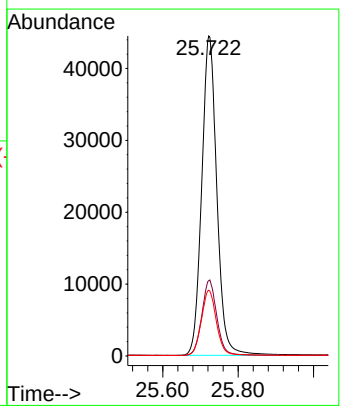




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	20.6	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng		0.00
35) Perylene-d12	23.067	264	12000	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	26472	4.637	ng		0.00
5) Phenol-d6	6.513	99	34560	4.828	ng		0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng		0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng		0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng		99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	#	96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng		99
9) Naphthalene	10.105	128	77668	5.123	ng		97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	#	100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng		98
16) Acenaphthylene	13.679	152	97129	5.209	ng		99
17) Acenaphthene	14.031	154	62170	5.088	ng		98
18) Fluorene	15.026	166	88648	4.932	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	#	94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng		100
23) Atrazine	16.227	200	25034	4.179	ng		96
24) Pentachlorophenol	16.388	266	19691	6.083	ng		86
25) Phenanthrene	16.773	178	147357	5.343	ng		100
26) Anthracene	16.860	178	139399	5.503	ng		99
28) Fluoranthene	18.812	202	199850	5.270	ng		99
30) Pyrene	19.179	202	206018	5.370	ng		100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng		99
33) Chrysene	21.009	228	204475	5.146	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng		99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	#	94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	#	93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	#	92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng		96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng		97

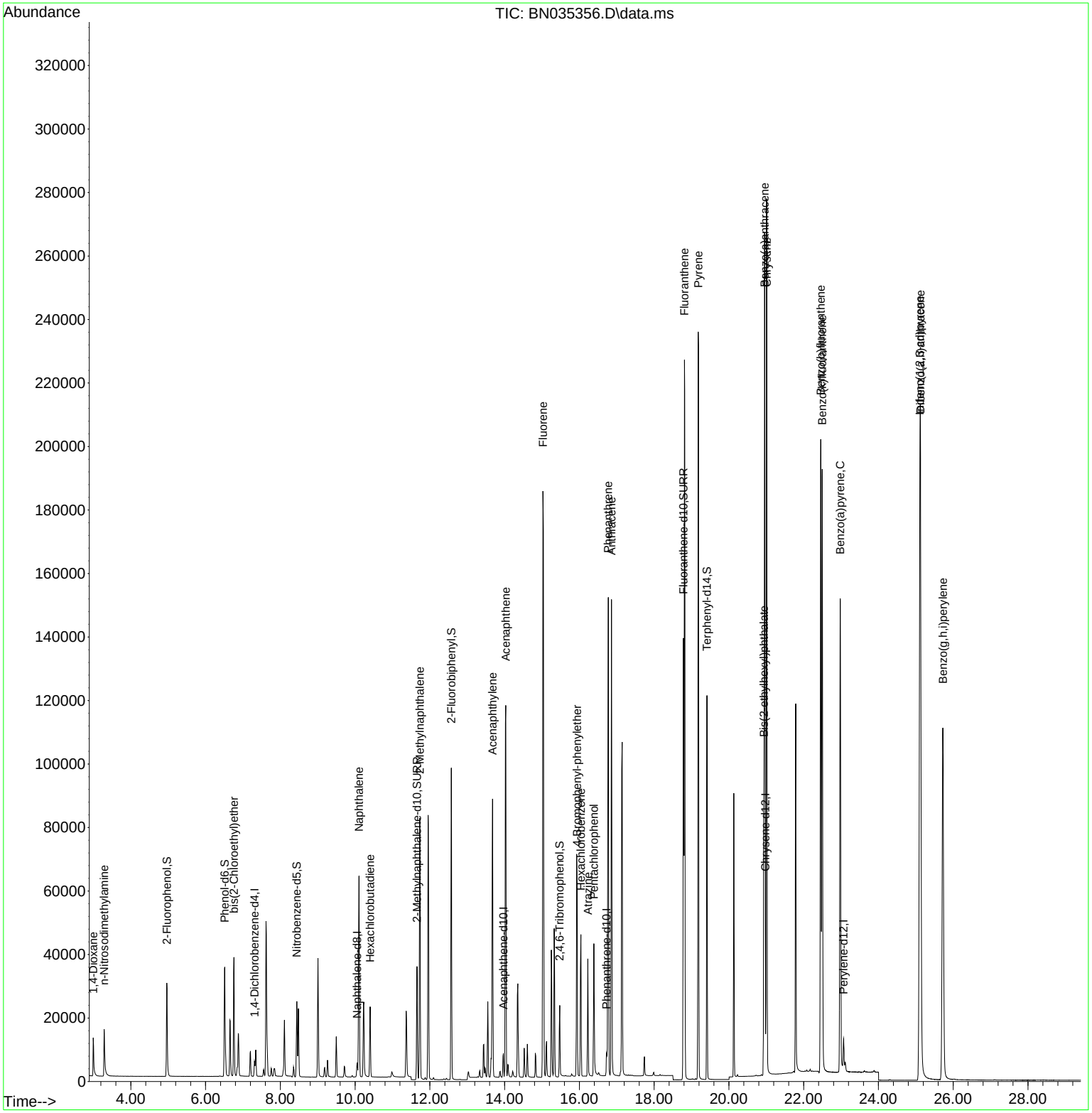
(#) = qualifier out of range (m) = manual integration (+) = signals summed

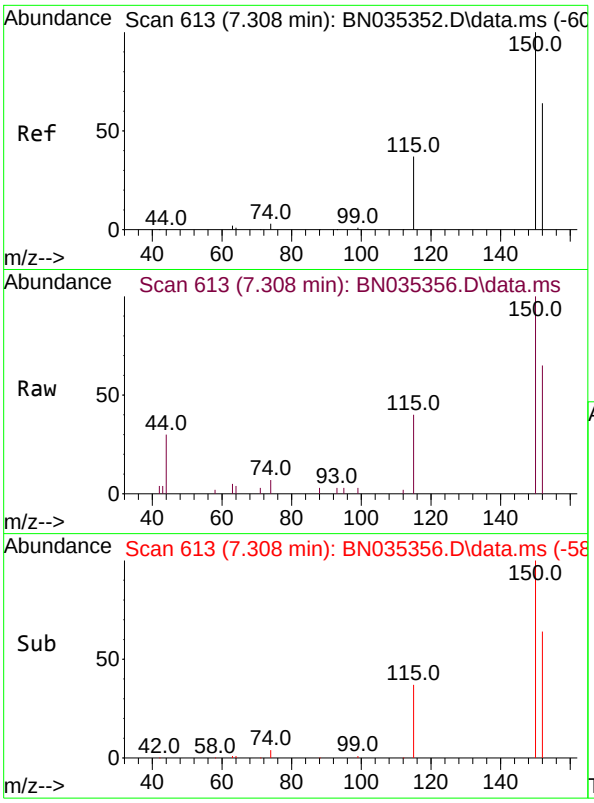
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



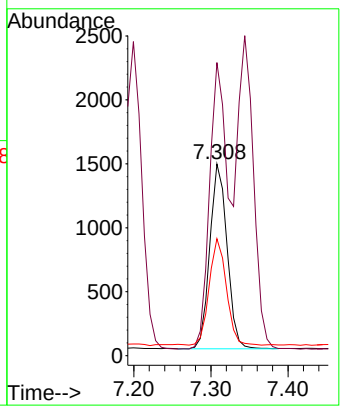


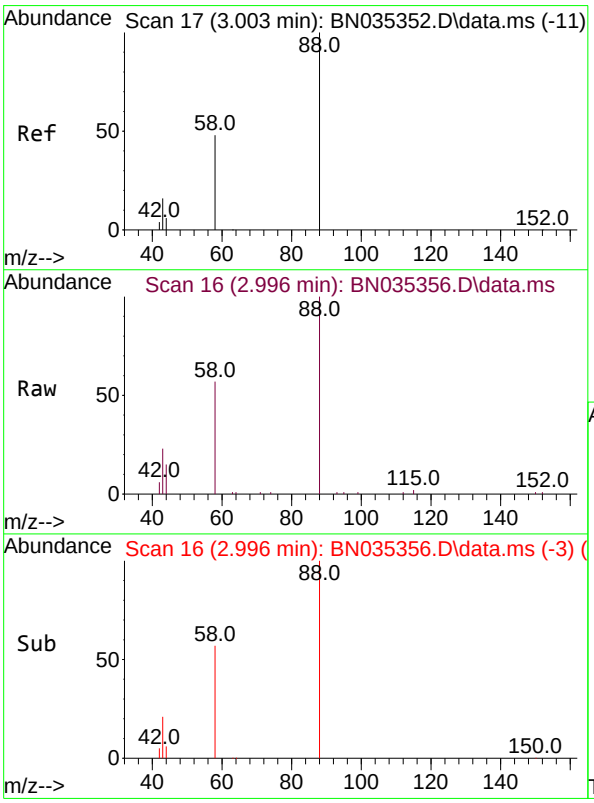
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2249

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.0	186.0
115	61.0	49.6	74.4

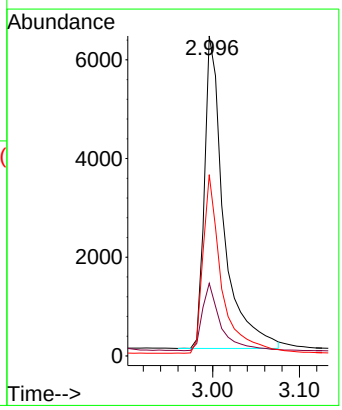


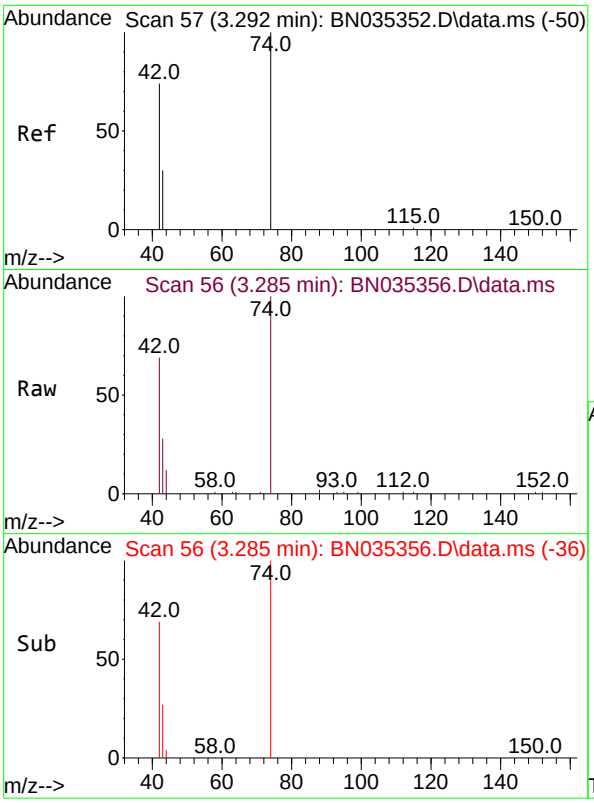


#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.8	44.5	66.7



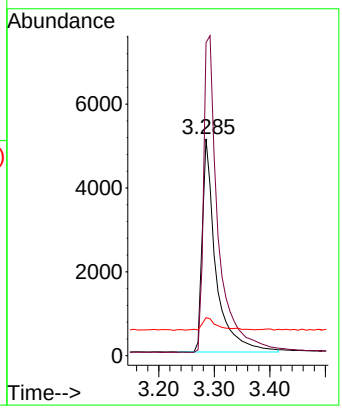


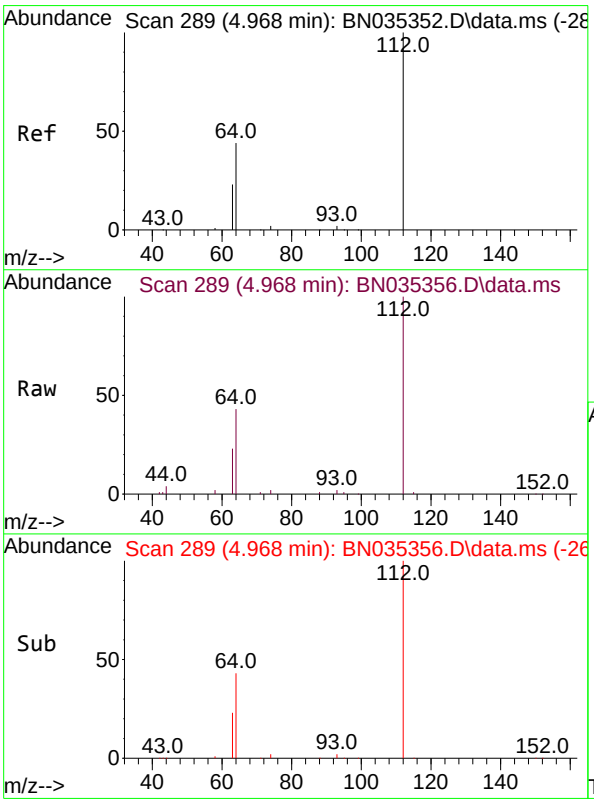
#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

Ion	Ratio	Lower	Upper
42	100		
74	161.2	124.9	187.3
44	6.7	2.2	3.4#

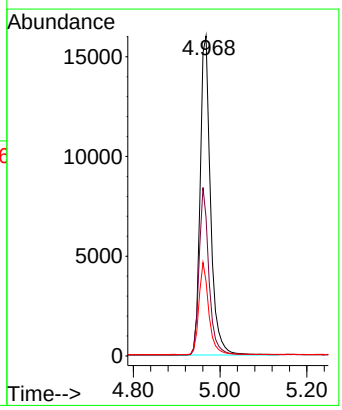


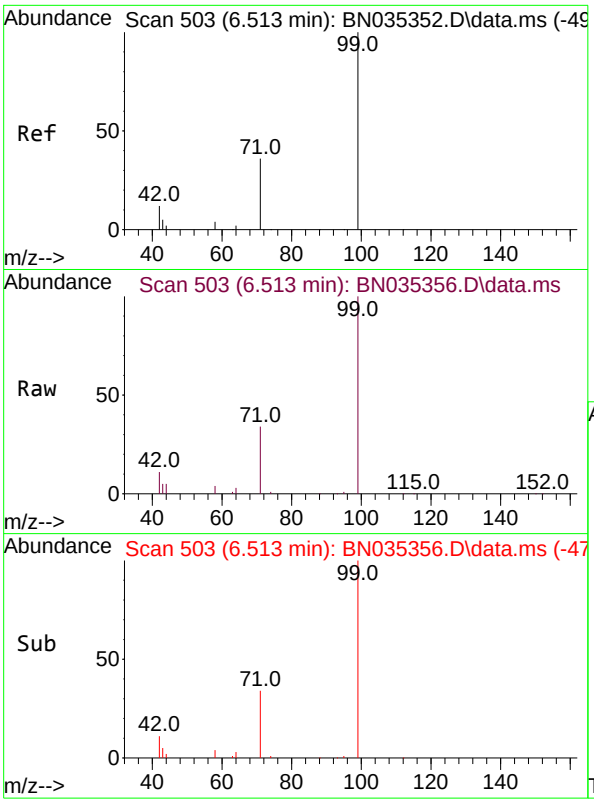


#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.4	21.0	31.6



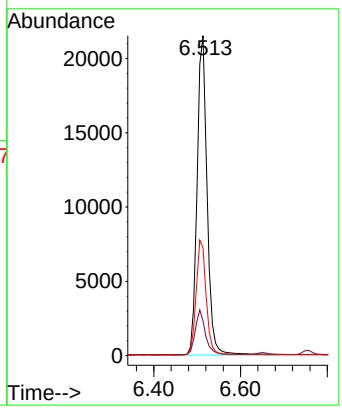


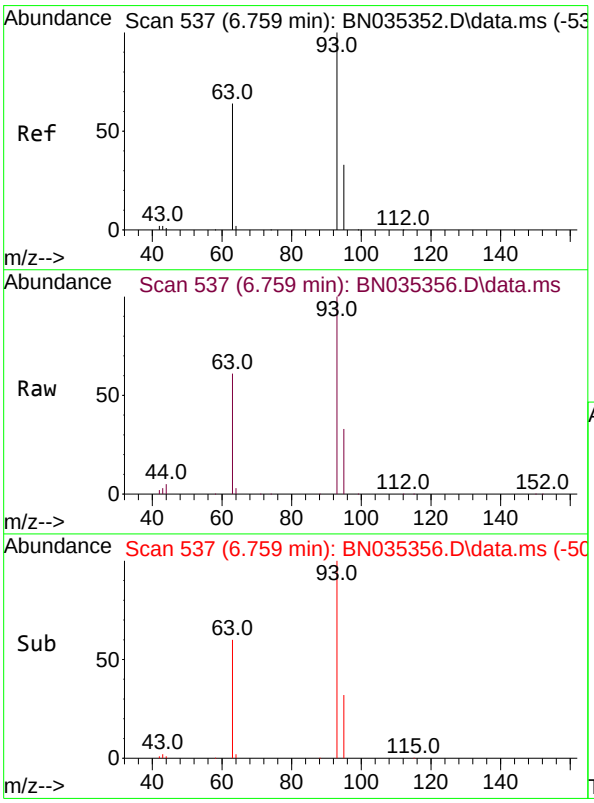
#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.4	29.3	43.9

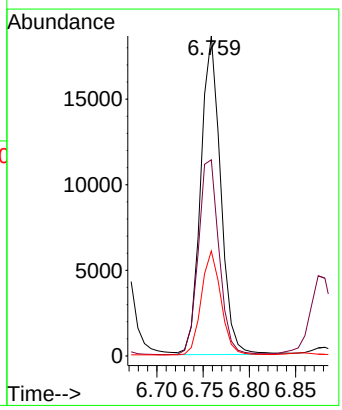


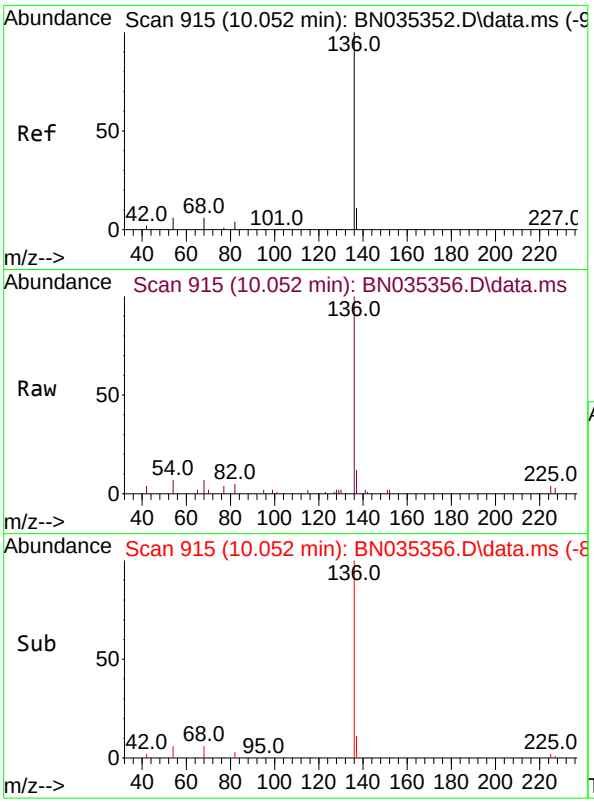


#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

Ion	Ratio	Lower	Upper
93	100		
63	63.7	50.4	75.6
95	32.1	25.7	38.5



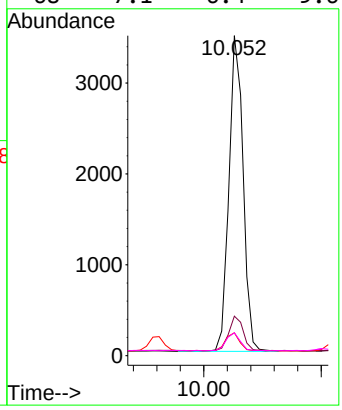


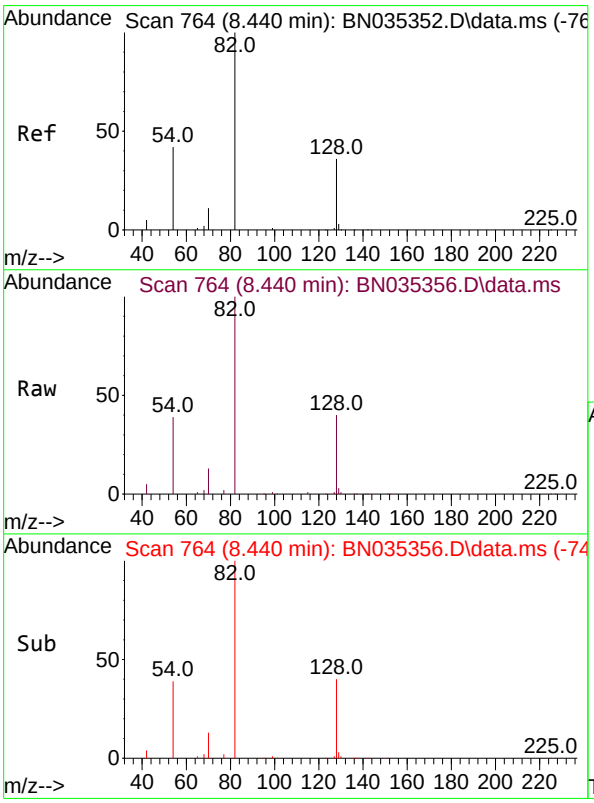
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5807

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6

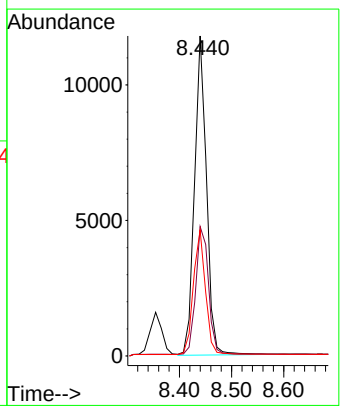


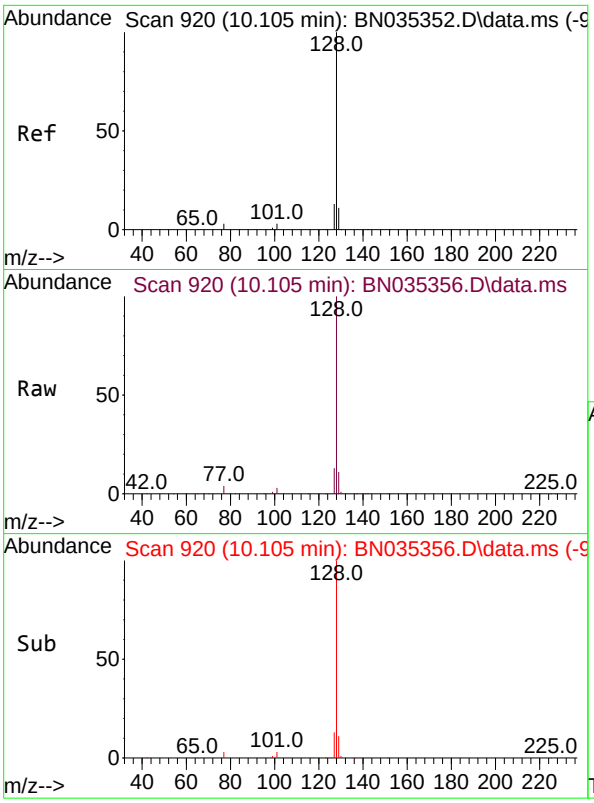


#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1



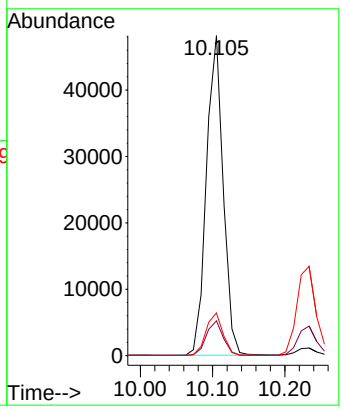


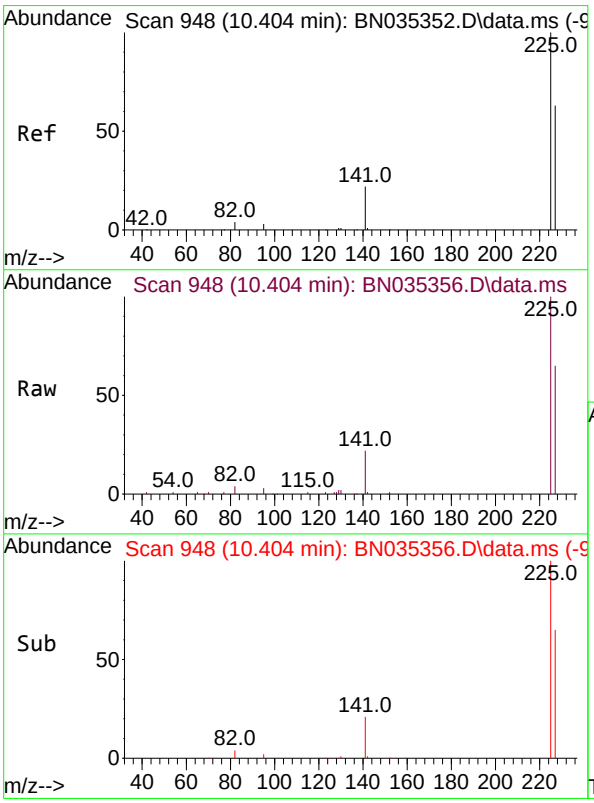
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 77668

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.4	11.4	17.2

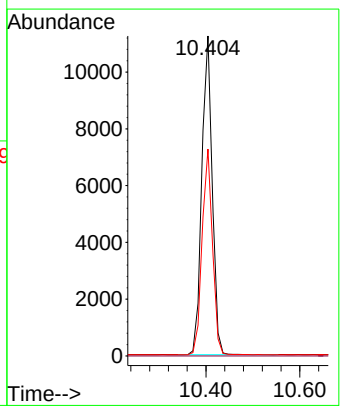


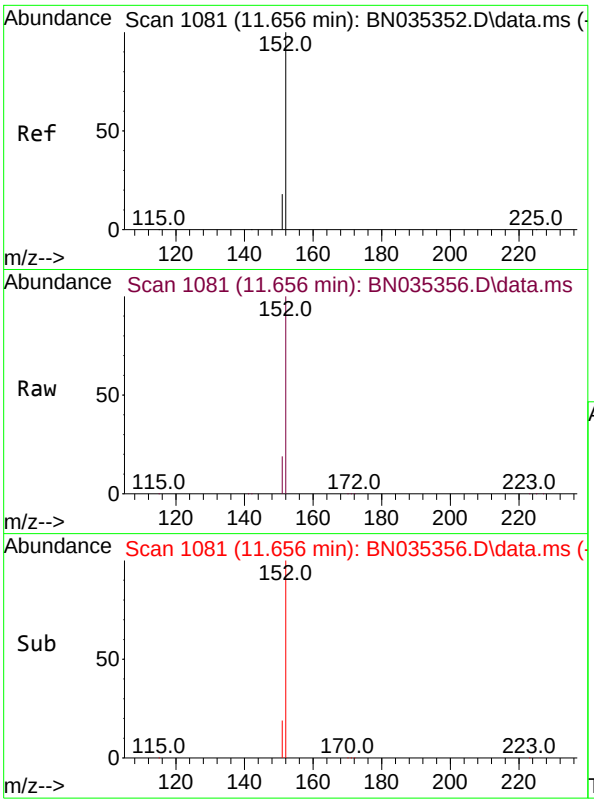


#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



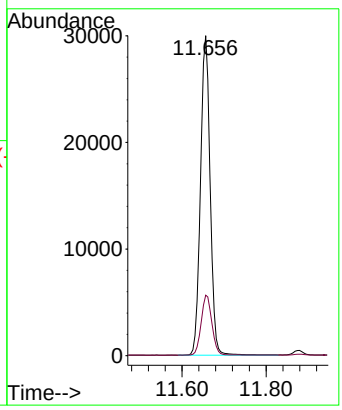


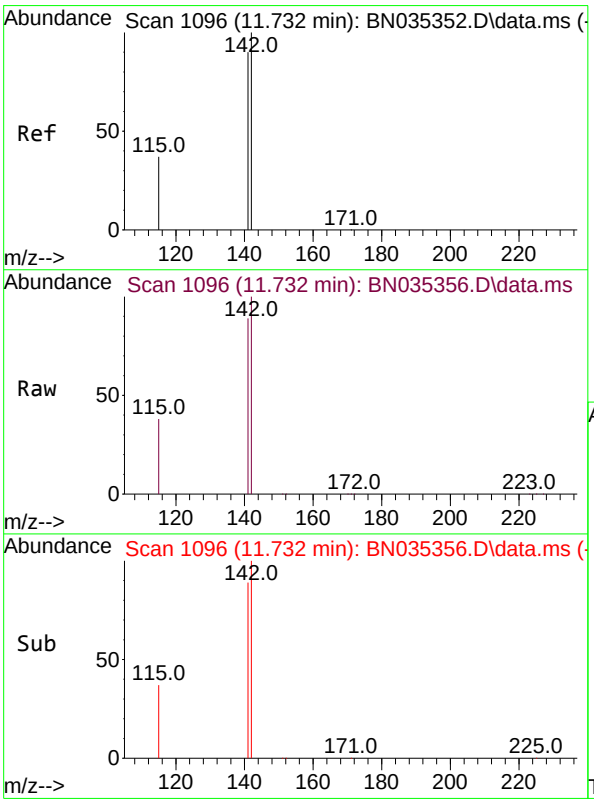
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

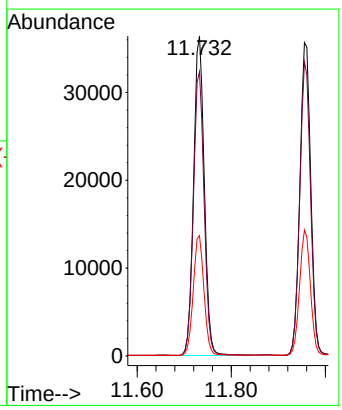


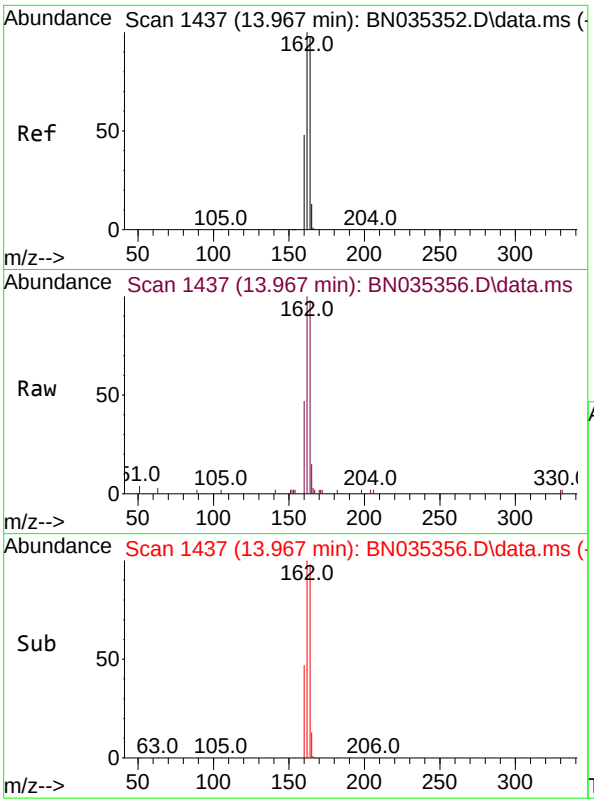


#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.6	31.4	47.0



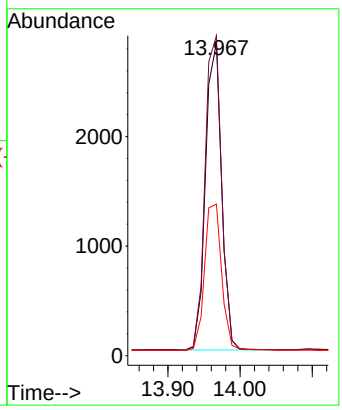


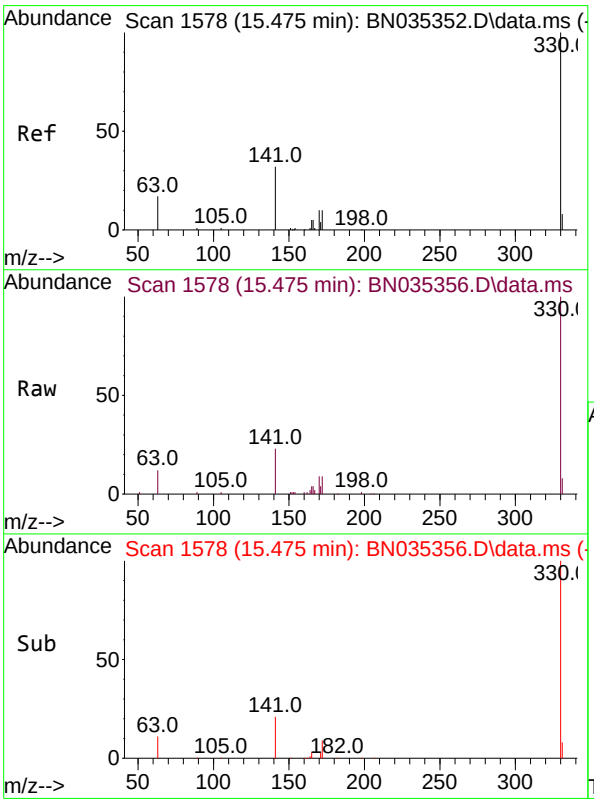
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4363

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1

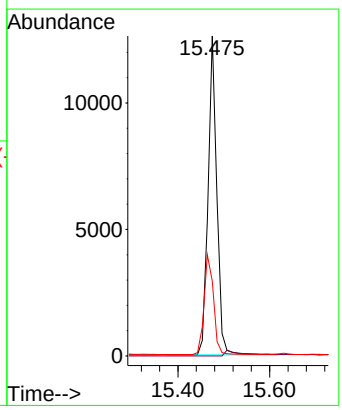


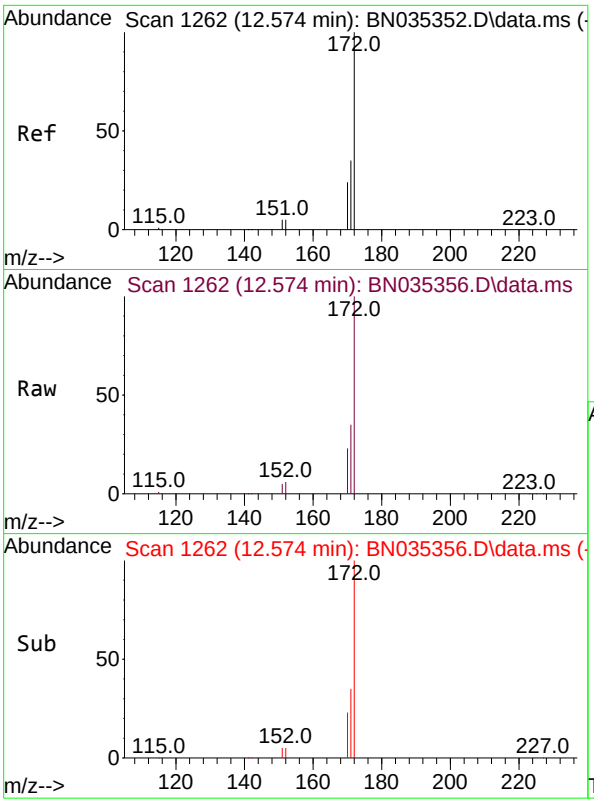


#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



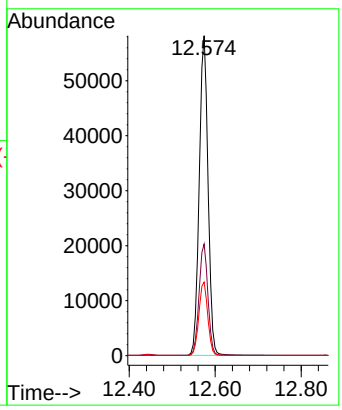


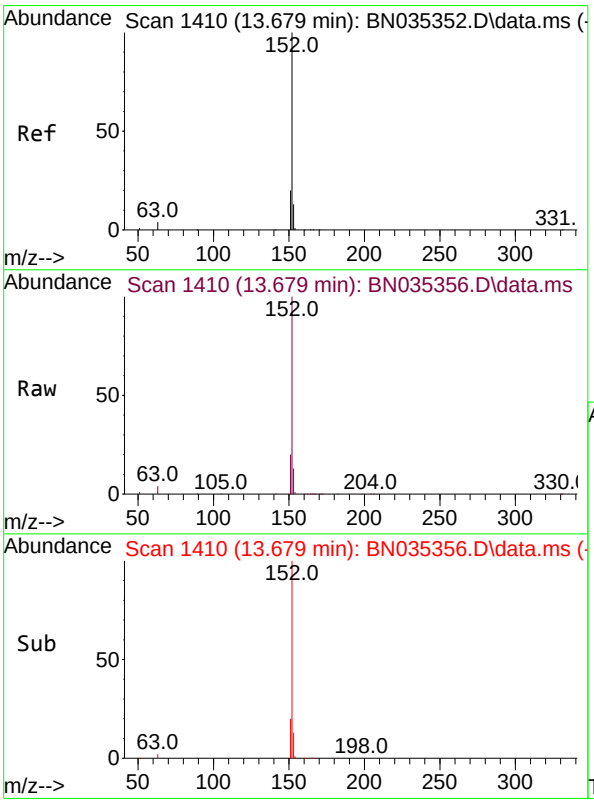
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82401

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	23.0	19.8	29.8

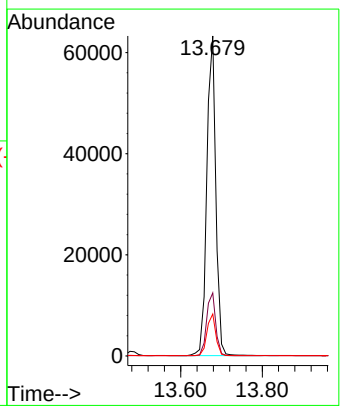


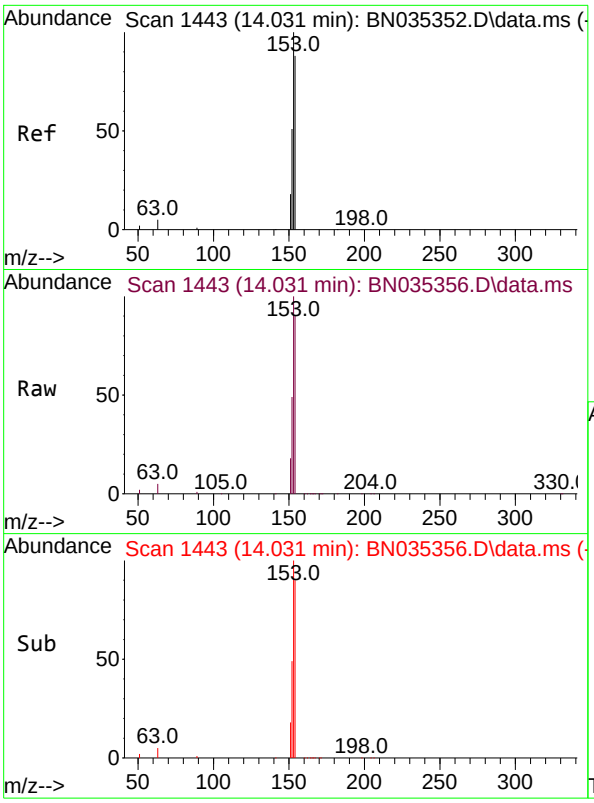


#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



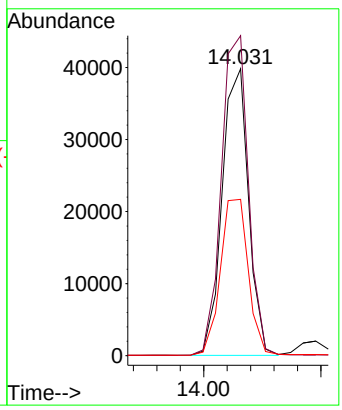


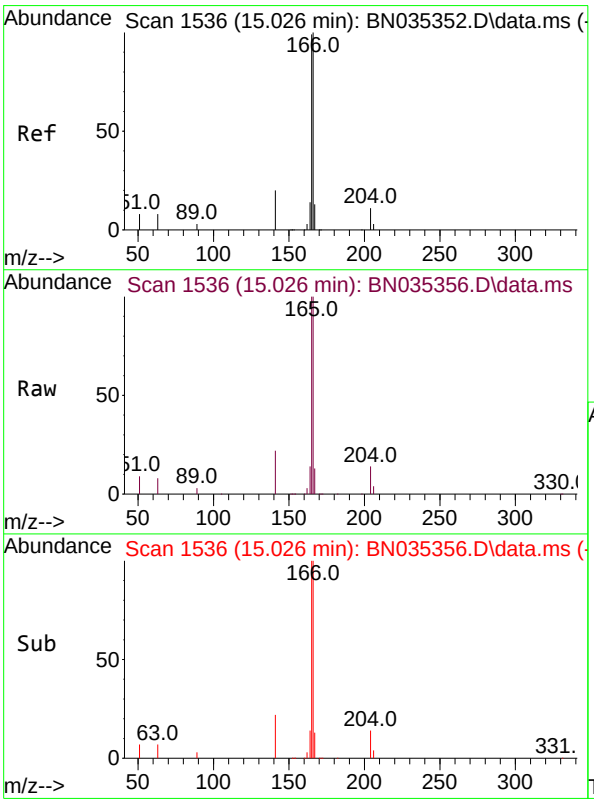
#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62170

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.1	49.0	73.6

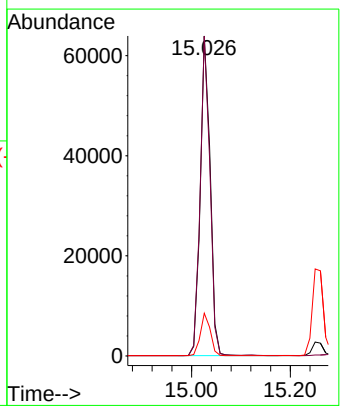


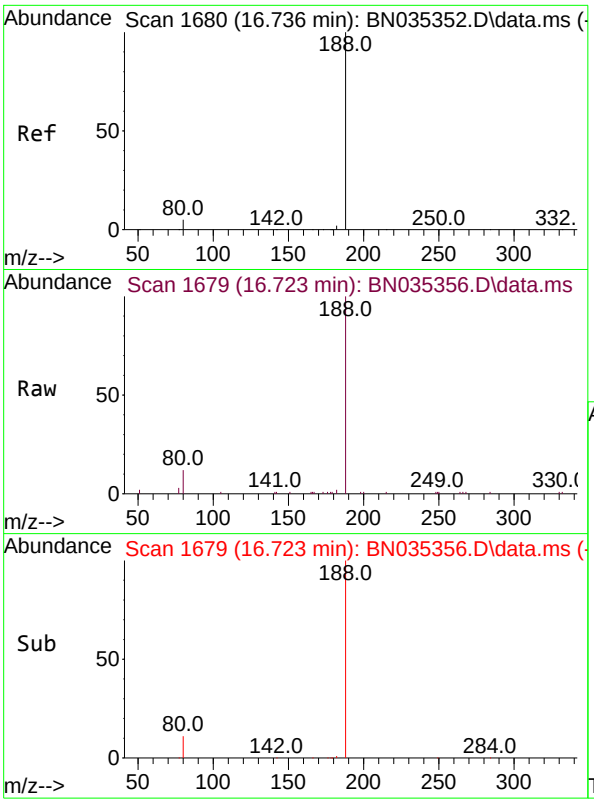


#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.4	10.8	16.2



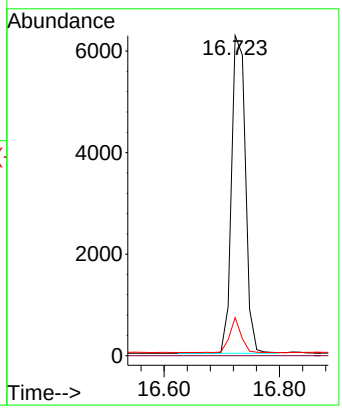


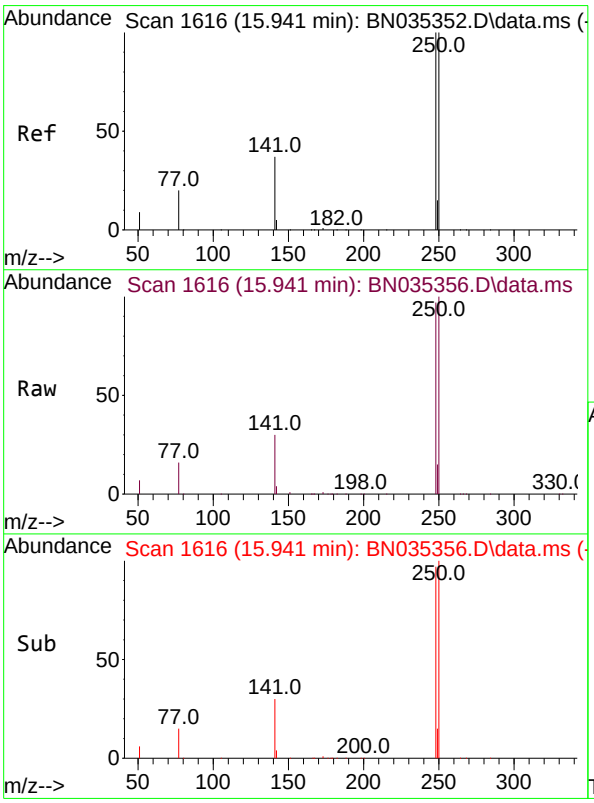
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 10479

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.9	4.6	6.8#

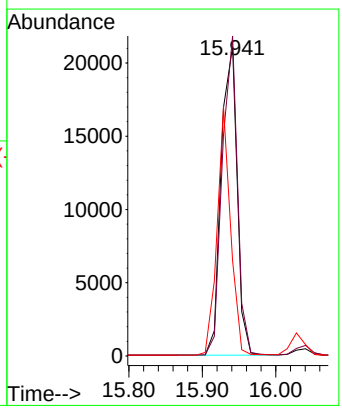


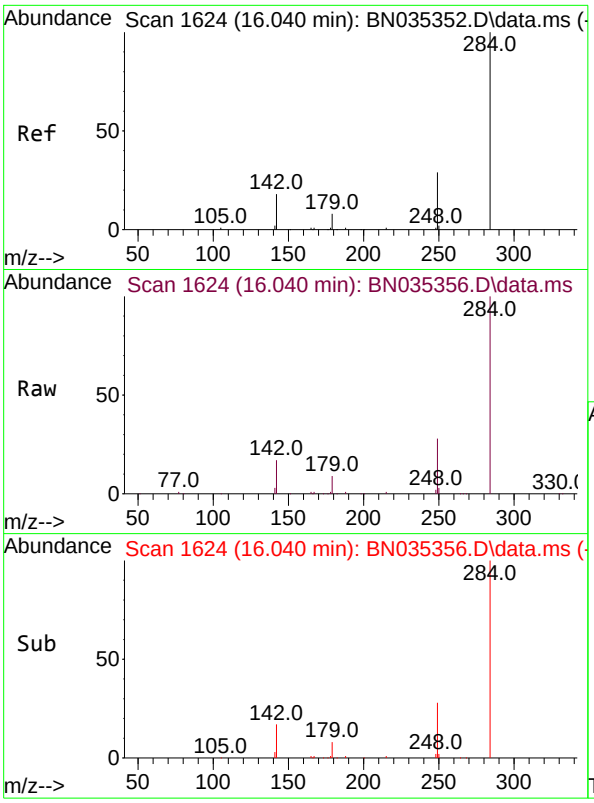


#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.6	120.8
141	30.8	31.5	47.3#



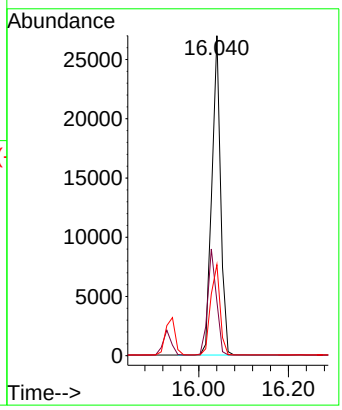


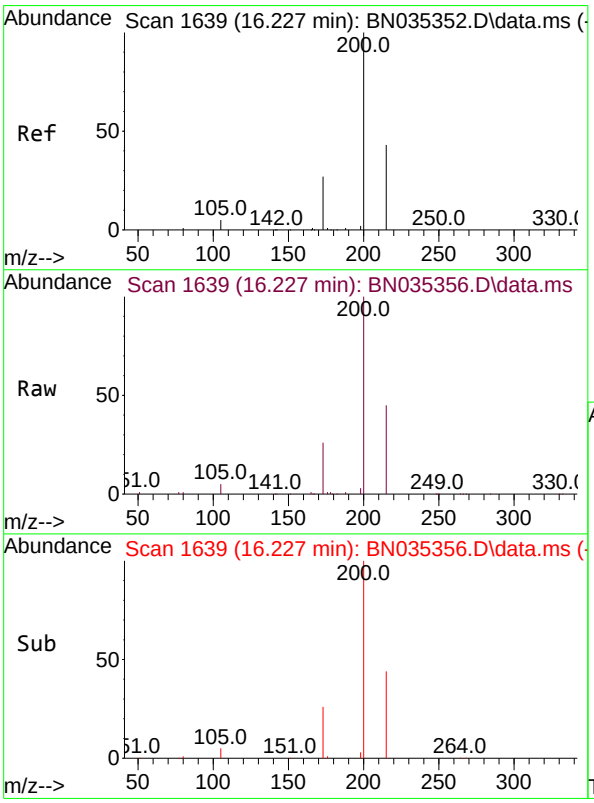
#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36315

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8

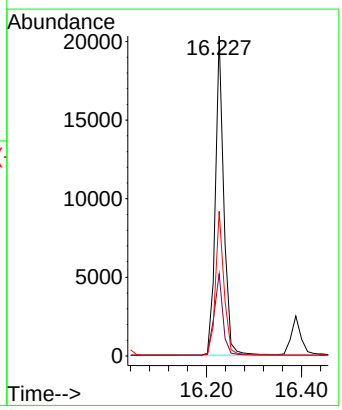


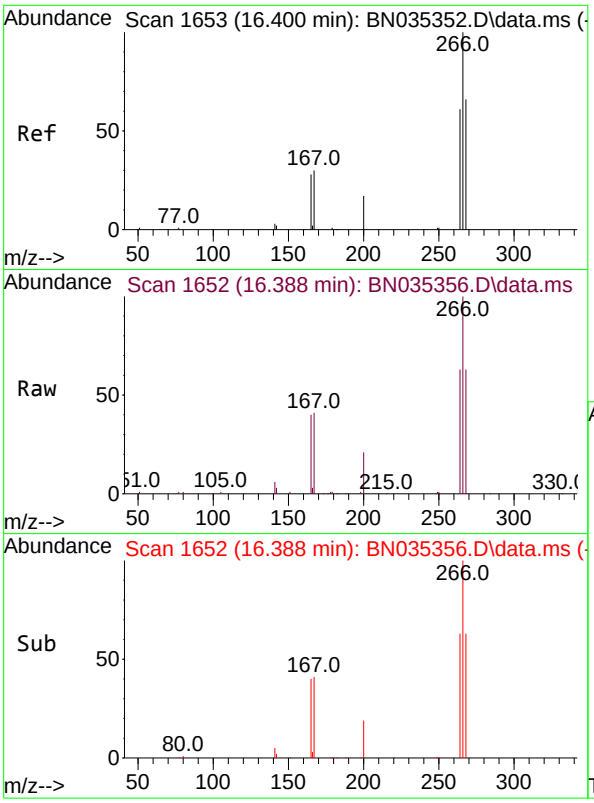


#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3



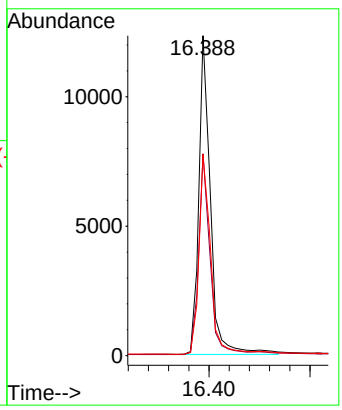


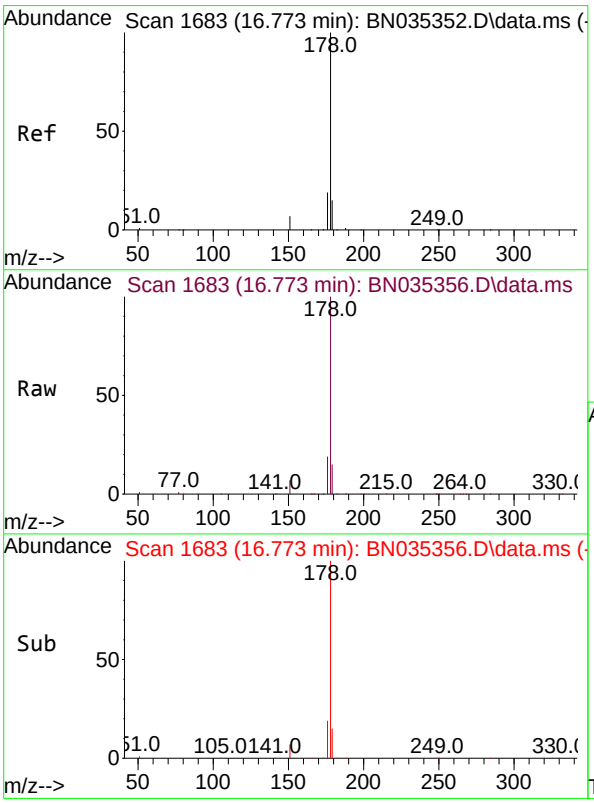
#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 19691

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.1	43.3	64.9

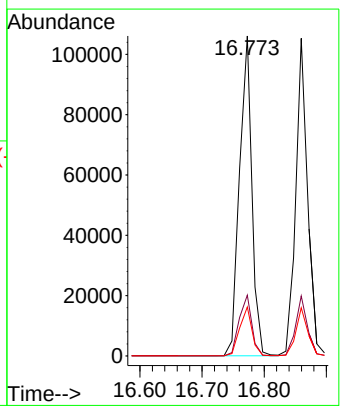


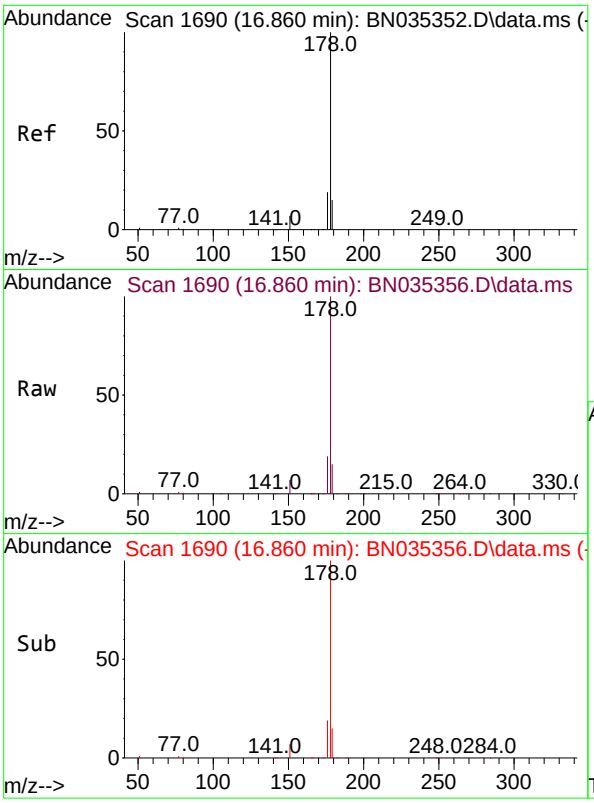


#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.3	18.5



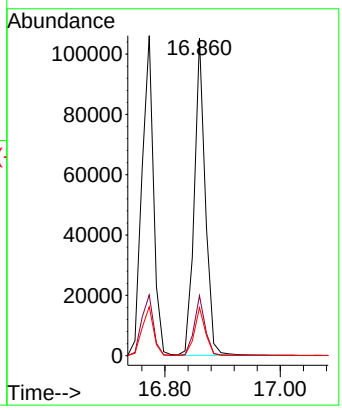


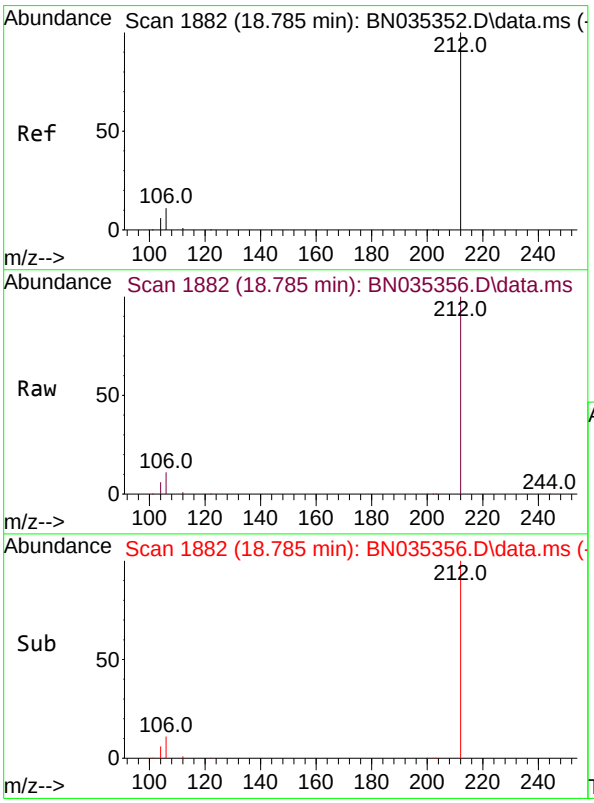
#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 139399

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.6	18.8

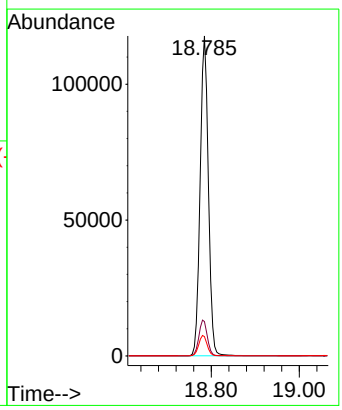


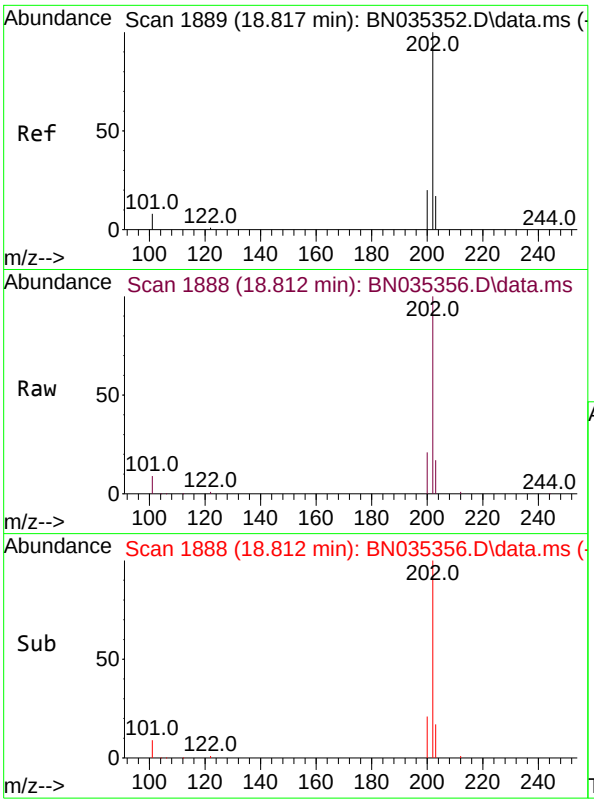


#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.5	5.3	7.9



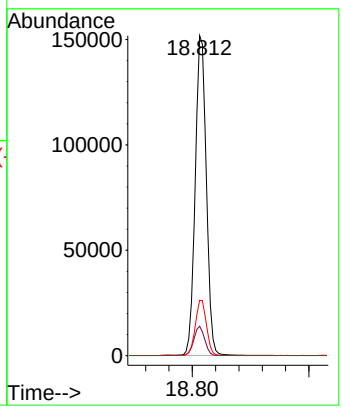


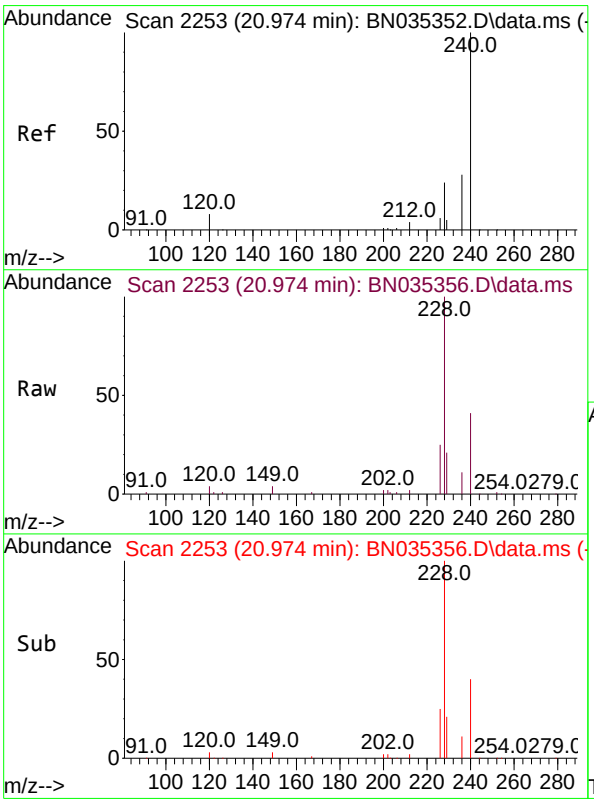
#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 199850

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.4	13.7	20.5

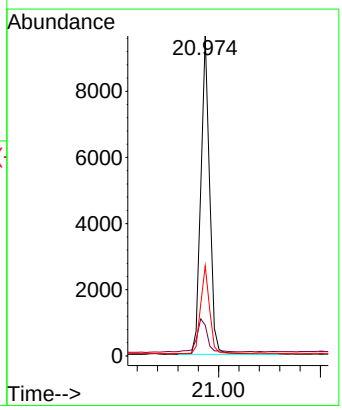


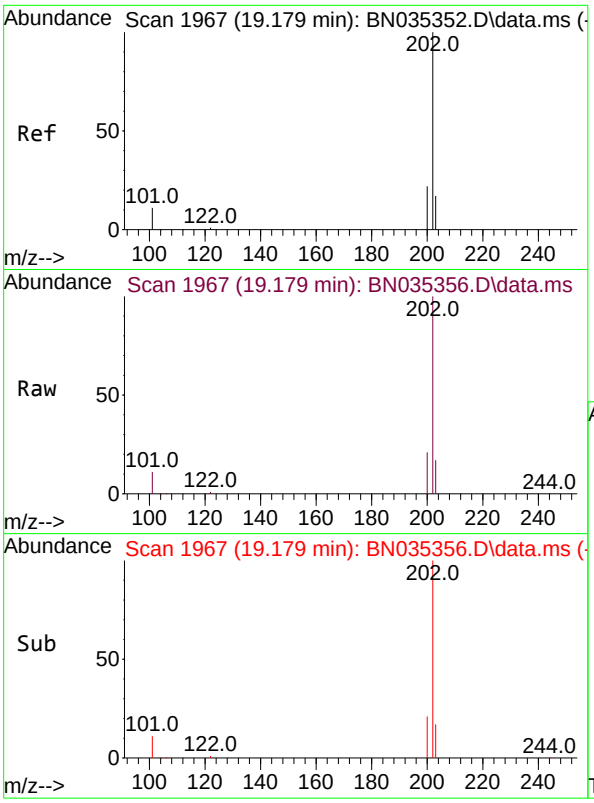


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.1	22.9	34.3



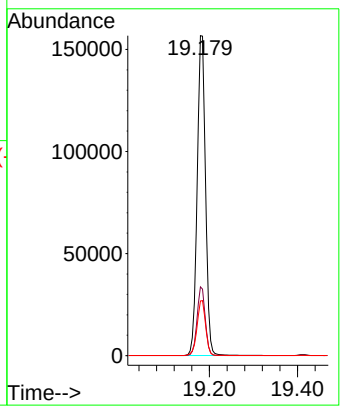


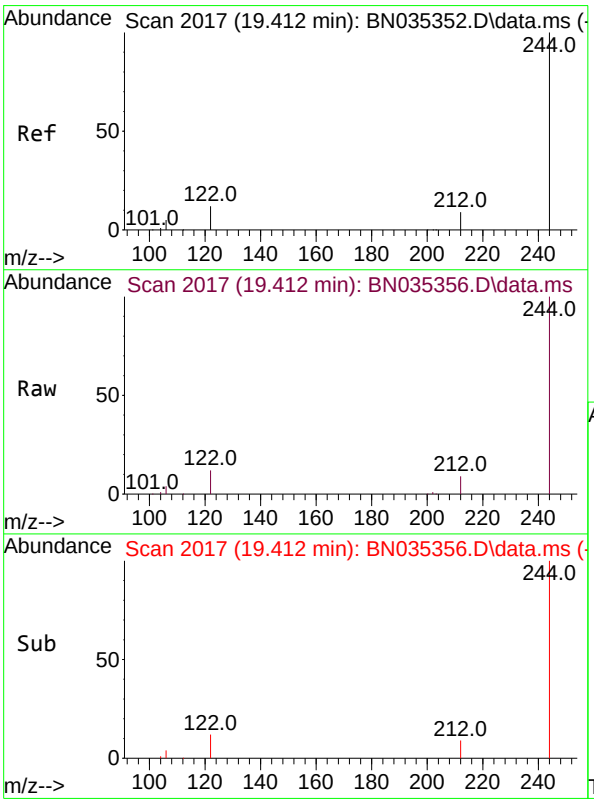
#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 206018

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

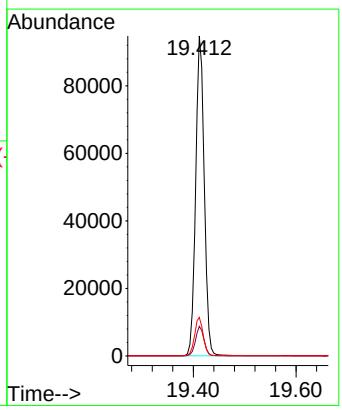


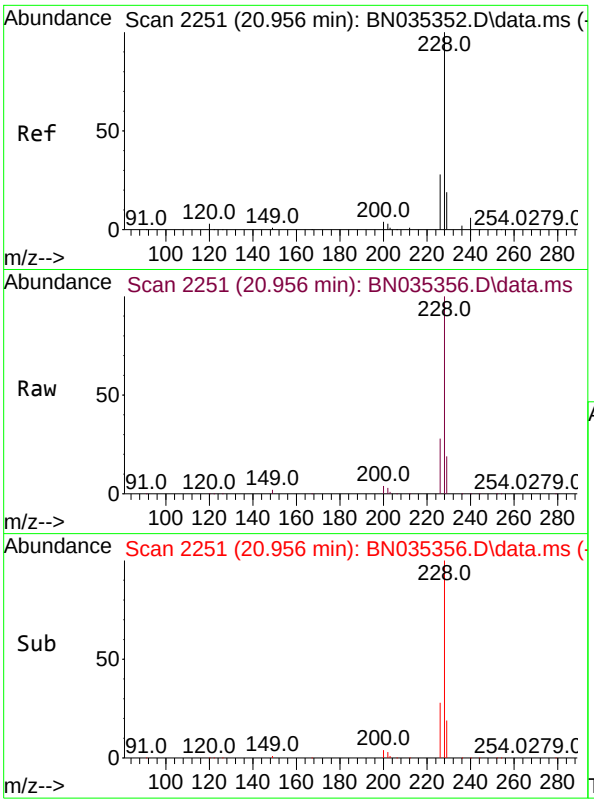


#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

Ion	Ratio	Lower	Upper
244	100		
212	9.2	8.1	12.1
122	12.1	10.3	15.5



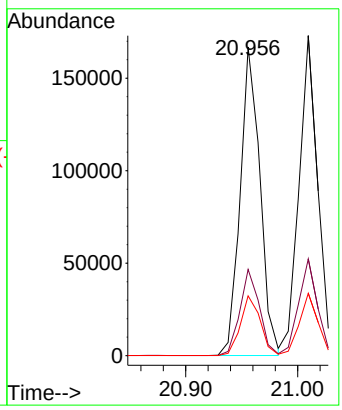


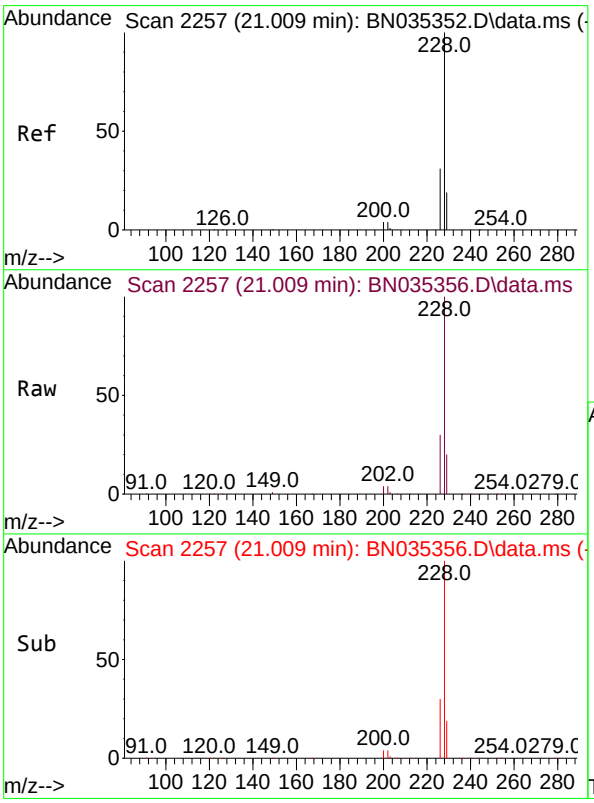
#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 205712

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.4	15.8	23.8

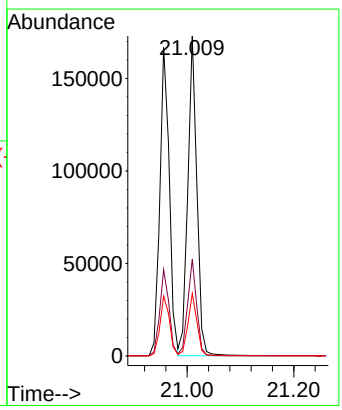


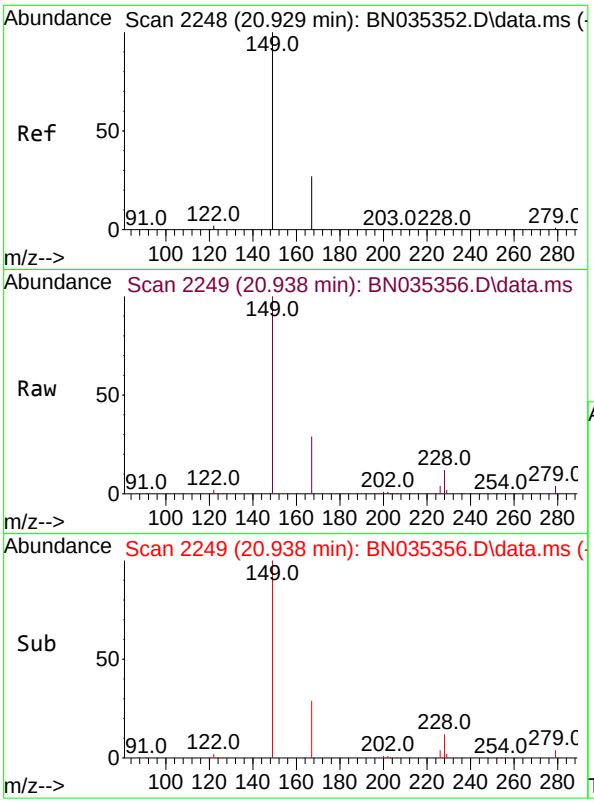


#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.5	15.9	23.9



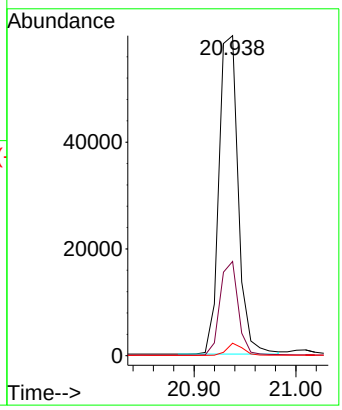


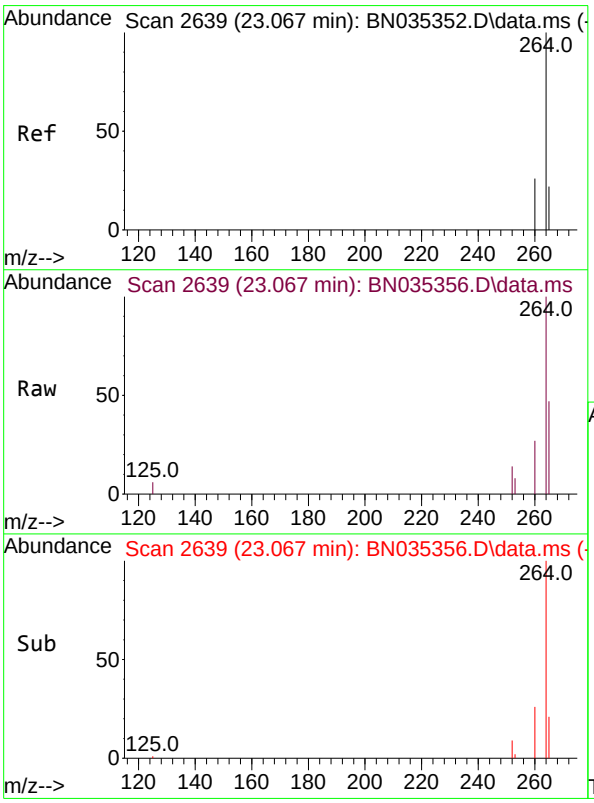
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 78322

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.2	2.7	4.1

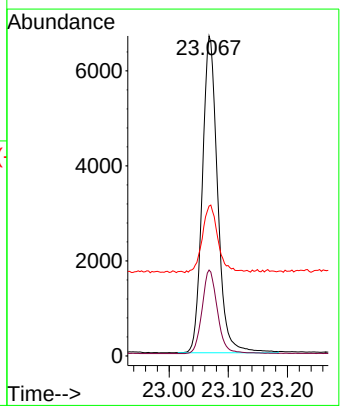


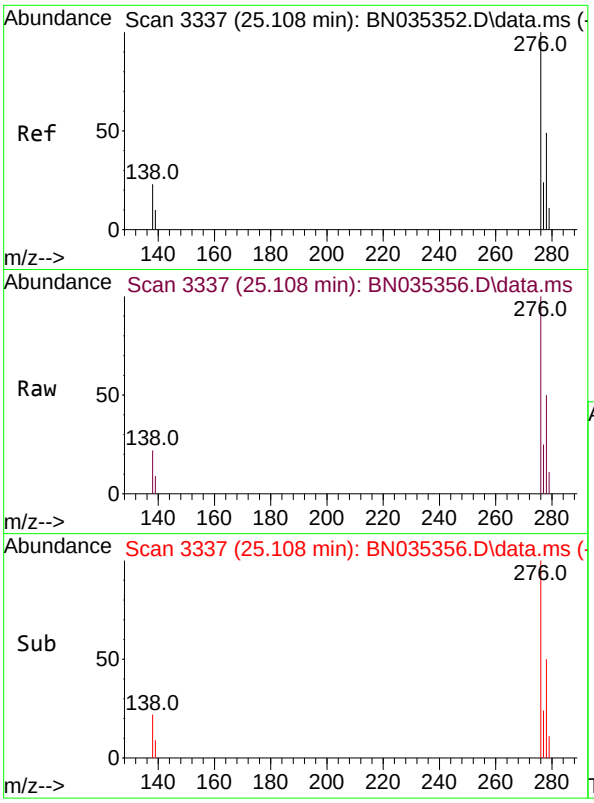


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	46.8	40.2	60.4



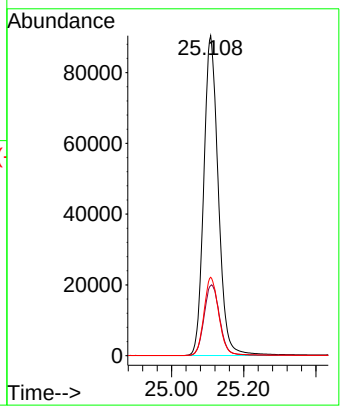


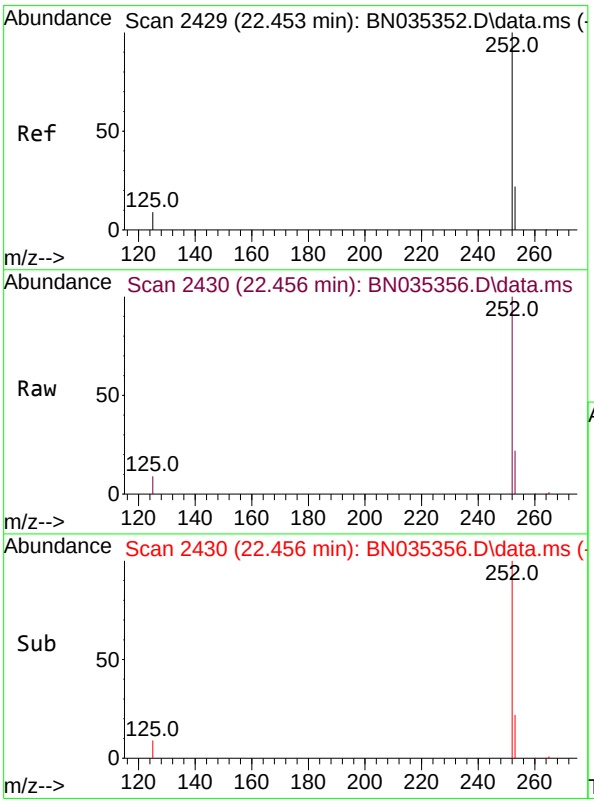
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 252709

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.0	19.8	29.6

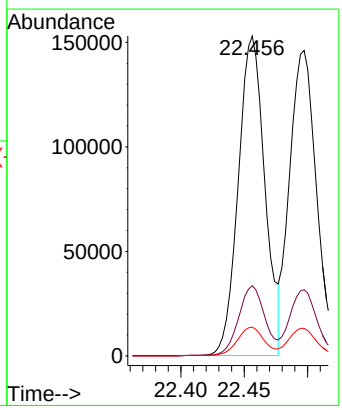


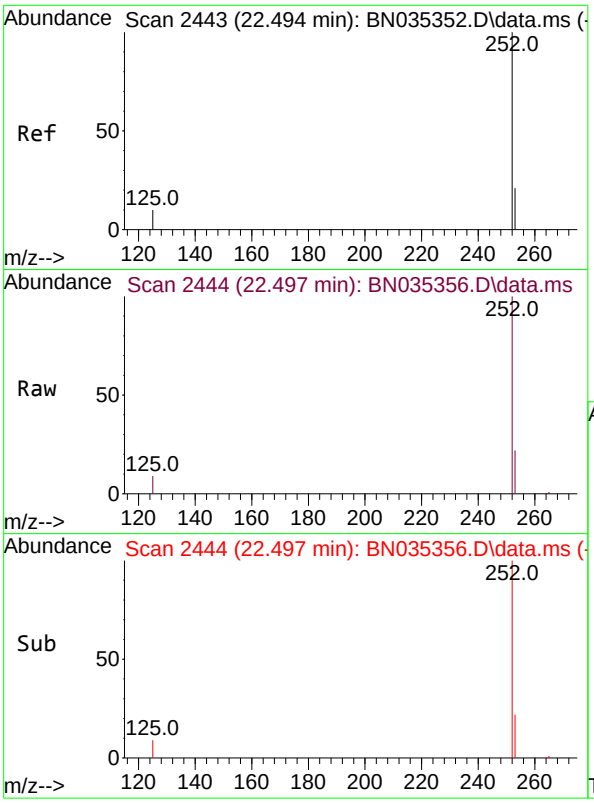


#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



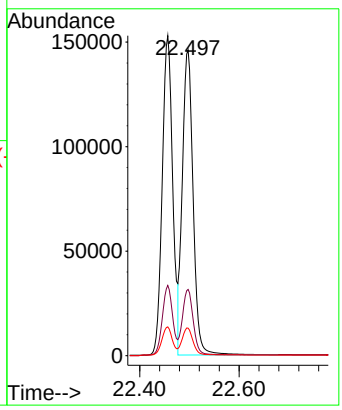


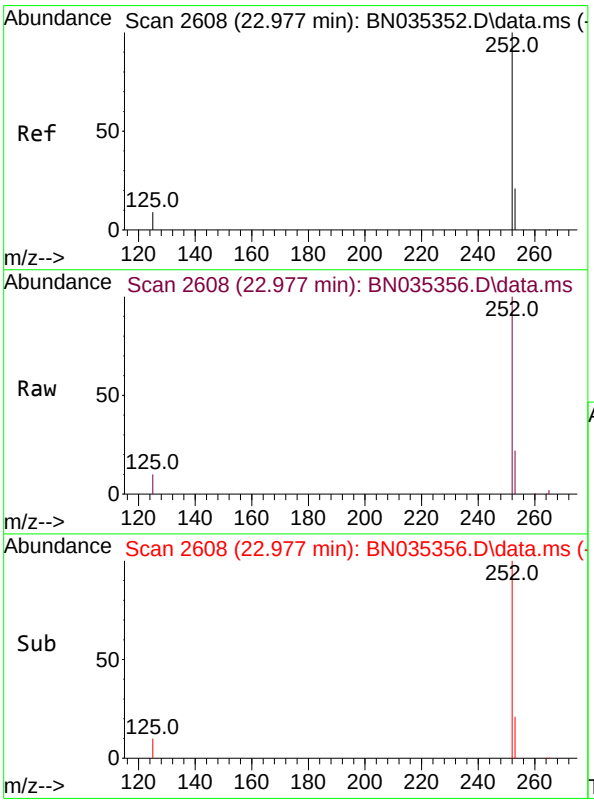
#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 220146

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	9.0	10.2	15.4#

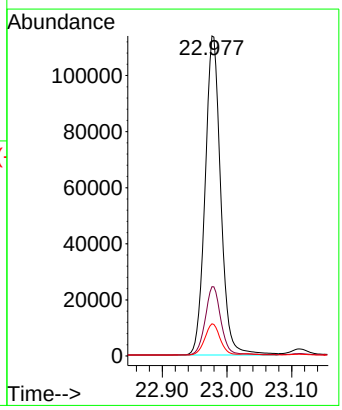


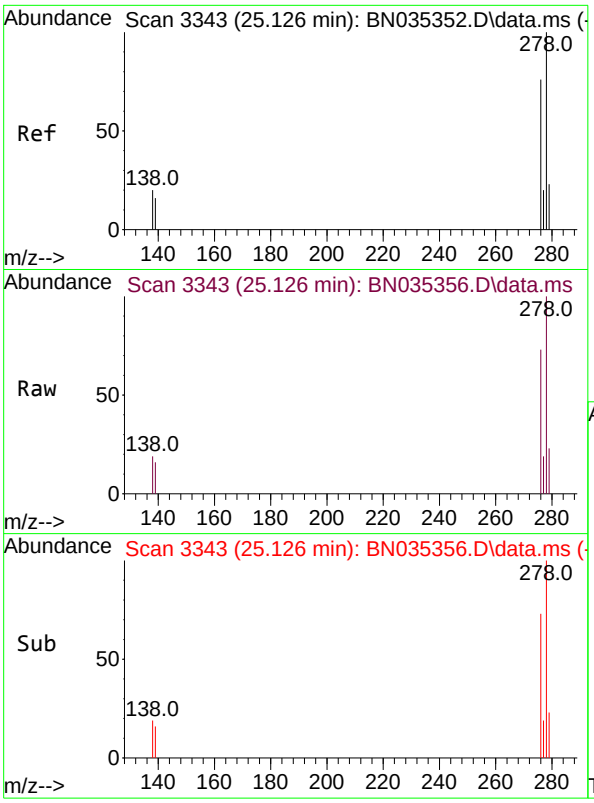


#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

Ion	Ratio	Lower	Upper
252	100		
253	21.6	20.2	30.4
125	10.0	10.9	16.3#



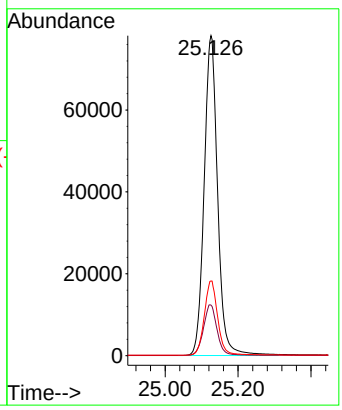


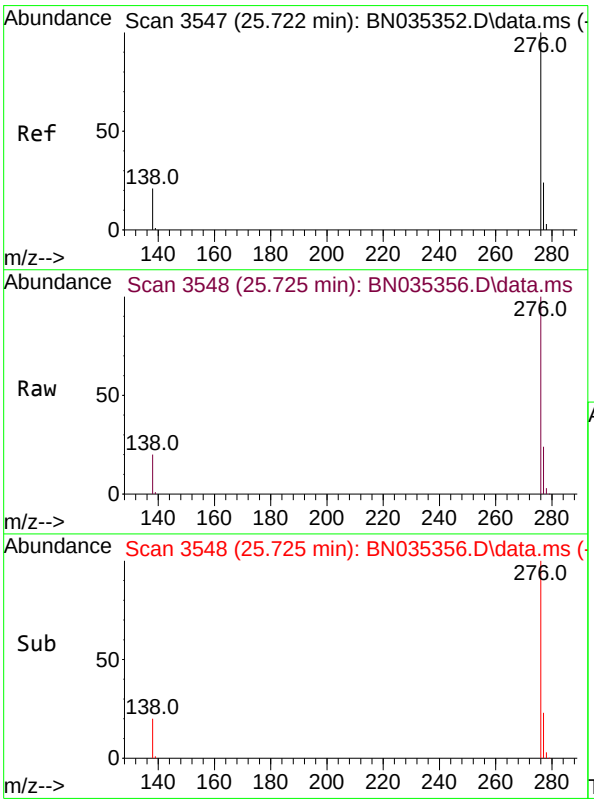
#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 199852

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.2	21.4
279	23.3	20.5	30.7

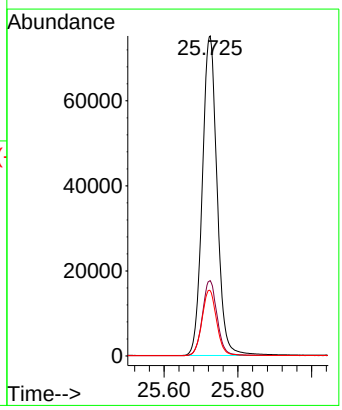




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

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

ICAL Form

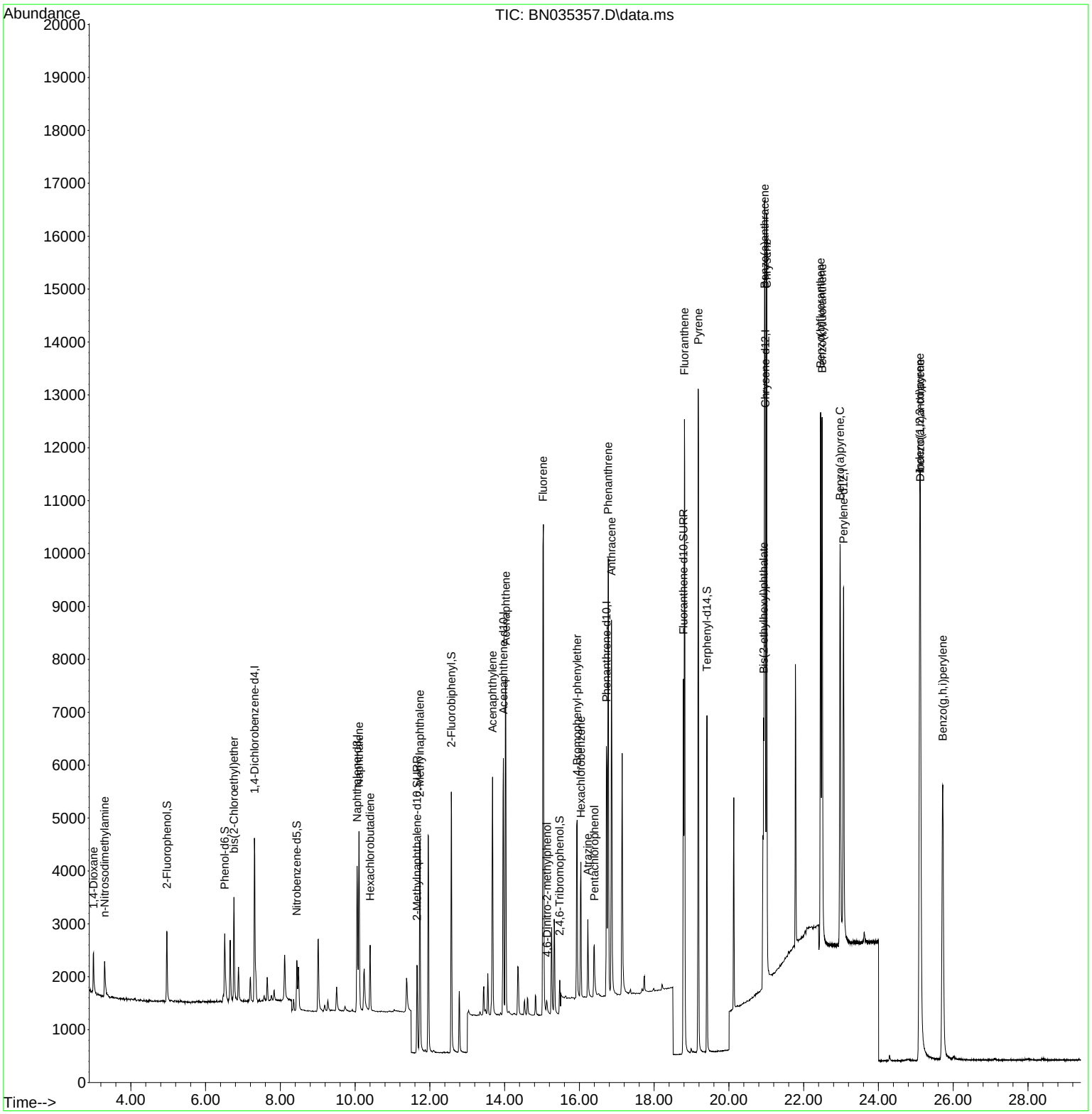
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

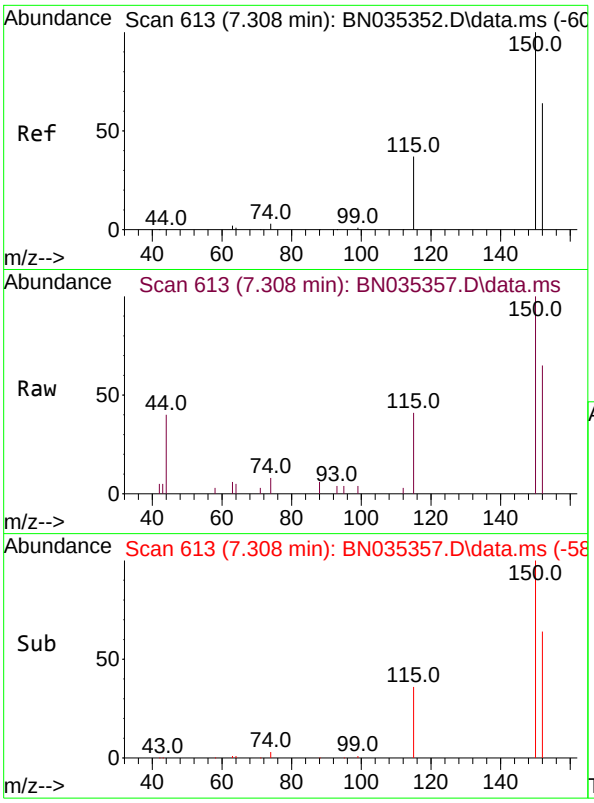
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

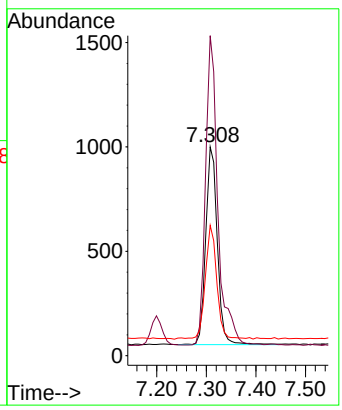




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

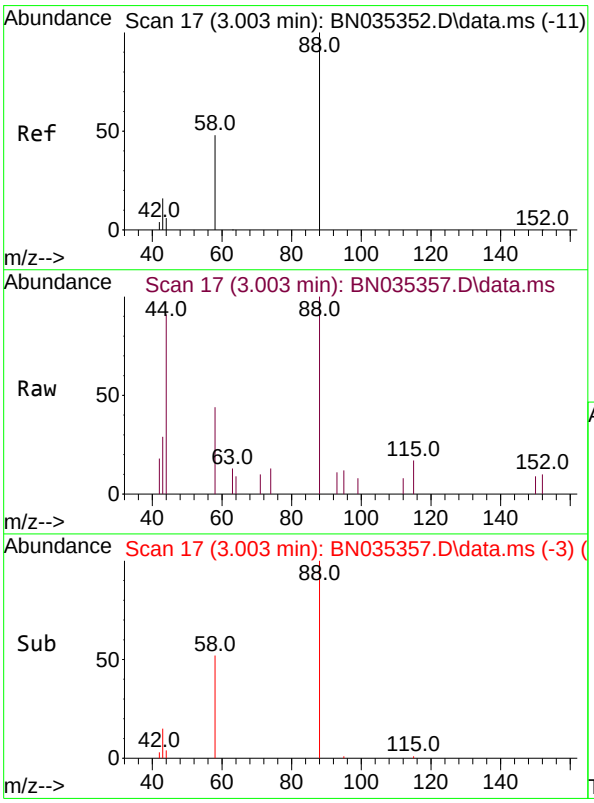
Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

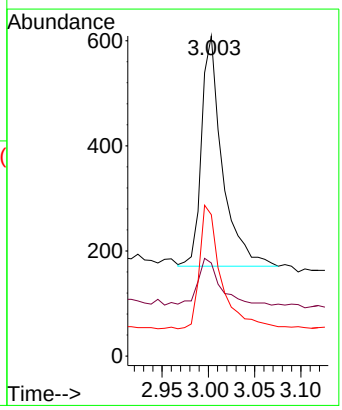
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

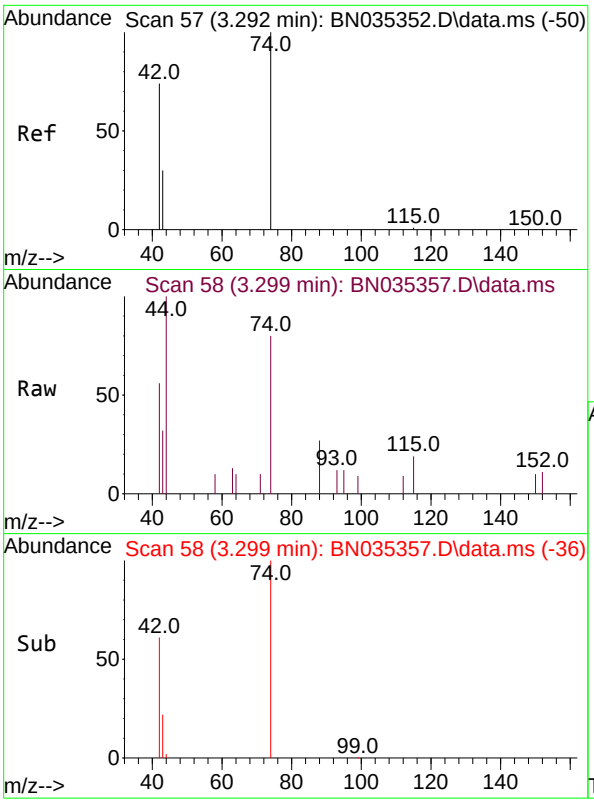


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7

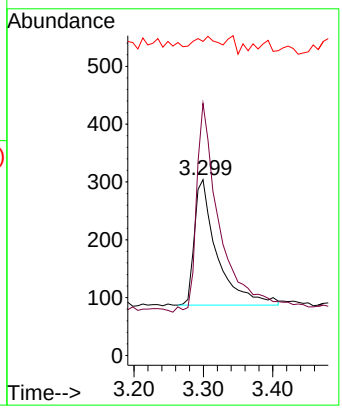




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

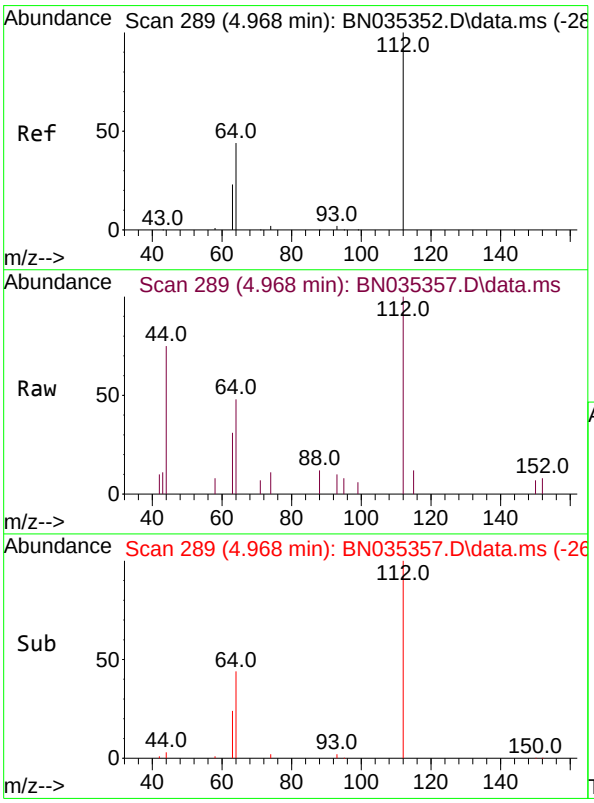
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

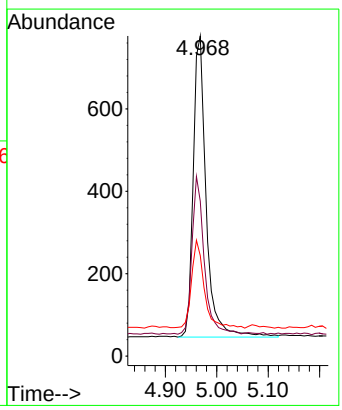
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

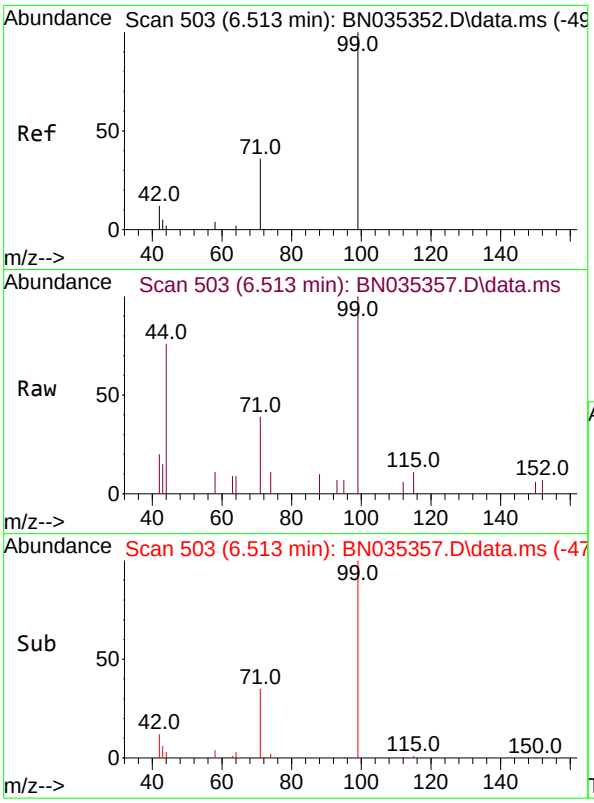


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6

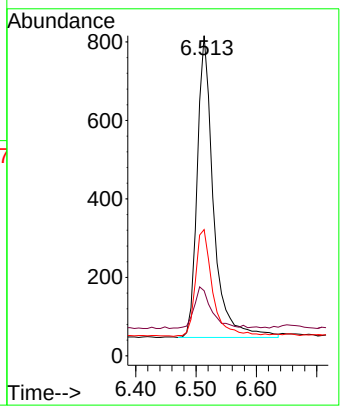




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

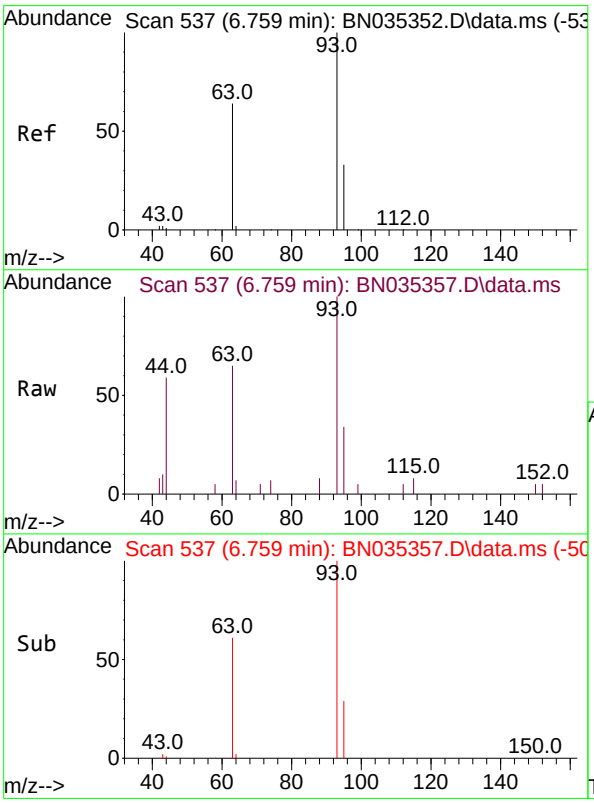
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

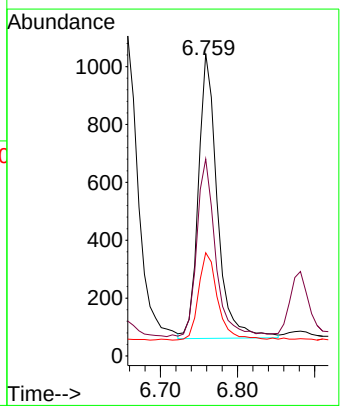
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

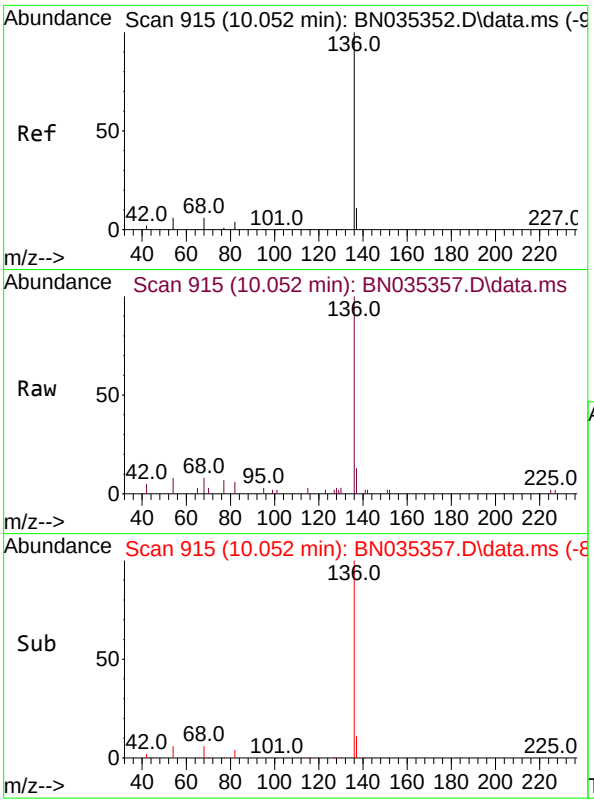


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5

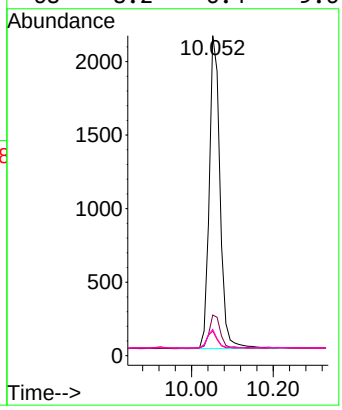




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

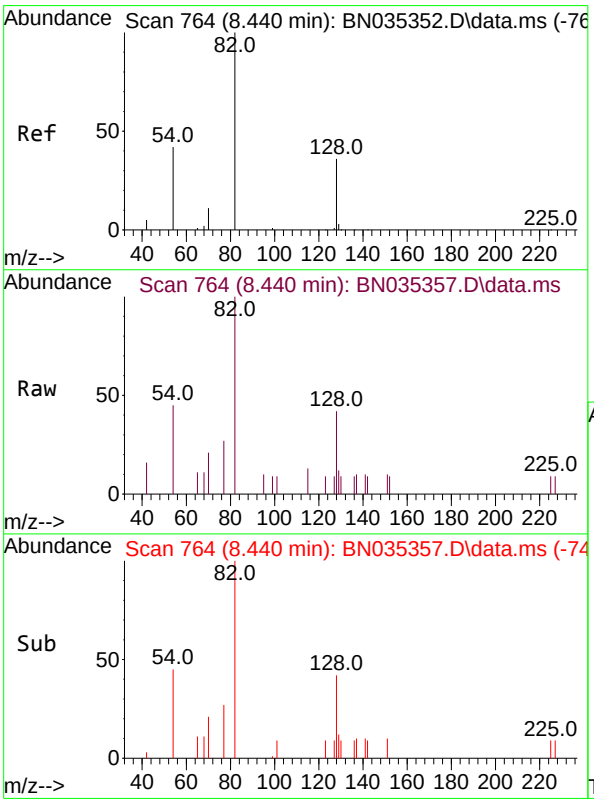
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

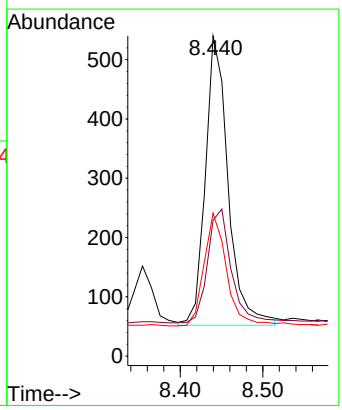
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

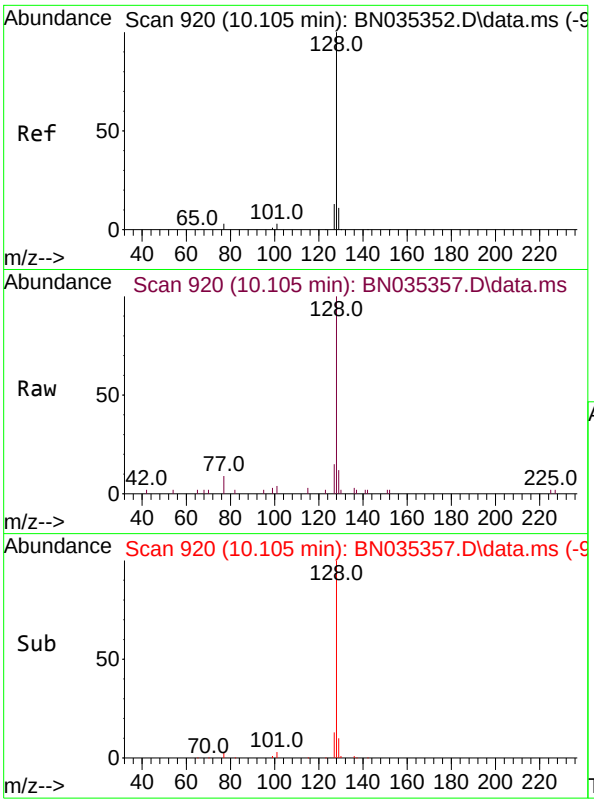


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1

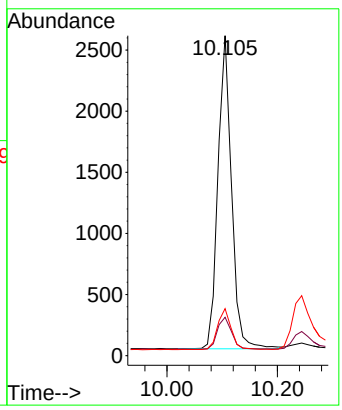




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

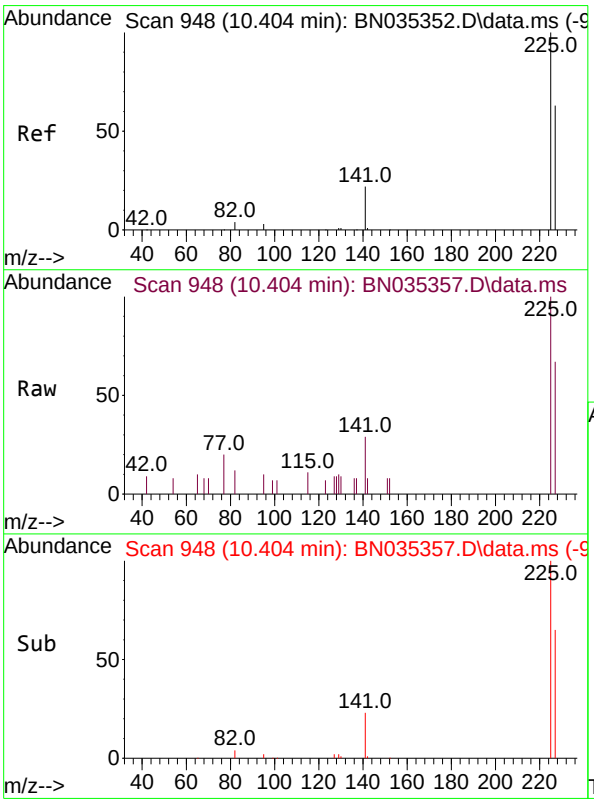
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

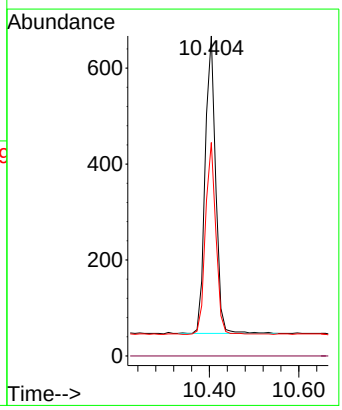
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

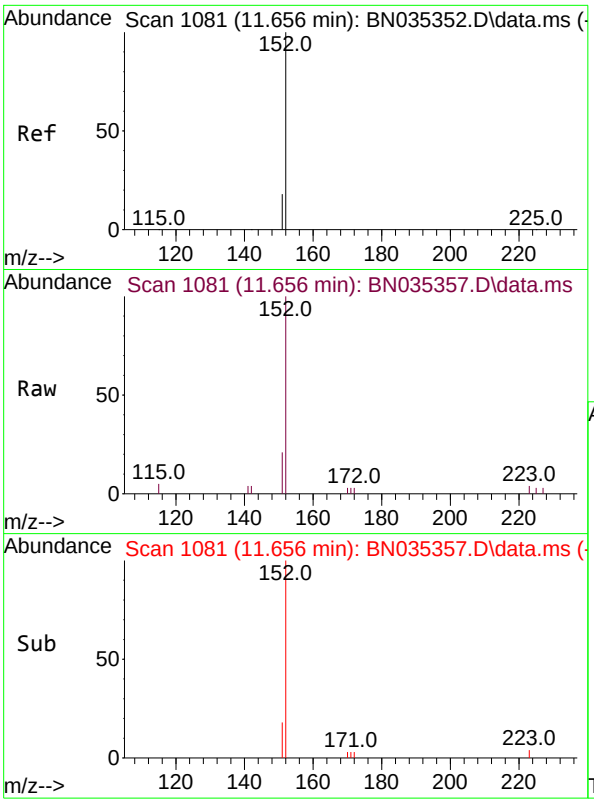


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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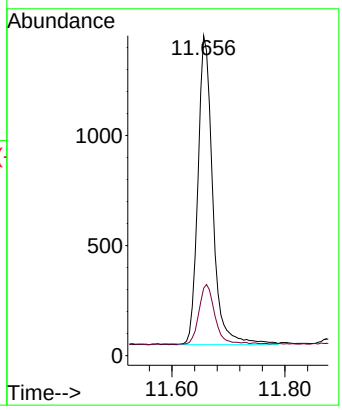
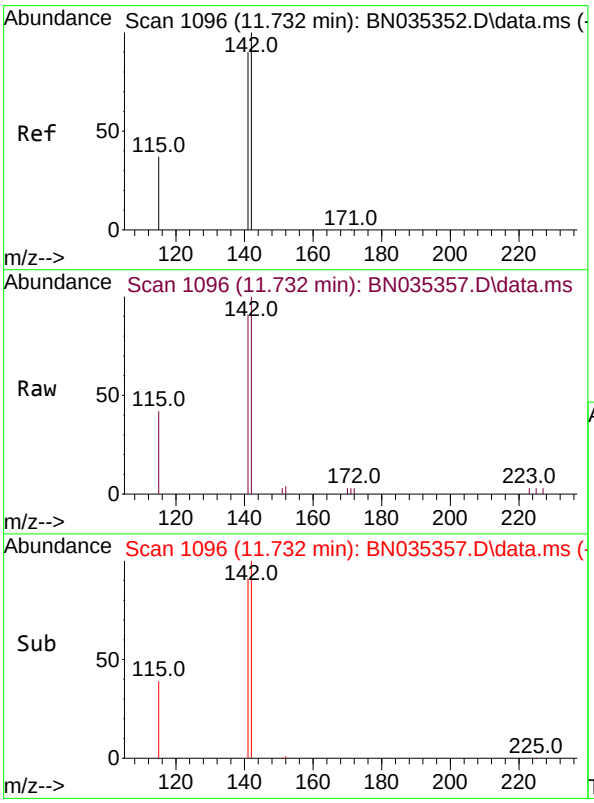
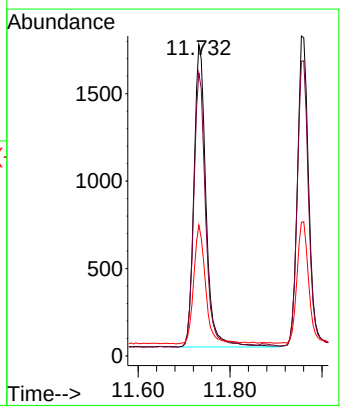


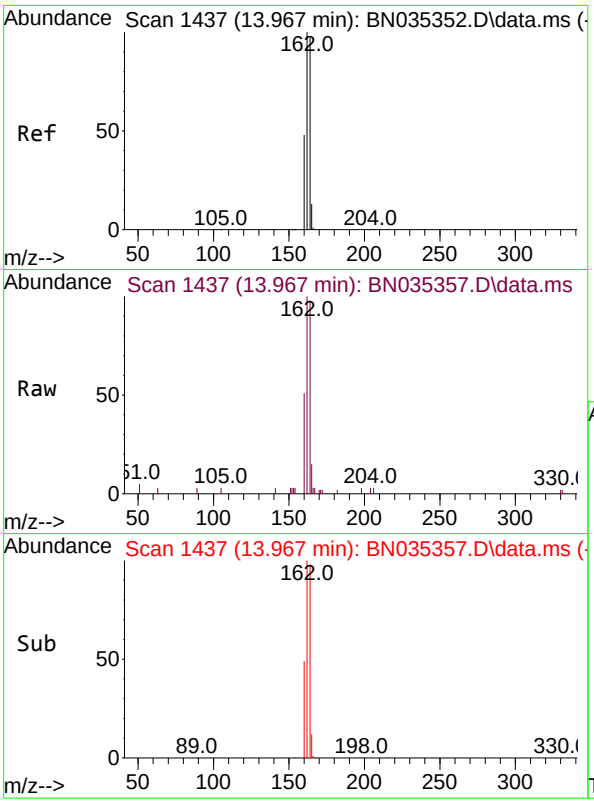


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0

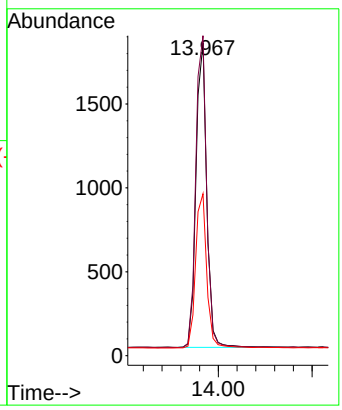




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
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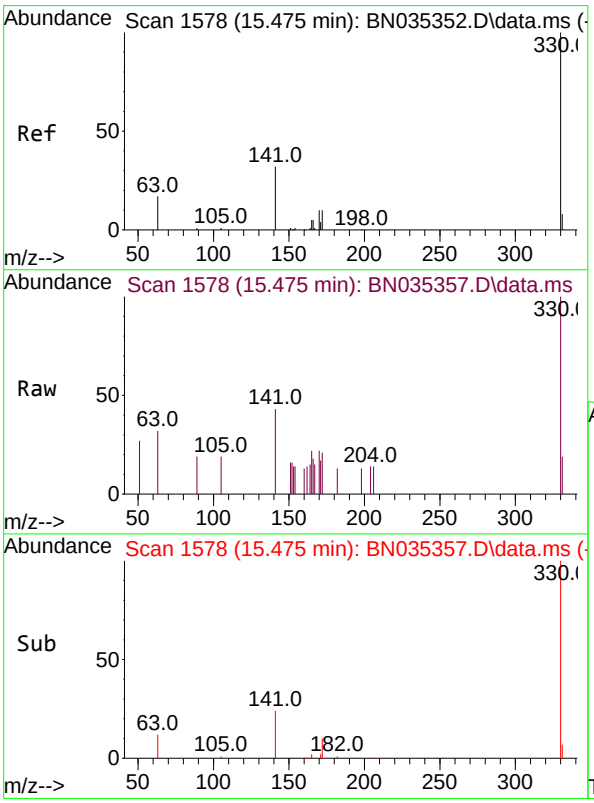
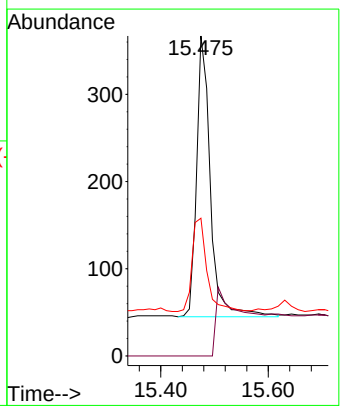
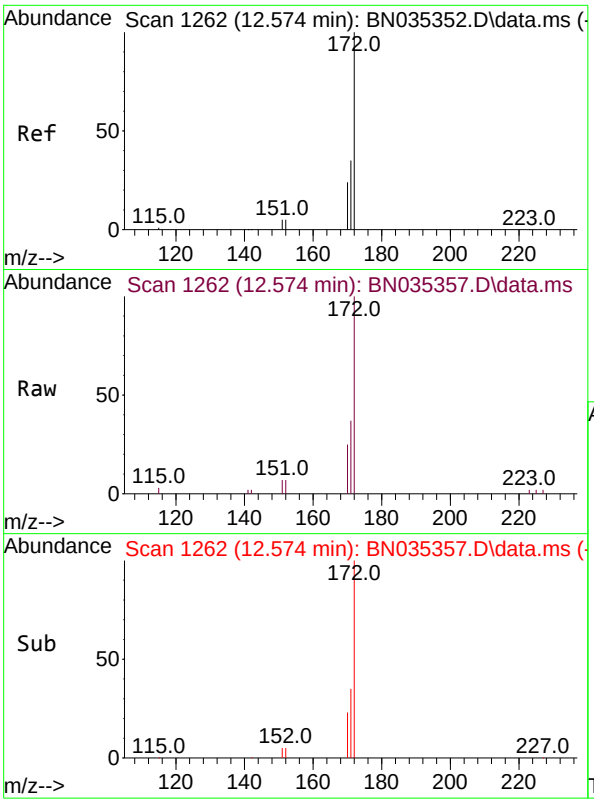


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

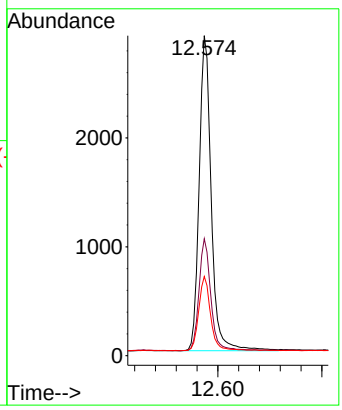




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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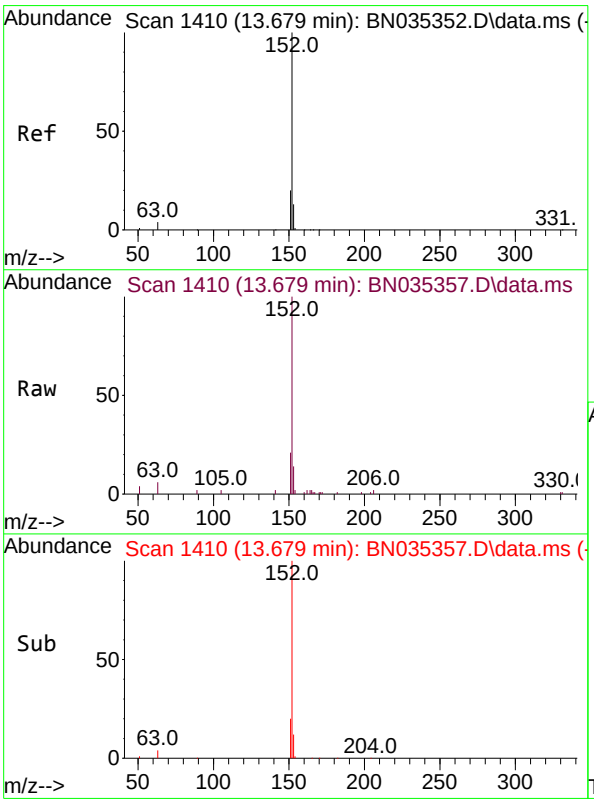
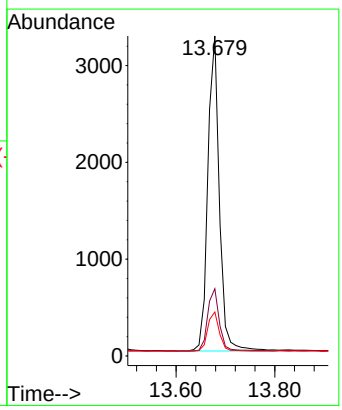
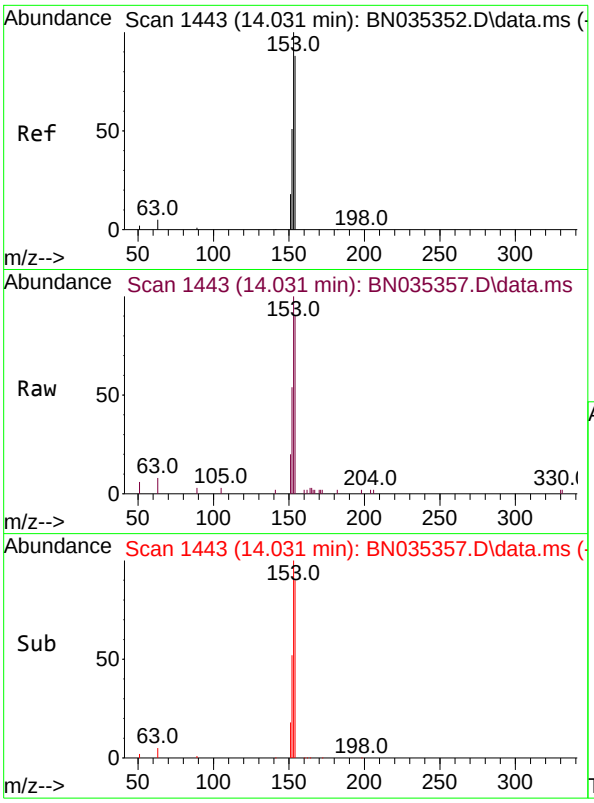


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

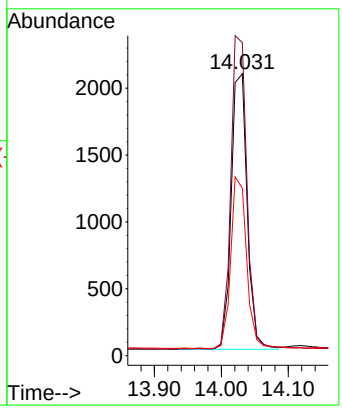




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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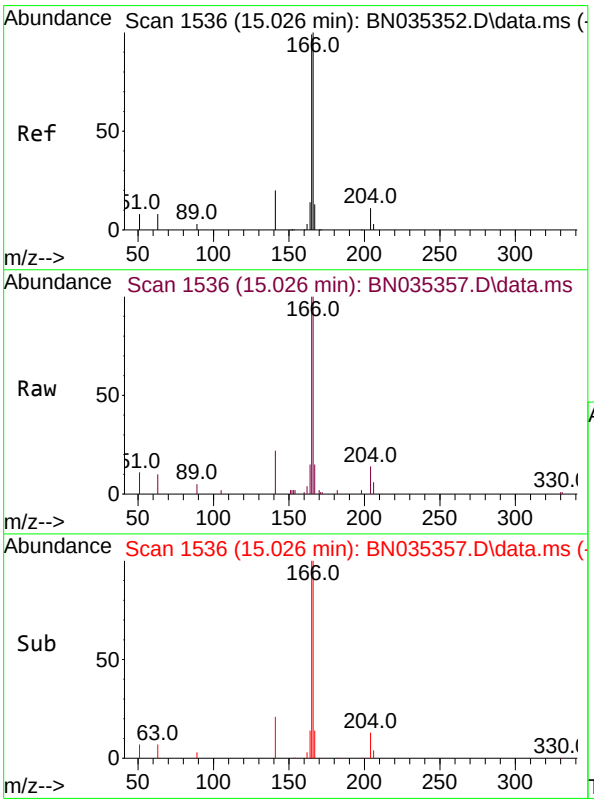
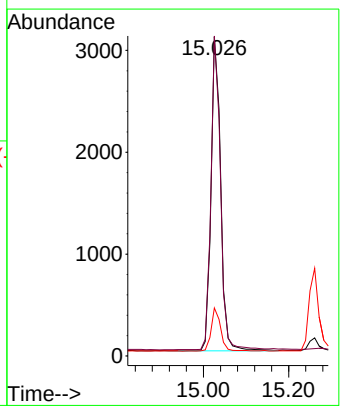
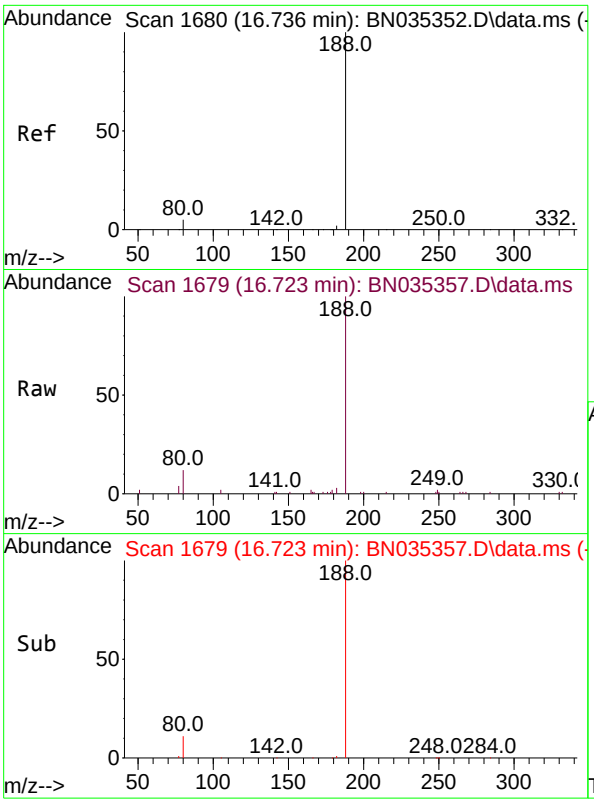


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2

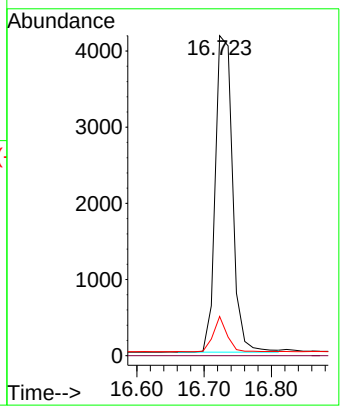




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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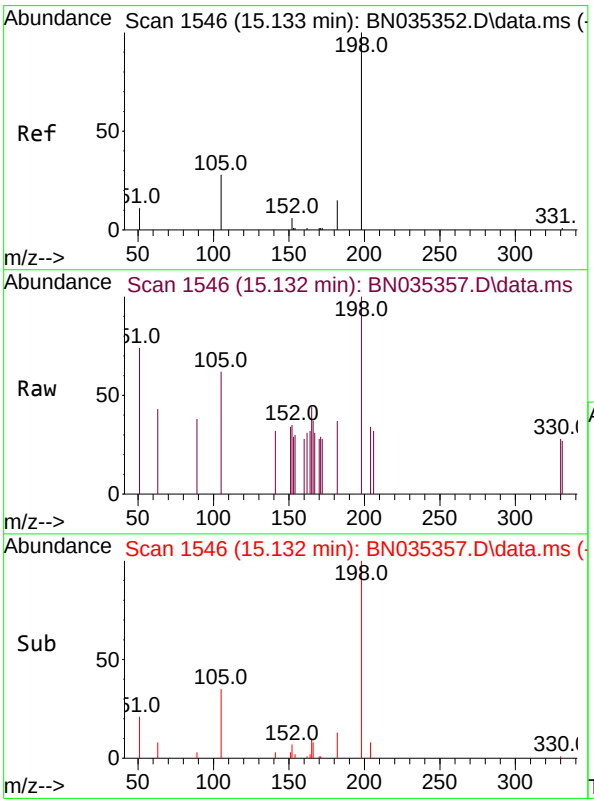
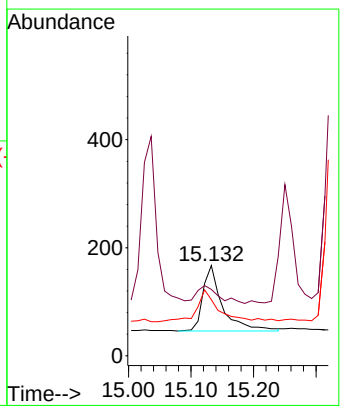
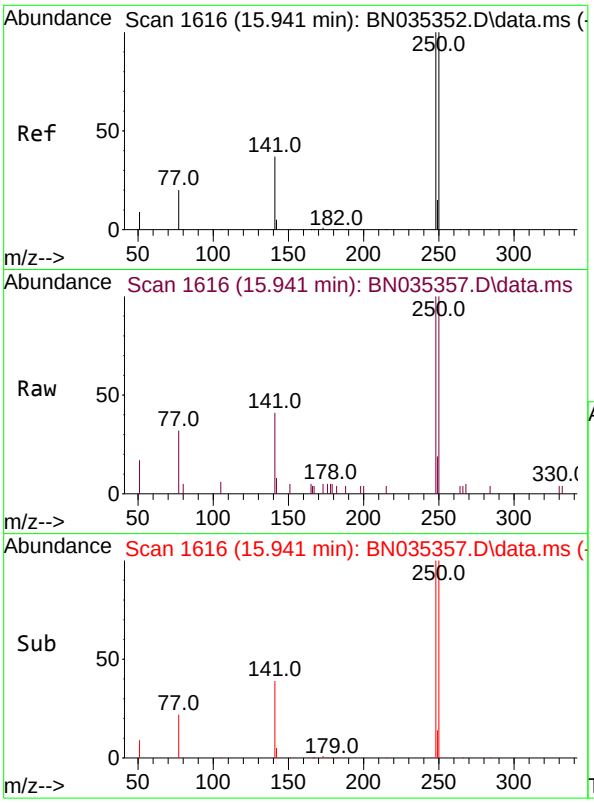


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9

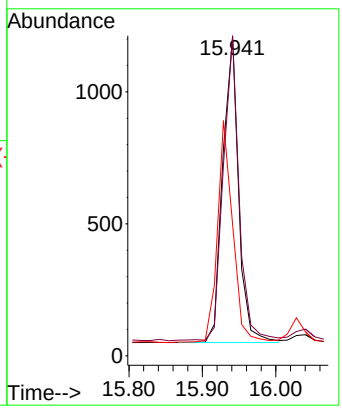




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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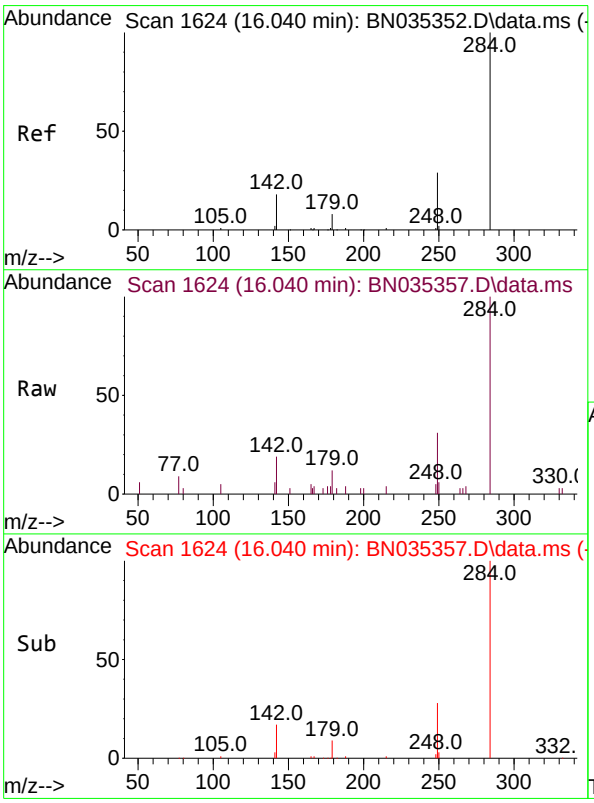
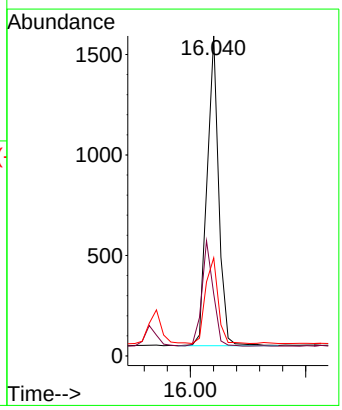
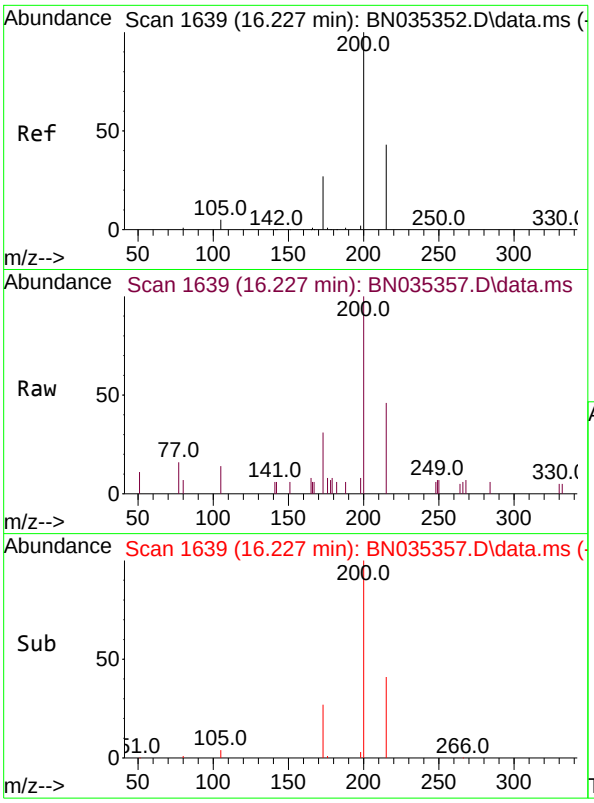


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8

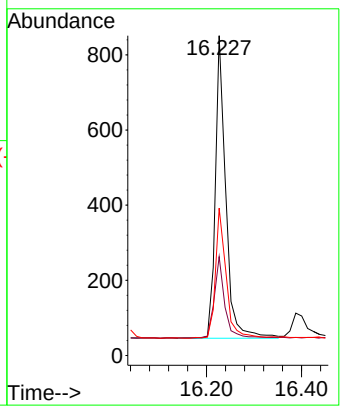




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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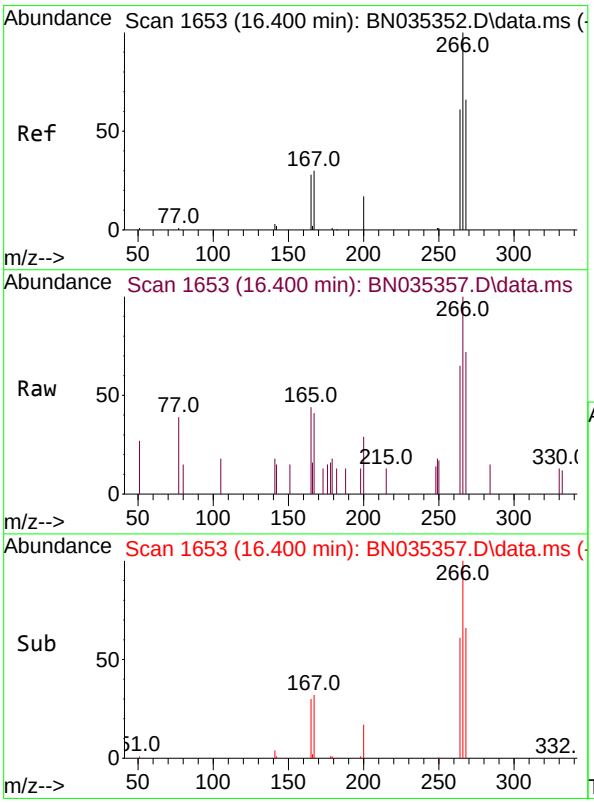
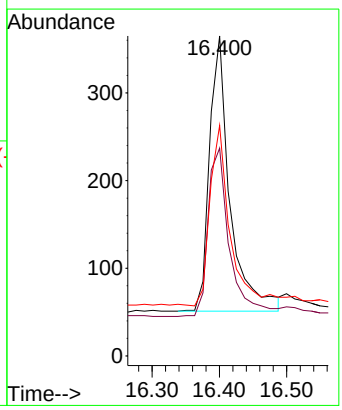
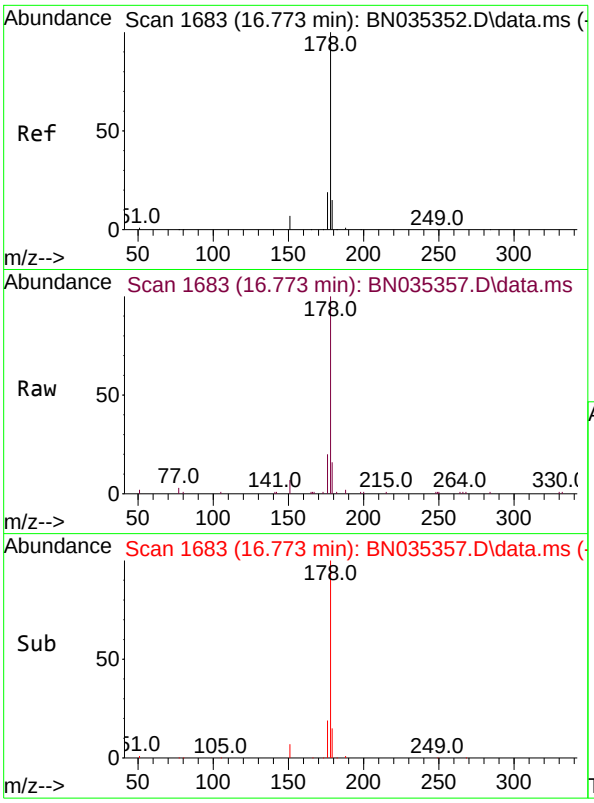


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#

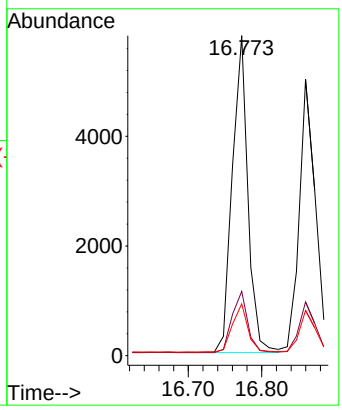




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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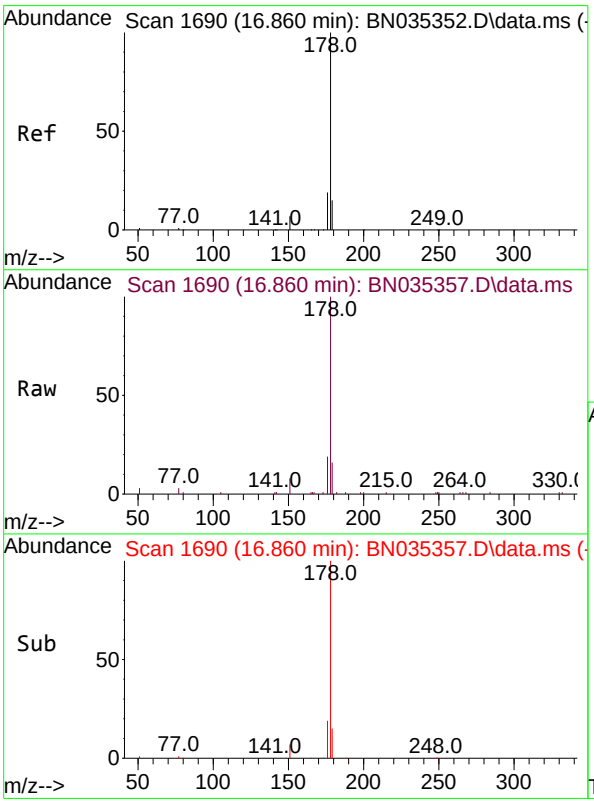
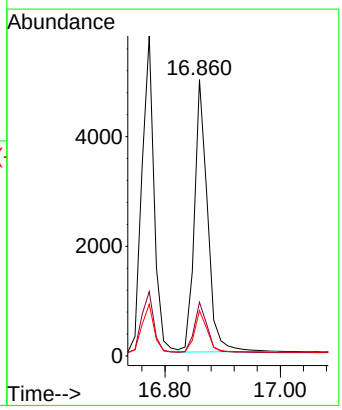
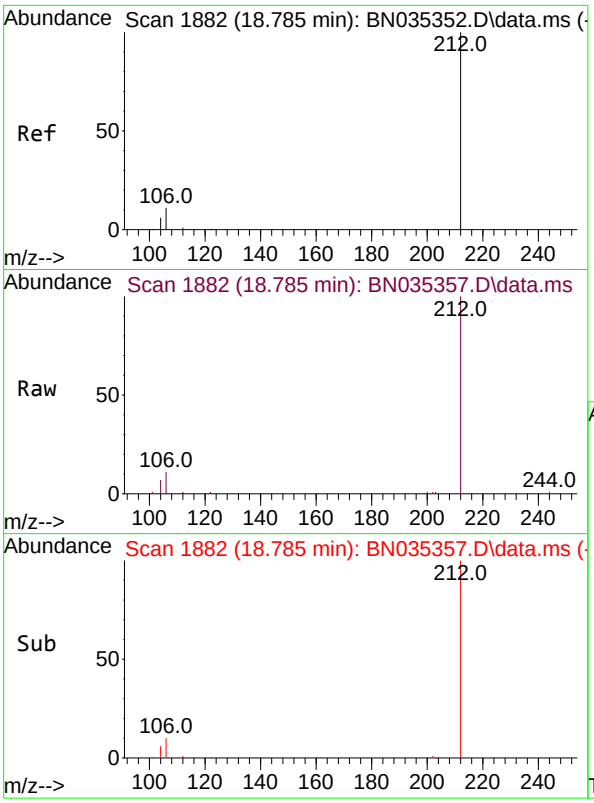


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

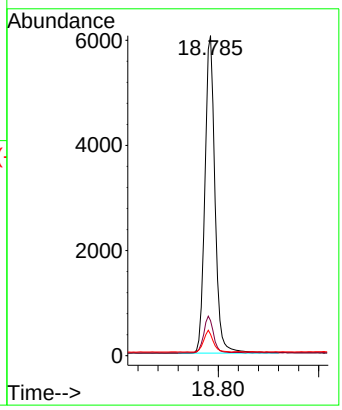




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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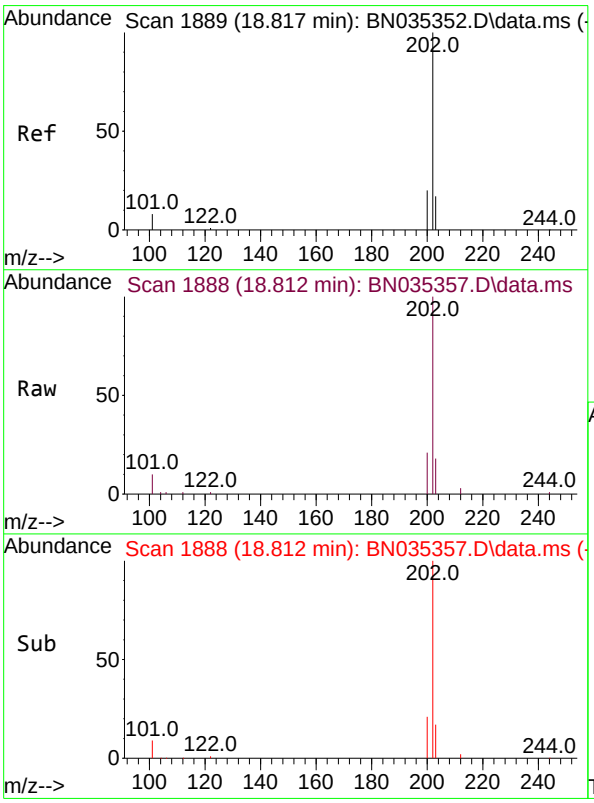
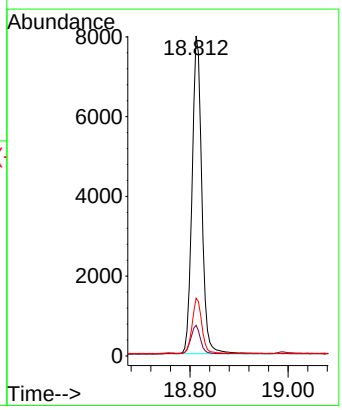
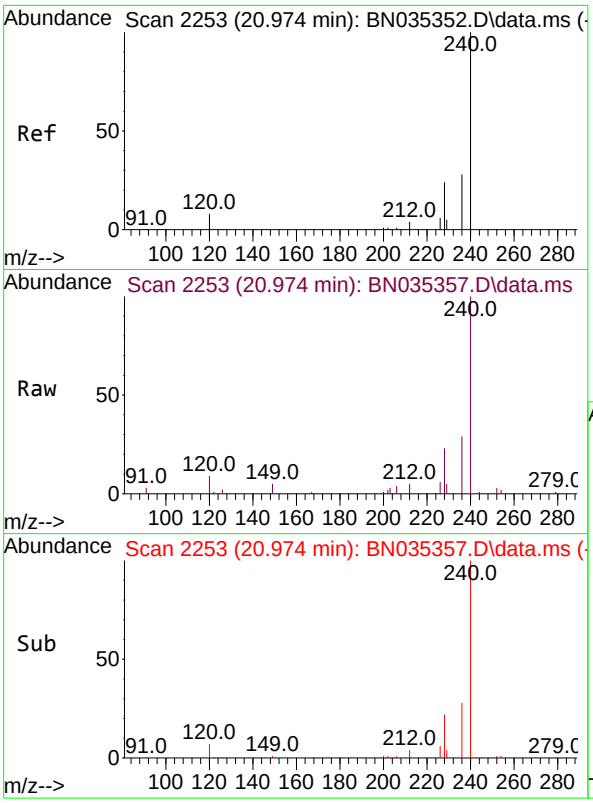


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5

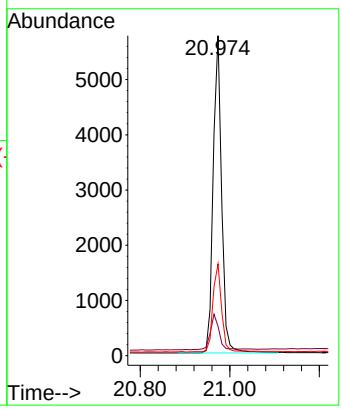




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

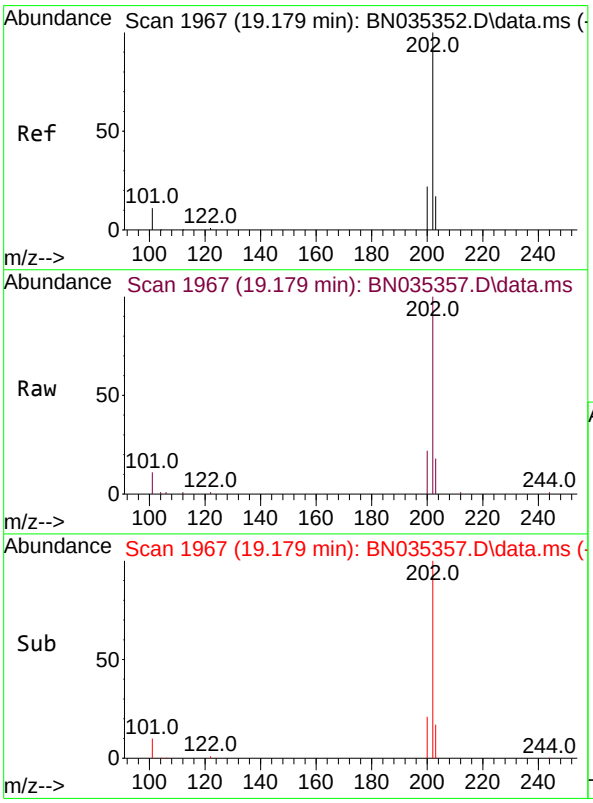
Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

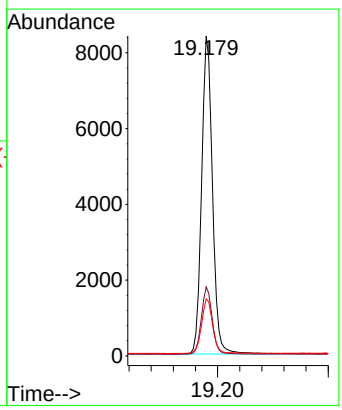
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

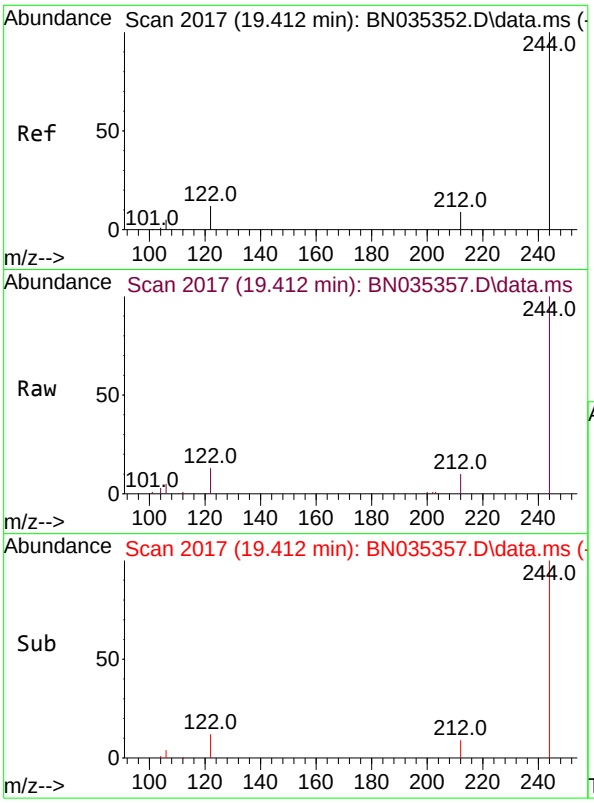


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5

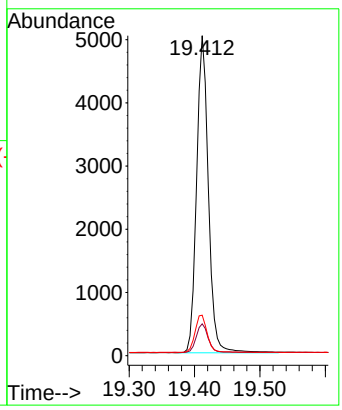




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

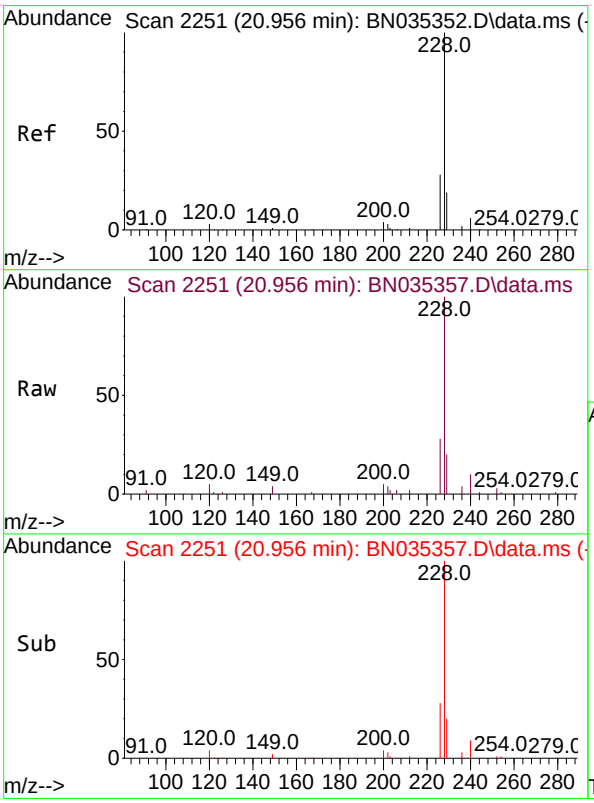
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

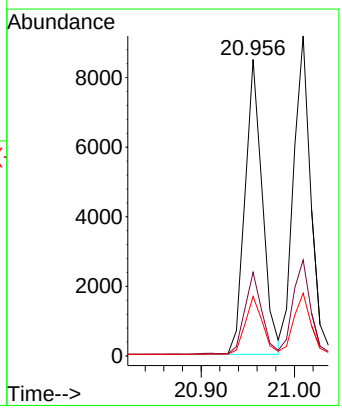
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

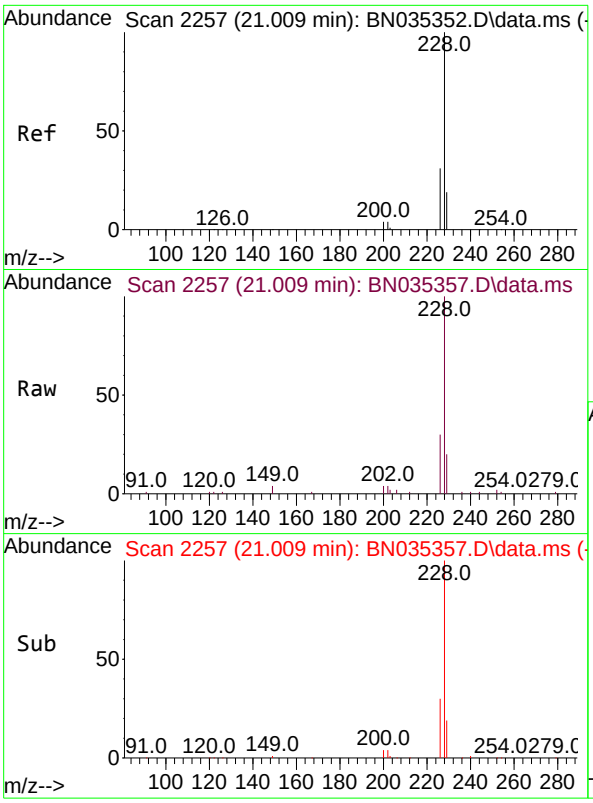


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8

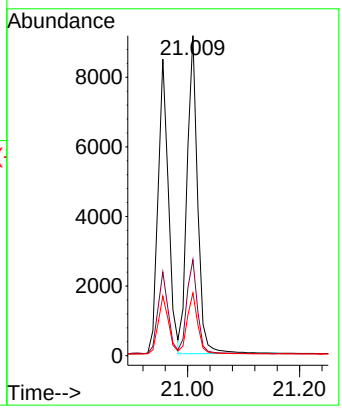




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

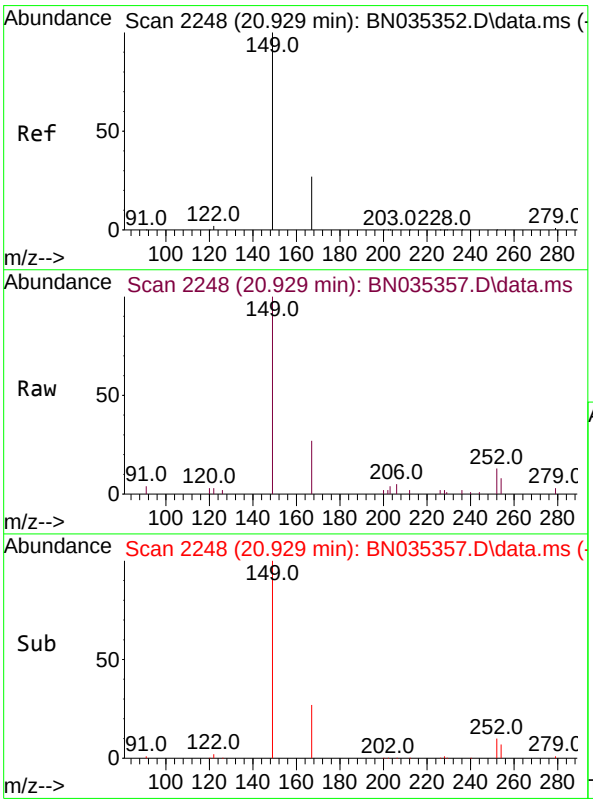
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

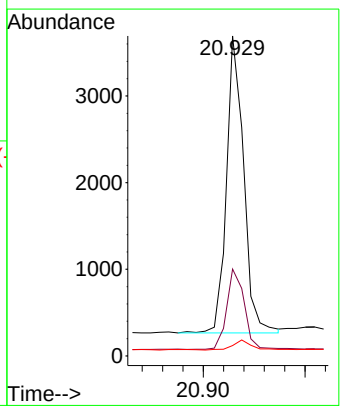
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

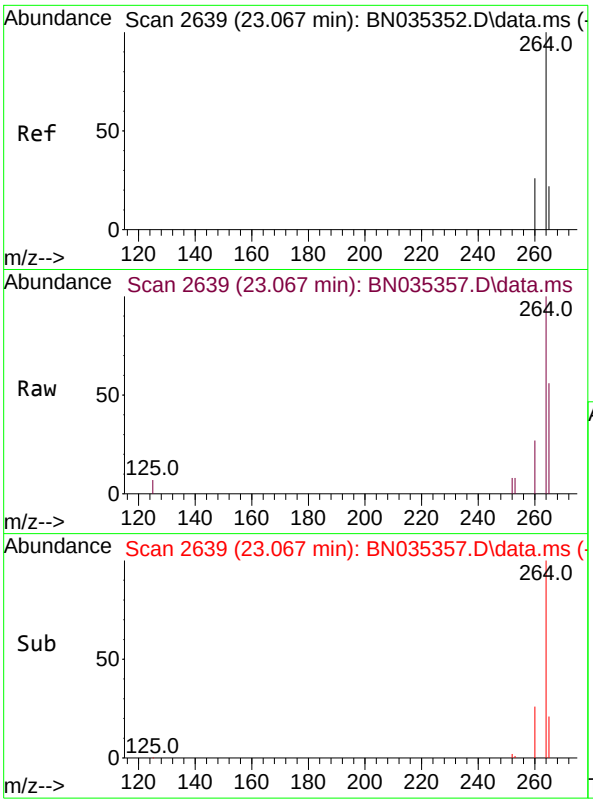


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

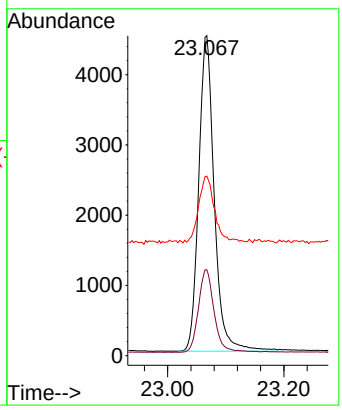




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

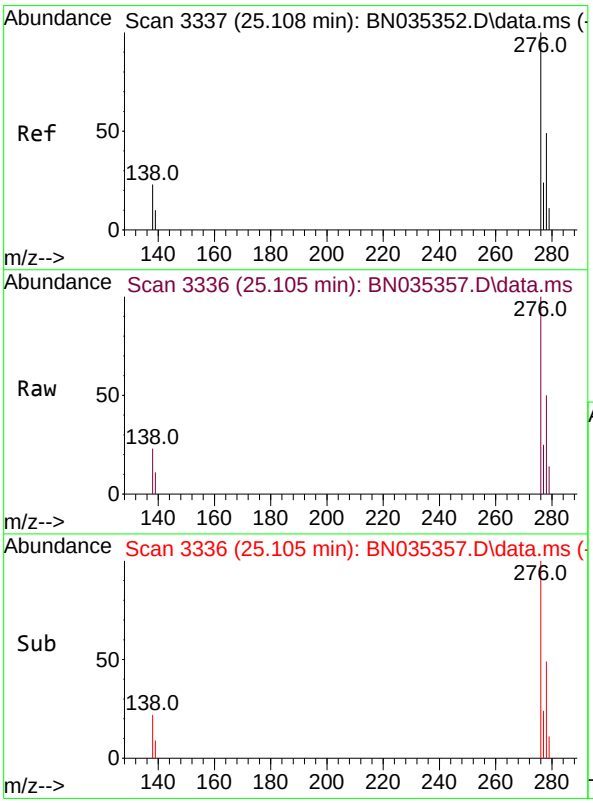
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

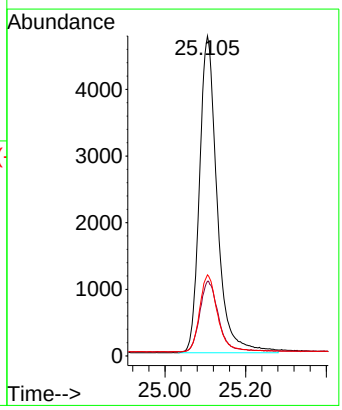
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

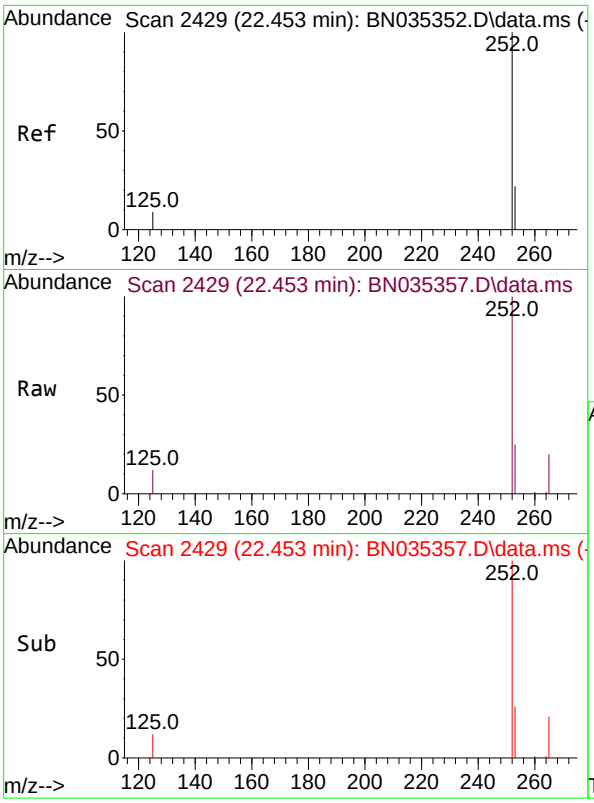


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6

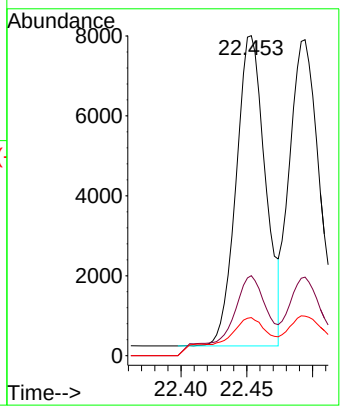




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1298

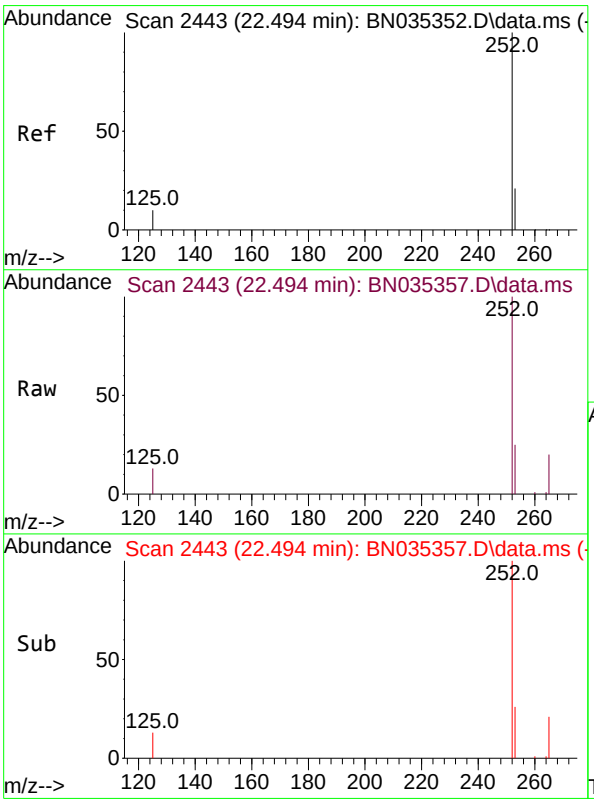
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

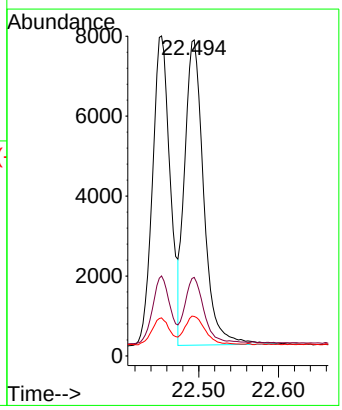
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

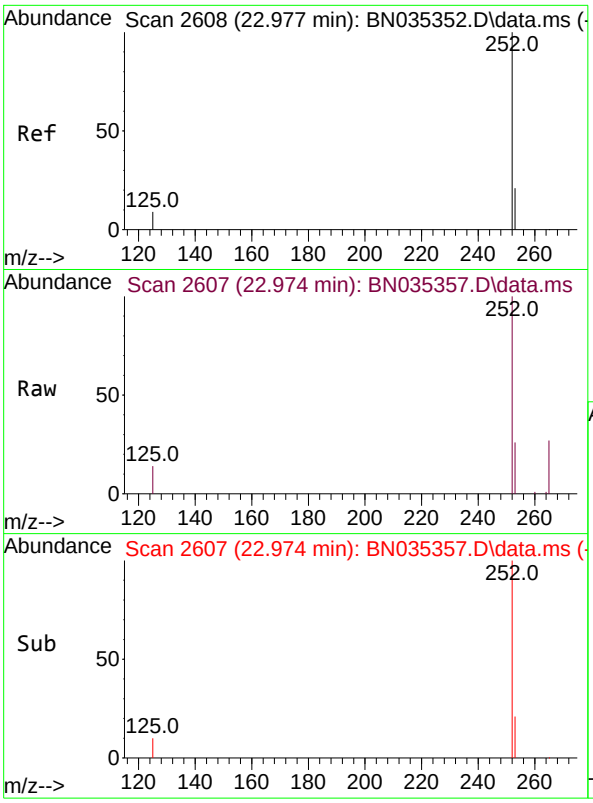


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4

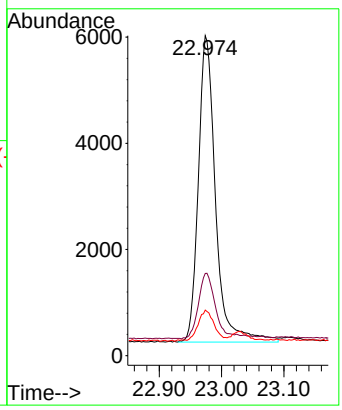




#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
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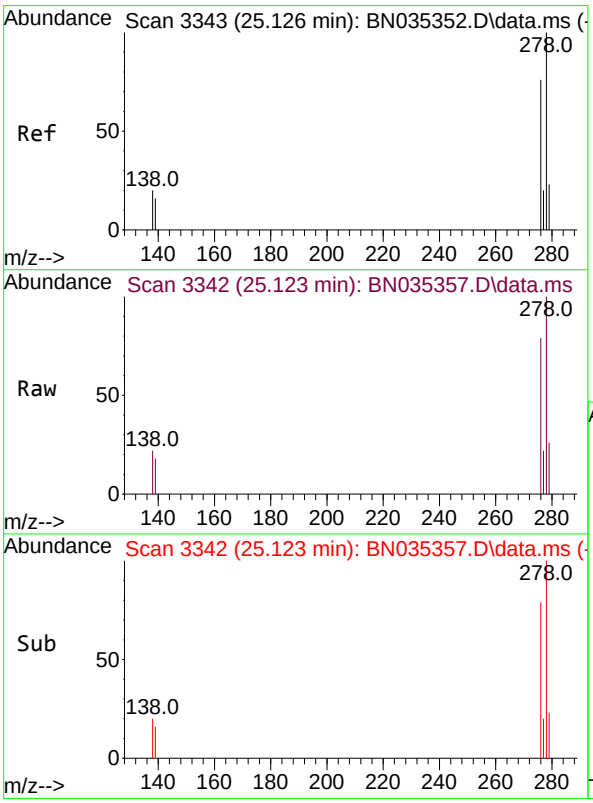
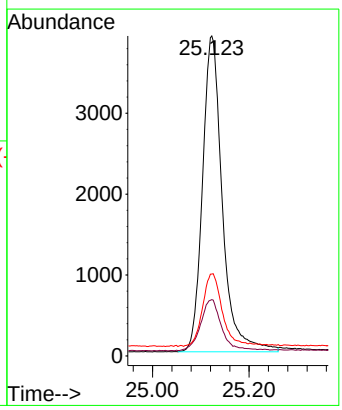
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

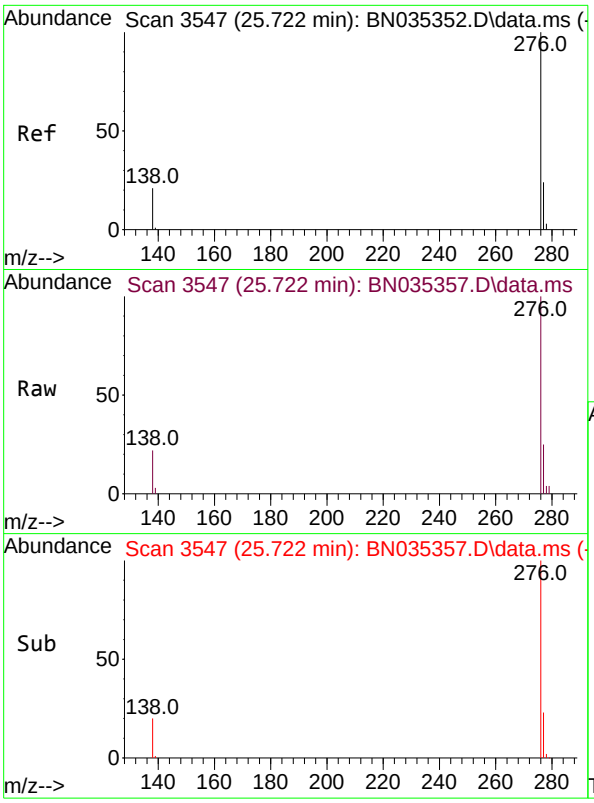


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7

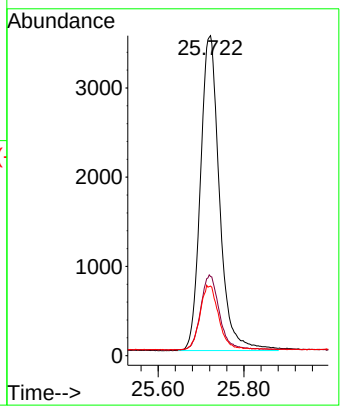




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2		1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4	S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5	S	Phenol-d6	1.204	0.933	22.5	59	0.00
6		bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8	S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9		Naphthalene	1.055	1.118	-6.0	80	0.00
10		Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12		2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15	S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16		Acenaphthylene	1.680	1.827	-8.8	87	0.00
17		Acenaphthene	1.115	1.188	-6.5	83	0.00
18		Fluorene	1.596	1.676	-5.0	82	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21		4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22		Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23		Atrazine	0.167	0.167	0.0	84	0.00
24		Pentachlorophenol	0.120	0.090	25.0	73	0.00
25		Phenanthrene	1.099	1.158	-5.4	84	0.00
26		Anthracene	0.994	1.068	-7.4	88	0.00
27	SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28		Fluoranthene	1.481	1.489	-0.5	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.477	1.515	-2.6	82	0.00
31	S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32		Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33		Chrysene	1.443	1.574	-9.1	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37		Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38		Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39	C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41		Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	75	0.00
2		1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4	S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5	S	Phenol-d6	0.400	0.310	22.5	59	0.00
6		bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8	S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9		Naphthalene	0.400	0.424	-6.0	80	0.00
10		Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12		2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15	S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16		Acenaphthylene	0.400	0.435	-8.7	87	0.00
17		Acenaphthene	0.400	0.426	-6.5	83	0.00
18		Fluorene	0.400	0.420	-5.0	82	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23		Atrazine	0.400	0.401	-0.3	84	0.00
24		Pentachlorophenol	0.400	0.301	24.8	73	0.00
25		Phenanthrene	0.400	0.421	-5.2	84	0.00
26		Anthracene	0.400	0.430	-7.5	88	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28		Fluoranthene	0.400	0.402	-0.5	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.410	-2.5	82	0.00
31	S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32		Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33		Chrysene	0.400	0.436	-9.0	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37		Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38		Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39	C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41		Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG No.: P5166

Instrument ID: BNA_N Calibration Date/Time: 12/09/2024 17:07

Lab File ID: BN035510.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.627		0.2	20.0
Fluoranthene-d10	1.134	1.031		-9.1	20.0
2-Fluorophenol	1.001	1.045		4.4	20.0
Phenol-d6	1.204	1.324		10.0	20.0
Nitrobenzene-d5	0.244	0.260		6.6	20.0
2-Fluorobiphenyl	1.512	1.514		0.1	20.0
2,4,6-Tribromophenol	0.284	0.274		-3.5	20.0
Terphenyl-d14	0.789	0.816		3.4	20.0
1,4-Dioxane	0.382	0.363		-5.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.300	152	1975	0.400	ng		0.00
7) Naphthalene-d8	10.041	136	5582	0.400	ng		#-0.01
13) Acenaphthene-d10	13.956	164	4021	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	9077	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	8166	0.400	ng		0.00
35) Perylene-d12	23.059	264	8385	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	2063	0.417	ng		-0.01
5) Phenol-d6	6.506	99	2615	0.440	ng		0.00
8) Nitrobenzene-d5	8.429	82	1449m	0.425	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3499	0.401	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	1103	0.386	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	6086	0.400	ng		-0.01
27) Fluoranthene-d10	18.775	212	9358	0.364	ng		0.00
31) Terphenyl-d14	19.407	244	6666	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	717	0.380	ng		98
3) n-Nitrosodimethylamine	3.292	42	635	0.404	ng	#	98
6) bis(2-Chloroethyl)ether	6.752	93	1927	0.386	ng		98
9) Naphthalene	10.095	128	5725	0.389	ng		99
10) Hexachlorobutadiene	10.383	225	1406	0.414	ng	#	100
12) 2-Methylnaphthalene	11.722	142	4137	0.392	ng		99
16) Acenaphthylene	13.668	152	6383	0.378	ng		100
17) Acenaphthene	14.021	154	4360	0.389	ng		99
18) Fluorene	15.015	166	6050	0.377	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	175	0.196	ng	#	56
21) 4-Bromophenyl-phenylether	15.929	248	2075	0.391	ng	#	90
22) Hexachlorobenzene	16.028	284	2587	0.415	ng		99
23) Atrazine	16.227	200	1463	0.387	ng		94
24) Pentachlorophenol	16.388	266	925	0.341	ng		86
25) Phenanthrene	16.760	178	9661	0.387	ng		100
26) Anthracene	16.860	178	8433	0.374	ng		100
28) Fluoranthene	18.808	202	12158	0.362	ng		99
30) Pyrene	19.175	202	12397	0.411	ng		100
32) Benzo(a)anthracene	20.947	228	10365	0.363	ng		99
33) Chrysene	21.000	228	11620	0.394	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4418	0.392	ng		99
36) Indeno(1,2,3-cd)pyrene	25.102	276	12024	0.367	ng		97
37) Benzo(b)fluoranthene	22.447	252	13501	0.440	ng		98
38) Benzo(k)fluoranthene	22.488	252	11908	0.394	ng		99
39) Benzo(a)pyrene	22.968	252	9314	0.369	ng		97
40) Dibenzo(a,h)anthracene	25.114	278	9233	0.357	ng		97
41) Benzo(g,h,i)perylene	25.710	276	9987	0.369	ng		97

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

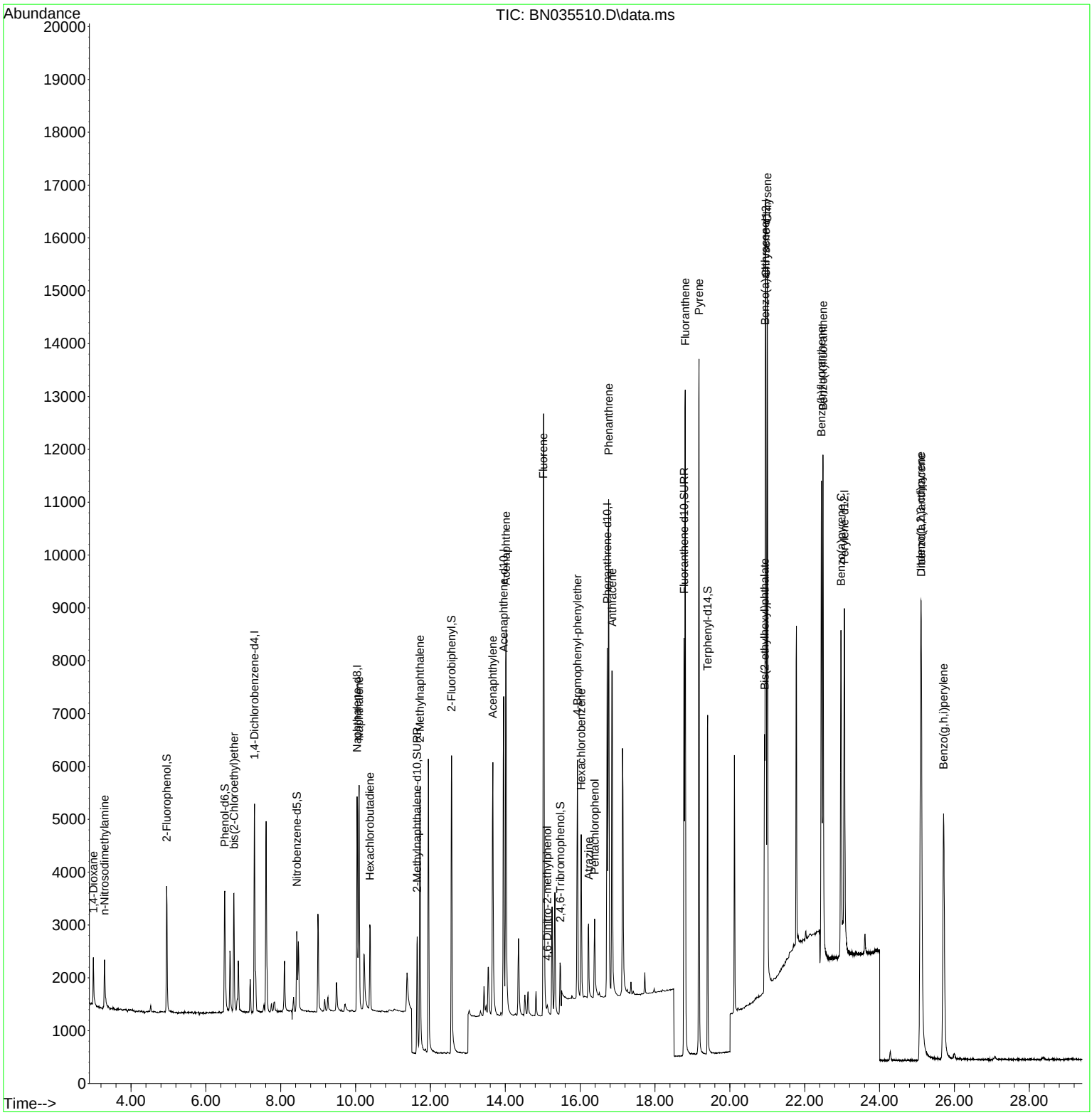
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

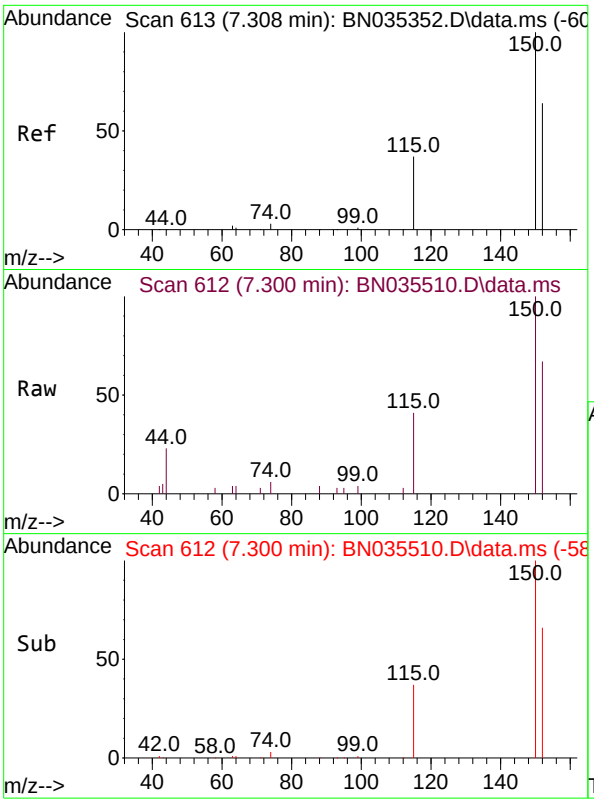
Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

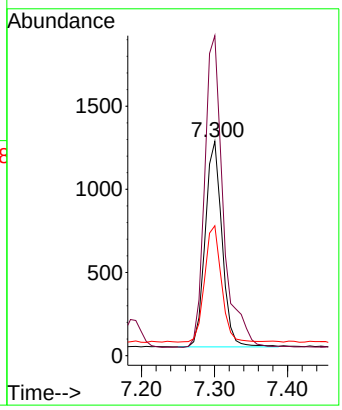




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:152 Resp: 197

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.0	186.0
115	60.6	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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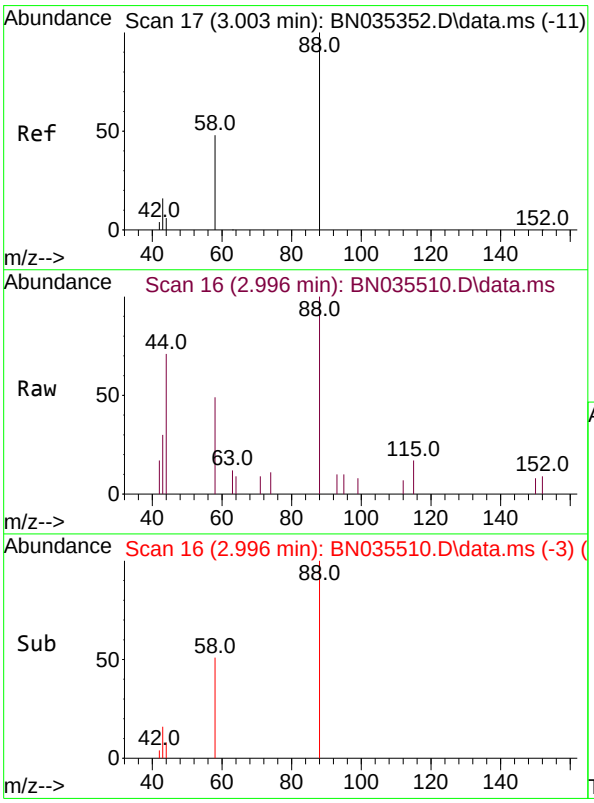
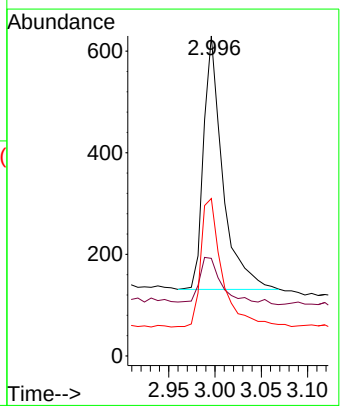
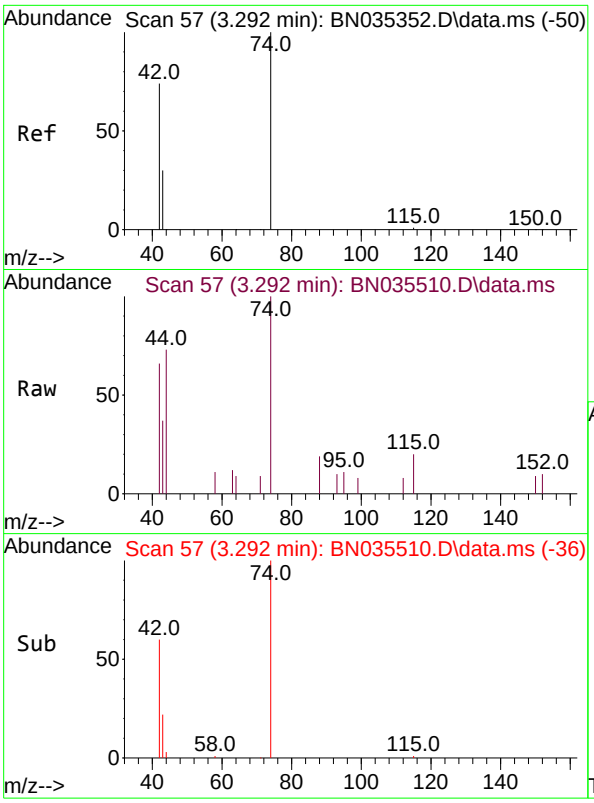


#2
1,4-Dioxane
Concen: 0.380 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 88 Resp: 717

Ion	Ratio	Lower	Upper
88	100		
43	23.3	17.2	25.8
58	56.8	44.5	66.7





#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 42 Resp: 63

Ion	Ratio	Lower	Upper
42	100		
74	159.1	124.9	187.3
44	6.5	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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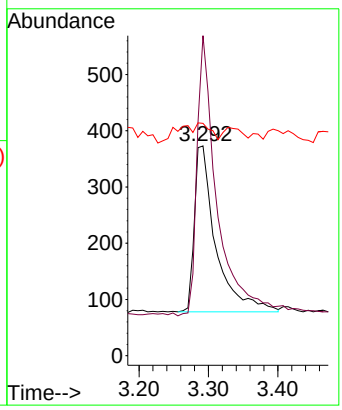
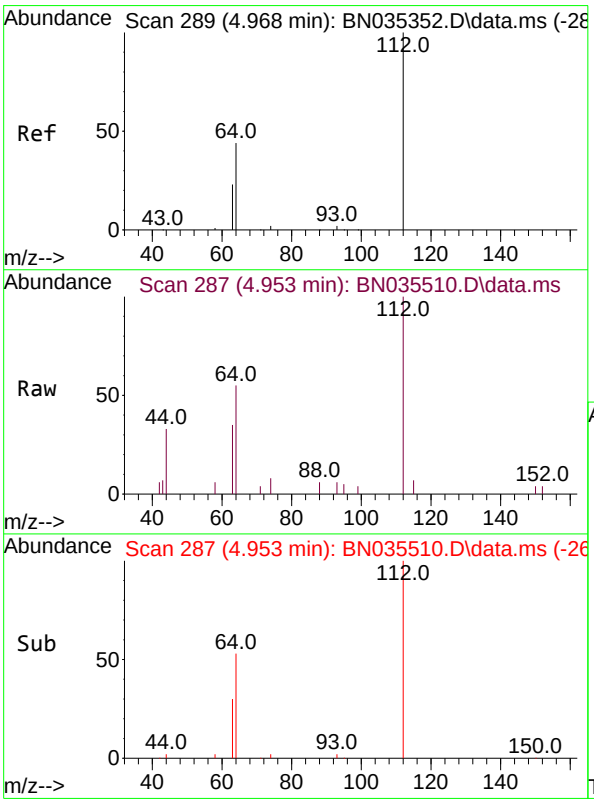
Supervised By :mohammad ahmed 12/11/2024

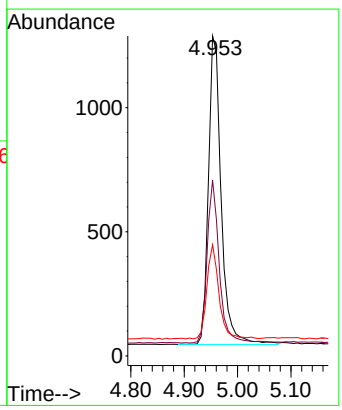


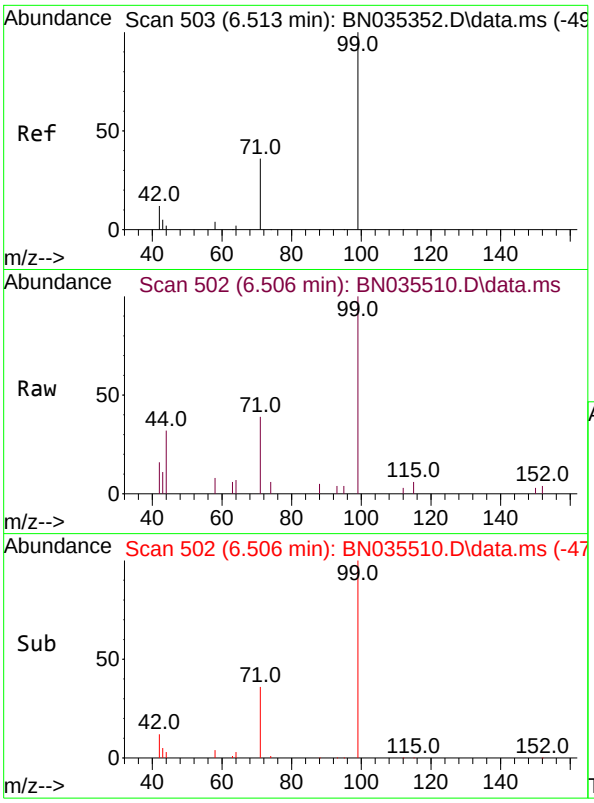


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.015 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:112 Resp: 2063

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	28.9	21.0	31.6

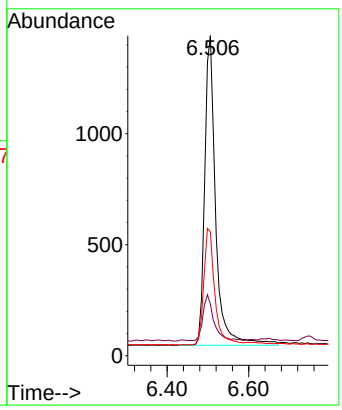




#5
Phenol-d6
Concen: 0.440 ng
RT: 6.506 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 99 Resp: 261

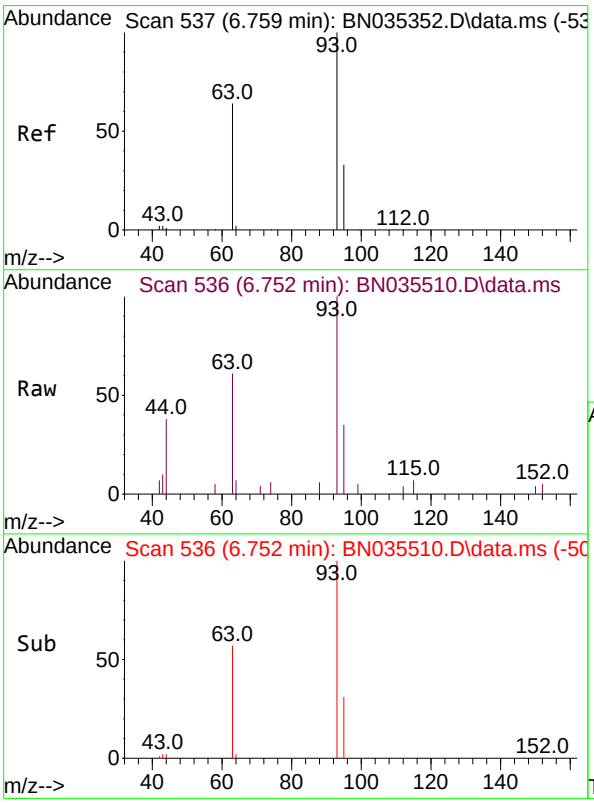
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.6	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

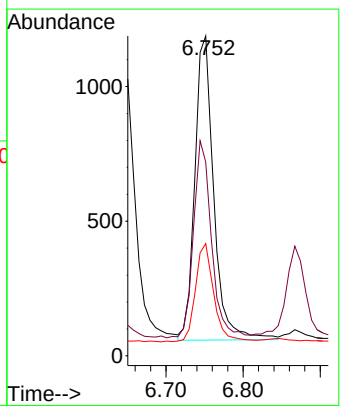
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

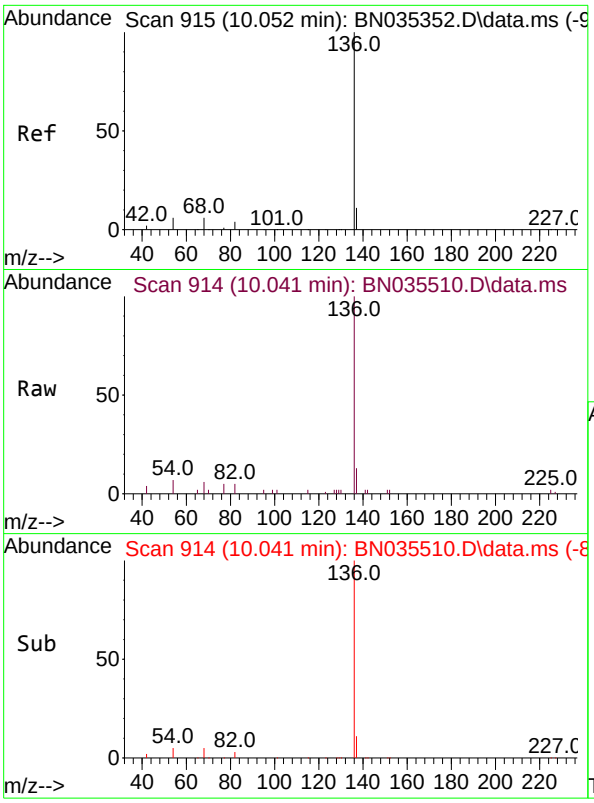


#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 93 Resp: 1927

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.4	25.7	38.5

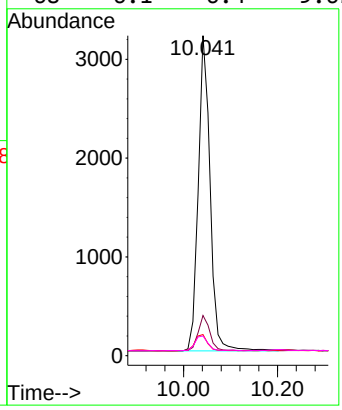




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:136 Resp: 558

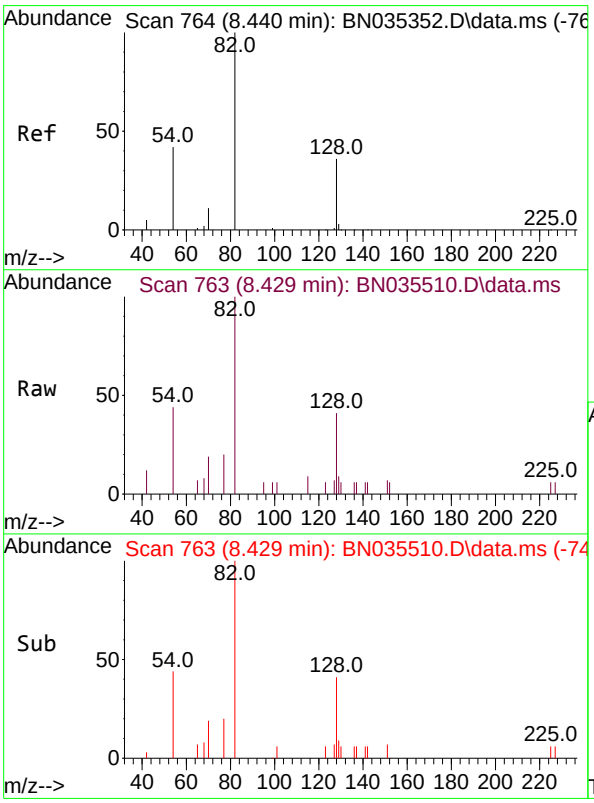
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.1	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

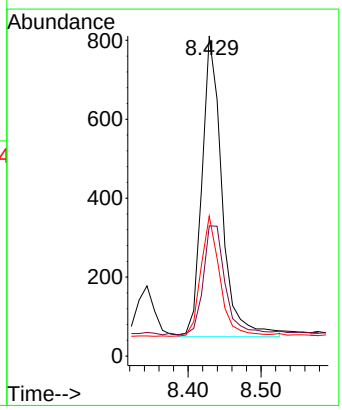
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

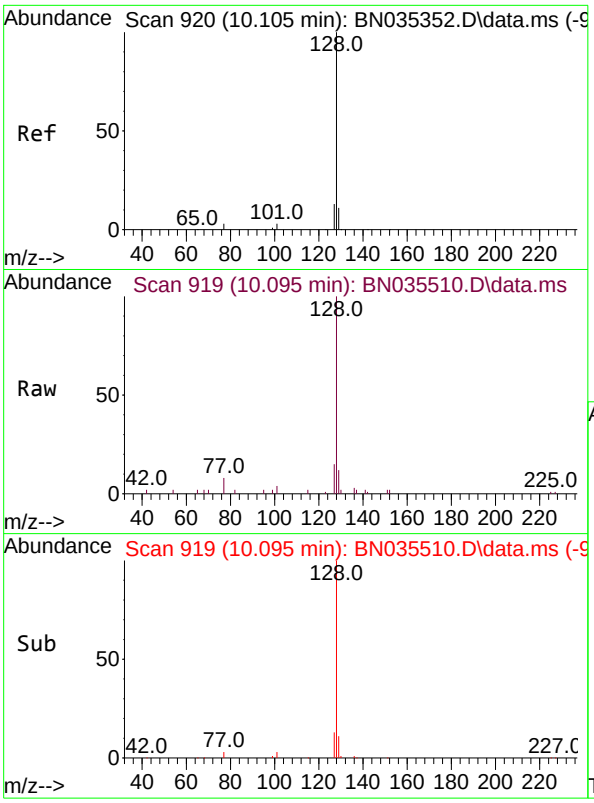


#8
Nitrobenzene-d5
Concen: 0.425 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 82 Resp: 1449

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.4	50.0
54	43.8	36.7	55.1





#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

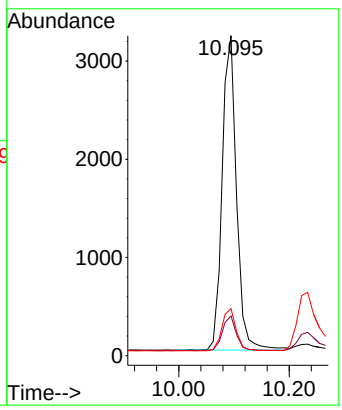
Tgt Ion:128 Resp: 572

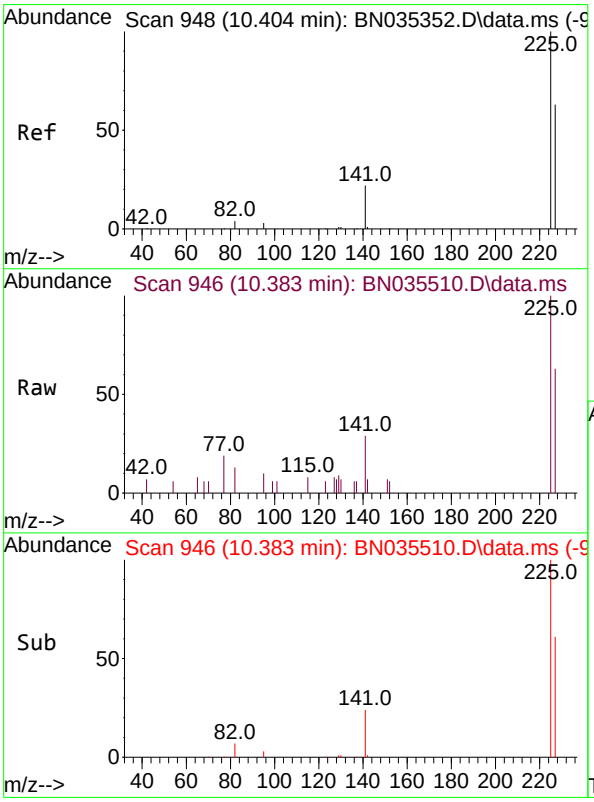
Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.7	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

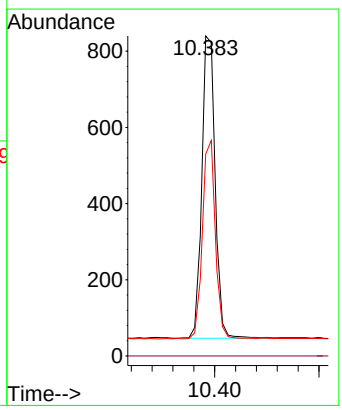


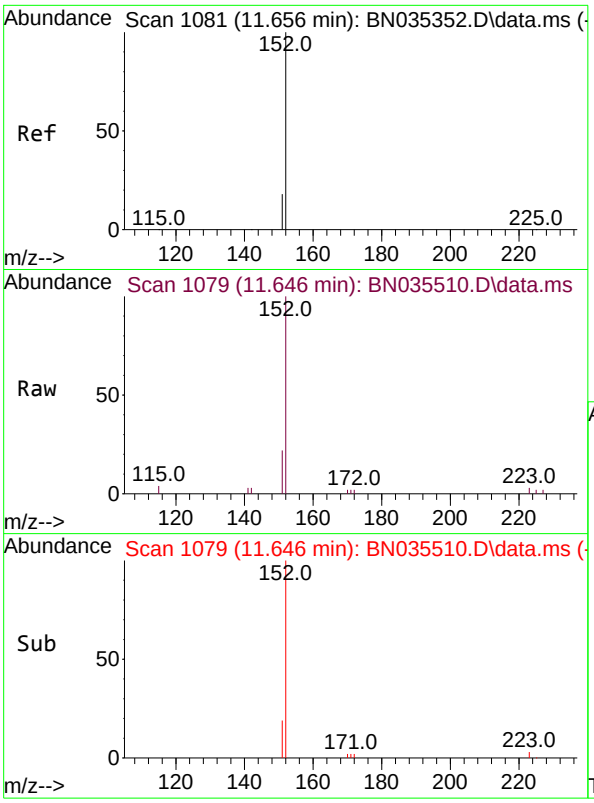


#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:225 Resp: 1406

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9

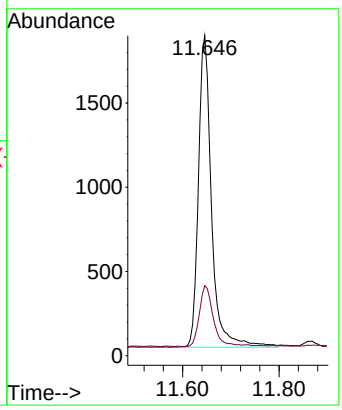




#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:152 Resp: 349

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
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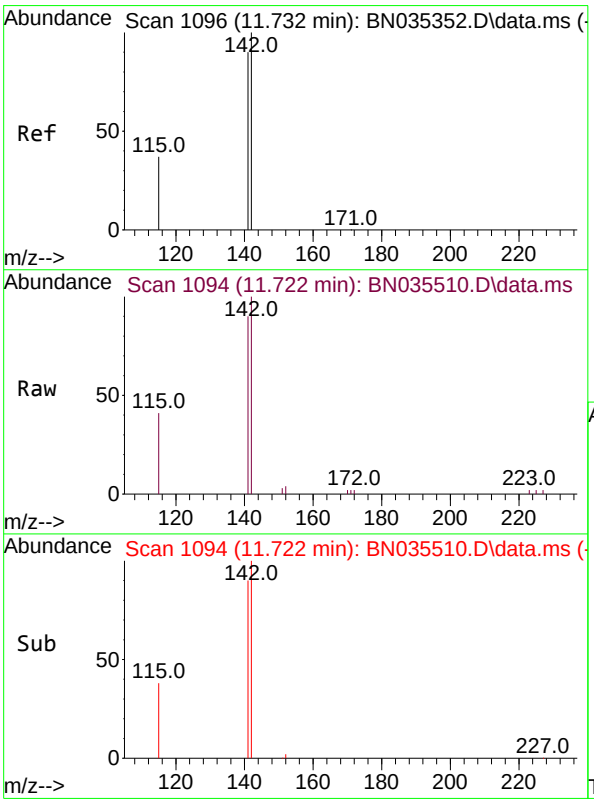
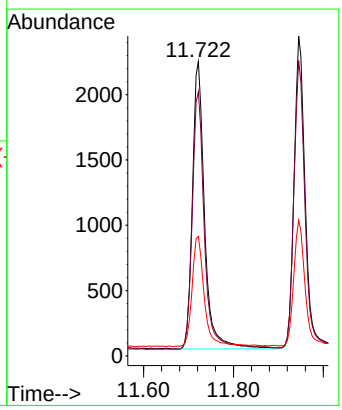
Supervised By :mohammad ahmed 12/11/2024

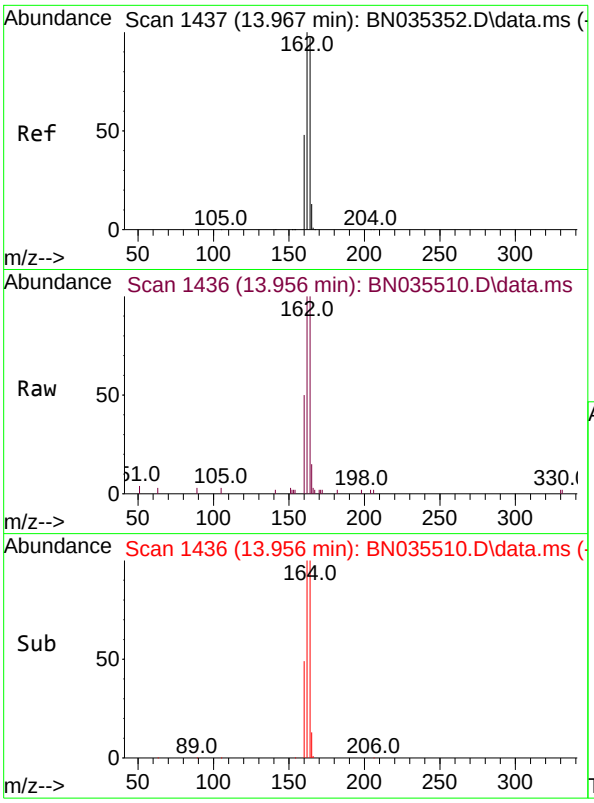


#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:142 Resp: 4137

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.6	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:164 Resp: 402

Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	50.5	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
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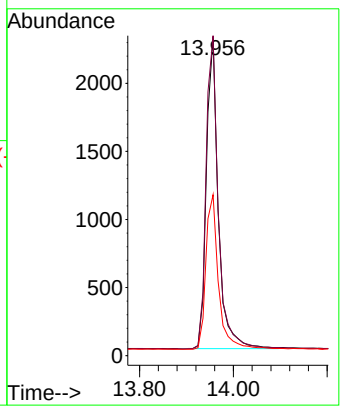
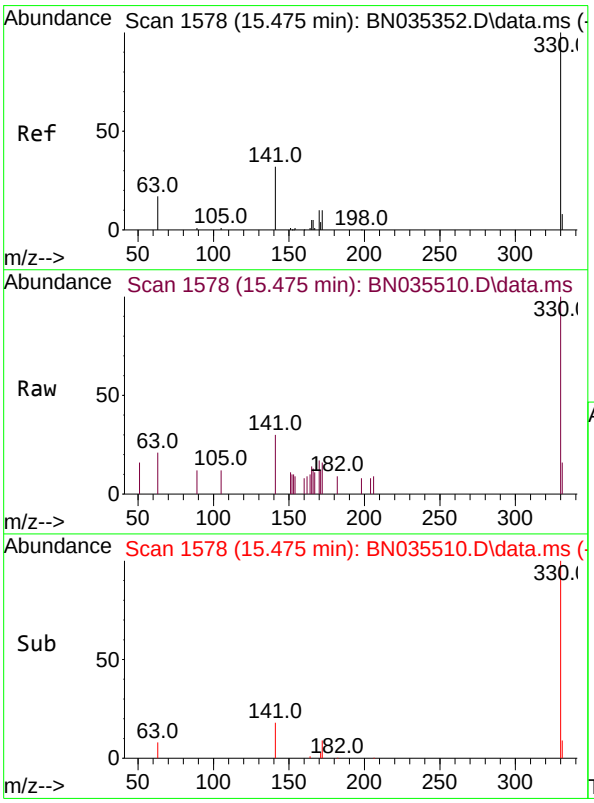
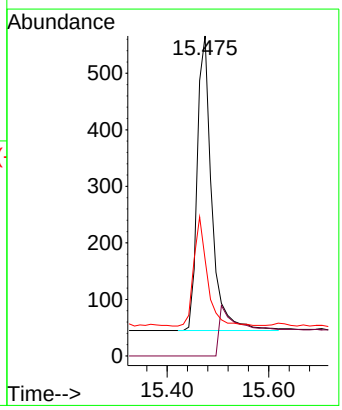


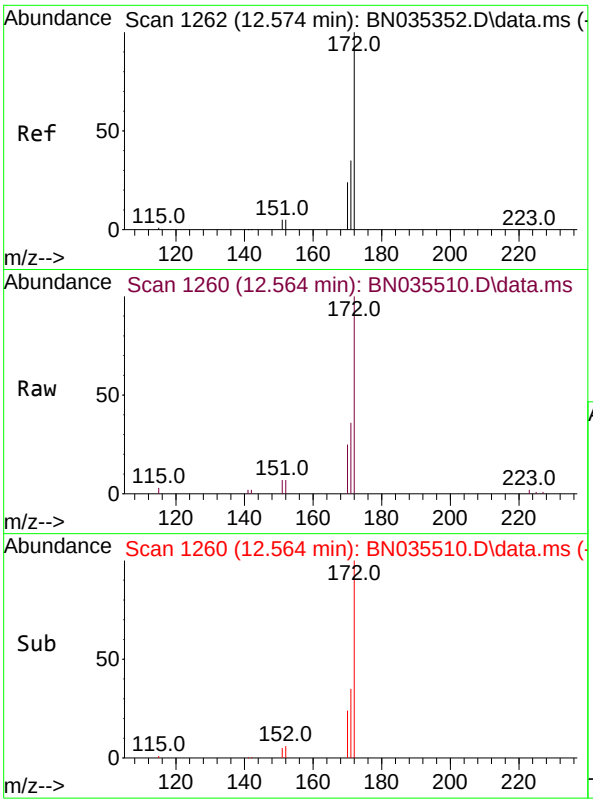


#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:330 Resp: 1103

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0

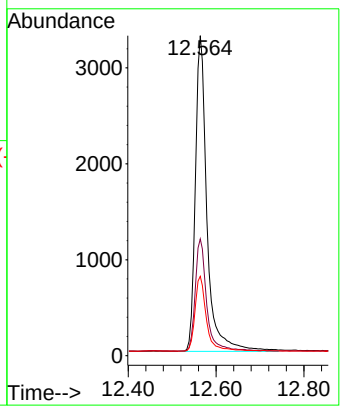




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:172 Resp: 608

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
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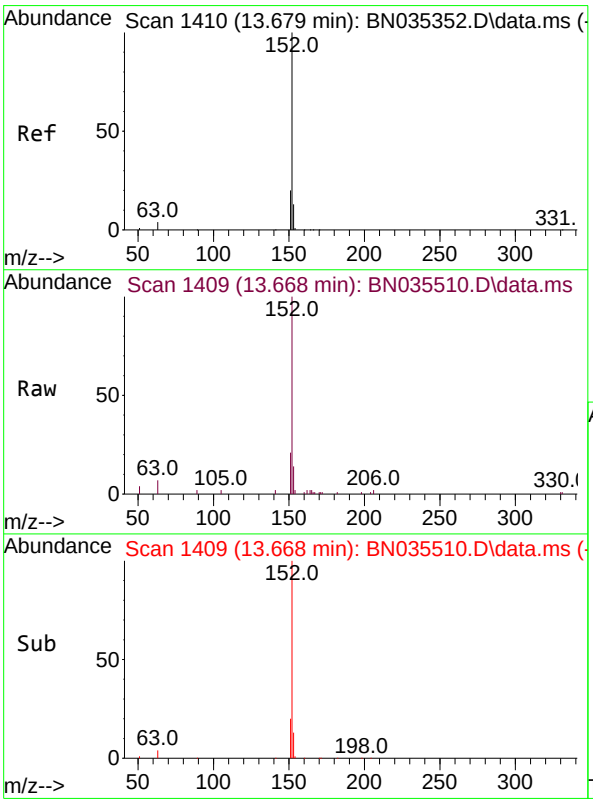
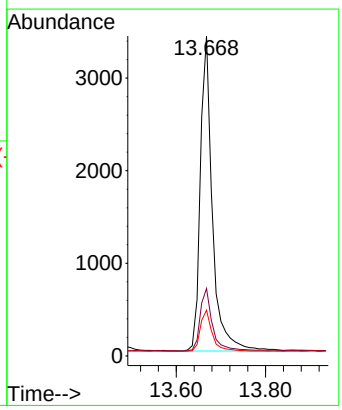
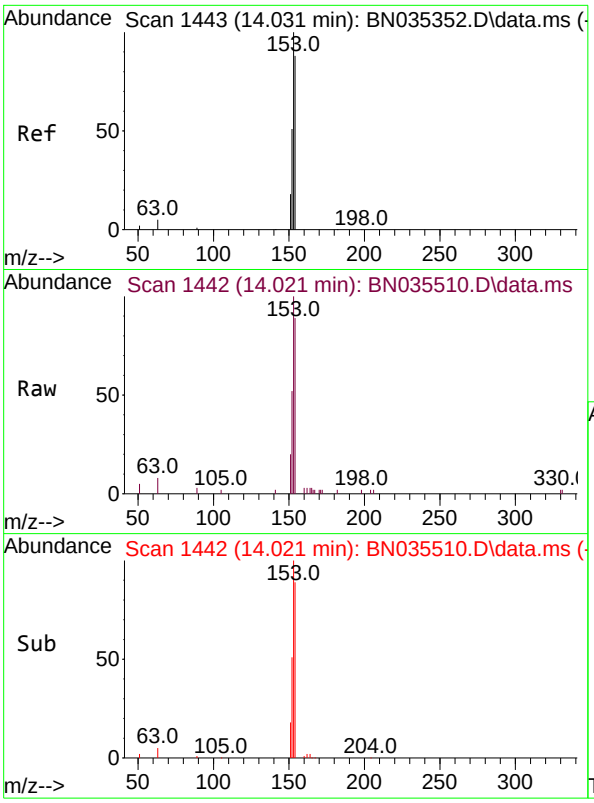


#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:152 Resp: 6383

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6

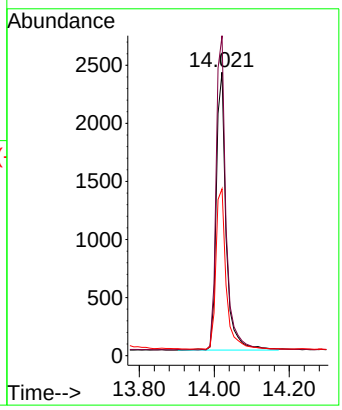




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:154 Resp: 436

Ion	Ratio	Lower	Upper
154	100		
153	114.5	92.6	139.0
152	60.1	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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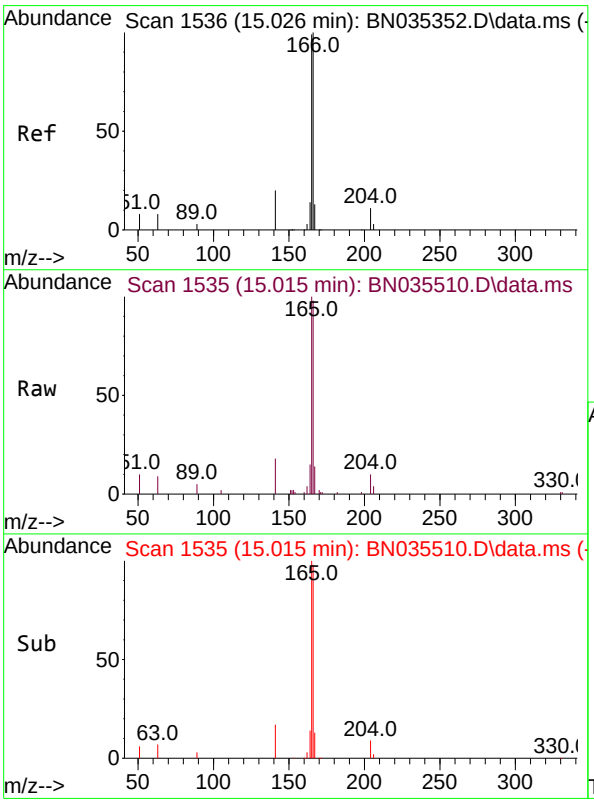
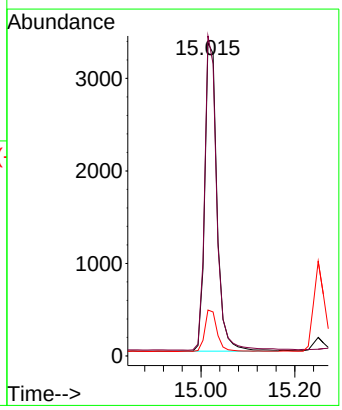
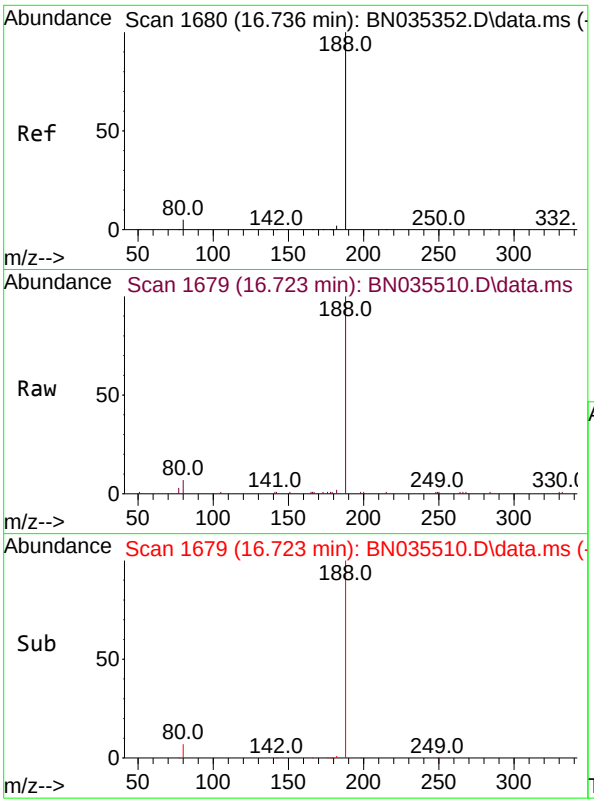


#18
Fluorene
Concen: 0.377 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:166 Resp: 6050

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.6	10.8	16.2

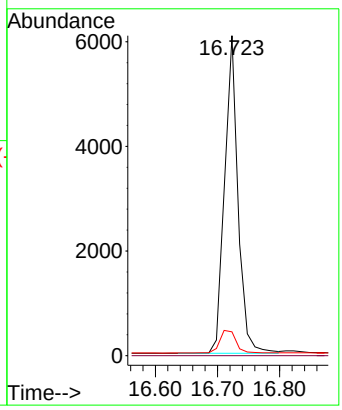




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:188 Resp: 907

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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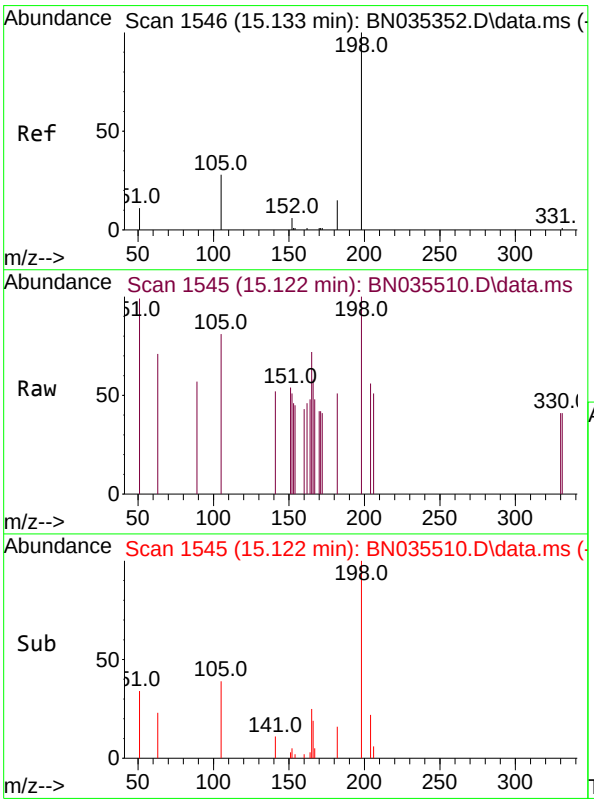
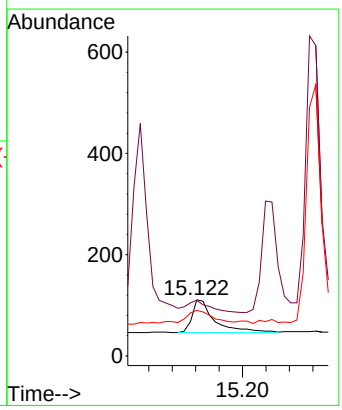
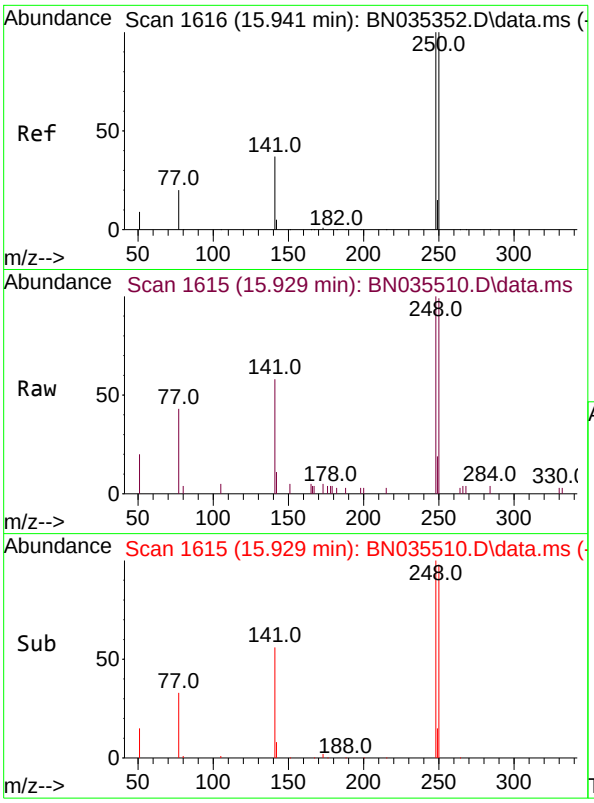


#20
4,6-Dinitro-2-methylphenol
Concen: 0.196 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:198 Resp: 175

Ion	Ratio	Lower	Upper
198	100		
51	99.1	46.5	69.7#
105	81.1	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.929 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:248 Resp: 207

Ion	Ratio	Lower	Upper
248	100		
250	98.6	80.6	120.8
141	58.1	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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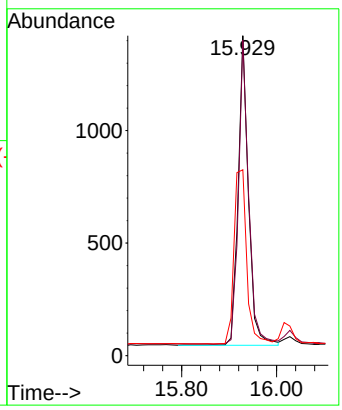
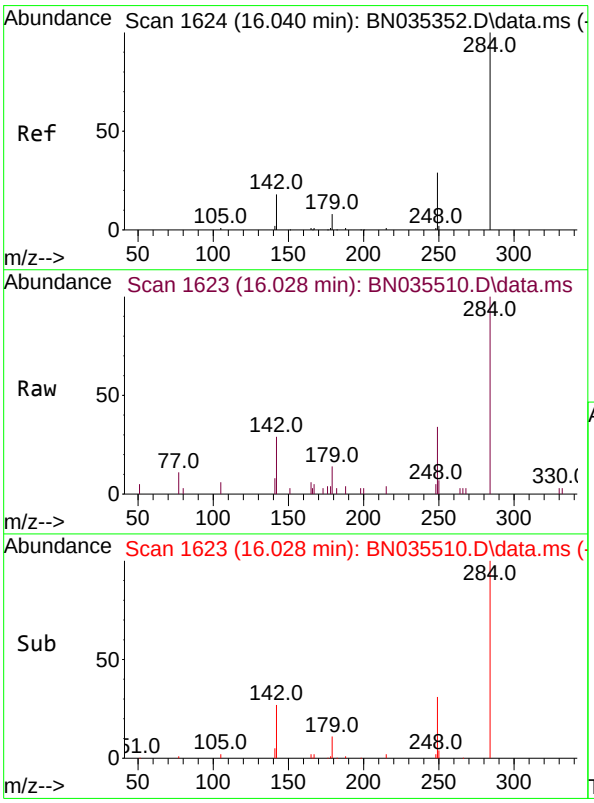
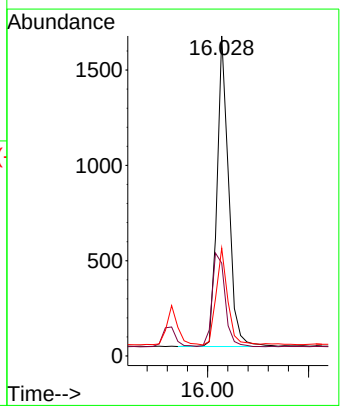


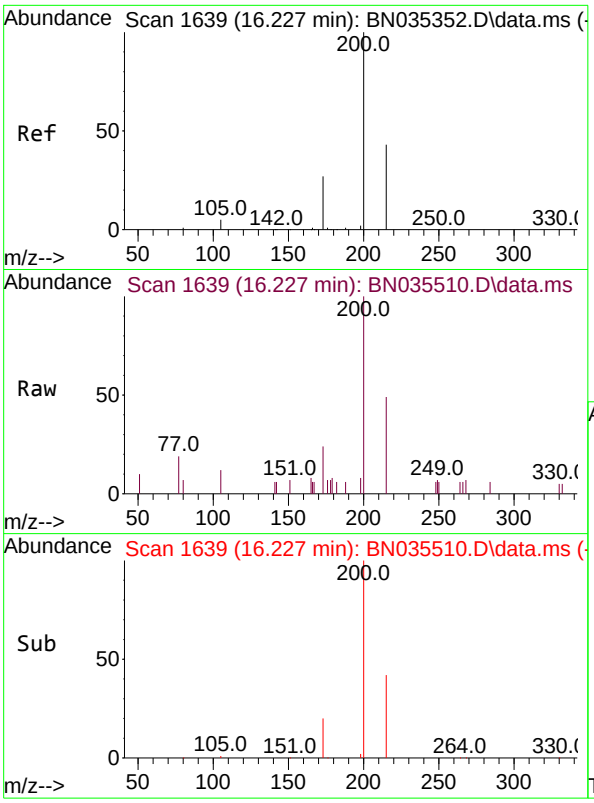


#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:284 Resp: 2587

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.7	40.1
249	31.2	24.6	36.8

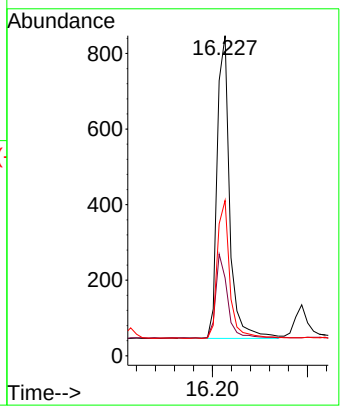




#23
Atrazine
Concen: 0.387 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:200 Resp: 146

Ion	Ratio	Lower	Upper
200	100		
173	24.3	24.1	36.1
215	48.5	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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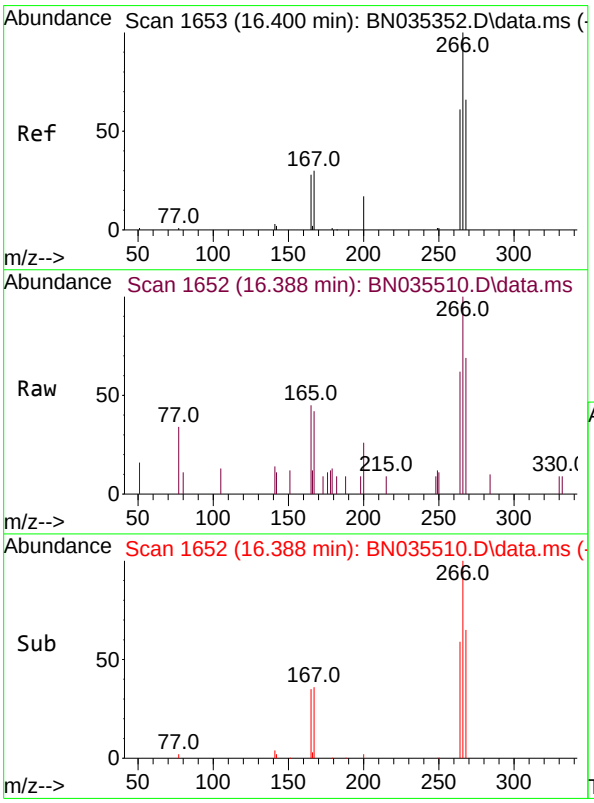
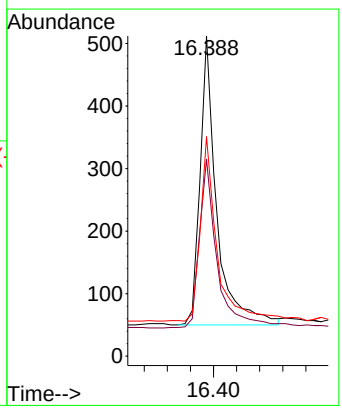
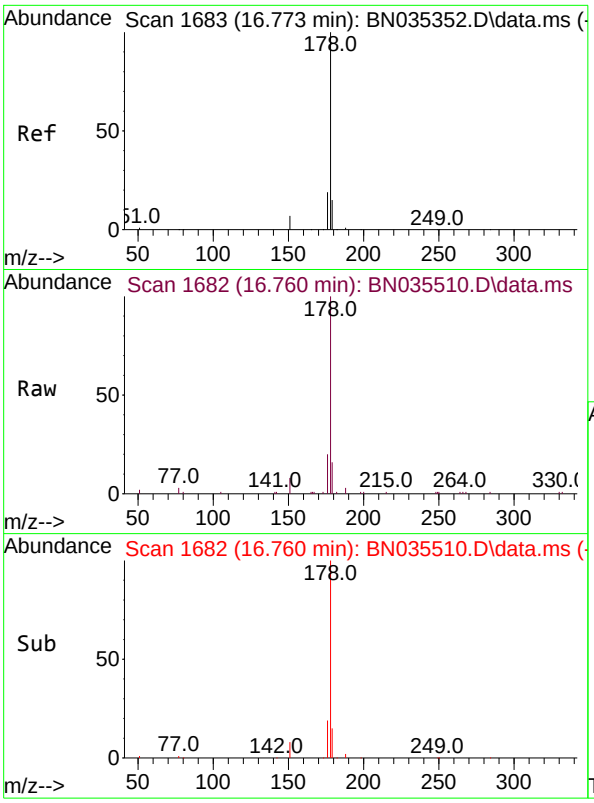


#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:266 Resp: 925

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	64.3	43.3	64.9

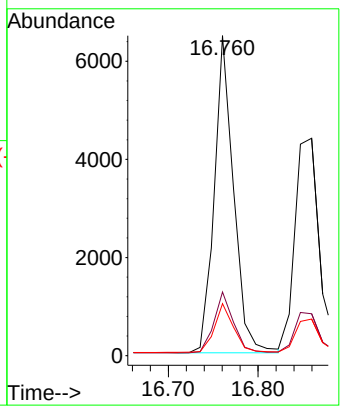




#25
Phenanthrene
Concen: 0.387 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:178 Resp: 966

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.6	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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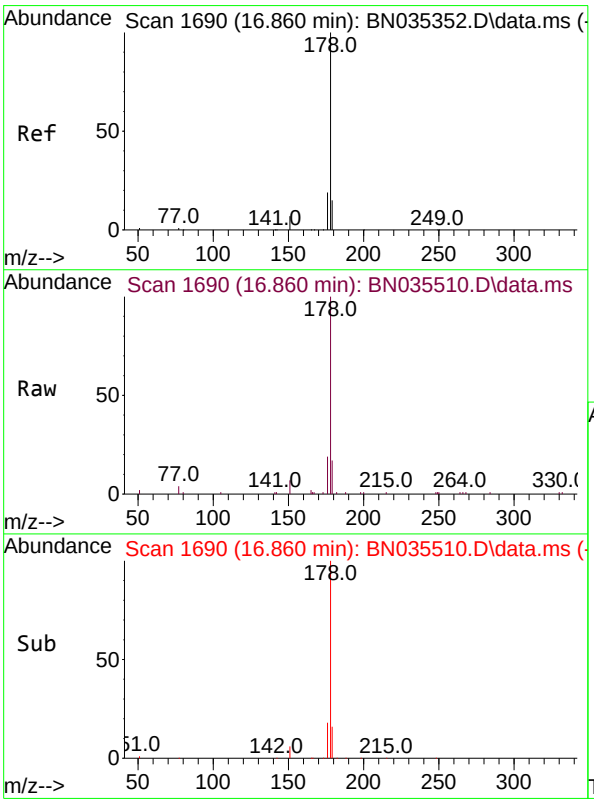
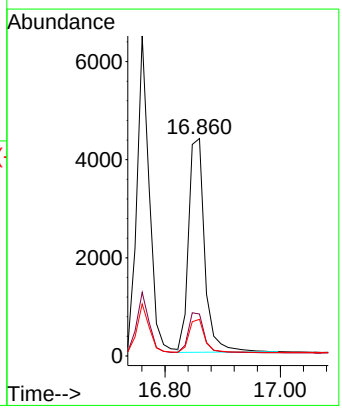
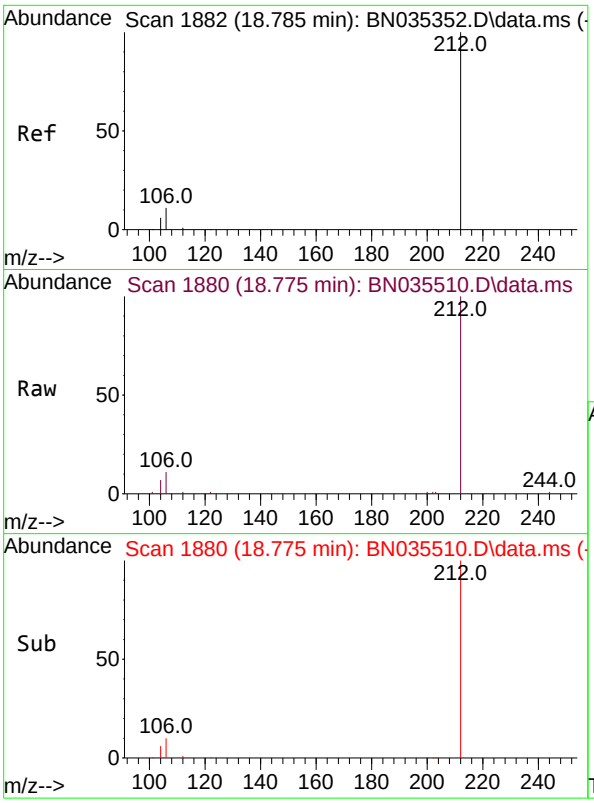


#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:178 Resp: 8433

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8

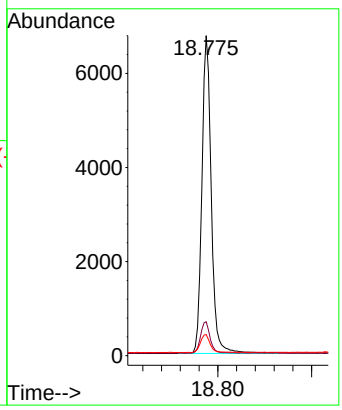




#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:212 Resp: 935

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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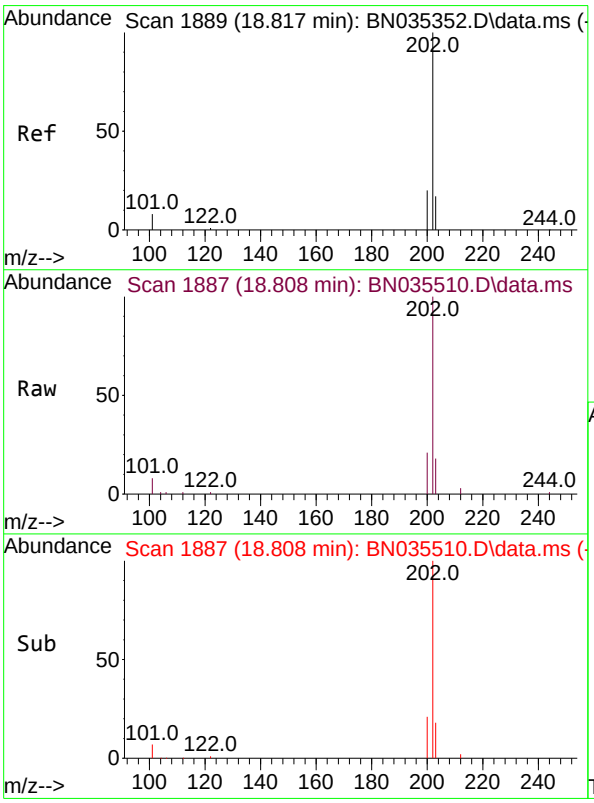
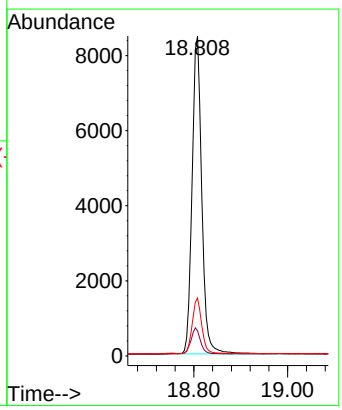
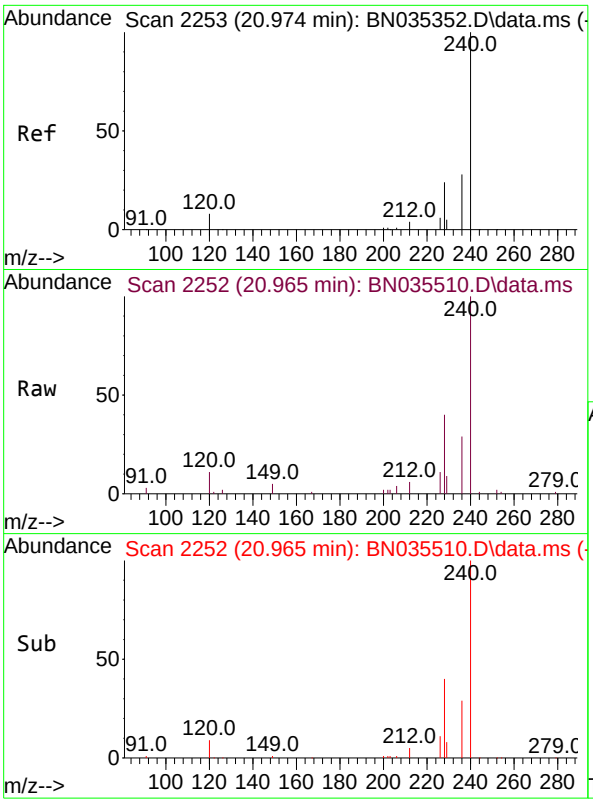


#28
Fluoranthene
Concen: 0.362 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:202 Resp: 12158

Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.4	11.0
203	17.0	13.7	20.5

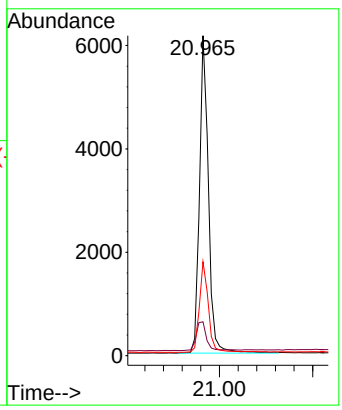




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:240 Resp: 816

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.9	11.9
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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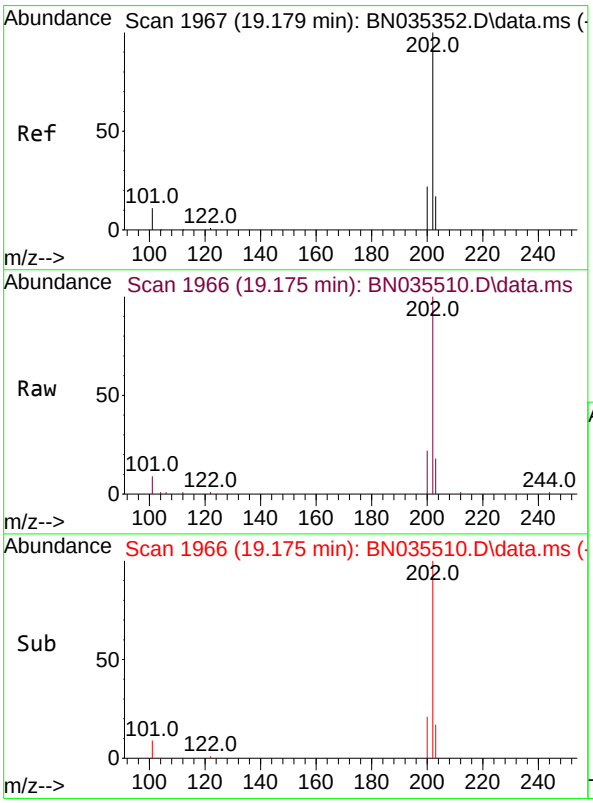
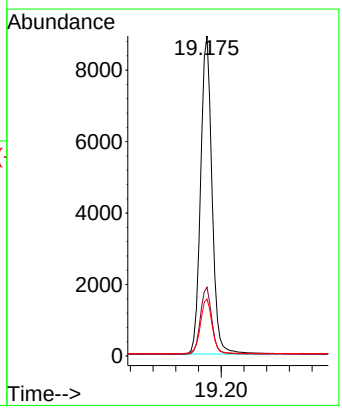
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

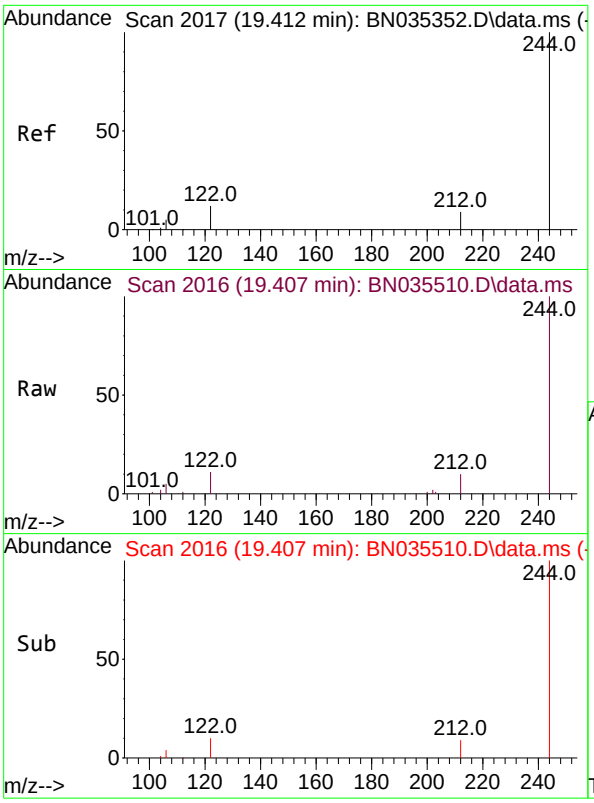


#30
Pyrene
Concen: 0.411 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:202 Resp: 12397

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.7	14.3	21.5

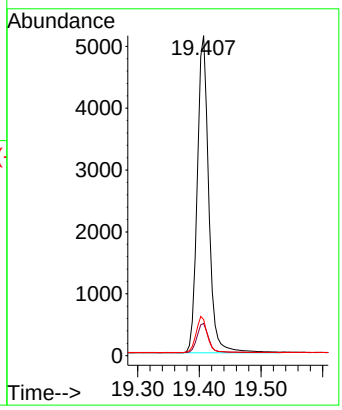




#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:244 Resp: 666

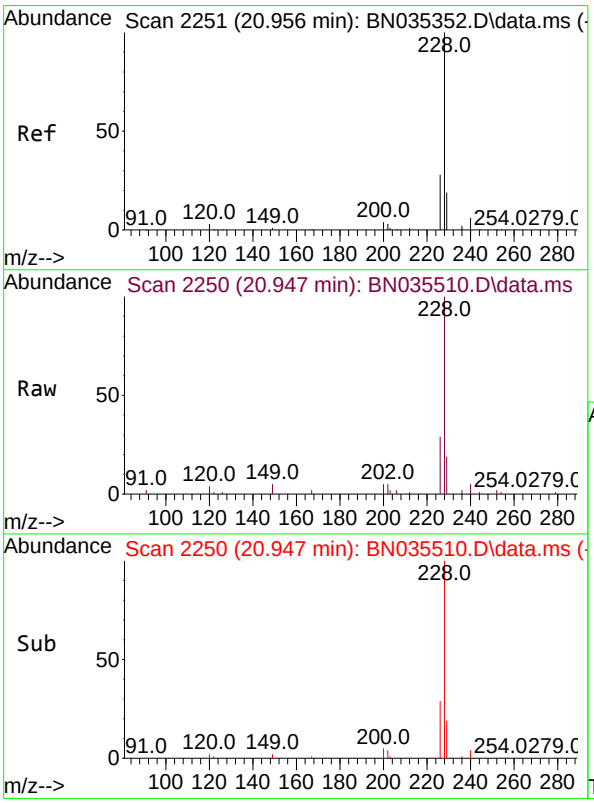
Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	11.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

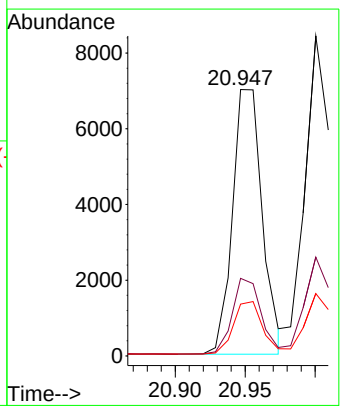
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

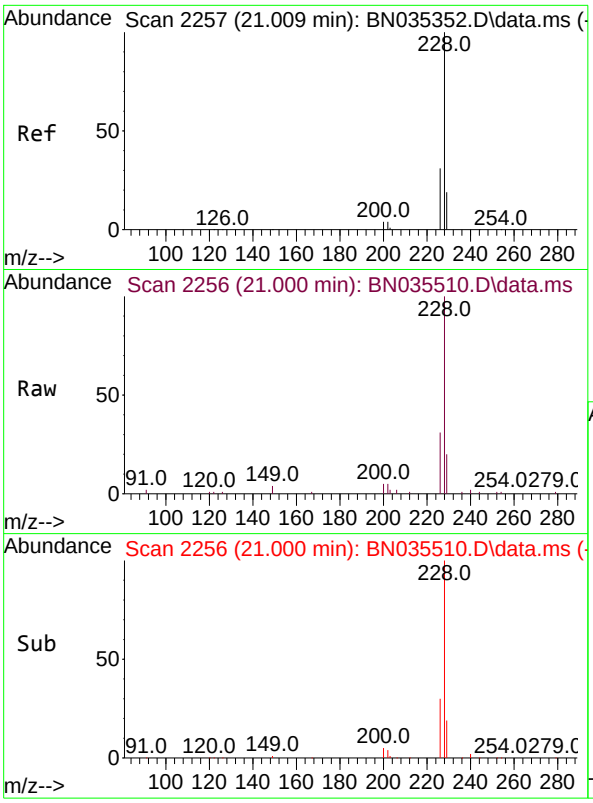


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:228 Resp: 10365

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.5	33.7
229	19.5	15.8	23.8

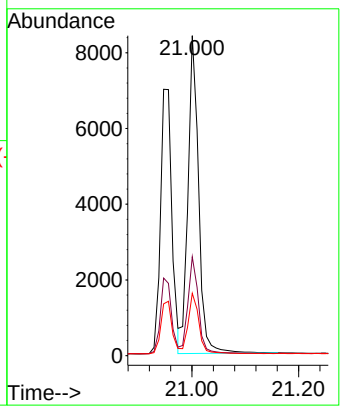




#33
Chrysene
Concen: 0.394 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:228 Resp: 1162

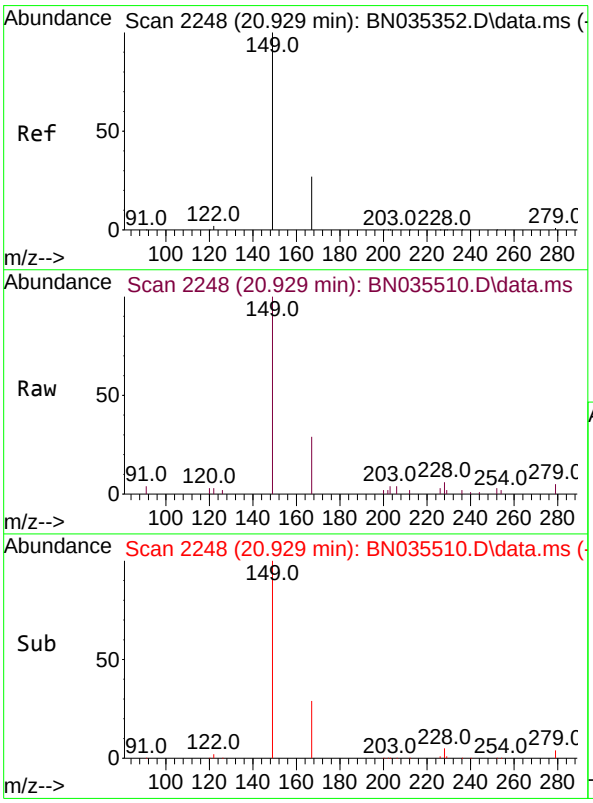
Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

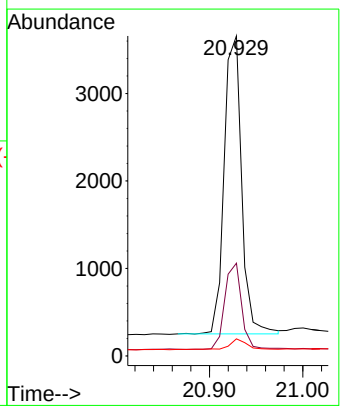
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

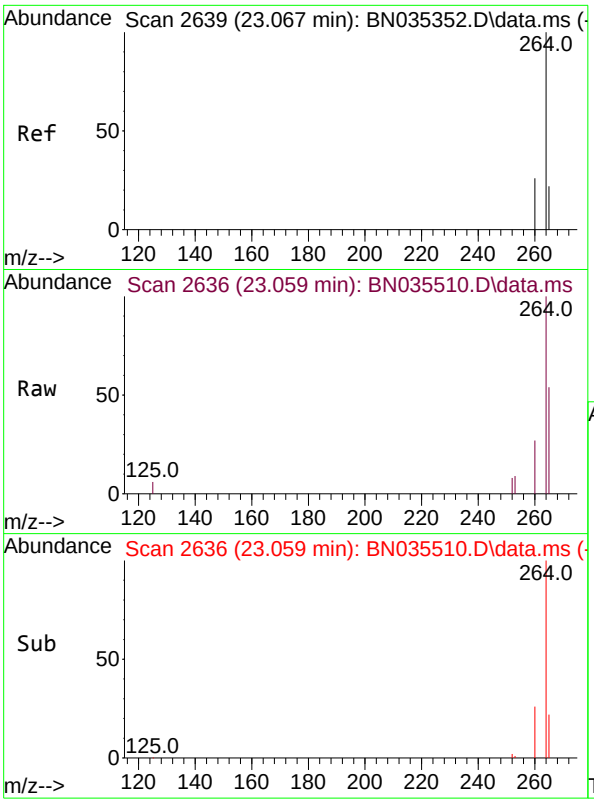


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.392 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:149 Resp: 4418

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.4	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

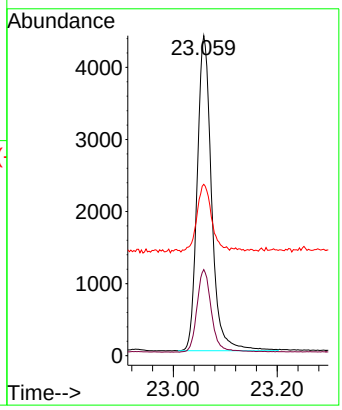
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

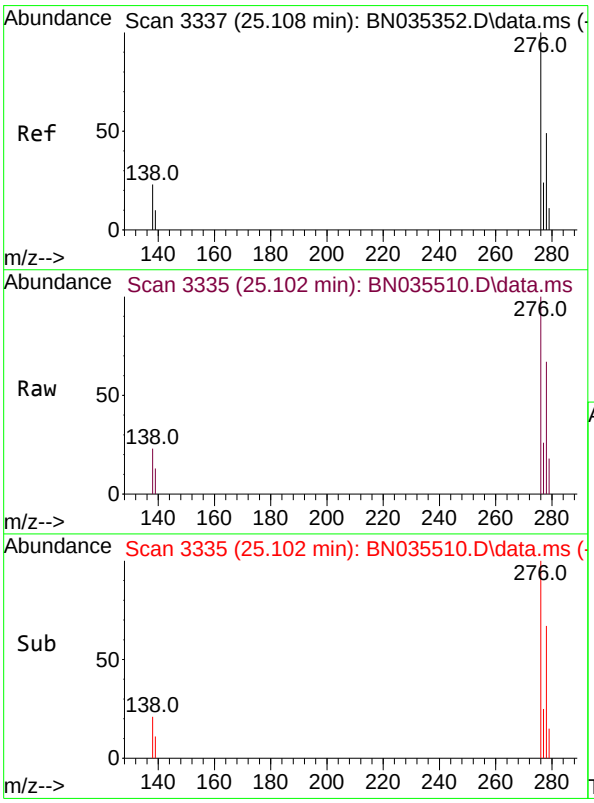
Tgt Ion:264 Resp: 838

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	53.6	40.2	60.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

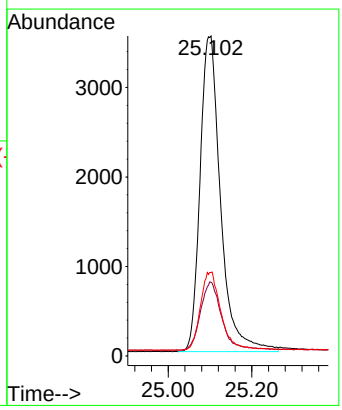


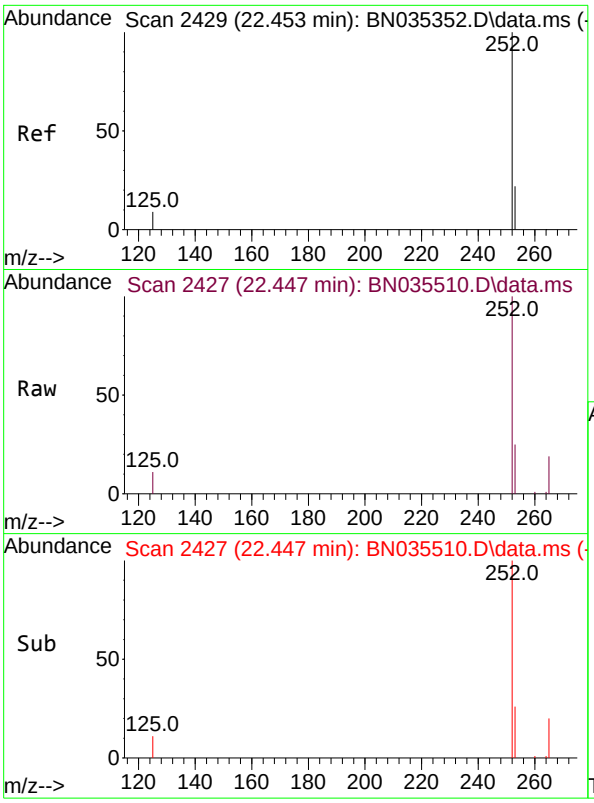


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:276 Resp: 12024

Ion	Ratio	Lower	Upper
276	100		
138	21.7	19.4	29.0
277	24.6	19.8	29.6

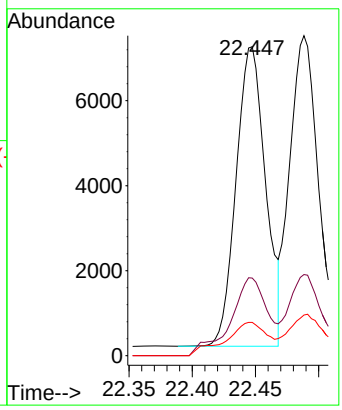




#37
Benzo(b)fluoranthene
Concen: 0.440 ng
RT: 22.447 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:252 Resp: 1350

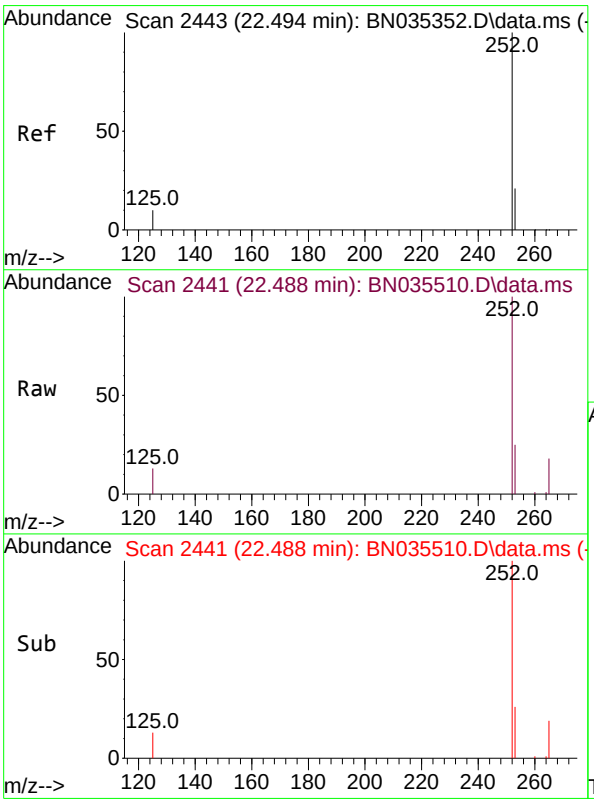
Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.6	29.4
125	10.8	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

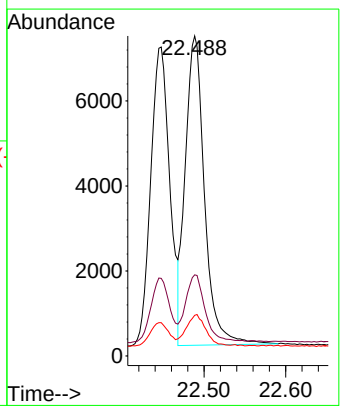
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

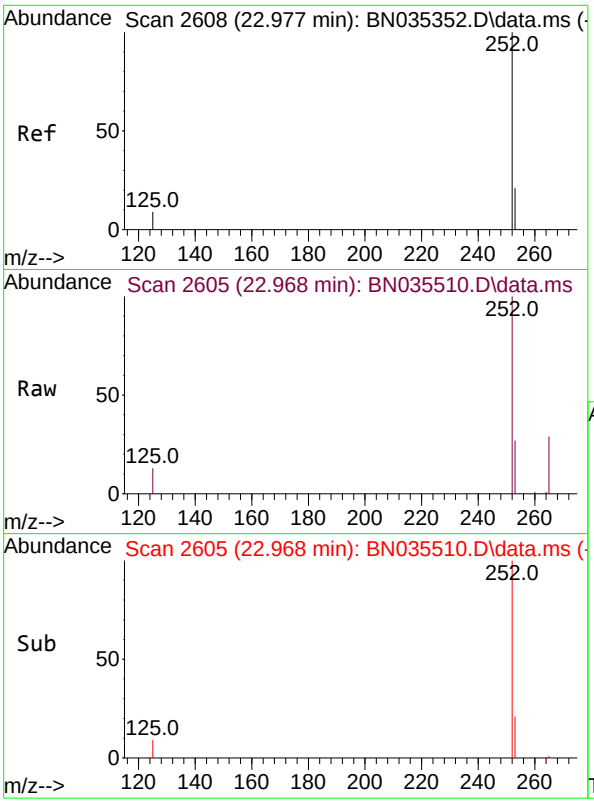


#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:252 Resp: 11908

Ion	Ratio	Lower	Upper
252	100		
253	25.4	19.5	29.3
125	12.7	10.2	15.4





#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

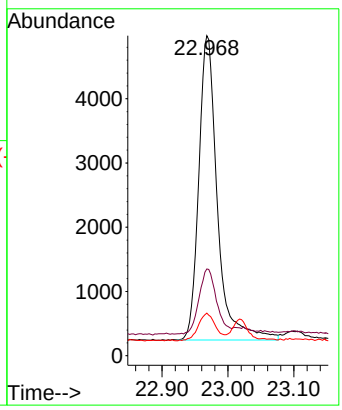
Tgt Ion:252 Resp: 931

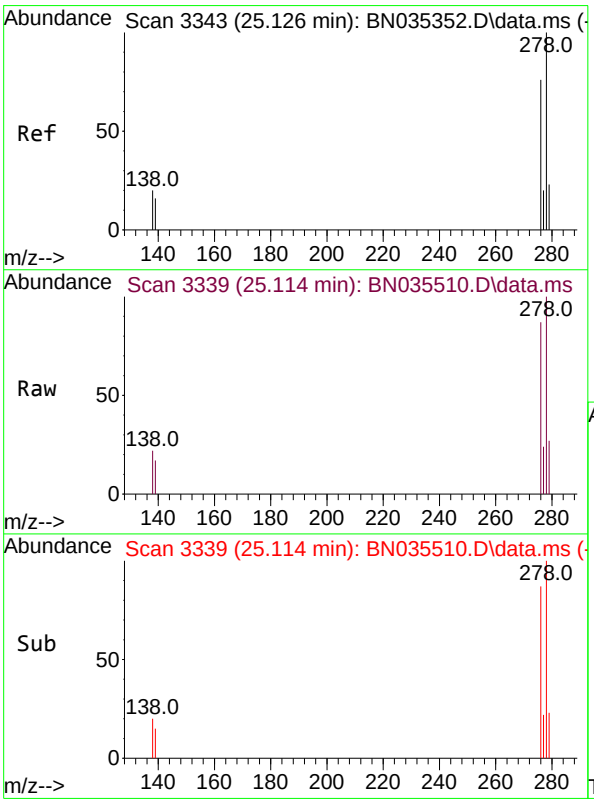
Ion	Ratio	Lower	Upper
252	100		
253	27.1	20.2	30.4
125	13.3	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

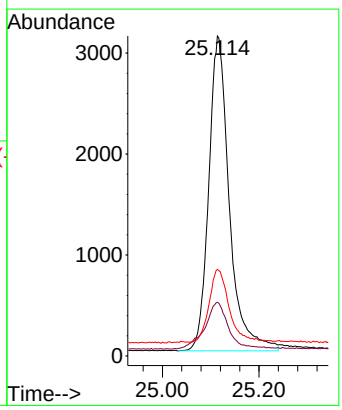


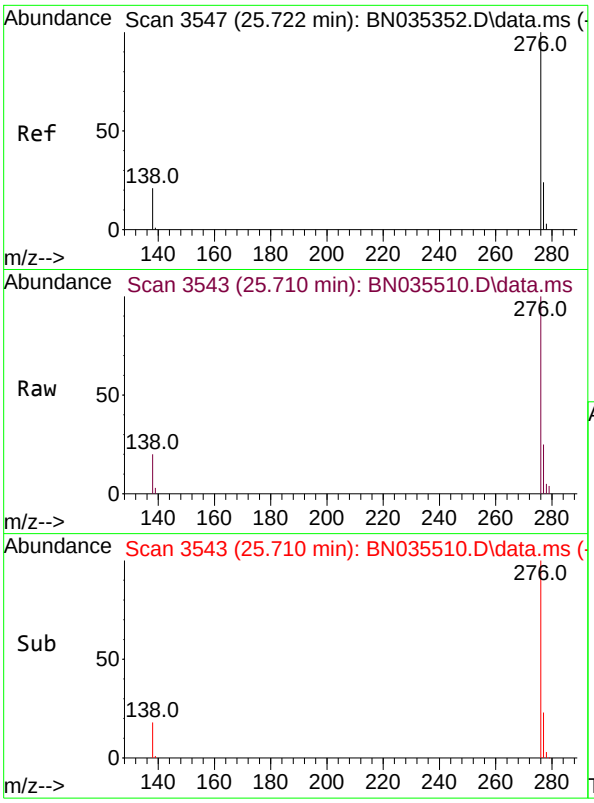


#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 25.114 min Scan# 3339
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:278 Resp: 9233

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	27.0	20.5	30.7

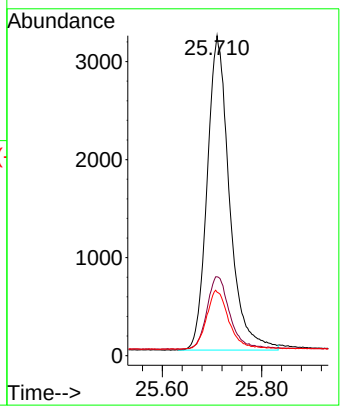




#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:276 Resp: 998

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	19.9	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Sample Results: **BN035510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.382	0.363	5.0	93	0.00
3		n-Nitrosodimethylamine	0.319	0.322	-0.9	95	0.00
4	S	2-Fluorophenol	1.001	1.045	-4.4	99	-0.01
5	S	Phenol-d6	1.204	1.324	-10.0	107	0.00
6		bis(2-Chloroethyl)ether	1.012	0.976	3.6	95	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	107	-0.01
8	S	Nitrobenzene-d5	0.244	0.260	-6.6	118	-0.01
9		Naphthalene	1.055	1.026	2.7	105	-0.01
10		Hexachlorobutadiene	0.243	0.252	-3.7	109	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.627	-0.2	108	-0.01
12		2-Methylnaphthalene	0.755	0.741	1.9	107	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	106	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.274	3.5	113	0.00
15	S	2-Fluorobiphenyl	1.512	1.514	-0.1	106	-0.01
16		Acenaphthylene	1.680	1.587	5.5	105	-0.01
17		Acenaphthene	1.115	1.084	2.8	106	-0.01
18		Fluorene	1.596	1.505	5.7	103	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	96	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.019	51.3#	52	-0.01
21		4-Bromophenyl-phenylether	0.234	0.229	2.1	97	-0.01
22		Hexachlorobenzene	0.275	0.285	-3.6	100	-0.01
23		Atrazine	0.167	0.161	3.6	100	0.00
24		Pentachlorophenol	0.120	0.102	15.0	102	-0.01
25		Phenanthrene	1.099	1.064	3.2	95	-0.01
26		Anthracene	0.994	0.929	6.5	95	0.00
27	SURR	Fluoranthene-d10	1.134	1.031	9.1	92	0.00
28		Fluoranthene	1.481	1.339	9.6	90	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	86	0.00
30		Pyrene	1.477	1.518	-2.8	88	0.00
31	S	Terphenyl-d14	0.789	0.816	-3.4	88	0.00
32		Benzo(a)anthracene	1.399	1.269	9.3	80	0.00
33		Chrysene	1.443	1.423	1.4	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.541	2.2	90	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.434	8.3	72	0.00
37		Benzo(b)fluoranthene	1.463	1.610	-10.0	95	0.00
38		Benzo(k)fluoranthene	1.440	1.420	1.4	78	0.00
39	C	Benzo(a)pyrene	1.205	1.111	7.8	75	0.00
40		Dibenzo(a,h)anthracene	1.234	1.101	10.8	71	-0.01
41		Benzo(g,h,i)perylene	1.289	1.191	7.6	74	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN035510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	96	0.00
2		1,4-Dioxane	0.400	0.380	5.0	93	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	95	0.00
4	S	2-Fluorophenol	0.400	0.417	-4.2	99	-0.01
5	S	Phenol-d6	0.400	0.440	-10.0	107	0.00
6		bis(2-Chloroethyl)ether	0.400	0.386	3.5	95	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	107	-0.01
8	S	Nitrobenzene-d5	0.400	0.425	-6.2	118	-0.01
9		Naphthalene	0.400	0.389	2.8	105	-0.01
10		Hexachlorobutadiene	0.400	0.414	-3.5	109	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.401	-0.3	108	-0.01
12		2-Methylnaphthalene	0.400	0.392	2.0	107	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	106	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.386	3.5	113	0.00
15	S	2-Fluorobiphenyl	0.400	0.400	0.0	106	-0.01
16		Acenaphthylene	0.400	0.378	5.5	105	-0.01
17		Acenaphthene	0.400	0.389	2.8	106	-0.01
18		Fluorene	0.400	0.377	5.8	103	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	96	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.196	51.0#	52	-0.01
21		4-Bromophenyl-phenylether	0.400	0.391	2.3	97	-0.01
22		Hexachlorobenzene	0.400	0.415	-3.7	100	-0.01
23		Atrazine	0.400	0.387	3.3	100	0.00
24		Pentachlorophenol	0.400	0.341	14.8	102	-0.01
25		Phenanthrene	0.400	0.387	3.3	95	-0.01
26		Anthracene	0.400	0.374	6.5	95	0.00
27	SURR	Fluoranthene-d10	0.400	0.364	9.0	92	0.00
28		Fluoranthene	0.400	0.362	9.5	90	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	86	0.00
30		Pyrene	0.400	0.411	-2.7	88	0.00
31	S	Terphenyl-d14	0.400	0.414	-3.5	88	0.00
32		Benzo(a)anthracene	0.400	0.363	9.3	80	0.00
33		Chrysene	0.400	0.394	1.5	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.392	2.0	90	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	72	0.00
37		Benzo(b)fluoranthene	0.400	0.440	-10.0	95	0.00
38		Benzo(k)fluoranthene	0.400	0.394	1.5	78	0.00
39	C	Benzo(a)pyrene	0.400	0.369	7.8	75	0.00
40		Dibenzo(a,h)anthracene	0.400	0.357	10.8	71	-0.01
41		Benzo(g,h,i)perylene	0.400	0.369	7.8	74	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG No.: P5166

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 00:55

Lab File ID: BN035523.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.625		-0.2	50.0
Fluoranthene-d10	1.134	1.005		-11.4	50.0
2-Fluorophenol	1.001	1.013		1.2	50.0
Phenol-d6	1.204	1.247		3.6	50.0
Nitrobenzene-d5	0.244	0.265		8.6	50.0
2-Fluorobiphenyl	1.512	1.447		-4.3	50.0
2,4,6-Tribromophenol	0.284	0.266		-6.3	50.0
Terphenyl-d14	0.789	0.812		2.9	50.0
1,4-Dioxane	0.382	0.386		1.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.301	152	1809	0.400	ng		0.00
7) Naphthalene-d8	10.041	136	4948	0.400	ng		-0.01
13) Acenaphthene-d10	13.957	164	3762	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	8986	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	7813	0.400	ng		0.00
35) Perylene-d12	23.056	264	7976	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	1833	0.405	ng		-0.01
5) Phenol-d6	6.506	99	2256	0.414	ng		0.00
8) Nitrobenzene-d5	8.429	82	1313m	0.434	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3094	0.400	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	1002	0.375	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	5445	0.383	ng		-0.01
27) Fluoranthene-d10	18.775	212	9035	0.355	ng		0.00
31) Terphenyl-d14	19.407	244	6345	0.412	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	698	0.404	ng		98
3) n-Nitrosodimethylamine	3.292	42	617	0.428	ng	#	95
6) bis(2-Chloroethyl)ether	6.752	93	1719	0.376	ng		100
9) Naphthalene	10.095	128	5071	0.389	ng		99
10) Hexachlorobutadiene	10.383	225	1254	0.417	ng	#	99
12) 2-Methylnaphthalene	11.722	142	3664	0.392	ng		99
16) Acenaphthylene	13.668	152	5848	0.370	ng		99
17) Acenaphthene	14.021	154	4030	0.384	ng		100
18) Fluorene	15.026	166	5811	0.387	ng		99
20) 4,6-Dinitro-2-methylph...	15.133	198	248	0.281	ng	#	70
21) 4-Bromophenyl-phenylether	15.929	248	2058	0.392	ng	#	87
22) Hexachlorobenzene	16.028	284	2505	0.406	ng		99
23) Atrazine	16.227	200	1338	0.358	ng		95
24) Pentachlorophenol	16.388	266	807	0.301	ng		88
25) Phenanthrene	16.760	178	9239	0.374	ng		100
26) Anthracene	16.860	178	8006	0.359	ng		100
28) Fluoranthene	18.808	202	11681	0.351	ng		99
30) Pyrene	19.175	202	11847	0.411	ng		100
32) Benzo(a)anthracene	20.947	228	9669	0.354	ng		99
33) Chrysene	21.001	228	11263	0.400	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4196	0.389	ng		99
36) Indeno(1,2,3-cd)pyrene	25.096	276	11338	0.364	ng		97
37) Benzo(b)fluoranthene	22.445	252	13396	0.459	ng		97
38) Benzo(k)fluoranthene	22.486	252	11357	0.395	ng		99
39) Benzo(a)pyrene	22.968	252	8586	0.357	ng		97
40) Dibenzo(a,h)anthracene	25.114	278	8605	0.350	ng		96
41) Benzo(g,h,i)perylene	25.708	276	9565	0.372	ng		99

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

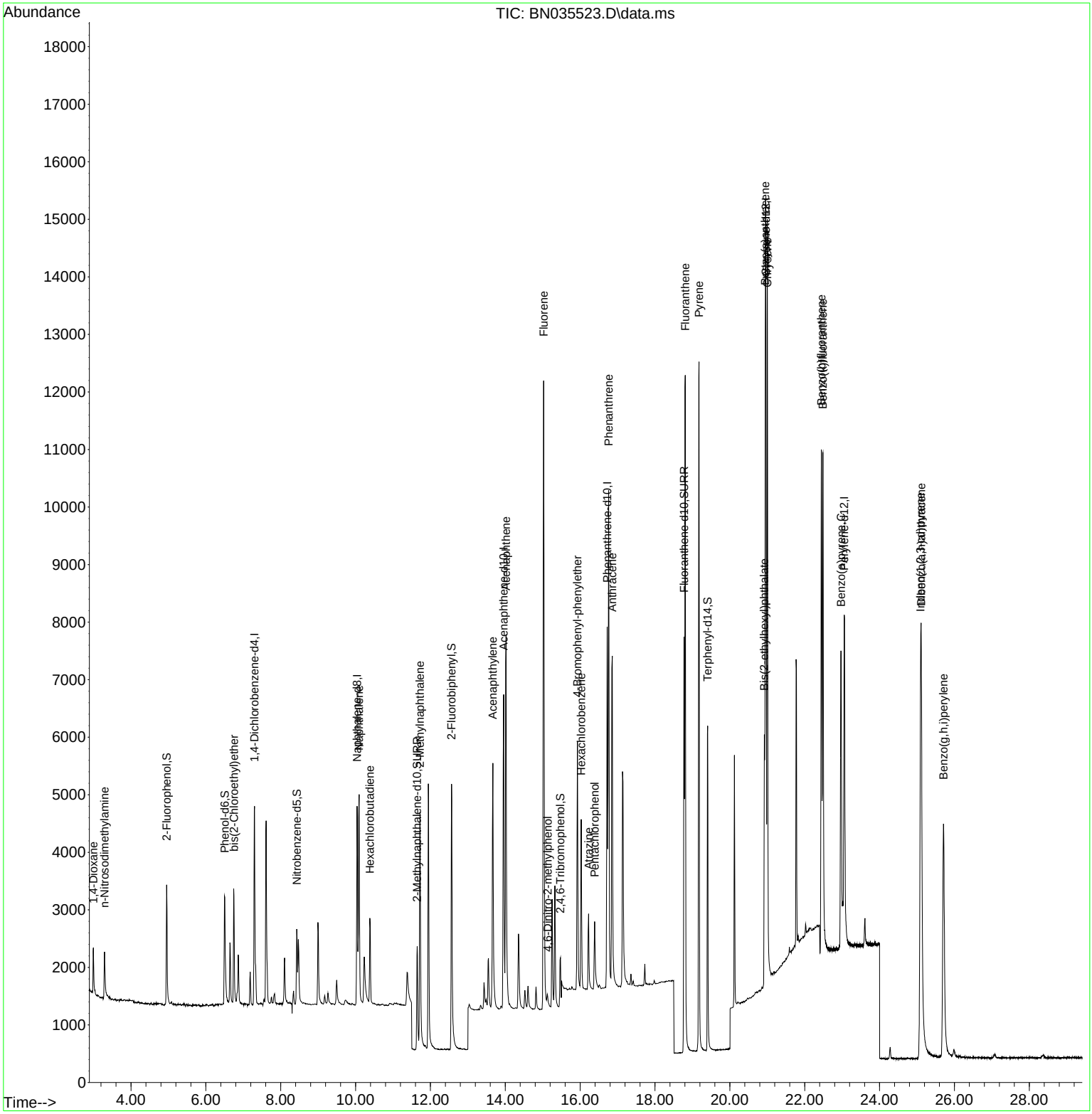
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

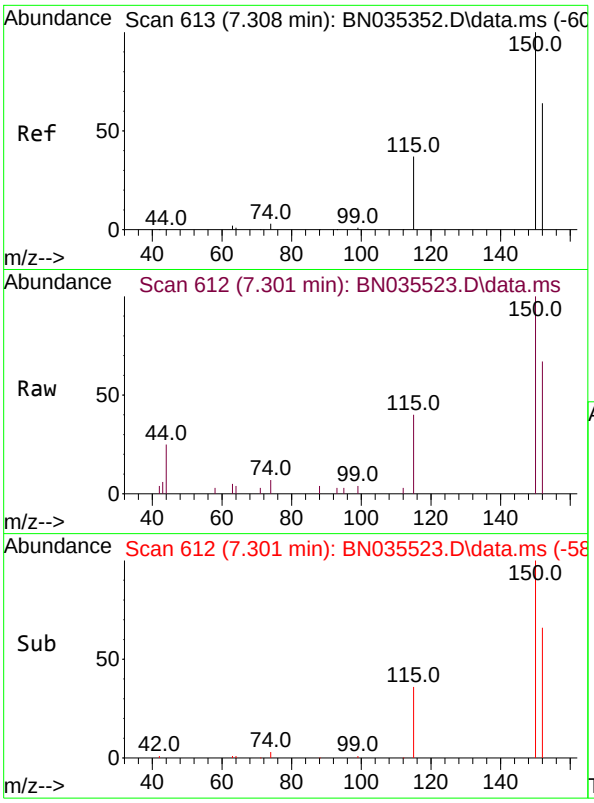
Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

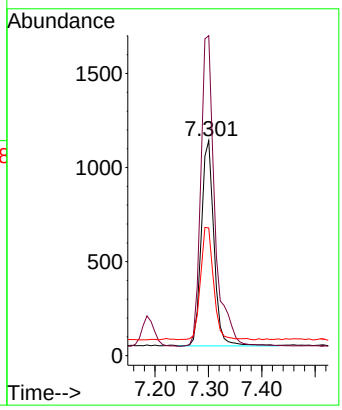




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:152 Resp: 180

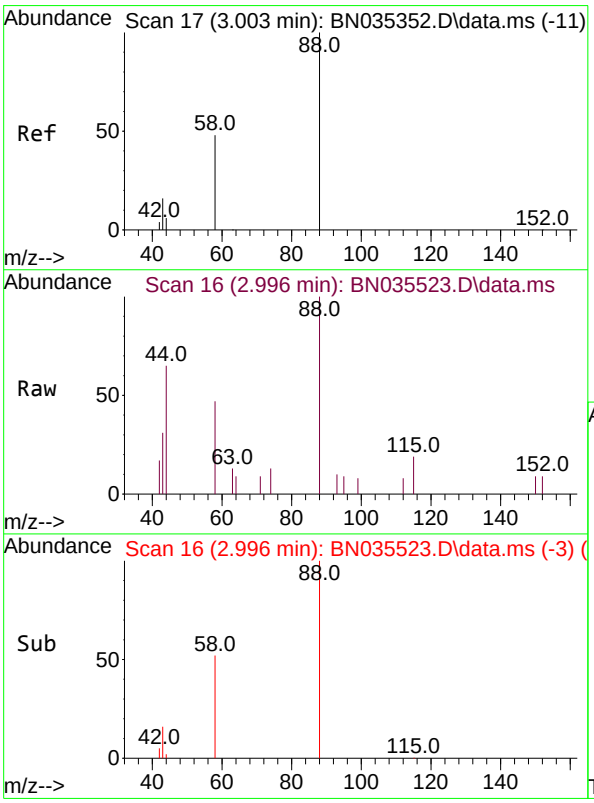
Ion	Ratio	Lower	Upper
152	100		
150	148.8	124.0	186.0
115	59.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

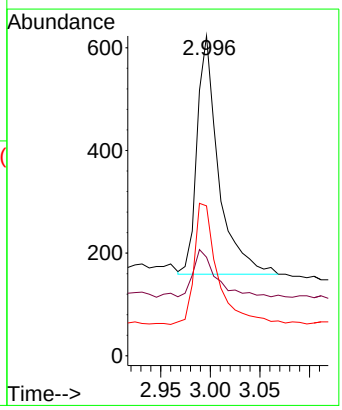
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

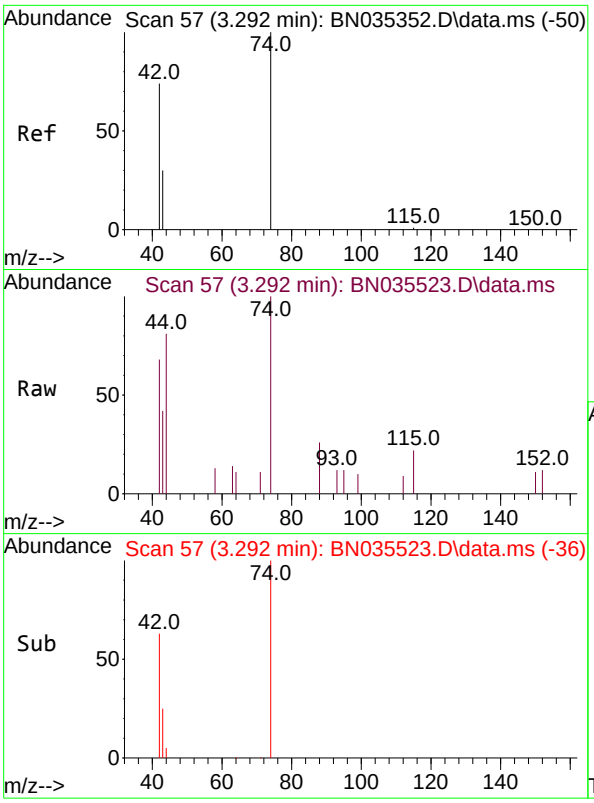


#2
1,4-Dioxane
Concen: 0.404 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 88 Resp: 698

Ion	Ratio	Lower	Upper
88	100		
43	22.5	17.2	25.8
58	54.0	44.5	66.7

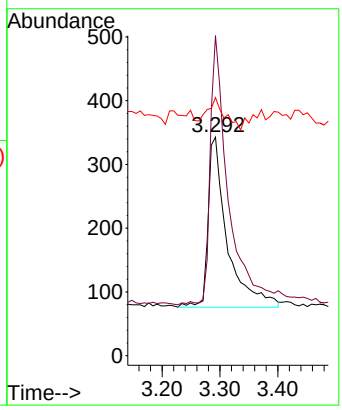




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 42 Resp: 61

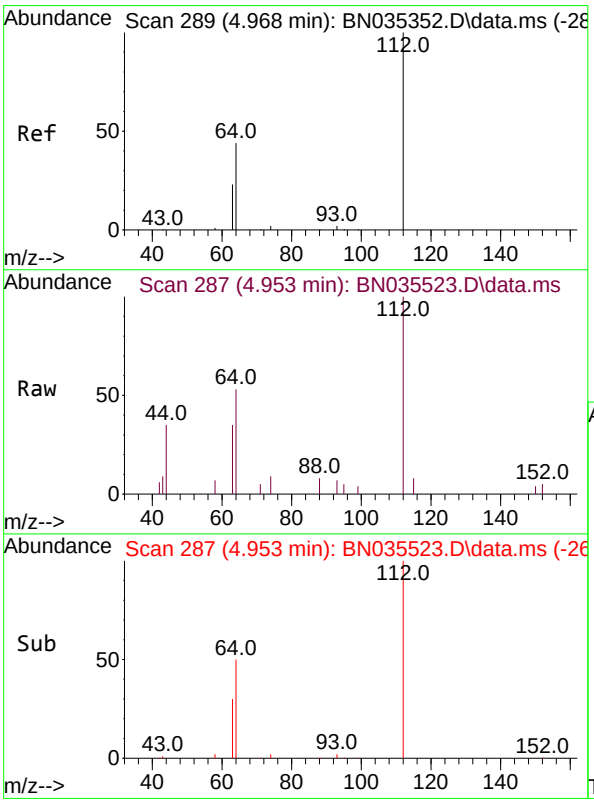
Ion	Ratio	Lower	Upper
42	100		
74	150.1	124.9	187.3
44	17.0	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

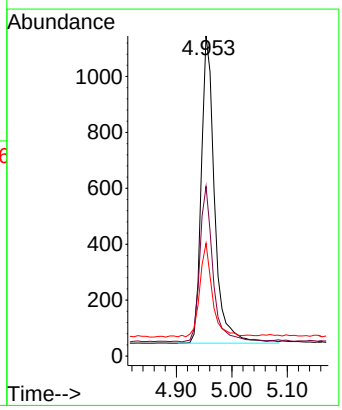
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

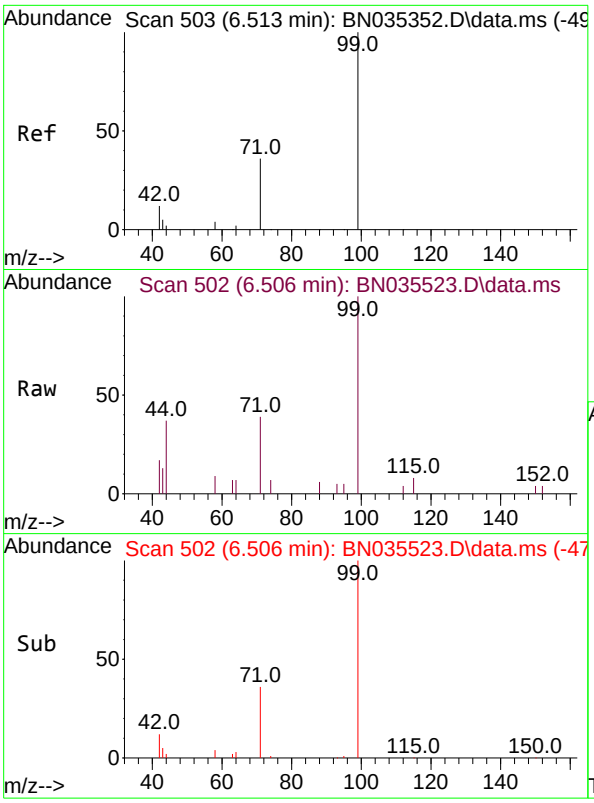


#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:112 Resp: 1833

Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.8	59.8
63	28.5	21.0	31.6

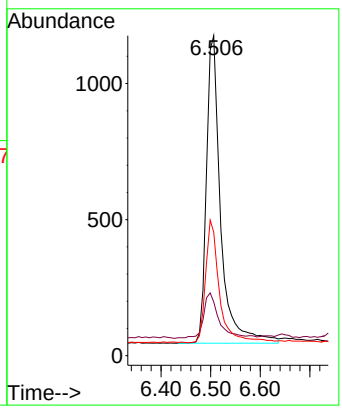




#5
Phenol-d6
Concen: 0.414 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 99 Resp: 225(

Ion	Ratio	Lower	Upper
99	100		
42	16.2	11.4	17.2
71	39.1	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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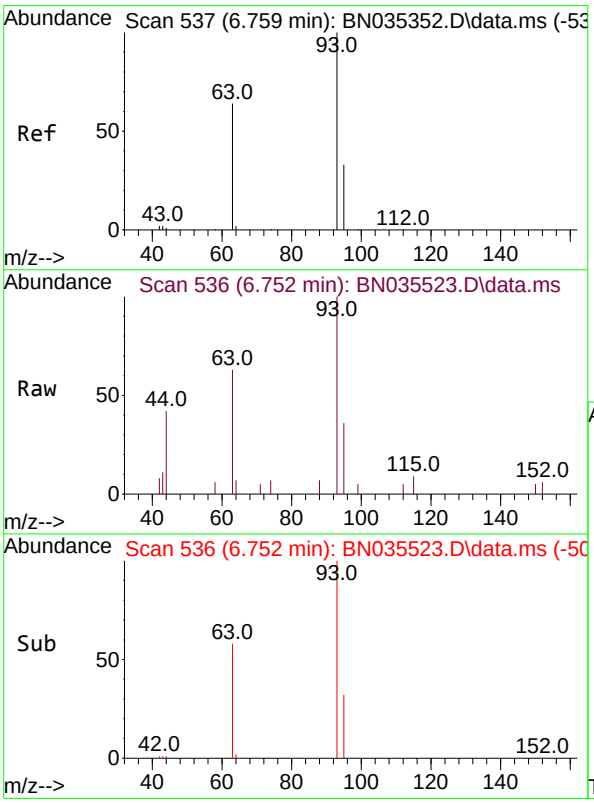
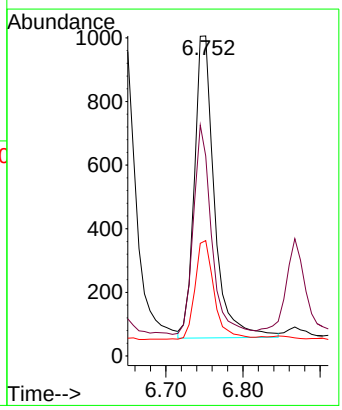
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

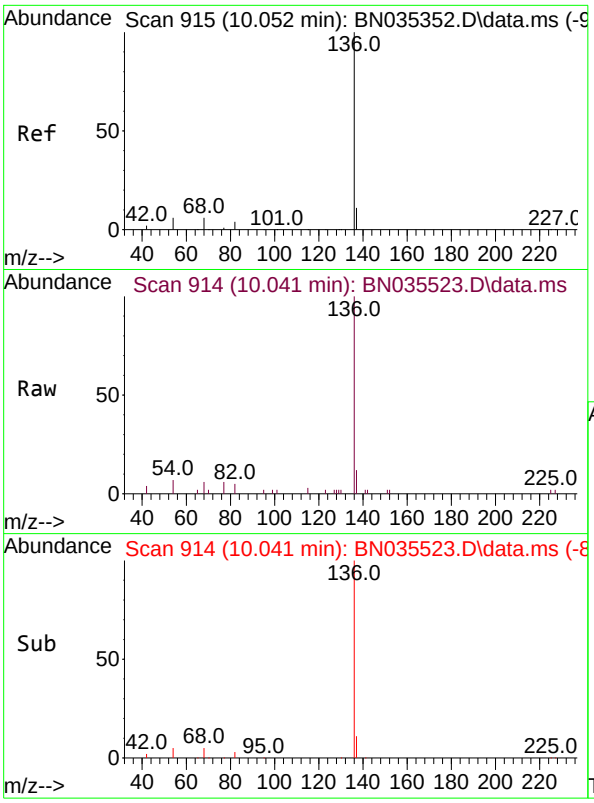


#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 93 Resp: 1719

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	31.6	25.7	38.5

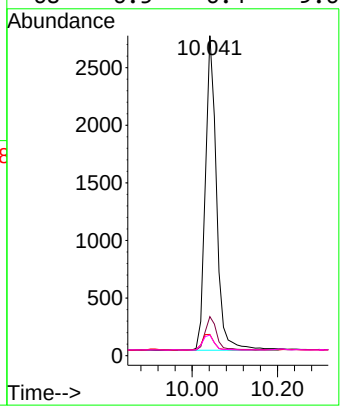




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:136 Resp: 494

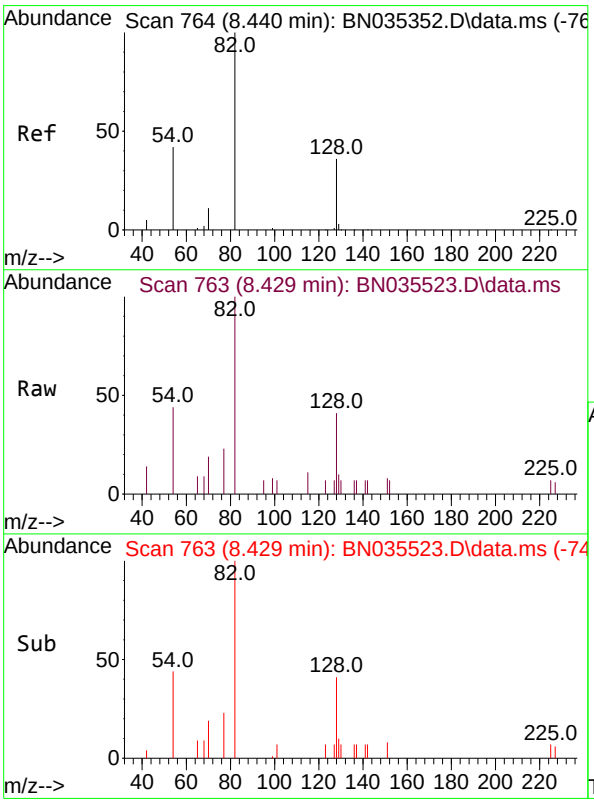
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.7	6.1	9.1
68	6.5	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

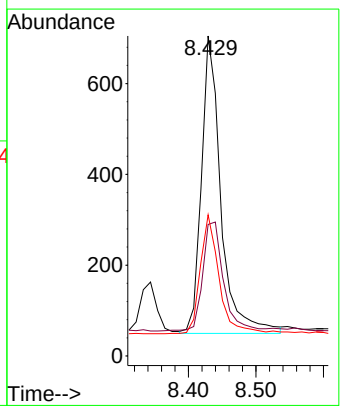
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

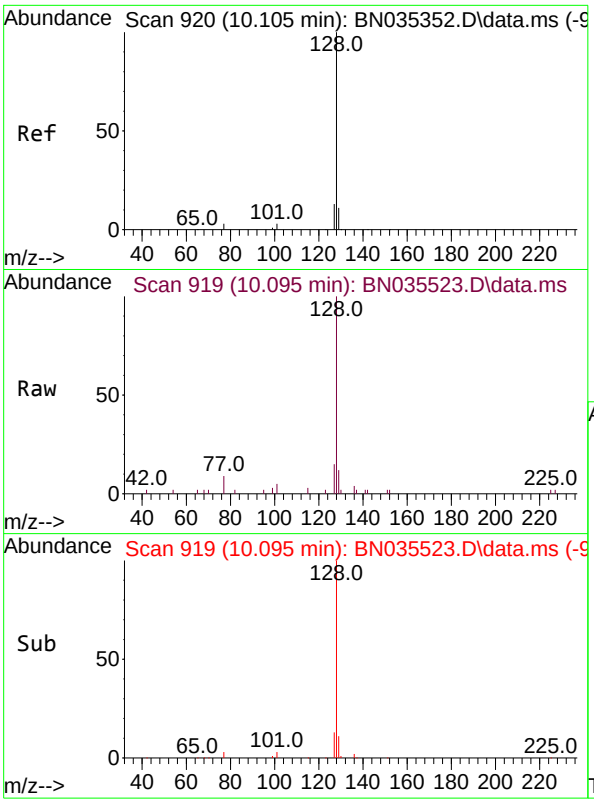


#8
Nitrobenzene-d5
Concen: 0.434 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 82 Resp: 1313

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.4	50.0
54	44.1	36.7	55.1

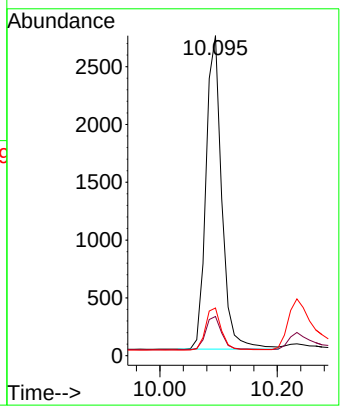




#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:128 Resp: 507

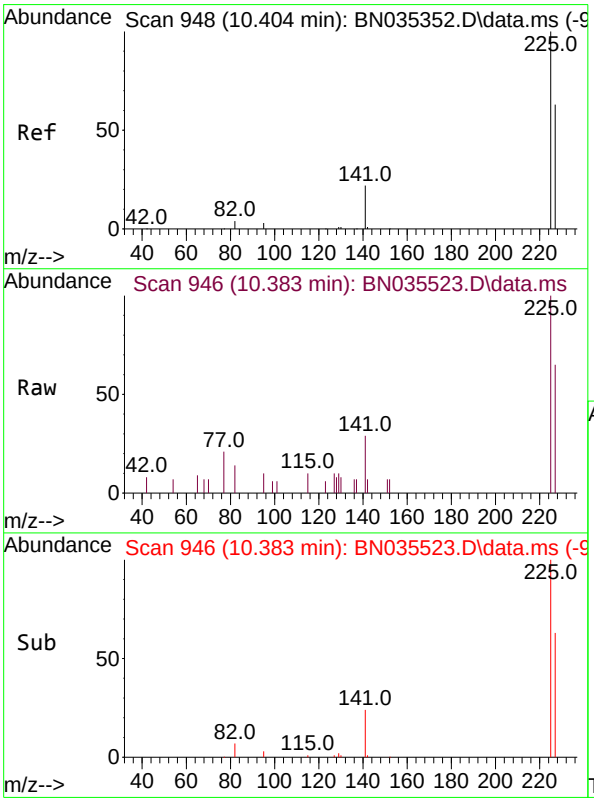
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

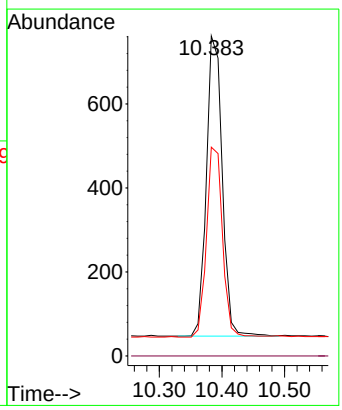
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

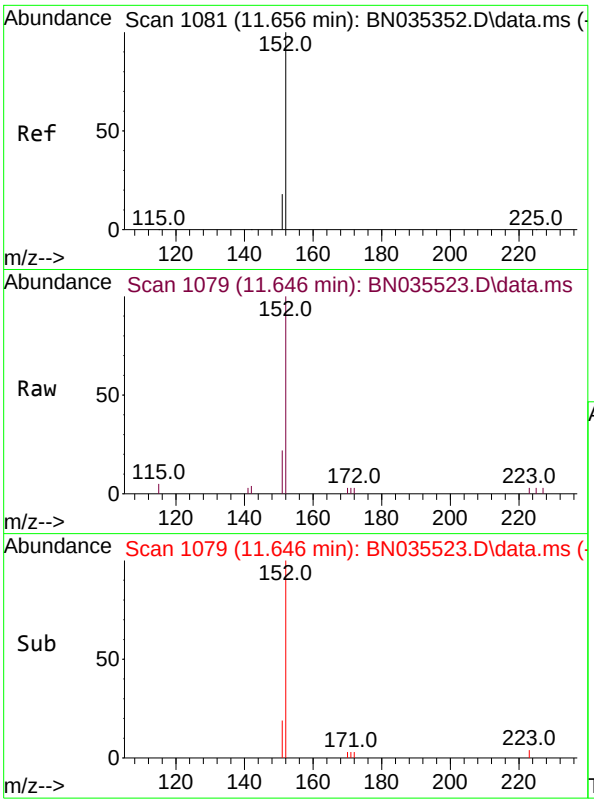


#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:225 Resp: 1254

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9

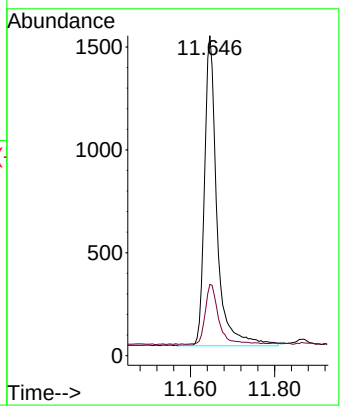




#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:152 Resp: 309

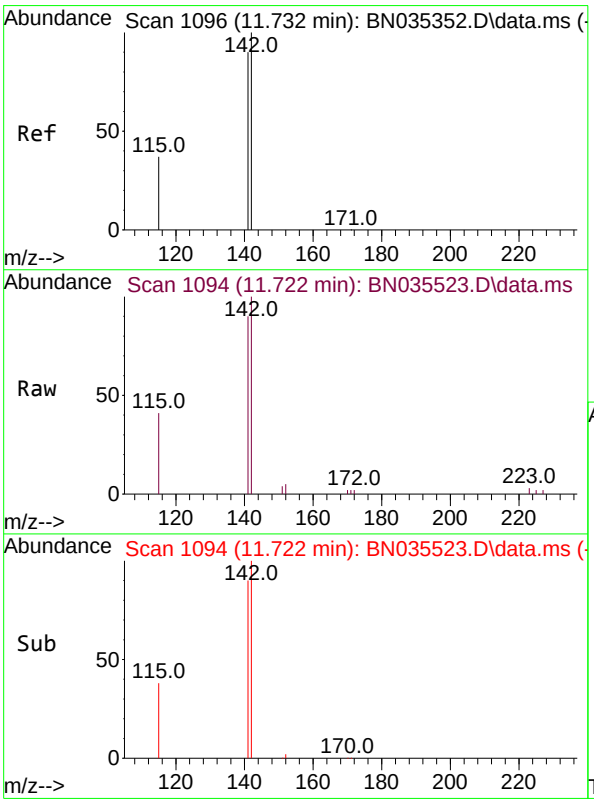
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

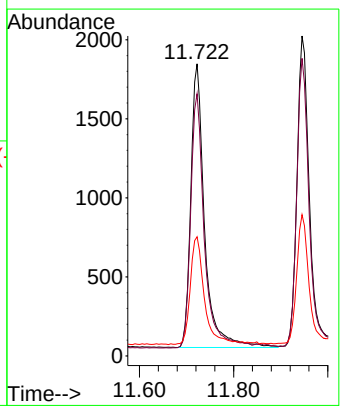
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

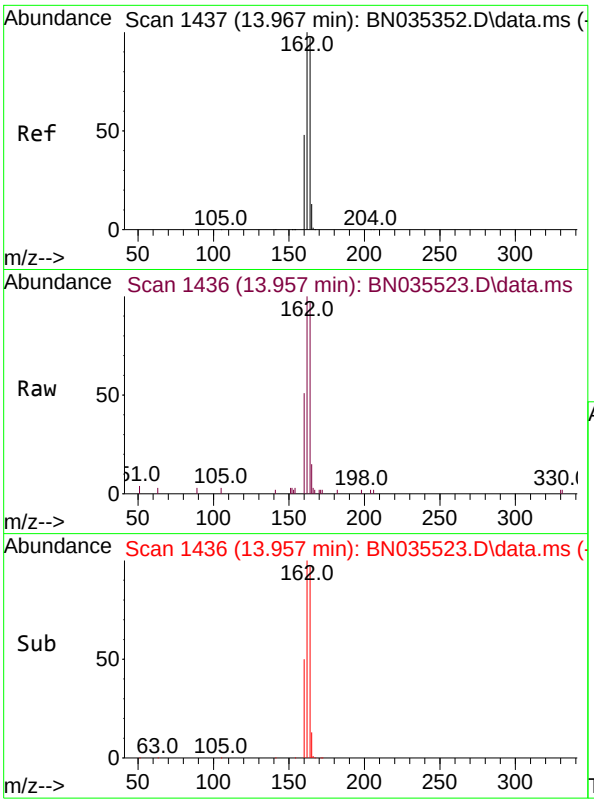


#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:142 Resp: 3664

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.8	31.4	47.0

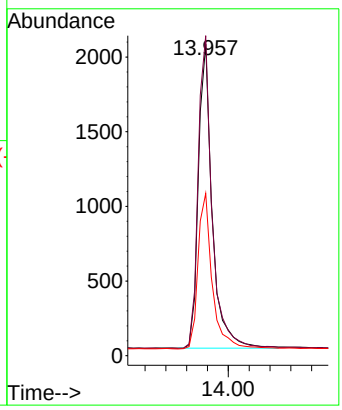




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:164 Resp: 376

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	52.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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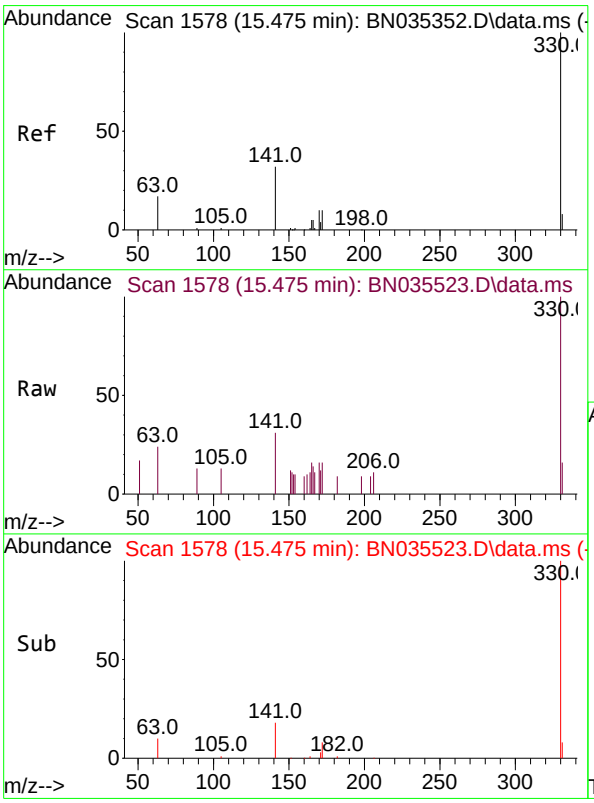
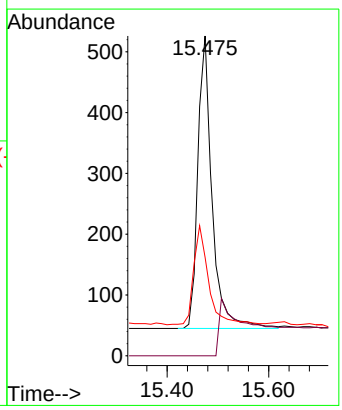
Supervised By :mohammad ahmed 12/11/2024

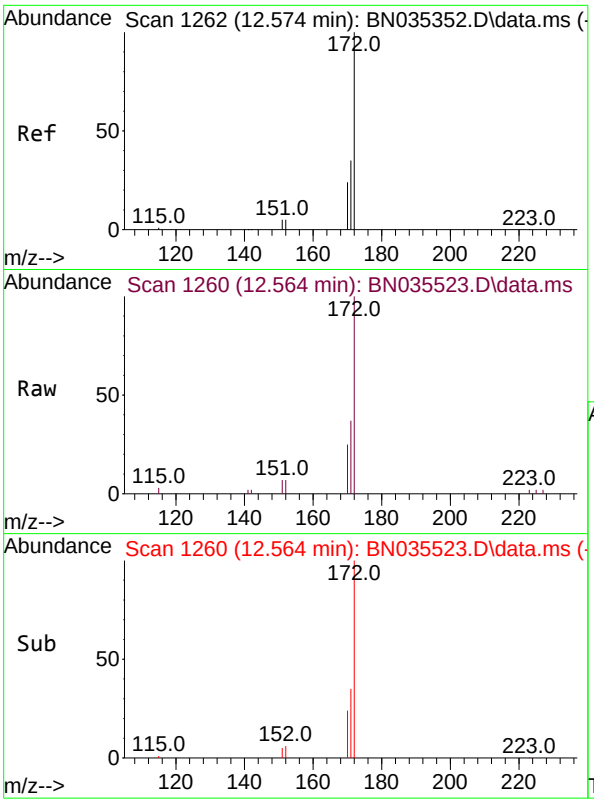


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:330 Resp: 1002

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.8	26.6	40.0

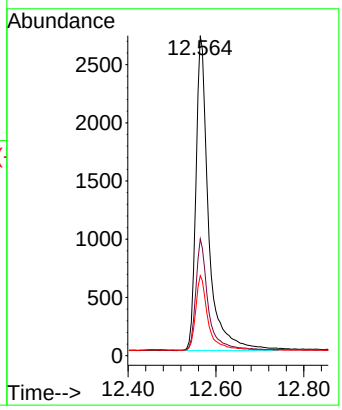




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:172 Resp: 544

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	25.0	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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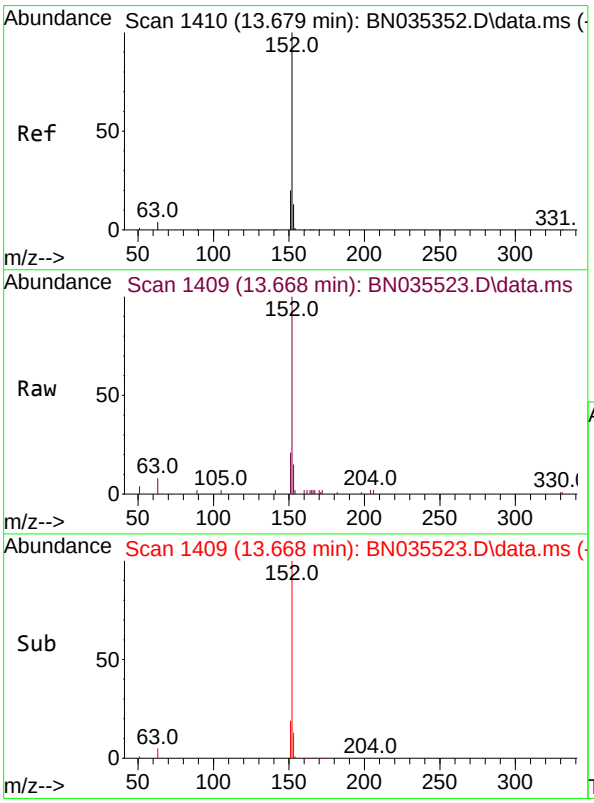
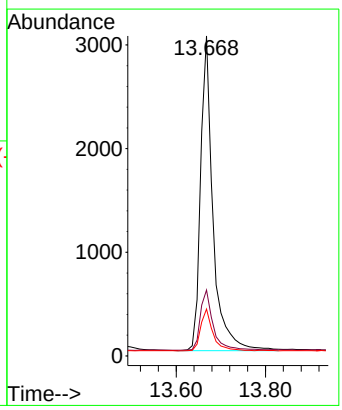
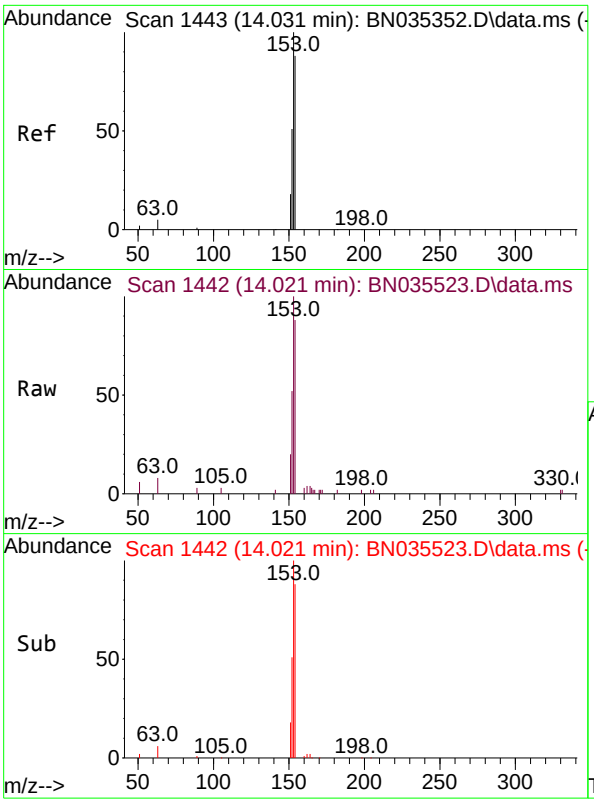


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:152 Resp: 5848

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.1	10.4	15.6

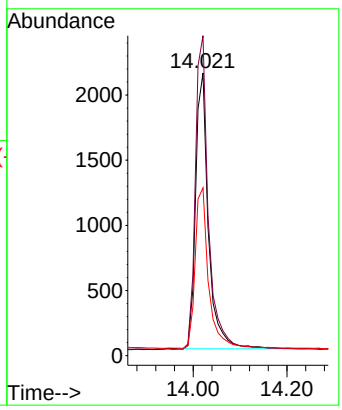




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:154 Resp: 403

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	61.0	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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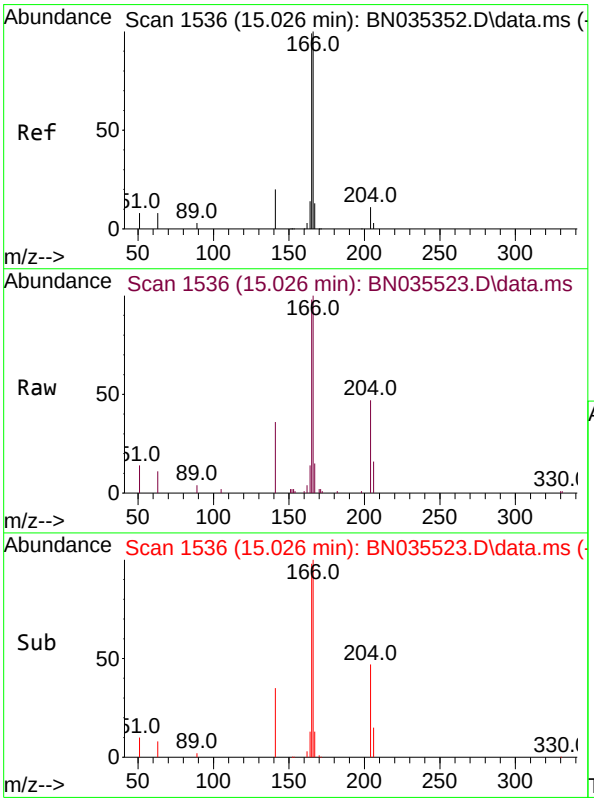
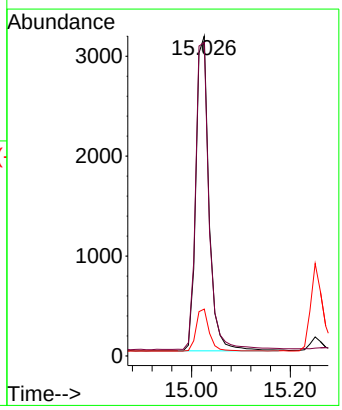
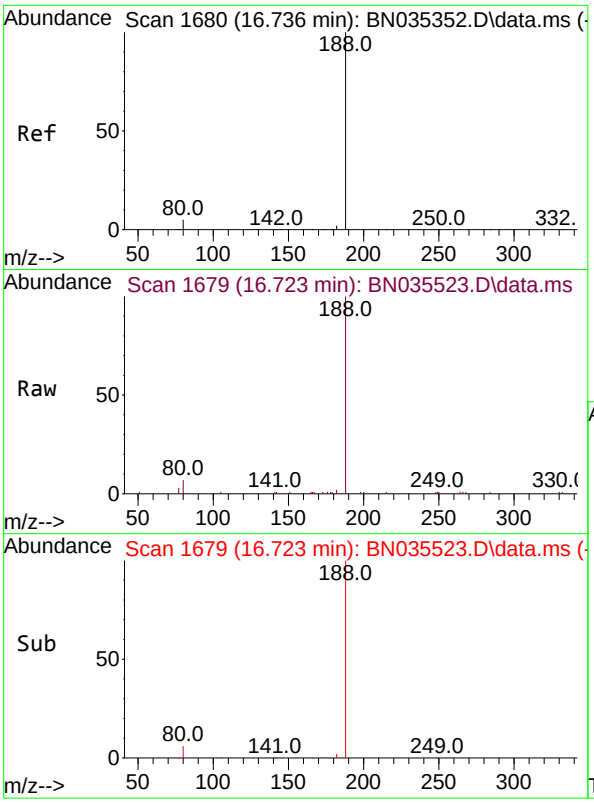


#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:166 Resp: 5811

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.7	119.5
167	13.3	10.8	16.2

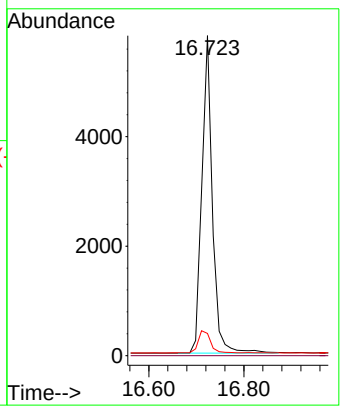




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:188 Resp: 898(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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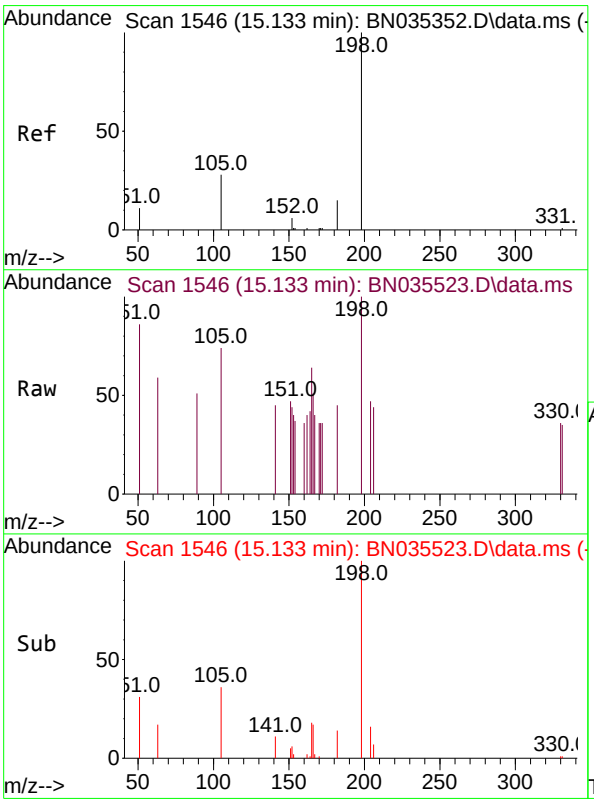
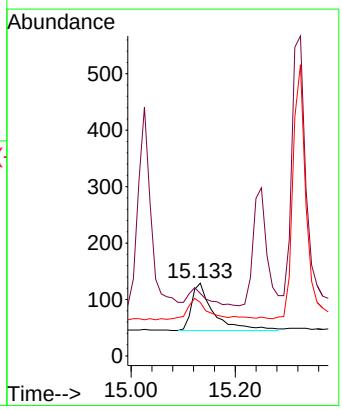
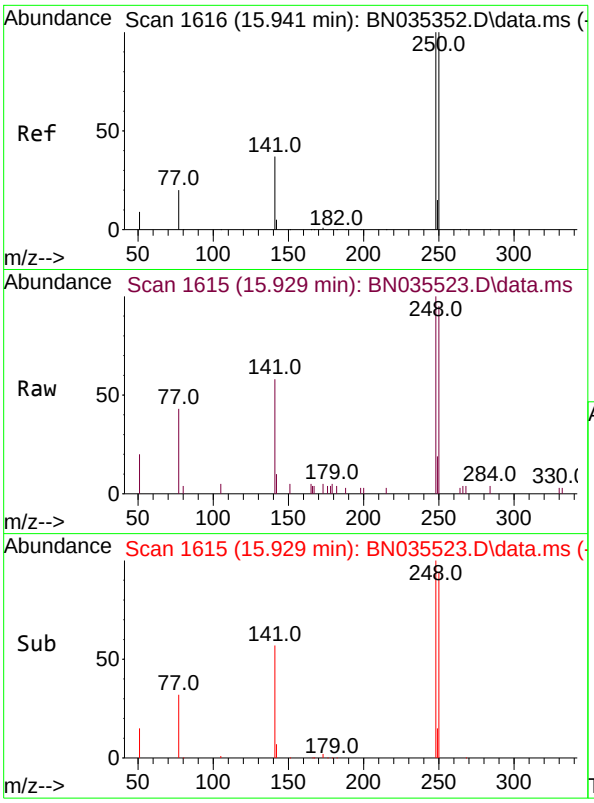


#20
4,6-Dinitro-2-methylphenol
Concen: 0.281 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:198 Resp: 248

Ion	Ratio	Lower	Upper
198	100		
51	86.0	46.5	69.7#
105	73.6	45.3	67.9#

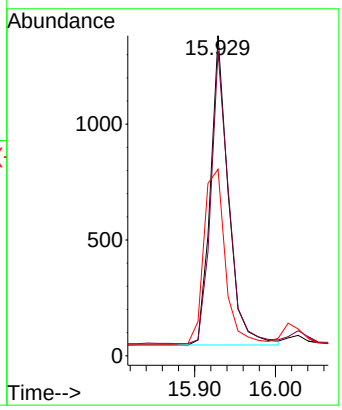




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.929 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:248 Resp: 205

Ion	Ratio	Lower	Upper
248	100		
250	95.2	80.6	120.8
141	58.2	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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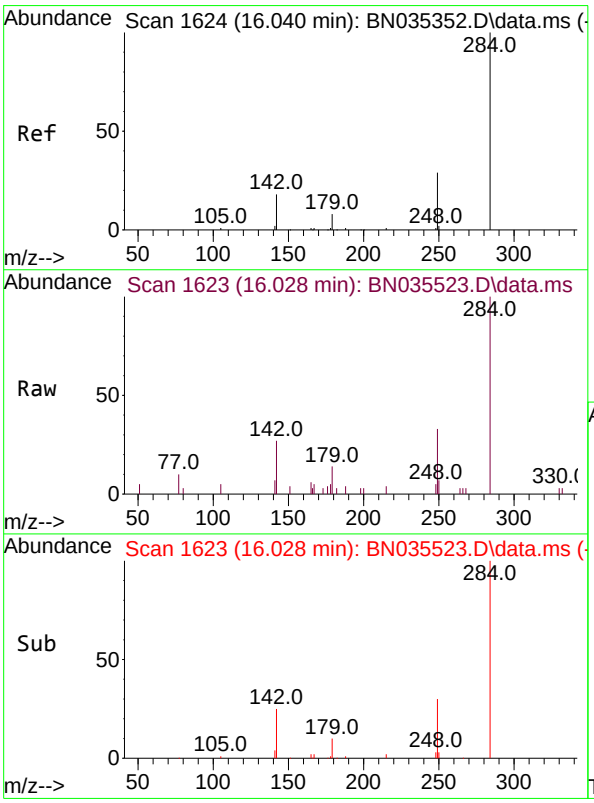
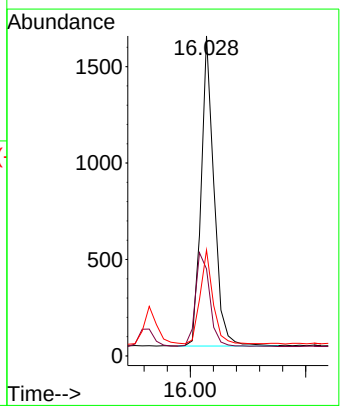
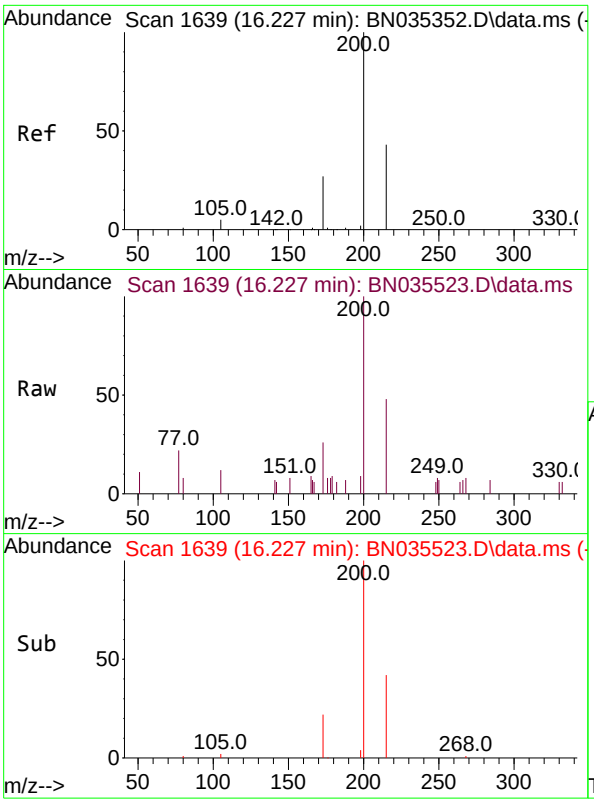


#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:284 Resp: 2505

Ion	Ratio	Lower	Upper
284	100		
142	33.7	26.7	40.1
249	29.9	24.6	36.8

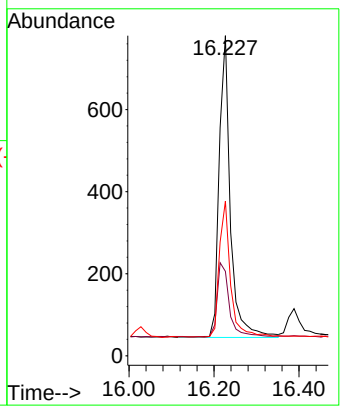




#23
Atrazine
Concen: 0.358 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:200 Resp: 133

Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	48.3	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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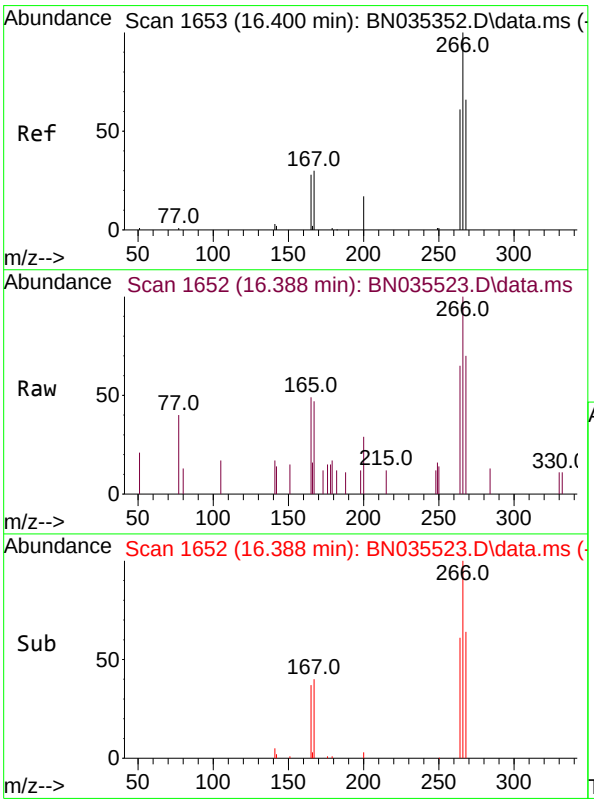
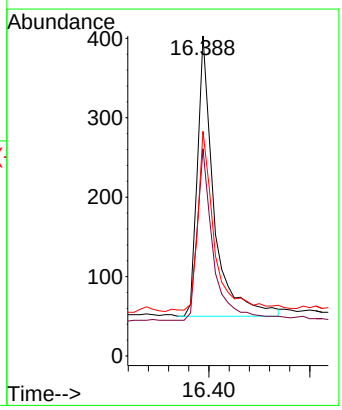
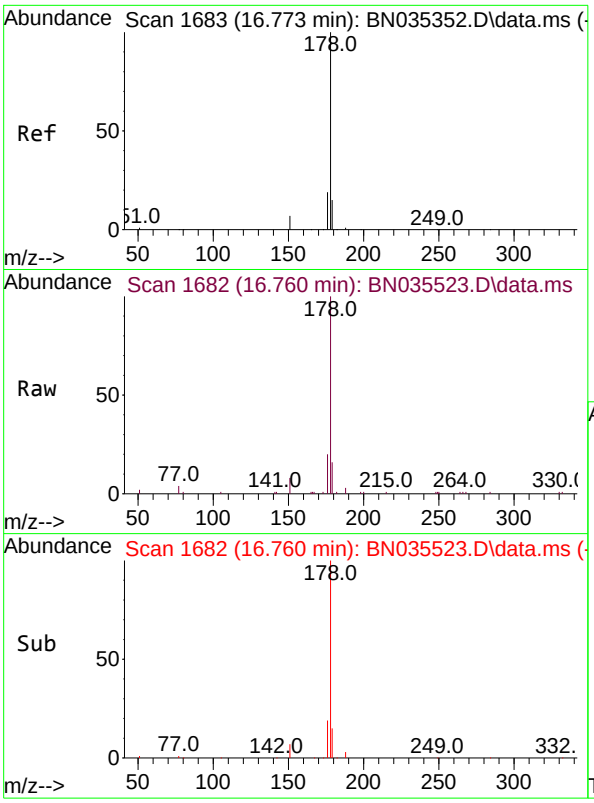


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:266 Resp: 807

Ion	Ratio	Lower	Upper
266	100		
264	58.9	42.3	63.5
268	64.6	43.3	64.9

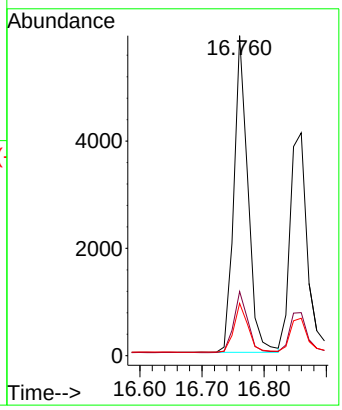




#25
Phenanthrene
Concen: 0.374 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:178 Resp: 923

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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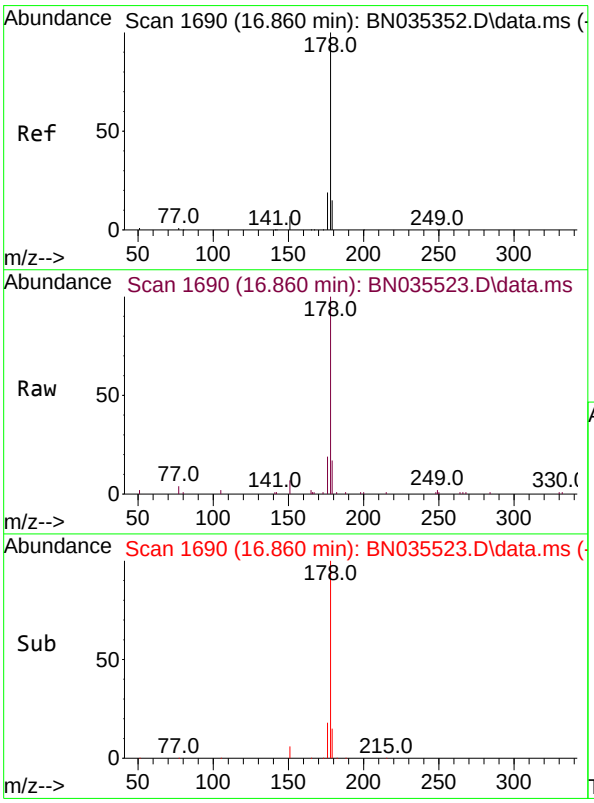
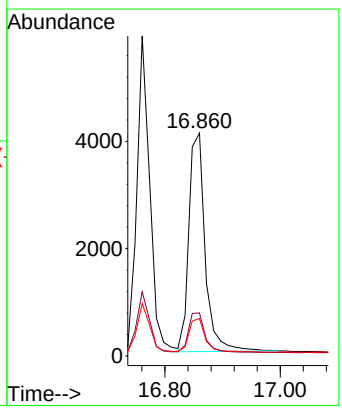
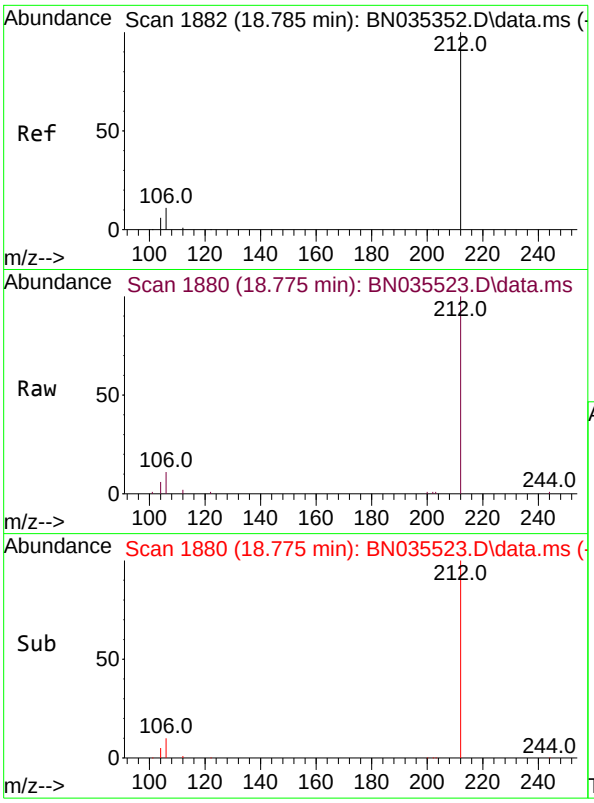


#26
Anthracene
Concen: 0.359 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:178 Resp: 8006

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.7	12.6	18.8

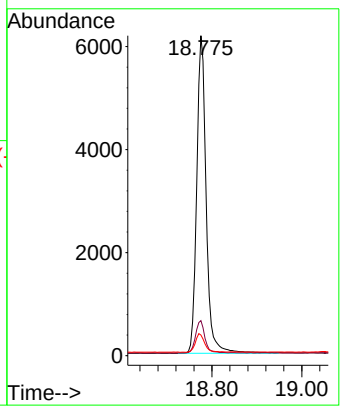




#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:212 Resp: 903

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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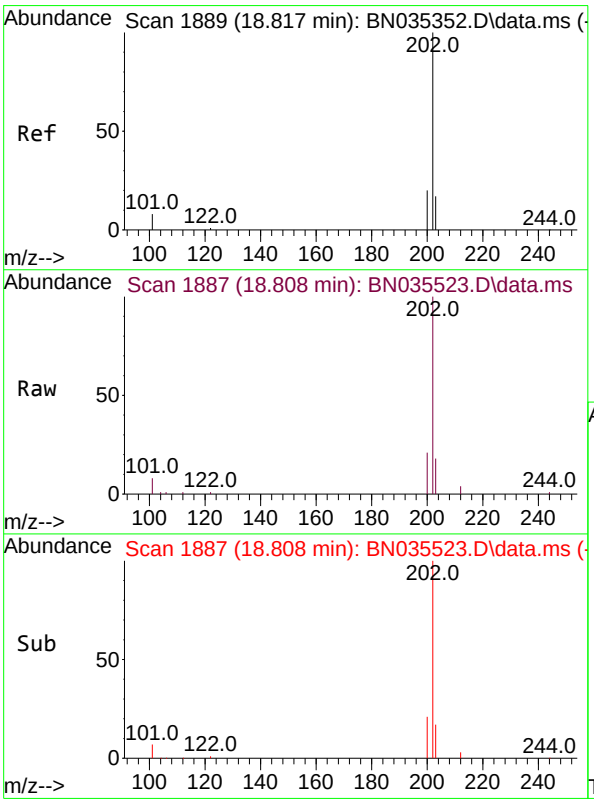
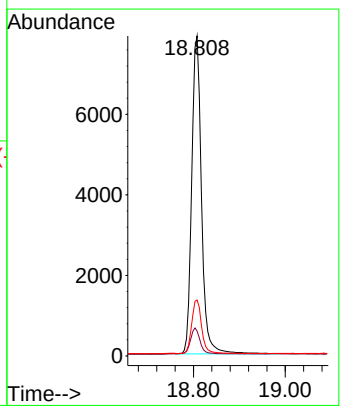
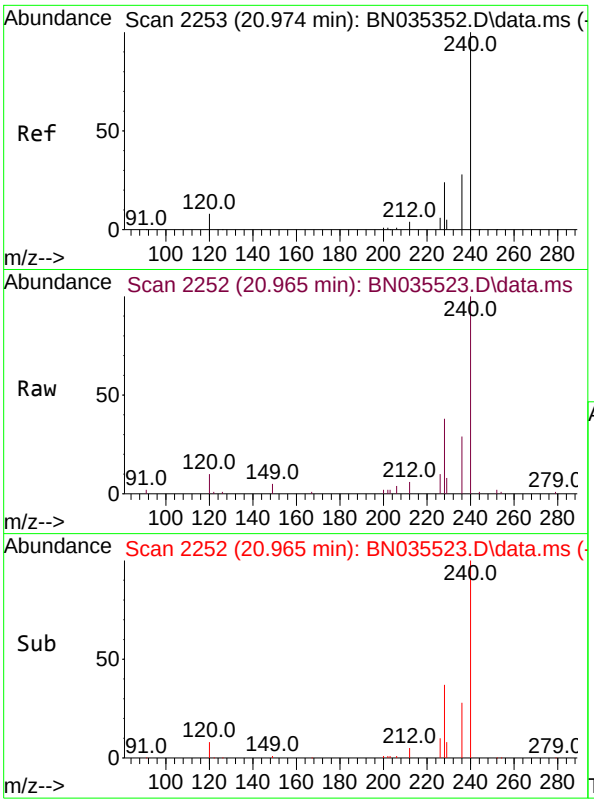


#28
Fluoranthene
Concen: 0.351 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11681

Ion	Ratio	Lower	Upper
202	100		
101	8.1	7.4	11.0
203	17.1	13.7	20.5

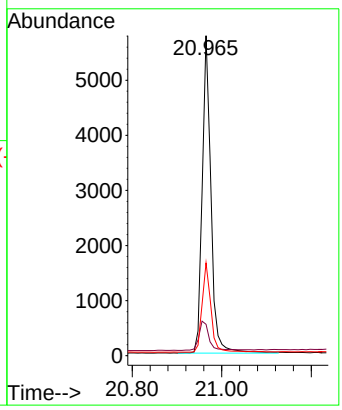




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:240 Resp: 781

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.9	11.9
236	29.0	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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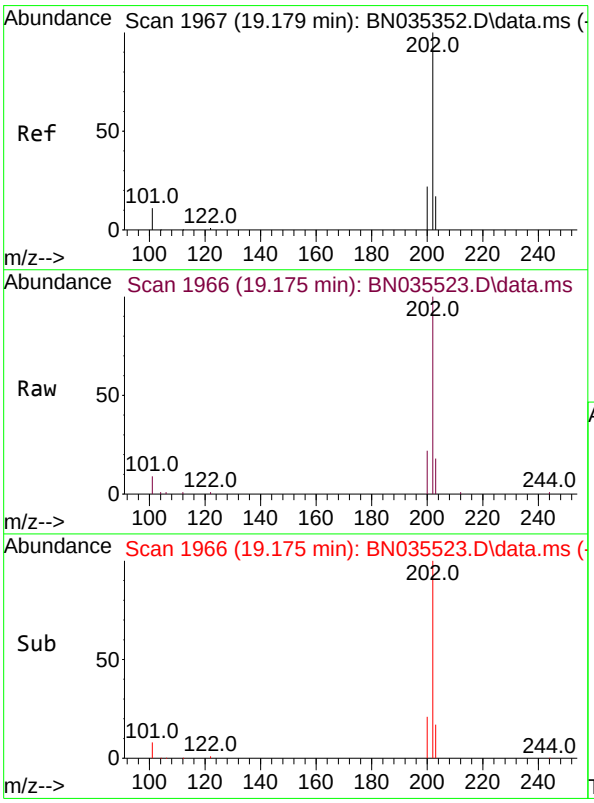
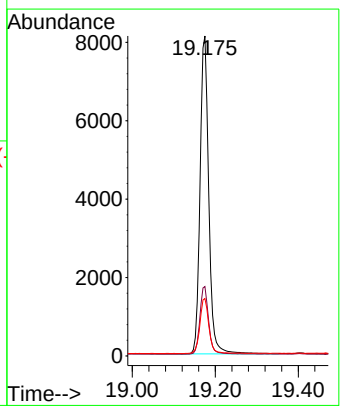
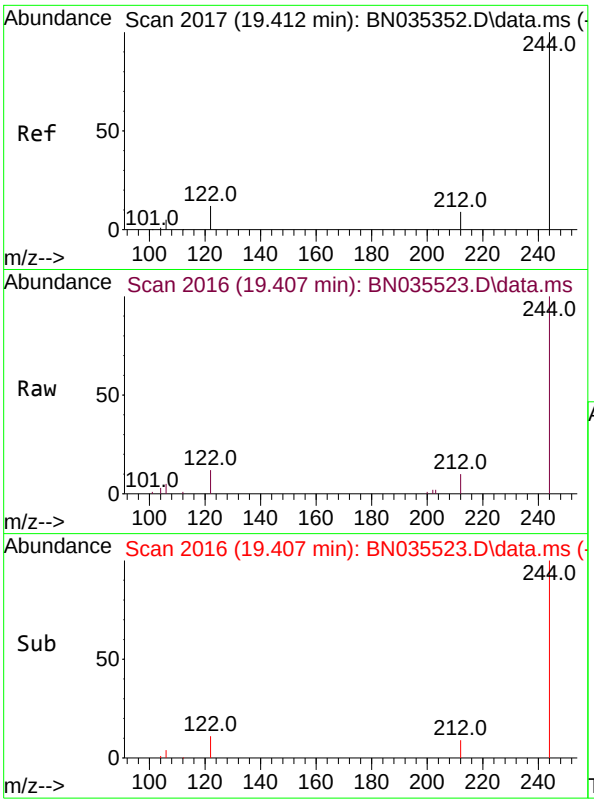


#30
Pyrene
Concen: 0.411 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11847

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.9	14.3	21.5

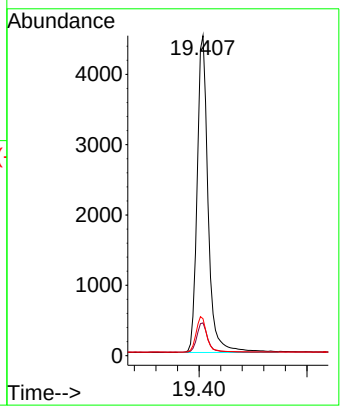




#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:244 Resp: 634

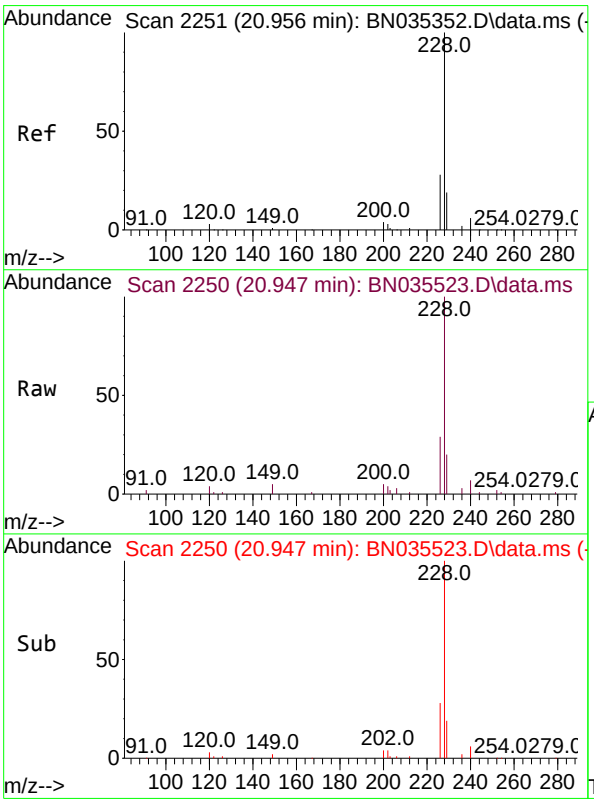
Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

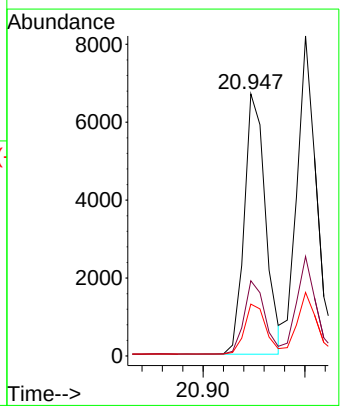
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

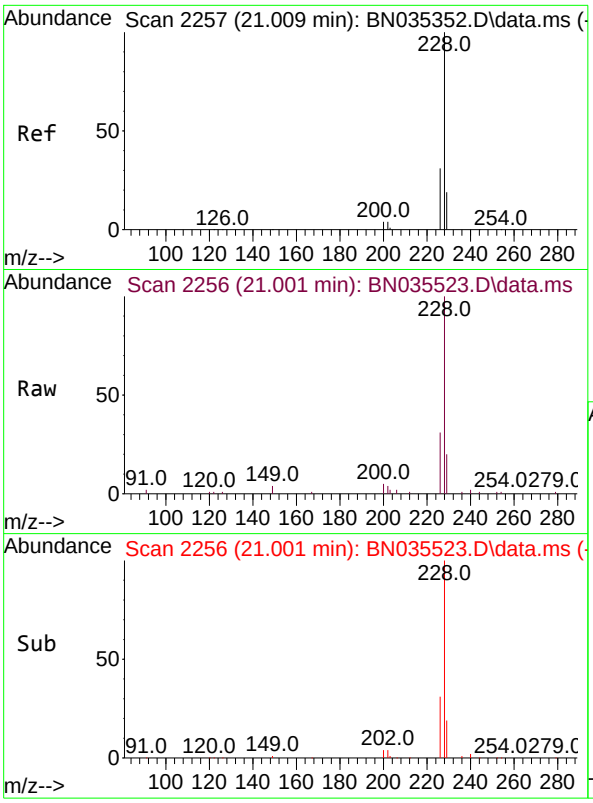


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:228 Resp: 9669

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	19.8	15.8	23.8

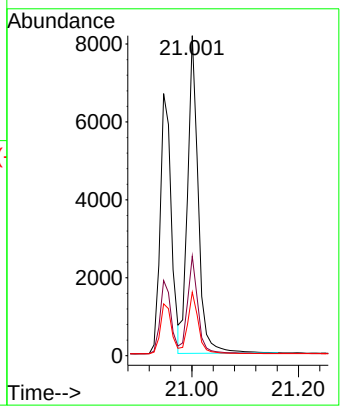




#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:228 Resp: 1126

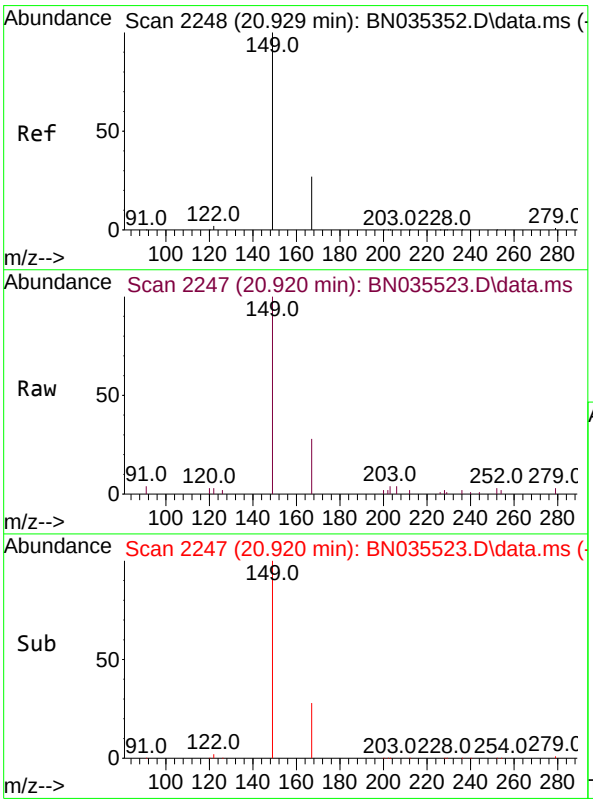
Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

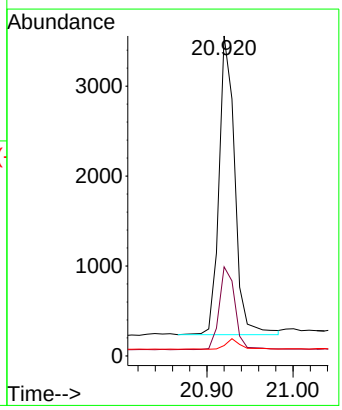
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

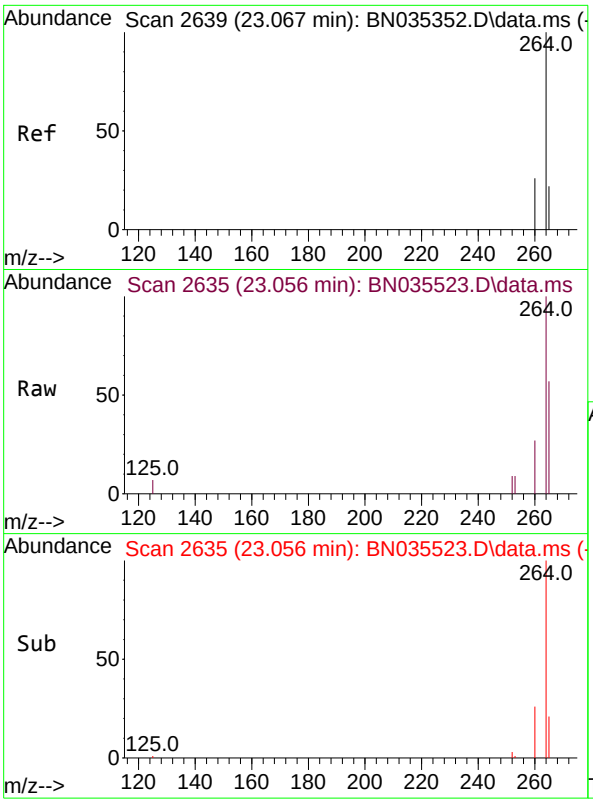


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.389 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:149 Resp: 4196

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.056 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

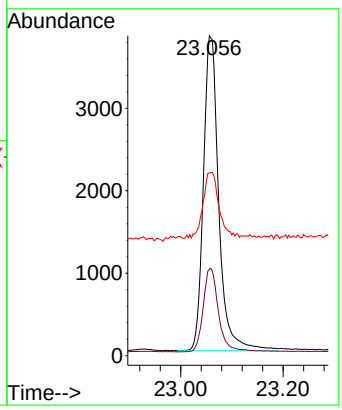
Tgt Ion:264 Resp: 797

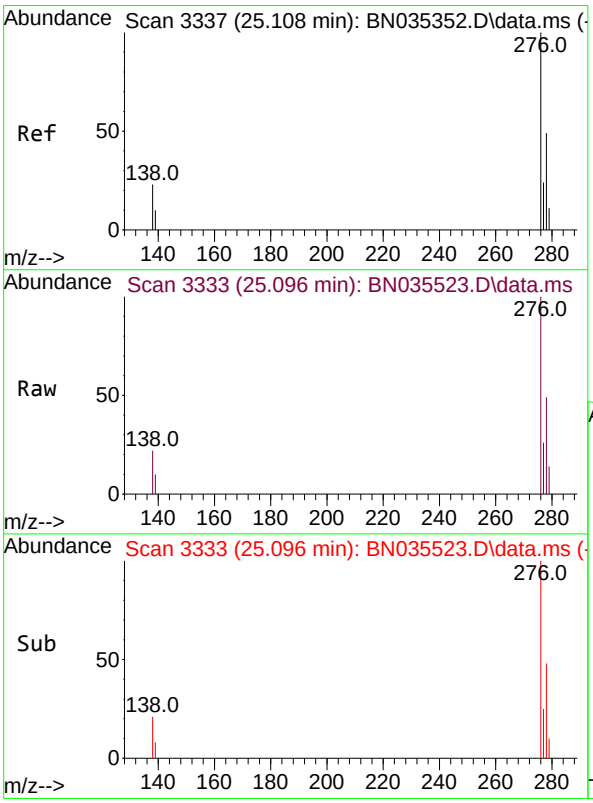
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	57.1	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

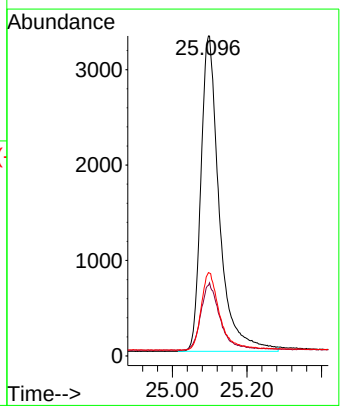


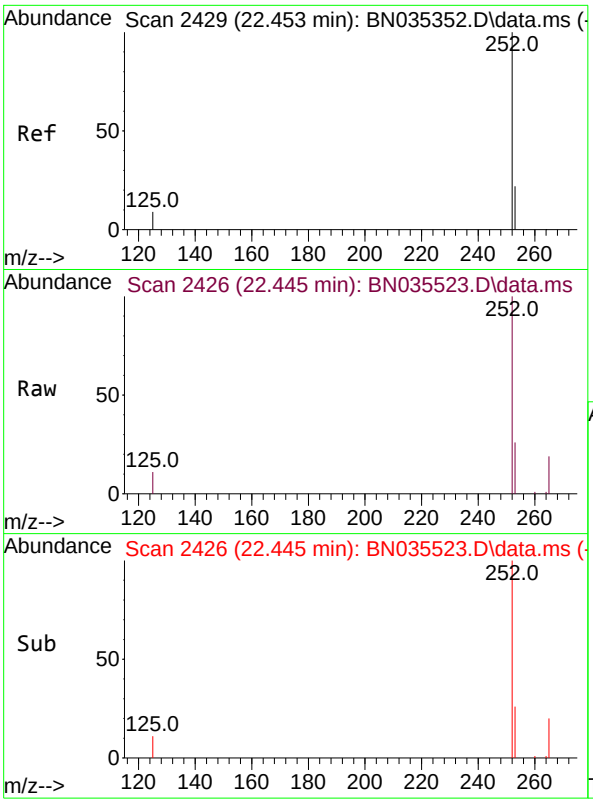


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:276 Resp: 11338

Ion	Ratio	Lower	Upper
276	100		
138	21.5	19.4	29.0
277	25.0	19.8	29.6

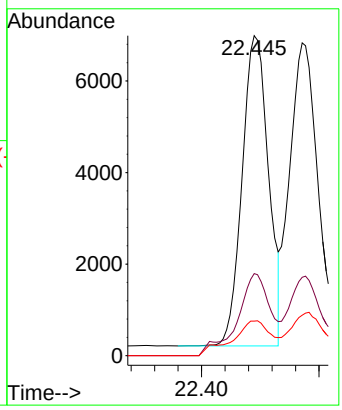




#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.445 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:252 Resp: 1339

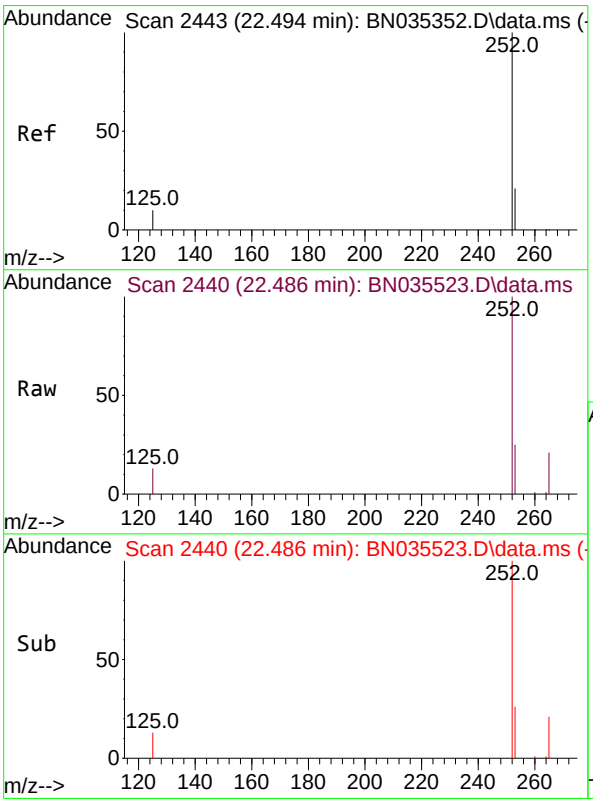
Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.6	29.4
125	10.8	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

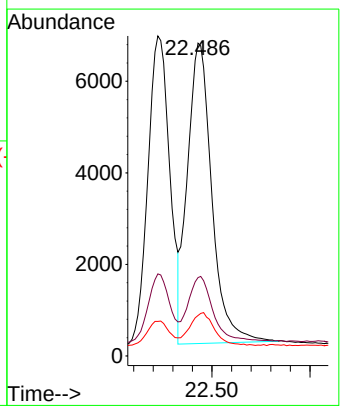
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

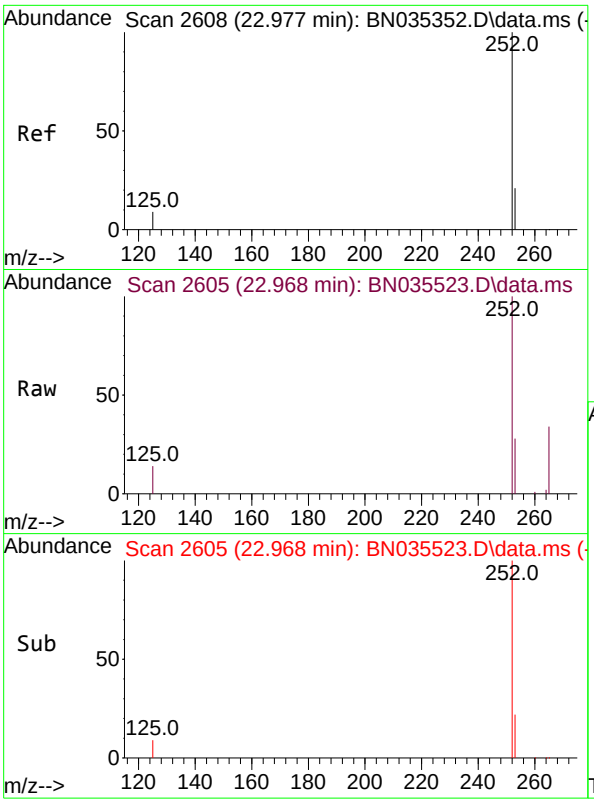


#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.486 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:252 Resp: 11357

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.5	29.3
125	12.9	10.2	15.4

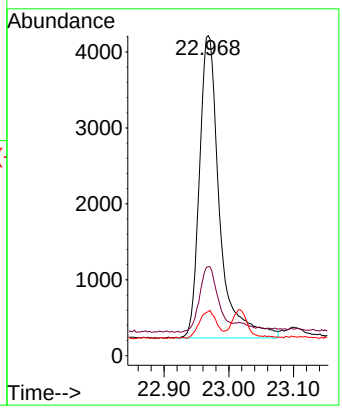




#39
Benzo(a)pyrene
Concen: 0.357 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:252 Resp: 858

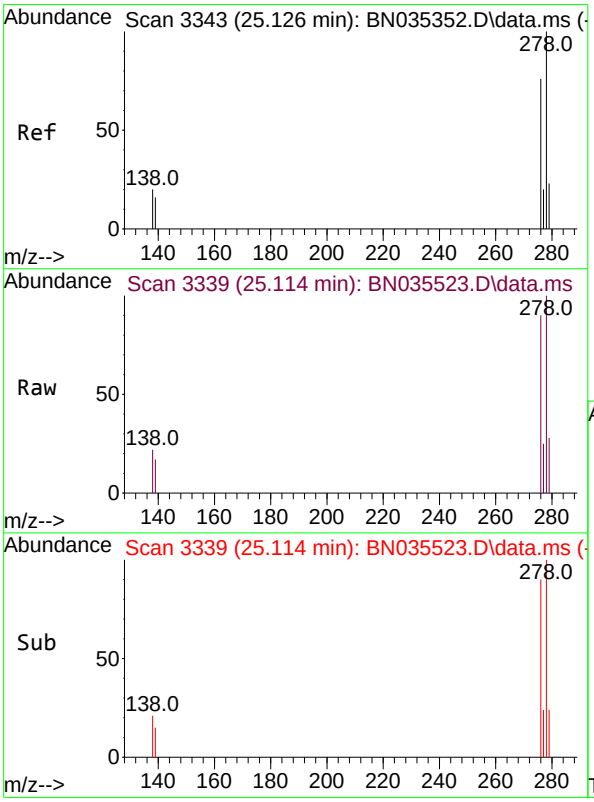
Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	13.7	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

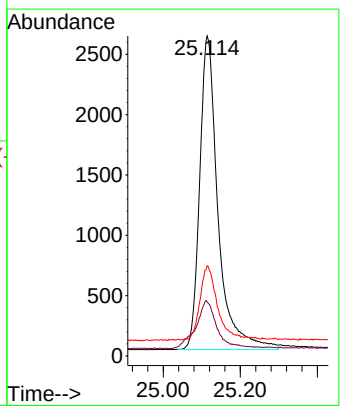
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

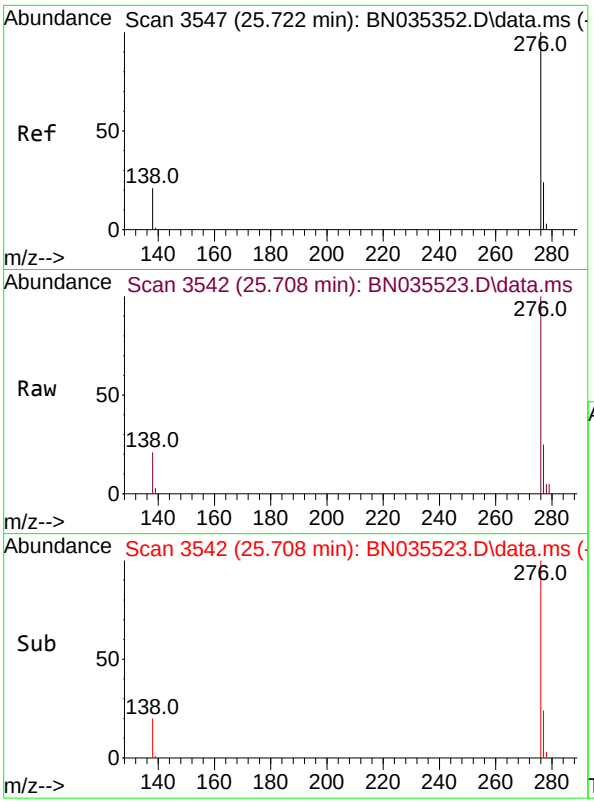


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.114 min Scan# 3339
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:278 Resp: 8605

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.2	21.4
279	28.2	20.5	30.7

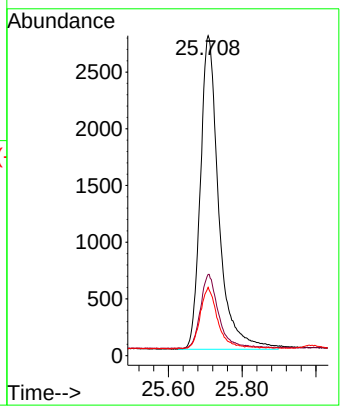




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.708 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:276 Resp: 956

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	21.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035523.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2		1,4-Dioxane	0.382	0.386	-1.0	91	0.00
3		n-Nitrosodimethylamine	0.319	0.341	-6.9	92	0.00
4	S	2-Fluorophenol	1.001	1.013	-1.2	88	-0.01
5	S	Phenol-d6	1.204	1.247	-3.6	92	0.00
6		bis(2-Chloroethyl)ether	1.012	0.950	6.1	85	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	95	-0.01
8	S	Nitrobenzene-d5	0.244	0.265	-8.6	107	-0.01
9		Naphthalene	1.055	1.025	2.8	93	-0.01
10		Hexachlorobutadiene	0.243	0.253	-4.1	97	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.625	0.2	96	-0.01
12		2-Methylnaphthalene	0.755	0.741	1.9	95	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	99	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.266	6.3	103	0.00
15	S	2-Fluorobiphenyl	1.512	1.447	4.3	95	-0.01
16		Acenaphthylene	1.680	1.554	7.5	97	-0.01
17		Acenaphthene	1.115	1.071	3.9	98	-0.01
18		Fluorene	1.596	1.545	3.2	99	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.028	28.2#	74	0.00
21		4-Bromophenyl-phenylether	0.234	0.229	2.1	96	-0.01
22		Hexachlorobenzene	0.275	0.279	-1.5	97	-0.01
23		Atrazine	0.167	0.149	10.8	92	0.00
24		Pentachlorophenol	0.120	0.090	25.0	89	-0.01
25		Phenanthrene	1.099	1.028	6.5	91	-0.01
26		Anthracene	0.994	0.891	10.4	90	0.00
27	SURR	Fluoranthene-d10	1.134	1.005	11.4	88	0.00
28		Fluoranthene	1.481	1.300	12.2	87	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30		Pyrene	1.477	1.516	-2.6	84	0.00
31	S	Terphenyl-d14	0.789	0.812	-2.9	84	0.00
32		Benzo(a)anthracene	1.399	1.238	11.5	75	0.00
33		Chrysene	1.443	1.442	0.1	82	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.537	2.9	85	0.00
35	I	Perylene-d12	1.000	1.000	0.0	74	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.422	9.1	68	-0.01
37		Benzo(b)fluoranthene	1.463	1.680	-14.8	94	0.00
38		Benzo(k)fluoranthene	1.440	1.424	1.1	75	0.00
39	C	Benzo(a)pyrene	1.205	1.076	10.7	69	0.00
40		Dibenzo(a,h)anthracene	1.234	1.079	12.6	66	-0.01
41		Benzo(g,h,i)perylene	1.289	1.199	7.0	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN035523.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2		1,4-Dioxane	0.400	0.404	-1.0	91	0.00
3		n-Nitrosodimethylamine	0.400	0.428	-7.0	92	0.00
4	S	2-Fluorophenol	0.400	0.405	-1.3	88	-0.01
5	S	Phenol-d6	0.400	0.414	-3.5	92	0.00
6		bis(2-Chloroethyl)ether	0.400	0.376	6.0	85	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	95	-0.01
8	S	Nitrobenzene-d5	0.400	0.434	-8.5	107	-0.01
9		Naphthalene	0.400	0.389	2.8	93	-0.01
10		Hexachlorobutadiene	0.400	0.417	-4.2	97	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.400	0.0	96	-0.01
12		2-Methylnaphthalene	0.400	0.392	2.0	95	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	99	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.375	6.3	103	0.00
15	S	2-Fluorobiphenyl	0.400	0.383	4.3	95	-0.01
16		Acenaphthylene	0.400	0.370	7.5	97	-0.01
17		Acenaphthene	0.400	0.384	4.0	98	-0.01
18		Fluorene	0.400	0.387	3.3	99	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	95	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.281	29.8#	74	0.00
21		4-Bromophenyl-phenylether	0.400	0.392	2.0	96	-0.01
22		Hexachlorobenzene	0.400	0.406	-1.5	97	-0.01
23		Atrazine	0.400	0.358	10.5	92	0.00
24		Pentachlorophenol	0.400	0.301	24.8	89	-0.01
25		Phenanthrene	0.400	0.374	6.5	91	-0.01
26		Anthracene	0.400	0.359	10.3	90	0.00
27	SURR	Fluoranthene-d10	0.400	0.355	11.3	88	0.00
28		Fluoranthene	0.400	0.351	12.3	87	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30		Pyrene	0.400	0.411	-2.7	84	0.00
31	S	Terphenyl-d14	0.400	0.412	-3.0	84	0.00
32		Benzo(a)anthracene	0.400	0.354	11.5	75	0.00
33		Chrysene	0.400	0.400	0.0	82	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.389	2.8	85	0.00
35	I	Perylene-d12	0.400	0.400	0.0	74	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	68	-0.01
37		Benzo(b)fluoranthene	0.400	0.459	-14.8	94	0.00
38		Benzo(k)fluoranthene	0.400	0.395	1.3	75	0.00
39	C	Benzo(a)pyrene	0.400	0.357	10.8	69	0.00
40		Dibenzo(a,h)anthracene	0.400	0.350	12.5	66	-0.01
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG No.: P5166

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 09:33

Lab File ID: BN035525.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.622		-0.6	20.0
Fluoranthene-d10	1.134	0.995		-12.3	20.0
2-Fluorophenol	1.001	1.042		4.1	20.0
Phenol-d6	1.204	1.276		6.0	20.0
Nitrobenzene-d5	0.244	0.257		5.3	20.0
2-Fluorobiphenyl	1.512	1.496		-1.1	20.0
2,4,6-Tribromophenol	0.284	0.249		-12.3	20.0
Terphenyl-d14	0.789	0.834		5.7	20.0
1,4-Dioxane	0.382	0.382		0.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.293	152	2237	0.400	ng		-0.01
7) Naphthalene-d8	10.041	136	6161	0.400	ng		#-0.01
13) Acenaphthene-d10	13.957	164	4478	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	11122	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	9383	0.400	ng		0.00
35) Perylene-d12	23.059	264	8820	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	2331	0.416	ng		-0.01
5) Phenol-d6	6.499	99	2854	0.424	ng		-0.01
8) Nitrobenzene-d5	8.429	82	1583m	0.421	ng		-0.01
11) 2-Methylnaphthalene-d10	11.641	152	3832	0.397	ng		-0.02
14) 2,4,6-Tribromophenol	15.475	330	1114	0.350	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	6697	0.396	ng		-0.01
27) Fluoranthene-d10	18.775	212	11062	0.351	ng		0.00
31) Terphenyl-d14	19.407	244	7824	0.423	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	855	0.400	ng		98
3) n-Nitrosodimethylamine	3.292	42	766	0.430	ng	#	97
6) bis(2-Chloroethyl)ether	6.744	93	2173	0.384	ng		99
9) Naphthalene	10.084	128	6356	0.391	ng		99
10) Hexachlorobutadiene	10.383	225	1563	0.417	ng	#	99
12) 2-Methylnaphthalene	11.717	142	4569	0.393	ng		98
16) Acenaphthylene	13.668	152	6981	0.371	ng		99
17) Acenaphthene	14.010	154	4775	0.382	ng		100
18) Fluorene	15.015	166	6863	0.384	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	302	0.276	ng	#	80
21) 4-Bromophenyl-phenylether	15.929	248	2441	0.375	ng	#	88
22) Hexachlorobenzene	16.028	284	2985	0.391	ng		98
23) Atrazine	16.227	200	1581	0.341	ng		96
24) Pentachlorophenol	16.388	266	1026	0.309	ng		86
25) Phenanthrene	16.760	178	11604	0.380	ng		100
26) Anthracene	16.860	178	9999	0.362	ng		100
28) Fluoranthene	18.808	202	14397	0.350	ng		99
30) Pyrene	19.175	202	14606	0.422	ng		100
32) Benzo(a)anthracene	20.947	228	11650	0.355	ng		99
33) Chrysene	21.000	228	13503	0.399	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4730	0.365	ng		100
36) Indeno(1,2,3-cd)pyrene	25.093	276	11862	0.344	ng		98
37) Benzo(b)fluoranthene	22.445	252	14172	0.439	ng		99
38) Benzo(k)fluoranthene	22.485	252	12715	0.400	ng		99
39) Benzo(a)pyrene	22.971	252	9673	0.364	ng		98
40) Dibenzo(a,h)anthracene	25.117	278	8943	0.329	ng		97
41) Benzo(g,h,i)perylene	25.710	276	10586	0.372	ng		98

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

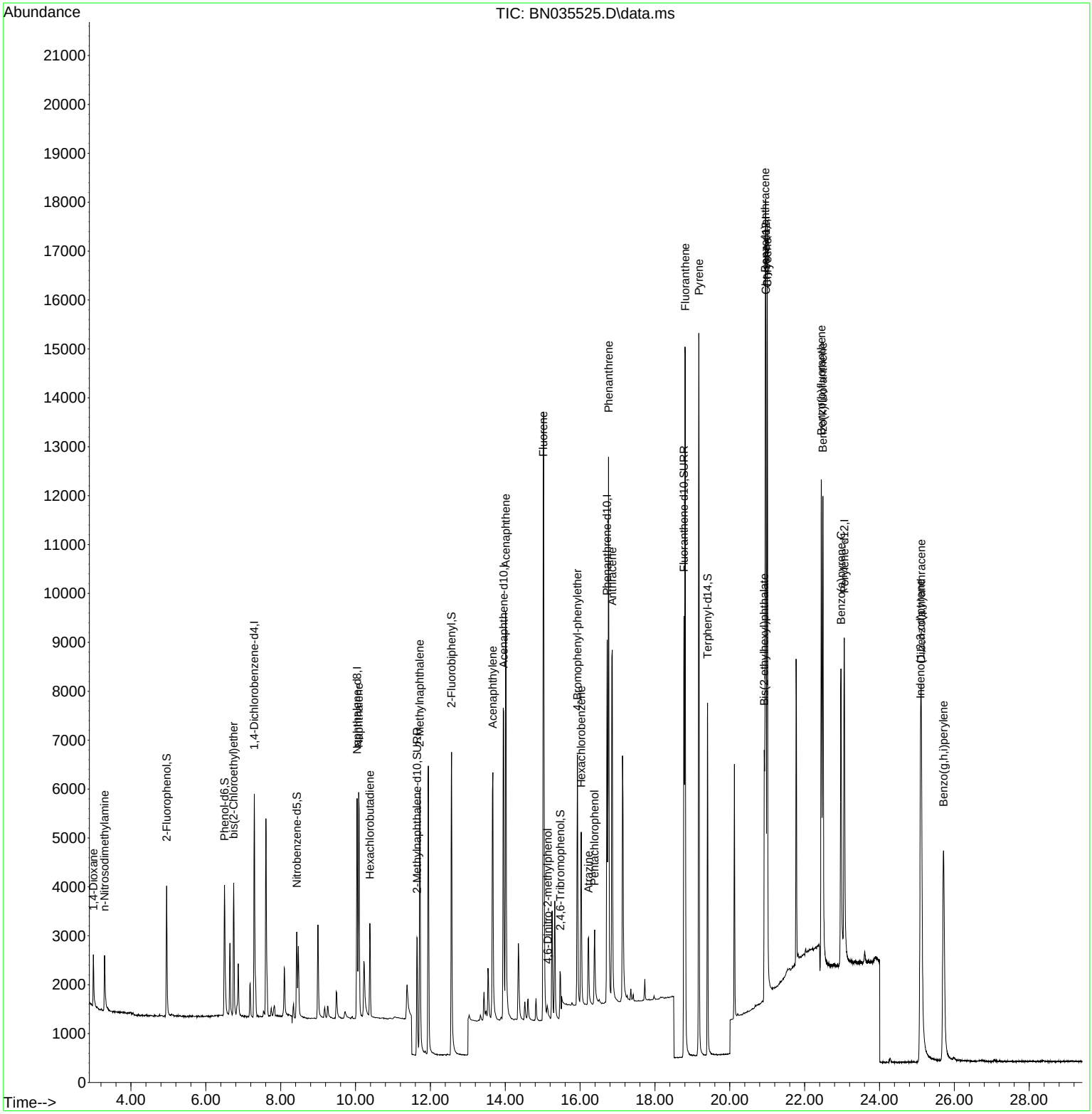
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

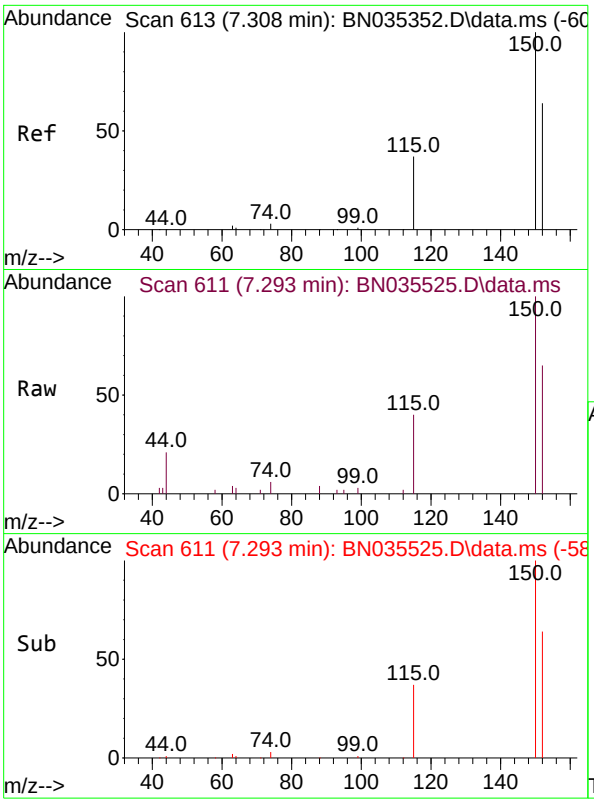
Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

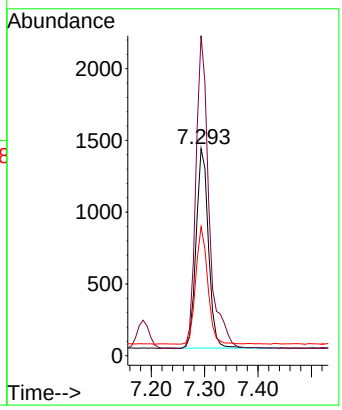




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:152 Resp: 223

Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.0	186.0
115	62.3	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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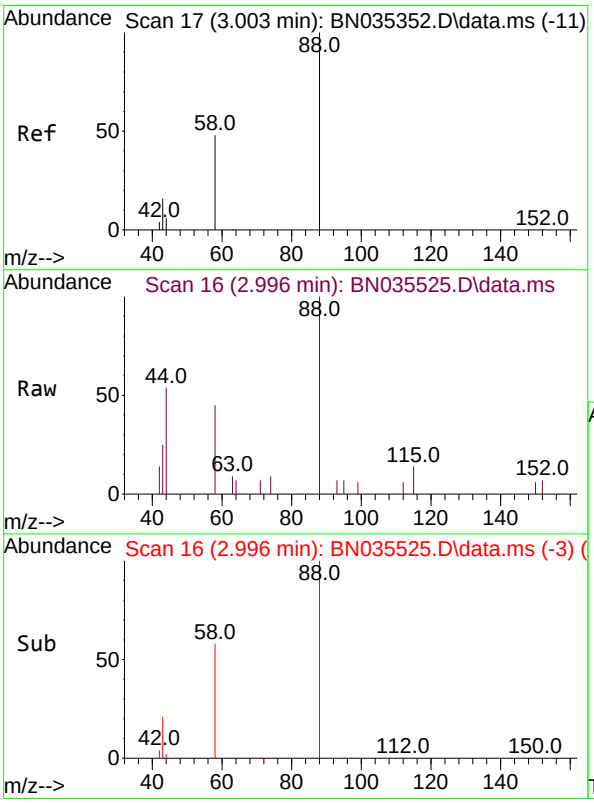
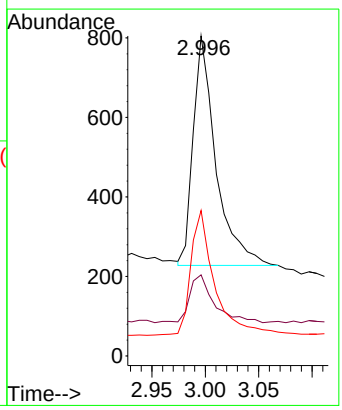
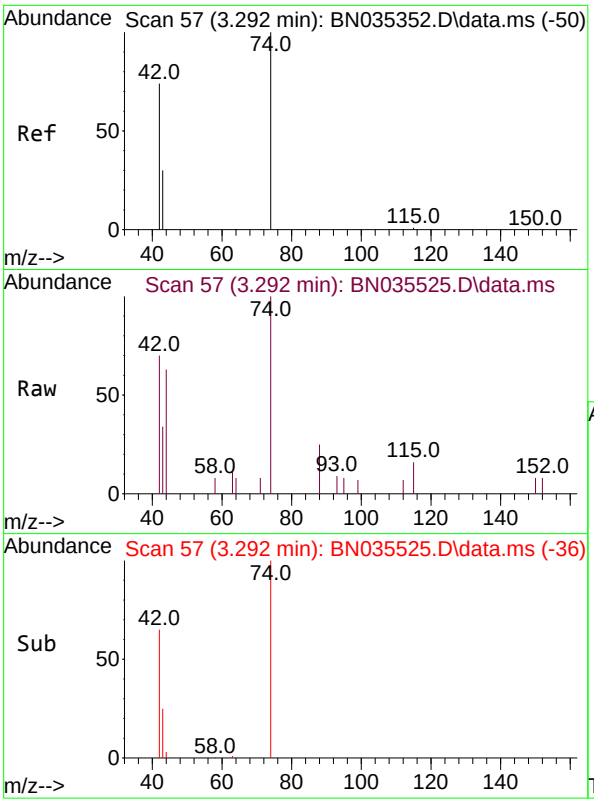


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 88 Resp: 855

Ion	Ratio	Lower	Upper
88	100		
43	20.9	17.2	25.8
58	57.2	44.5	66.7

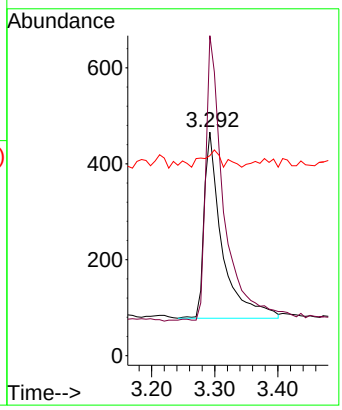




#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 42 Resp: 76

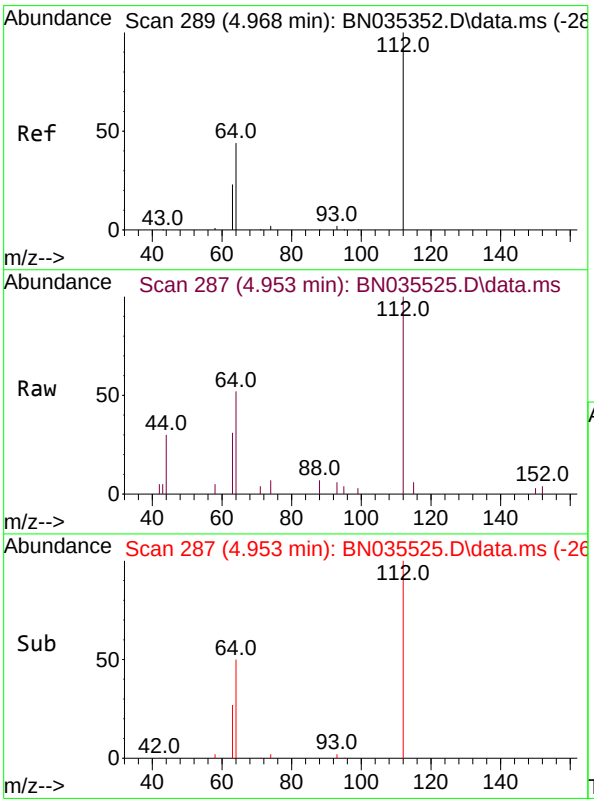
Ion	Ratio	Lower	Upper
42	100		
74	152.3	124.9	187.3
44	8.4	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

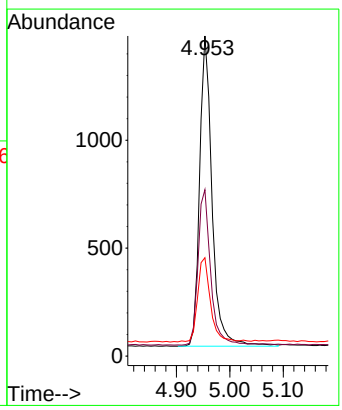
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

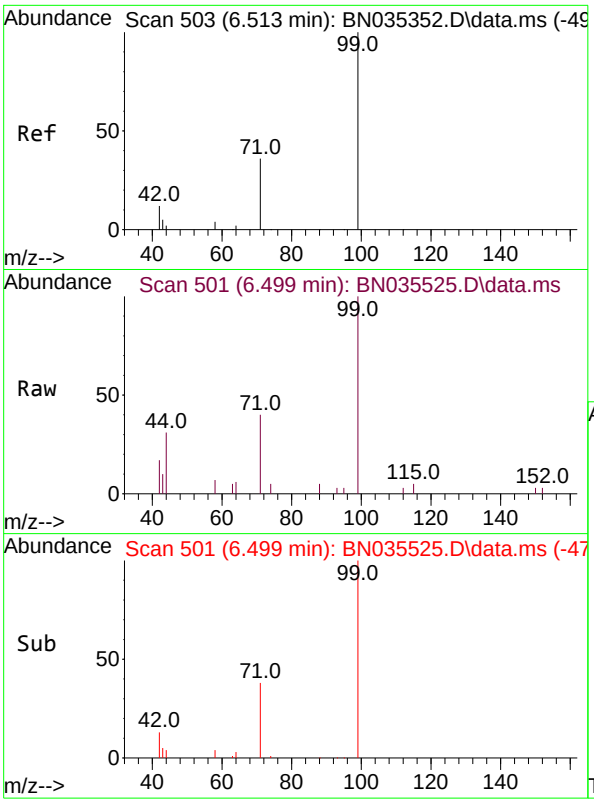


#4
2-Fluorophenol
Concen: 0.416 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:112 Resp: 2331

Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.1	21.0	31.6





#5
Phenol-d6
Concen: 0.424 ng
RT: 6.499 min Scan# 5(
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

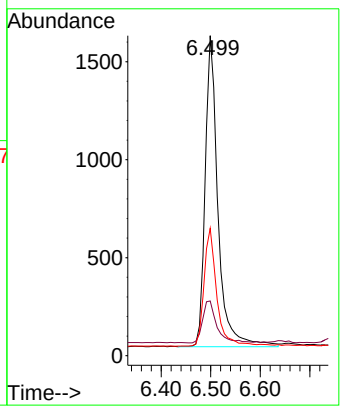
Tgt Ion: 99 Resp: 285

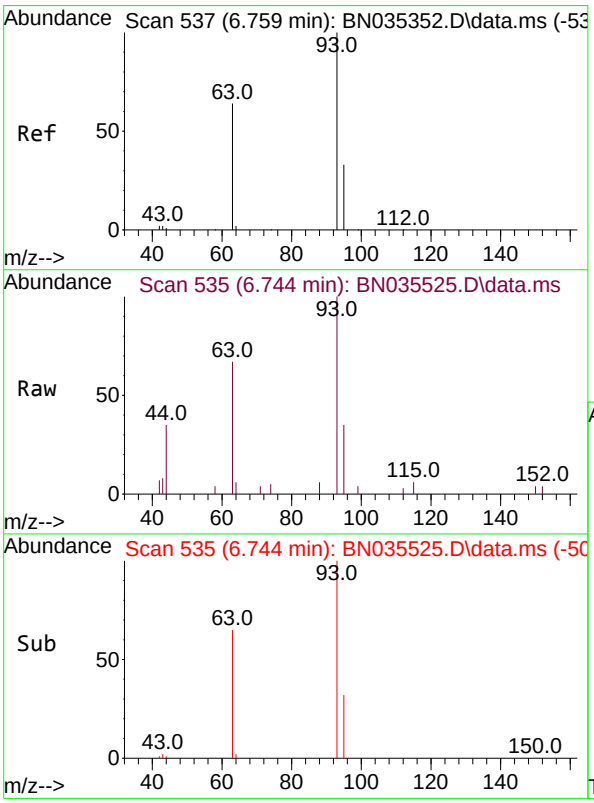
Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.2	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

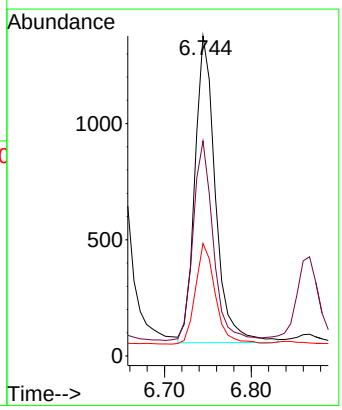


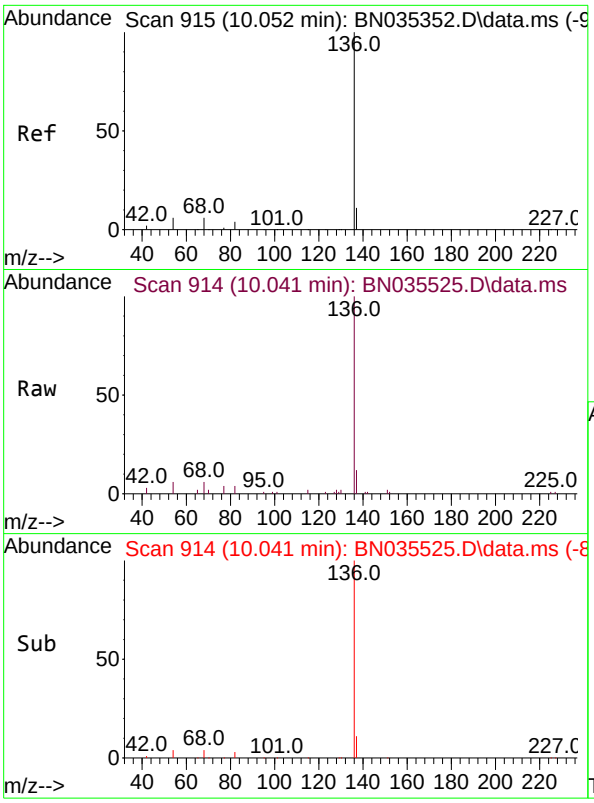


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 93 Resp: 2173

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5

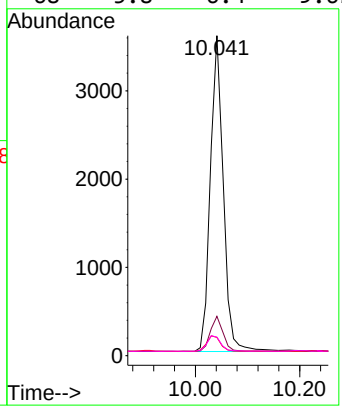




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:136 Resp: 616

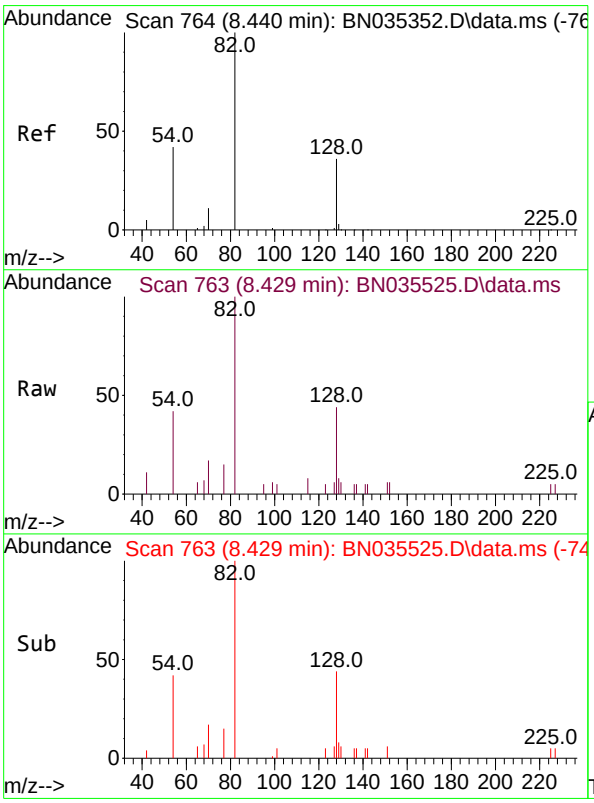
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	5.7	6.1	9.1#
68	5.8	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

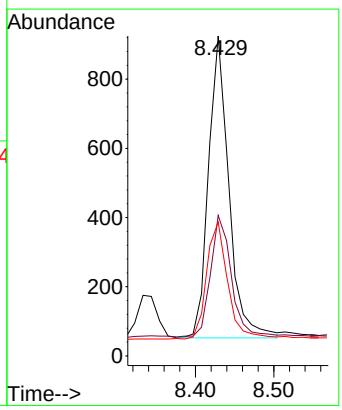
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

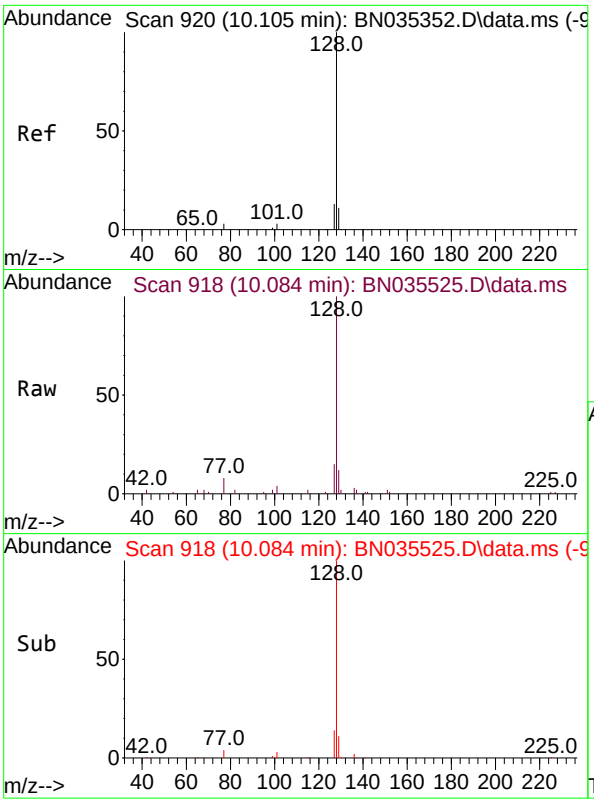


#8
Nitrobenzene-d5
Concen: 0.421 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 82 Resp: 1583

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	41.8	36.7	55.1





#9
Naphthalene
Concen: 0.391 ng
RT: 10.084 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:128 Resp: 635

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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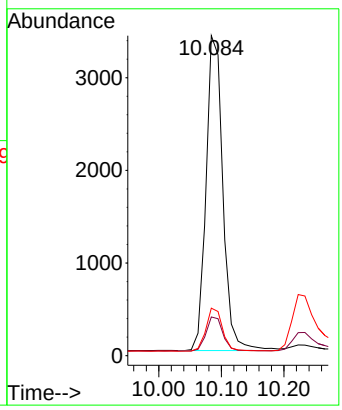
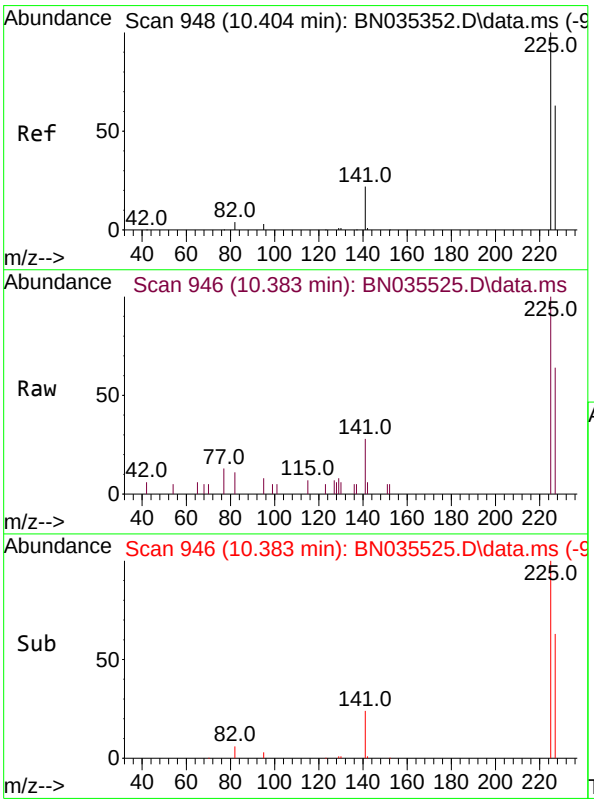
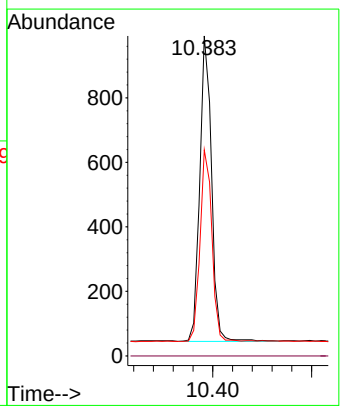


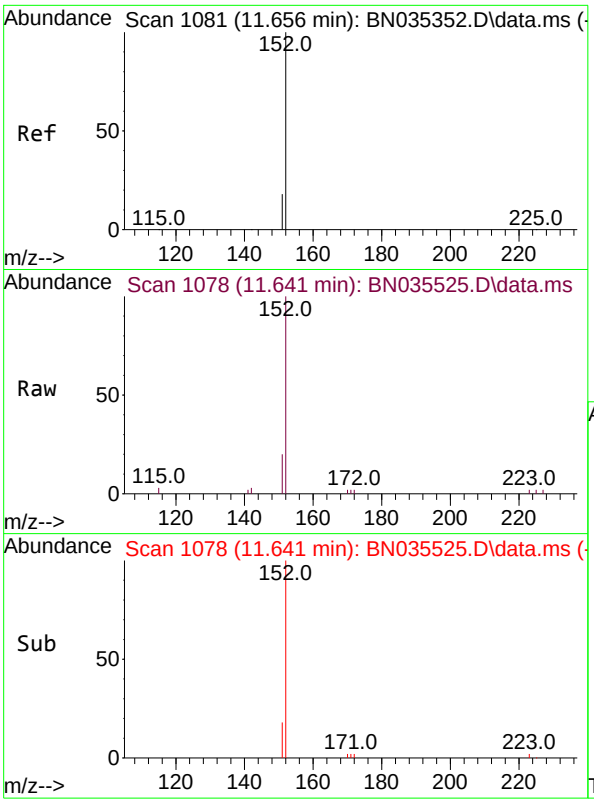


#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:225 Resp: 1563

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	51.3	76.9

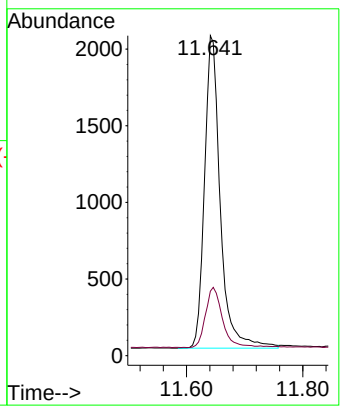




#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.641 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:152 Resp: 383

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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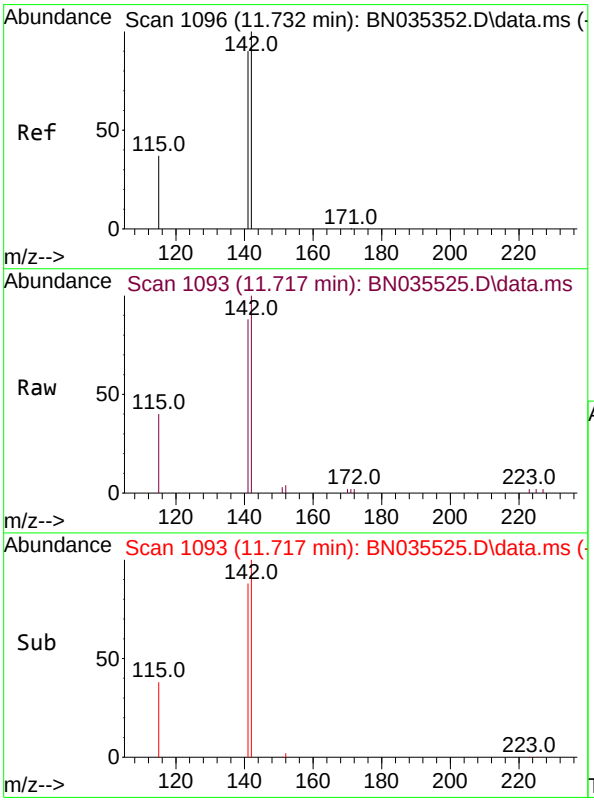
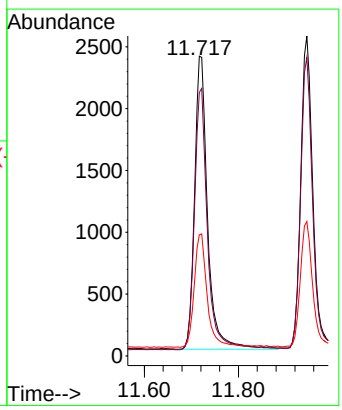
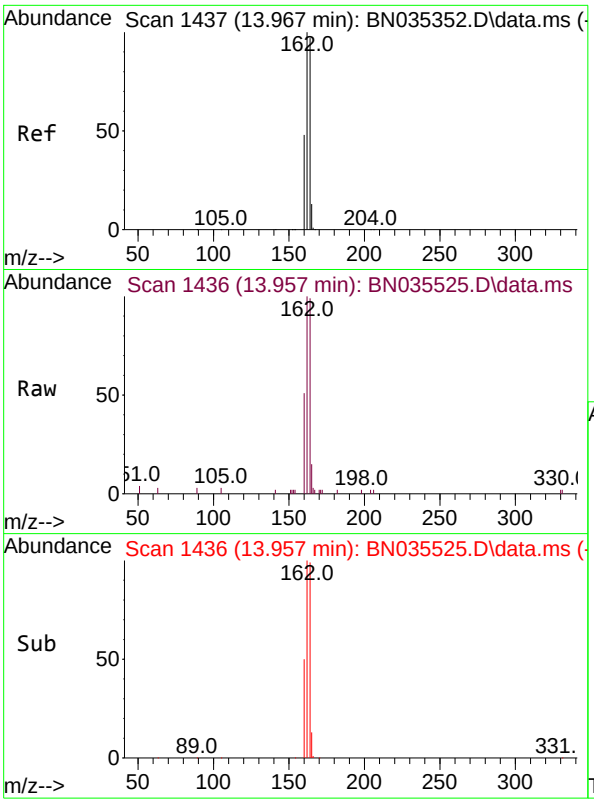


#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:142 Resp: 4569

Ion	Ratio	Lower	Upper
142	100		
141	87.9	72.2	108.4
115	40.4	31.4	47.0

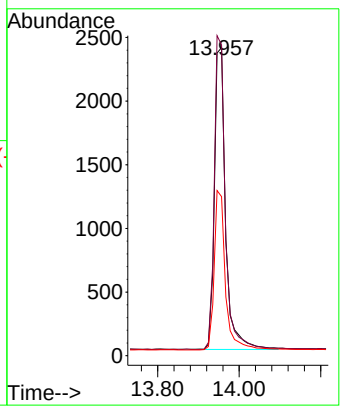




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:164 Resp: 447

Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.2	123.2
160	51.7	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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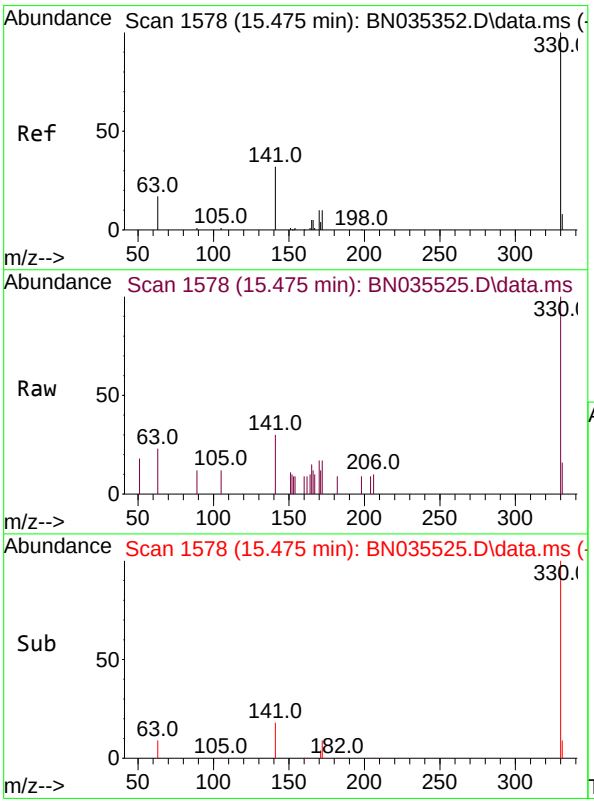
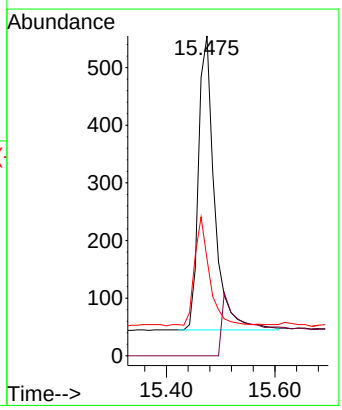
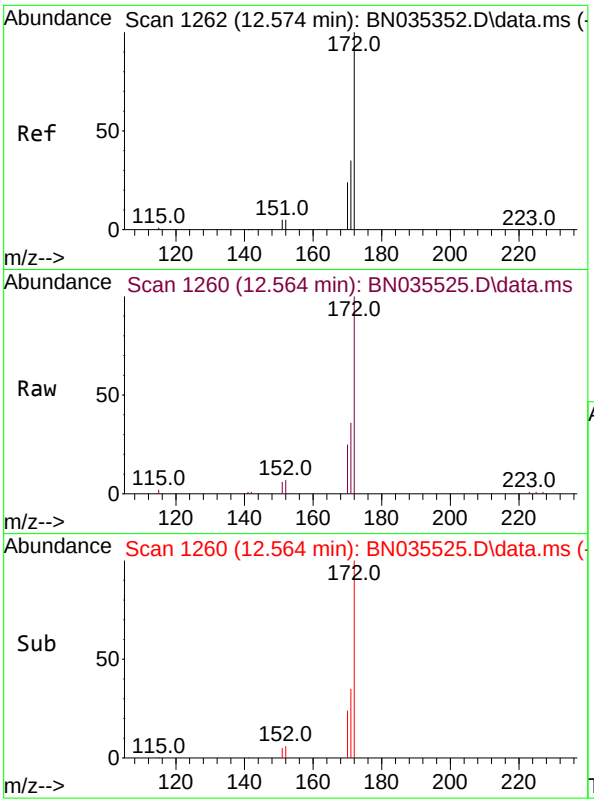


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:330 Resp: 1114

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

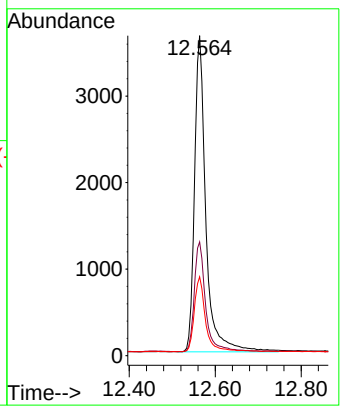




#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:172 Resp: 669

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	24.6	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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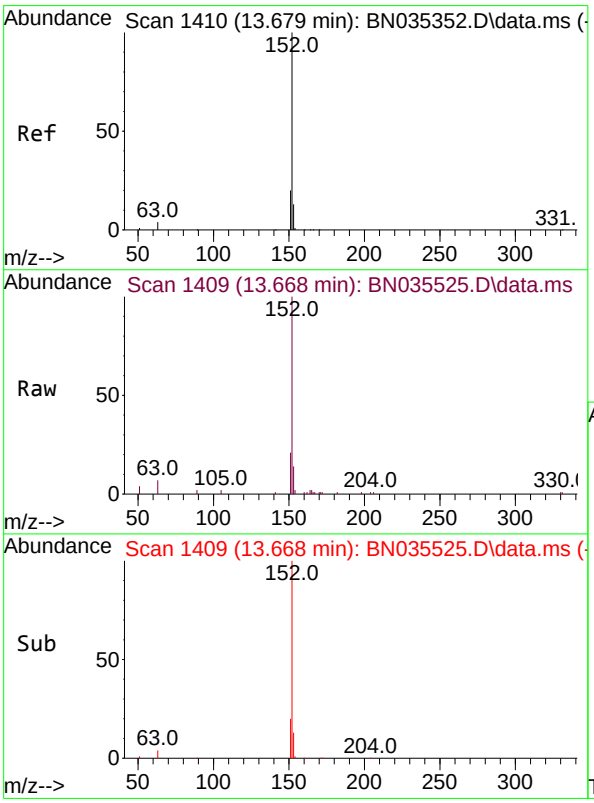
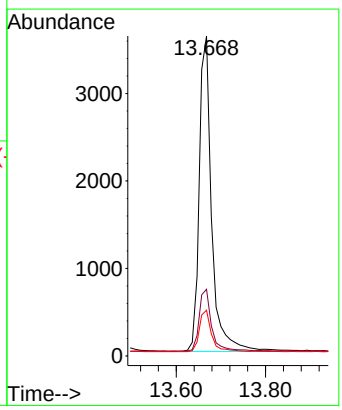
Supervised By :mohammad ahmed 12/11/2024

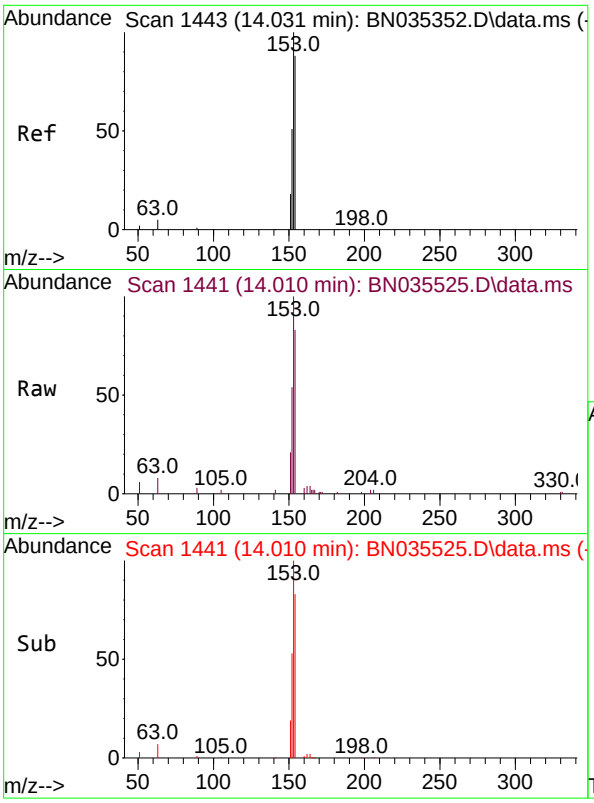


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:152 Resp: 6981

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.8	10.4	15.6

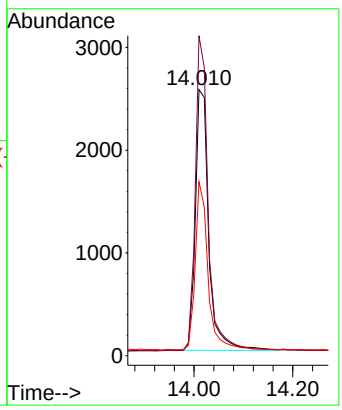




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.010 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:154 Resp: 477

Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	61.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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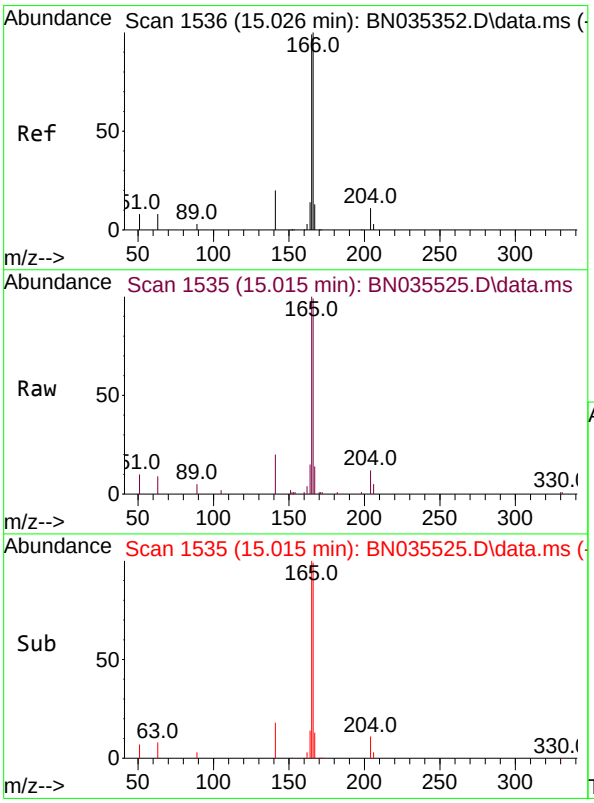
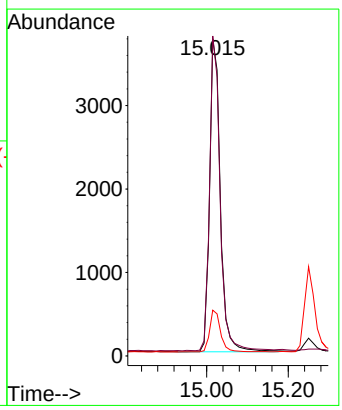
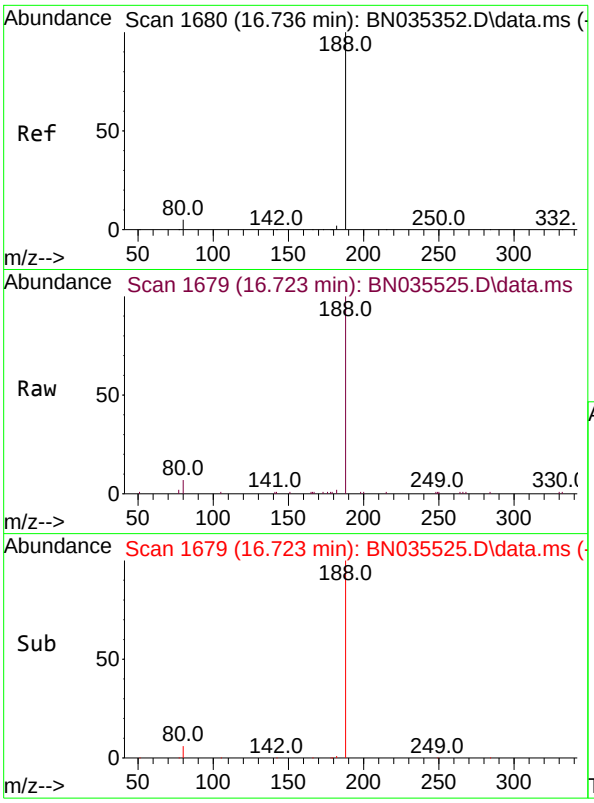


#18
Fluorene
Concen: 0.384 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:166 Resp: 6863

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.7	119.5
167	13.5	10.8	16.2

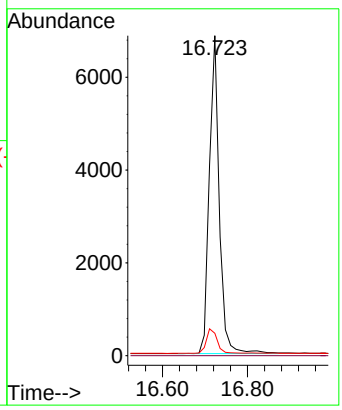




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:188 Resp: 1112

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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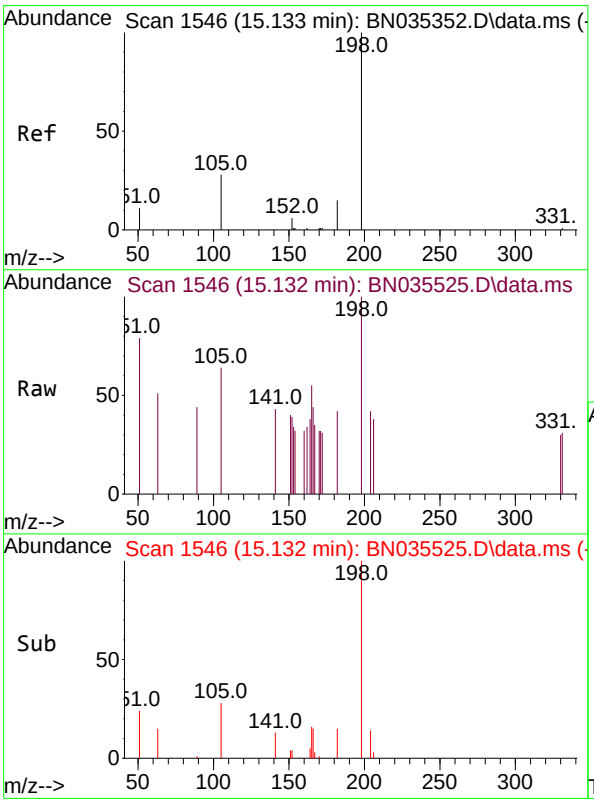
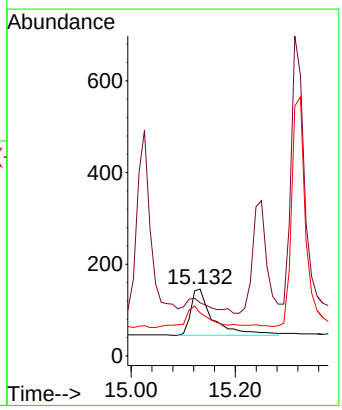
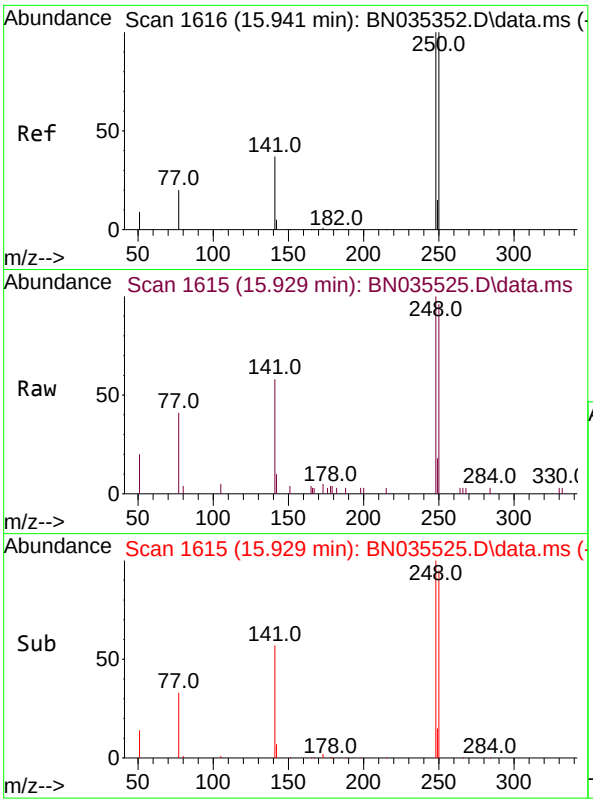


#20
4,6-Dinitro-2-methylphenol
Concen: 0.276 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:198 Resp: 302

Ion	Ratio	Lower	Upper
198	100		
51	79.5	46.5	69.7#
105	64.4	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.929 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:248 Resp: 244

Ion	Ratio	Lower	Upper
248	100		
250	95.9	80.6	120.8
141	58.2	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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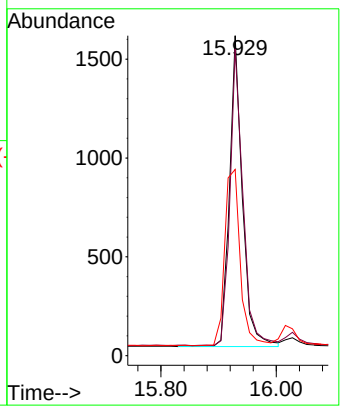
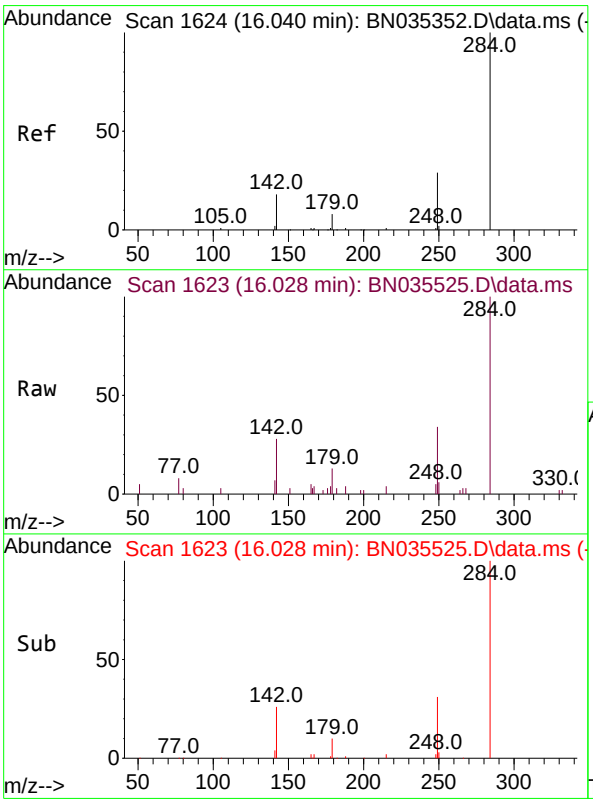
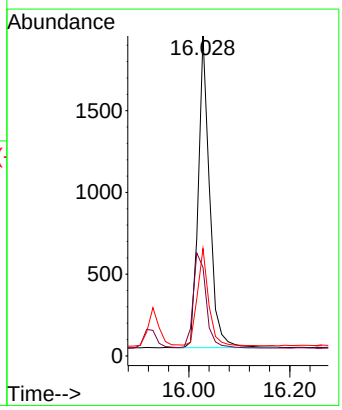


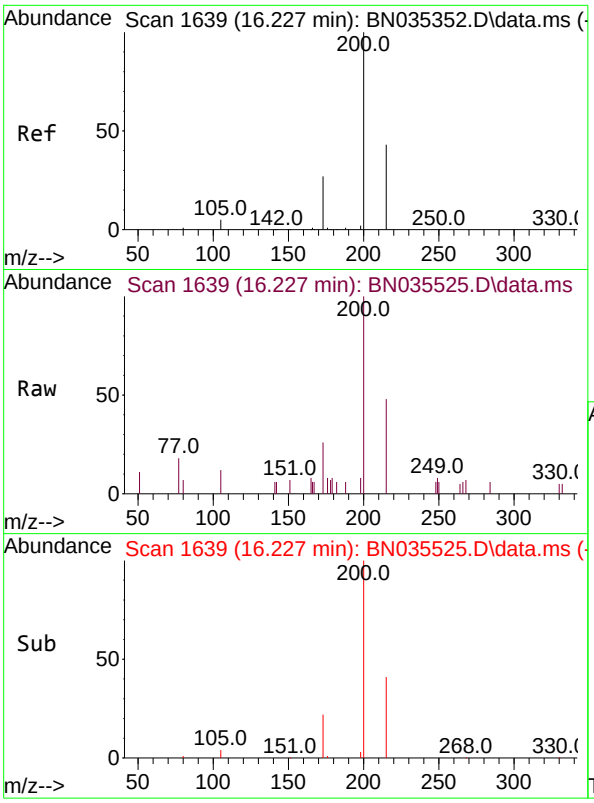


#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:284 Resp: 2985

Ion	Ratio	Lower	Upper
284	100		
142	35.0	26.7	40.1
249	31.2	24.6	36.8

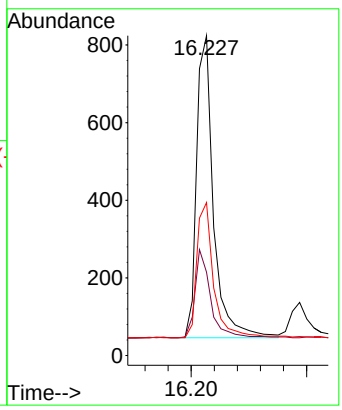




#23
Atrazine
Concen: 0.341 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:200 Resp: 158

Ion	Ratio	Lower	Upper
200	100		
173	26.1	24.1	36.1
215	47.8	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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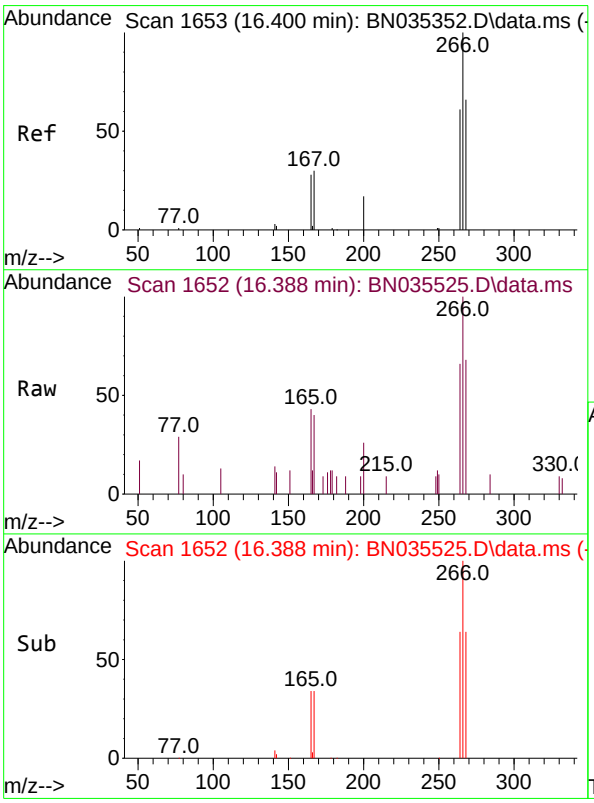
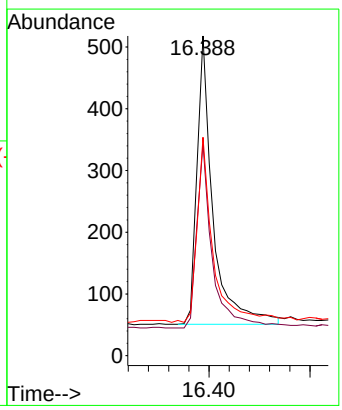
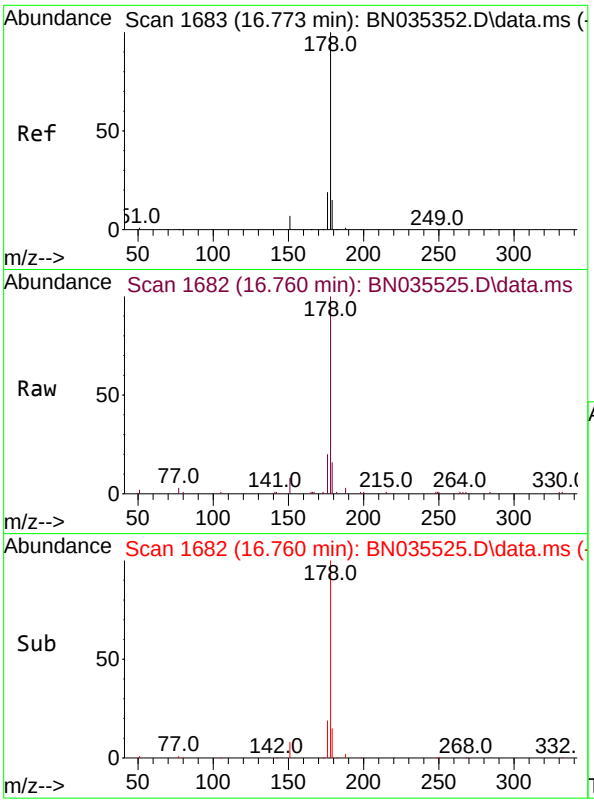


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:266 Resp: 1026

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	64.4	43.3	64.9

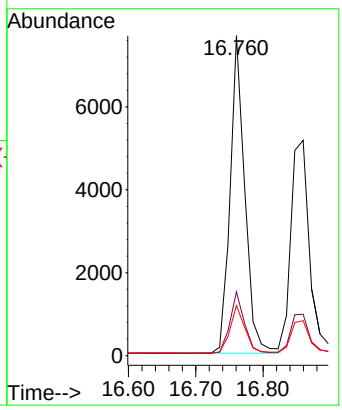




#25
Phenanthrene
Concen: 0.380 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:178 Resp: 1160

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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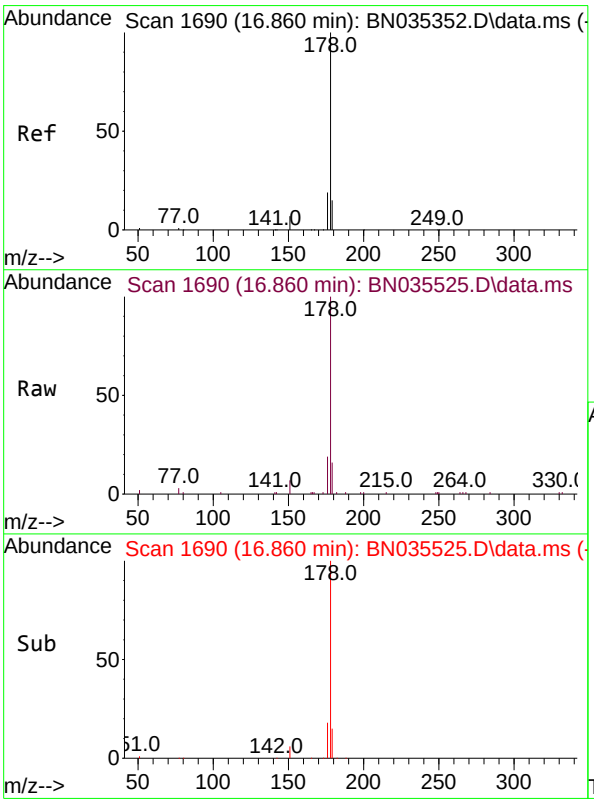
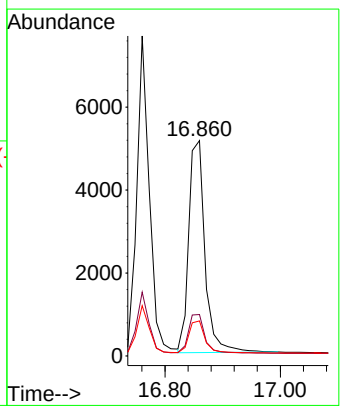
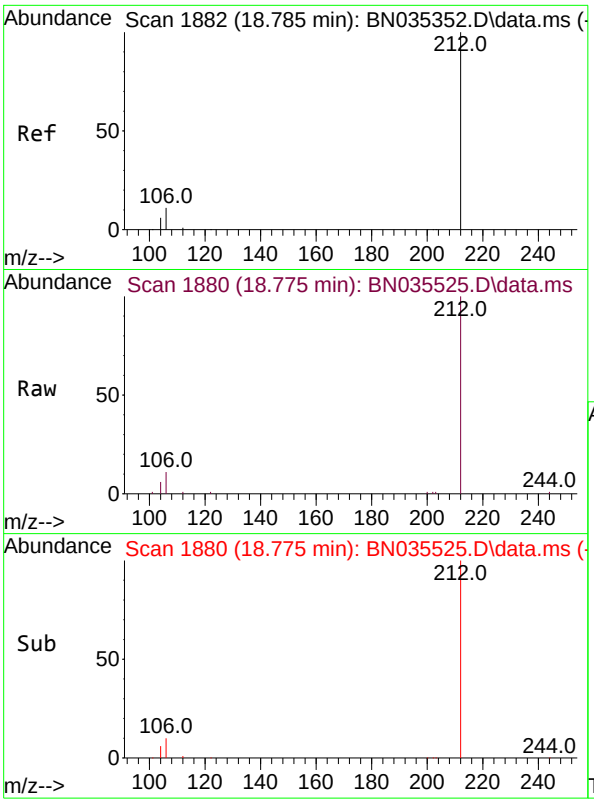


#26
Anthracene
Concen: 0.362 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:178 Resp: 9999

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8

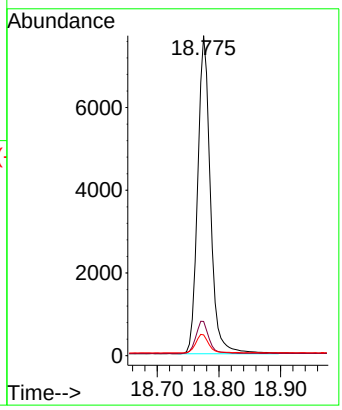




#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:212 Resp: 1106

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.2	13.8
104	5.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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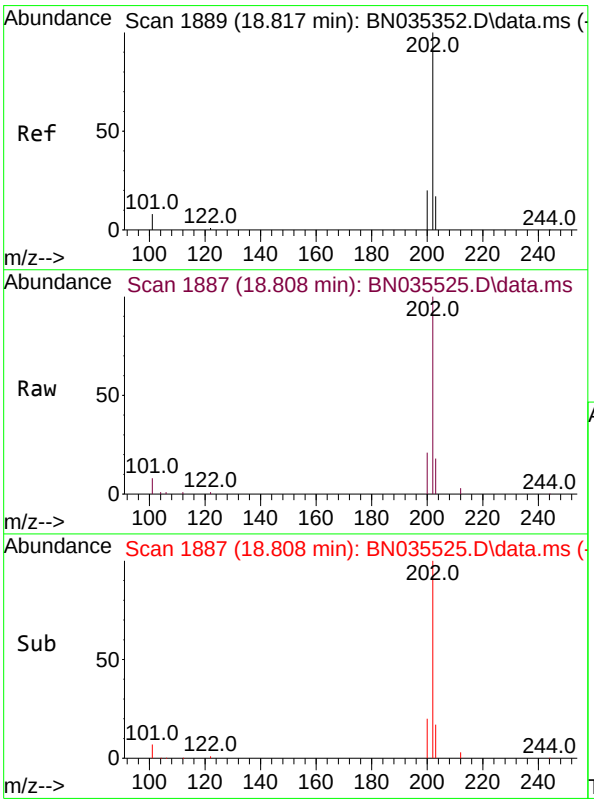
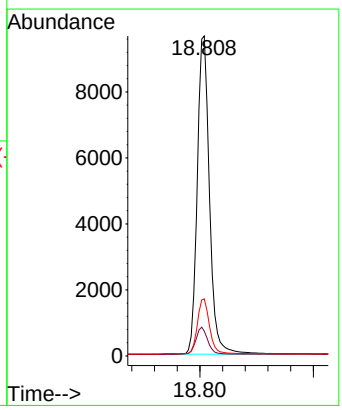
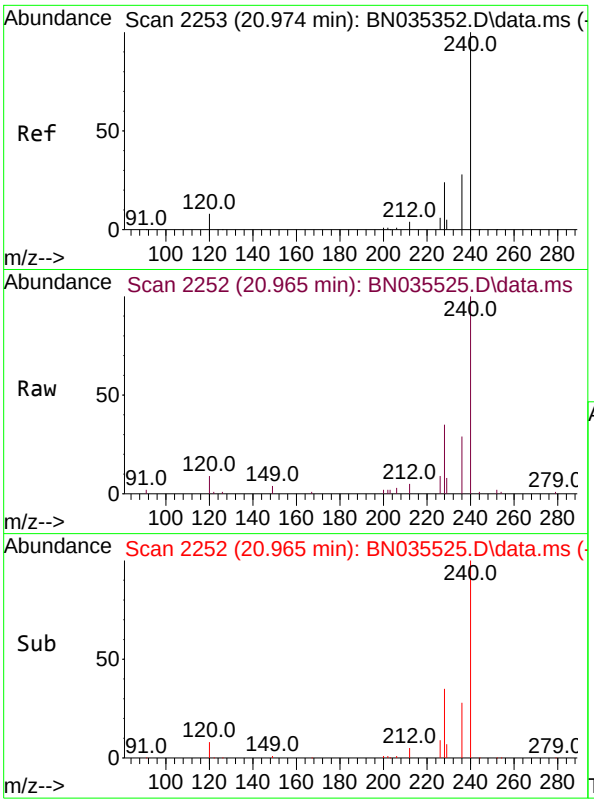


#28
Fluoranthene
Concen: 0.350 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14397

Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.4	11.0
203	16.9	13.7	20.5

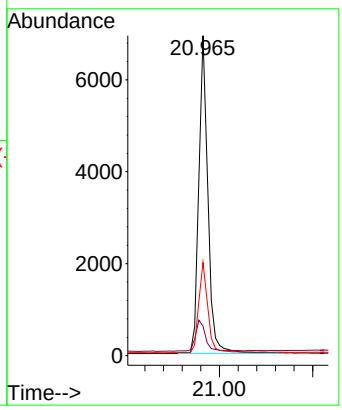




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:240 Resp: 938

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.9	11.9
236	29.1	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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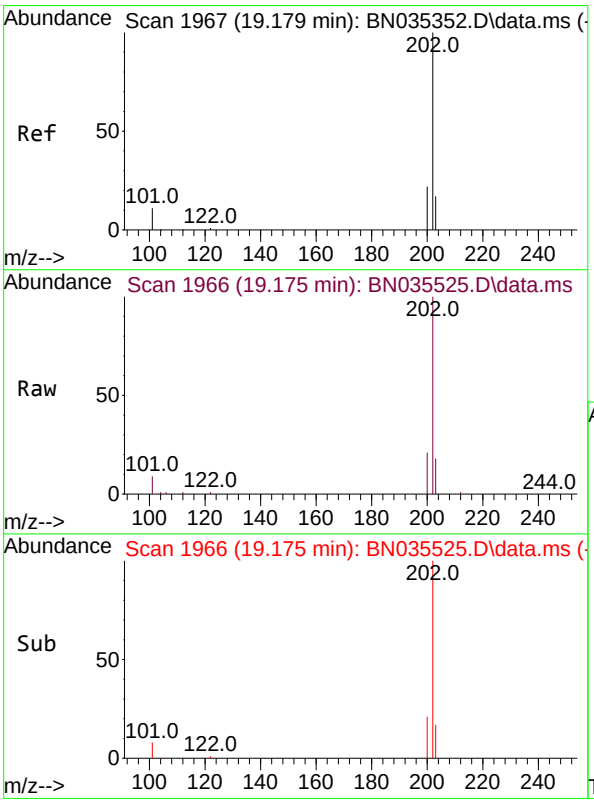
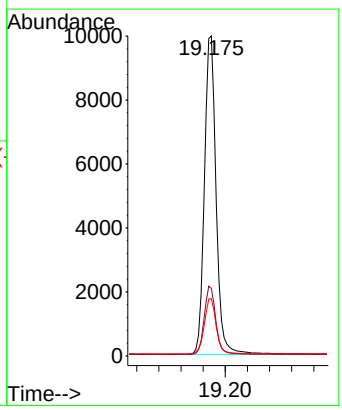
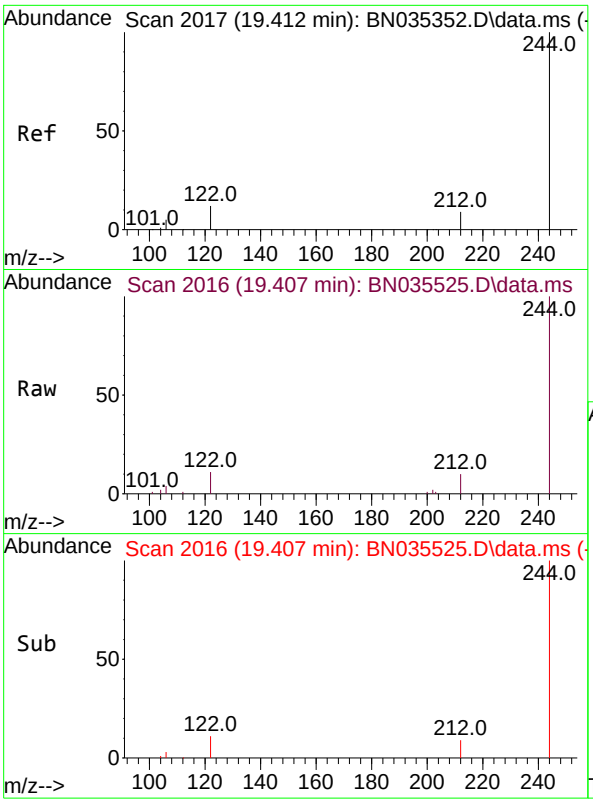


#30
Pyrene
Concen: 0.422 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14606

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.8	14.3	21.5

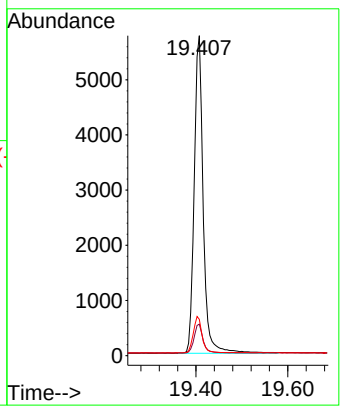




#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:244 Resp: 782

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	11.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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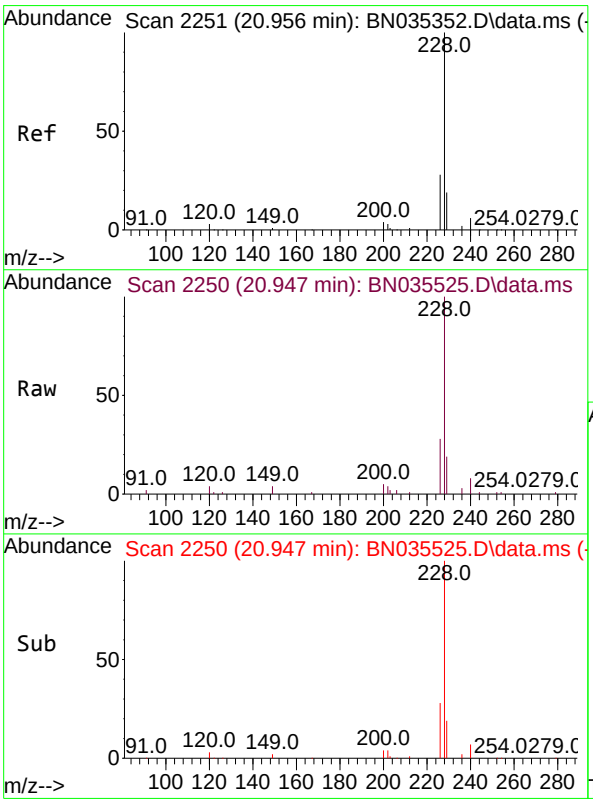
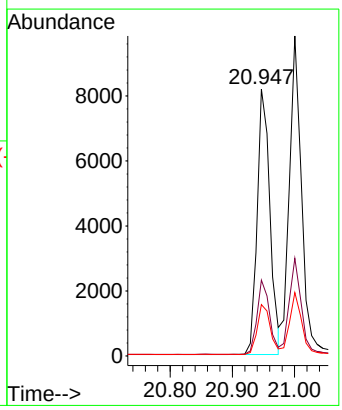
Supervised By :mohammad ahmed 12/11/2024

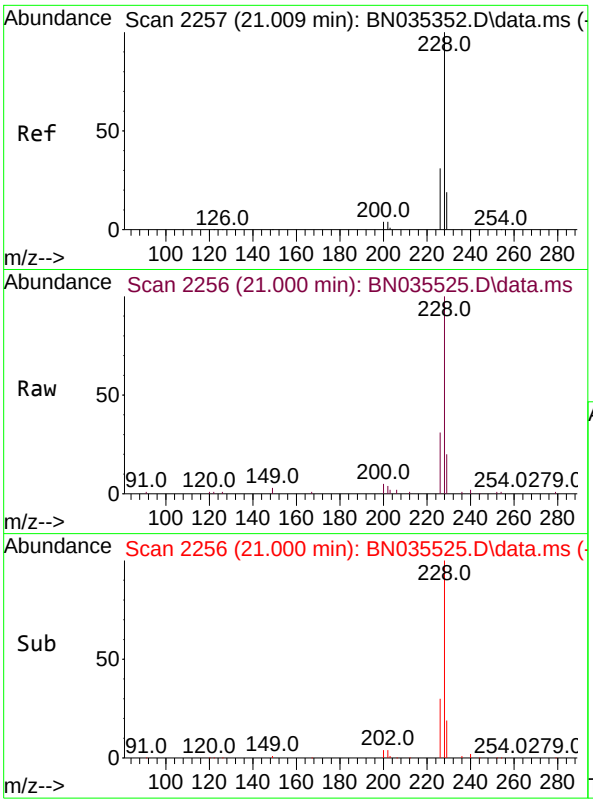


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:228 Resp: 11650

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	19.2	15.8	23.8

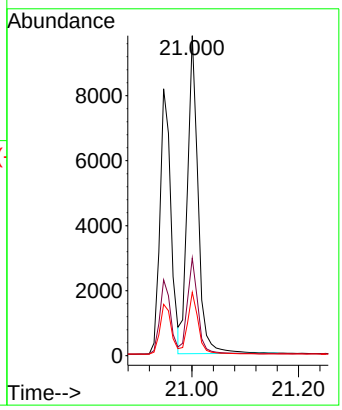




#33
Chrysene
Concen: 0.399 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:228 Resp: 1350

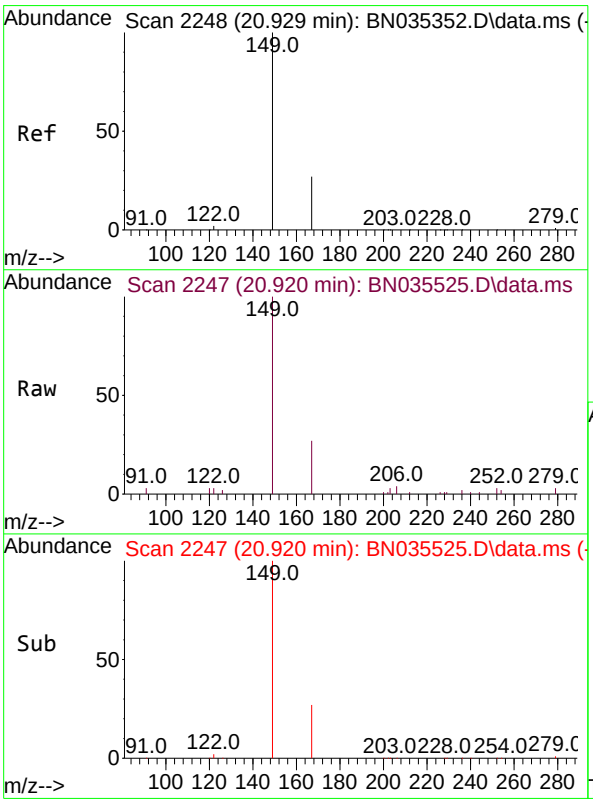
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

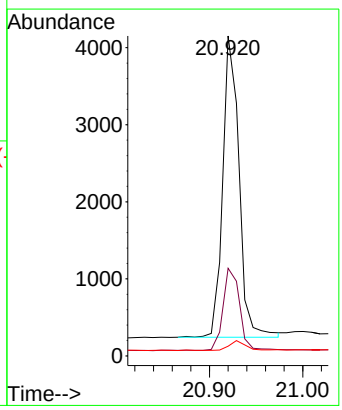
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

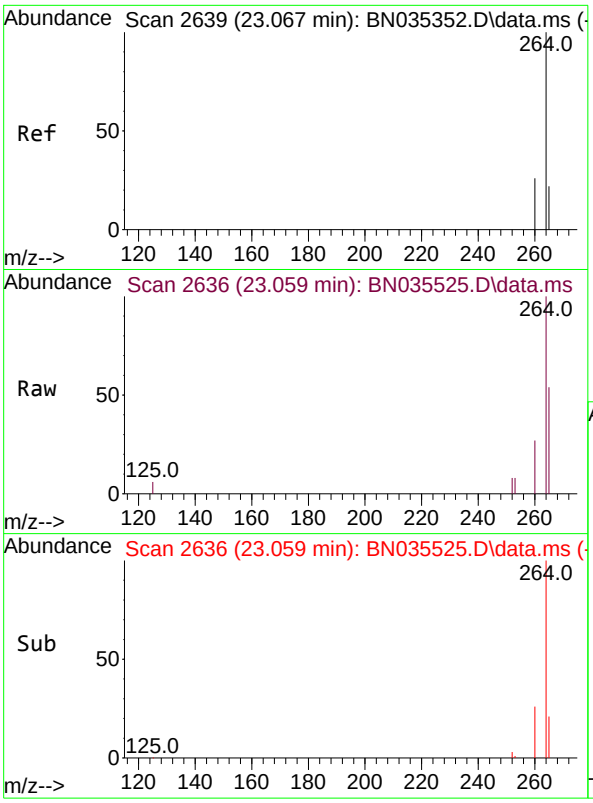


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:149 Resp: 4730

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

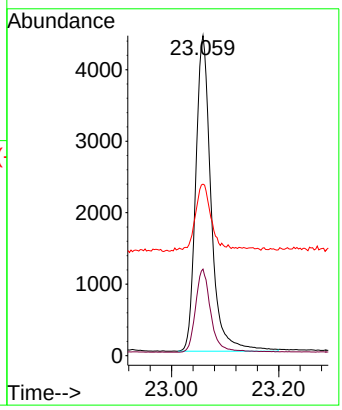
Tgt Ion:264 Resp: 882

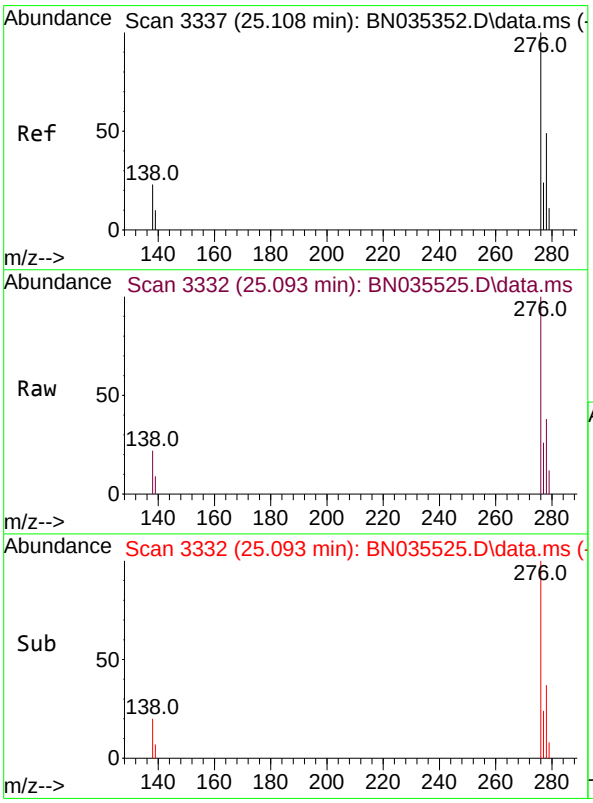
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	53.6	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

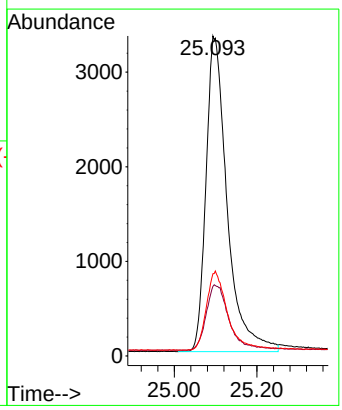


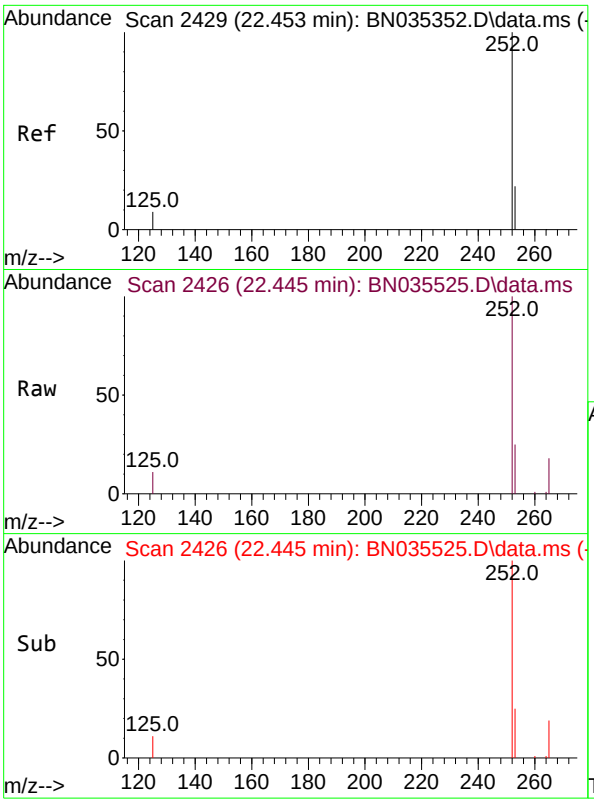


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.344 ng
RT: 25.093 min Scan# 3332
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:276 Resp: 11862

Ion	Ratio	Lower	Upper
276	100		
138	22.0	19.4	29.0
277	25.0	19.8	29.6

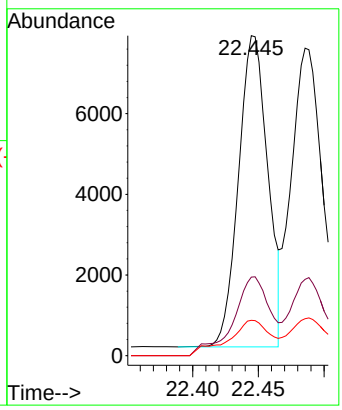




#37
Benzo(b)fluoranthene
Concen: 0.439 ng
RT: 22.445 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:252 Resp: 1417

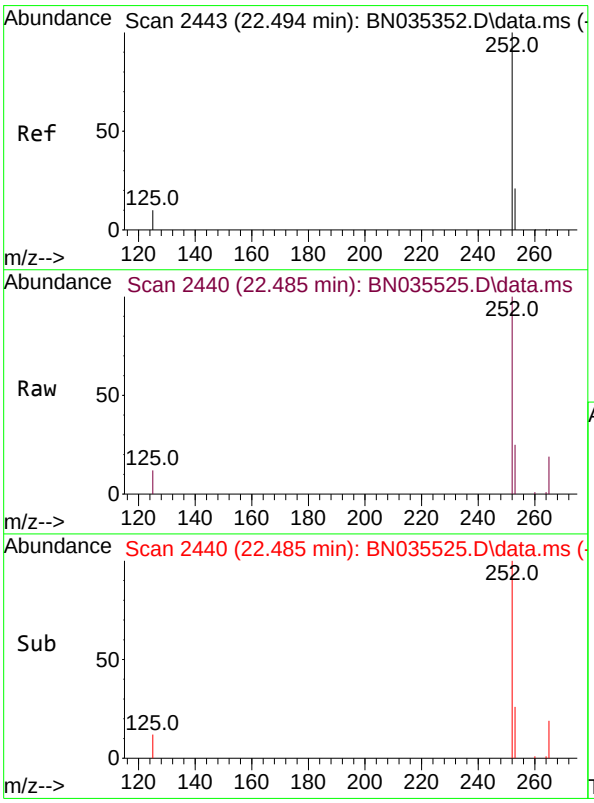
Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.6	29.4
125	11.1	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

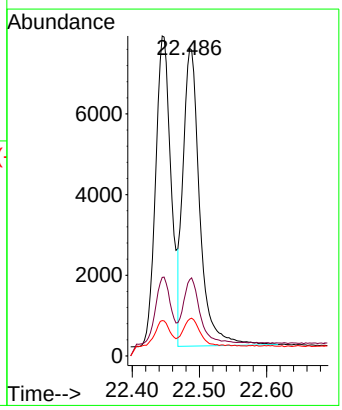
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

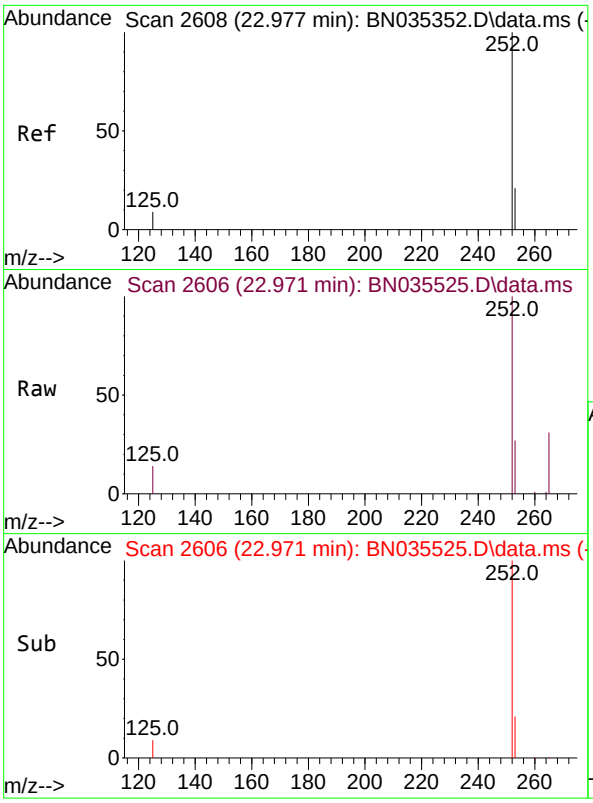


#38
Benzo(k)fluoranthene
Concen: 0.400 ng
RT: 22.485 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:252 Resp: 12715

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.0	10.2	15.4

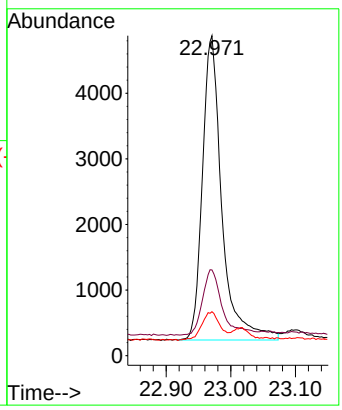




#39
Benzo(a)pyrene
Concen: 0.364 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:252 Resp: 967

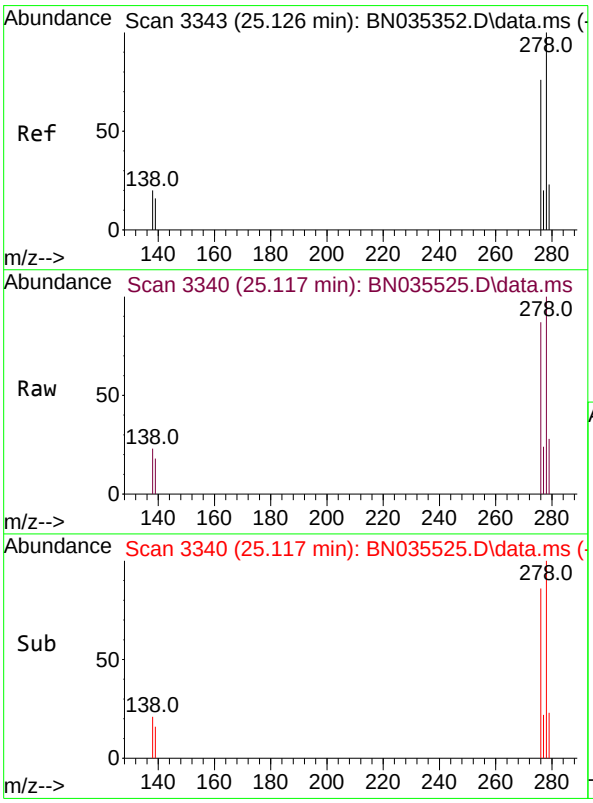
Ion	Ratio	Lower	Upper
252	100		
253	26.8	20.2	30.4
125	13.8	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

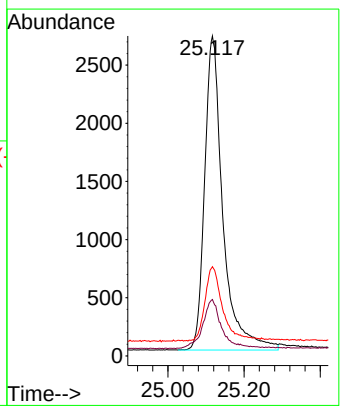
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

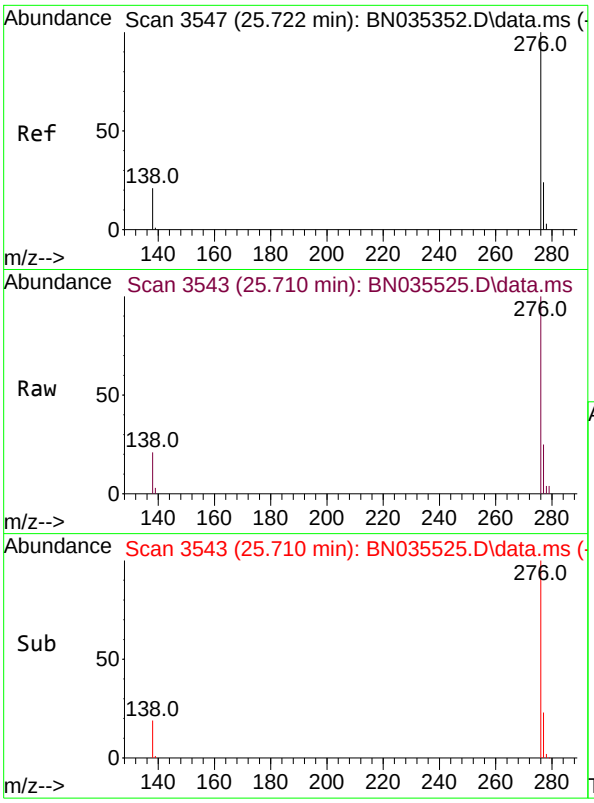


#40
Dibenzo(a,h)anthracene
Concen: 0.329 ng
RT: 25.117 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:278 Resp: 8943

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	27.9	20.5	30.7

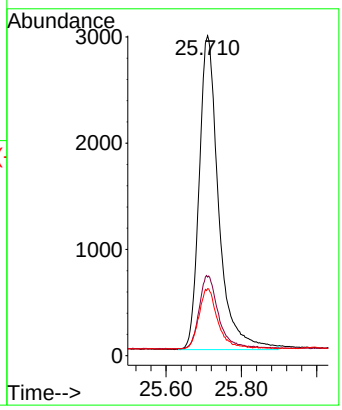




#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:276 Resp: 1058

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	21.0	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Sample Results: **BN035525.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	-0.01
2		1,4-Dioxane	0.382	0.382	0.0	111	0.00
3		n-Nitrosodimethylamine	0.319	0.342	-7.2	115	0.00
4	S	2-Fluorophenol	1.001	1.042	-4.1	112	-0.01
5	S	Phenol-d6	1.204	1.276	-6.0	117	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.971	4.1	107	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	118	-0.01
8	S	Nitrobenzene-d5	0.244	0.257	-5.3	129	-0.01
9		Naphthalene	1.055	1.032	2.2	116	-0.02
10		Hexachlorobutadiene	0.243	0.254	-4.5	121	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.622	0.6	118	-0.02
12		2-Methylnaphthalene	0.755	0.742	1.7	118	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.249	12.3	114	0.00
15	S	2-Fluorobiphenyl	1.512	1.496	1.1	117	-0.01
16		Acenaphthylene	1.680	1.559	7.2	115	-0.01
17		Acenaphthene	1.115	1.066	4.4	116	-0.02
18		Fluorene	1.596	1.533	3.9	117	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	117	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.027	30.8#	90	0.00
21		4-Bromophenyl-phenylether	0.234	0.219	6.4	114	-0.01
22		Hexachlorobenzene	0.275	0.268	2.5	115	-0.01
23		Atrazine	0.167	0.142	15.0	108	0.00
24		Pentachlorophenol	0.120	0.092	23.3	113	-0.01
25		Phenanthrene	1.099	1.043	5.1	115	-0.01
26		Anthracene	0.994	0.899	9.6	112	0.00
27	SURR	Fluoranthene-d10	1.134	0.995	12.3	108	0.00
28		Fluoranthene	1.481	1.294	12.6	107	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	98	0.00
30		Pyrene	1.477	1.557	-5.4	104	0.00
31	S	Terphenyl-d14	0.789	0.834	-5.7	104	0.00
32		Benzo(a)anthracene	1.399	1.242	11.2	90	0.00
33		Chrysene	1.443	1.439	0.3	98	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.504	8.9	96	0.00
35	I	Perylene-d12	1.000	1.000	0.0	81	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.345	14.0	71	-0.01
37		Benzo(b)fluoranthene	1.463	1.607	-9.8	100	0.00
38		Benzo(k)fluoranthene	1.440	1.442	-0.1	84	0.00
39	C	Benzo(a)pyrene	1.205	1.097	9.0	78	0.00
40		Dibenzo(a,h)anthracene	1.234	1.014	17.8	69	0.00
41		Benzo(g,h,i)perylene	1.289	1.200	6.9	78	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035525.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	109	-0.01
2		1,4-Dioxane	0.400	0.400	0.0	111	0.00
3		n-Nitrosodimethylamine	0.400	0.430	-7.5	115	0.00
4	S	2-Fluorophenol	0.400	0.416	-4.0	112	-0.01
5	S	Phenol-d6	0.400	0.424	-6.0	117	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.384	4.0	107	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	118	-0.01
8	S	Nitrobenzene-d5	0.400	0.421	-5.2	129	-0.01
9		Naphthalene	0.400	0.391	2.3	116	-0.02
10		Hexachlorobutadiene	0.400	0.417	-4.2	121	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	118	-0.02
12		2-Methylnaphthalene	0.400	0.393	1.8	118	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.350	12.5	114	0.00
15	S	2-Fluorobiphenyl	0.400	0.396	1.0	117	-0.01
16		Acenaphthylene	0.400	0.371	7.3	115	-0.01
17		Acenaphthene	0.400	0.382	4.5	116	-0.02
18		Fluorene	0.400	0.384	4.0	117	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	117	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.276	31.0#	90	0.00
21		4-Bromophenyl-phenylether	0.400	0.375	6.3	114	-0.01
22		Hexachlorobenzene	0.400	0.391	2.3	115	-0.01
23		Atrazine	0.400	0.341	14.8	108	0.00
24		Pentachlorophenol	0.400	0.309	22.8	113	-0.01
25		Phenanthrene	0.400	0.380	5.0	115	-0.01
26		Anthracene	0.400	0.362	9.5	112	0.00
27	SURR	Fluoranthene-d10	0.400	0.351	12.3	108	0.00
28		Fluoranthene	0.400	0.350	12.5	107	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	98	0.00
30		Pyrene	0.400	0.422	-5.5	104	0.00
31	S	Terphenyl-d14	0.400	0.423	-5.7	104	0.00
32		Benzo(a)anthracene	0.400	0.355	11.3	90	0.00
33		Chrysene	0.400	0.399	0.3	98	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.365	8.8	96	0.00
35	I	Perylene-d12	0.400	0.400	0.0	81	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.344	14.0	71	-0.01
37		Benzo(b)fluoranthene	0.400	0.439	-9.7	100	0.00
38		Benzo(k)fluoranthene	0.400	0.400	0.0	84	0.00
39	C	Benzo(a)pyrene	0.400	0.364	9.0	78	0.00
40		Dibenzo(a,h)anthracene	0.400	0.329	17.8	69	0.00
41		Benzo(g,h,i)perylene	0.400	0.372	7.0	78	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5166 SAS No.: P5166 SDG No.: P5166

Instrument ID: BNA_N Calibration Date/Time: 12/10/2024 12:40

Lab File ID: BN035530.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.609		-2.7	50.0
Fluoranthene-d10	1.134	0.937		-17.4	50.0
2-Fluorophenol	1.001	0.987		-1.4	50.0
Phenol-d6	1.204	1.206		0.2	50.0
Nitrobenzene-d5	0.244	0.255		4.5	50.0
2-Fluorobiphenyl	1.512	1.456		-3.7	50.0
2,4,6-Tribromophenol	0.284	0.253		-10.9	50.0
Terphenyl-d14	0.789	0.823		4.3	50.0
1,4-Dioxane	0.382	0.377		-1.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.293	152	1649	0.400	ng		-0.01
7) Naphthalene-d8	10.041	136	4653	0.400	ng		-0.01
13) Acenaphthene-d10	13.957	164	3559	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	8829	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	7037	0.400	ng		0.00
35) Perylene-d12	23.059	264	6876	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	1627	0.394	ng		-0.01
5) Phenol-d6	6.499	99	1989	0.401	ng		-0.01
8) Nitrobenzene-d5	8.429	82	1188m	0.418	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2835	0.389	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	899	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	5182	0.385	ng		-0.01
27) Fluoranthene-d10	18.775	212	8270	0.330	ng		0.00
31) Terphenyl-d14	19.402	244	5792	0.417	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	622	0.395	ng		97
3) n-Nitrosodimethylamine	3.292	42	529	0.403	ng	#	94
6) bis(2-Chloroethyl)ether	6.744	93	1499	0.359	ng		99
9) Naphthalene	10.095	128	4751	0.387	ng		99
10) Hexachlorobutadiene	10.383	225	1177	0.416	ng	#	99
12) 2-Methylnaphthalene	11.722	142	3358	0.382	ng		97
16) Acenaphthylene	13.668	152	5536	0.370	ng		99
17) Acenaphthene	14.021	154	3879	0.391	ng		98
18) Fluorene	15.026	166	5544	0.390	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	246	0.283	ng	#	71
21) 4-Bromophenyl-phenylether	15.929	248	1928	0.373	ng	#	86
22) Hexachlorobenzene	16.028	284	2468	0.407	ng		100
23) Atrazine	16.227	200	1287	0.350	ng		95
24) Pentachlorophenol	16.388	266	713	0.270	ng	#	84
25) Phenanthrene	16.760	178	9191	0.379	ng		100
26) Anthracene	16.860	178	7969	0.363	ng		100
28) Fluoranthene	18.808	202	10852	0.332	ng		99
30) Pyrene	19.170	202	11027	0.425	ng		100
32) Benzo(a)anthracene	20.947	228	8623	0.350	ng		99
33) Chrysene	21.001	228	10141	0.400	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3712	0.382	ng		99
36) Indeno(1,2,3-cd)pyrene	25.096	276	9828	0.366	ng		97
37) Benzo(b)fluoranthene	22.445	252	12398	0.493	ng		98
38) Benzo(k)fluoranthene	22.488	252	10500	0.424	ng		96
39) Benzo(a)pyrene	22.968	252	7505	0.362	ng		96
40) Dibenzo(a,h)anthracene	25.117	278	7400	0.349	ng		96
41) Benzo(g,h,i)perylene	25.707	276	8233	0.371	ng		99

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

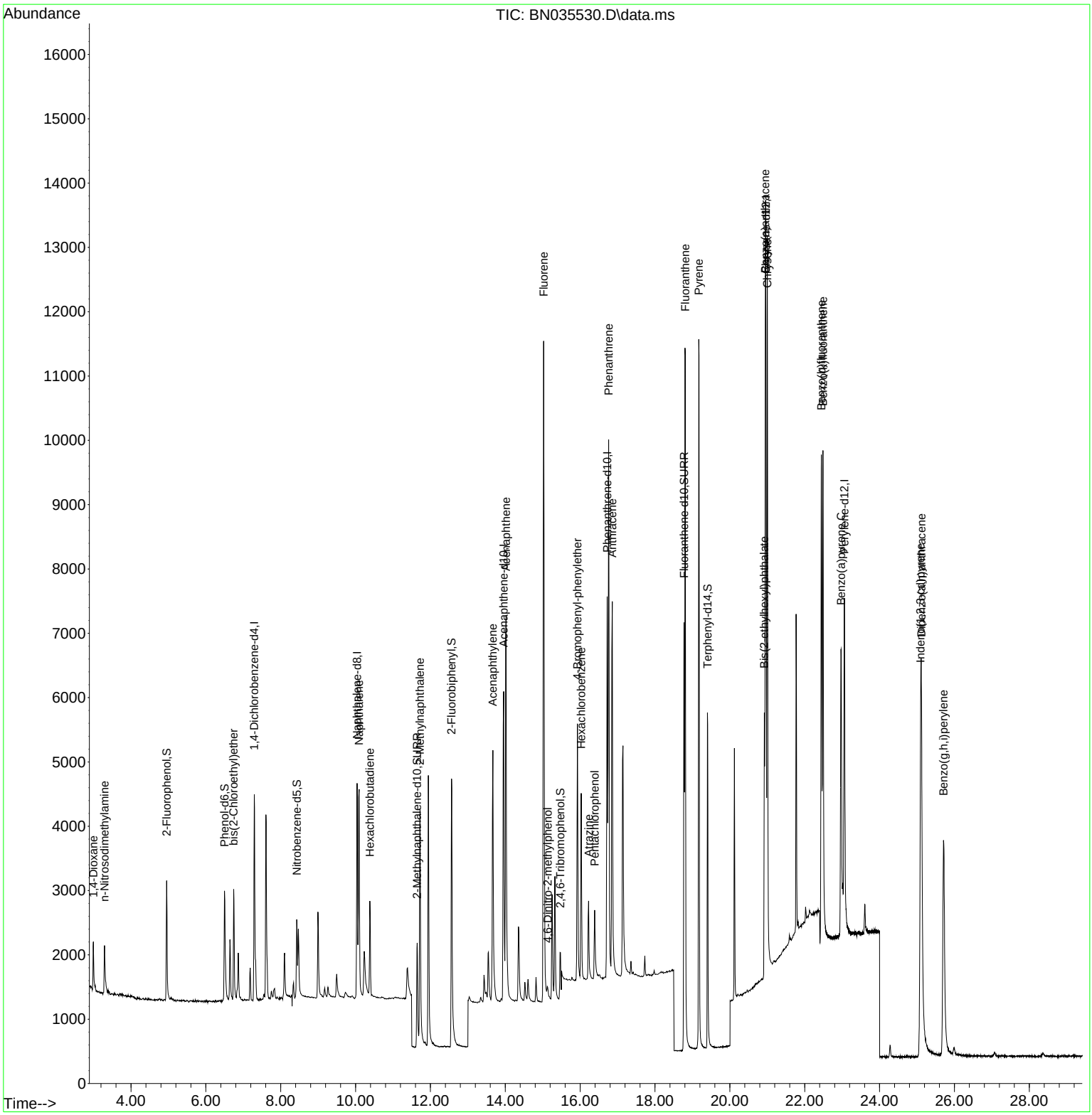
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

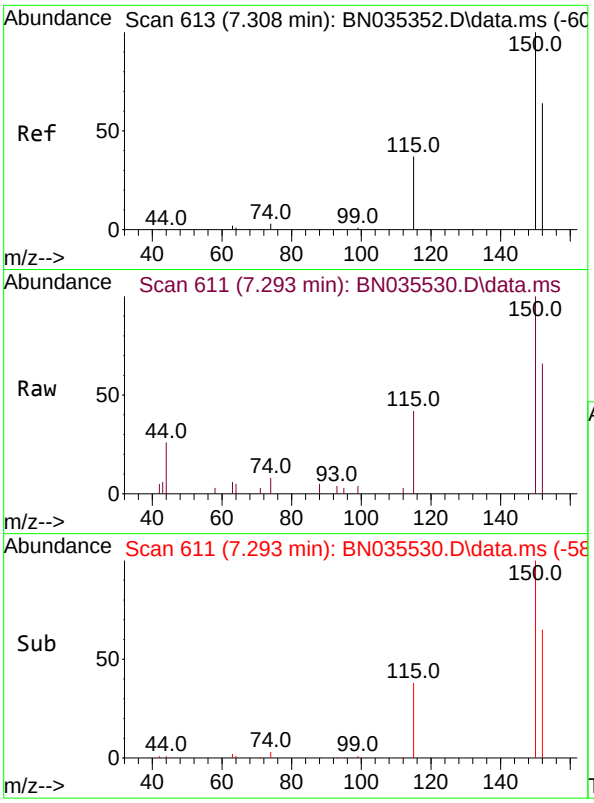
Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

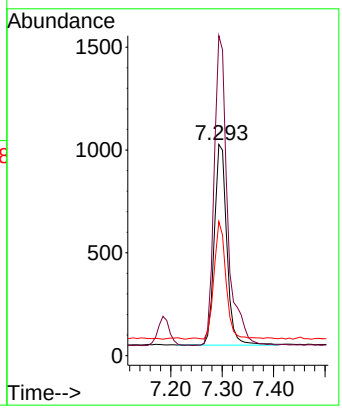




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:152 Resp: 164

Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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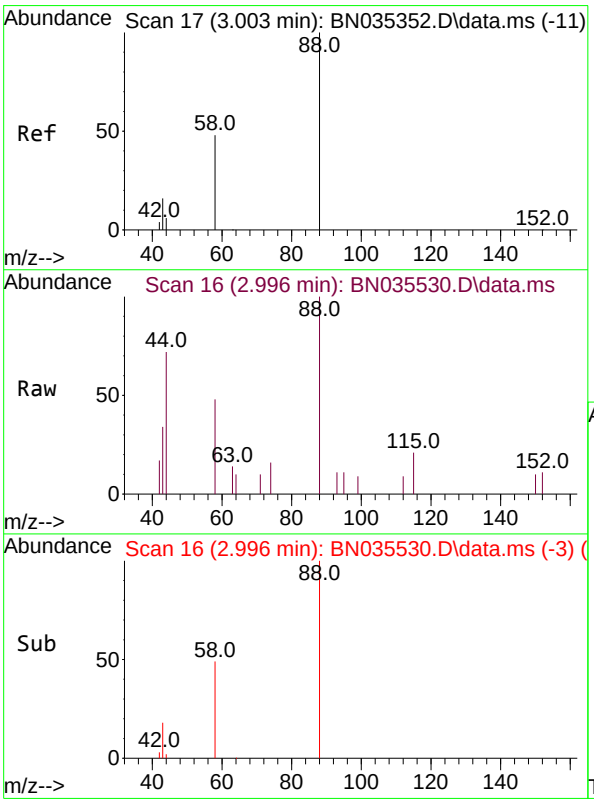
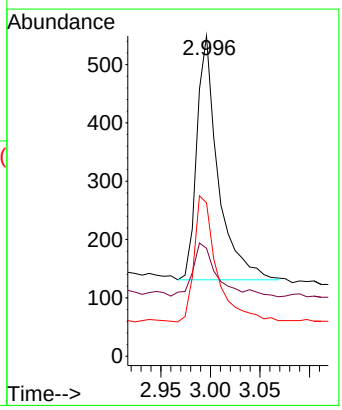
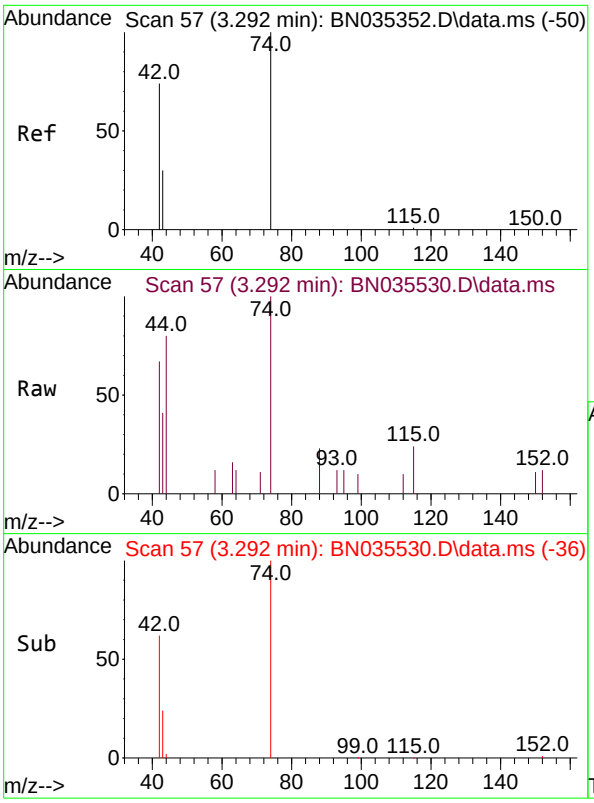


#2
1,4-Dioxane
Concen: 0.395 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 88 Resp: 622

Ion	Ratio	Lower	Upper
88	100		
43	25.7	17.2	25.8
58	55.3	44.5	66.7

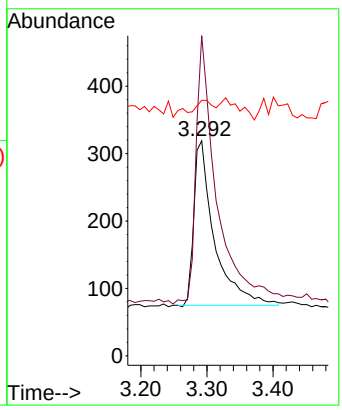




#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 42 Resp: 52

Ion	Ratio	Lower	Upper
42	100		
74	163.7	124.9	187.3
44	5.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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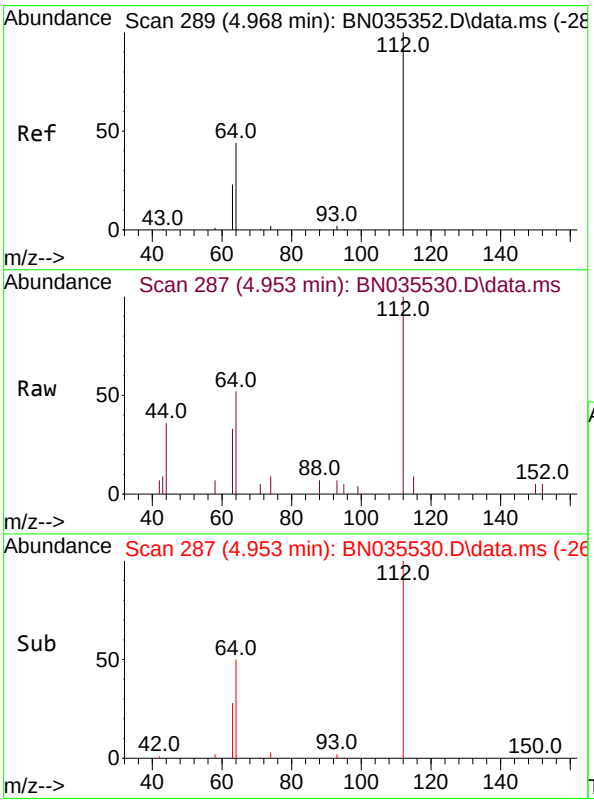
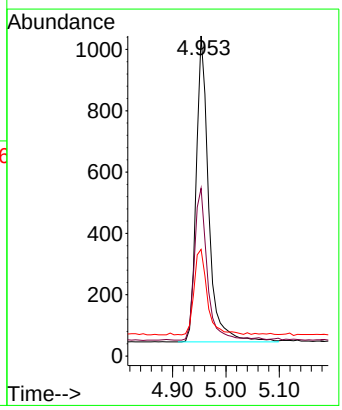
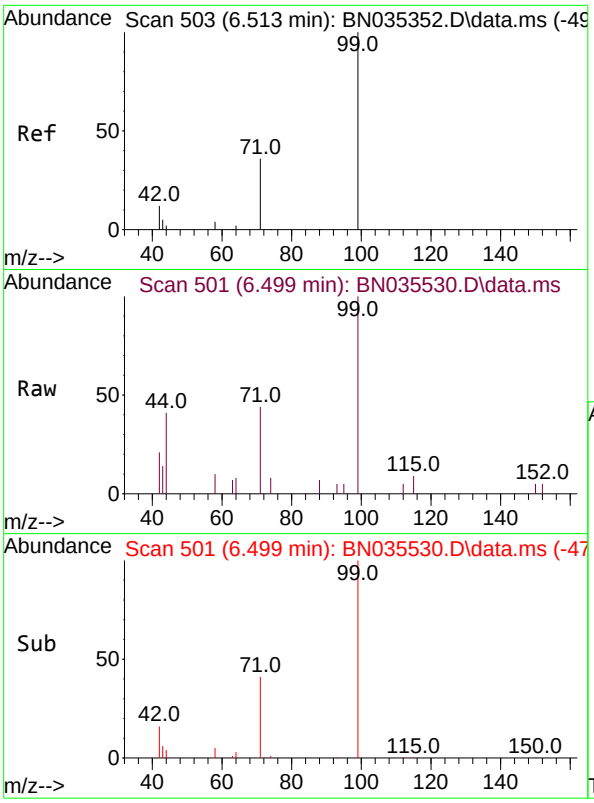


#4
2-Fluorophenol
Concen: 0.394 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:112 Resp: 1627

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	29.6	21.0	31.6

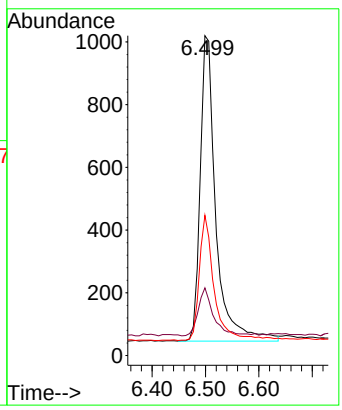




#5
Phenol-d6
Concen: 0.401 ng
RT: 6.499 min Scan# 5(
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 99 Resp: 198

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	39.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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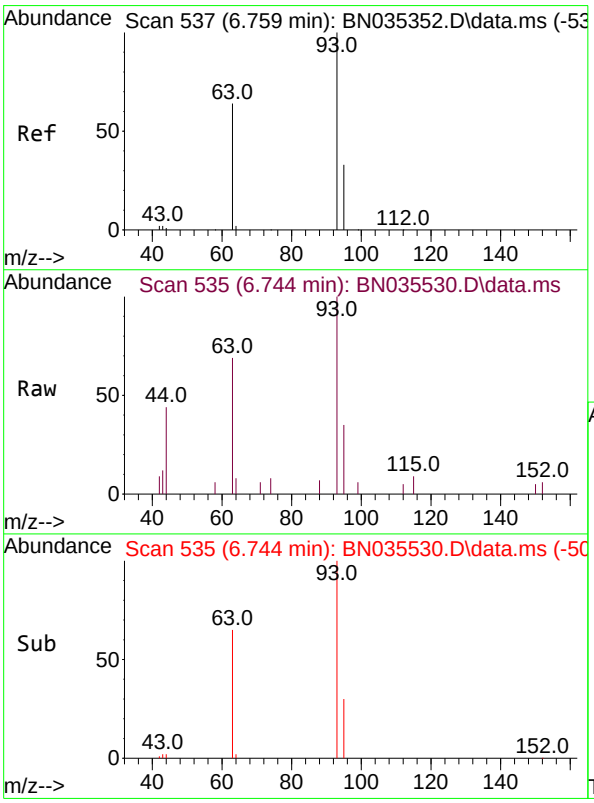
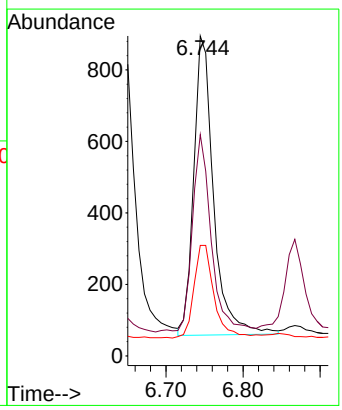
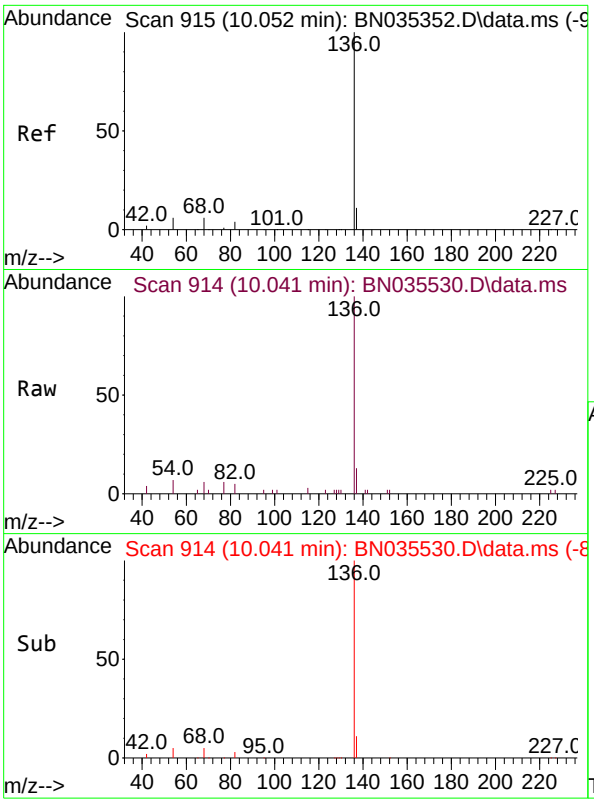


#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 93 Resp: 1499

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	31.0	25.7	38.5

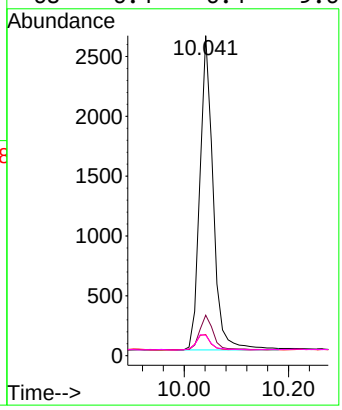




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:136 Resp: 465

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.6	6.1	9.1
68	6.4	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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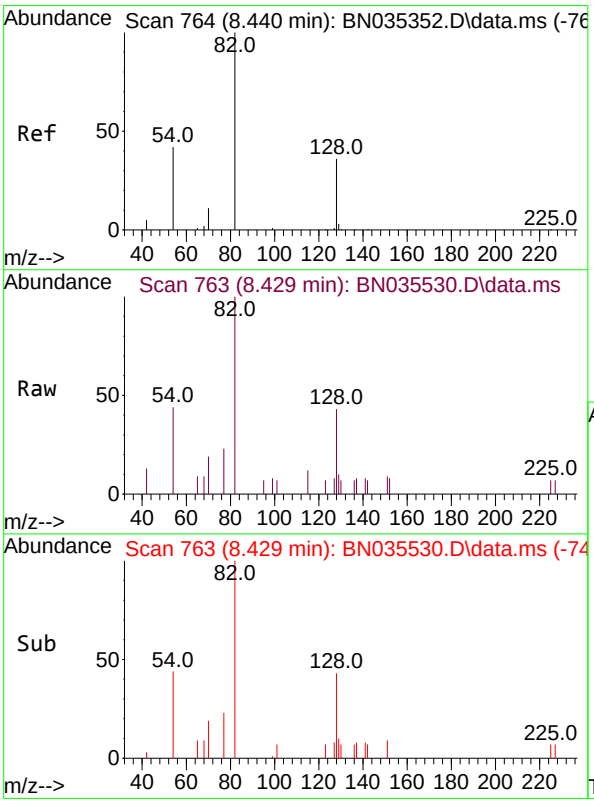
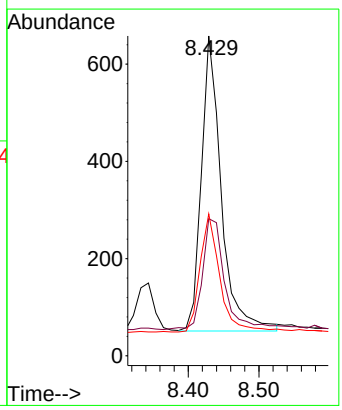
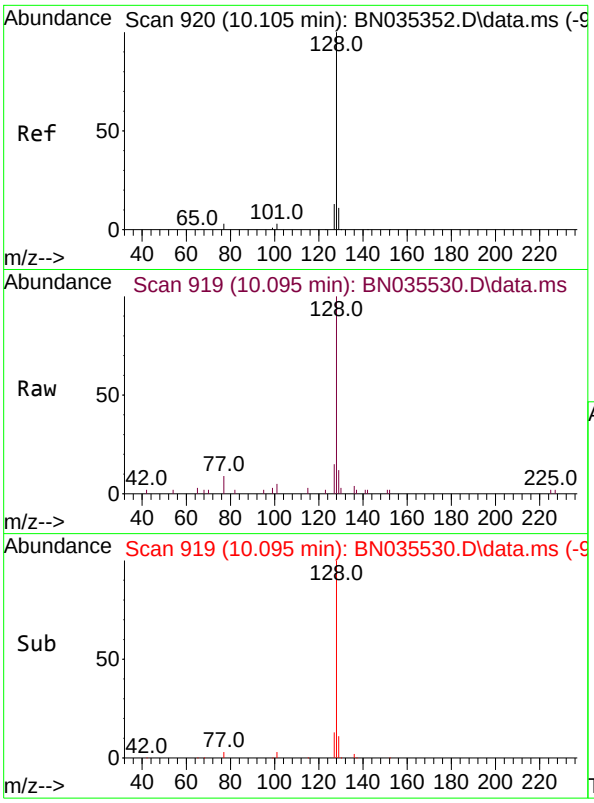


#8
Nitrobenzene-d5
Concen: 0.418 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 82 Resp: 1188

Ion	Ratio	Lower	Upper
82	100		
128	42.9	33.4	50.0
54	44.4	36.7	55.1

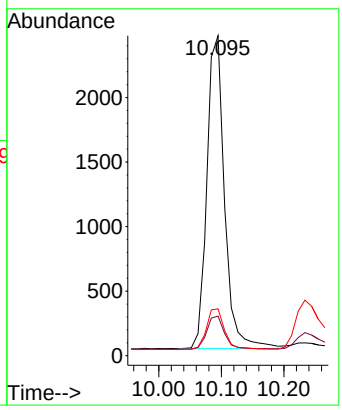




#9
Naphthalene
Concen: 0.387 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:128 Resp: 475

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.6	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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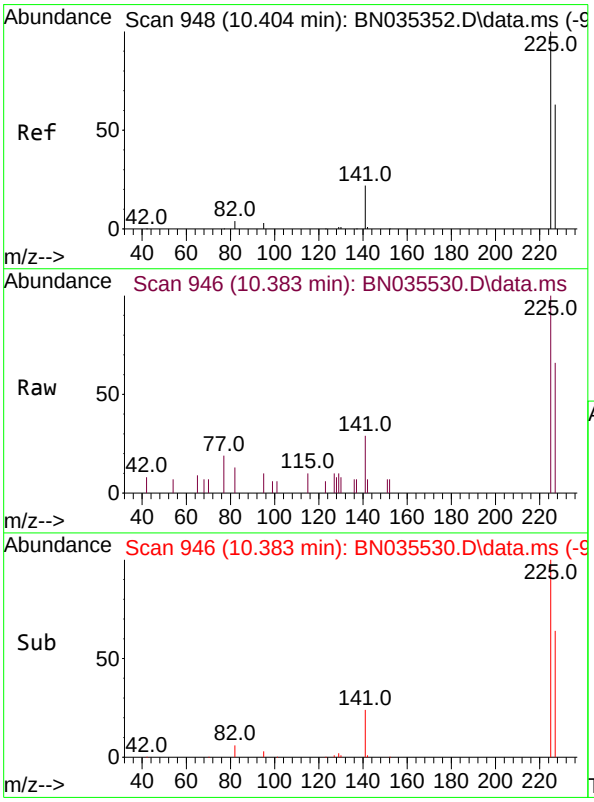
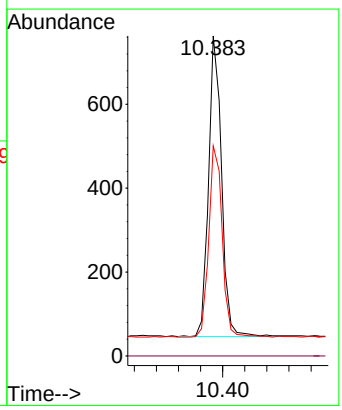
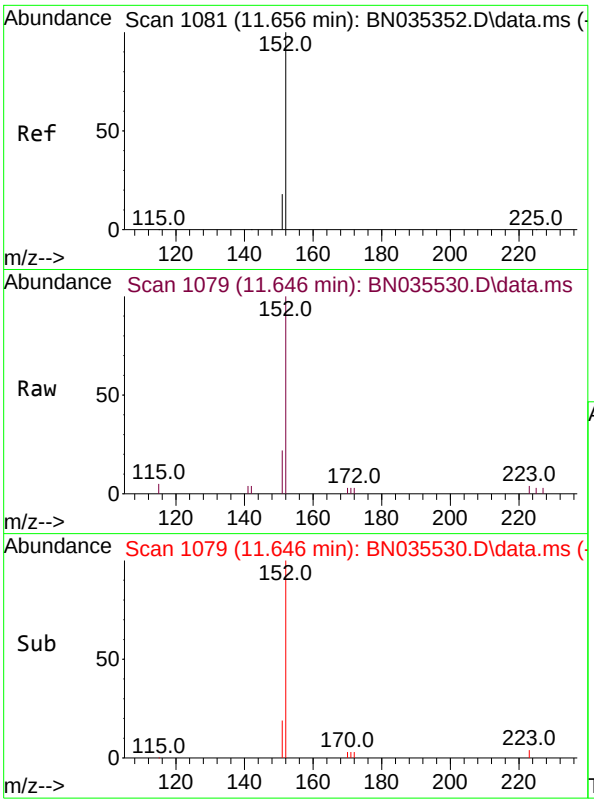


#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:225 Resp: 1177

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:152 Resp: 283

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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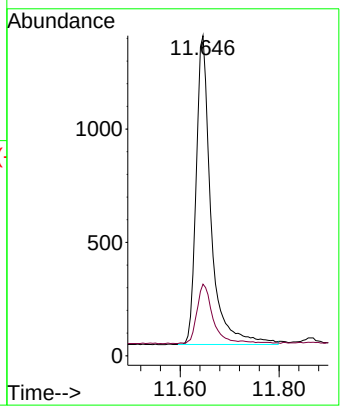
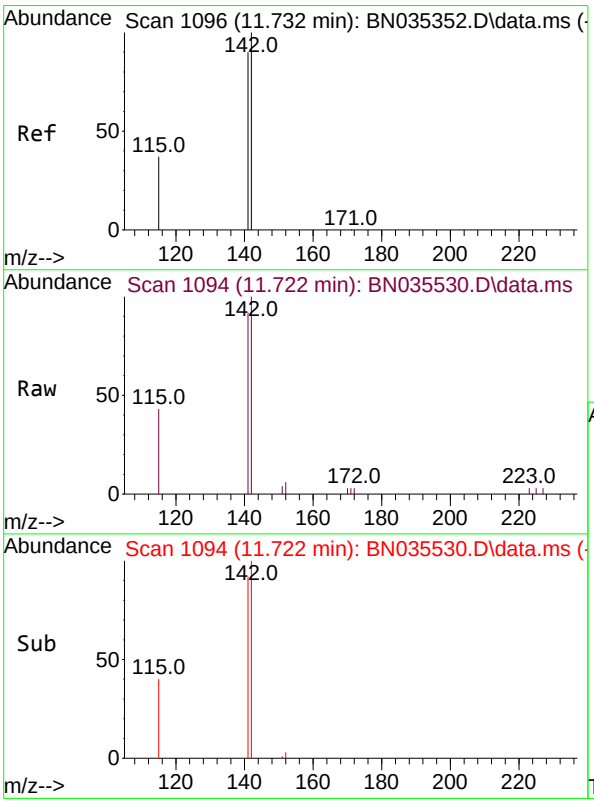
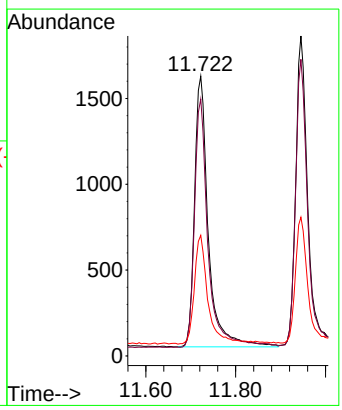


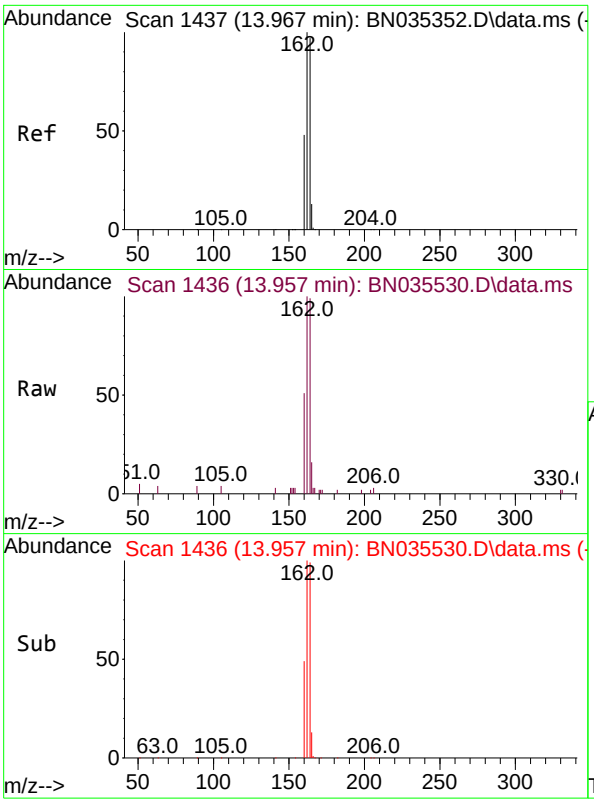


#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:142 Resp: 3358

Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.2	108.4
115	43.1	31.4	47.0

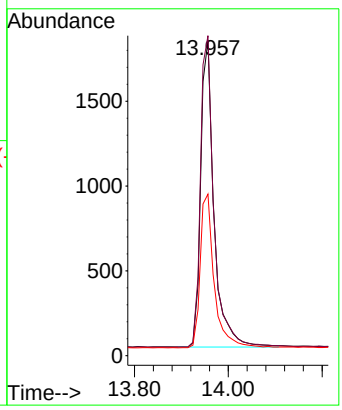




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:164 Resp: 355

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	51.2	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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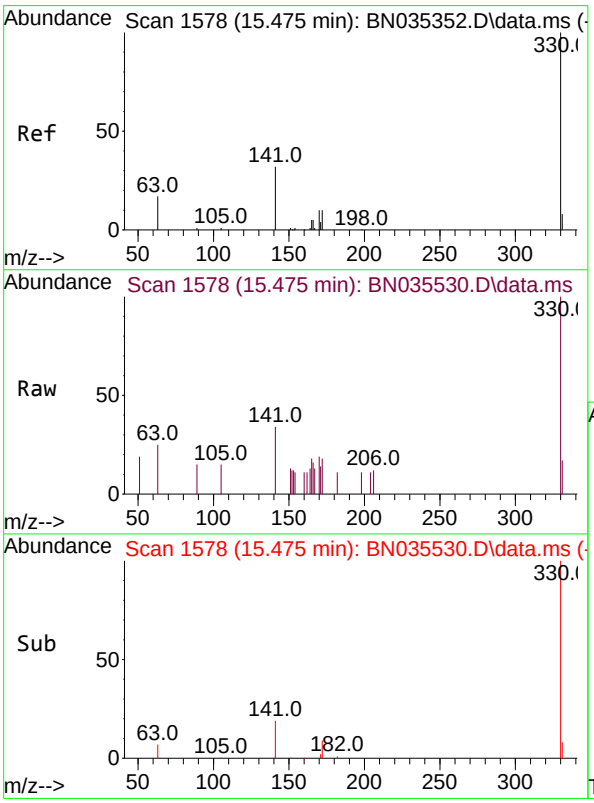
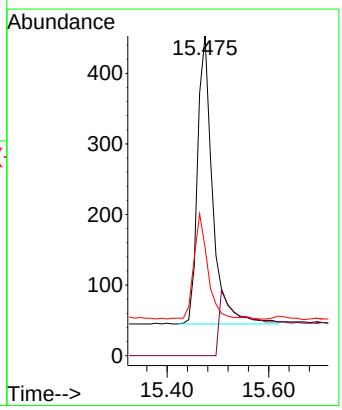
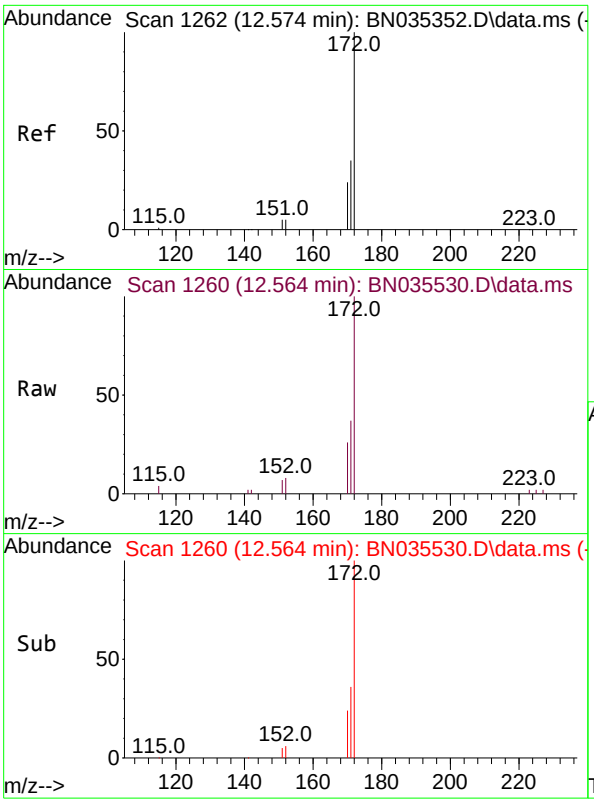


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:330 Resp: 899

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0

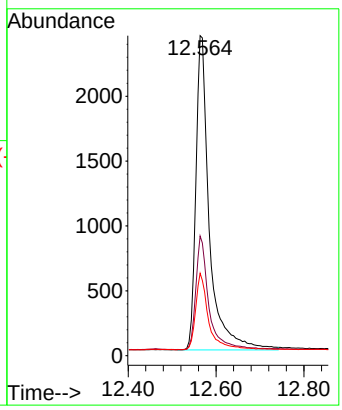




#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:172 Resp: 518

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.0	43.4
170	25.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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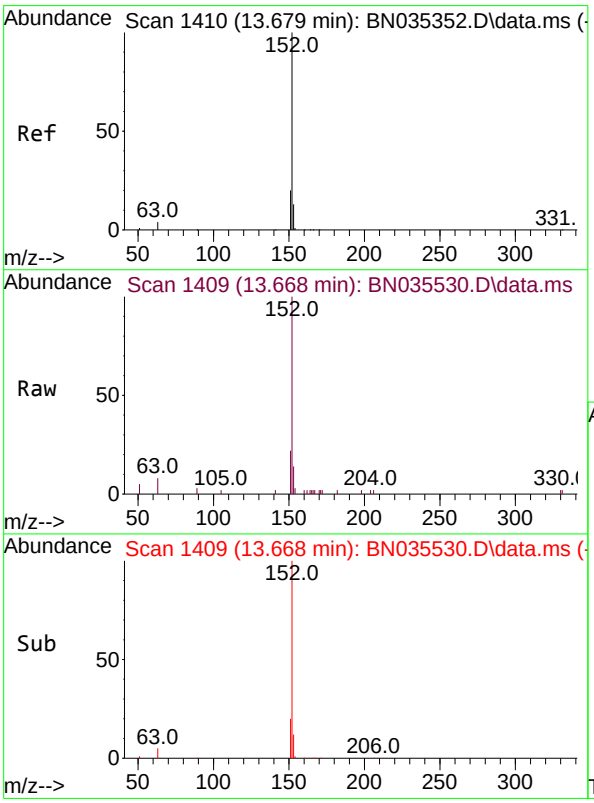
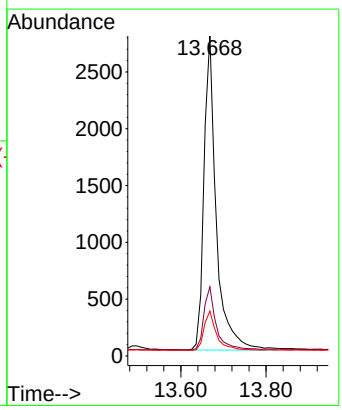
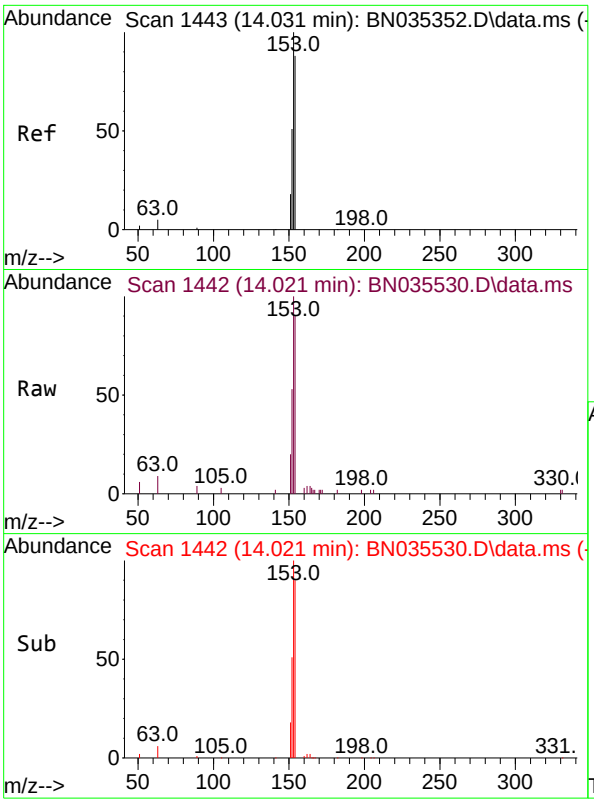


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:152 Resp: 5536

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	12.7	10.4	15.6

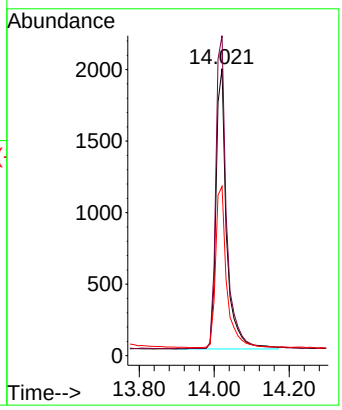




#17
Acenaphthene
Concen: 0.391 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:154 Resp: 387

Ion	Ratio	Lower	Upper
154	100		
153	113.4	92.6	139.0
152	59.7	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
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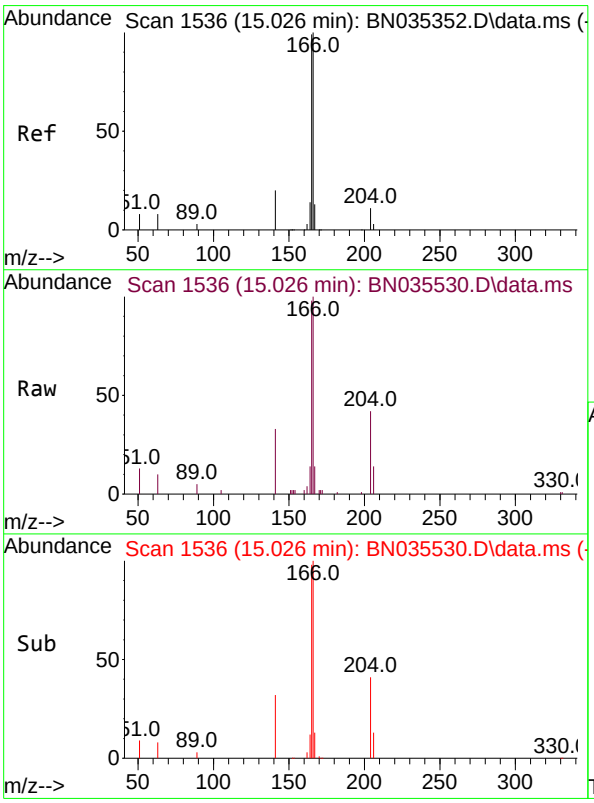
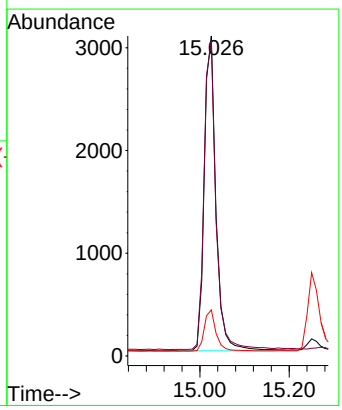
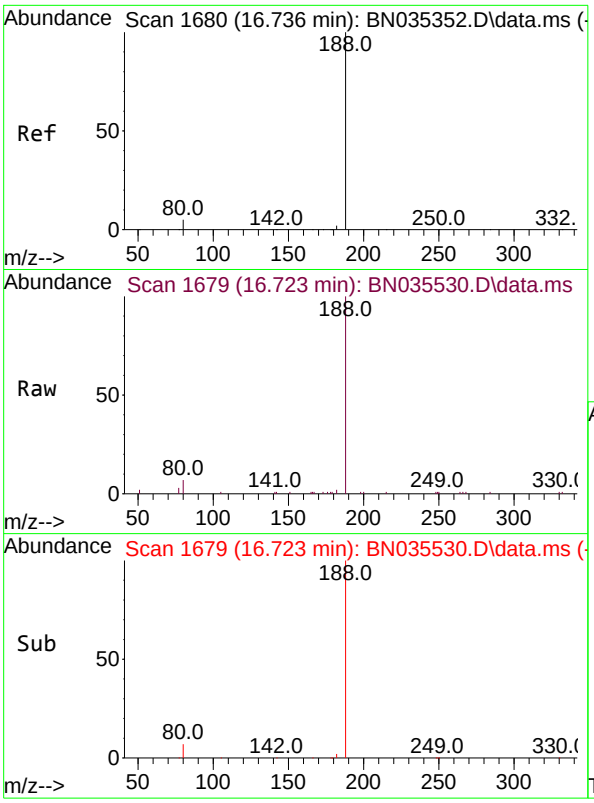


#18
Fluorene
Concen: 0.390 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:166 Resp: 5544

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.2	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:188 Resp: 882

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	4.6	6.8#

Instrument :
BNA_N
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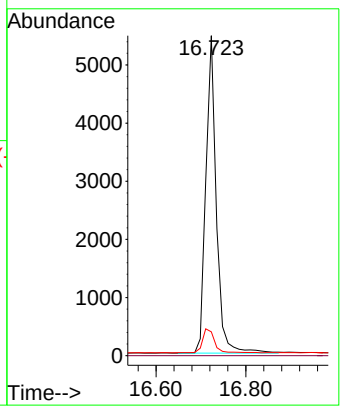
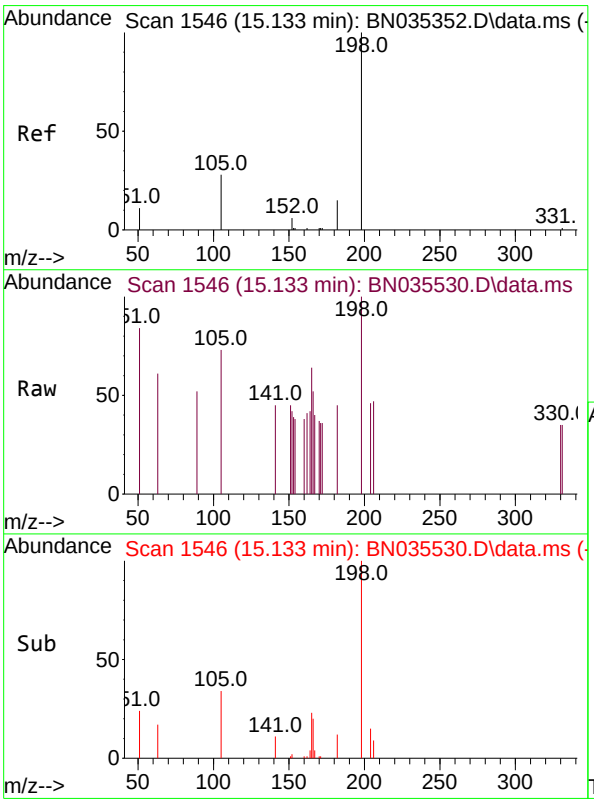
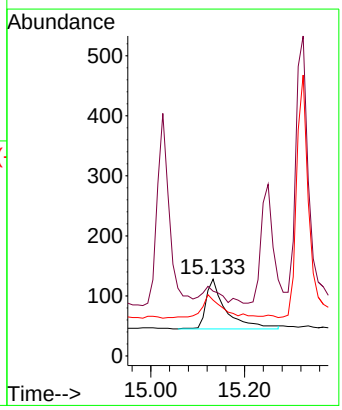


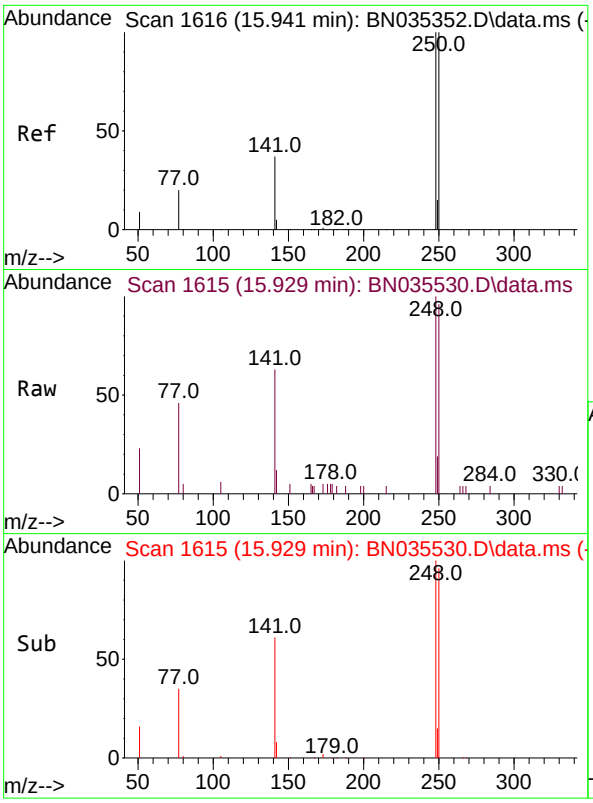


#20
4,6-Dinitro-2-methylphenol
Concen: 0.283 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:198 Resp: 246

Ion	Ratio	Lower	Upper
198	100		
51	84.4	46.5	69.7#
105	72.7	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.929 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:248 Resp: 192

Ion	Ratio	Lower	Upper
248	100		
250	96.2	80.6	120.8
141	62.9	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
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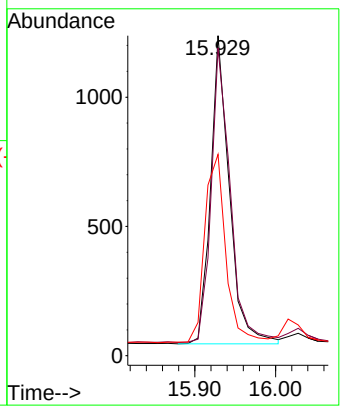
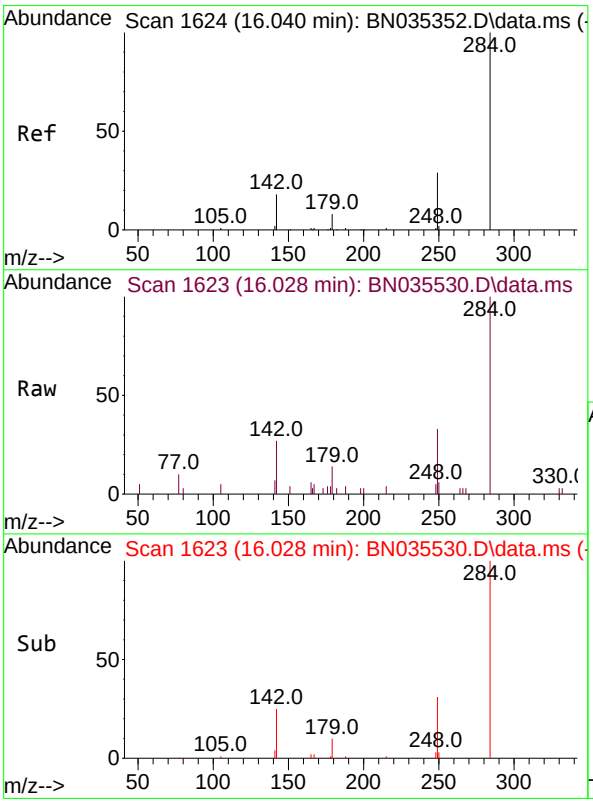
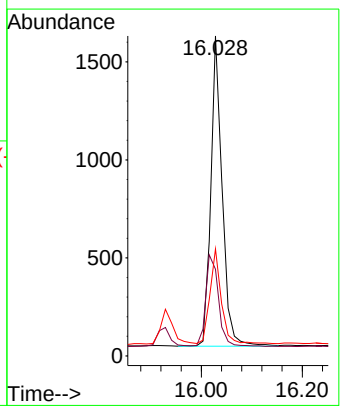


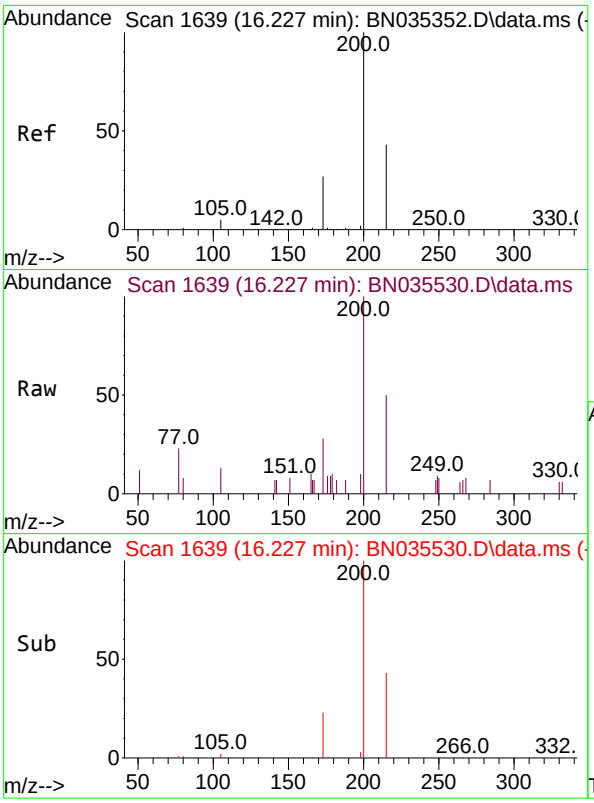


#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:284 Resp: 2468

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.8	24.6	36.8

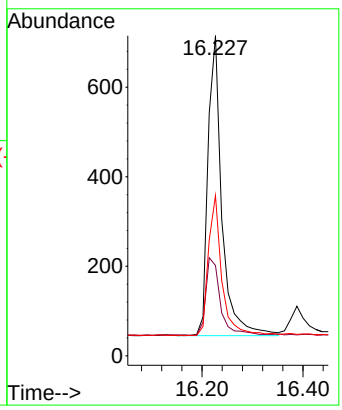




#23
Atrazine
Concen: 0.350 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:200 Resp: 128

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	50.1	36.9	55.3



Instrument :
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ClientSampleId :
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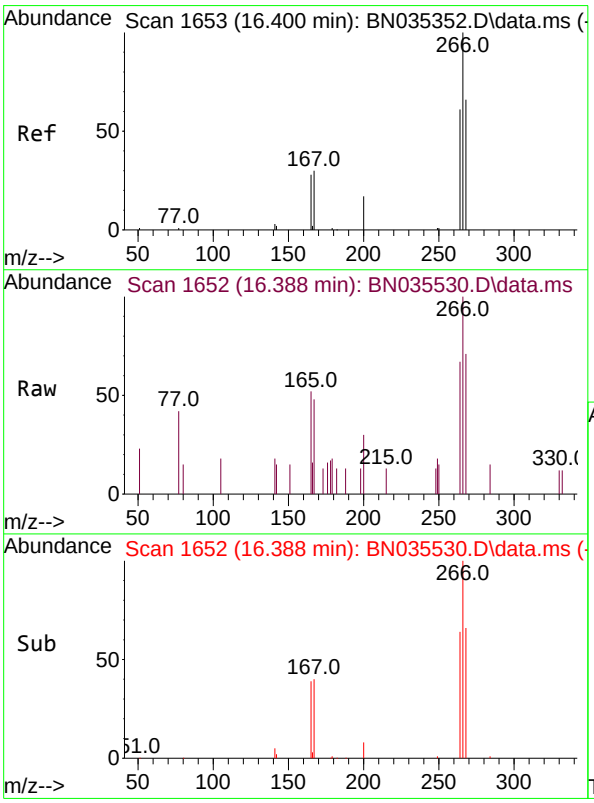
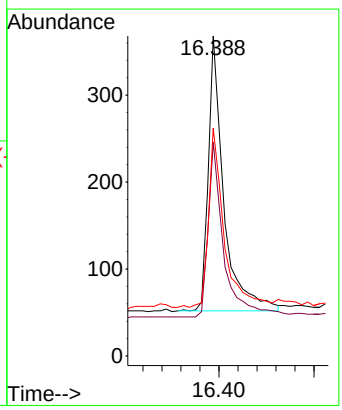
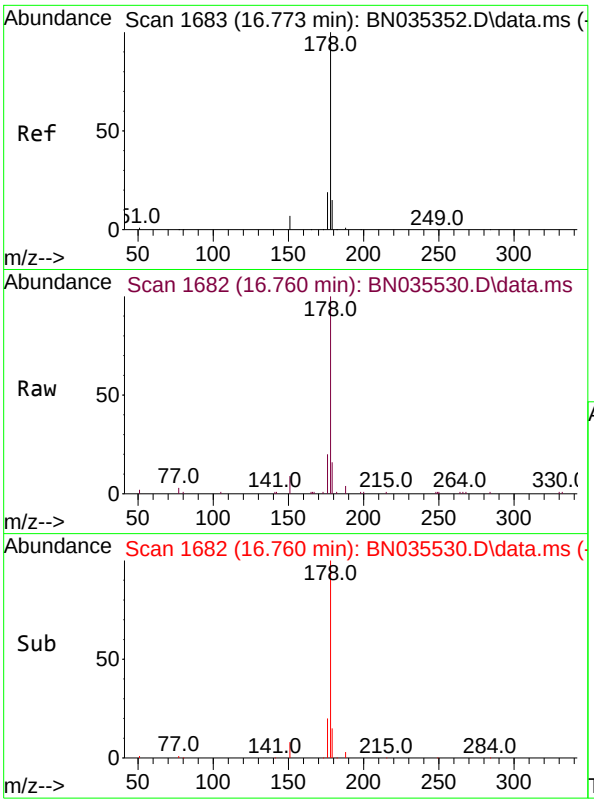


#24
Pentachlorophenol
Concen: 0.270 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:266 Resp: 713

Ion	Ratio	Lower	Upper
266	100		
264	64.1	42.3	63.5#
268	65.5	43.3	64.9#

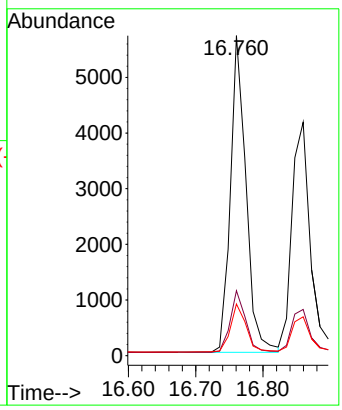




#25
Phenanthrene
Concen: 0.379 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:178 Resp: 919

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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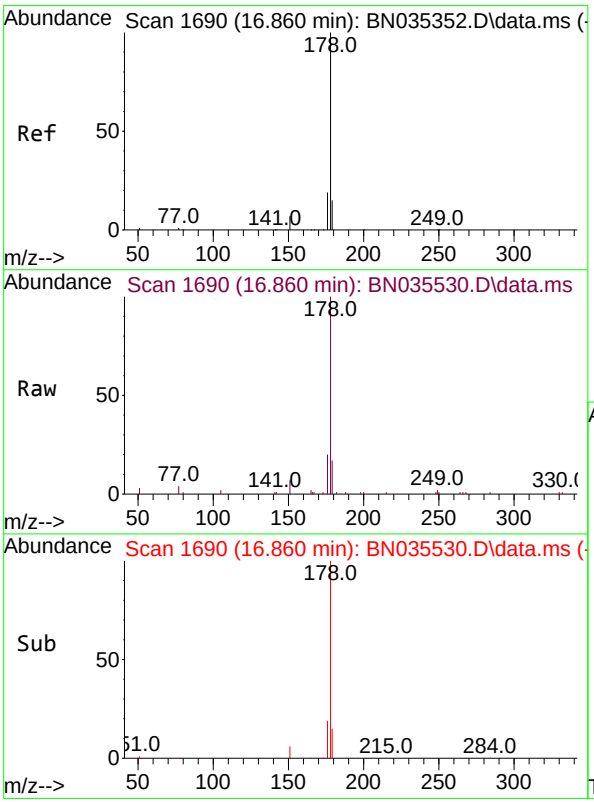
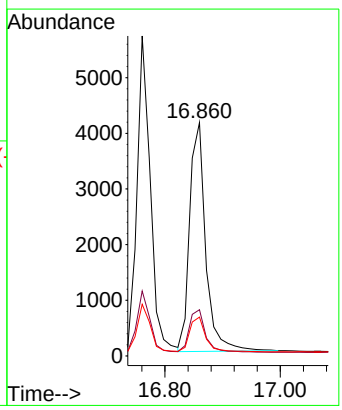
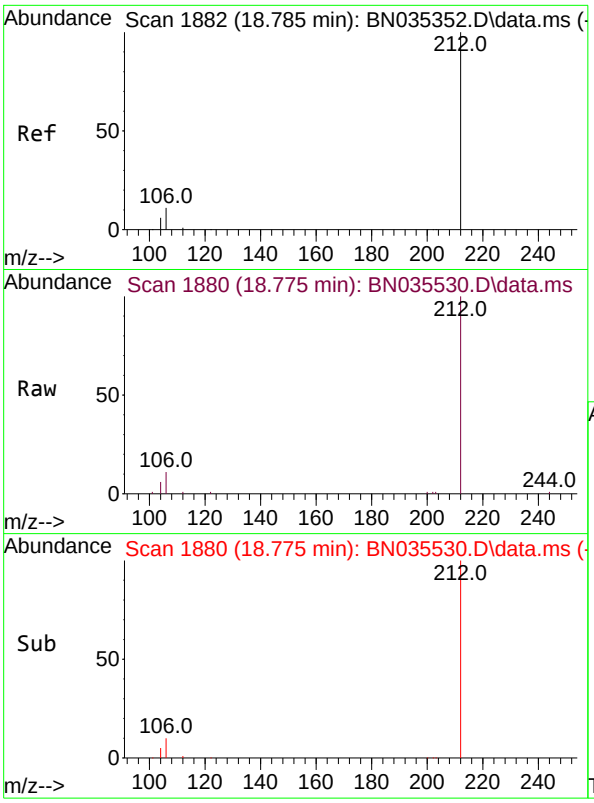


#26
Anthracene
Concen: 0.363 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:178 Resp: 7969

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8

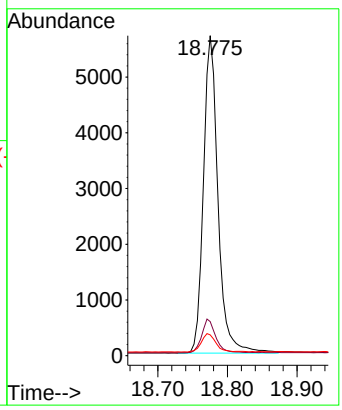




#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:212 Resp: 827

Ion	Ratio	Lower	Upper
212	100		
106	10.2	9.2	13.8
104	5.7	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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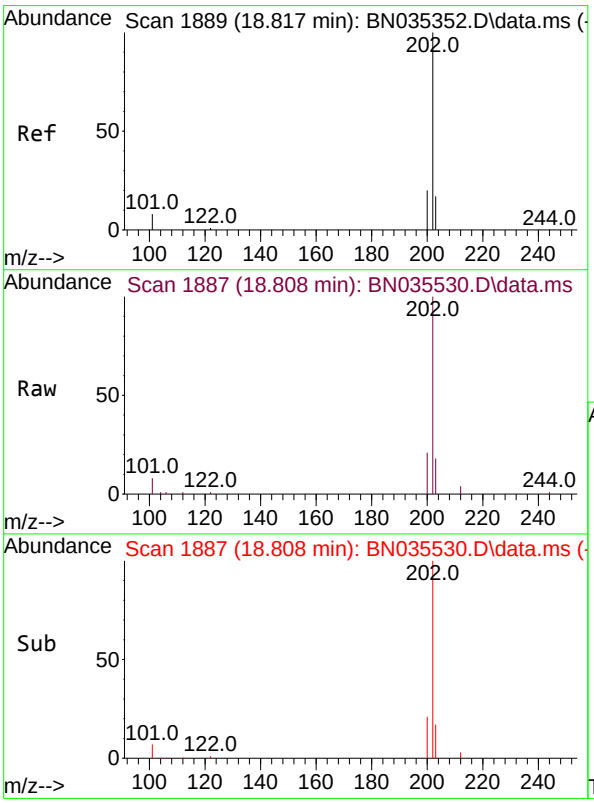
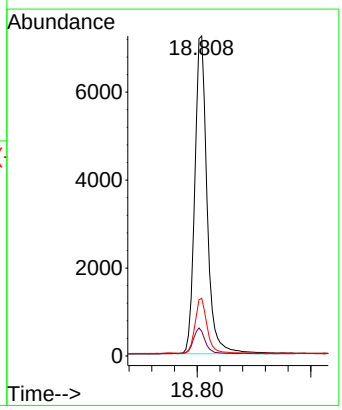
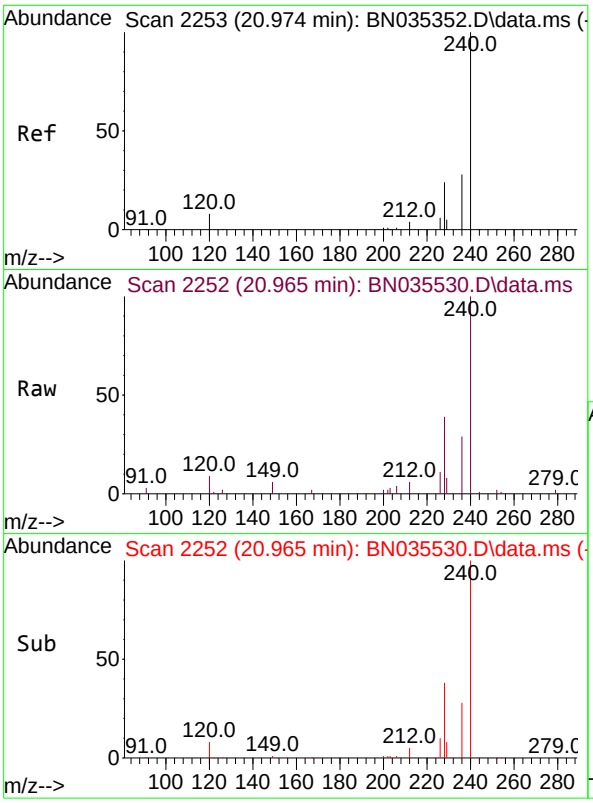


#28
Fluoranthene
Concen: 0.332 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:202 Resp: 10852

Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.4	11.0
203	16.9	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:240 Resp: 703

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	28.7	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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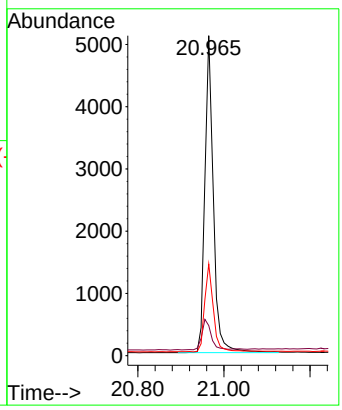
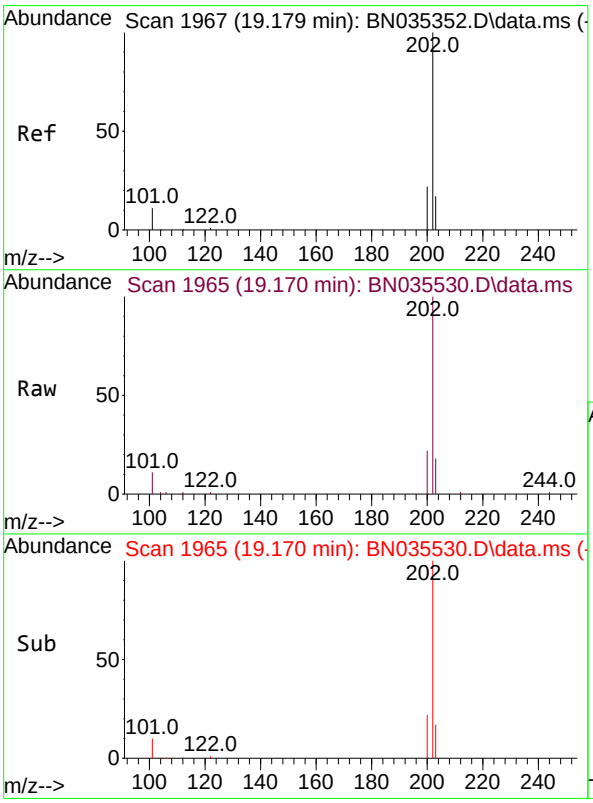
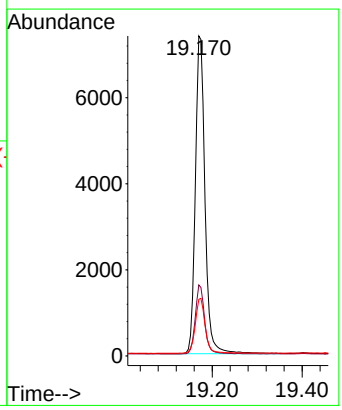


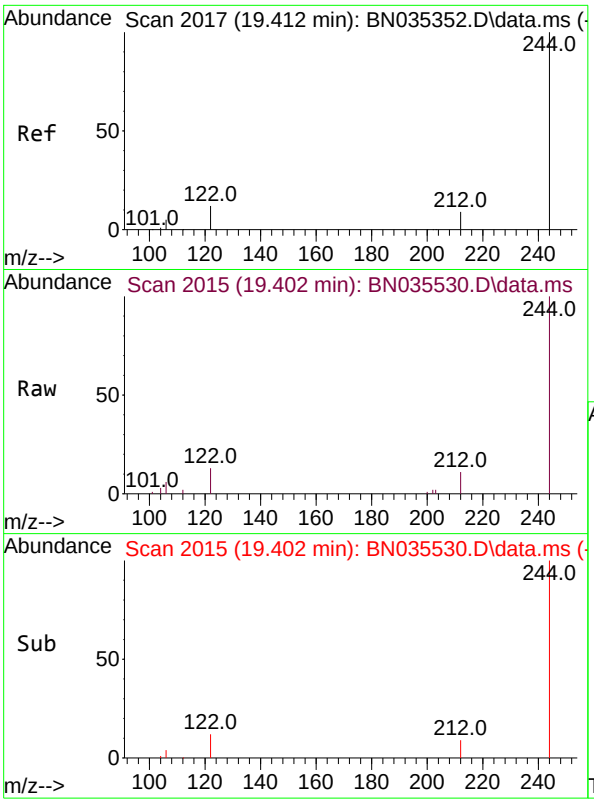


#30
Pyrene
Concen: 0.425 ng
RT: 19.170 min Scan# 1965
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:202 Resp: 11027

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5

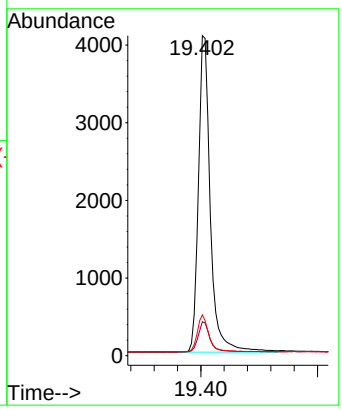




#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:244 Resp: 579

Ion	Ratio	Lower	Upper
244	100		
212	10.6	8.1	12.1
122	12.8	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
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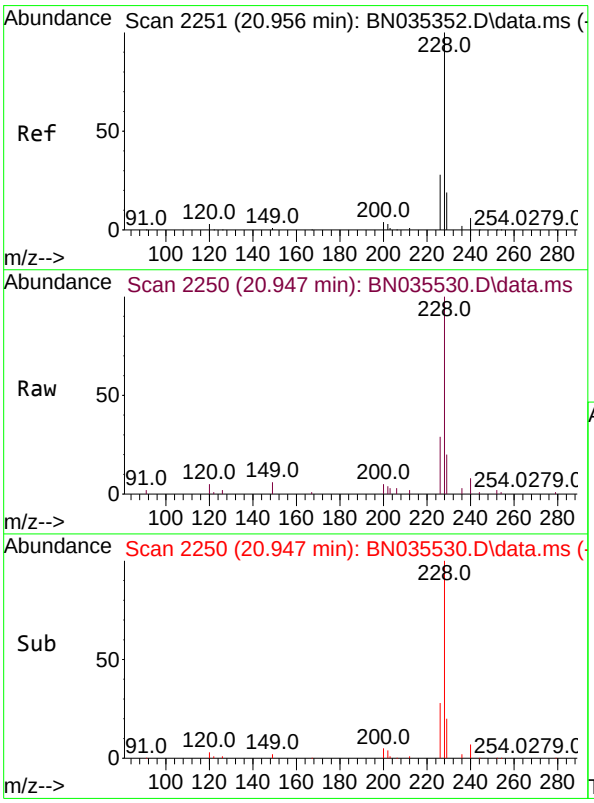
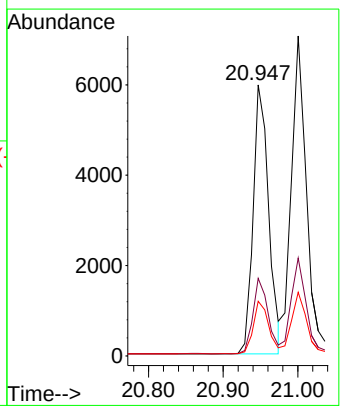
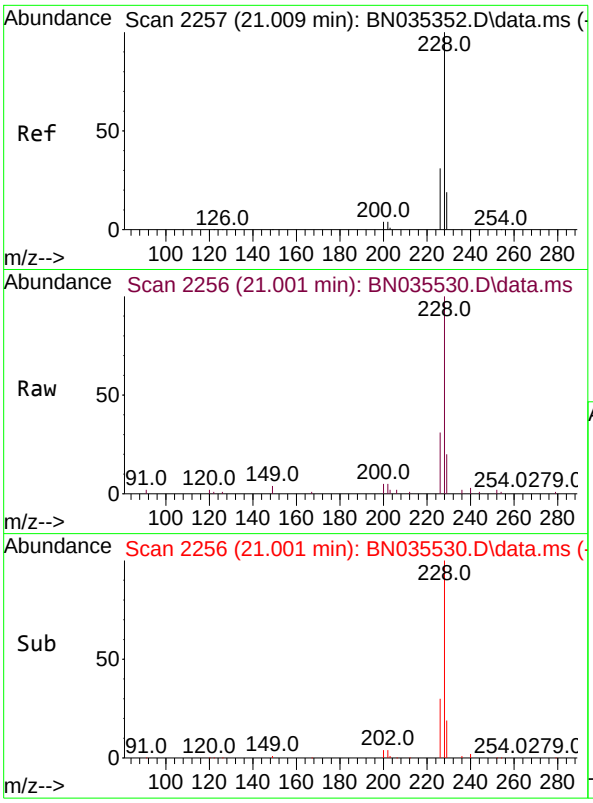


#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:228 Resp: 8623

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	20.2	15.8	23.8

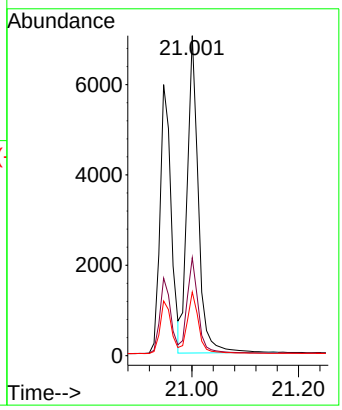




#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:228 Resp: 1014

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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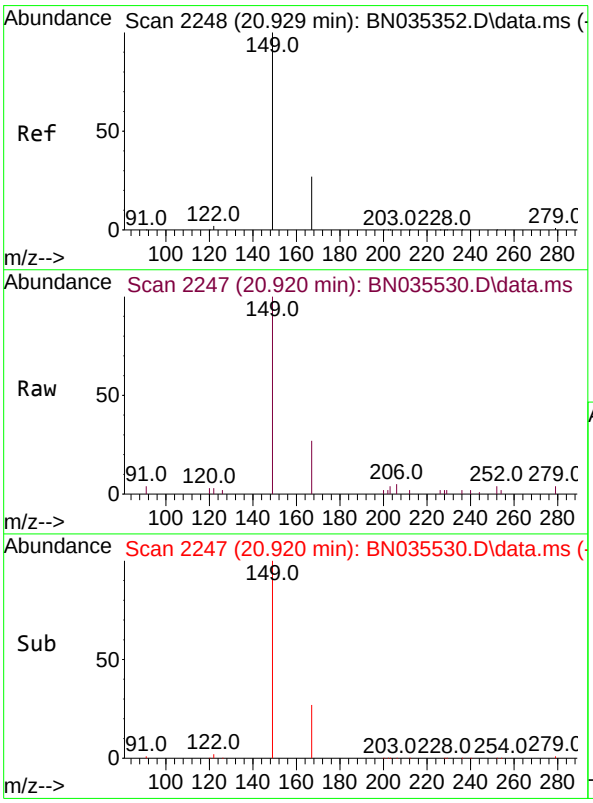
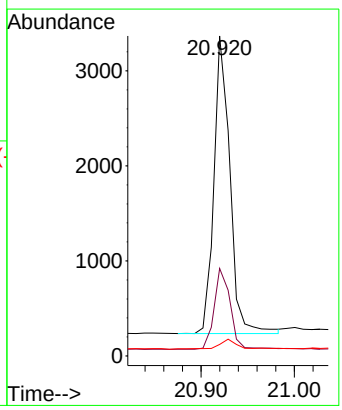
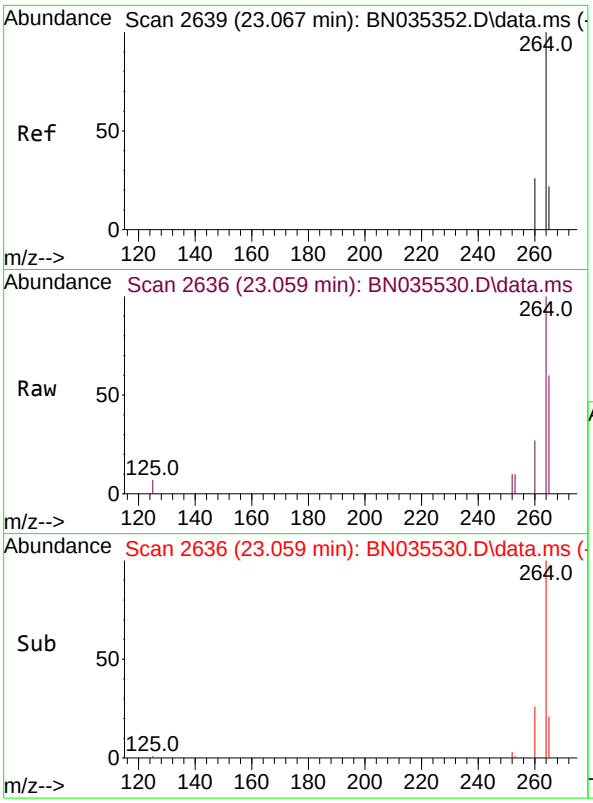


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.382 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:149 Resp: 3712

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.8	2.7	4.1

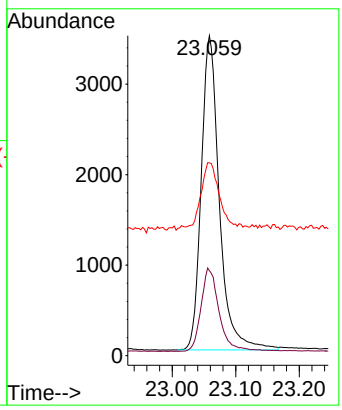




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:264 Resp: 687

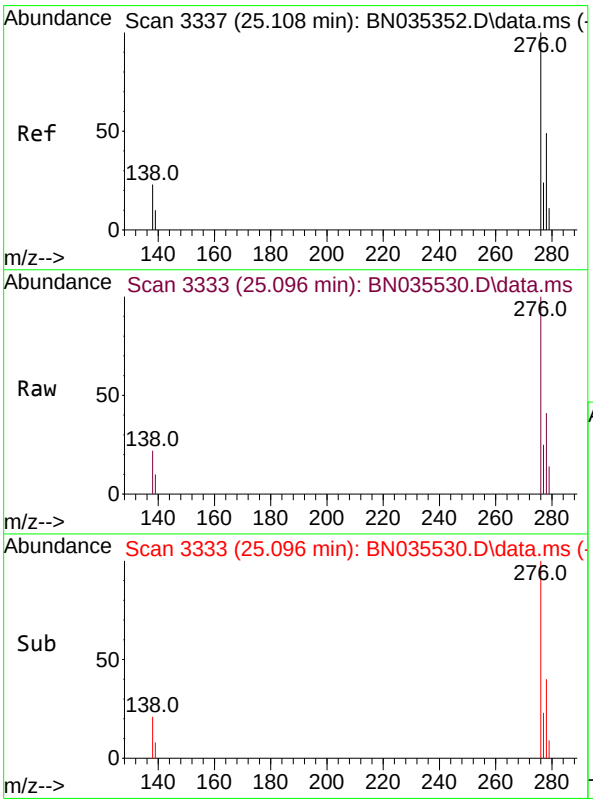
Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	60.3	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

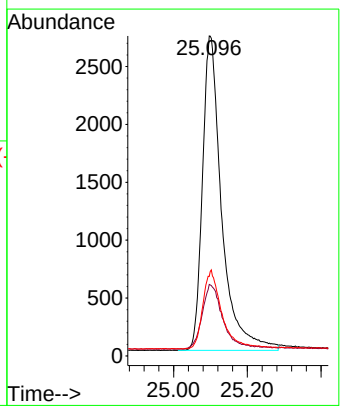
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

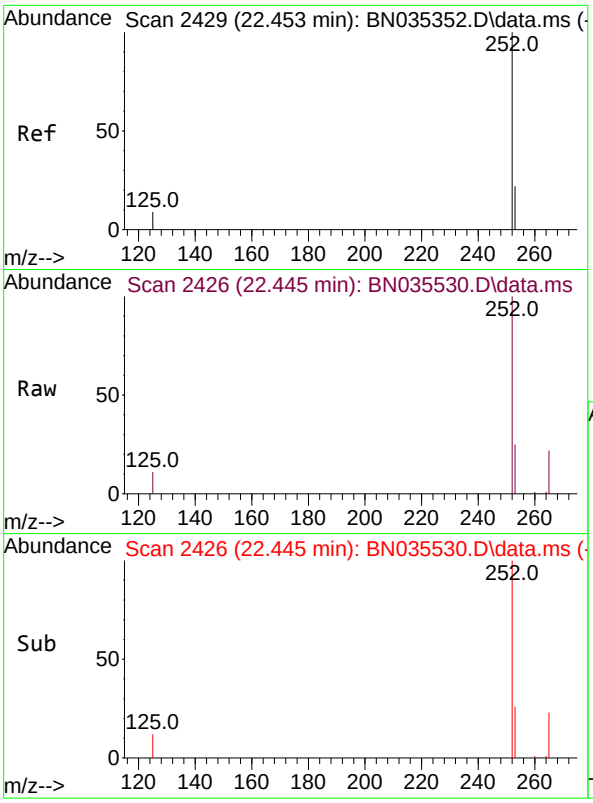


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:276 Resp: 9828

Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.4	29.0
277	24.4	19.8	29.6

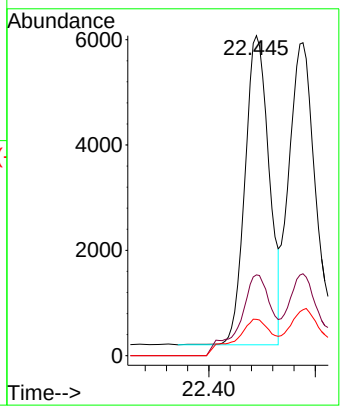




#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.445 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:252 Resp: 1239

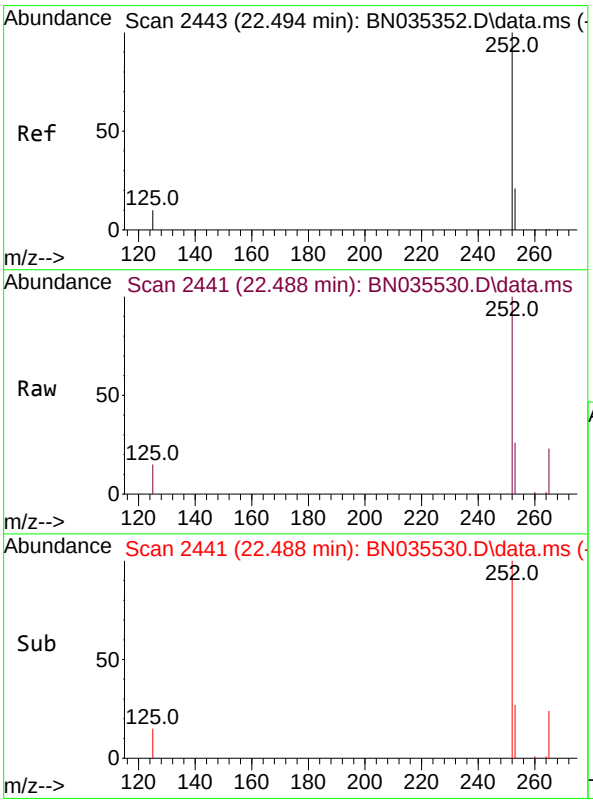
Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.6	29.4
125	11.4	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

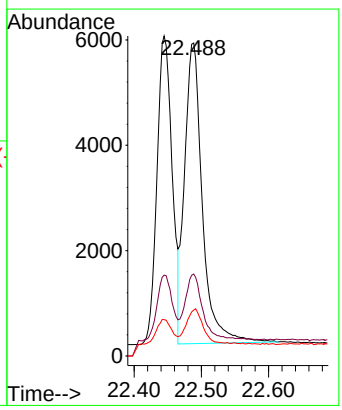
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

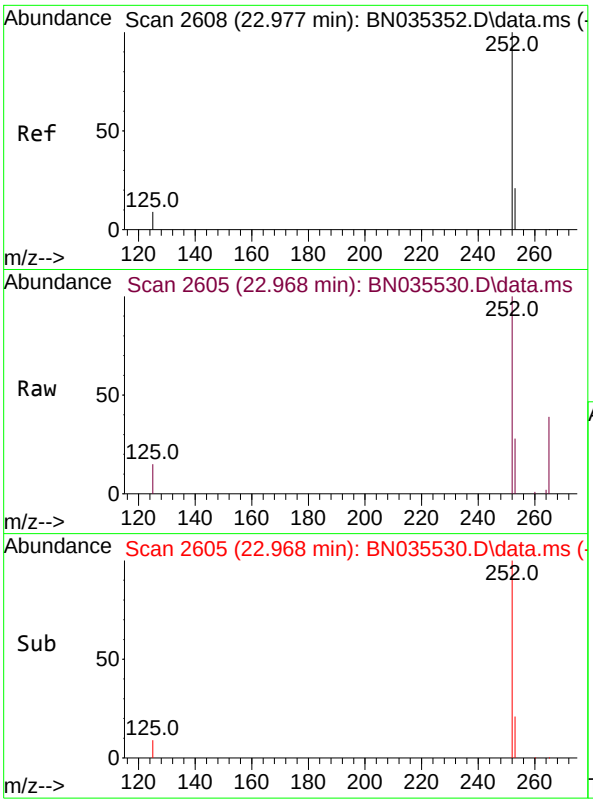


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:252 Resp: 10500

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	14.7	10.2	15.4





#39
Benzo(a)pyrene
Concen: 0.362 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

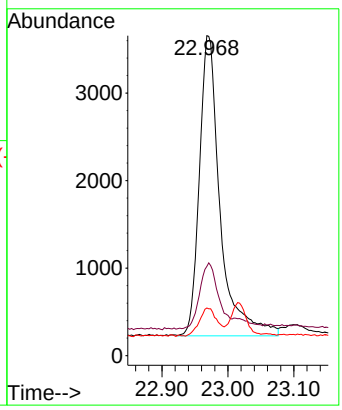
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

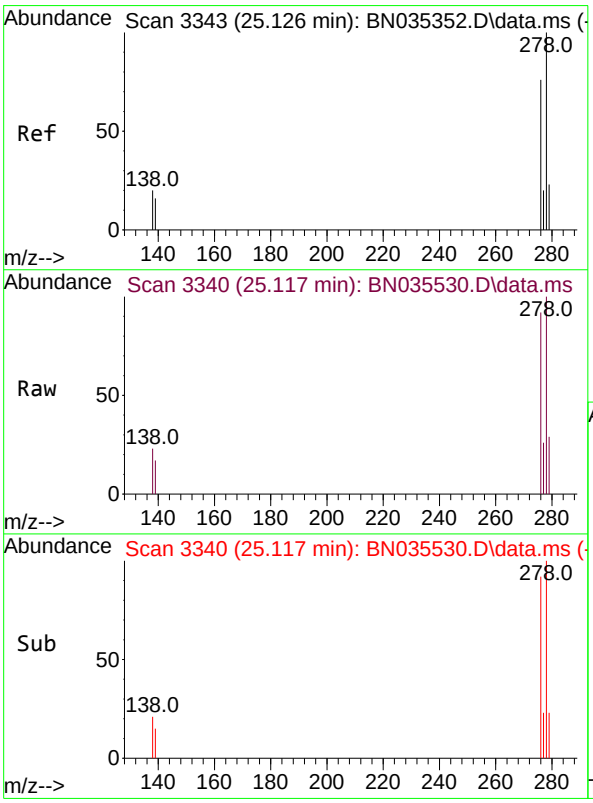
Tgt Ion:252 Resp: 750

Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	14.9	10.9	16.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

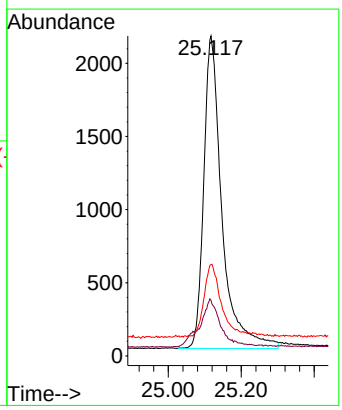


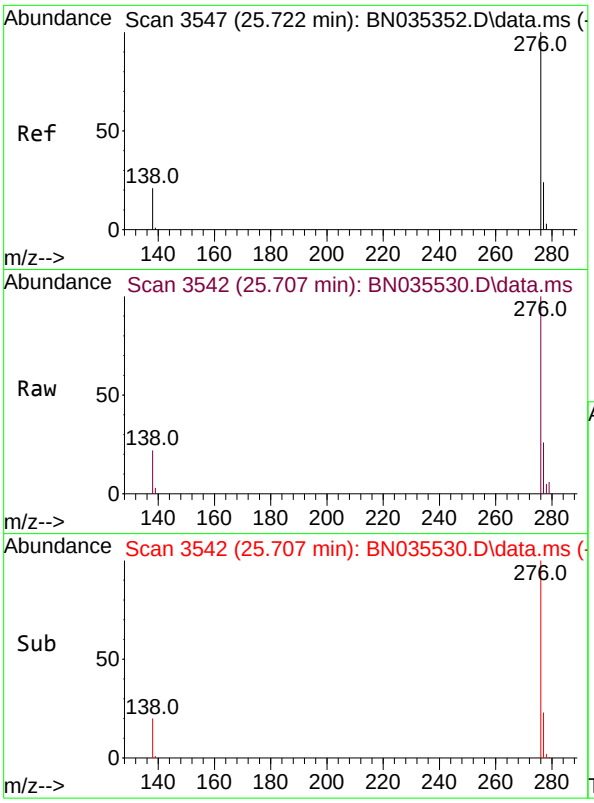


#40
Dibenzo(a,h)anthracene
Concen: 0.349 ng
RT: 25.117 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:278 Resp: 7400

Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.2	21.4
279	28.5	20.5	30.7

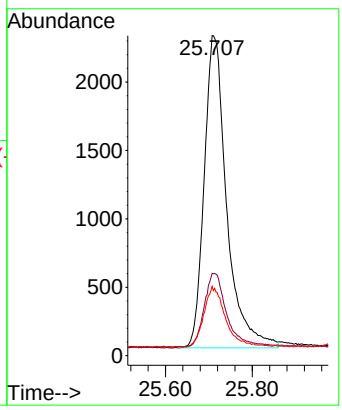




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.707 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:276 Resp: 823

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Sample Results: **BN035530.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	-0.01
2		1,4-Dioxane	0.382	0.377	1.3	81	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	79	0.00
4	S	2-Fluorophenol	1.001	0.987	1.4	78	-0.01
5	S	Phenol-d6	1.204	1.206	-0.2	81	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.909	10.2	74	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.244	0.255	-4.5	97	-0.01
9		Naphthalene	1.055	1.021	3.2	87	-0.01
10		Hexachlorobutadiene	0.243	0.253	-4.1	91	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.609	2.7	88	-0.01
12		2-Methylnaphthalene	0.755	0.722	4.4	87	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	94	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.253	10.9	92	0.00
15	S	2-Fluorobiphenyl	1.512	1.456	3.7	90	-0.01
16		Acenaphthylene	1.680	1.555	7.4	91	-0.01
17		Acenaphthene	1.115	1.090	2.2	94	-0.01
18		Fluorene	1.596	1.558	2.4	95	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.028	28.2#	73	0.00
21		4-Bromophenyl-phenylether	0.234	0.218	6.8	90	-0.01
22		Hexachlorobenzene	0.275	0.280	-1.8	95	-0.01
23		Atrazine	0.167	0.146	12.6	88	0.00
24		Pentachlorophenol	0.120	0.081	32.5#	79	-0.01
25		Phenanthrene	1.099	1.041	5.3	91	-0.01
26		Anthracene	0.994	0.903	9.2	89	0.00
27	SURR	Fluoranthene-d10	1.134	0.937	17.4	81	0.00
28		Fluoranthene	1.481	1.229	17.0	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	74	0.00
30		Pyrene	1.477	1.567	-6.1	78	0.00
31	S	Terphenyl-d14	0.789	0.823	-4.3	77	0.00
32		Benzo(a)anthracene	1.399	1.225	12.4	67	0.00
33		Chrysene	1.443	1.441	0.1	74	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.527	4.7	76	0.00
35	I	Perylene-d12	1.000	1.000	0.0	63	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.429	8.6	59	-0.01
37		Benzo(b)fluoranthene	1.463	1.803	-23.2	87	0.00
38		Benzo(k)fluoranthene	1.440	1.527	-6.0	69	0.00
39	C	Benzo(a)pyrene	1.205	1.091	9.5	60	0.00
40		Dibenzo(a,h)anthracene	1.234	1.076	12.8	57	0.00
41		Benzo(g,h,i)perylene	1.289	1.197	7.1	61	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035530.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	81	-0.01
2		1,4-Dioxane	0.400	0.395	1.3	81	0.00
3		n-Nitrosodimethylamine	0.400	0.403	-0.8	79	0.00
4	S	2-Fluorophenol	0.400	0.394	1.5	78	-0.01
5	S	Phenol-d6	0.400	0.401	-0.3	81	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.359	10.3	74	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.400	0.418	-4.5	97	-0.01
9		Naphthalene	0.400	0.387	3.3	87	-0.01
10		Hexachlorobutadiene	0.400	0.416	-4.0	91	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	88	-0.01
12		2-Methylnaphthalene	0.400	0.382	4.5	87	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	94	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.356	11.0	92	0.00
15	S	2-Fluorobiphenyl	0.400	0.385	3.8	90	-0.01
16		Acenaphthylene	0.400	0.370	7.5	91	-0.01
17		Acenaphthene	0.400	0.391	2.3	94	-0.01
18		Fluorene	0.400	0.390	2.5	95	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.283	29.3#	73	0.00
21		4-Bromophenyl-phenylether	0.400	0.373	6.8	90	-0.01
22		Hexachlorobenzene	0.400	0.407	-1.7	95	-0.01
23		Atrazine	0.400	0.350	12.5	88	0.00
24		Pentachlorophenol	0.400	0.270	32.5#	79	-0.01
25		Phenanthrene	0.400	0.379	5.3	91	-0.01
26		Anthracene	0.400	0.363	9.3	89	0.00
27	SURR	Fluoranthene-d10	0.400	0.330	17.5	81	0.00
28		Fluoranthene	0.400	0.332	17.0	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	74	0.00
30		Pyrene	0.400	0.425	-6.2	78	0.00
31	S	Terphenyl-d14	0.400	0.417	-4.2	77	0.00
32		Benzo(a)anthracene	0.400	0.350	12.5	67	0.00
33		Chrysene	0.400	0.400	0.0	74	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.382	4.5	76	0.00
35	I	Perylene-d12	0.400	0.400	0.0	63	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.366	8.5	59	-0.01
37		Benzo(b)fluoranthene	0.400	0.493	-23.2	87	0.00
38		Benzo(k)fluoranthene	0.400	0.424	-6.0	69	0.00
39	C	Benzo(a)pyrene	0.400	0.362	9.5	60	0.00
40		Dibenzo(a,h)anthracene	0.400	0.349	12.8	57	0.00
41		Benzo(g,h,i)perylene	0.400	0.371	7.3	61	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

QC SAMPLE DATA

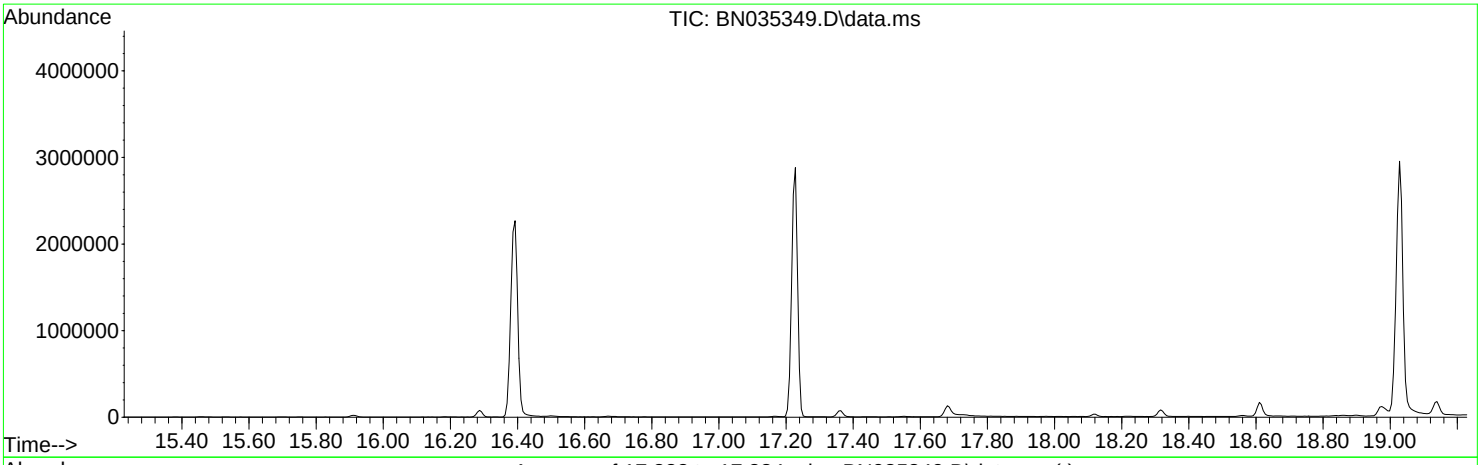
Sample Results: **BN035349.D**

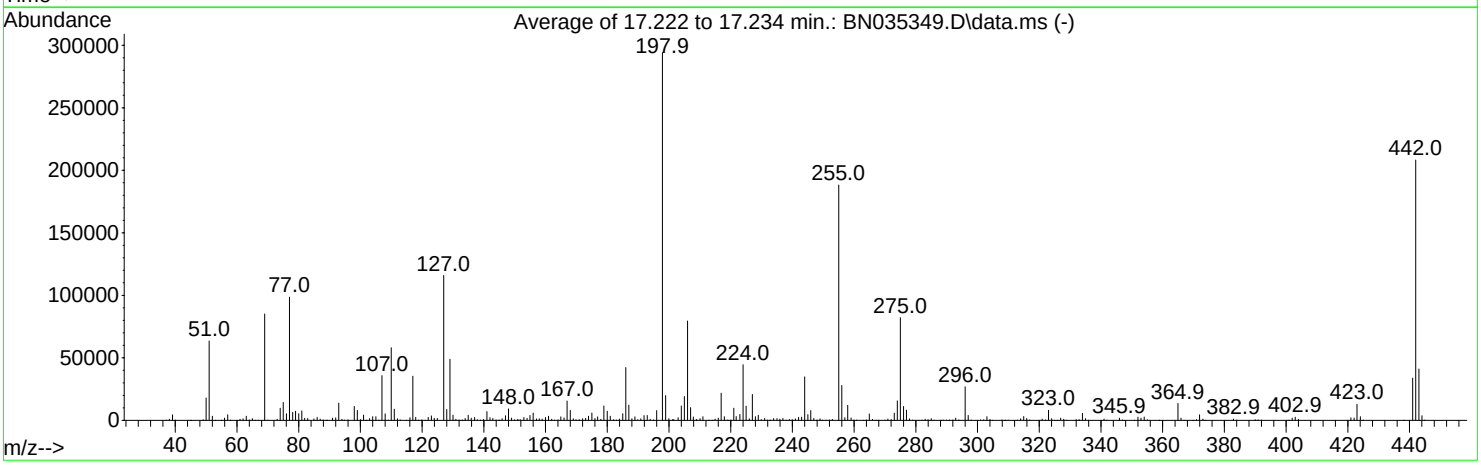
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024





AutoFind: Scans 2437, 2438, 2439; Background Corrected with Scan 2430

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.6	63480	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	28.9	85062	PASS
70	69	0.00	2	0.4	303	PASS
127	198	10	80	39.4	115899	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	294229	PASS
199	198	5	9	6.7	19826	PASS
275	198	10	60	27.9	82149	PASS
365	198	1	100	4.6	13565	PASS
441	198	0.01	100	11.5	33811	PASS
442	442	50	100	100.0	208235	PASS
443	442	15	24	19.7	41045	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/27/2024	BNA_N	BN035349.D
Compound Name	**Response**	**Retention Time**
DDT	985457	20.286
DDD	27636	19.839
DDE	578	19.322
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
28214	1013671	2.78

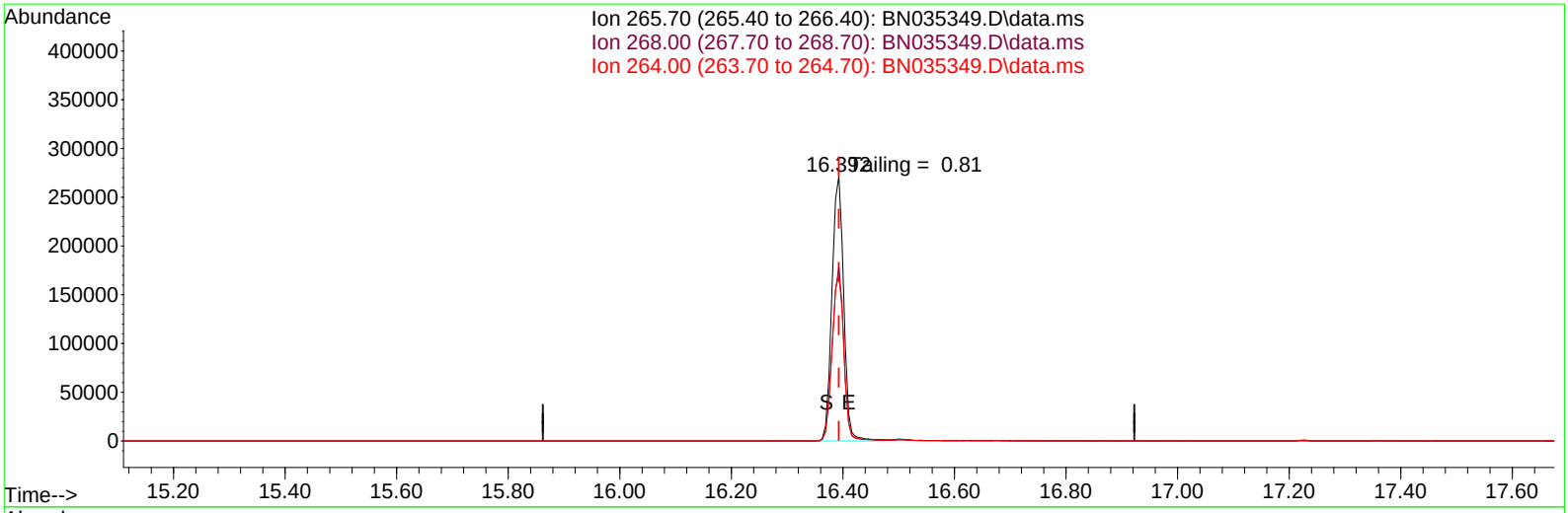
Instrument :
BNA_N
ClientSampleId :
DFTPP

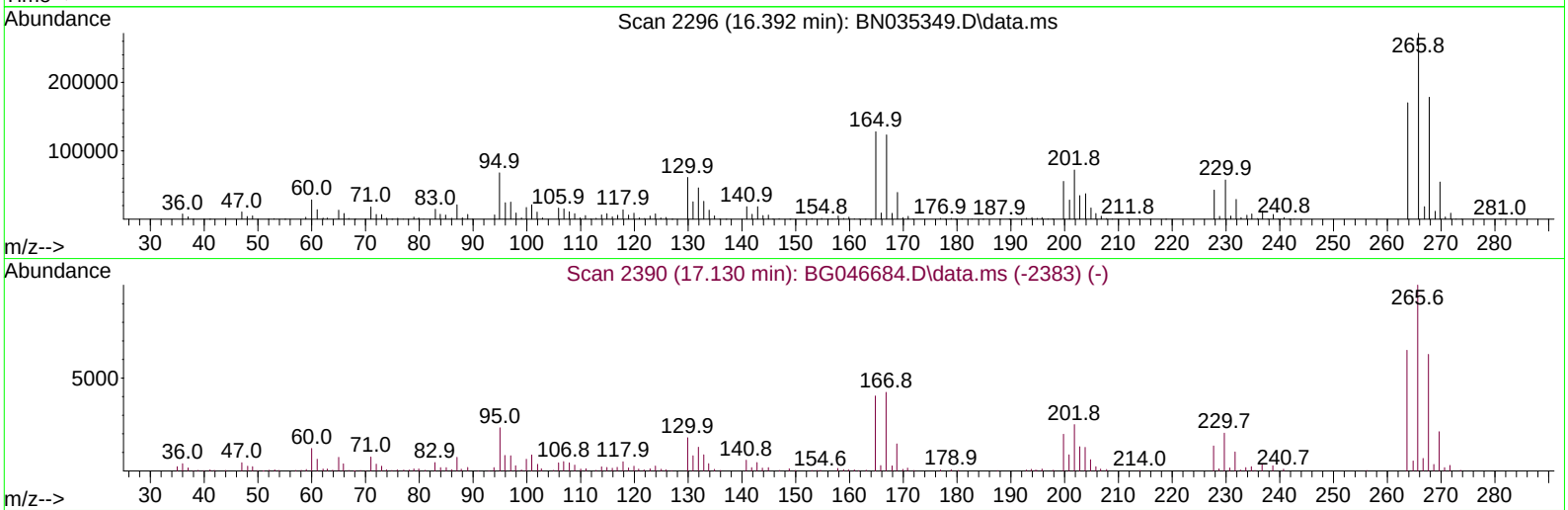
Sample Results: **BN035349.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration





TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

response 398074

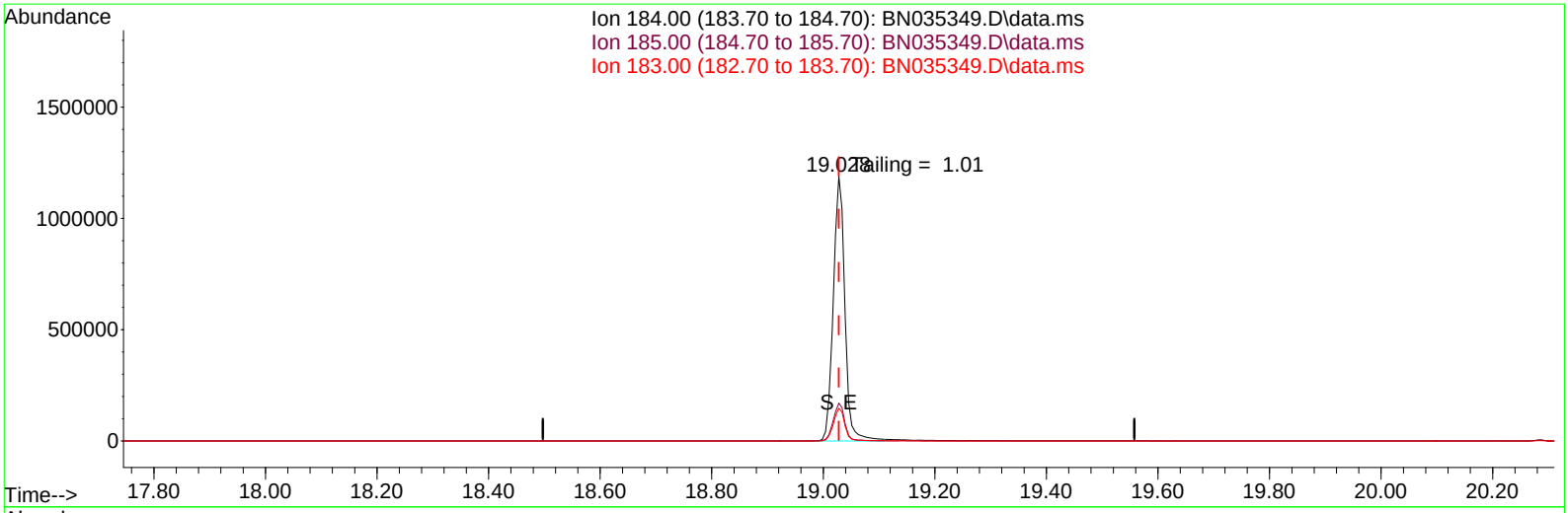
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

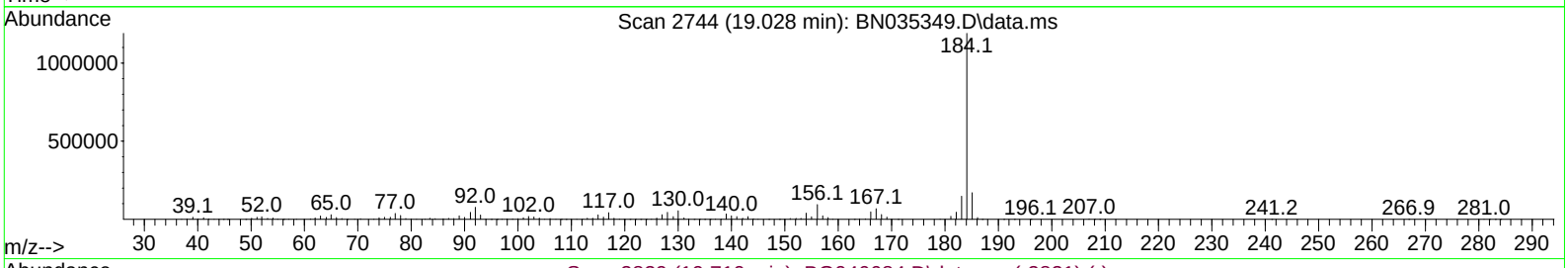
Sample Results: **BN035349.D**

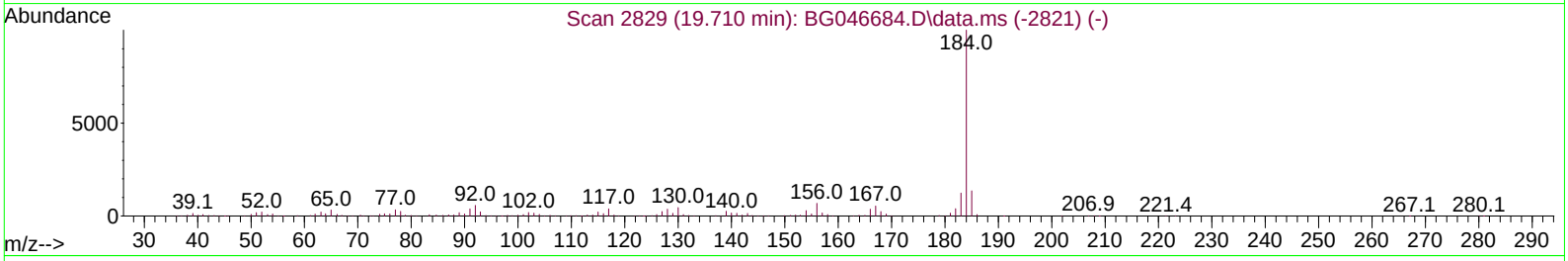
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

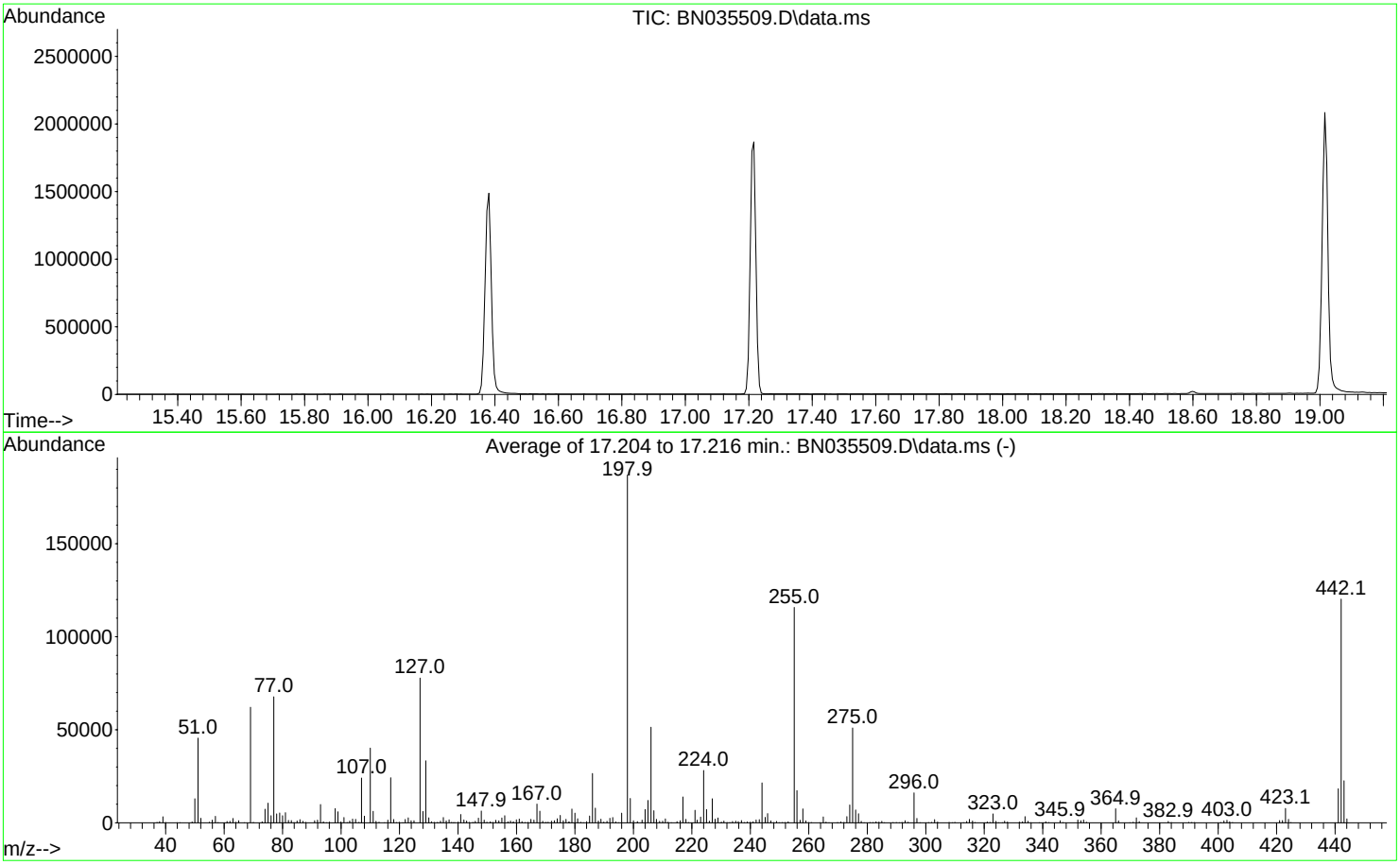
Sample Results: **BN035509.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



AutoFind: Scans 2434, 2435, 2436; Background Corrected with Scan 2428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.4	45533	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	33.2	62101	PASS
70	69	0.00	2	0.4	269	PASS
127	198	10	80	41.6	77816	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	186941	PASS
199	198	5	9	7.0	13108	PASS
275	198	10	60	27.3	51029	PASS
365	198	1	100	4.1	7578	PASS
441	198	0.01	100	9.8	18314	PASS
442	442	50	100	100.0	120309	PASS
443	442	15	24	18.8	22619	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/9/2024	BNA_N	BN035509.D
Compound Name	**Response**	**Retention Time**
DDT	555028	20.274
DDD	56573	19.827
DDE	2168	19.316
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
58741	613769	9.57

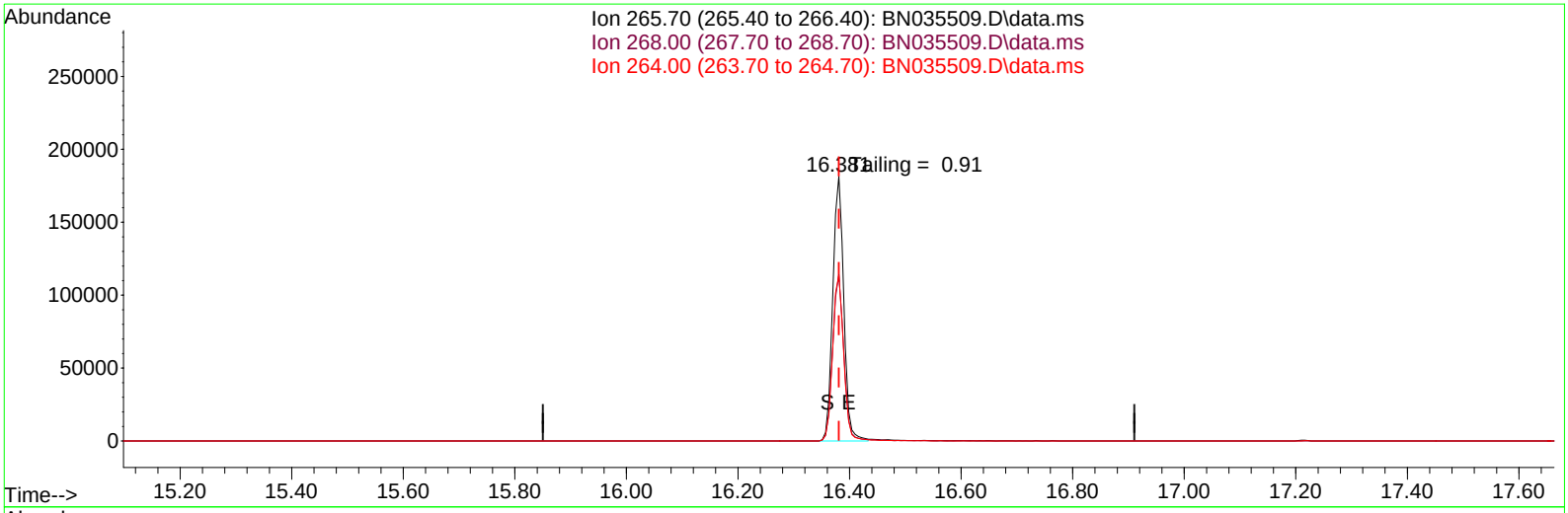
Instrument :
BNA_N
ClientSampleId :
DFTPP

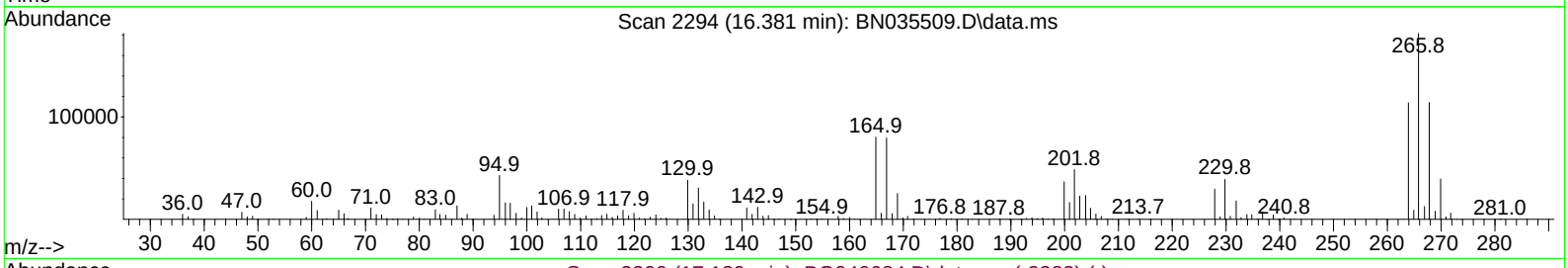
Sample Results: **BN035509.D**

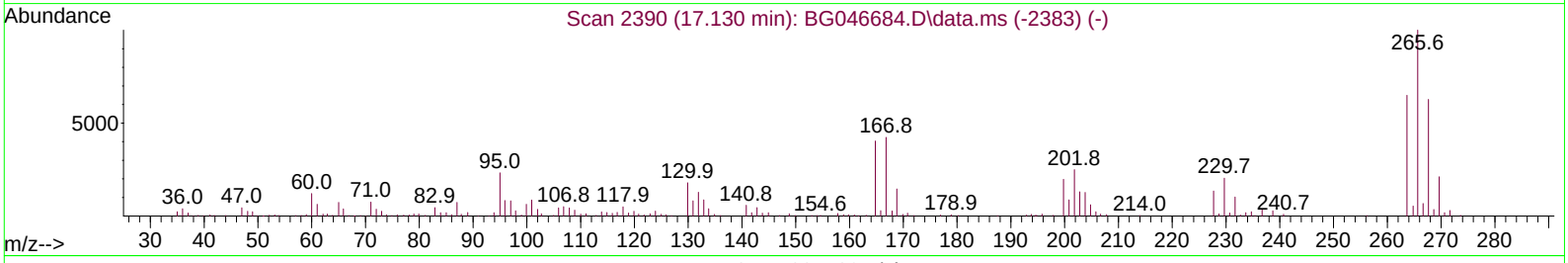
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 10 03:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 03:57:32 2024
Response via : Initial Calibration







TIC: BN035509.D\data.ms

(70) Pentachlorophenol (C)

16.381min (0.000) 23065.04 ng

response 251964

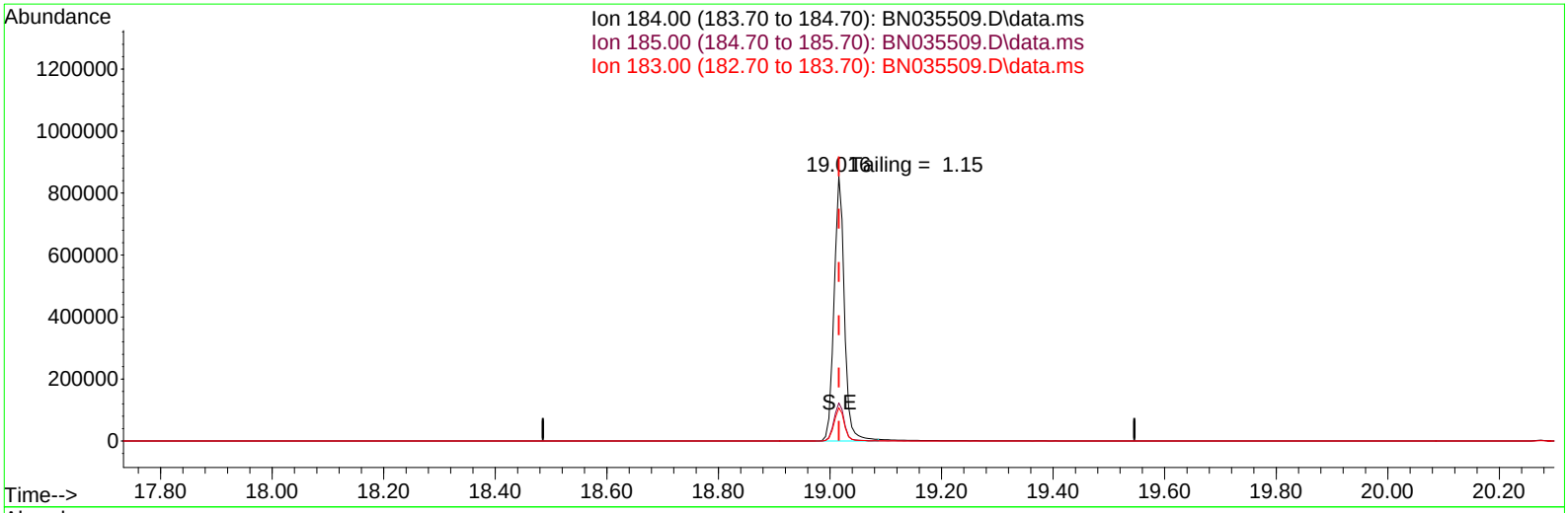
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.83
264.00	61.60	62.69
0.00	0.00	0.00

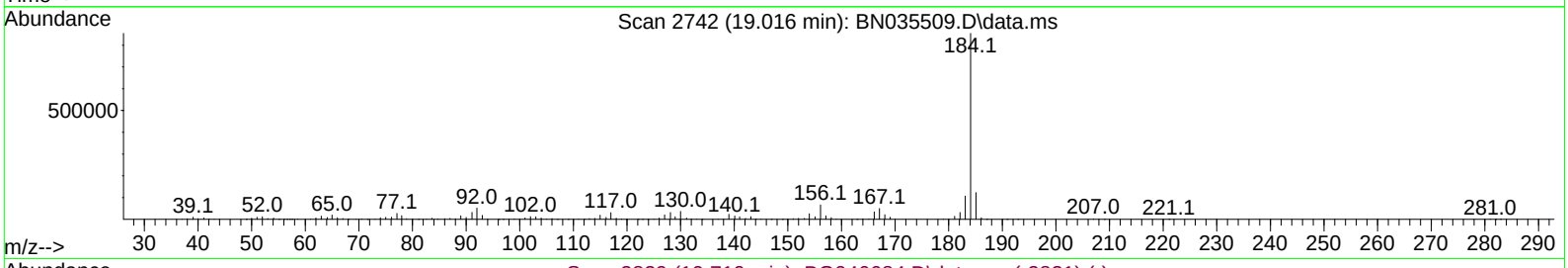
Sample Results: **BN035509.D**

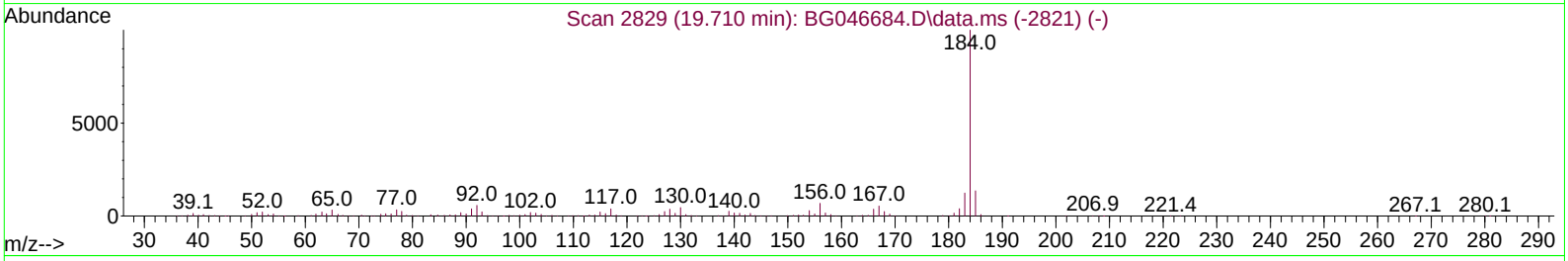
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035509.D
Acq On : 09 Dec 2024 16:28
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 10 03:57:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 10 03:57:32 2024
Response via : Initial Calibration







TIC: BN035509.D\data.ms

(77) Benzidine

19.016min (0.000) 0.00 ng

response 1117982

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.39
183.00	13.20	12.52
0.00	0.00	0.00

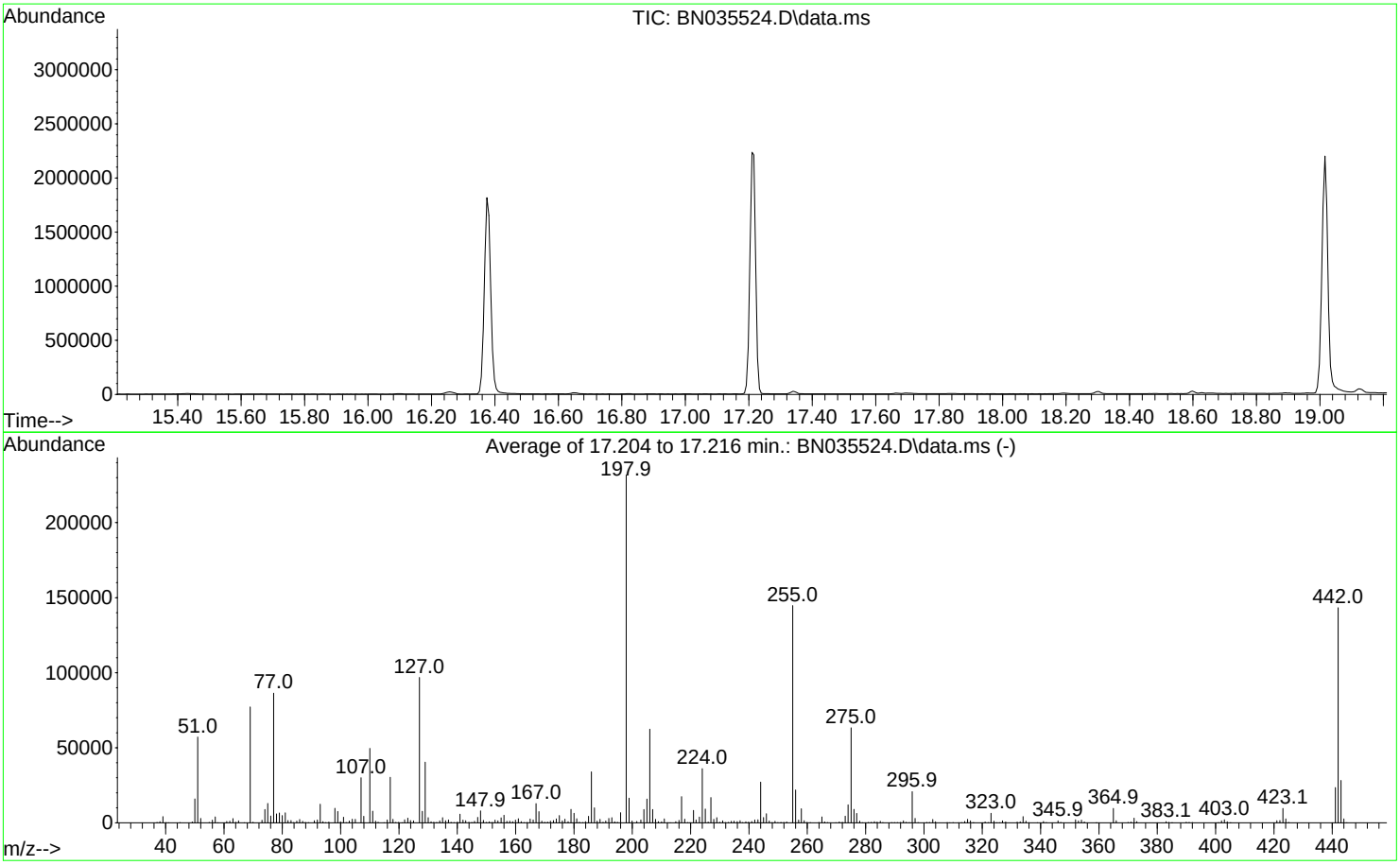
Sample Results: **BN035524.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 27 23:03:24 2024



AutoFind: Scans 2434, 2435, 2436; Background Corrected with Scan 2428

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.6	57104	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	33.3	77235	PASS
70	69	0.00	2	0.6	434	PASS
127	198	10	80	41.8	96816	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	231701	PASS
199	198	5	9	7.1	16431	PASS
275	198	10	60	27.3	63328	PASS
365	198	1	100	4.1	9588	PASS
441	198	0.01	100	10.1	23464	PASS
442	442	50	100	100.0	143315	PASS
443	442	15	24	19.7	28188	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/9/2024	BNA_N	BN035524.D
Compound Name	**Response**	**Retention Time**
DDT	684763	20.275
DDD	62588	19.828
DDE	4137	19.31
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
66725	751488	8.88

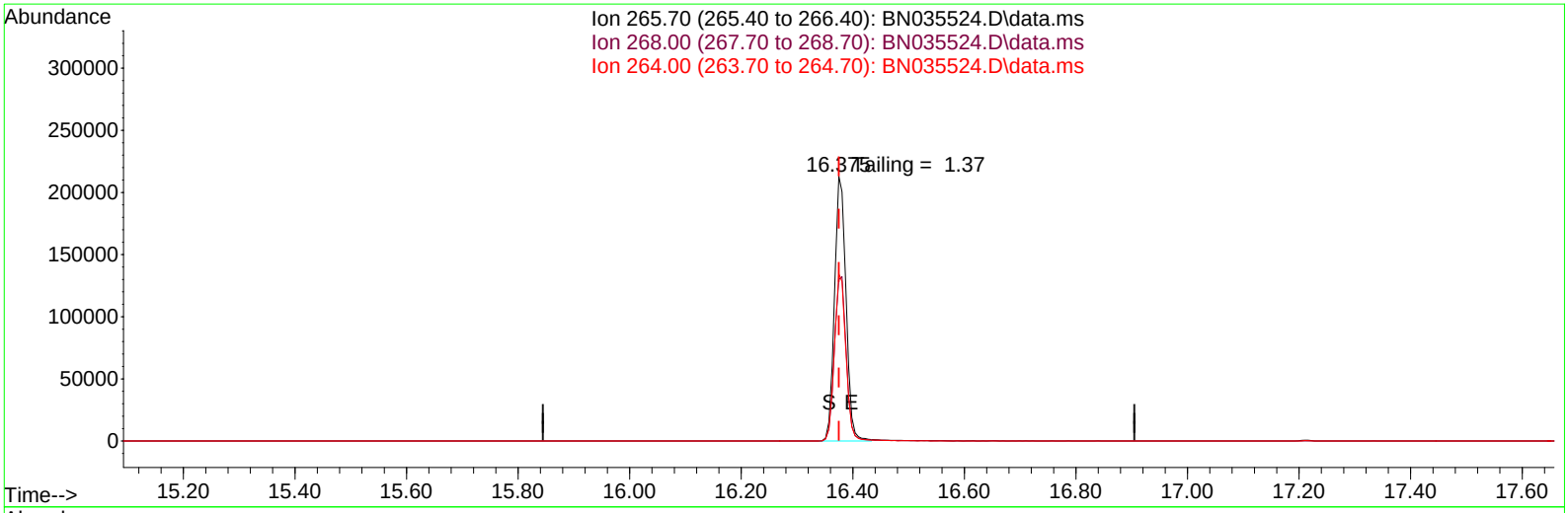
Instrument :
BNA_N
ClientSampleId :
DFTPP

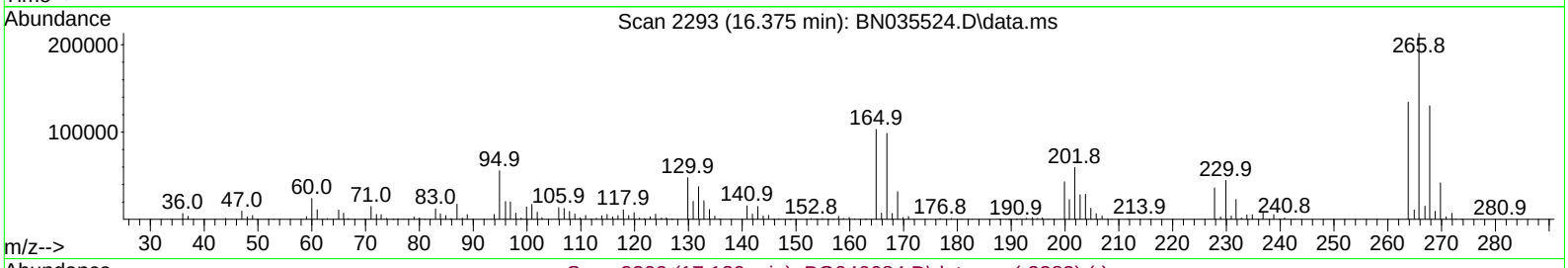
Sample Results: **BN035524.D**

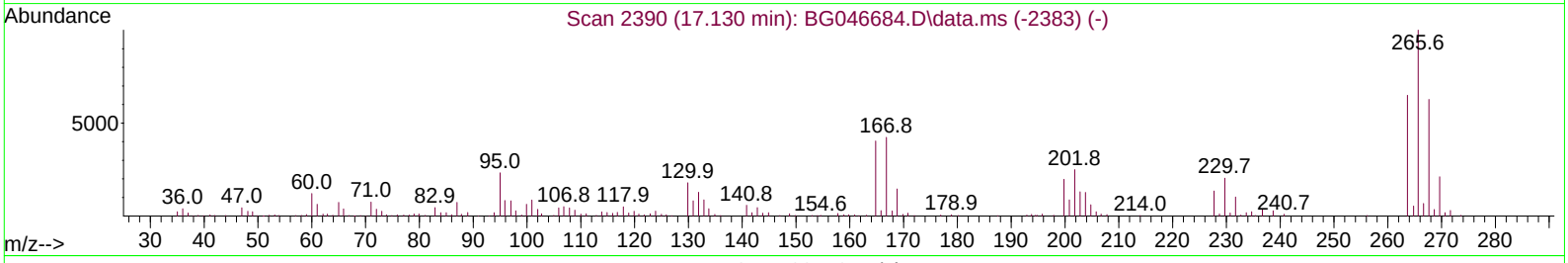
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 11 06:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 11 06:13:05 2024
Response via : Initial Calibration







TIC: BN035524.D\data.ms

(70) Pentachlorophenol (C)

16.375min (0.000) 25281.71 ng

response 307527

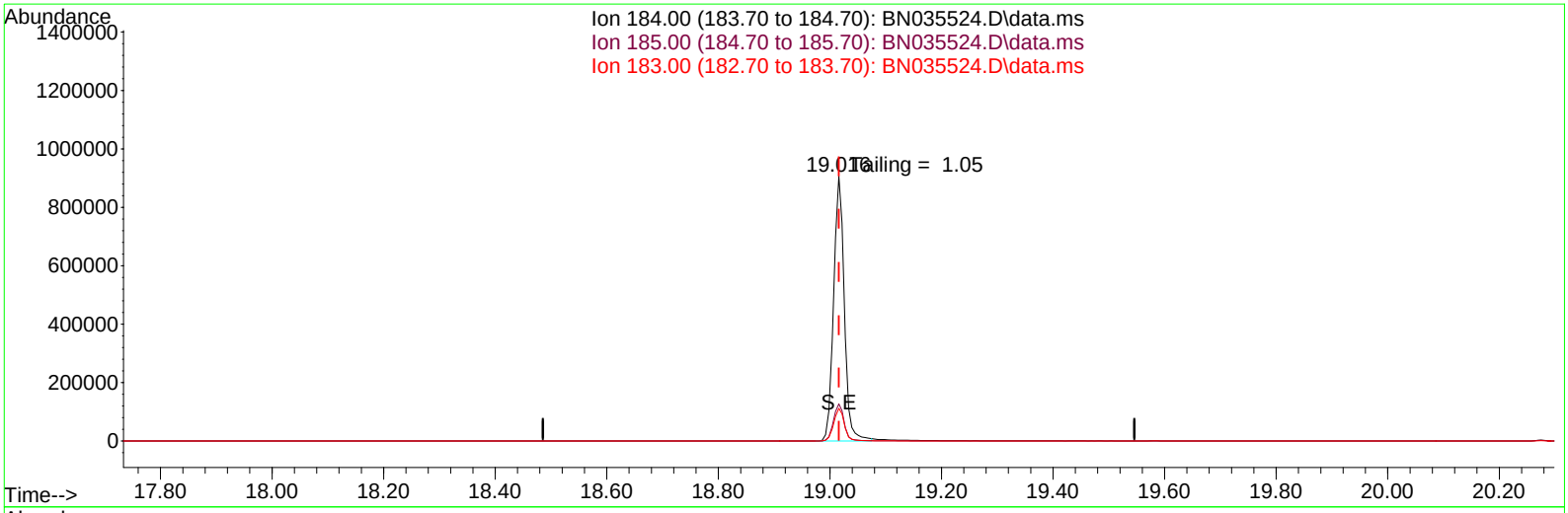
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.01
264.00	61.60	63.08
0.00	0.00	0.00

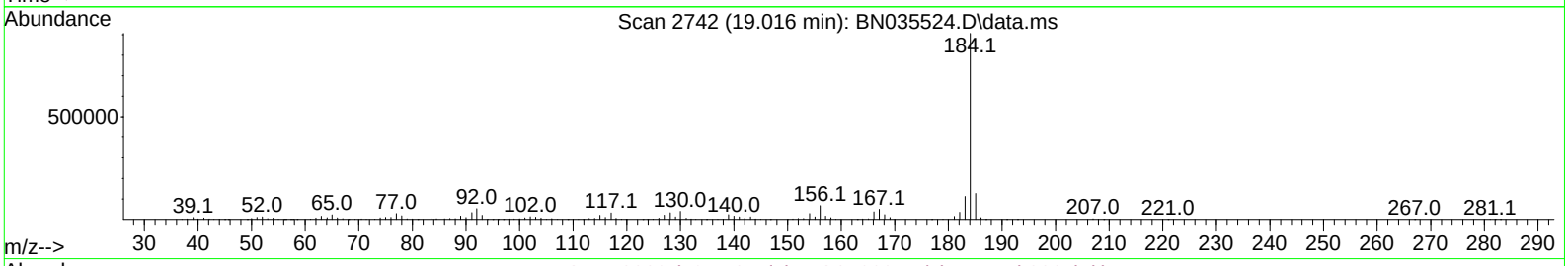
Sample Results: **BN035524.D**

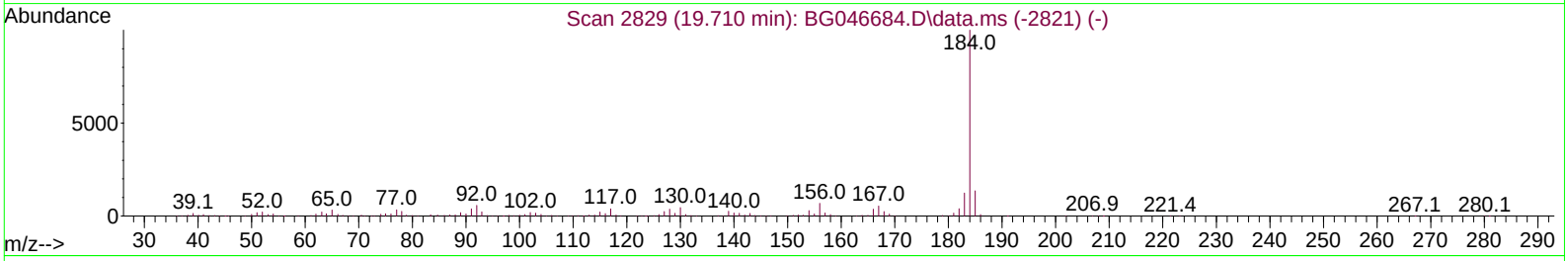
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035524.D
Acq On : 10 Dec 2024 08:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 11 06:13:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 11 06:13:05 2024
Response via : Initial Calibration







TIC: BN035524.D\data.ms

(77) Benzidine

19.016min (0.000) 0.00 ng

response 1233878

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.02
183.00	13.20	12.36
0.00	0.00	0.00

Raw Data: **BN035511.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165497BL	SDG No.:	P5166
Lab Sample ID:	PB165497BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035511.D	1	12/09/24 11:27	12/09/24 17:43	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		114%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		113%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43		53 - 106		106%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		141%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640	7.3				
1146-65-2	Naphthalene-d8	4580	10.052				
15067-26-2	Acenaphthene-d10	3250	13.957				
1517-22-2	Phenanthrene-d10	7570	16.736				
1719-03-5	Chrysene-d12	6430	20.974				
1520-96-3	Perylene-d12	6250	23.067				

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

Quantitation Report (QT Reviewed)

Sample Results: **BN035511.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1641	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4578	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3247	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	7570	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6431	0.400	ng	0.00
35) Perylene-d12	23.067	264	6251	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1921	0.468	ng	-0.01
5) Phenol-d6	6.506	99	2074	0.420	ng	0.00
8) Nitrobenzene-d5	8.440	82	1267m	0.453	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3268	0.456	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	444	0.193	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5214	0.425	ng	0.00
27) Fluoranthene-d10	18.785	212	9599	0.447	ng	0.00
31) Terphenyl-d14	19.407	244	7154	0.564	ng	0.00
Target Compounds						Qvalue

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

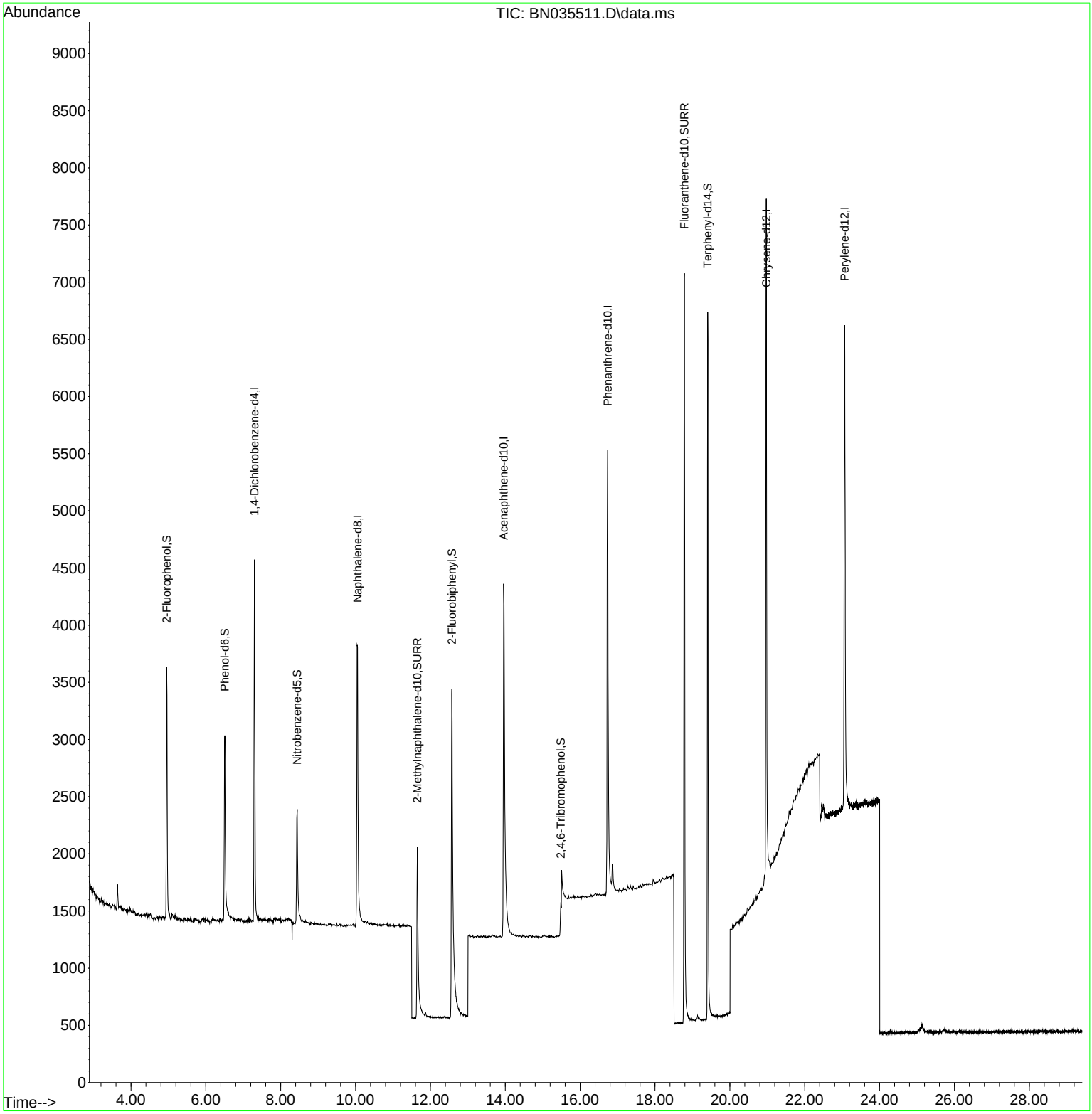
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

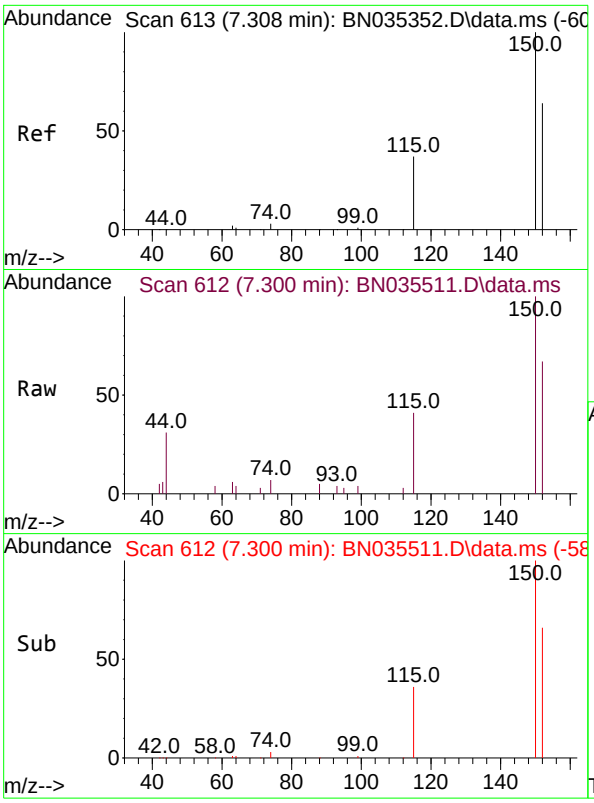
Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

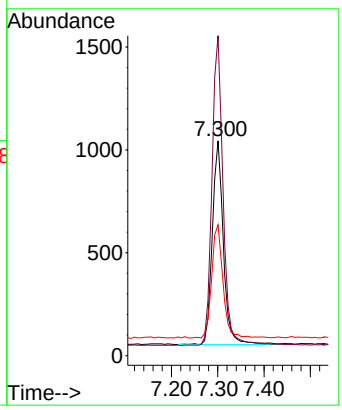




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:152 Resp: 164

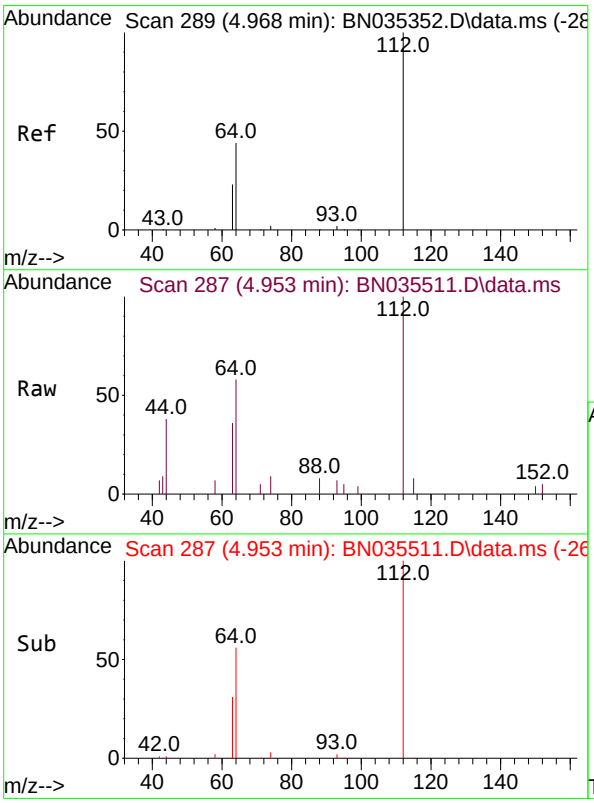
Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
APPROVED

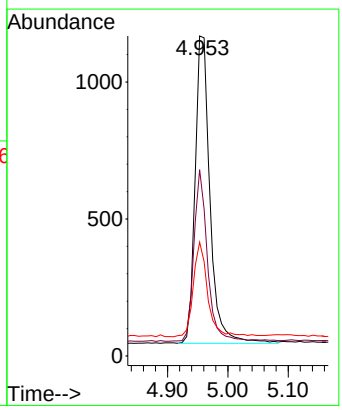
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

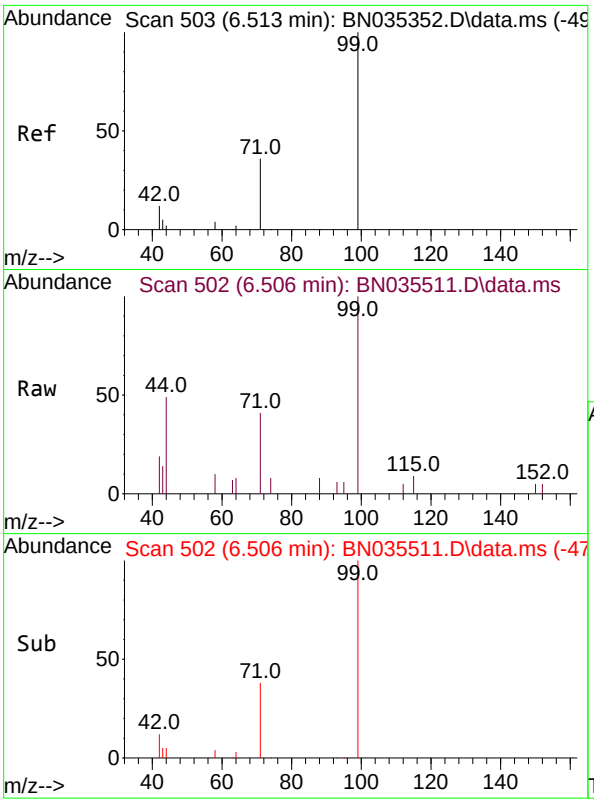


#4
2-Fluorophenol
Concen: 0.468 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:112 Resp: 1921

Ion	Ratio	Lower	Upper
112	100		
64	50.3	39.8	59.8
63	30.1	21.0	31.6

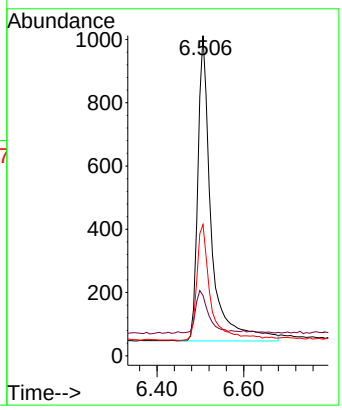




#5
Phenol-d6
Concen: 0.420 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion: 99 Resp: 207

Ion	Ratio	Lower	Upper
99	100		
42	13.2	11.4	17.2
71	37.0	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
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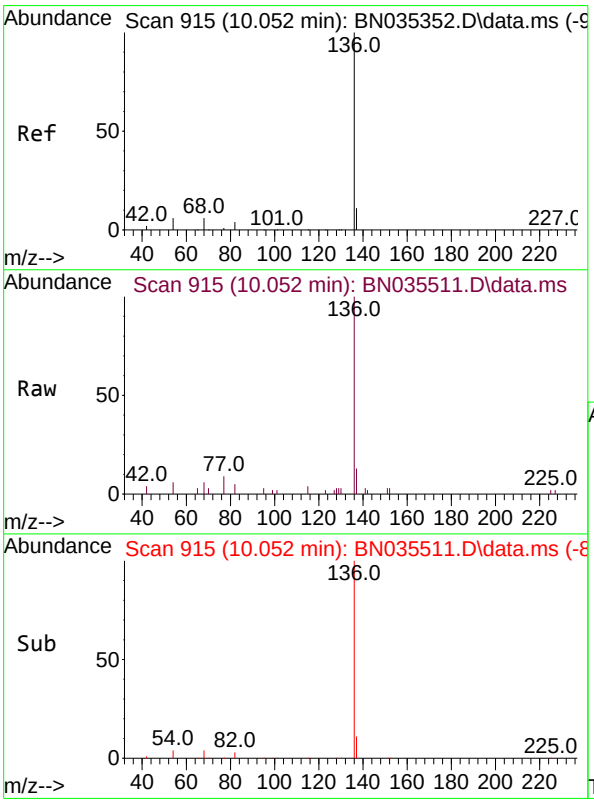
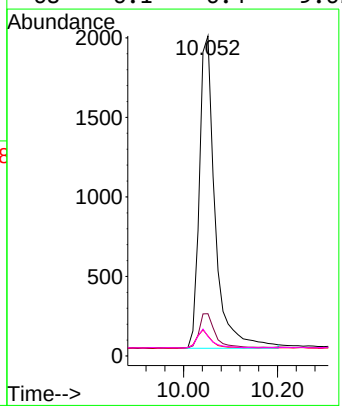
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

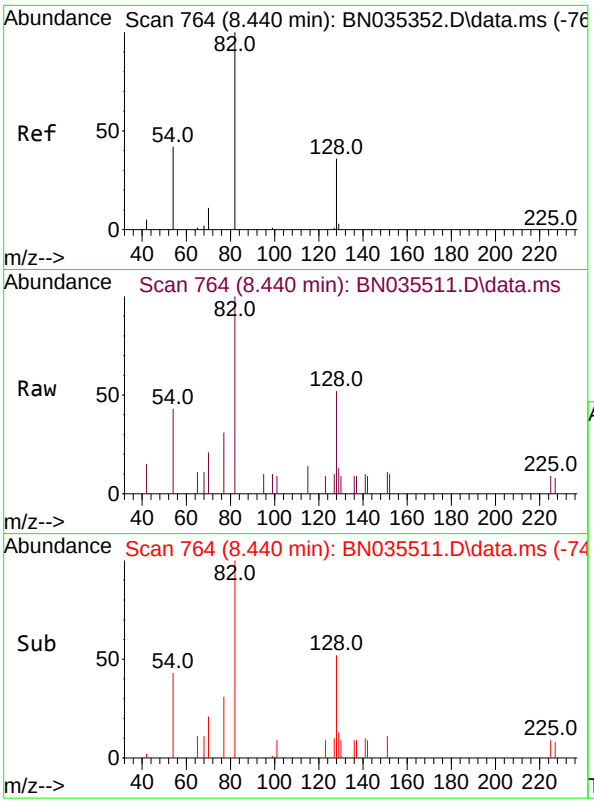


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:136 Resp: 4578

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.2	15.2
54	6.3	6.1	9.1
68	6.1	6.4	9.6#

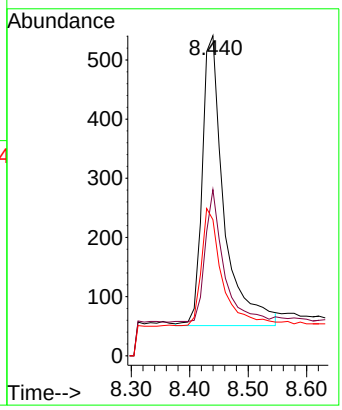




#8
Nitrobenzene-d5
Concen: 0.453 ng m
RT: 8.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion: 82 Resp: 126

Ion	Ratio	Lower	Upper
82	100		
128	51.9	33.4	50.0#
54	42.5	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
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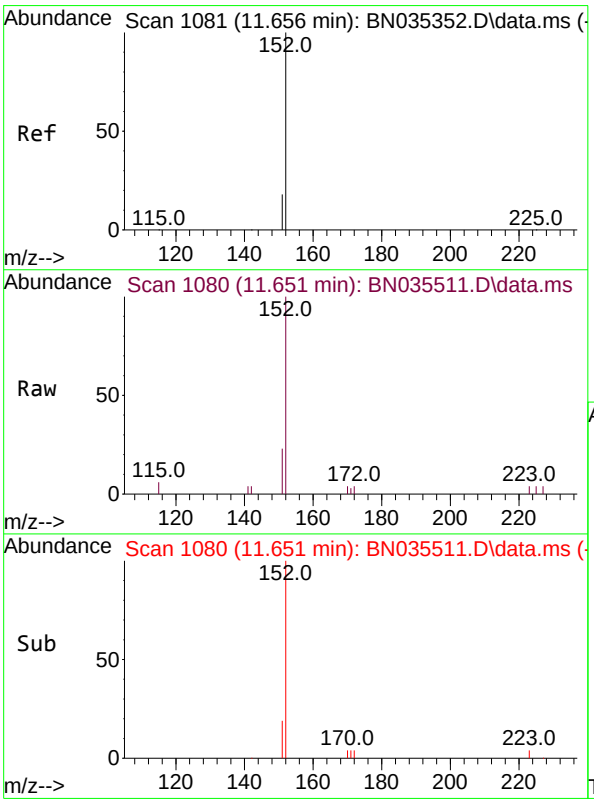
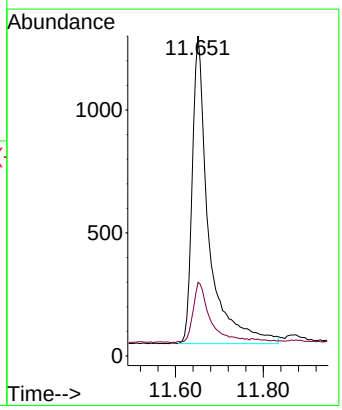
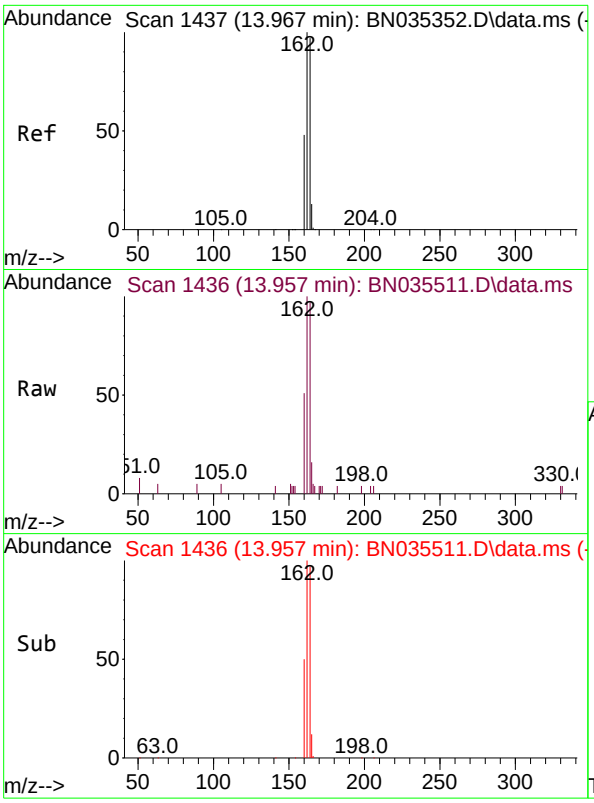


#11
2-Methylnaphthalene-d10
Concen: 0.456 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:152 Resp: 3268

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0

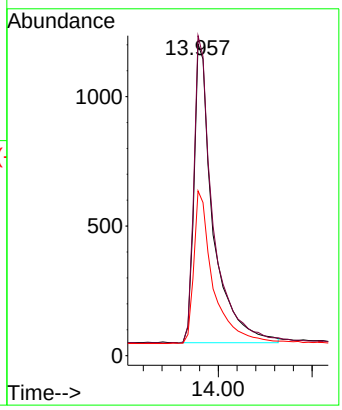




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:164 Resp: 324

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	52.9	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165497BL

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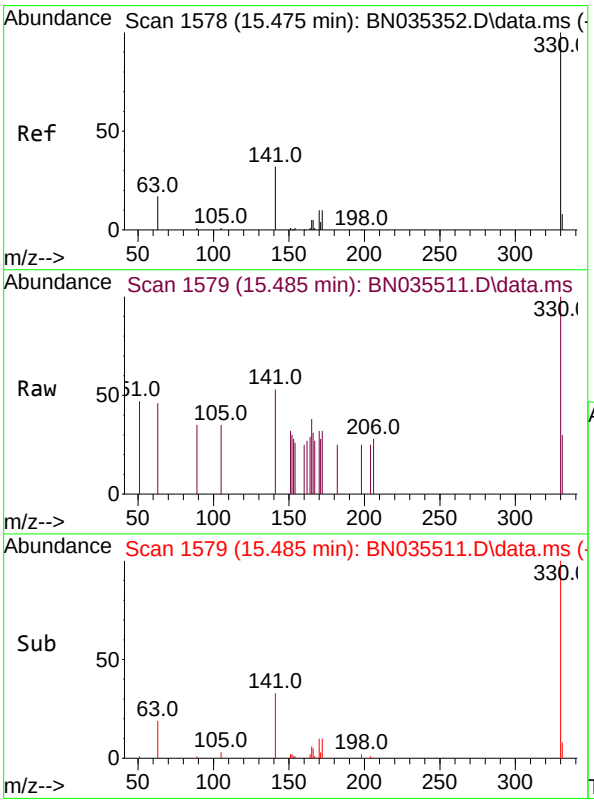
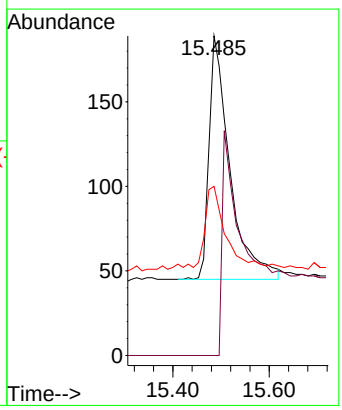
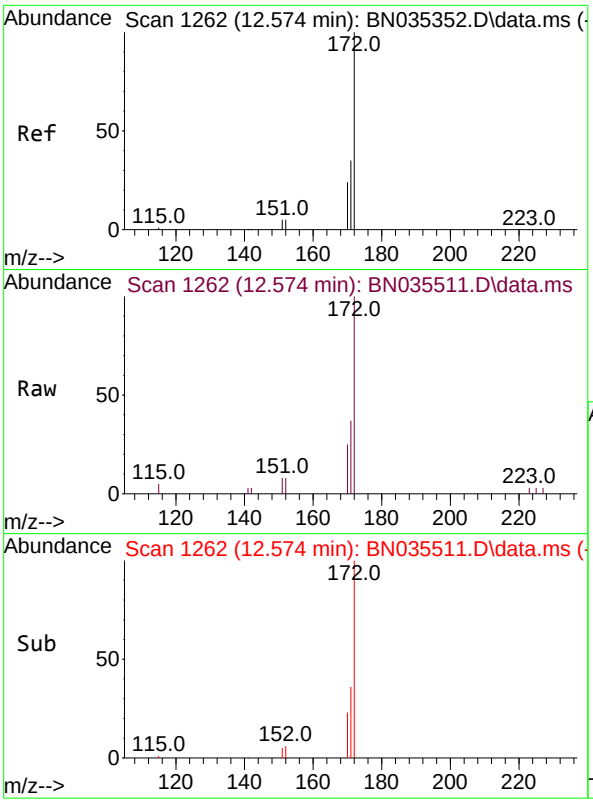


#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:330 Resp: 444

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.9	26.6	40.0

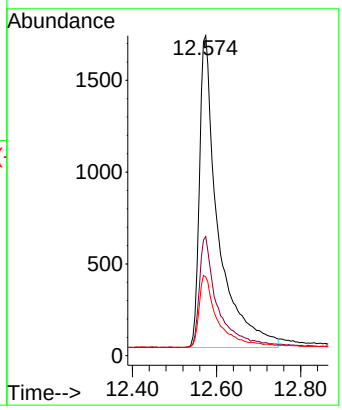




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:172 Resp: 521

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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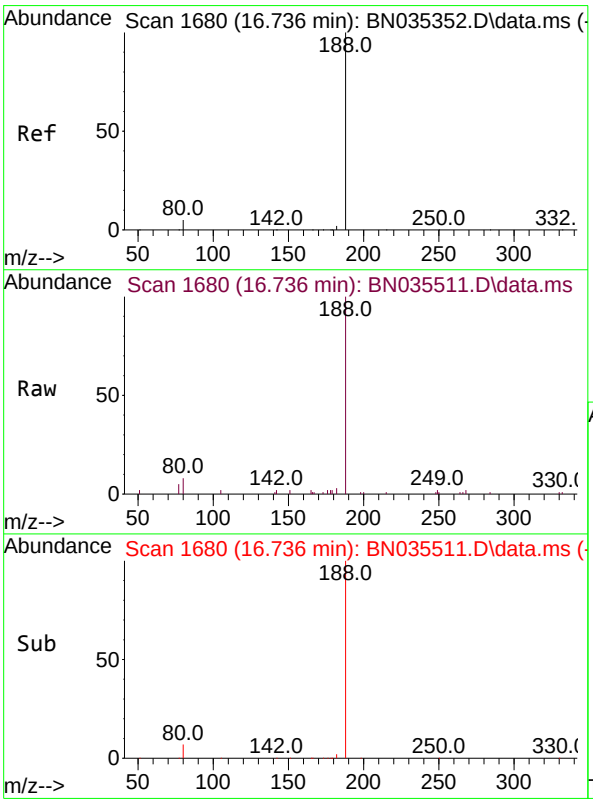
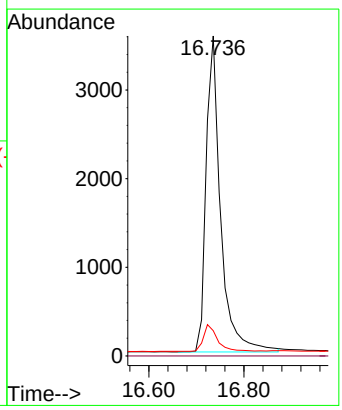
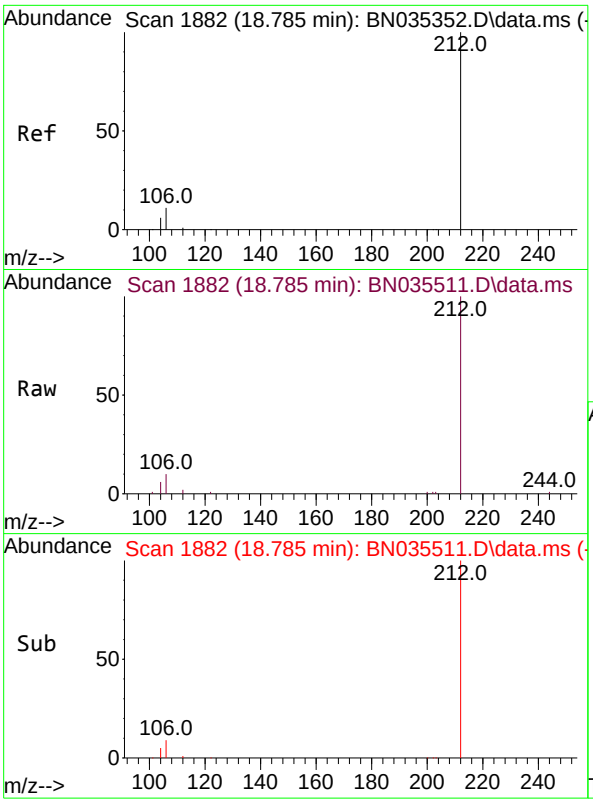


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:188 Resp: 7570

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.6	6.8#

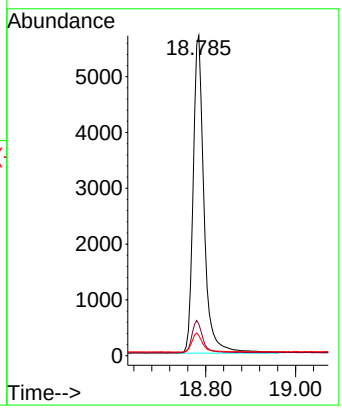




#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:212 Resp: 959

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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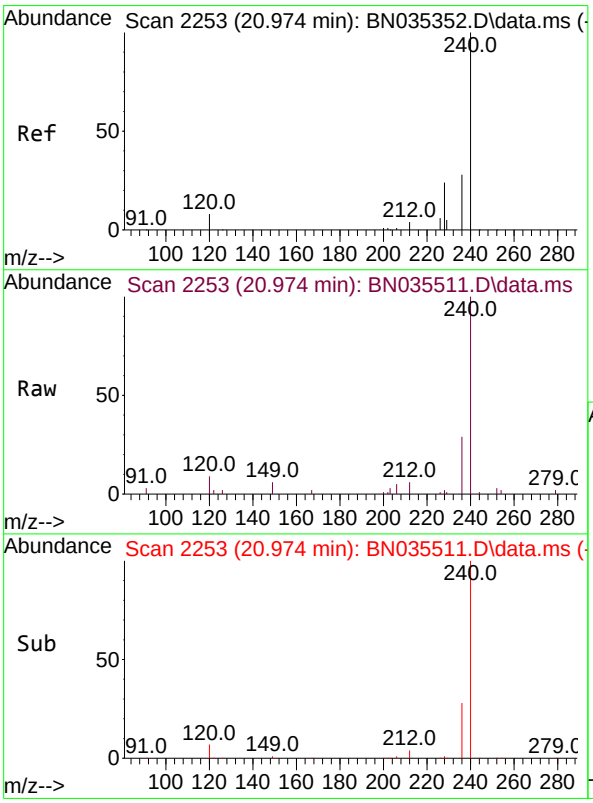
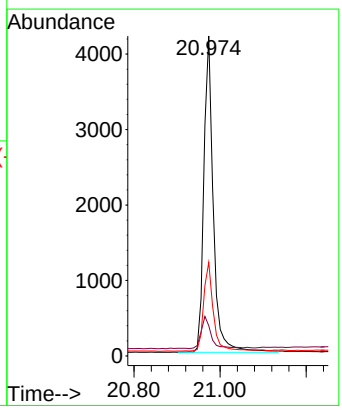
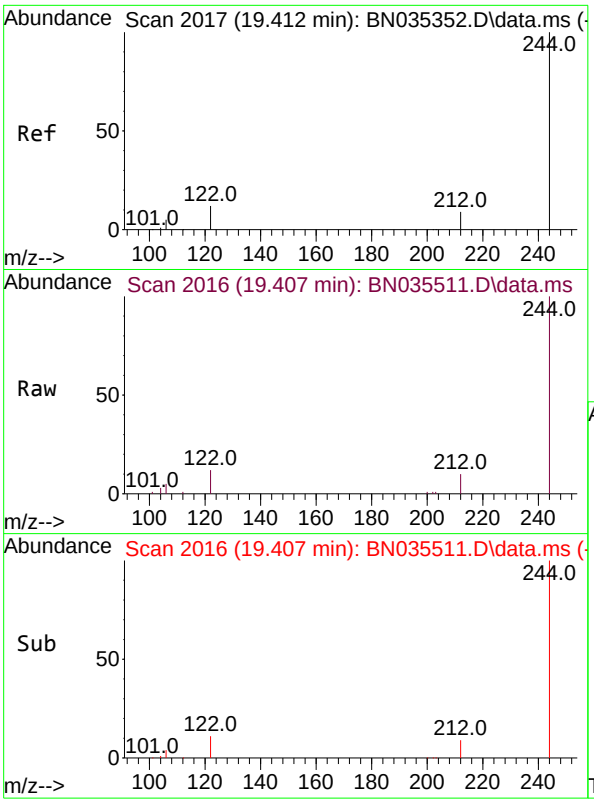


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:240 Resp: 6431

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	29.2	22.9	34.3

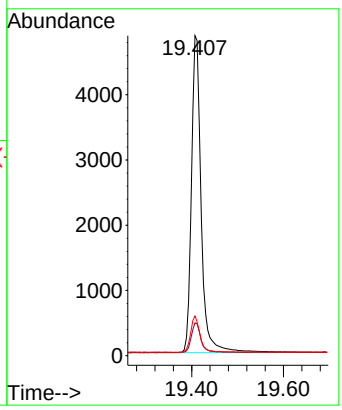




#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:244 Resp: 715

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	12.4	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165497BL

Manual Integrations
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Reviewed By :Yogesh Patel 12/11/2024
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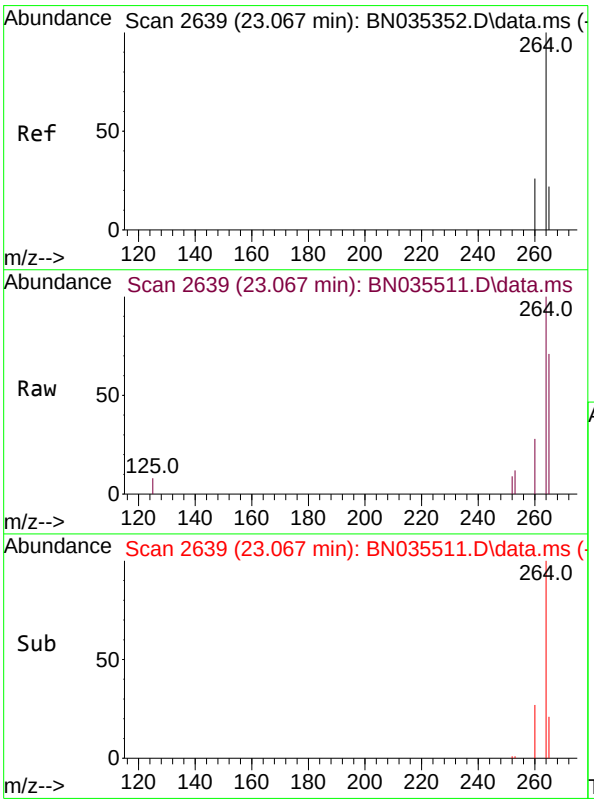
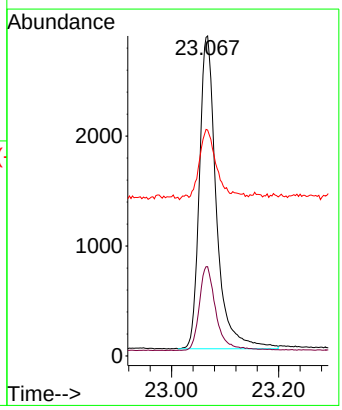


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:264 Resp: 6251

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	70.6	40.2	60.4#



Raw Data: **BN035528.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165497BS	SDG No.:	P5166
Lab Sample ID:	PB165497BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035528.D	1	12/09/24 11:27	12/10/24 11:21	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.36		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1670	7.3				
1146-65-2	Naphthalene-d8	4430	10.041				
15067-26-2	Acenaphthene-d10	3090	13.956				
1517-22-2	Phenanthrene-d10	7960	16.723				
1719-03-5	Chrysene-d12	6700	20.964				
1520-96-3	Perylene-d12	5950	23.058				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035528.D
Acq On : 10 Dec 2024 11:21
Operator : RC/JU
Sample : PB165497BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:28:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.300	152	1669	0.400	ng		0.00
7) Naphthalene-d8	10.041	136	4431	0.400	ng		-0.01
13) Acenaphthene-d10	13.956	164	3092	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	7959	0.400	ng		#-0.01
29) Chrysene-d12	20.964	240	6696	0.400	ng		0.00
35) Perylene-d12	23.058	264	5945	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.960	112	1476	0.353	ng		0.00
5) Phenol-d6	6.506	99	1774	0.353	ng		0.00
8) Nitrobenzene-d5	8.429	82	1110m	0.410	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3705	0.534	ng		-0.01
14) 2,4,6-Tribromophenol	15.474	330	487	0.222	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	4718	0.404	ng		-0.01
27) Fluoranthene-d10	18.775	212	8501	0.377	ng		0.00
31) Terphenyl-d14	19.407	244	6284	0.476	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.988	88	576	0.361	ng	#	57
3) n-Nitrosodimethylamine	3.285	42	601	0.452	ng	#	88
6) bis(2-Chloroethyl)ether	6.744	93	1620	0.384	ng		98
9) Naphthalene	10.094	128	4529	0.388	ng		99
10) Hexachlorobutadiene	10.383	225	1103	0.409	ng	#	98
12) 2-Methylnaphthalene	11.722	142	3239	0.387	ng		99
16) Acenaphthylene	13.668	152	5188	0.400	ng		100
17) Acenaphthene	14.020	154	3398	0.394	ng		99
18) Fluorene	15.025	166	4774	0.387	ng		100
20) 4,6-Dinitro-2-methylph...	15.132	198	191	0.244	ng	#	51
21) 4-Bromophenyl-phenylether	15.928	248	1680	0.361	ng	#	84
22) Hexachlorobenzene	16.028	284	2050	0.375	ng		98
23) Atrazine	16.226	200	1210	0.365	ng		96
24) Pentachlorophenol	16.388	266	731	0.307	ng	#	85
25) Phenanthrene	16.760	178	8421	0.385	ng		100
26) Anthracene	16.859	178	7595	0.384	ng		99
28) Fluoranthene	18.807	202	10125	0.344	ng		99
30) Pyrene	19.174	202	10396	0.421	ng		100
32) Benzo(a)anthracene	20.946	228	8539	0.365	ng		100
33) Chrysene	21.000	228	9922	0.411	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3709	0.401	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	8871	0.382	ng		96
37) Benzo(b)fluoranthene	22.444	252	11072	0.509	ng		99
38) Benzo(k)fluoranthene	22.488	252	9381	0.438	ng		98
39) Benzo(a)pyrene	22.971	252	7413	0.414	ng		95
40) Dibenzo(a,h)anthracene	25.116	278	6401	0.349	ng		96
41) Benzo(g,h,i)perylene	25.710	276	7301	0.381	ng		98

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

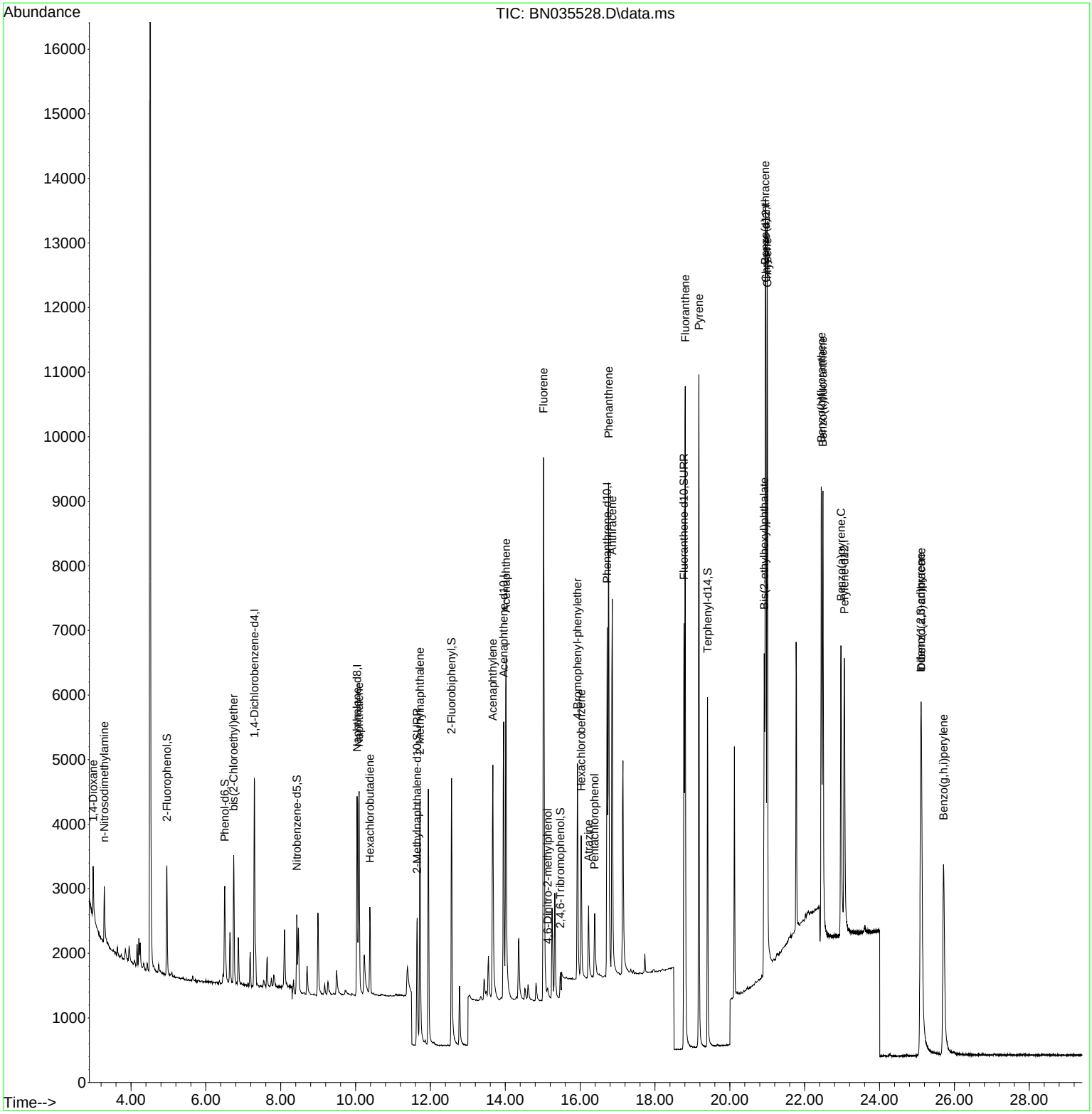
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035528.D
Acq On : 10 Dec 2024 11:21
Operator : RC/JU
Sample : PB165497BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

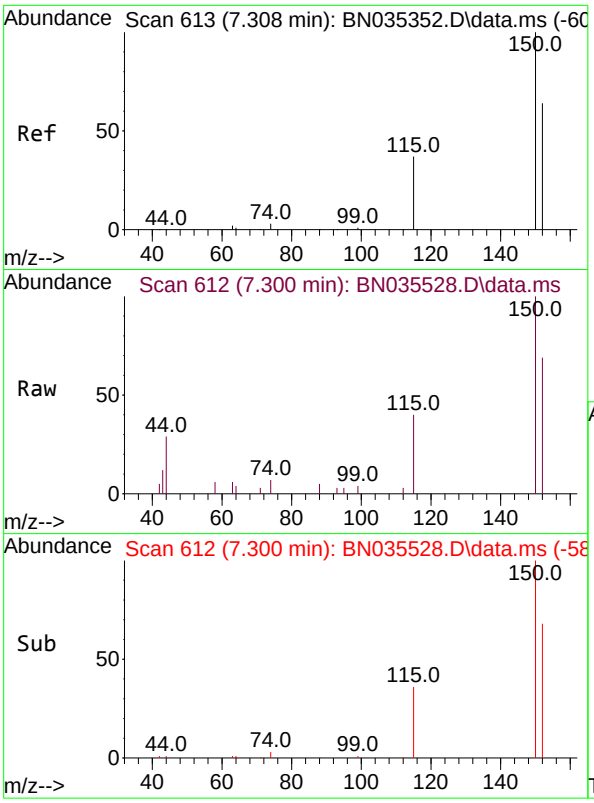
Quant Time: Dec 10 12:28:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

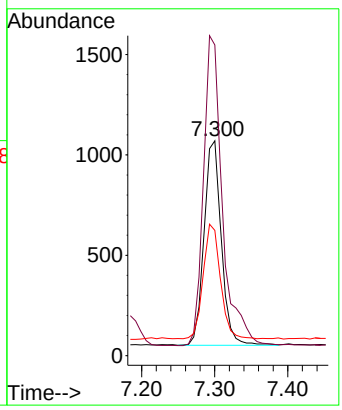




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:152 Resp: 166

Ion	Ratio	Lower	Upper
152	100		
150	144.7	124.0	186.0
115	58.3	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
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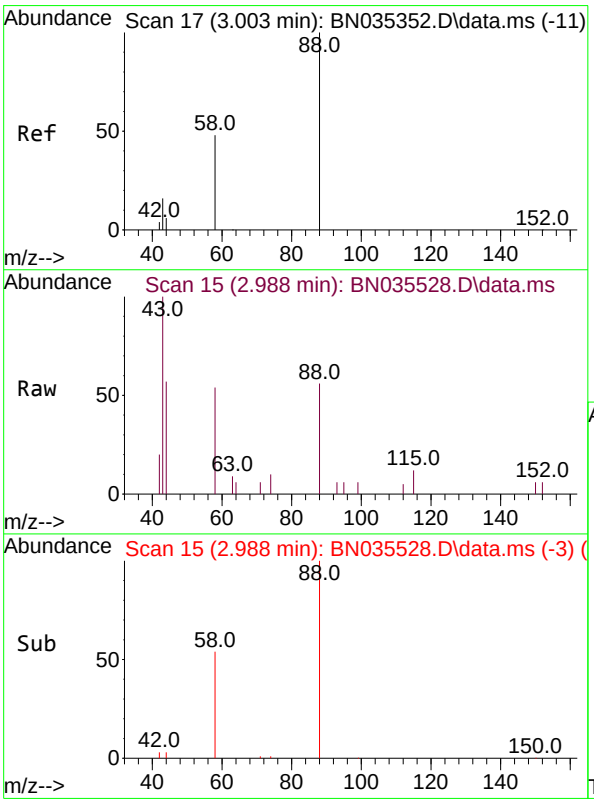
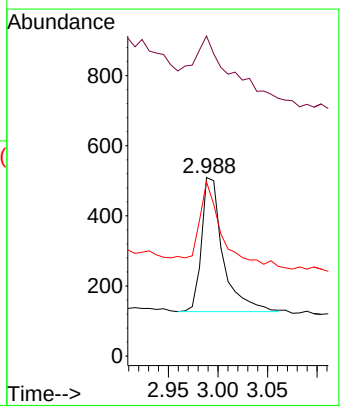
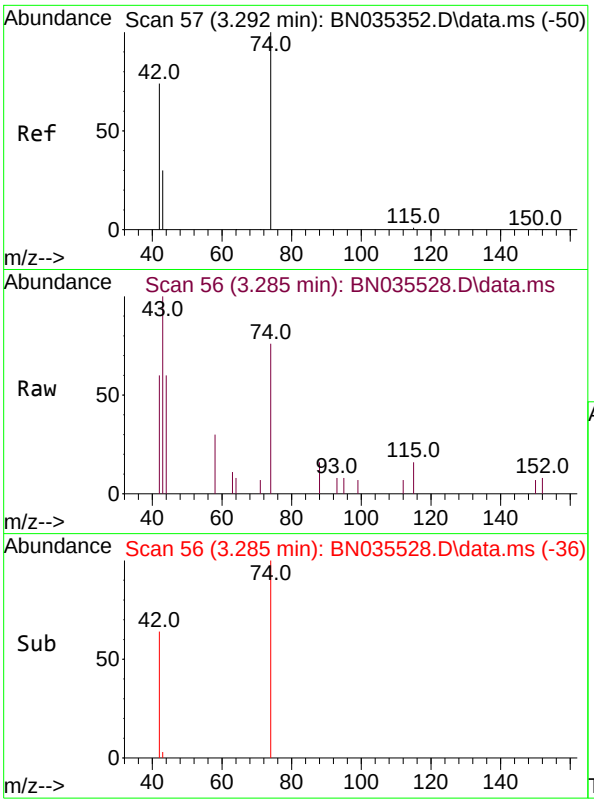


#2
1,4-Dioxane
Concen: 0.361 ng
RT: 2.988 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 88 Resp: 576

Ion	Ratio	Lower	Upper
88	100		
43	75.0	17.2	25.8#
58	67.4	44.5	66.7#

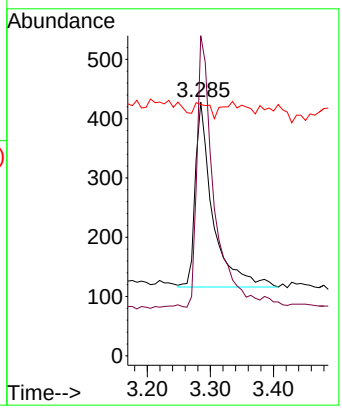




#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 42 Resp: 60

Ion	Ratio	Lower	Upper
42	100		
74	140.3	124.9	187.3
44	7.0	2.2	3.4



Instrument :
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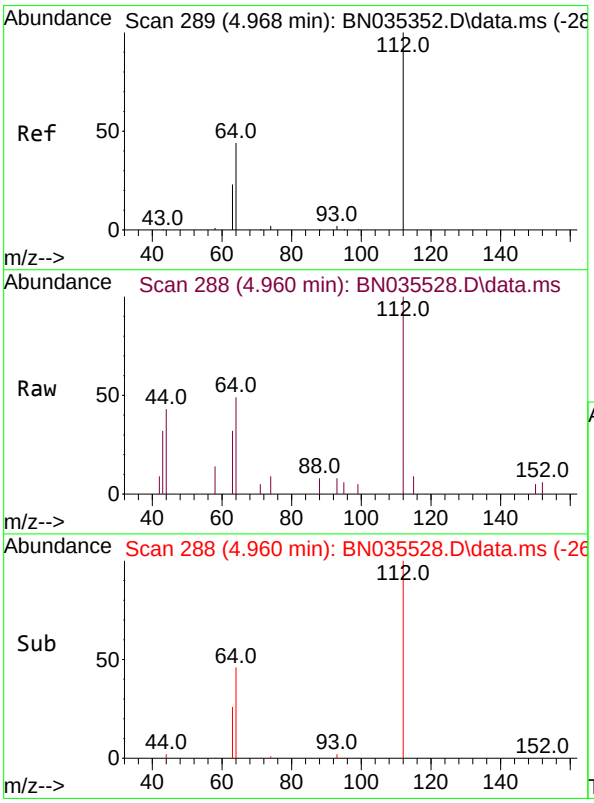
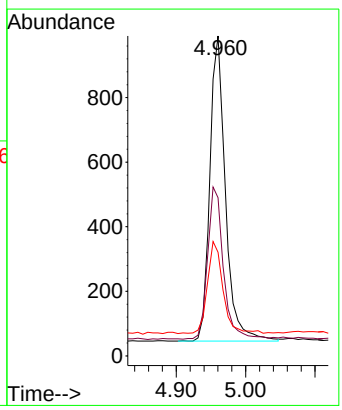
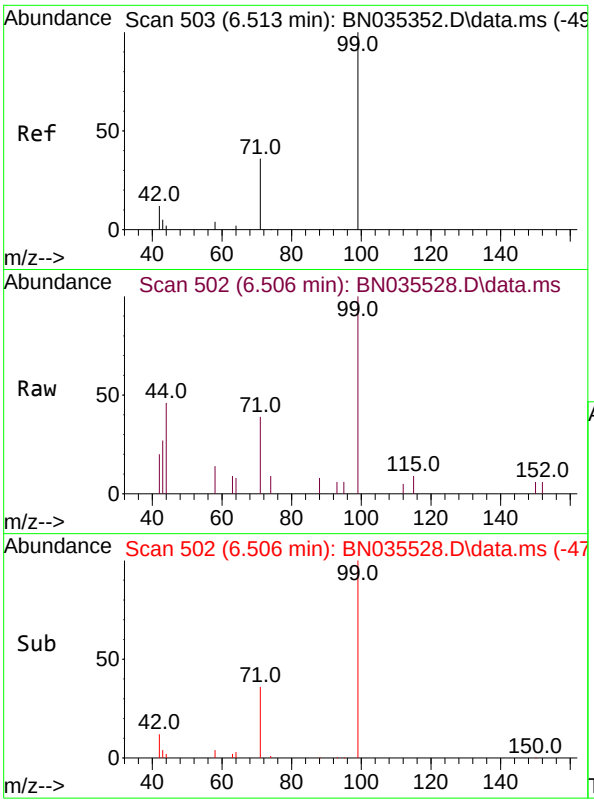


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:112 Resp: 1476

Ion	Ratio	Lower	Upper
112	100		
64	50.3	39.8	59.8
63	29.7	21.0	31.6

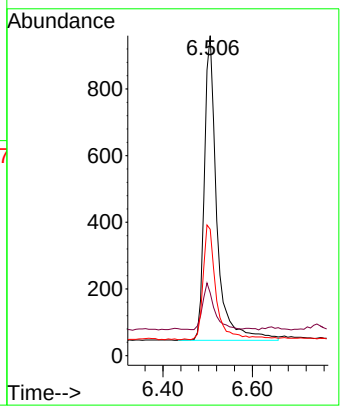




#5
Phenol-d6
Concen: 0.353 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 99 Resp: 177

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	39.4	29.3	43.9



Instrument :
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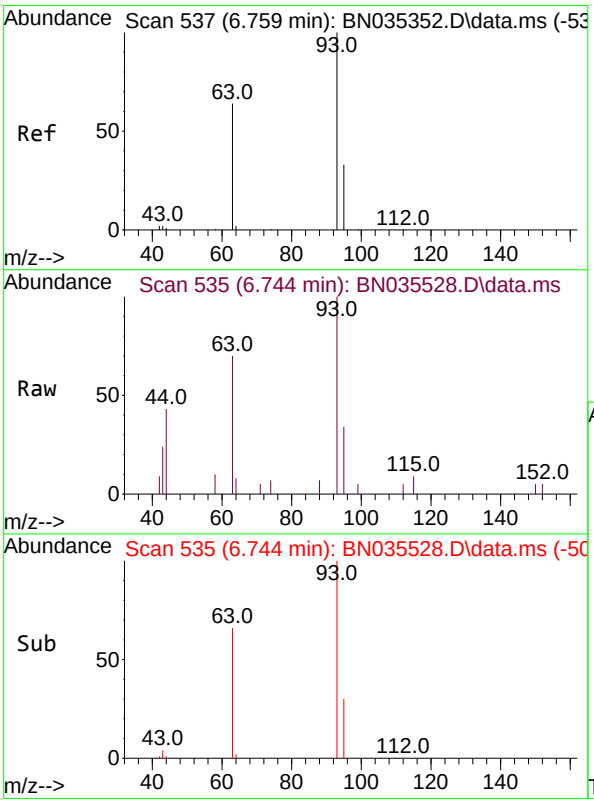
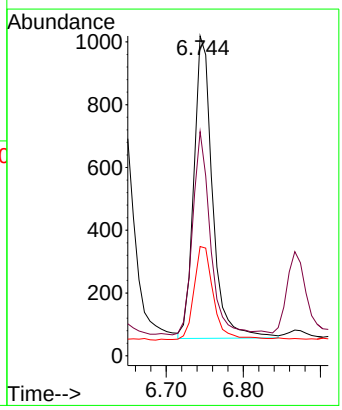
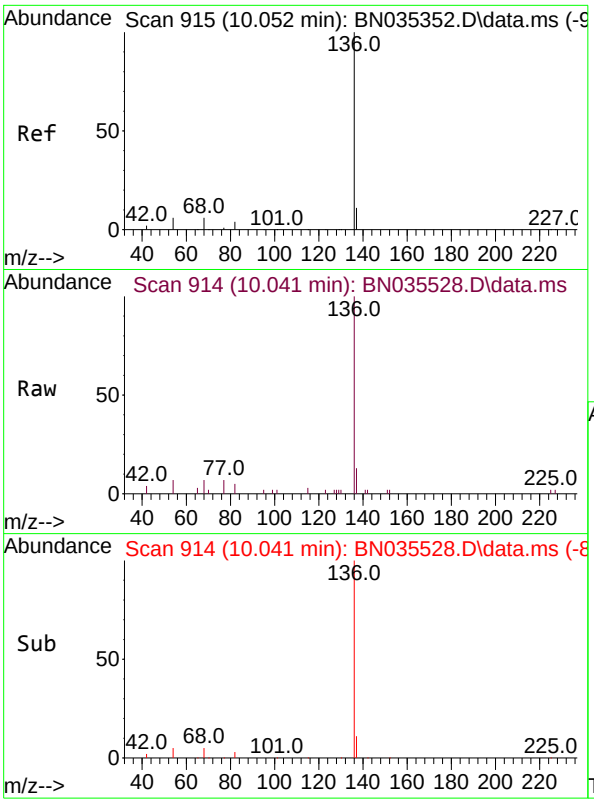


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 93 Resp: 1620

Ion	Ratio	Lower	Upper
93	100		
63	64.3	50.4	75.6
95	32.9	25.7	38.5

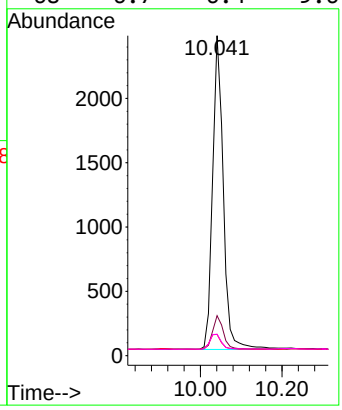




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:136 Resp: 443

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
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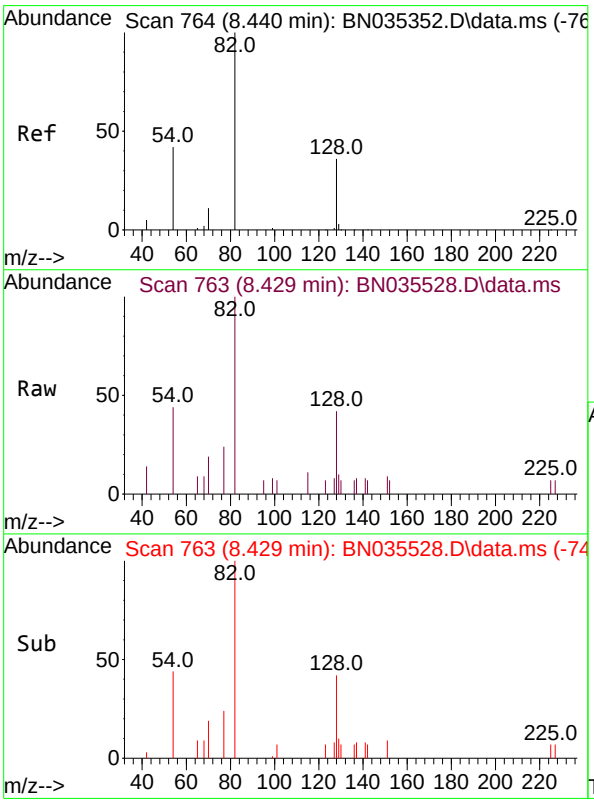
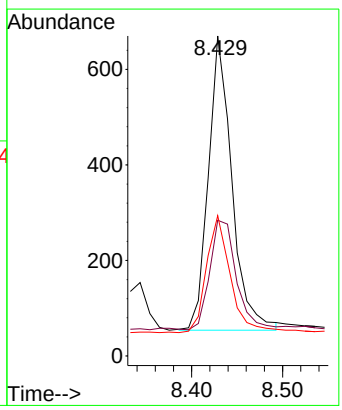
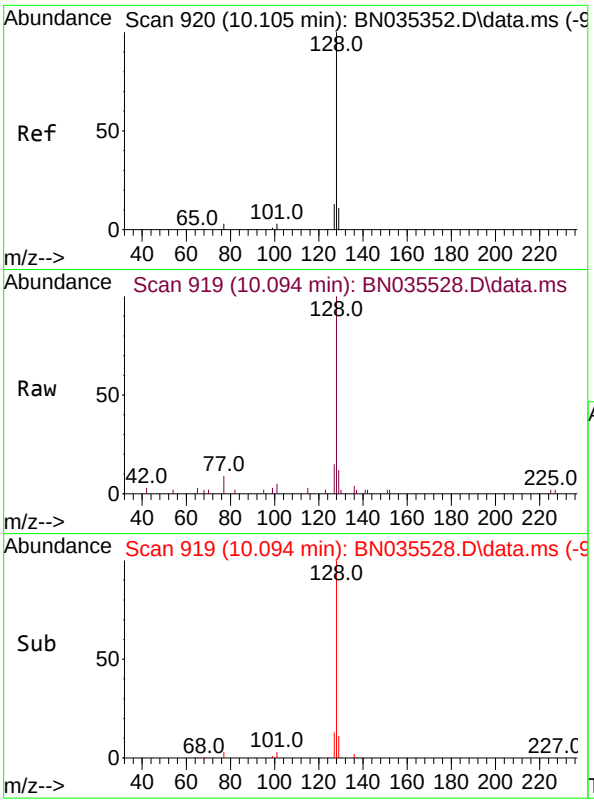


#8
Nitrobenzene-d5
Concen: 0.410 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 82 Resp: 1110

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	43.9	36.7	55.1

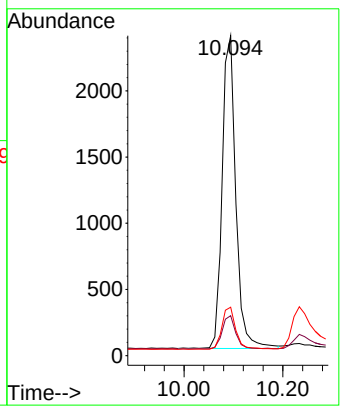




#9
Naphthalene
Concen: 0.388 ng
RT: 10.094 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:128 Resp: 452

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	15.1	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
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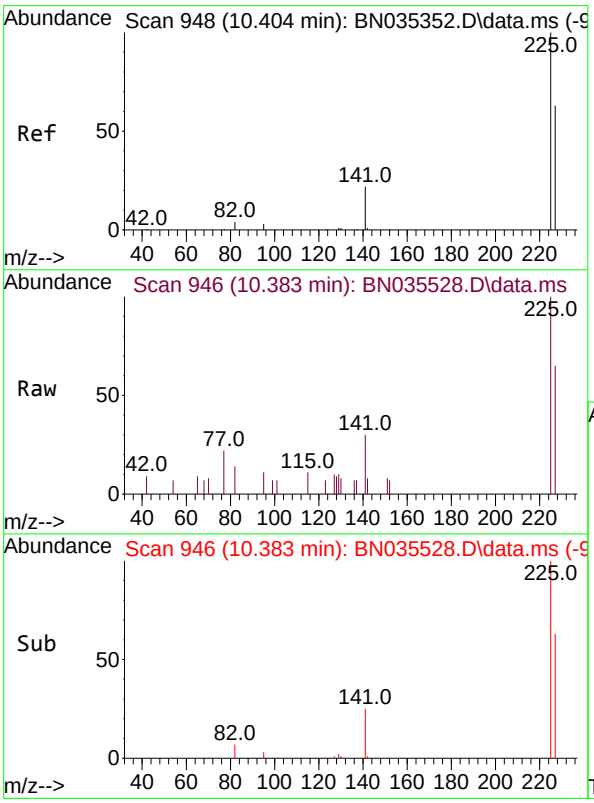
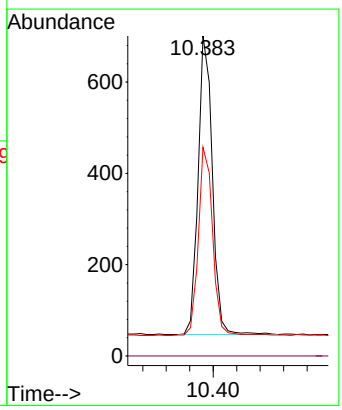
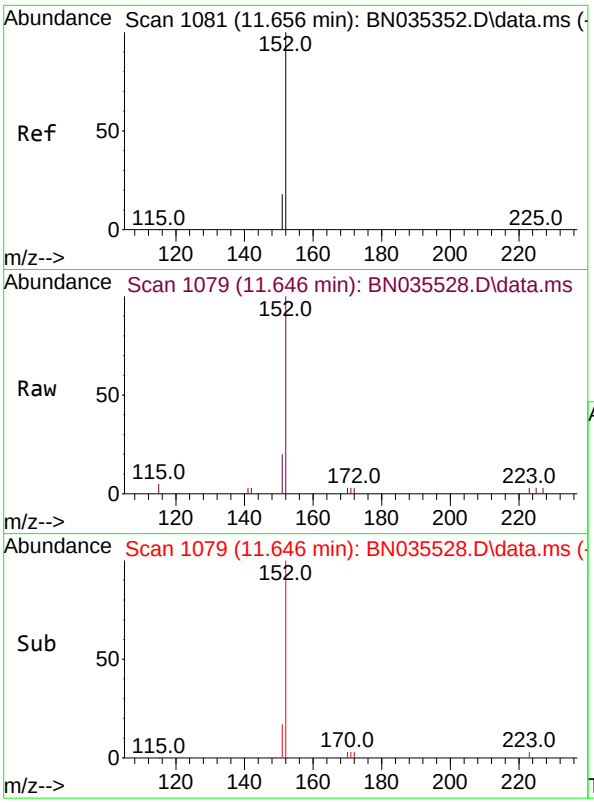


#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.022 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:225 Resp: 1103

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.534 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:152 Resp: 370

Ion	Ratio	Lower	Upper
152	100		
151	17.1	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
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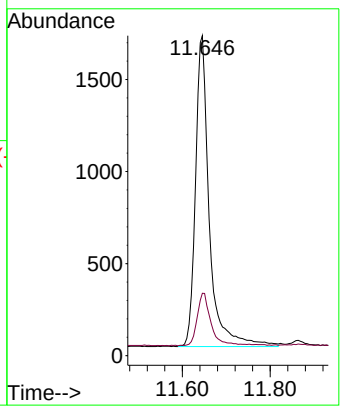
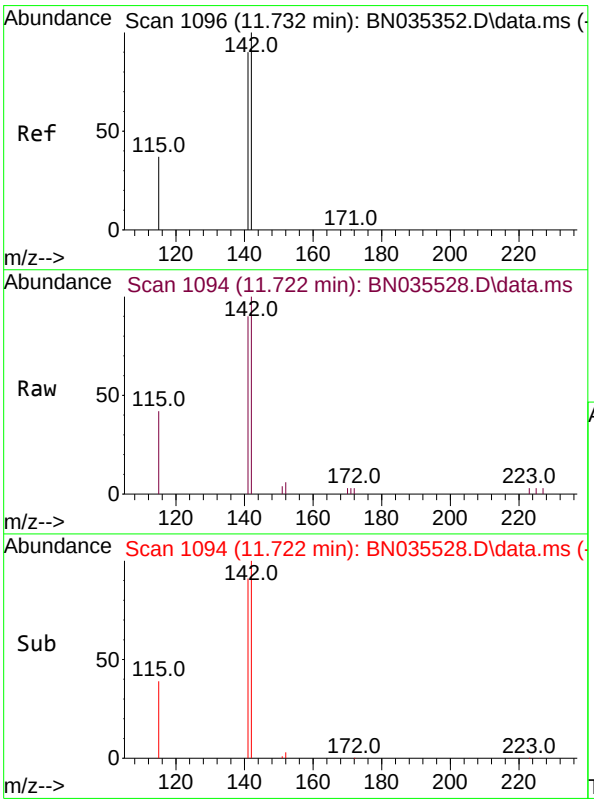
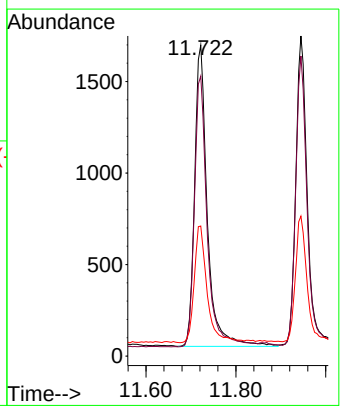


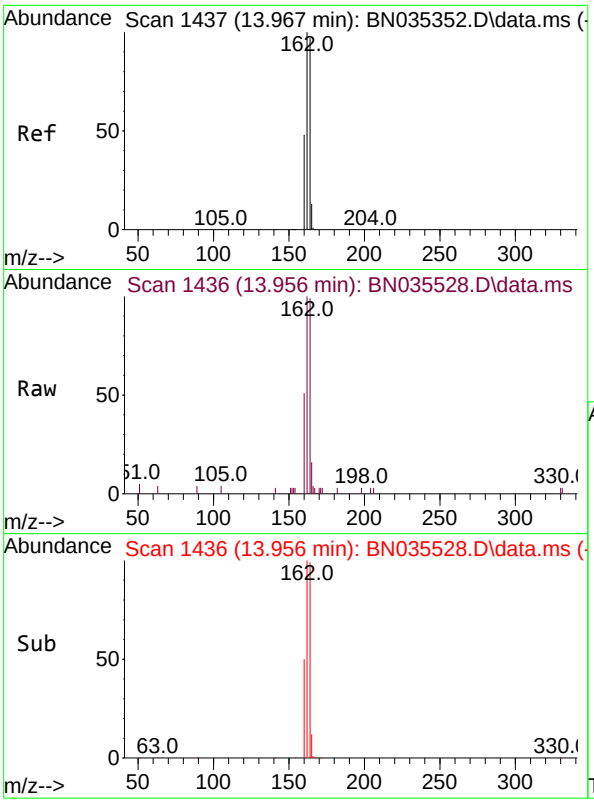


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:142 Resp: 3239

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	41.8	31.4	47.0

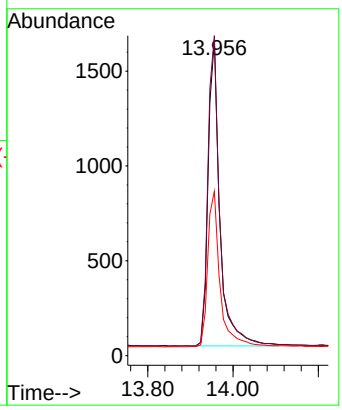




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:164 Resp: 309

Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.2	123.2
160	52.0	40.1	60.1



Instrument :
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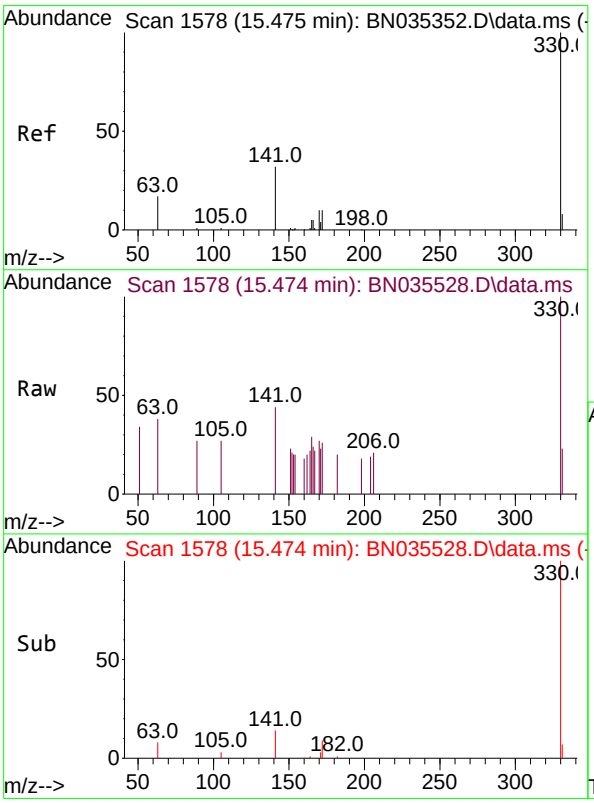
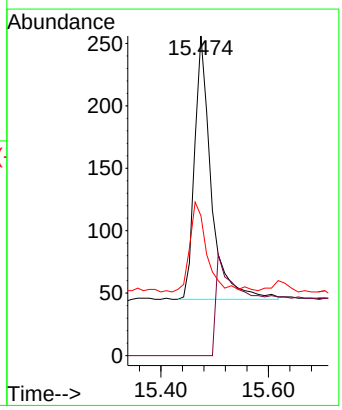
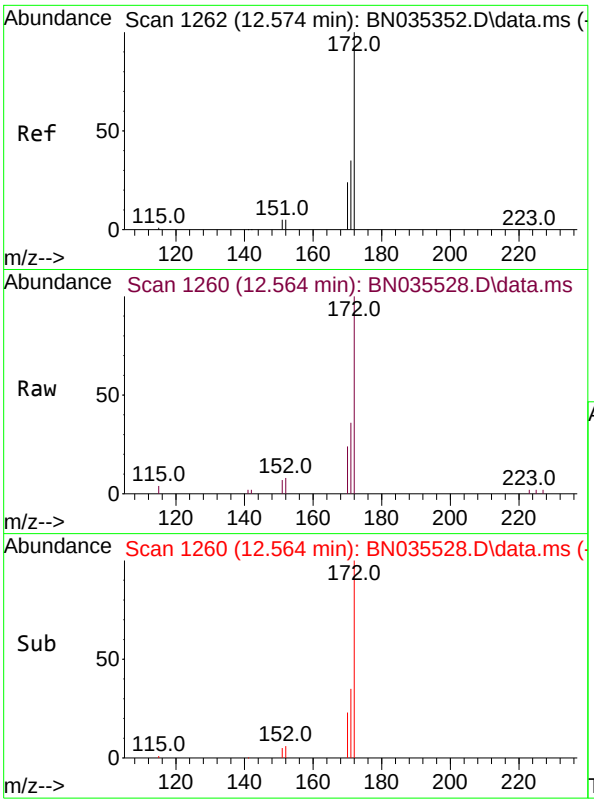


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.474 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:330 Resp: 487

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.9	26.6	40.0

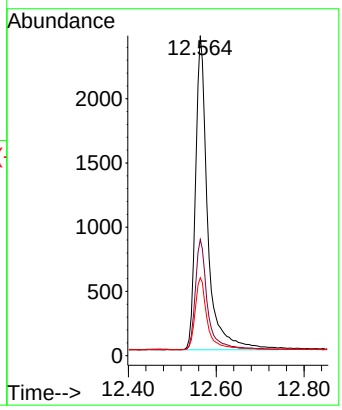




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:172 Resp: 471

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.4	19.8	29.8



Instrument :
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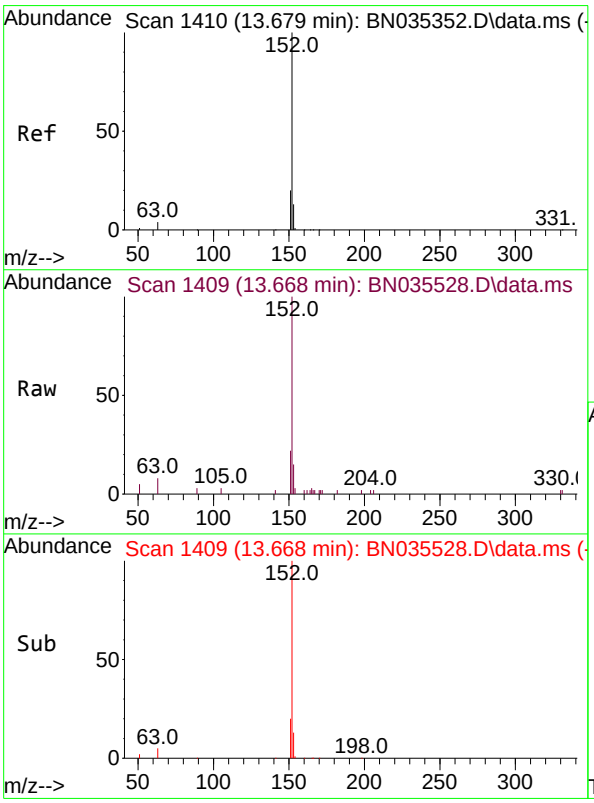
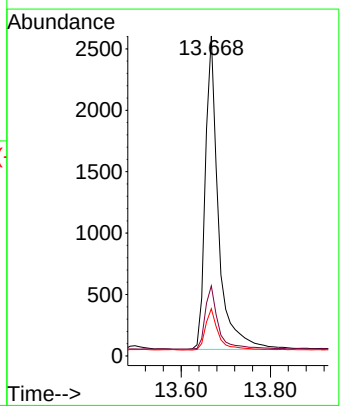
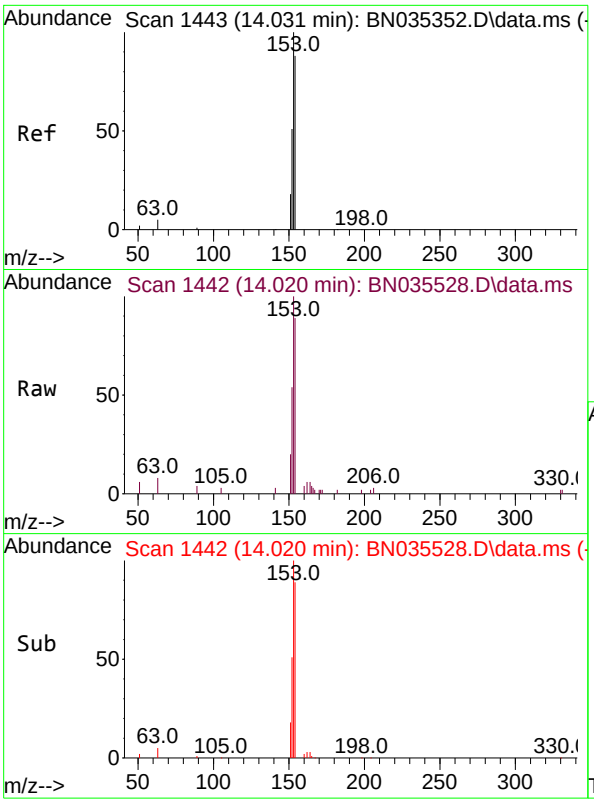


#16
Acenaphthylene
Concen: 0.400 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:152 Resp: 5188

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.1	10.4	15.6

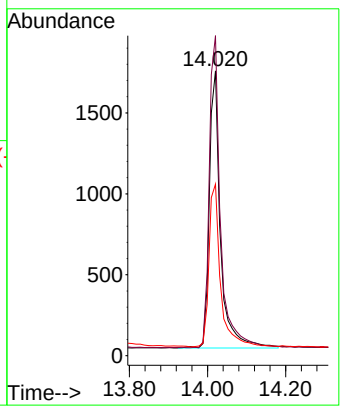




#17
Acenaphthene
Concen: 0.394 ng
RT: 14.020 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:154 Resp: 339

Ion	Ratio	Lower	Upper
154	100		
153	113.6	92.6	139.0
152	61.0	49.0	73.6



Instrument :
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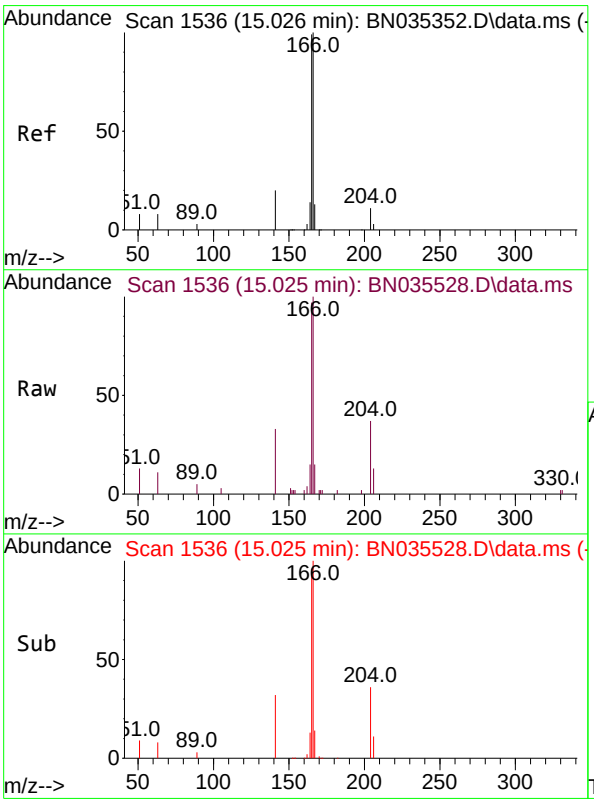
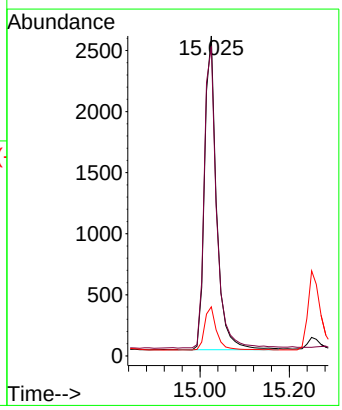
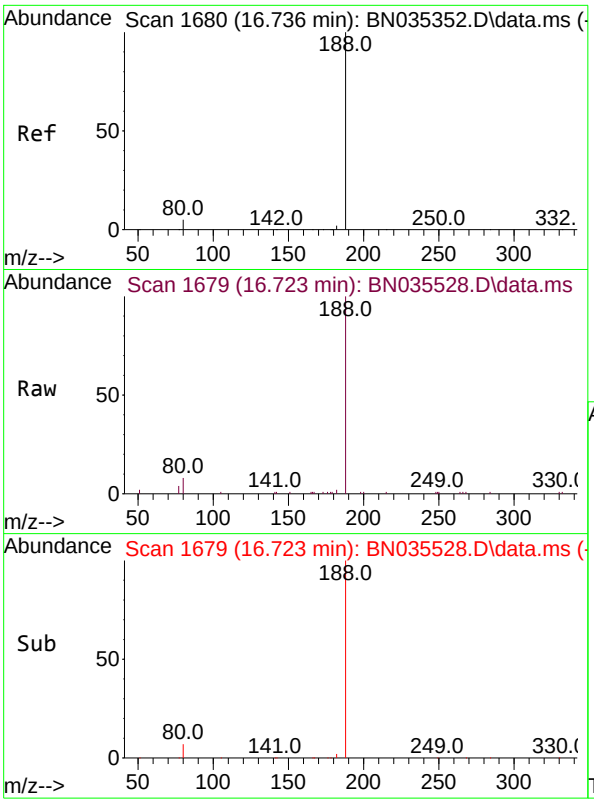


#18
Fluorene
Concen: 0.387 ng
RT: 15.025 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:166 Resp: 4774

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.7	10.8	16.2

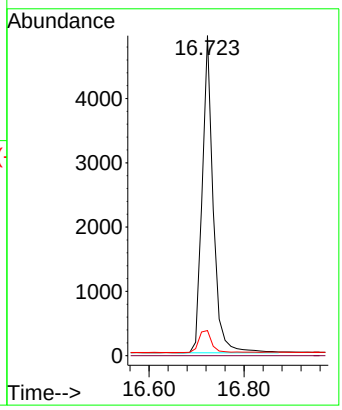




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:188 Resp: 795

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
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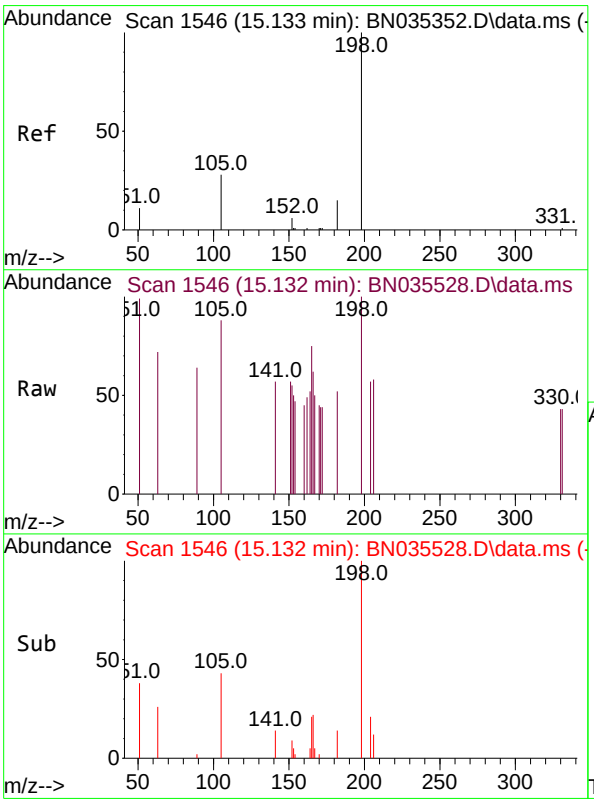
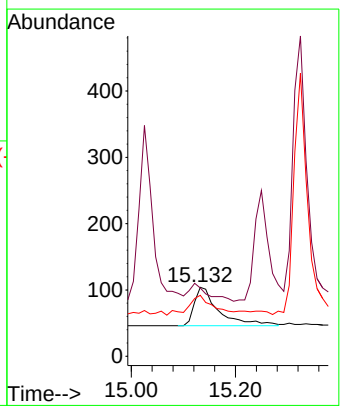
Supervised By :mohammad ahmed 12/11/2024

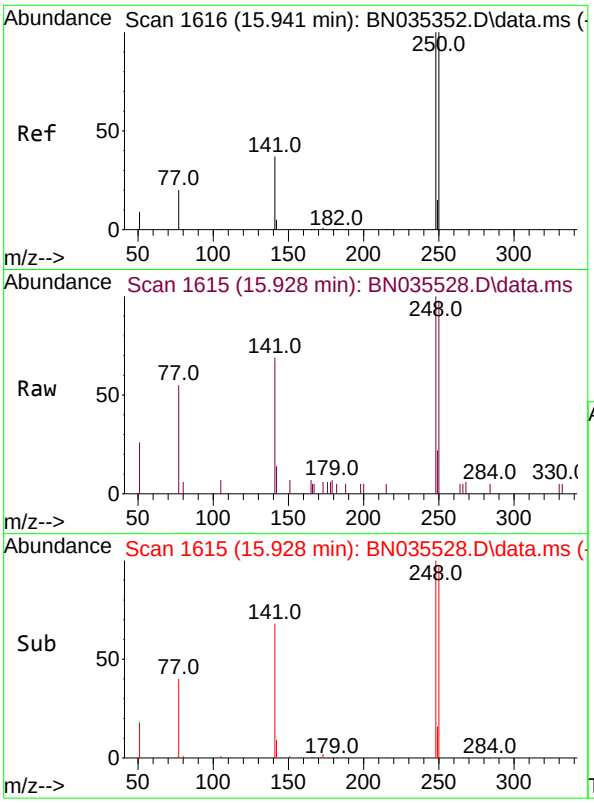


#20
4,6-Dinitro-2-methylphenol
Concen: 0.244 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:198 Resp: 191

Ion	Ratio	Lower	Upper
198	100		
51	99.0	46.5	69.7#
105	88.5	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 15.928 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:248 Resp: 168(

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	69.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
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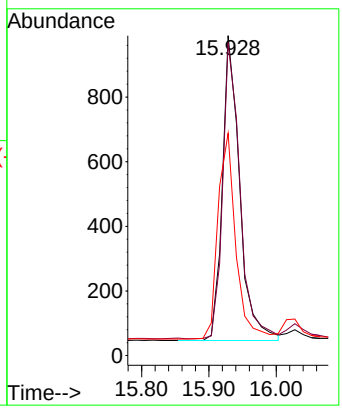
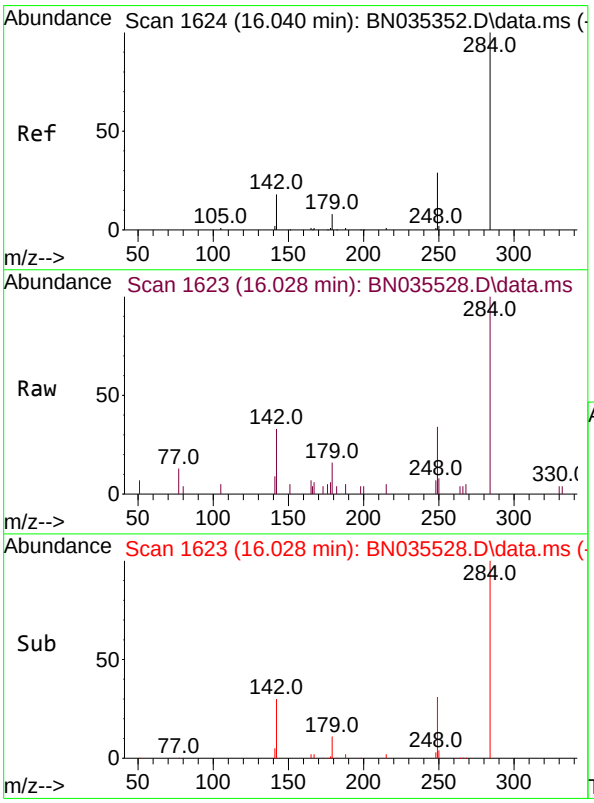
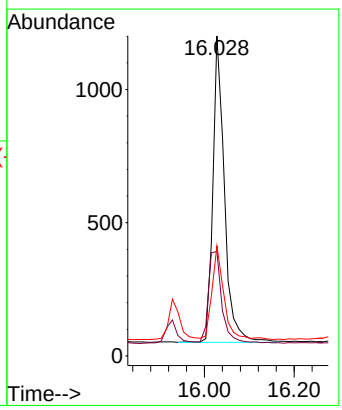


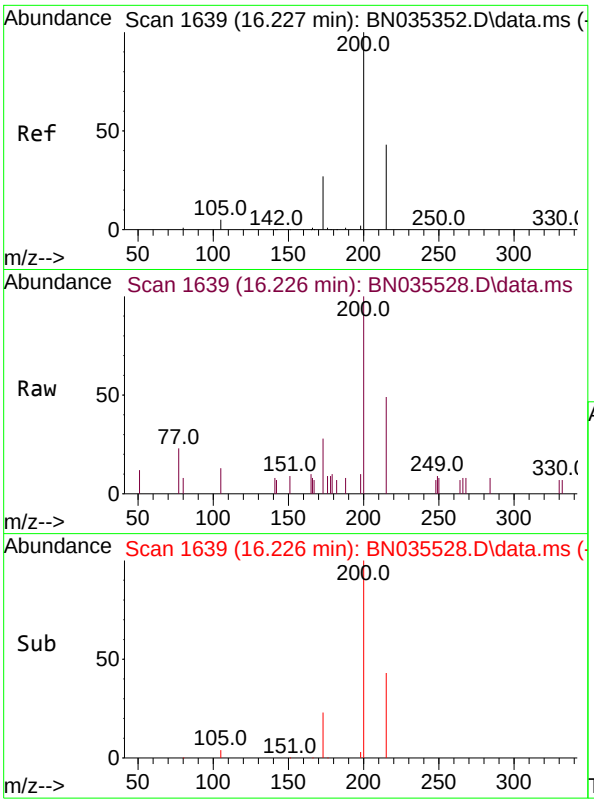


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:284 Resp: 2050

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	31.3	24.6	36.8

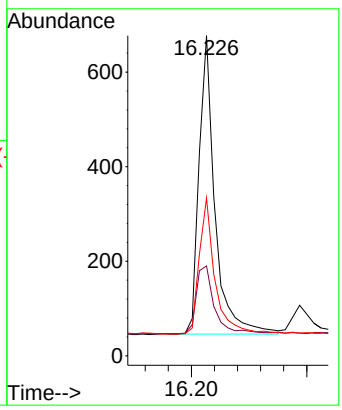




#23
Atrazine
Concen: 0.365 ng
RT: 16.226 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:200 Resp: 121(

Ion	Ratio	Lower	Upper
200	100		
173	28.1	24.1	36.1
215	49.3	36.9	55.3



Instrument :
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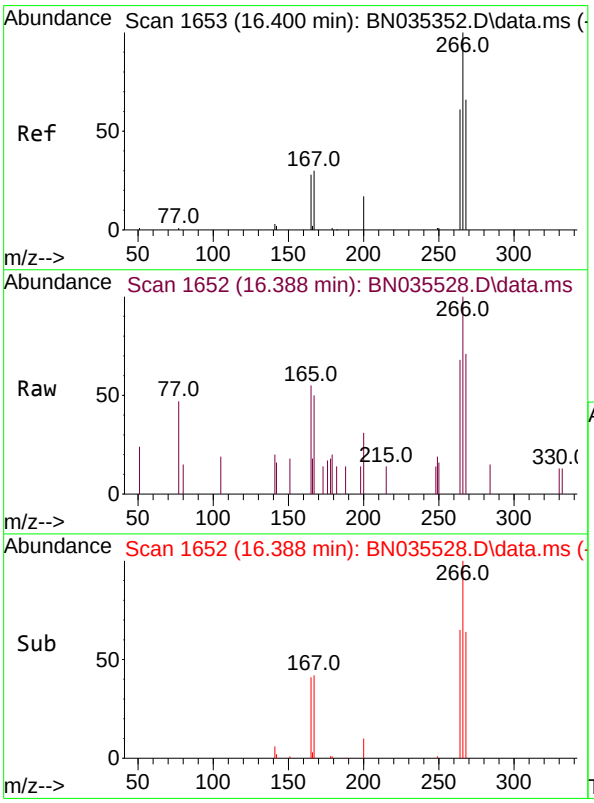
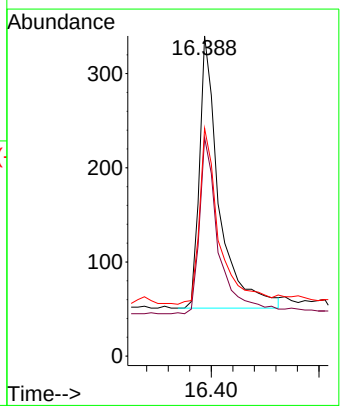
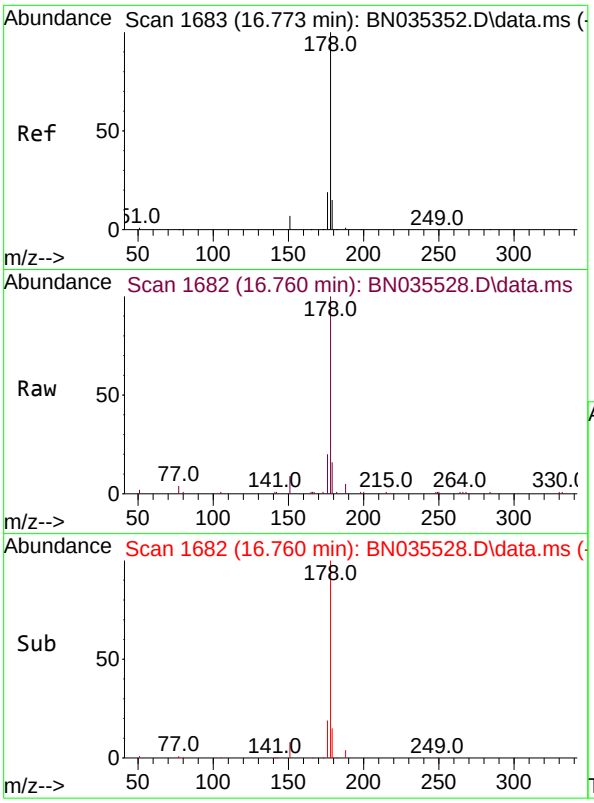


#24
Pentachlorophenol
Concen: 0.307 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:266 Resp: 731

Ion	Ratio	Lower	Upper
266	100		
264	63.5	42.3	63.5
268	65.0	43.3	64.9#

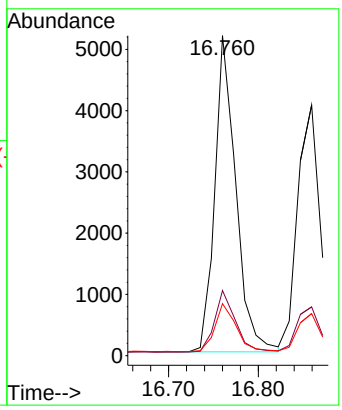




#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:178 Resp: 842

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5



Instrument :
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ClientSampleId :
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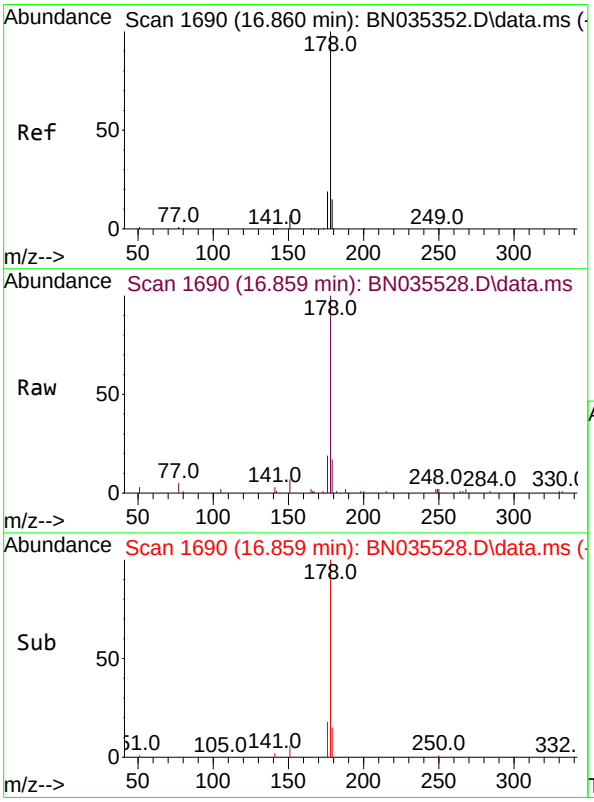
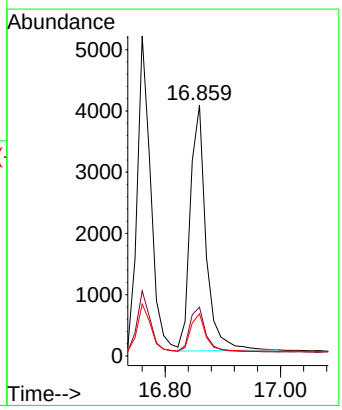
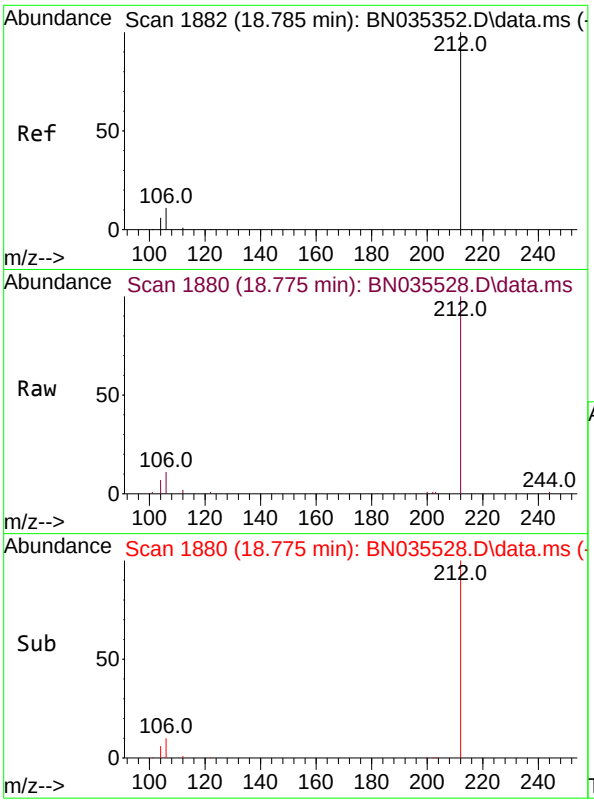


#26
Anthracene
Concen: 0.384 ng
RT: 16.859 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:178 Resp: 7595

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8

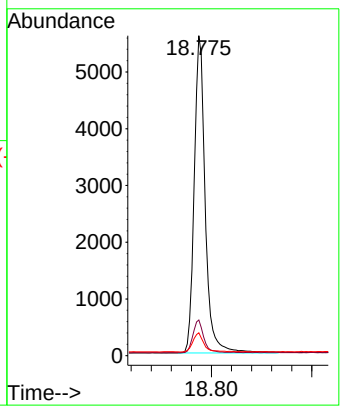




#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:212 Resp: 850

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	6.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
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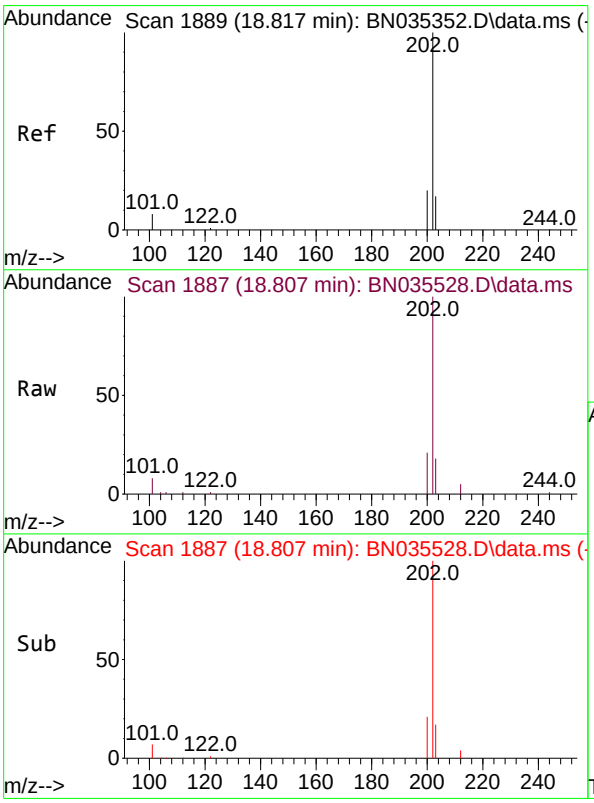
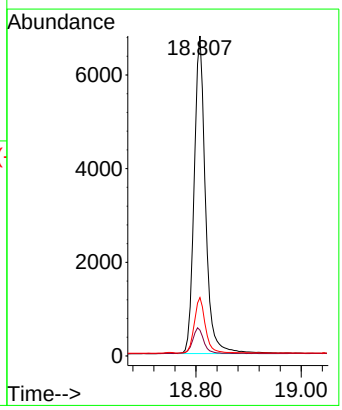
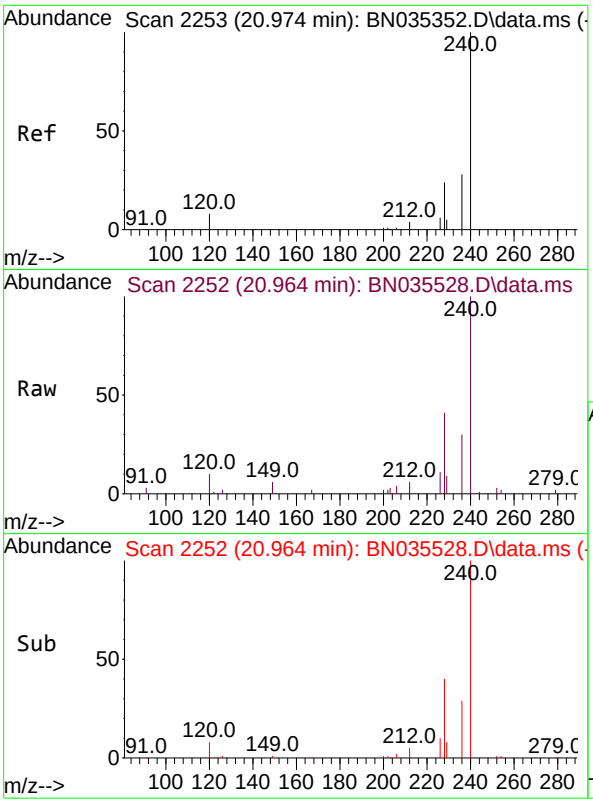


#28
Fluoranthene
Concen: 0.344 ng
RT: 18.807 min Scan# 1887
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:202 Resp: 10125

Ion	Ratio	Lower	Upper
202	100		
101	7.8	7.4	11.0
203	17.1	13.7	20.5

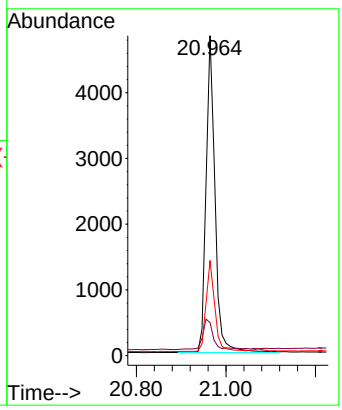




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.964 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:240 Resp: 669

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.9	11.9
236	29.7	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
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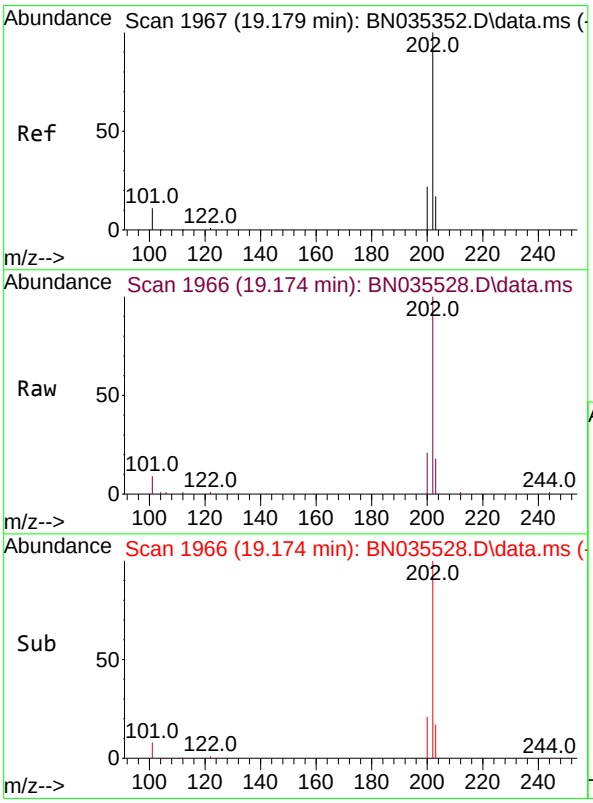
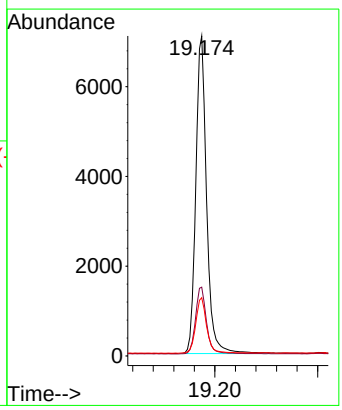
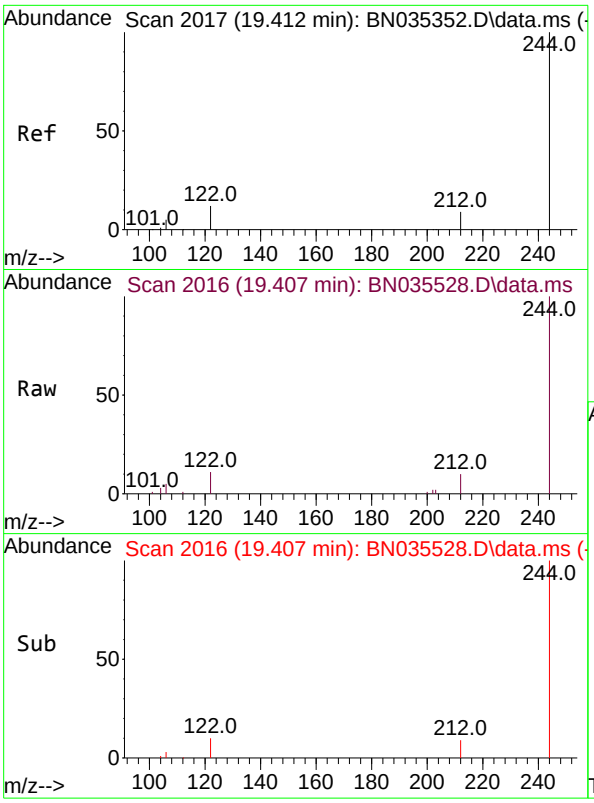


#30
Pyrene
Concen: 0.421 ng
RT: 19.174 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:202 Resp: 10396

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5

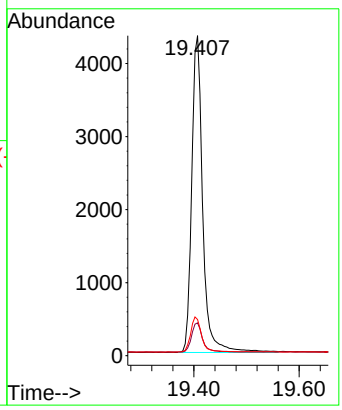




#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:244 Resp: 628

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.3	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165497BS

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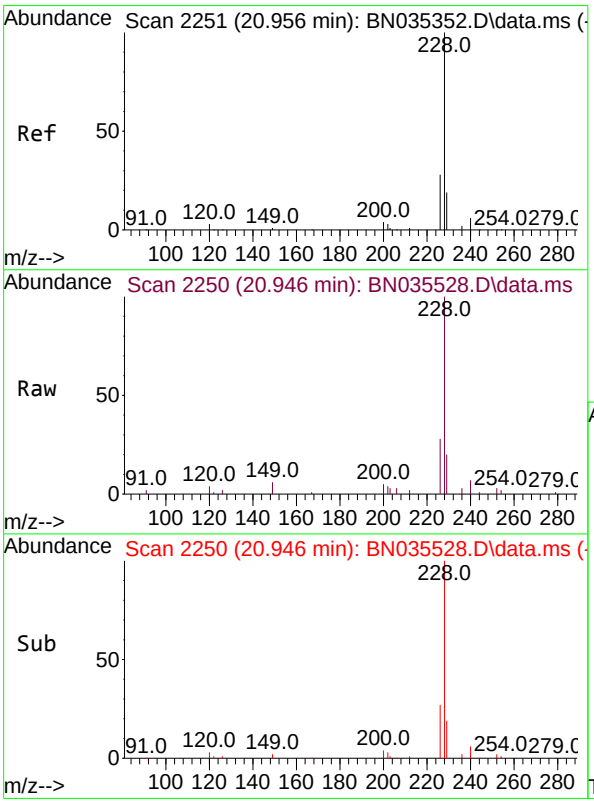
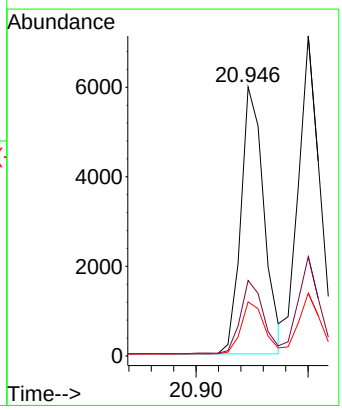
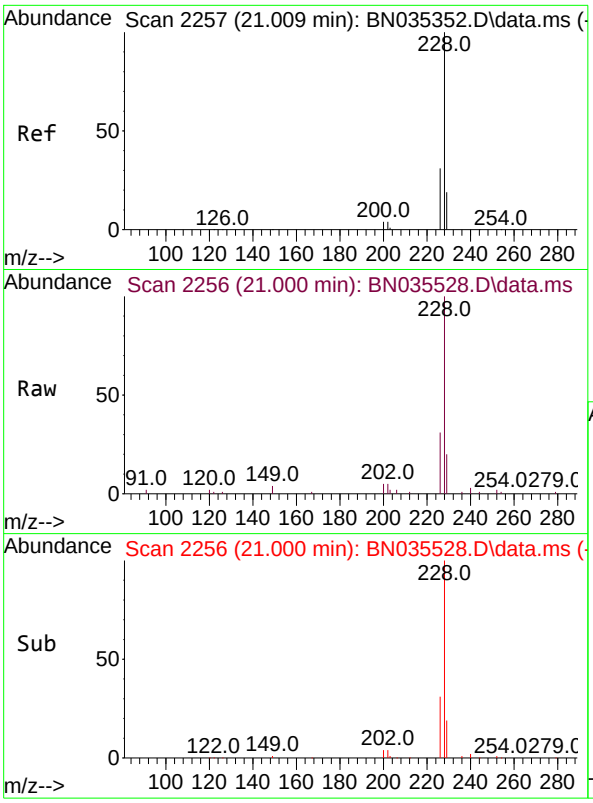


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.946 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:228 Resp: 8539

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.1	15.8	23.8

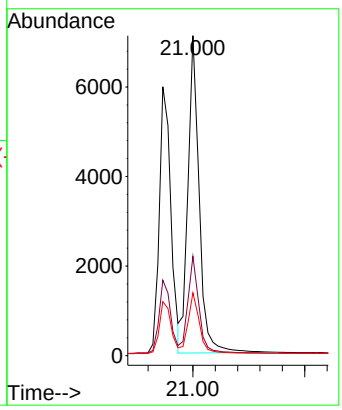




#33
Chrysene
Concen: 0.411 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:228 Resp: 992

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	19.7	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165497BS

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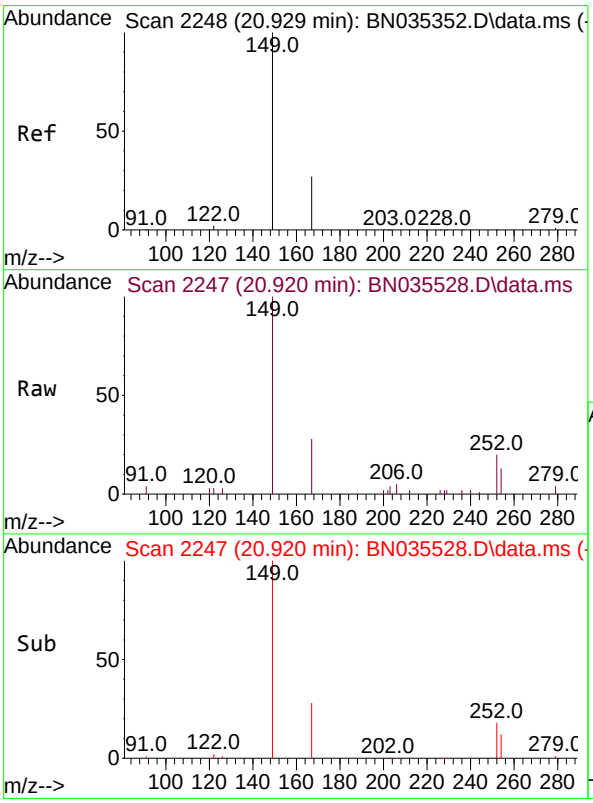
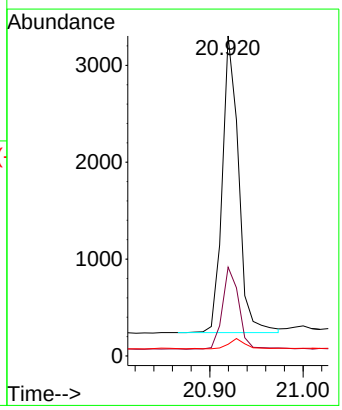
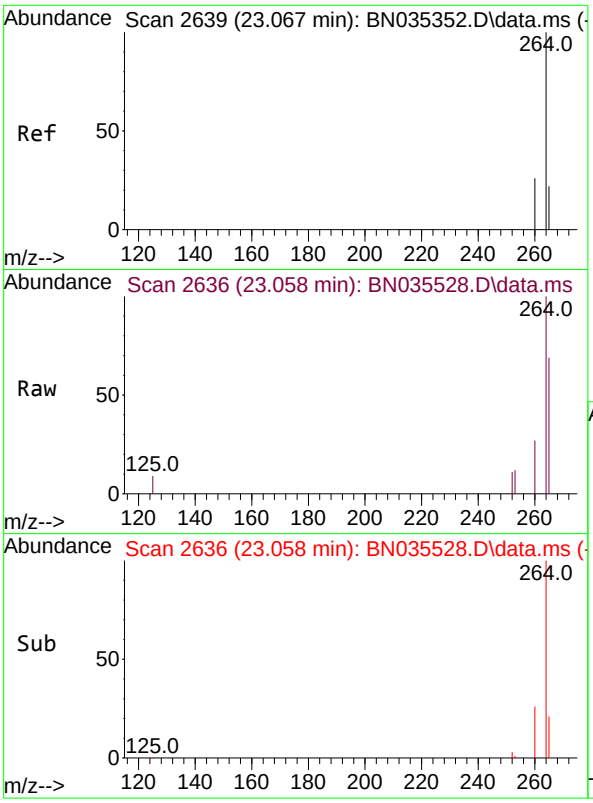


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:149 Resp: 3709

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.5	2.7	4.1

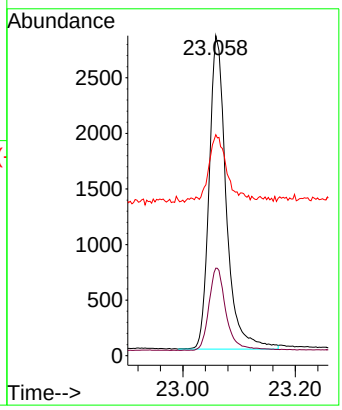




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.058 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:264 Resp: 594

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	69.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
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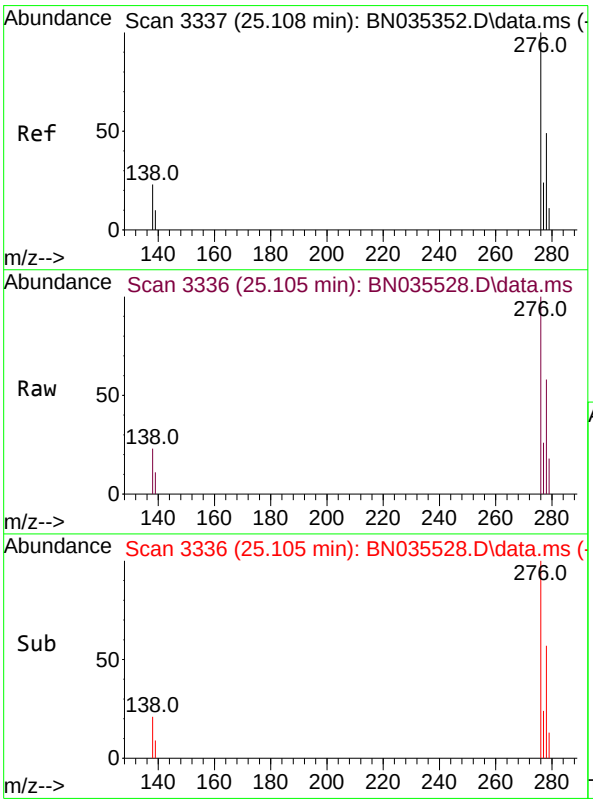
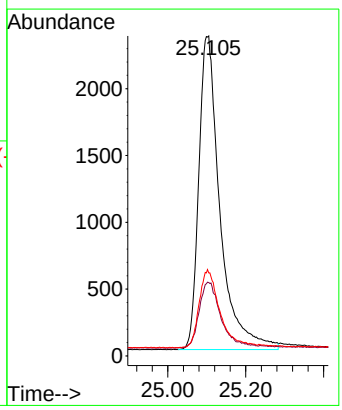
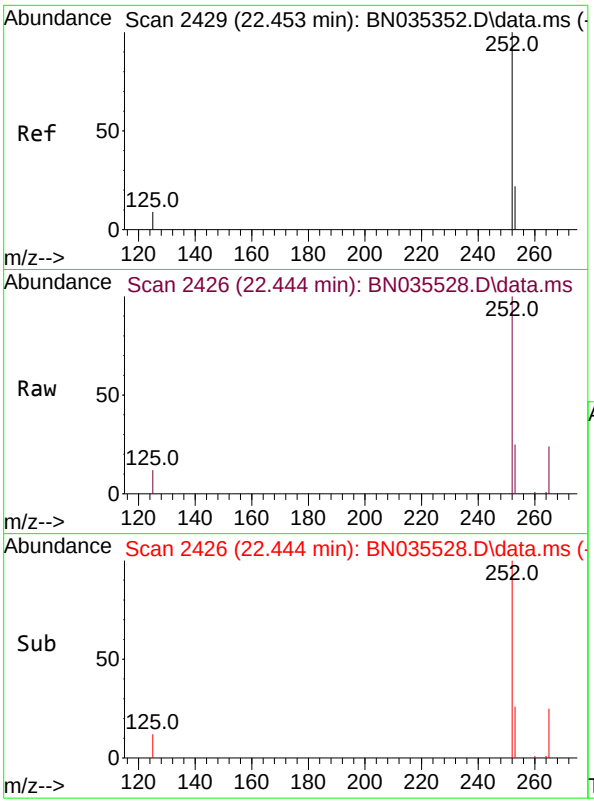


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:276 Resp: 8871

Ion	Ratio	Lower	Upper
276	100		
138	21.3	19.4	29.0
277	24.0	19.8	29.6

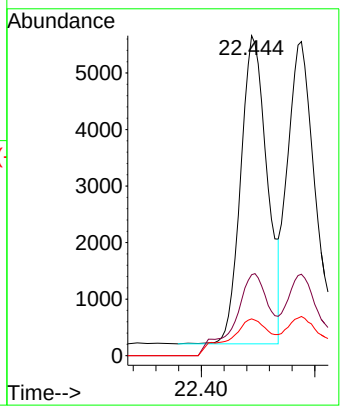




#37
Benzo(b)fluoranthene
Concen: 0.509 ng
RT: 22.444 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:252 Resp: 1107

Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.6	29.4
125	11.5	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165497BS

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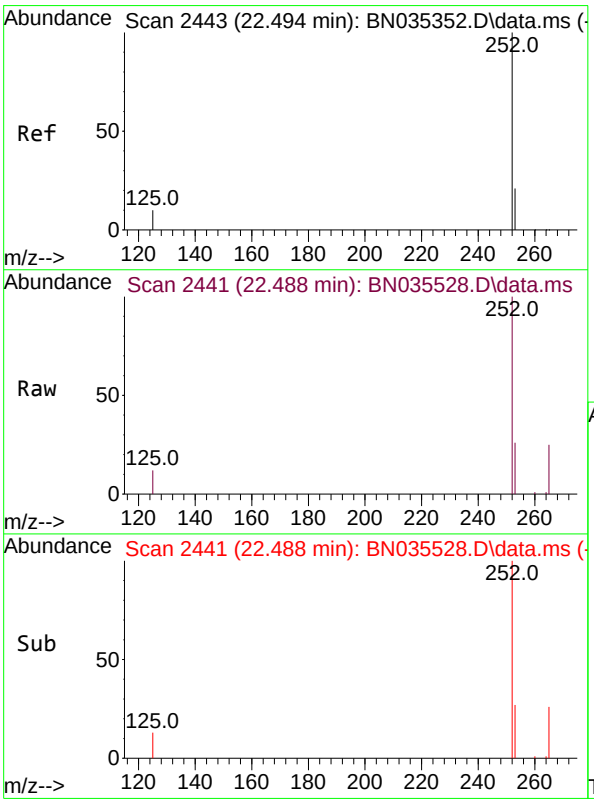
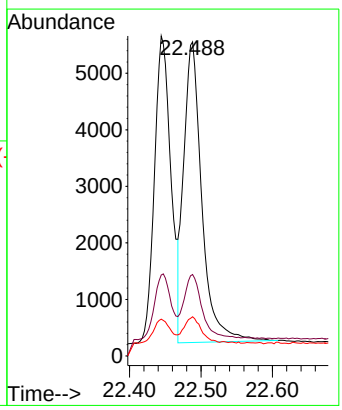
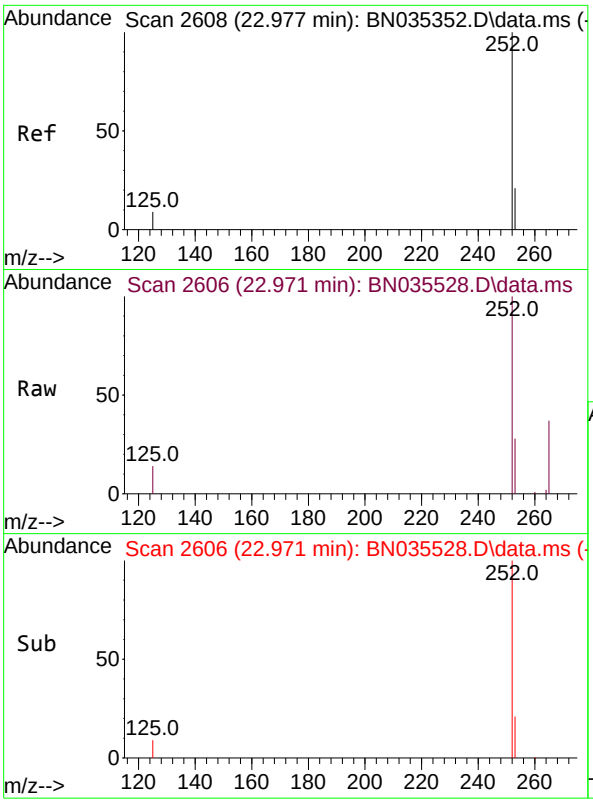


#38
Benzo(k)fluoranthene
Concen: 0.438 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:252 Resp: 9381

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	12.5	10.2	15.4

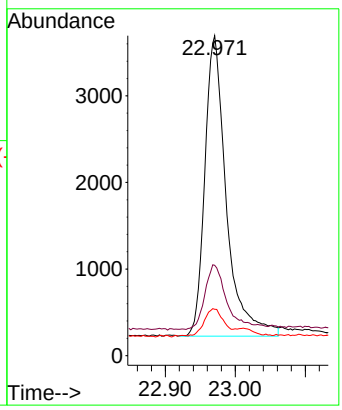




#39
Benzo(a)pyrene
Concen: 0.414 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:252 Resp: 741

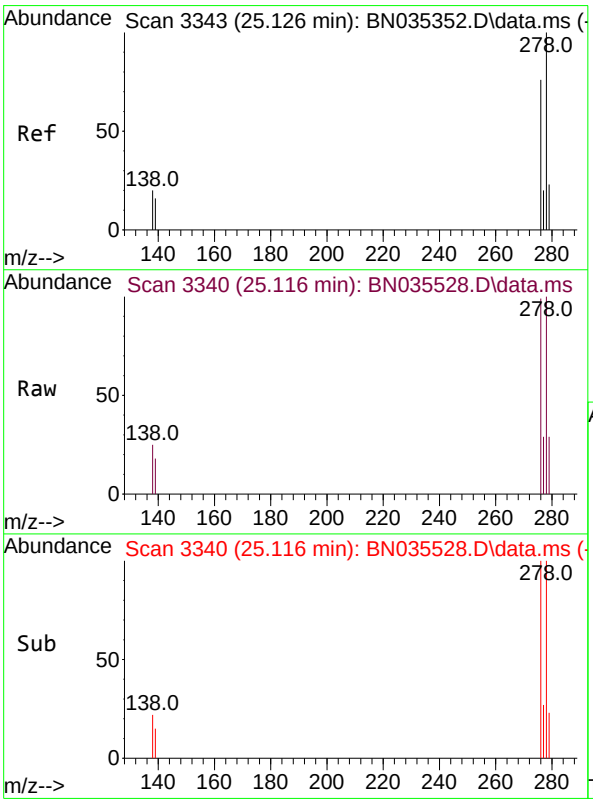
Ion	Ratio	Lower	Upper
252	100		
253	28.3	20.2	30.4
125	14.5	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165497BS

Manual Integrations
APPROVED

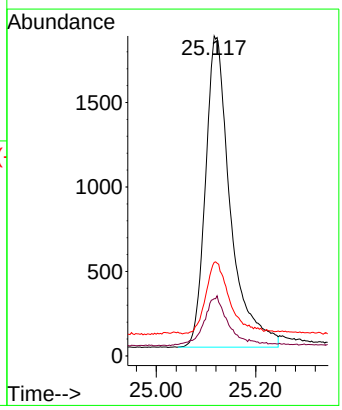
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

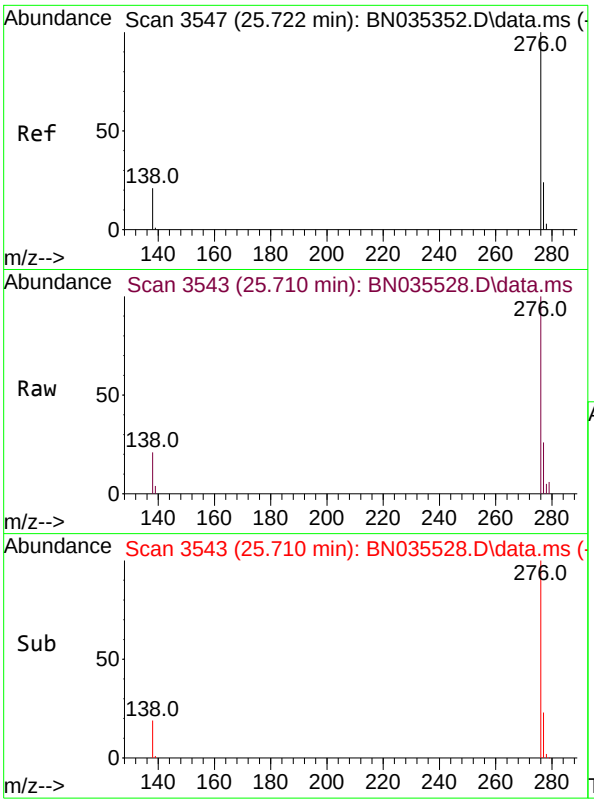


#40
Dibenzo(a,h)anthracene
Concen: 0.349 ng
RT: 25.116 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:278 Resp: 6401

Ion	Ratio	Lower	Upper
278	100		
139	17.9	14.2	21.4
279	29.3	20.5	30.7

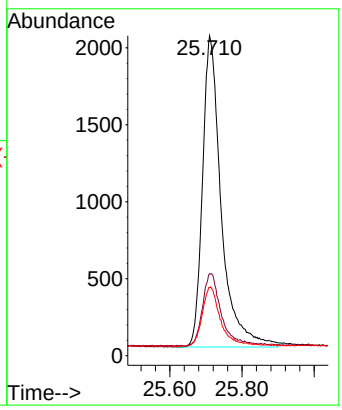




#41
Benzo(g,h,i)perylene
Concen: 0.381 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:276 Resp: 730

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165497BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Raw Data: **BN035529.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB165497BSD	SDG No.:	P5166
Lab Sample ID:	PB165497BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035529.D	1	12/09/24 11:27	12/10/24 12:03	PB165497

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		133%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.43		55 - 111		107%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1940	7.293				
1146-65-2	Naphthalene-d8	5150	10.041				
15067-26-2	Acenaphthene-d10	3670	13.957				
1517-22-2	Phenanthrene-d10	9300	16.723				
1719-03-5	Chrysene-d12	7540	20.965				
1520-96-3	Perylene-d12	6740	23.062				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035529.D
Acq On : 10 Dec 2024 12:03
Operator : RC/JU
Sample : PB165497BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

Quant Time: Dec 10 12:29:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.293	152	1941	0.400	ng		-0.01
7) Naphthalene-d8	10.041	136	5150	0.400	ng		#-0.01
13) Acenaphthene-d10	13.957	164	3668	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	9298	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	7541	0.400	ng		# 0.00
35) Perylene-d12	23.062	264	6738	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	1717	0.353	ng		-0.01
5) Phenol-d6	6.499	99	2115	0.362	ng		-0.01
8) Nitrobenzene-d5	8.429	82	1343m	0.427	ng		-0.01
11) 2-Methylnaphthalene-d10	11.641	152	4295	0.533	ng		-0.02
14) 2,4,6-Tribromophenol	15.475	330	578	0.222	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	5507	0.397	ng		-0.01
27) Fluoranthene-d10	18.775	212	9641	0.366	ng		0.00
31) Terphenyl-d14	19.407	244	7098	0.477	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.989	88	647	0.349	ng	#	56
3) n-Nitrosodimethylamine	3.285	42	661	0.428	ng	#	94
6) bis(2-Chloroethyl)ether	6.744	93	1900	0.387	ng		99
9) Naphthalene	10.084	128	5241	0.386	ng		99
10) Hexachlorobutadiene	10.383	225	1268	0.405	ng	#	98
12) 2-Methylnaphthalene	11.717	142	3778	0.388	ng		98
16) Acenaphthylene	13.668	152	6063	0.394	ng		99
17) Acenaphthene	14.021	154	4005	0.392	ng		100
18) Fluorene	15.026	166	5751	0.393	ng		99
20) 4,6-Dinitro-2-methylph...	15.133	198	209	0.229	ng	#	59
21) 4-Bromophenyl-phenylether	15.929	248	2020	0.371	ng	#	83
22) Hexachlorobenzene	16.028	284	2497	0.391	ng		98
23) Atrazine	16.227	200	1417	0.366	ng		95
24) Pentachlorophenol	16.388	266	914	0.329	ng		89
25) Phenanthrene	16.760	178	9843	0.385	ng		100
26) Anthracene	16.860	178	8899	0.385	ng		99
28) Fluoranthene	18.808	202	11483	0.334	ng		98
30) Pyrene	19.175	202	11774	0.423	ng		100
32) Benzo(a)anthracene	20.956	228	10084	0.382	ng		99
33) Chrysene	21.001	228	10858	0.399	ng		99
34) Bis(2-ethylhexyl)phtha...	20.920	149	4232	0.406	ng		99
36) Indeno(1,2,3-cd)pyrene	25.102	276	9995	0.379	ng		96
37) Benzo(b)fluoranthene	22.450	252	11361	0.461	ng		98
38) Benzo(k)fluoranthene	22.491	252	10907	0.450	ng		97
39) Benzo(a)pyrene	22.971	252	8432	0.415	ng		97
40) Dibenzo(a,h)anthracene	25.126	278	7420	0.357	ng		96
41) Benzo(g,h,i)perylene	25.713	276	8161	0.376	ng		98

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

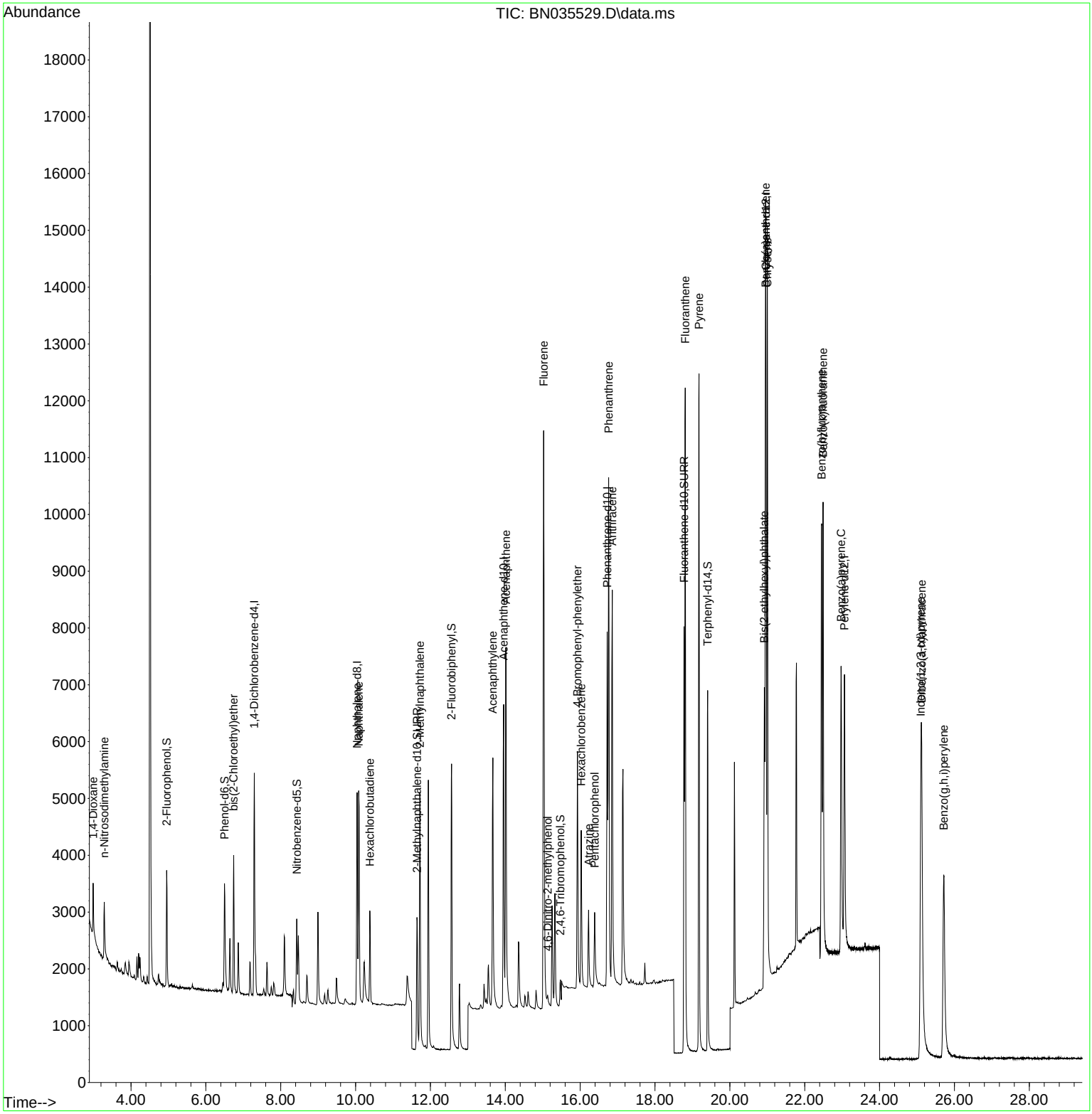
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035529.D
Acq On : 10 Dec 2024 12:03
Operator : RC/JU
Sample : PB165497BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

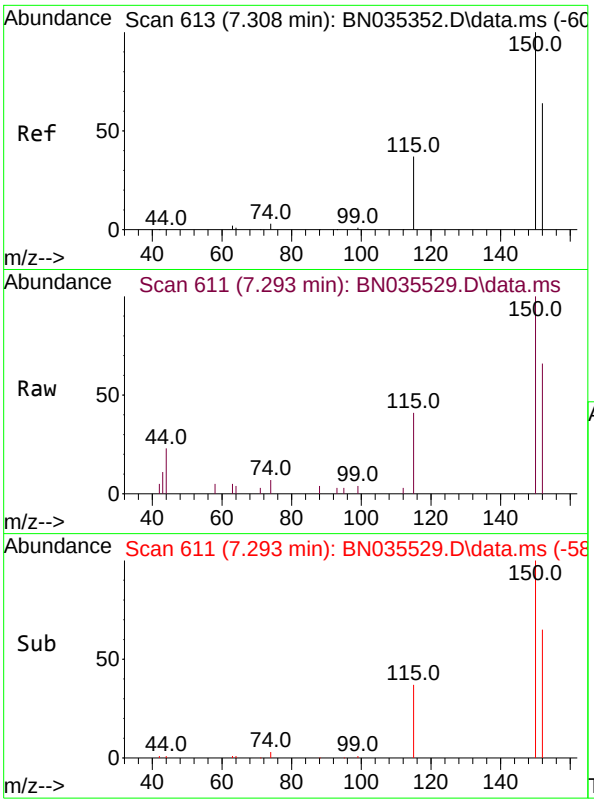
Quant Time: Dec 10 12:29:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

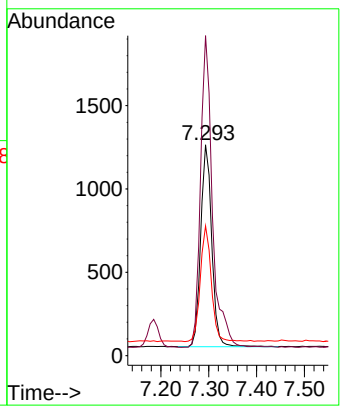




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:152 Resp: 194

Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.0	186.0
115	61.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
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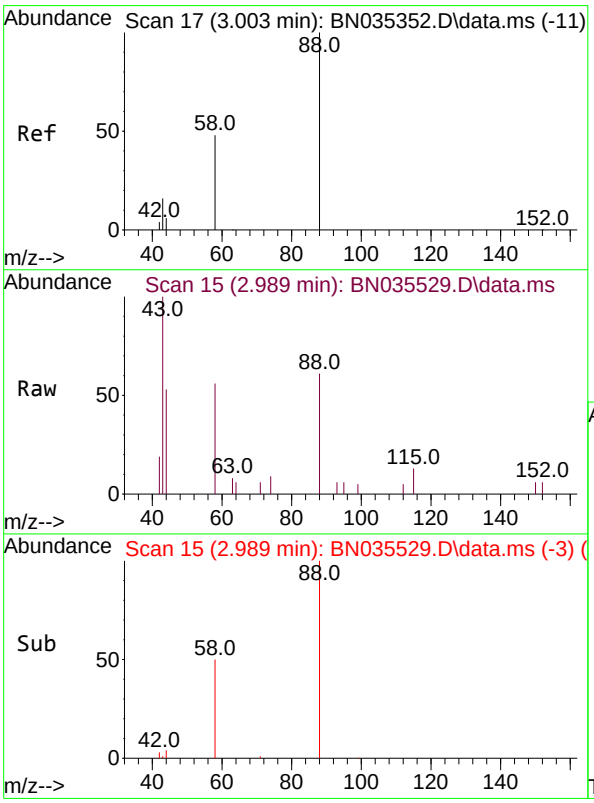
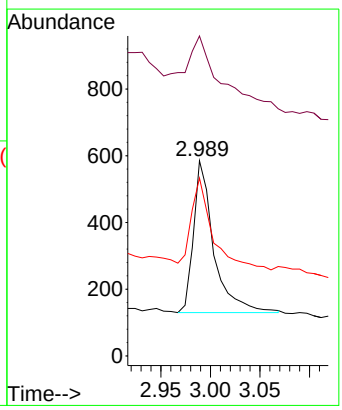
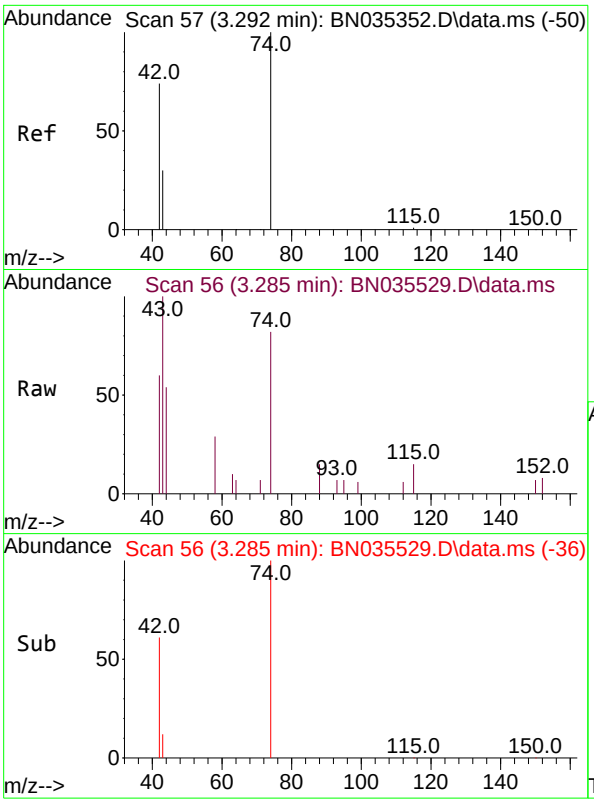


#2
1,4-Dioxane
Concen: 0.349 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 88 Resp: 647

Ion	Ratio	Lower	Upper
88	100		
43	81.6	17.2	25.8#
58	63.8	44.5	66.7

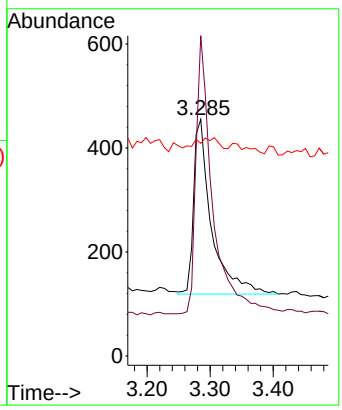




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 42 Resp: 66

Ion	Ratio	Lower	Upper
42	100		
74	148.9	124.9	187.3
44	0.0	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

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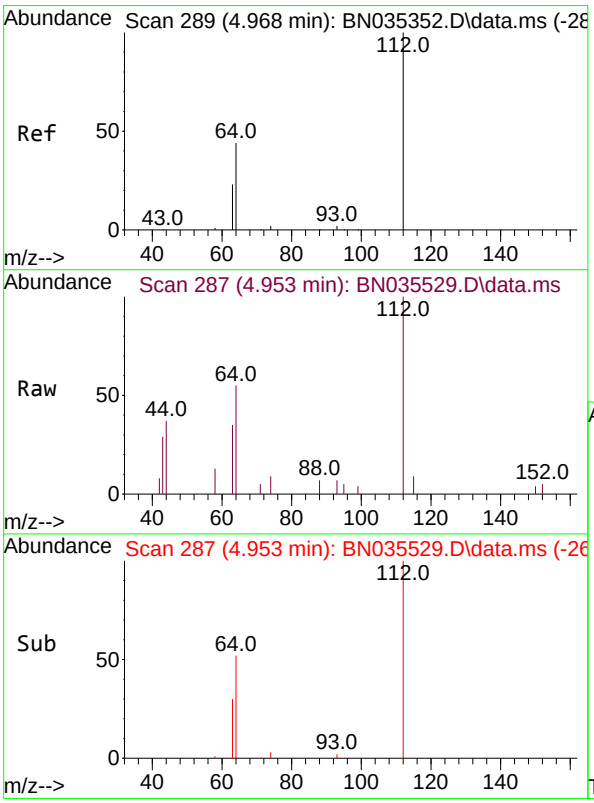
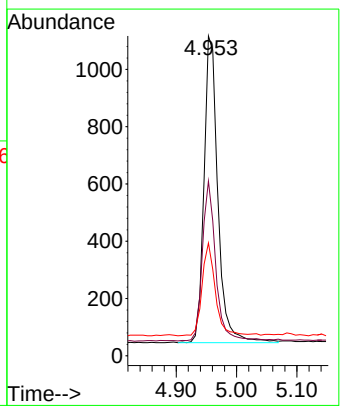
Supervised By :mohammad ahmed 12/11/2024

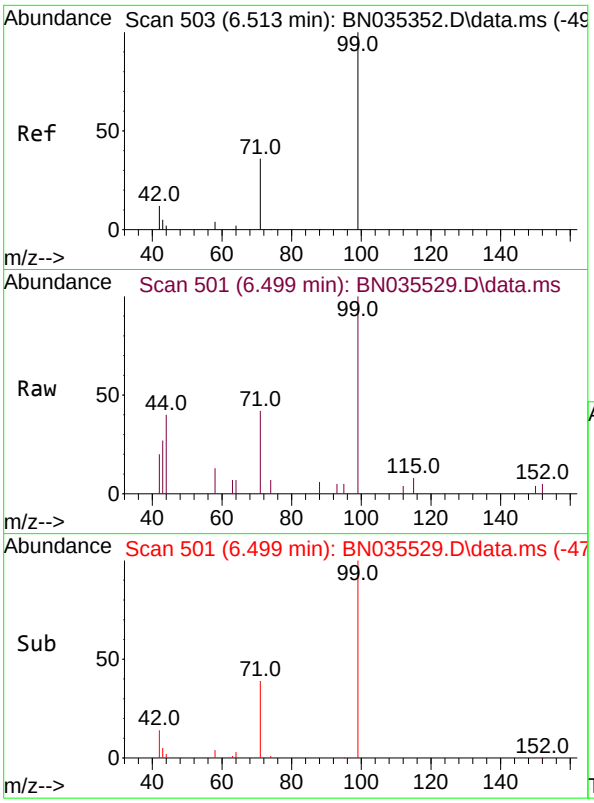


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:112 Resp: 1717

Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.8	59.8
63	28.9	21.0	31.6

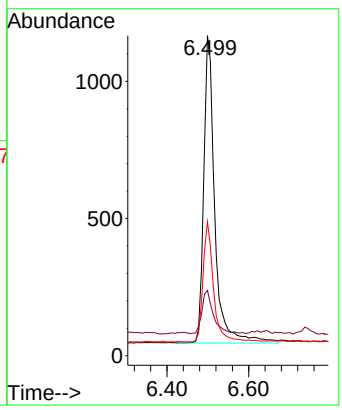




#5
Phenol-d6
Concen: 0.362 ng
RT: 6.499 min Scan# 5(
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 99 Resp: 211

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
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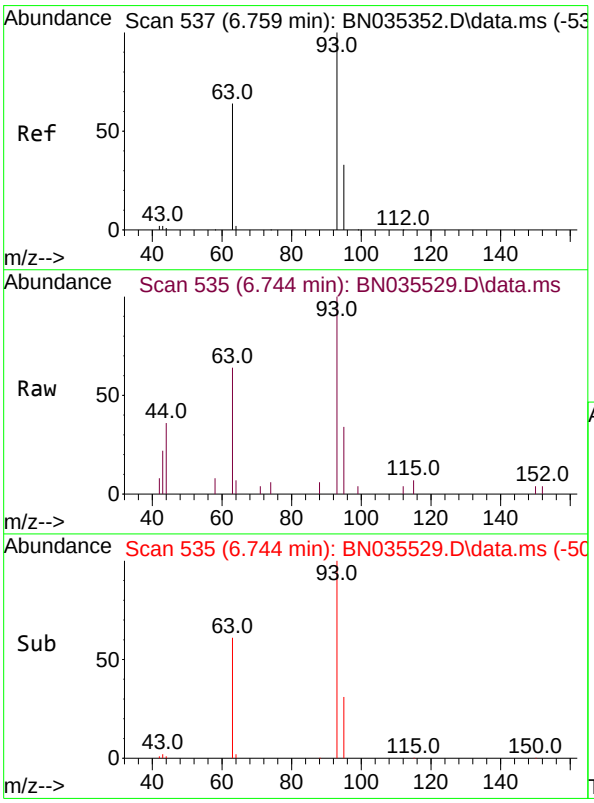
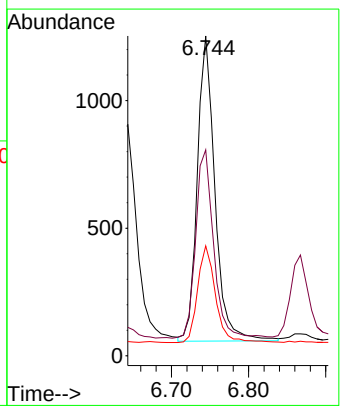
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

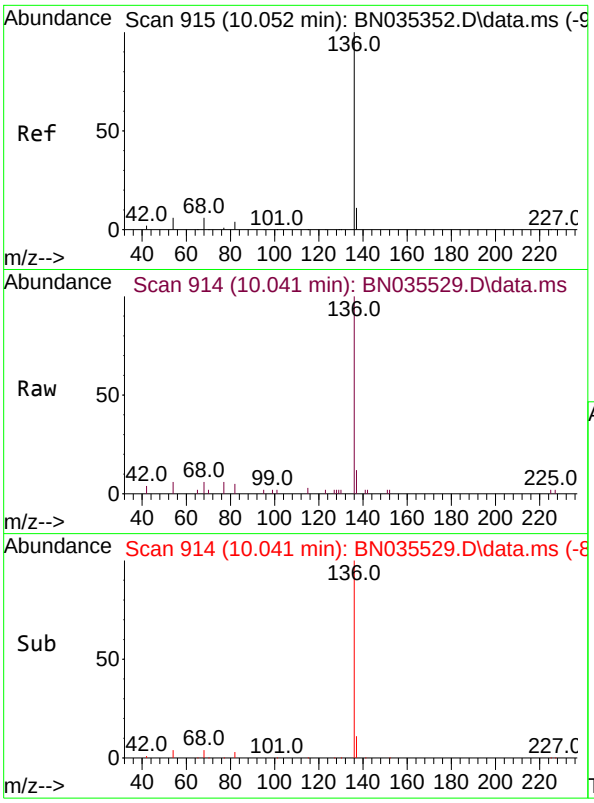


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 93 Resp: 1900

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	32.2	25.7	38.5

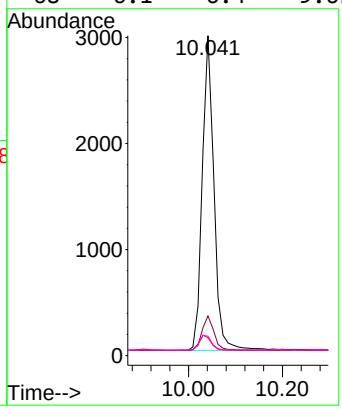




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:136 Resp: 515

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	5.6	6.1	9.1#
68	6.1	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
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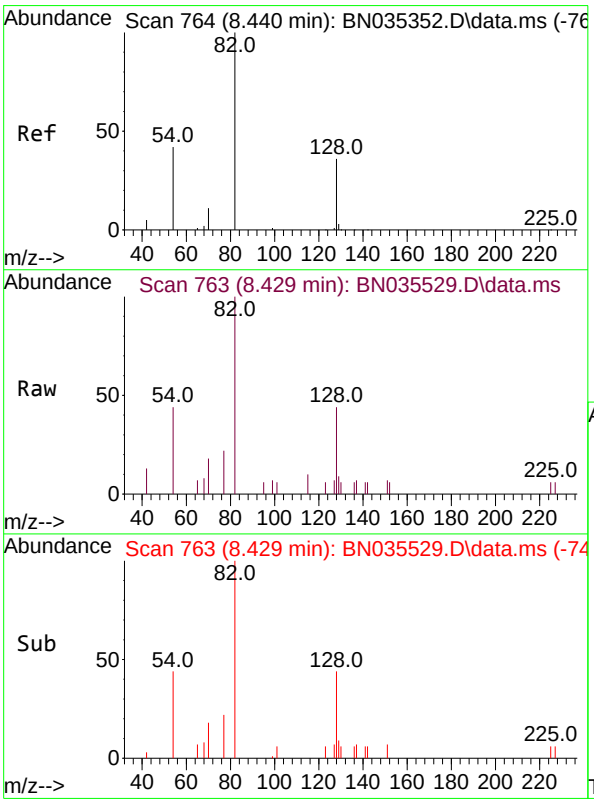
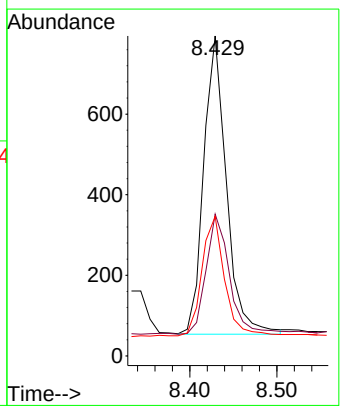
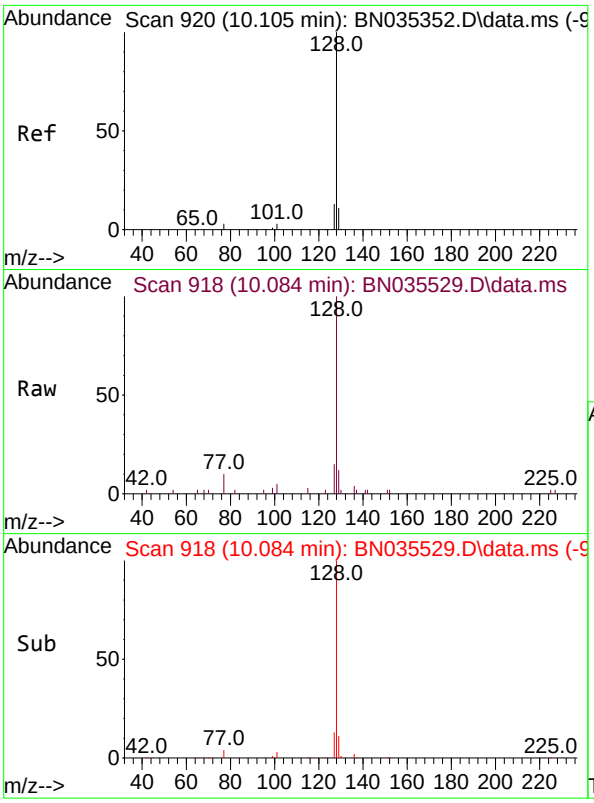


#8
Nitrobenzene-d5
Concen: 0.427 ng m
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 82 Resp: 1343

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.4	50.0
54	43.6	36.7	55.1

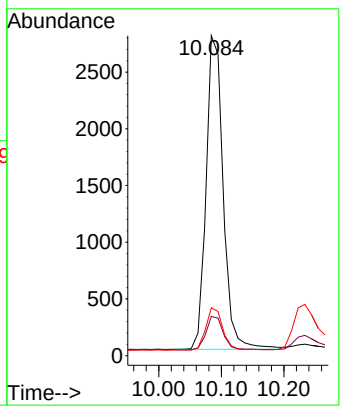




#9
Naphthalene
Concen: 0.386 ng
RT: 10.084 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:128 Resp: 524

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
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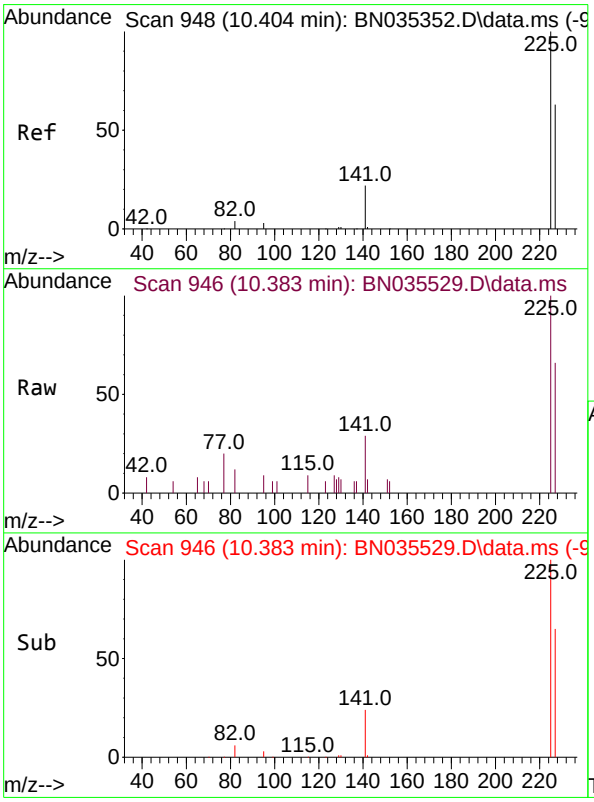
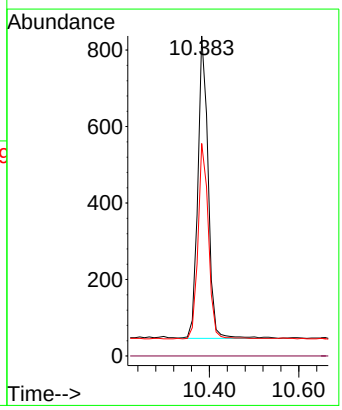
Supervised By :mohammad ahmed 12/11/2024

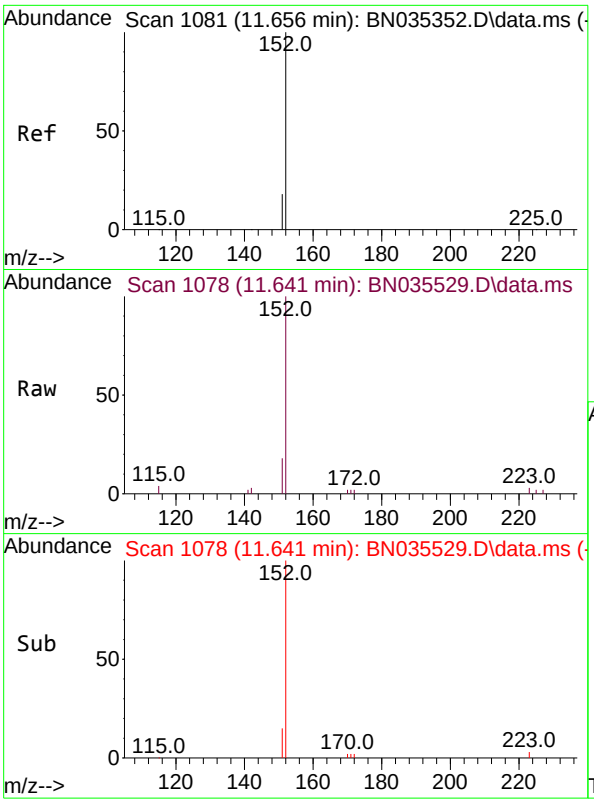


#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:225 Resp: 1268

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.533 ng
RT: 11.641 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:152 Resp: 429

Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0

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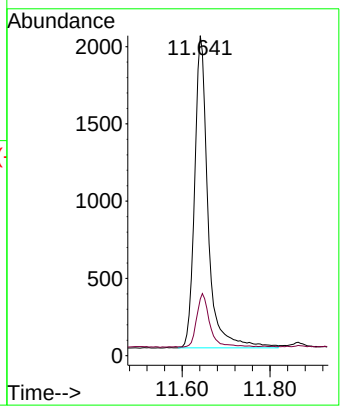
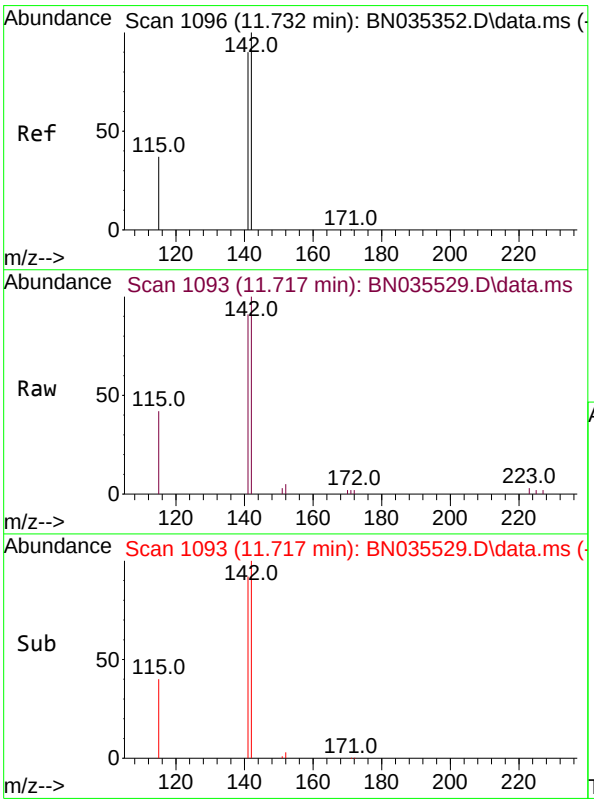
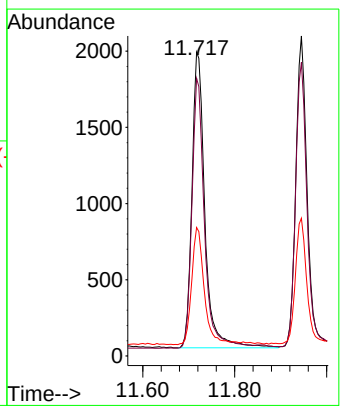


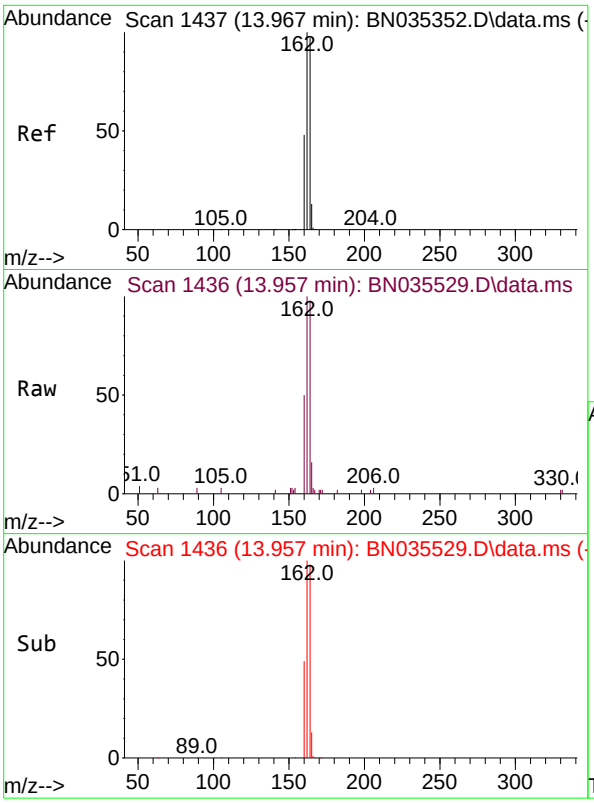


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:142 Resp: 3778

Ion	Ratio	Lower	Upper
142	100		
141	91.4	72.2	108.4
115	42.3	31.4	47.0

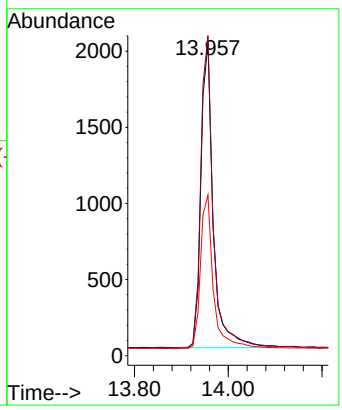




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:164 Resp: 366

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.3	40.1	60.1



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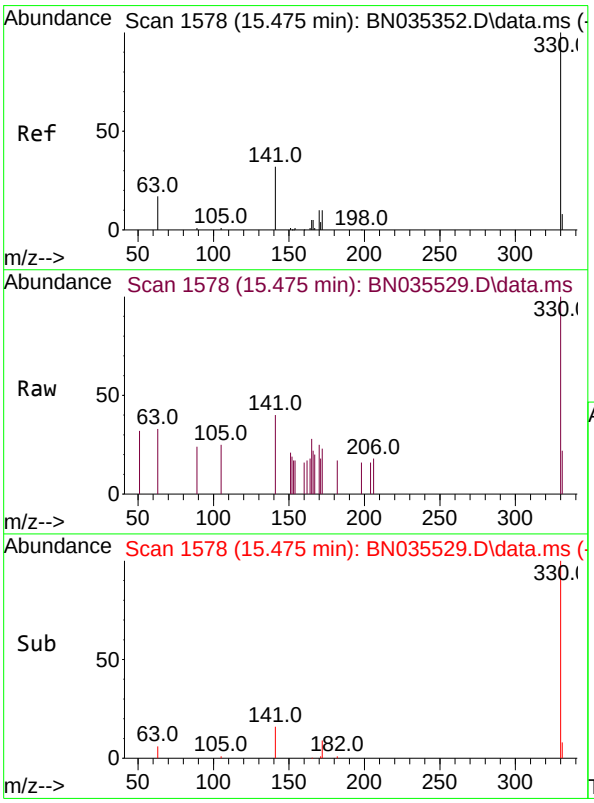
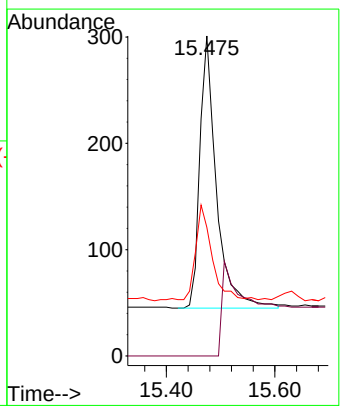
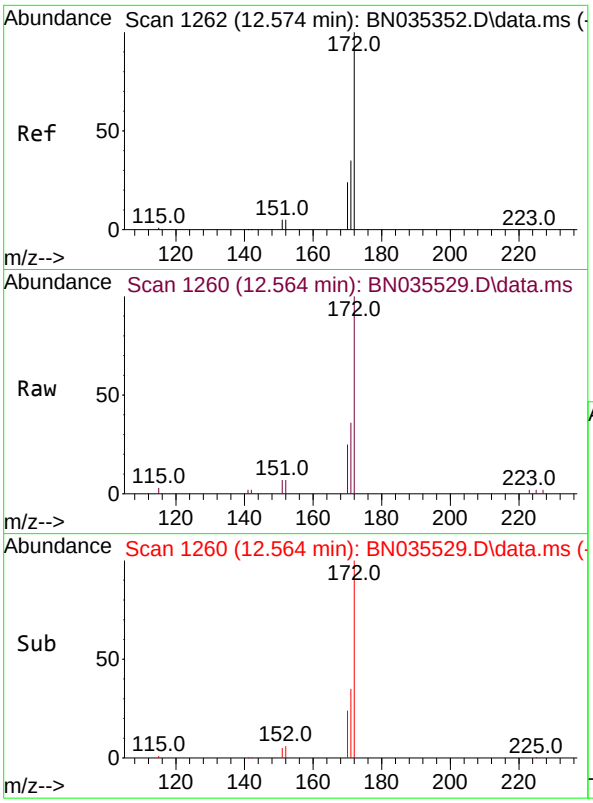


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:330 Resp: 578

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.9	26.6	40.0

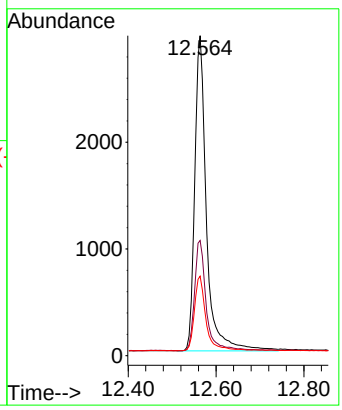




#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:172 Resp: 550

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.8	19.8	29.8



Instrument :
BNA_N
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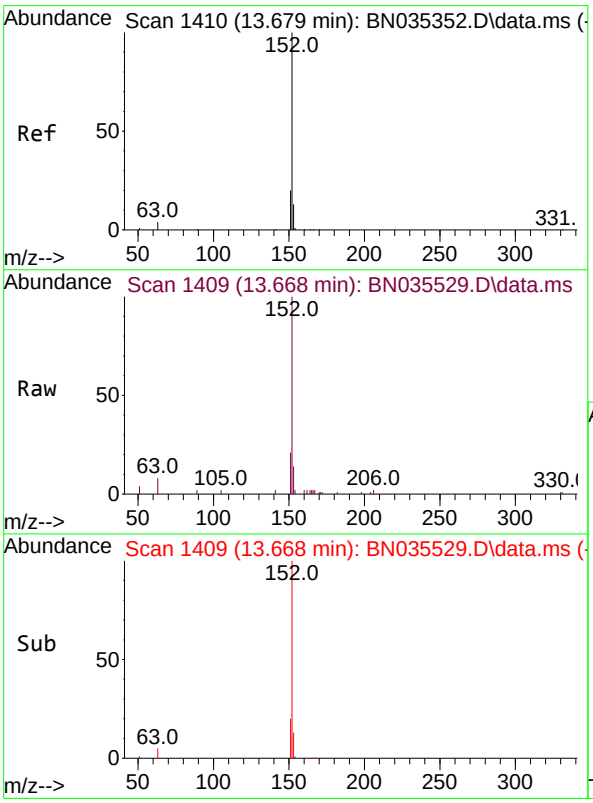
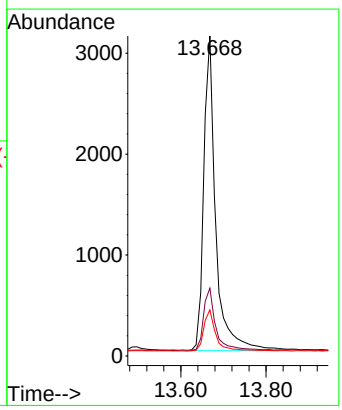
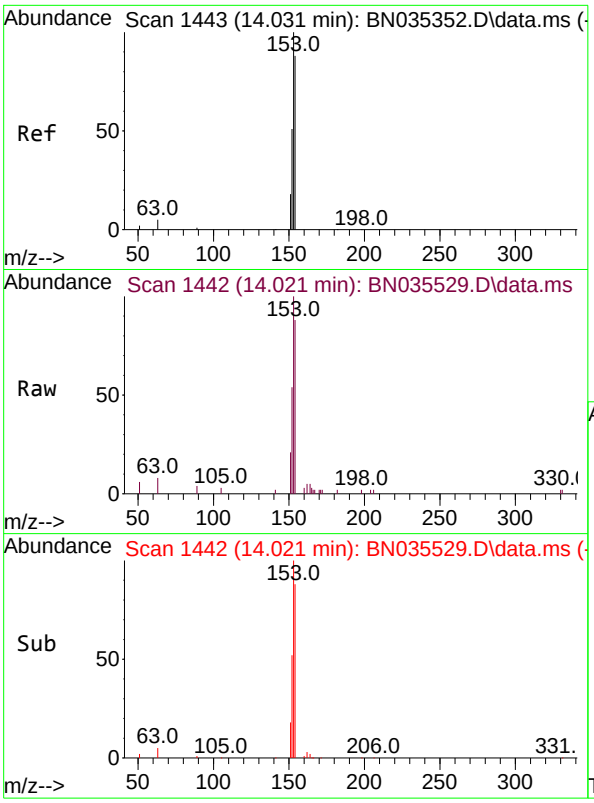


#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:152 Resp: 6063

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.4	10.4	15.6

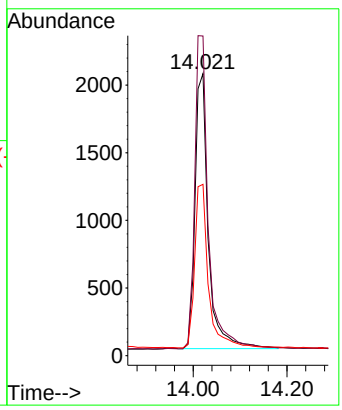




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:154 Resp: 400

Ion	Ratio	Lower	Upper
154	100		
153	116.4	92.6	139.0
152	61.4	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
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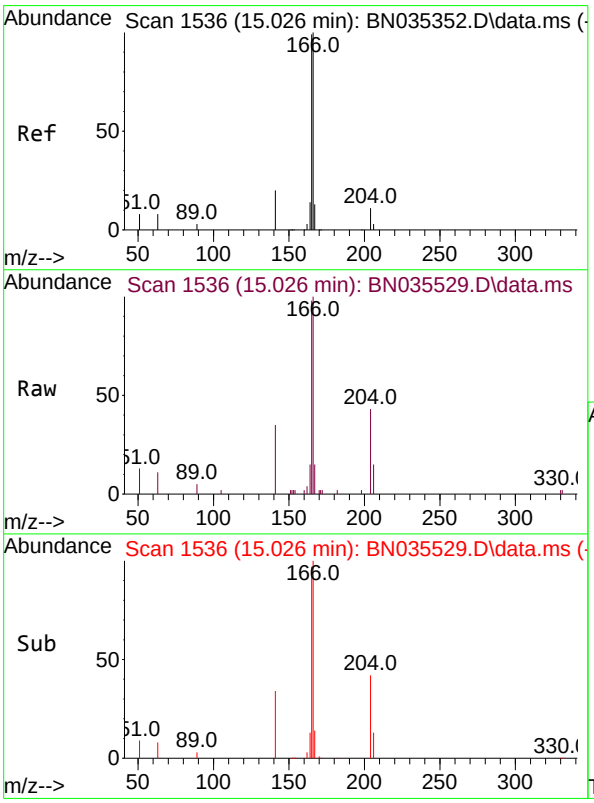
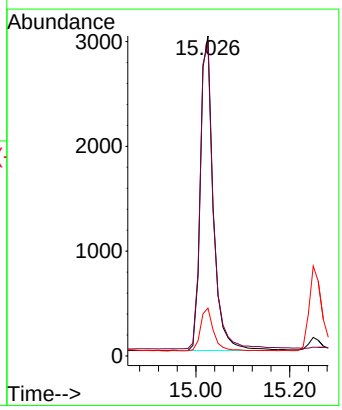
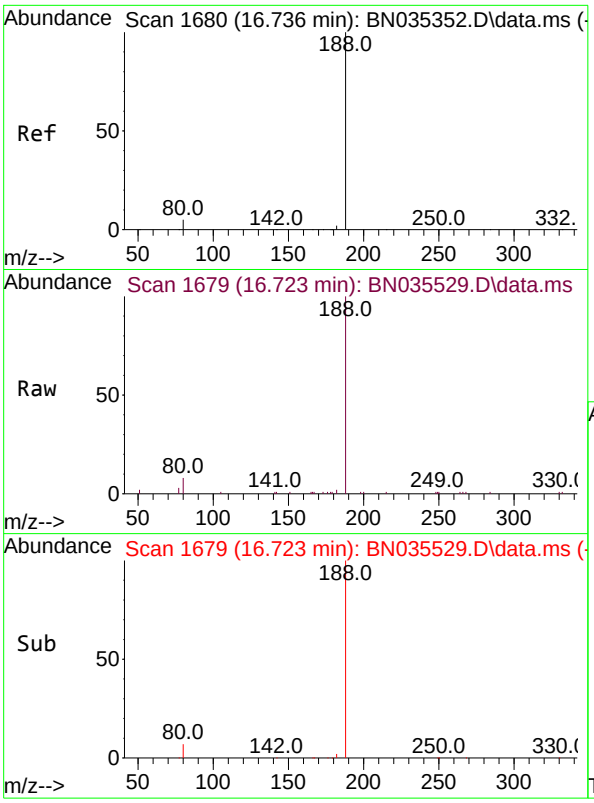


#18
Fluorene
Concen: 0.393 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:166 Resp: 5751

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.7	10.8	16.2

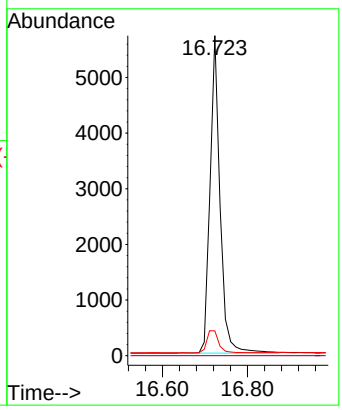




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:188 Resp: 929

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#



Instrument :
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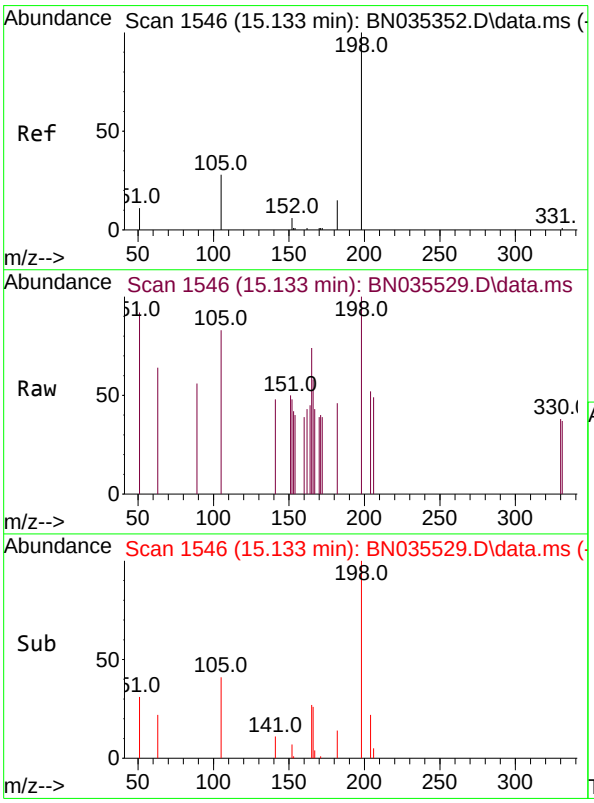
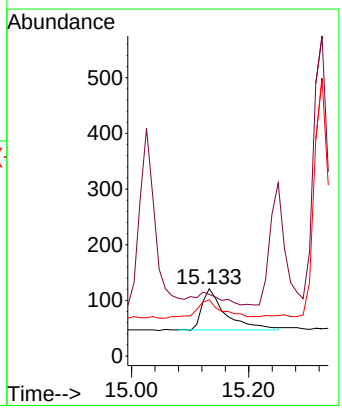
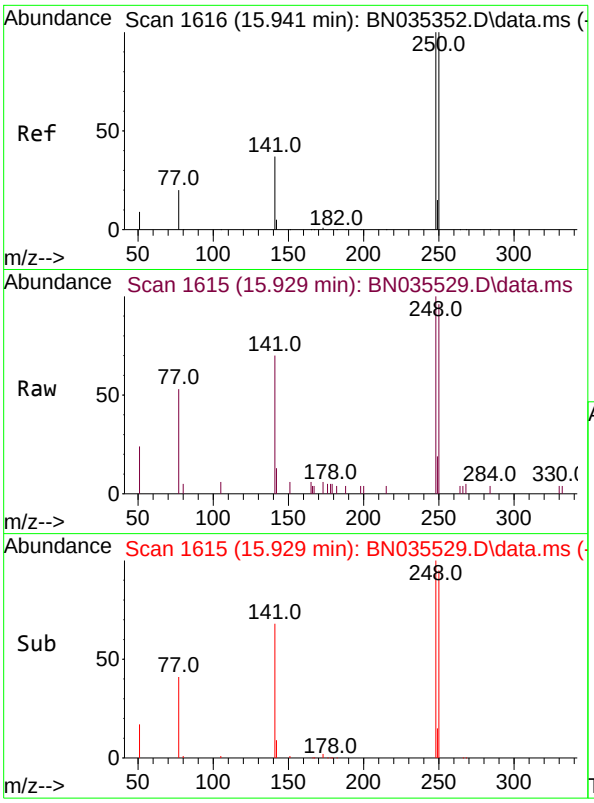


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:198 Resp: 209

Ion	Ratio	Lower	Upper
198	100		
51	91.7	46.5	69.7#
105	83.5	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.929 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:248 Resp: 202(

Ion	Ratio	Lower	Upper
248	100		
250	95.8	80.6	120.8
141	69.5	31.5	47.3#

Instrument :
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ClientSampleId :
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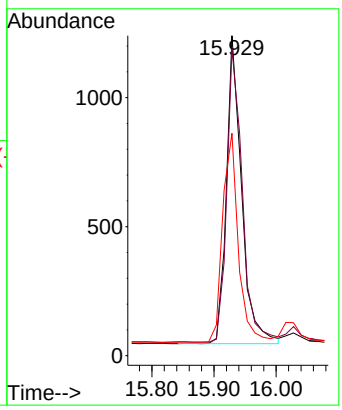
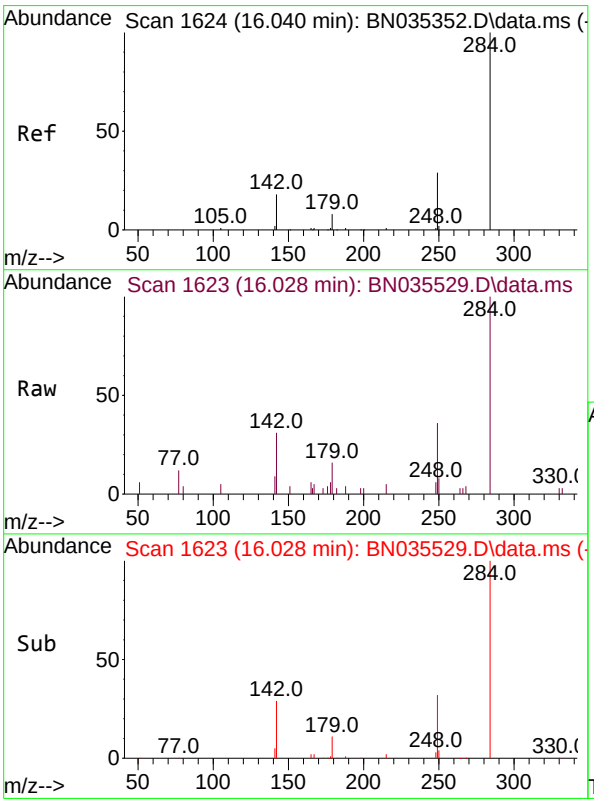
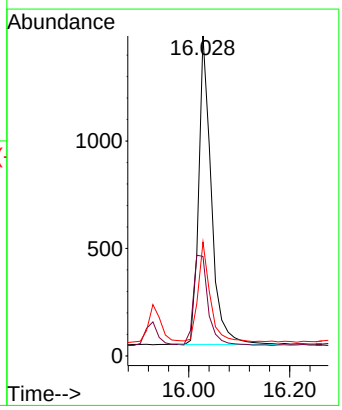


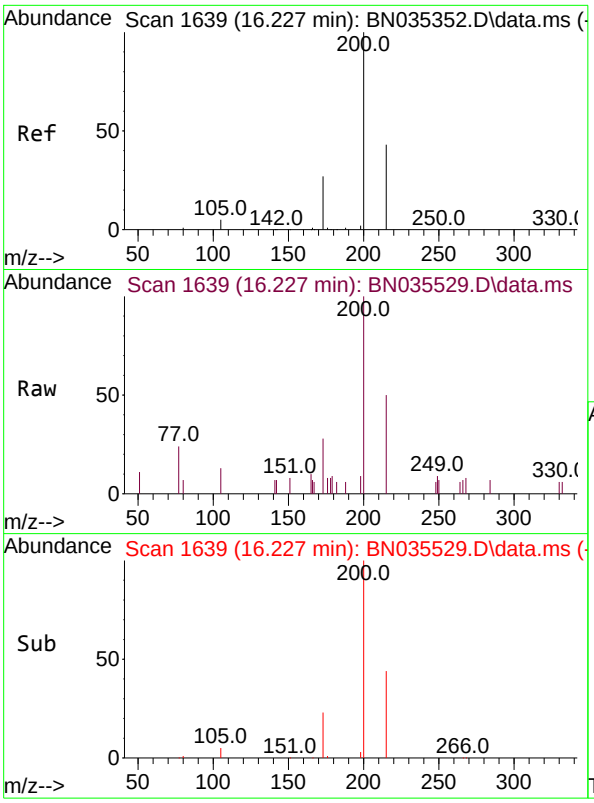


#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:284 Resp: 2497

Ion	Ratio	Lower	Upper
284	100		
142	34.6	26.7	40.1
249	31.4	24.6	36.8

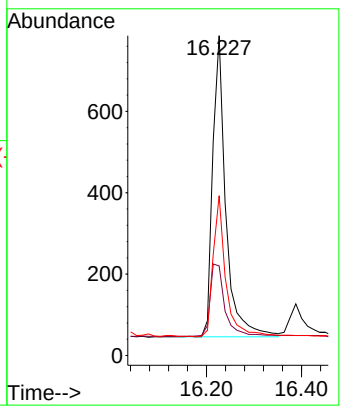




#23
Atrazine
Concen: 0.366 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:200 Resp: 141

Ion	Ratio	Lower	Upper
200	100		
173	28.0	24.1	36.1
215	50.0	36.9	55.3



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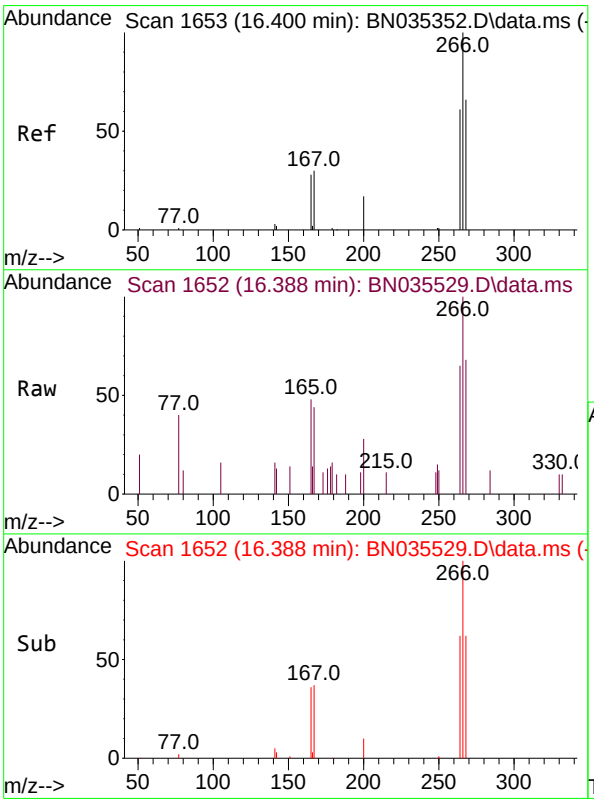
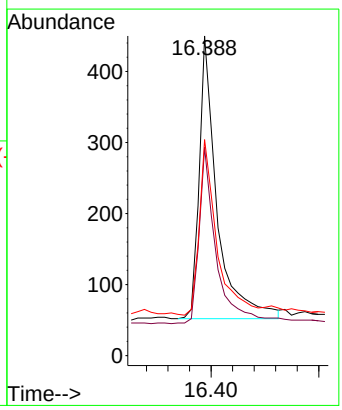
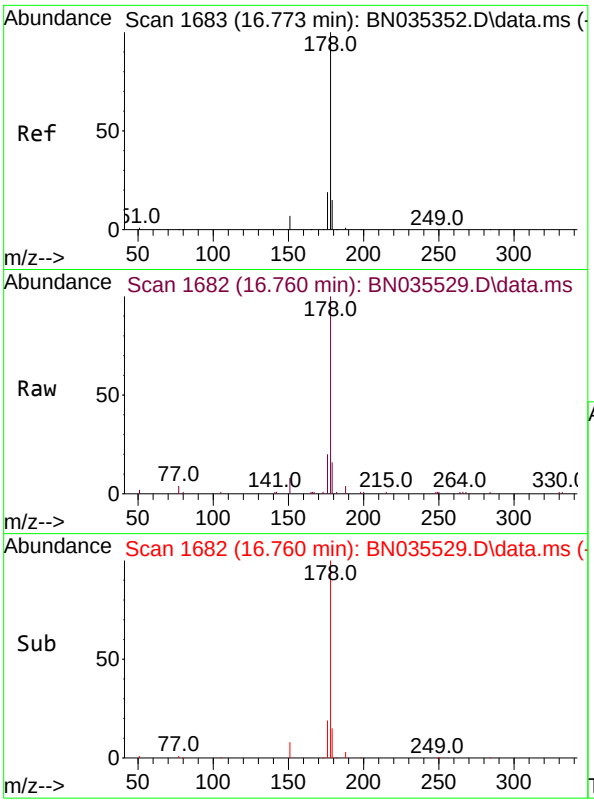


#24
Pentachlorophenol
Concen: 0.329 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:266 Resp: 914

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.2	43.3	64.9

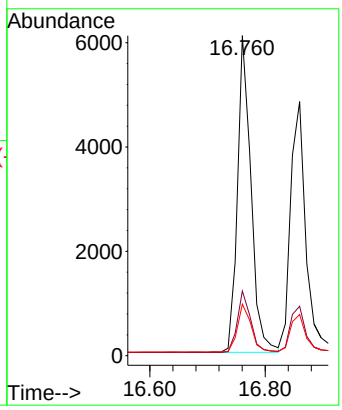




#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:178 Resp: 984

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5



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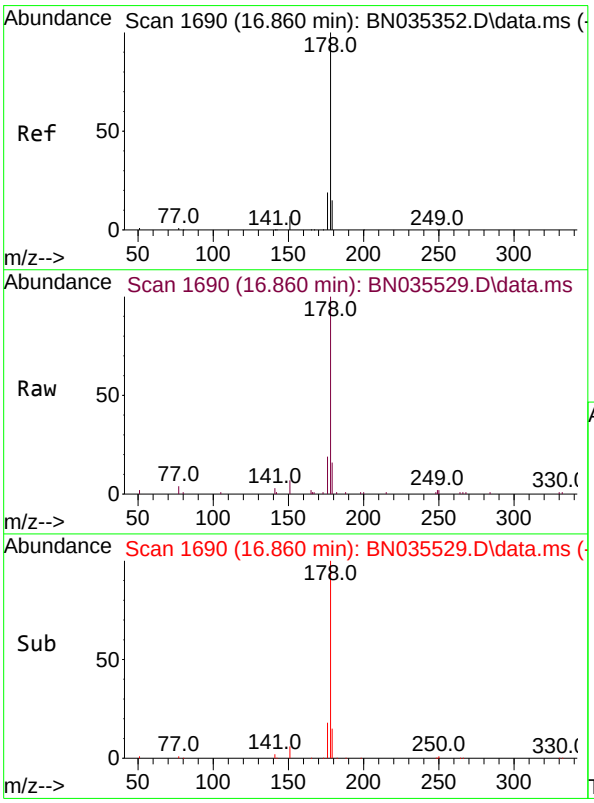
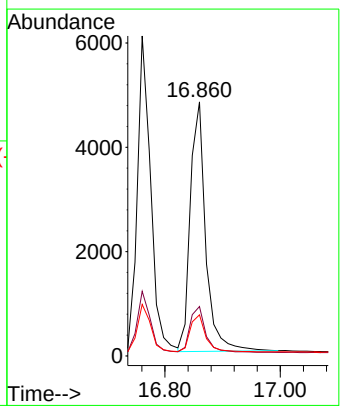
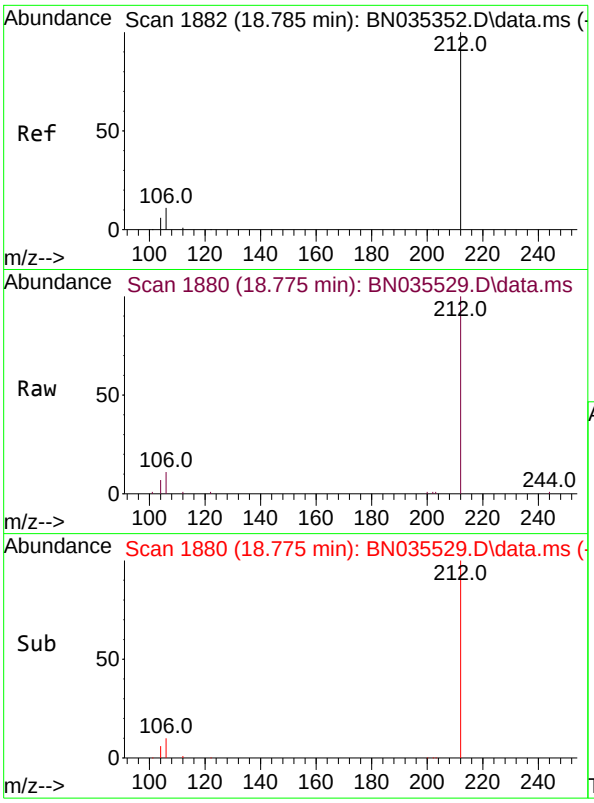


#26
Anthracene
Concen: 0.385 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:178 Resp: 8899

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.0	12.6	18.8

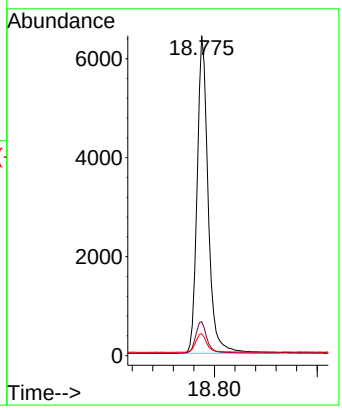




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:212 Resp: 964

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.2	13.8
104	6.0	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
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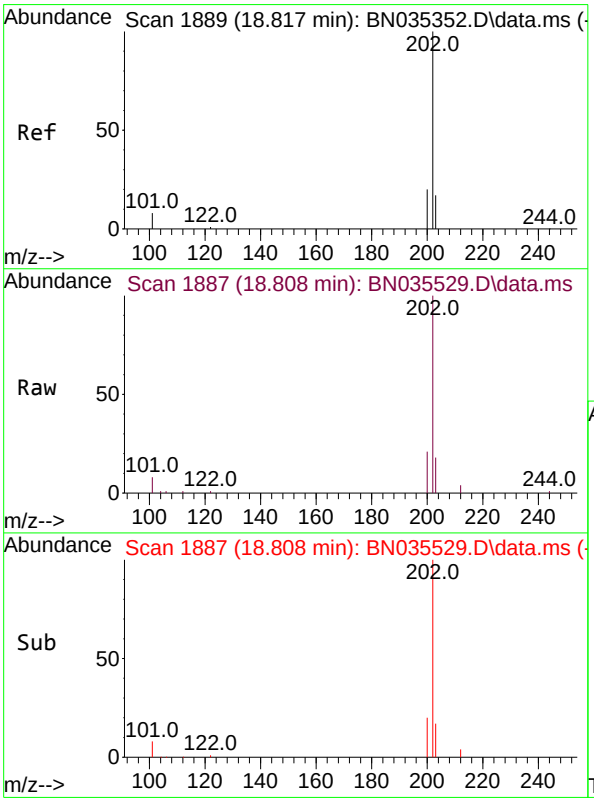
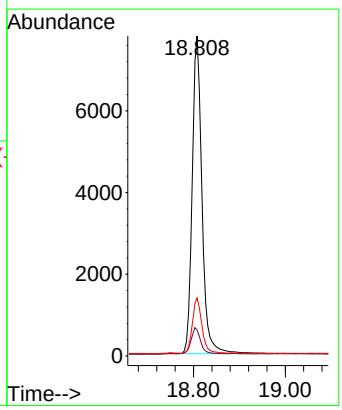
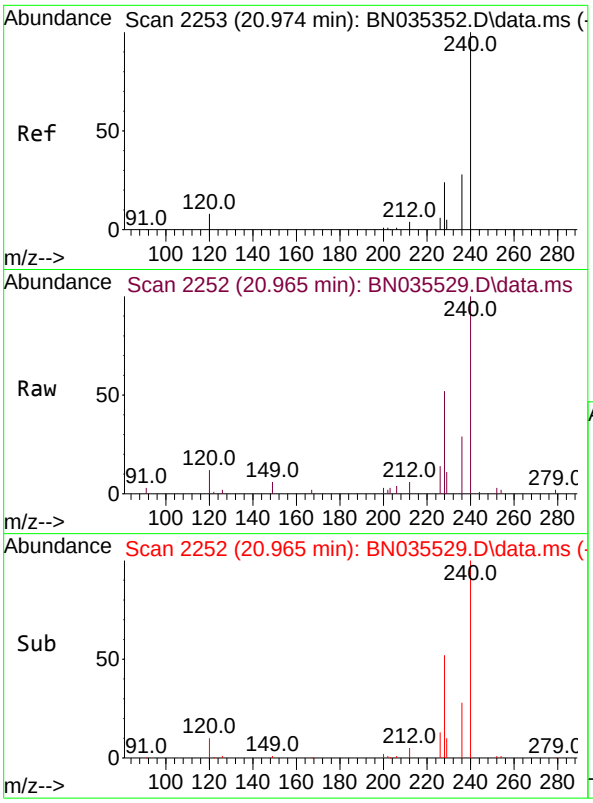


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:202 Resp: 11483

Ion	Ratio	Lower	Upper
202	100		
101	7.9	7.4	11.0
203	16.9	13.7	20.5

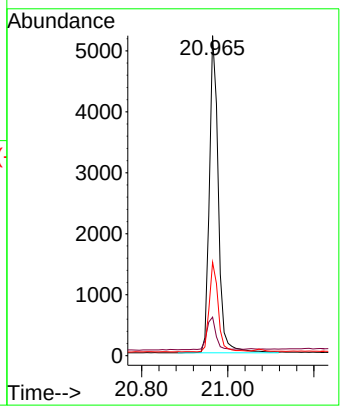




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:240 Resp: 754

Ion	Ratio	Lower	Upper
240	100		
120	12.0	7.9	11.9
236	29.2	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
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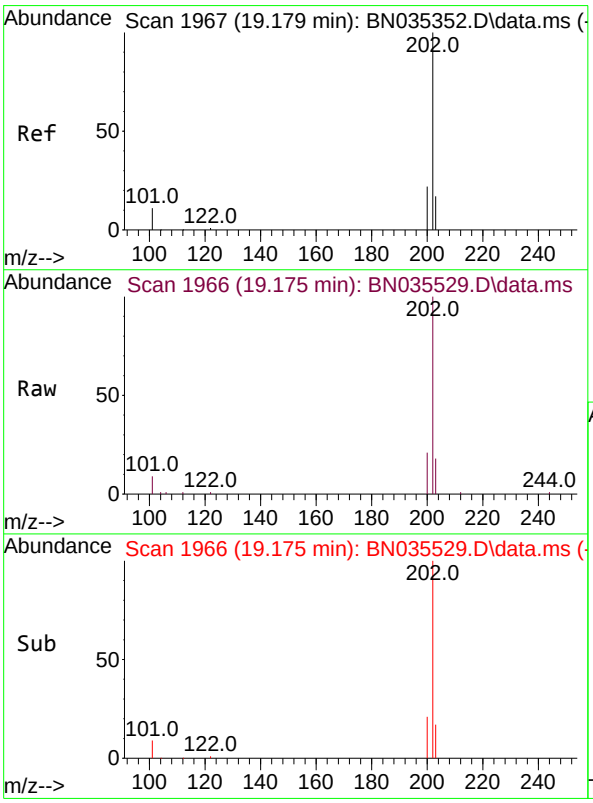
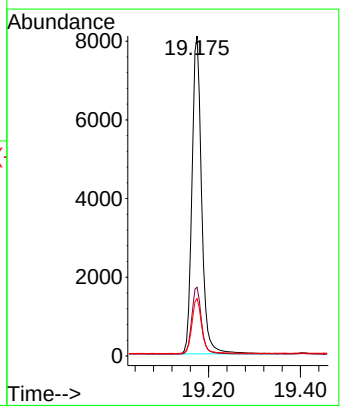
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

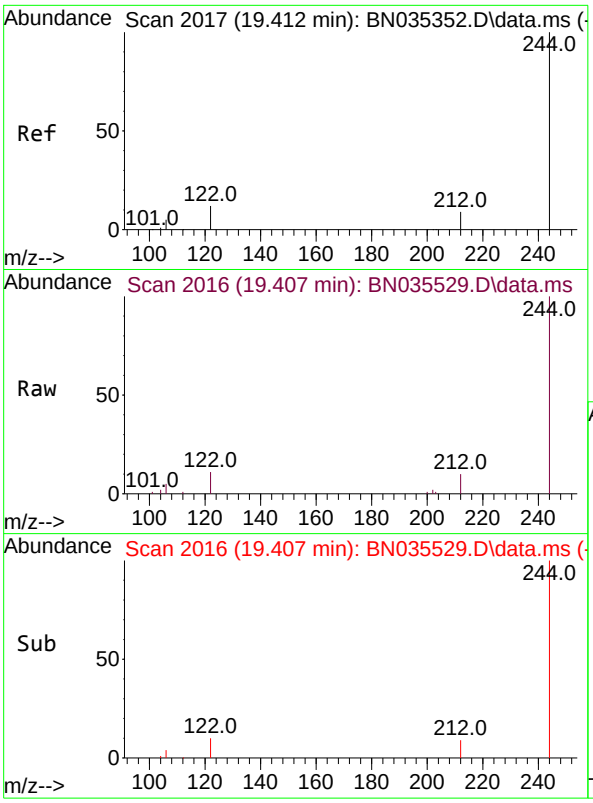


#30
Pyrene
Concen: 0.423 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:202 Resp: 11774

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5

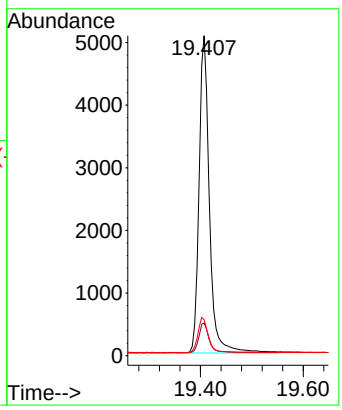




#31
Terphenyl-d14
Concen: 0.477 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:244 Resp: 709

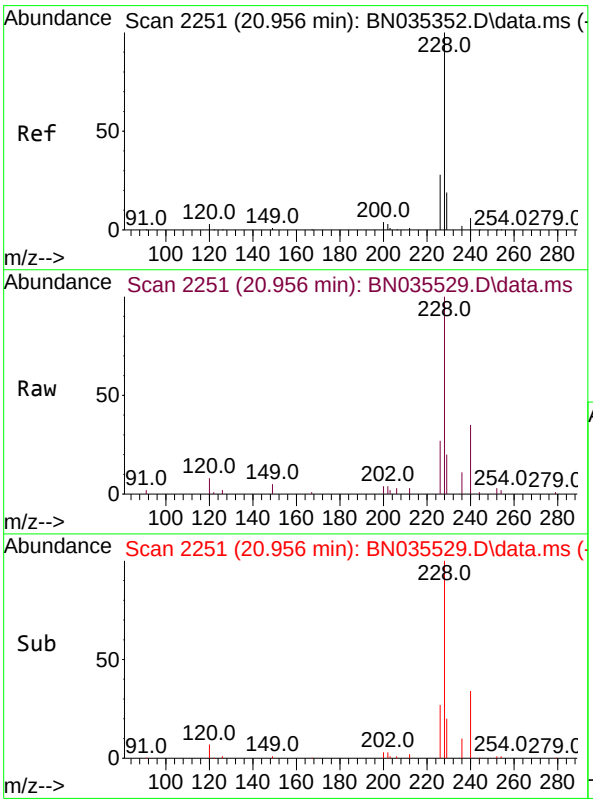
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	11.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
APPROVED

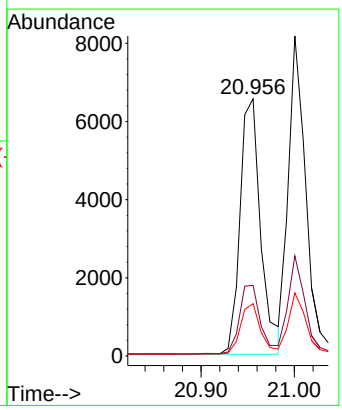
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

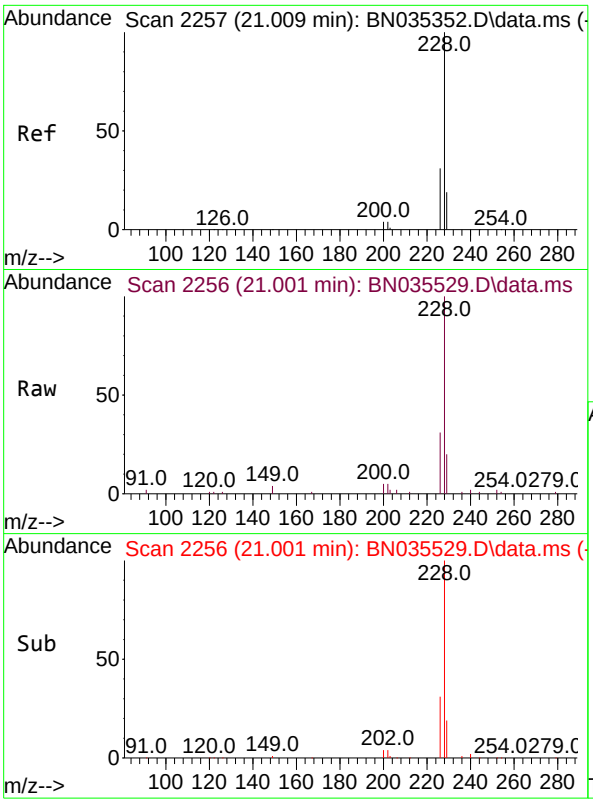


#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:228 Resp: 10084

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	20.3	15.8	23.8





#33
Chrysene
Concen: 0.399 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:228 Resp: 1085

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.7	15.9	23.9

Manual Integrations
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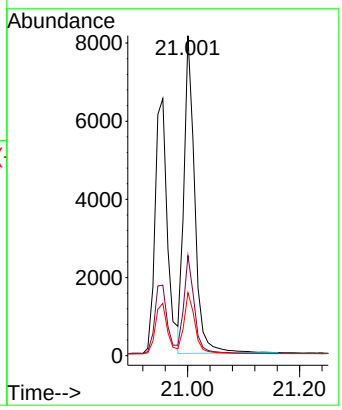
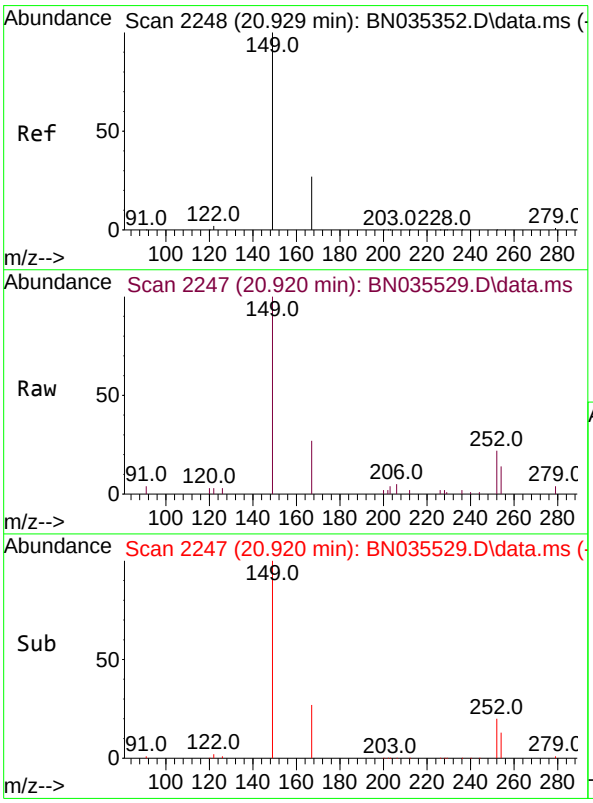
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

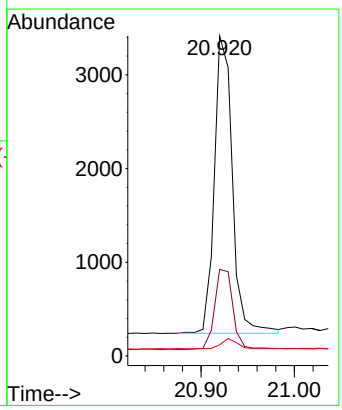


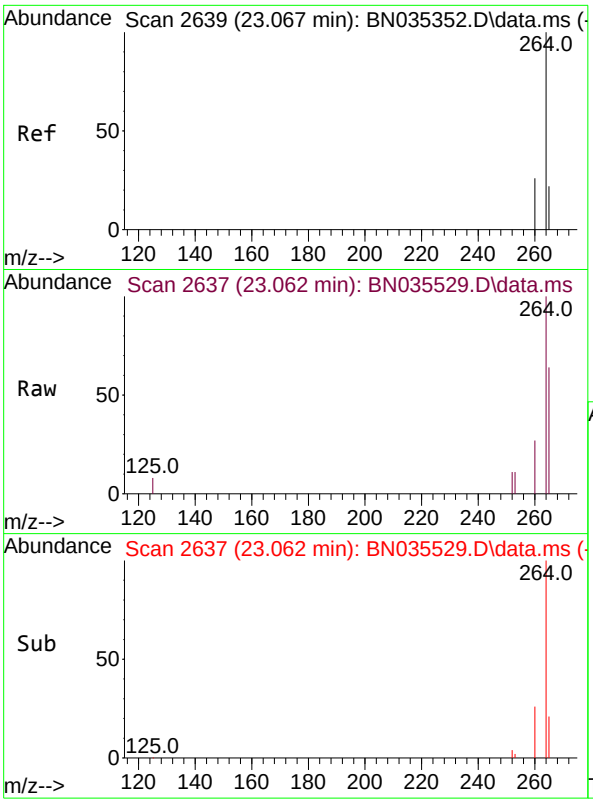


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.406 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:149 Resp: 4232

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:264 Resp: 673

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	63.9	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
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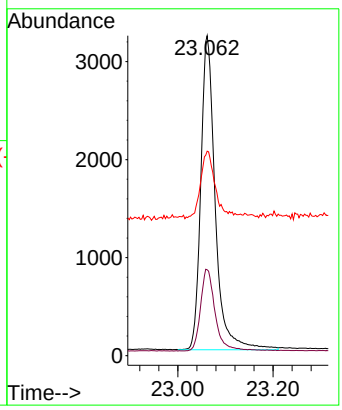
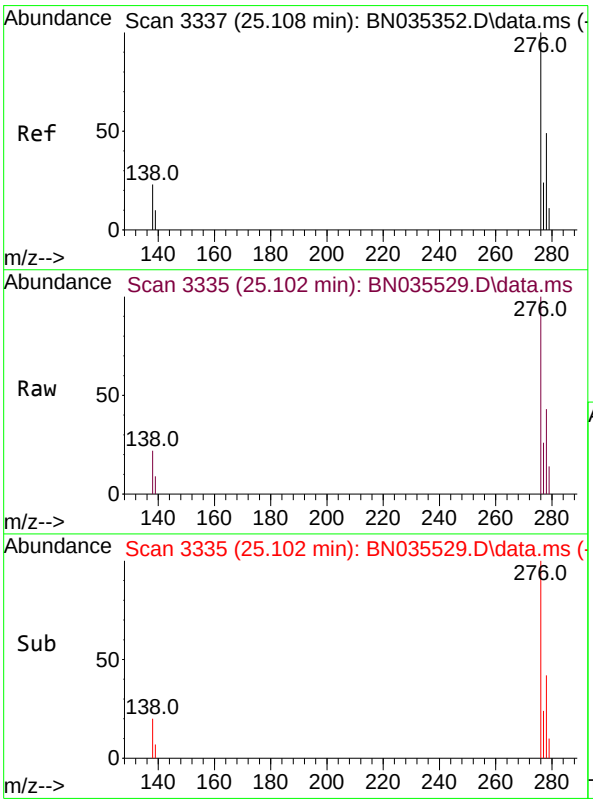
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

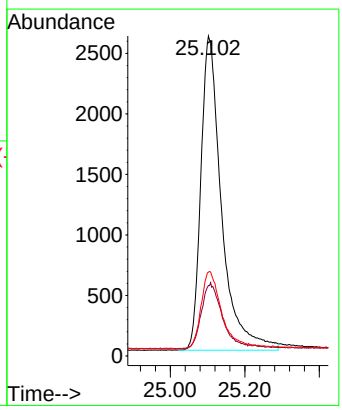


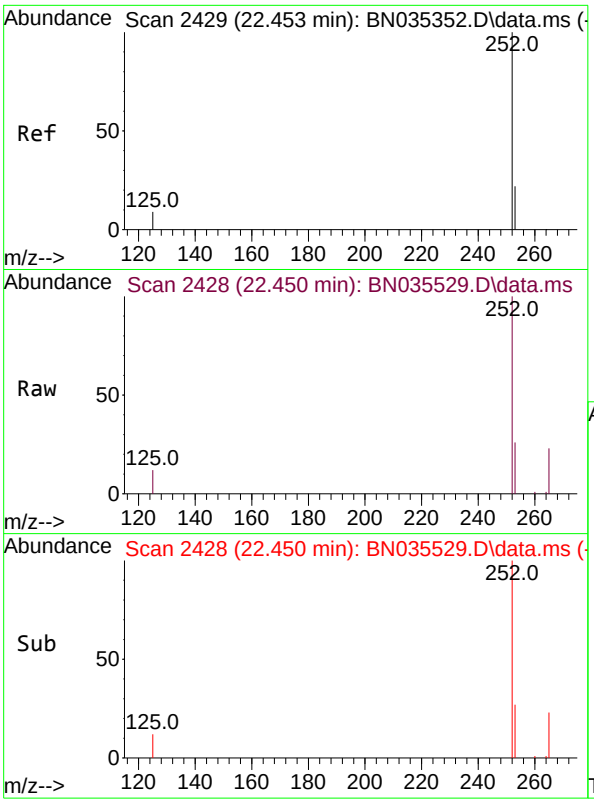


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:276 Resp: 9995

Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.4	29.0
277	25.0	19.8	29.6

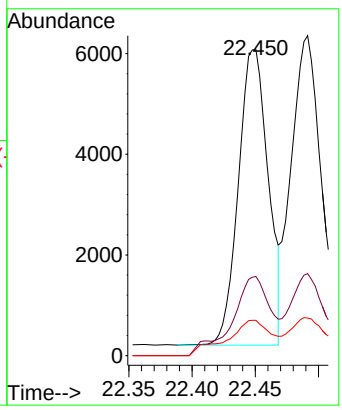




#37
Benzo(b)fluoranthene
Concen: 0.461 ng
RT: 22.450 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:252 Resp: 1136

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	11.5	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
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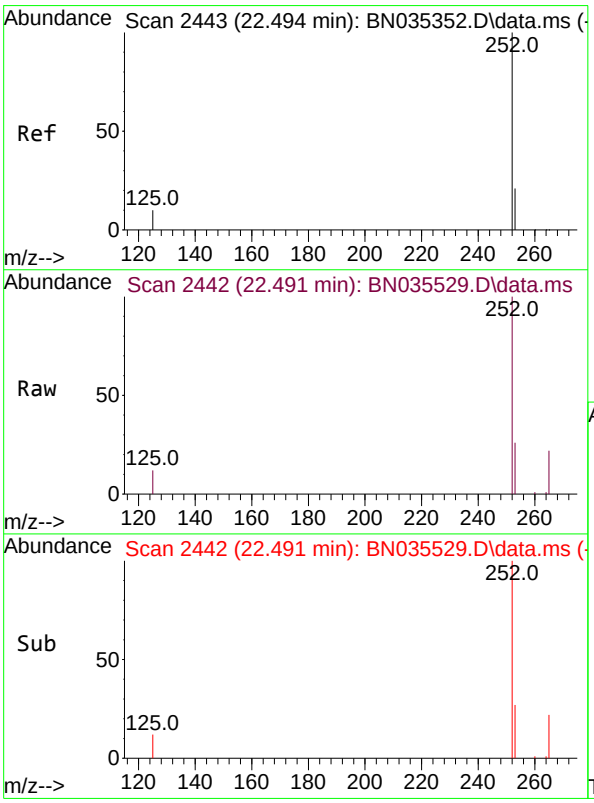
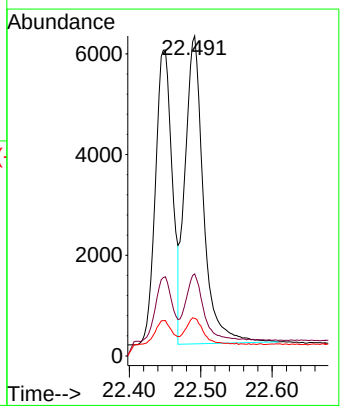
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

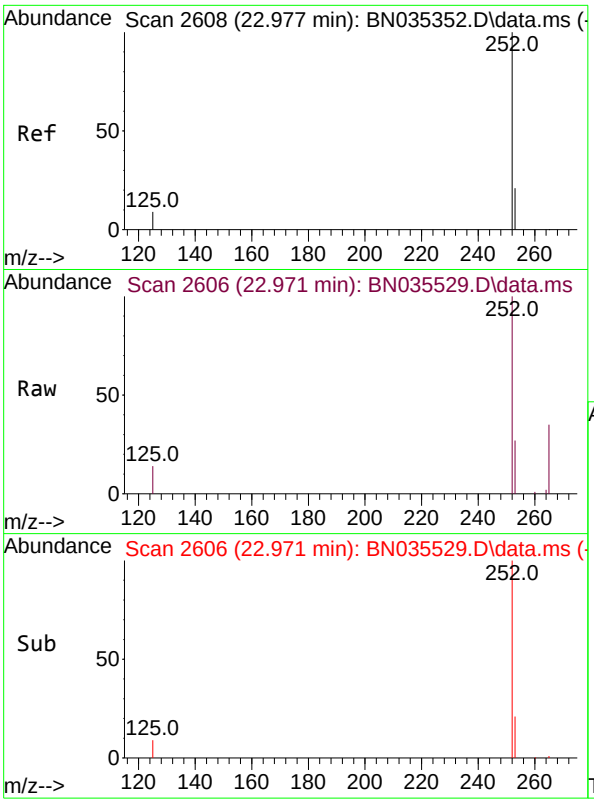


#38
Benzo(k)fluoranthene
Concen: 0.450 ng
RT: 22.491 min Scan# 2442
Delta R.T. -0.003 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:252 Resp: 10907

Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.5	29.3
125	11.7	10.2	15.4

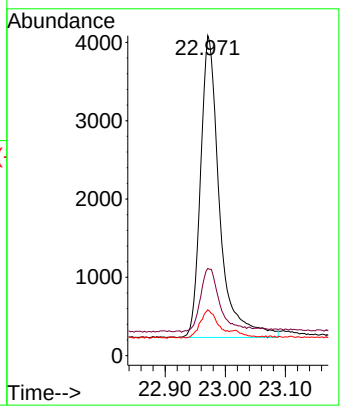




#39
Benzo(a)pyrene
Concen: 0.415 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:252 Resp: 843

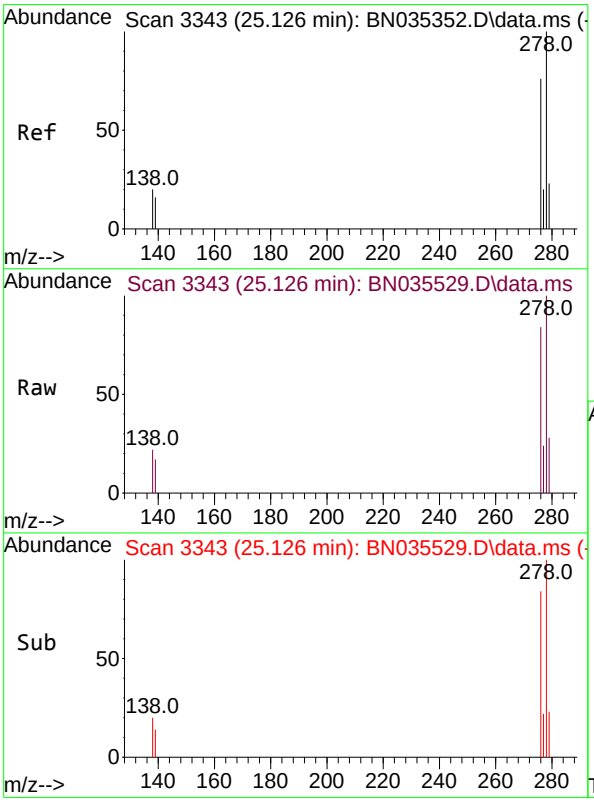
Ion	Ratio	Lower	Upper
252	100		
253	27.2	20.2	30.4
125	14.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
APPROVED

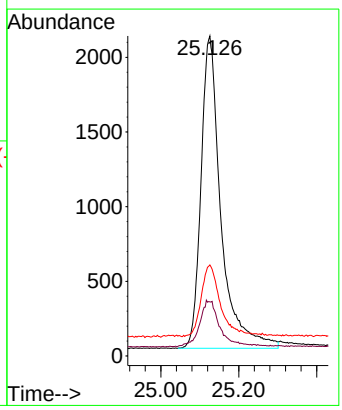
Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

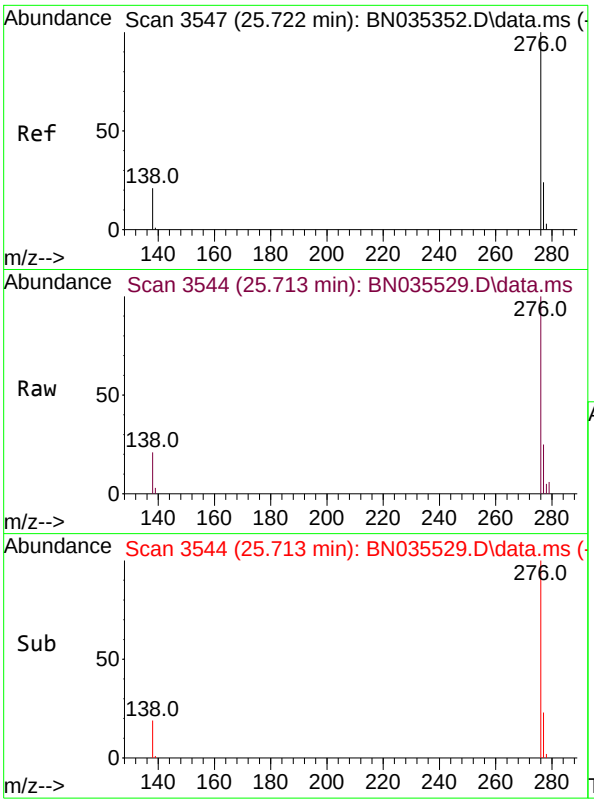


#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:278 Resp: 7420

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.2	21.4
279	28.5	20.5	30.7

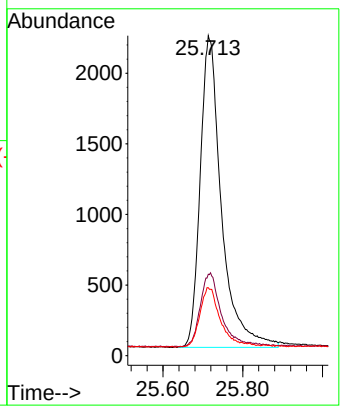




#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 25.713 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:276 Resp: 816

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	21.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/11/2024
Supervised By :mohammad ahmed 12/11/2024

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

Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN035350.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.1	BN035350.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:08 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Benzo(k)fluoranthene	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICC0.2	BN035351.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:10 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICCC0.4	BN035352.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:11 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDICV0.4	BN035357.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:22 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035366.D	Nitrobenzene-d5	yogesh	11/29/2024 12:47:37 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035368.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:03 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software
SSTDCCC0.4	BN035375.D	Nitrobenzene-d5	yogesh	11/29/2024 12:48:17 AM	mohammad	12/3/2024 12:32:57 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN120924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035500.D	Nitrobenzene-d5	yogesh	12/11/2024 12:40:08 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
SSTDCCC0.4	BN035508.D	Nitrobenzene-d5	yogesh	12/11/2024 12:40:58 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
SSTDCCC0.4	BN035510.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:03 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
PB165497BL	BN035511.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:09 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
P5166-04	BN035517.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:43 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
P5166-05	BN035518.D	Nitrobenzene-d5	yogesh	12/11/2024 12:41:50 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
P5166-06	BN035519.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:20 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
SSTDCCC0.4	BN035523.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:00 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
SSTDCCC0.4	BN035525.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:50 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
P5166-04DL	BN035527.D	Nitrobenzene-d5	yogesh	12/11/2024 12:42:55 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
PB165497BS	BN035528.D	Nitrobenzene-d5	yogesh	12/11/2024 12:43:01 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
PB165497BSD	BN035529.D	Nitrobenzene-d5	yogesh	12/11/2024 12:45:22 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software
SSTDCCC0.4	BN035530.D	Nitrobenzene-d5	yogesh	12/11/2024 12:45:28 AM	mohammad	12/11/2024 3:15:17 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN120924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035349.D	27 Nov 2024 14:55	RC/JU	Ok
2	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34	RC/JU	Ok,M
3	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10	RC/JU	Ok,M
4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	RC/JU	Ok,M
5	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21	RC/JU	Ok
6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57	RC/JU	Ok
7	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	RC/JU	Ok
8	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	RC/JU	Ok
9	SSTDICV0.4	BN035357.D	27 Nov 2024 20:21	RC/JU	Ok,M
10	PB165224BL	BN035358.D	27 Nov 2024 20:57	RC/JU	Ok,M
11	PB165266BL	BN035359.D	27 Nov 2024 21:32	RC/JU	Ok,M
12	PB165224BS	BN035360.D	27 Nov 2024 22:08	RC/JU	Ok,M
13	PB165224BSD	BN035361.D	27 Nov 2024 22:44	RC/JU	Ok,M
14	P4969-02	BN035362.D	27 Nov 2024 23:20	RC/JU	Ok,M
15	P4969-04	BN035363.D	27 Nov 2024 23:56	RC/JU	Ok,M
16	P5003-02	BN035364.D	28 Nov 2024 00:32	RC/JU	Ok,M
17	P5003-03	BN035365.D	28 Nov 2024 01:08	RC/JU	Ok,M
18	SSTDCCC0.4	BN035366.D	28 Nov 2024 02:20	RC/JU	Ok,M
19	DFTPP	BN035367.D	28 Nov 2024 03:35	RC/JU	Ok
20	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51	RC/JU	Ok,M
21	PB165198BL	BN035369.D	28 Nov 2024 05:27	RC/JU	Ok,M

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM		
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM		
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165198BS	BN035370.D	28 Nov 2024 06:03	RC/JU	Ok,M
23	PB165198BSD	BN035371.D	28 Nov 2024 06:39	RC/JU	Ok,M
24	PB165266BS	BN035372.D	28 Nov 2024 07:15	RC/JU	Ok,M
25	PB165266BSD	BN035373.D	28 Nov 2024 07:50	RC/JU	Ok,M
26	P4959-01	BN035374.D	28 Nov 2024 08:26	RC/JU	Ok,M
27	SSTDCCC0.4	BN035375.D	28 Nov 2024 09:02	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120924

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035499.D	09 Dec 2024 10:25	RC/JU	Ok
2	SSTDCCC0.4	BN035500.D	09 Dec 2024 11:04	RC/JU	Ok,M
3	PB165433BL	BN035501.D	09 Dec 2024 11:40	RC/JU	Not Ok
4	P5142-02	BN035502.D	09 Dec 2024 12:16	RC/JU	Ok,M
5	P5142-04	BN035503.D	09 Dec 2024 12:52	RC/JU	Ok,M
6	P5143-02	BN035504.D	09 Dec 2024 13:28	RC/JU	Ok,M
7	P5143-06	BN035505.D	09 Dec 2024 14:04	RC/JU	Ok,M
8	PB165433BS	BN035506.D	09 Dec 2024 14:40	RC/JU	Not Ok
9	PB165433BSD	BN035507.D	09 Dec 2024 15:16	RC/JU	Ok,M
10	SSTDCCC0.4	BN035508.D	09 Dec 2024 15:52	RC/JU	Ok,M
11	DFTPP	BN035509.D	09 Dec 2024 16:28	RC/JU	Ok
12	SSTDCCC0.4	BN035510.D	09 Dec 2024 17:07	RC/JU	Ok,M
13	PB165497BL	BN035511.D	09 Dec 2024 17:43	RC/JU	Ok,M
14	P5164-01	BN035512.D	09 Dec 2024 18:19	RC/JU	Ok,M
15	P5164-02	BN035513.D	09 Dec 2024 18:55	RC/JU	Ok,M
16	P5164-04	BN035514.D	09 Dec 2024 19:31	RC/JU	Ok,M
17	P5164-03	BN035515.D	09 Dec 2024 20:07	RC/JU	Ok
18	P5164-06	BN035516.D	09 Dec 2024 20:43	RC/JU	Ok,M
19	P5166-04	BN035517.D	09 Dec 2024 21:19	RC/JU	Dilution
20	P5166-05	BN035518.D	09 Dec 2024 21:55	RC/JU	Ok,M
21	P5166-06	BN035519.D	09 Dec 2024 22:31	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120924

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165497BS	BN035520.D	09 Dec 2024 23:07	RC/JU	Not Ok
23	PB165497BSD	BN035521.D	09 Dec 2024 23:43	RC/JU	Not Ok
24	PB165433BS	BN035522.D	10 Dec 2024 00:19	RC/JU	Ok,M
25	SSTDCCC0.4	BN035523.D	10 Dec 2024 00:55	RC/JU	Ok,M
26	DFTPP	BN035524.D	10 Dec 2024 08:55	RC/JU	Ok
27	SSTDCCC0.4	BN035525.D	10 Dec 2024 09:33	RC/JU	Ok,M
28	PB165433BL	BN035526.D	10 Dec 2024 10:09	RC/JU	Ok
29	P5166-04DL	BN035527.D	10 Dec 2024 10:45	RC/JU	Ok,M
30	PB165497BS	BN035528.D	10 Dec 2024 11:21	RC/JU	Ok,M
31	PB165497BSD	BN035529.D	10 Dec 2024 12:03	RC/JU	Ok,M
32	SSTDCCC0.4	BN035530.D	10 Dec 2024 12:40	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035349.D	27 Nov 2024 14:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN035350.D	27 Nov 2024 15:34		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN035351.D	27 Nov 2024 16:10		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN035352.D	27 Nov 2024 16:46	This Calibration is Good For DOD	RC/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN035353.D	27 Nov 2024 17:21		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN035354.D	27 Nov 2024 17:57		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN035355.D	27 Nov 2024 18:33	Compound #20 removed from 3.2ppm	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN035356.D	27 Nov 2024 19:09	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN112724	BN035357.D	27 Nov 2024 20:21		RC/JU	Ok,M
10	PB165224BL	PB165224BL	BN035358.D	27 Nov 2024 20:57		RC/JU	Ok,M
11	PB165266BL	PB165266BL	BN035359.D	27 Nov 2024 21:32		RC/JU	Ok,M
12	PB165224BS	PB165224BS	BN035360.D	27 Nov 2024 22:08		RC/JU	Ok,M
13	PB165224BSD	PB165224BSD	BN035361.D	27 Nov 2024 22:44		RC/JU	Ok,M
14	P4969-02	TOWER-1	BN035362.D	27 Nov 2024 23:20		RC/JU	Ok,M
15	P4969-04	TOWER-2	BN035363.D	27 Nov 2024 23:56		RC/JU	Ok,M
16	P5003-02	RW-10A-HYD-2024112	BN035364.D	28 Nov 2024 00:32		RC/JU	Ok,M
17	P5003-03	RW-10A-HYD-2024112	BN035365.D	28 Nov 2024 01:08		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112724

Review By	yogesh	Review On	11/29/2024 12:48:33 AM	
Supervise By	mohammad	Supervise On	12/3/2024 12:32:57 AM	
SubDirectory	BN112724	HP Acquire Method	BNA_N, 8270_HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035366.D	28 Nov 2024 02:20		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035367.D	28 Nov 2024 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035368.D	28 Nov 2024 04:51		RC/JU	Ok,M
21	PB165198BL	PB165198BL	BN035369.D	28 Nov 2024 05:27		RC/JU	Ok,M
22	PB165198BS	PB165198BS	BN035370.D	28 Nov 2024 06:03		RC/JU	Ok,M
23	PB165198BSD	PB165198BSD	BN035371.D	28 Nov 2024 06:39		RC/JU	Ok,M
24	PB165266BS	PB165266BS	BN035372.D	28 Nov 2024 07:15		RC/JU	Ok,M
25	PB165266BSD	PB165266BSD	BN035373.D	28 Nov 2024 07:50		RC/JU	Ok,M
26	P4959-01	RW5-SP100-20241121	BN035374.D	28 Nov 2024 08:26		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN035375.D	28 Nov 2024 09:02		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120924

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035499.D	09 Dec 2024 10:25		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035500.D	09 Dec 2024 11:04		RC/JU	Ok,M
3	PB165433BL	PB165433BL	BN035501.D	09 Dec 2024 11:40	Analyzed for contamination check	RC/JU	Not Ok
4	P5142-02	TOWER-1	BN035502.D	09 Dec 2024 12:16		RC/JU	Ok,M
5	P5142-04	TOWER-2	BN035503.D	09 Dec 2024 12:52		RC/JU	Ok,M
6	P5143-02	DSN002	BN035504.D	09 Dec 2024 13:28		RC/JU	Ok,M
7	P5143-06	DSN003	BN035505.D	09 Dec 2024 14:04		RC/JU	Ok,M
8	PB165433BS	PB165433BS	BN035506.D	09 Dec 2024 14:40	Surrogate Fail	RC/JU	Not Ok
9	PB165433BSD	PB165433BSD	BN035507.D	09 Dec 2024 15:16		RC/JU	Ok,M
10	SSTDCCC0.4	SSTDCCC0.4EC	BN035508.D	09 Dec 2024 15:52		RC/JU	Ok,M
11	DFTPP	DFTPP	BN035509.D	09 Dec 2024 16:28		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN035510.D	09 Dec 2024 17:07		RC/JU	Ok,M
13	PB165497BL	PB165497BL	BN035511.D	09 Dec 2024 17:43		RC/JU	Ok,M
14	P5164-01	RE108D2-20241206	BN035512.D	09 Dec 2024 18:19		RC/JU	Ok,M
15	P5164-02	RE108D1-20241206	BN035513.D	09 Dec 2024 18:55		RC/JU	Ok,M
16	P5164-04	RE105D2-20241206	BN035514.D	09 Dec 2024 19:31		RC/JU	Ok,M
17	P5164-03	RE105D1-20241206	BN035515.D	09 Dec 2024 20:07		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120924

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BN120924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5164-06	FB-20241206	BN035516.D	09 Dec 2024 20:43		RC/JU	Ok,M
19	P5166-04	RW5-SP100-20241206	BN035517.D	09 Dec 2024 21:19	Need 5X Dilution	RC/JU	Dilution
20	P5166-05	RW5-SP201-20241206	BN035518.D	09 Dec 2024 21:55		RC/JU	Ok,M
21	P5166-06	RW5-SP303-20241206	BN035519.D	09 Dec 2024 22:31		RC/JU	Ok,M
22	PB165497BS	PB165497BS	BN035520.D	09 Dec 2024 23:07	Surrogate Fail	RC/JU	Not Ok
23	PB165497BSD	PB165497BSD	BN035521.D	09 Dec 2024 23:43	Surrogate Fail	RC/JU	Not Ok
24	PB165433BS	PB165433BS	BN035522.D	10 Dec 2024 00:19		RC/JU	Ok,M
25	SSTDCCC0.4	SSTDCCC0.4EC	BN035523.D	10 Dec 2024 00:55		RC/JU	Ok,M
26	DFTPP	DFTPP	BN035524.D	10 Dec 2024 08:55		RC/JU	Ok
27	SSTDCCC0.4	SSTDCCC0.4	BN035525.D	10 Dec 2024 09:33		RC/JU	Ok,M
28	PB165433BL	PB165433BL	BN035526.D	10 Dec 2024 10:09		RC/JU	Ok
29	P5166-04DL	RW5-SP100-20241206	BN035527.D	10 Dec 2024 10:45		RC/JU	Ok,M
30	PB165497BS	PB165497BS	BN035528.D	10 Dec 2024 11:21		RC/JU	Ok,M
31	PB165497BSD	PB165497BSD	BN035529.D	10 Dec 2024 12:03		RC/JU	Ok,M
32	SSTDCCC0.4	SSTDCCC0.4EC	BN035530.D	10 Dec 2024 12:40		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165497

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

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 12/09/2024

Extraction Start Time : 11:27

Extraction End Date : 12/09/2024

Extraction End Time : 16:25

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6666
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	E3845
Baked Na2SO4	N/A	EP2570
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

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 -01

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/9/24	RP (Ext' Lab)	RC/SVOC
16:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165497

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

Concentration Date: 12/09/2024

Sample ID	Client Sample ID	Test	g /mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165497BL	SBLK497	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			SEP-1
PB165497BS	SLCS497	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			2
PB165497BSD	SLCSD497	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			3
P5164-01	RE108D2-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		4
P5164-02	RE108D1-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		5
P5164-03	RE105D1-20241206	SVOC-SIMGroup1	960	6	RUPESH	rajesh	1	C		6
P5164-04	RE105D2-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		7
P5164-06	FB-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		8
P5166-04	RW5-SP100-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			9
P5166-05	RW5-SP201-20241206	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1			10
P5166-06	RW5-SP303-20241206	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			11

* **Extracts relinquished on the same date as received.**

12/9/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5164 **WorkList ID :** 186136 **Department :** Extraction **Date :** 12-09-2024 11:23:49

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5164-01	RE108D2-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-02	RE108D1-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-03	RE105D1-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-04	RE105D2-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5164-06	FB-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L61	12/06/2024	8270-Modified
P5166-04	RW5-SP100-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified
P5166-05	RW5-SP201-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified
P5166-06	RW5-SP303-20241206	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/06/2024	8270-Modified

Date/Time 12/9/24 11:25
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: L.C (Sun)

Date/Time 12/9/24 11:55
Raw Sample Received by: L.C (Sun)
Raw Sample Relinquished by: RS (Ext Lab)

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Prep Standard - Chemical Standard Summary

Order ID : P5166

Test : SVOC-SIMGroup1

Prepbatch ID : PB165497,

Sequence ID/Qc Batch ID: BN120924,

Standard ID :
EP2559,EP2565,EP2570,SP6573,SP6606,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S 11011,S11074,S11097,S11494,S11771,S11831,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S12314,S12328,S12453,S12469,S12517,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6629	09/12/2024	03/04/2025	Jagrut Upadhyay	None	None	Yogesh Patel 10/14/2024

FROM 0.10000ml of S12314 + 4.90000ml of E3791 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6656	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.03350ml of S10103 + 0.05000ml of S11494 + 0.05000ml of S12079 + 0.12500ml of S11831 + 0.12500ml of S12113 + 0.20000ml of S12077 + 0.25000ml of S11097 + 24.16650ml of E3817 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6657	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6658	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.68000ml of E3817 + 0.01000ml of SP6629 + 0.32000ml of SP6656 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6659	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.84000ml of E3817 + 0.01000ml of SP6629 + 0.16000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6660	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.92000ml of E3817 + 0.01000ml of SP6629 + 0.08000ml of SP6656 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6661	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.96000ml of E3817 + 0.01000ml of SP6629 + 0.04000ml of SP6656 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6662	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.50000ml of E3817 + 0.01000ml of SP6629 + 0.50000ml of SP6661 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6663	10/24/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.75000ml of E3817 + 0.01000ml of SP6629 + 0.25000ml of SP6661 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6666	10/29/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/28/2024

FROM 0.00800ml of S12189 + 0.01600ml of S12207 + 0.04000ml of S11831 + 199.93600ml of E3818 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

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

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	03/04/2025	09/04/2024 / anahy	05/30/2024 / Rahul	S12314

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
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S9236
to
S9240

*Not a certified value

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Certified By: Erica Castiglione

Erica Castiglione
Chemist

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

CPI INTERNATIONAL

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~~S11097~~ S11096 to S11099

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

Date Received:_____

Certificate of Analysis

Rev 0

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

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

*Not a certified value

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Certified By: Briana Smith

Briana Smith
Chemist

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

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

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

*Not a certified value

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Certified By: Briana Smith

Briana Smith
Chemist

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

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

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

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

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

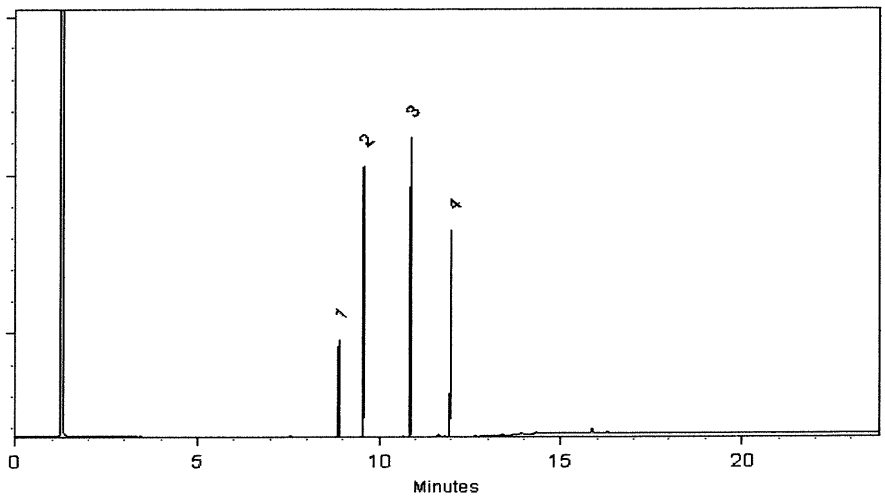
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
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Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

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

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

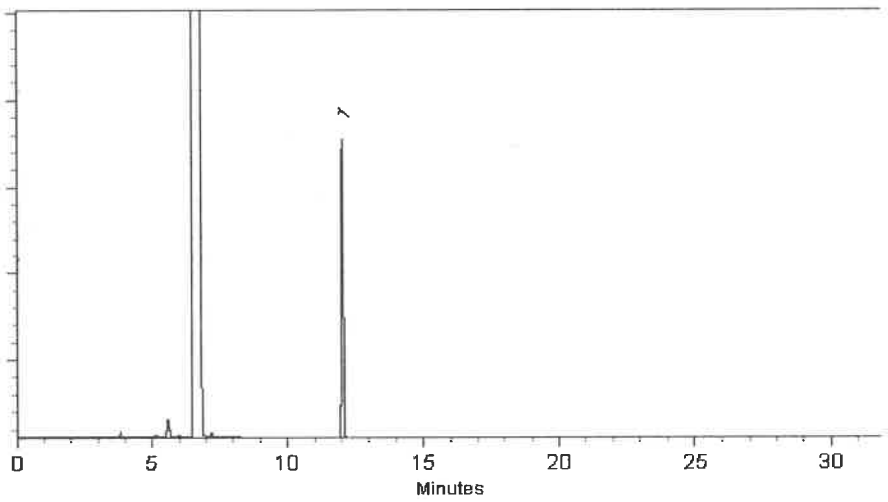
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

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

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Received on 01/13/23 by CG S11011 to S11015

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

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

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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

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

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

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

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

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

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

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

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

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

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

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

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

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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

Avantor Performance Materials LLC

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

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

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

CPI INTERNATIONAL

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Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
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Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

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

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Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

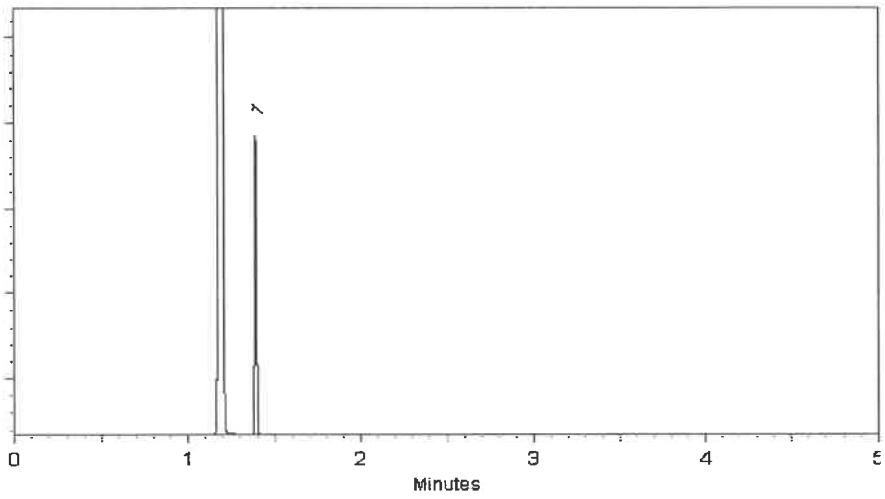
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

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

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

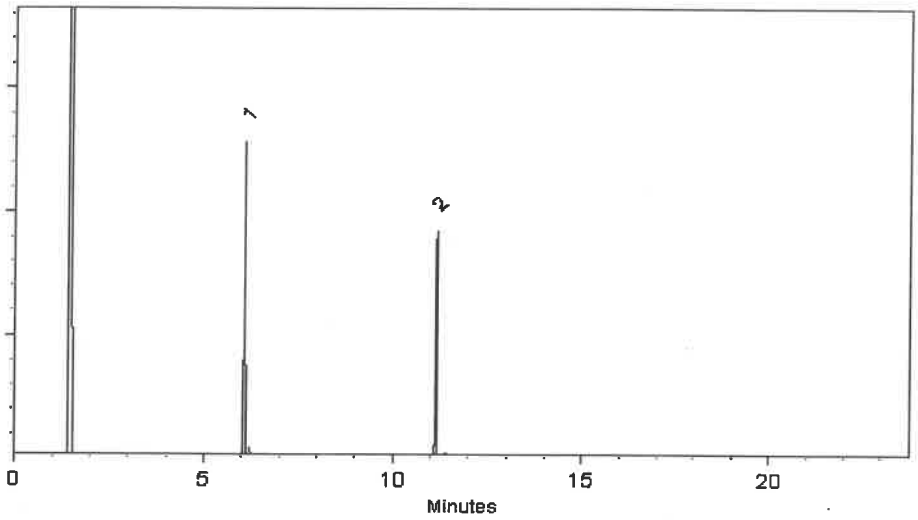
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

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

Certified By: _____
Shane Overcash
Chemist

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

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Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

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

Certified By: _____
Shane Overcash
Chemist

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

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Certificate of Analysis

gravimetric

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : Custom 8270 Plus Standard #2

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

S12082 ↓ S12111 RC/ 02/22/24

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

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

Ship: Ambient

CERTIFIED VALUES

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

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

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

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

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

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

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chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 8270 MegaMix®

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

S12117 ↓ S12146 RC/ 03/18/24

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

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

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

CERTIFIED VALUES

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

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

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

Description : 8270 MegaMix®

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

S12117 ↓ S12146 RC/ 03/18/24

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

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

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

CERTIFIED VALUES

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

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

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

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

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

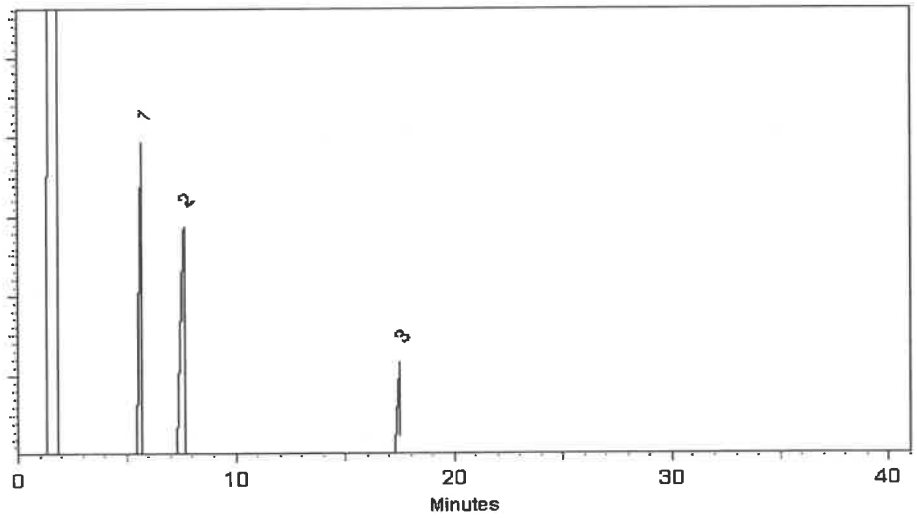
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

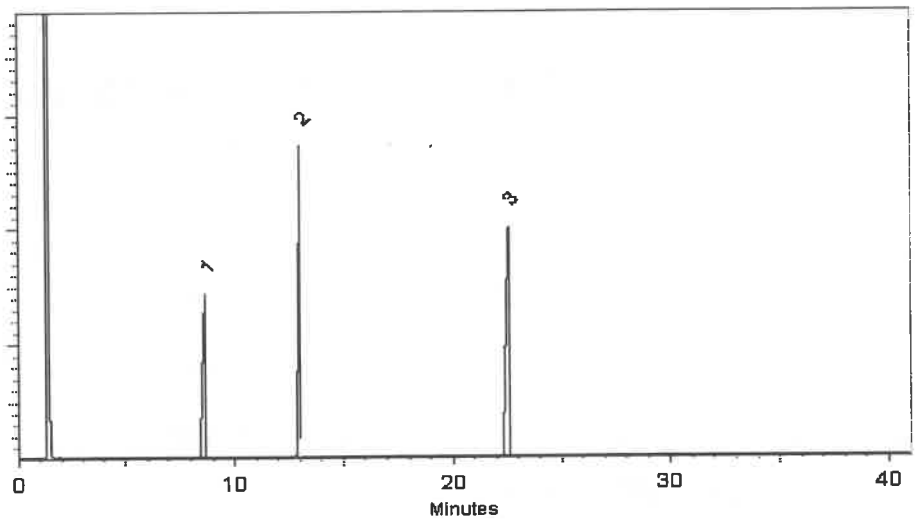
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

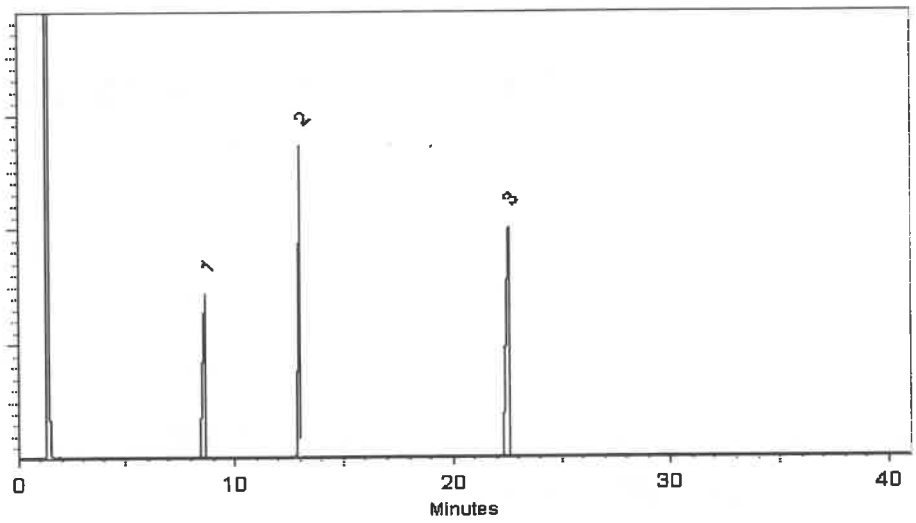
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

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S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

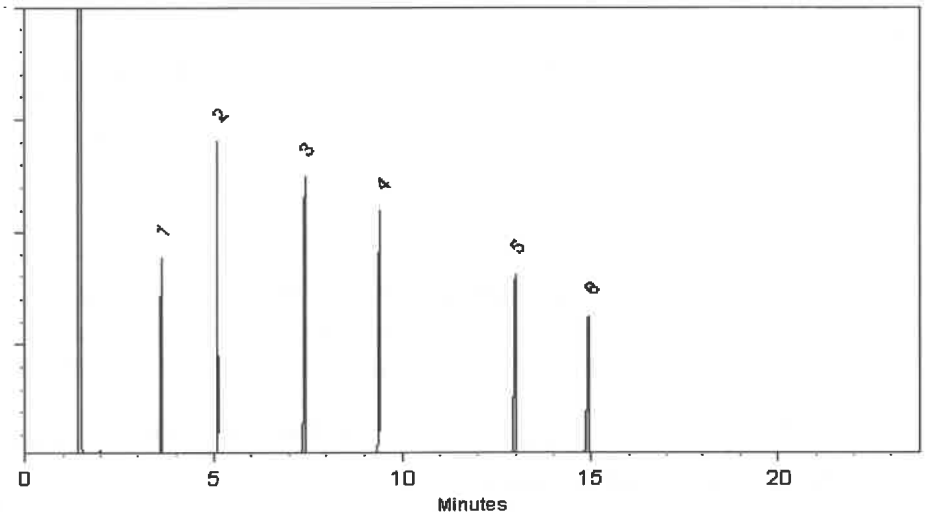
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

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

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

Quality Confirmation Test

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

Carrier Gas:
hydrogen-constant pressure 10 psi.

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

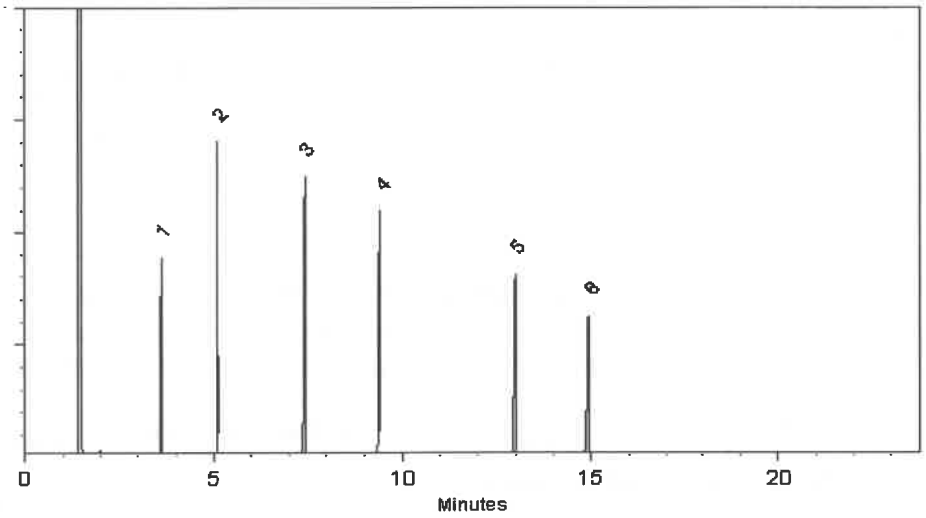
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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Certificate #3222.02

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

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

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

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

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

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P5166

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: PO#
ADDRESS: 4433 Corporation Ln, Suite 300	PROJECT #: 112G08005-WE13 LOCATION: RW5B	ADDRESS:
CITY: Virginia Beach STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu	CITY: STATE: ZIP:
ATTENTION: Ernie Wu	E-MAIL: ernie,wu@tetratech.com	ATTENTION: PHONE:
PHONE: 757-466-4901 FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148	

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
1,4-Dioxane SW846 8270 SIM									

PRESERVATIVES

	1	2	3	4	5	6	7	8	9
		B							

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	2	3	4	5	6	7	8	9
1.	RW5-SP100-20241206	GW		x	12/6/24	12:45	1	x								
2.	RW5-SP201-20241206	GW		x	12/6/24	12:47	1	x								
3.	RW5-SP303-20241206	GW		x	12/6/24	12:53	1	x								
4.																
5.																
6.																
7.																
8.																
9.																
10.																

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	12/4/24 1300	1. 1300 12-6-24
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	12-6-24 1700	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.7c
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:
Comments:

Page of

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	#	80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

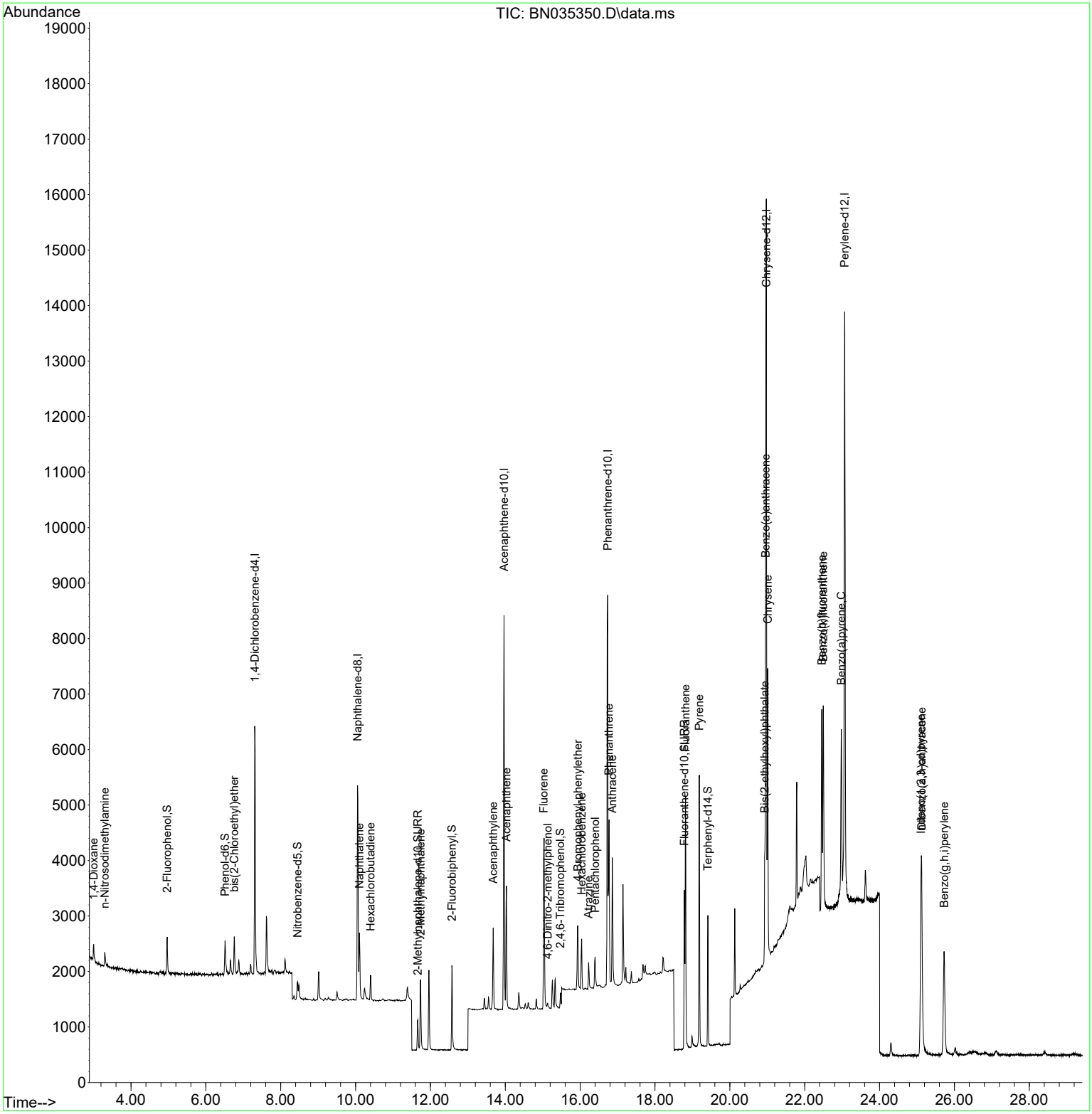
(#) = qualifier out of range (m) = manual integration (+) = signals summed

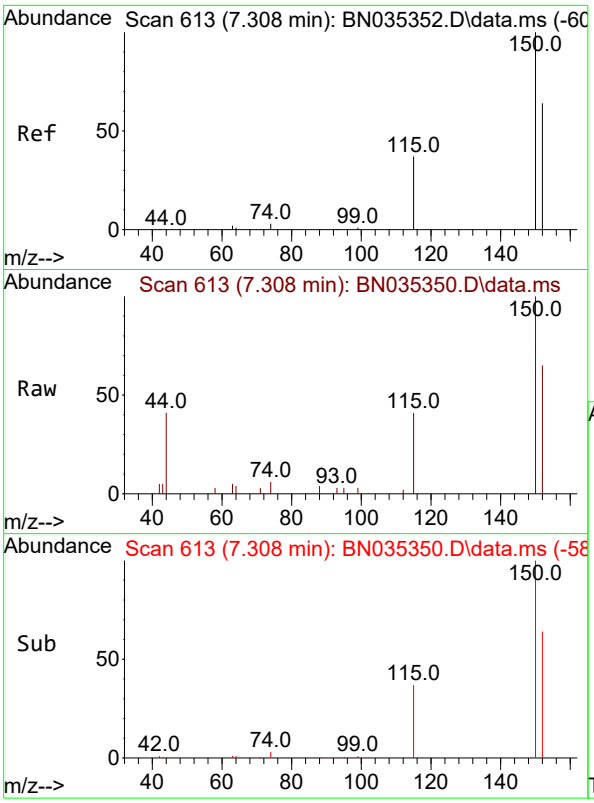
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



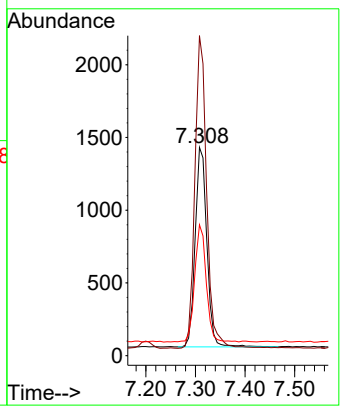


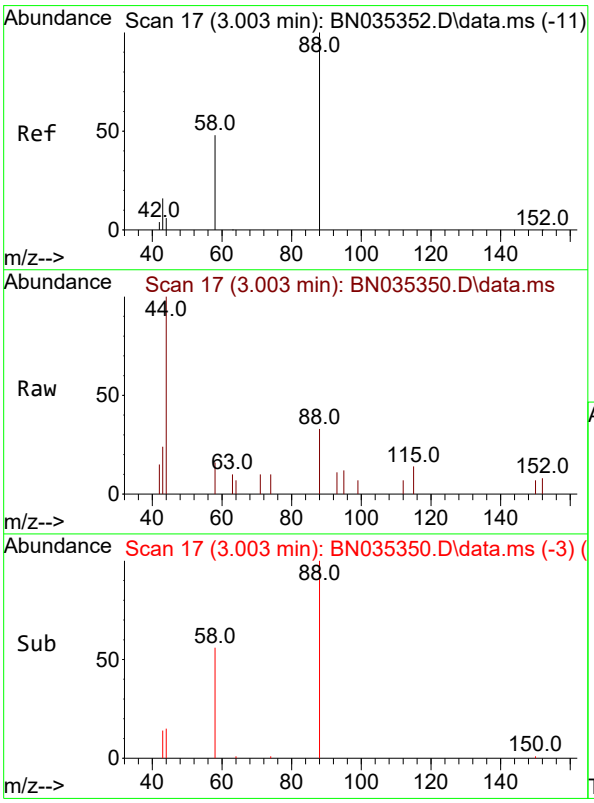
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2237

Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4

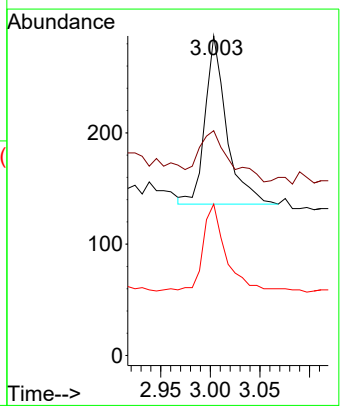


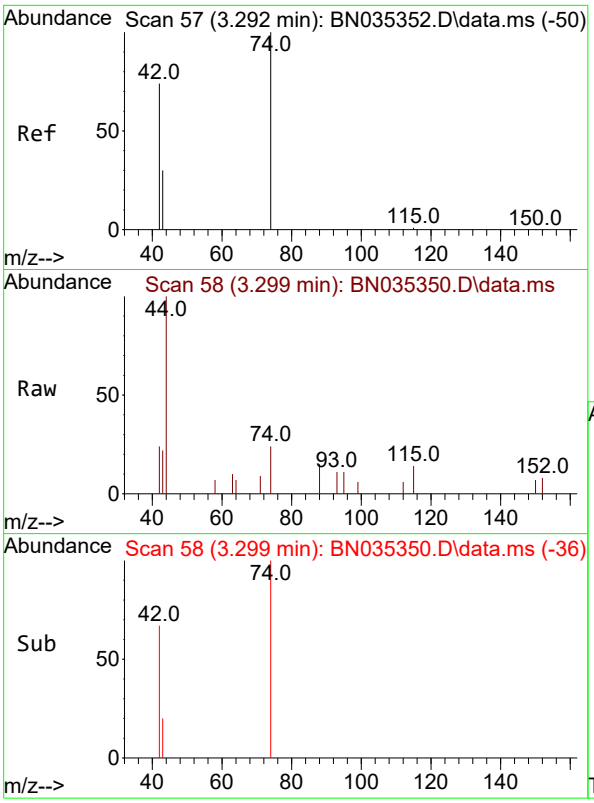


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

Ion	Ratio	Lower	Upper
88	100		
43	41.4	17.2	25.8#
58	54.6	44.5	66.7



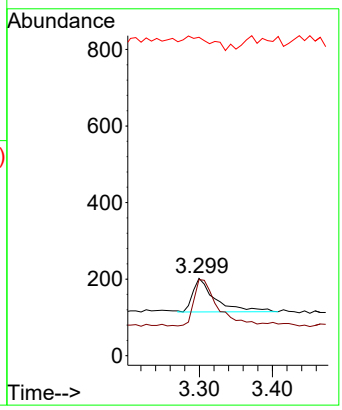


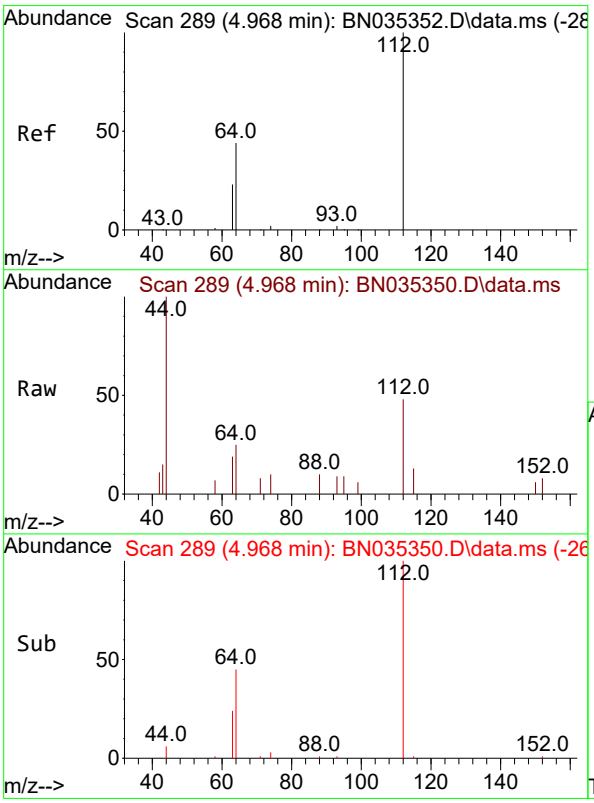
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187

Ion	Ratio	Lower	Upper
42	100		
74	146.5	124.9	187.3
44	51.9	2.2	3.4#

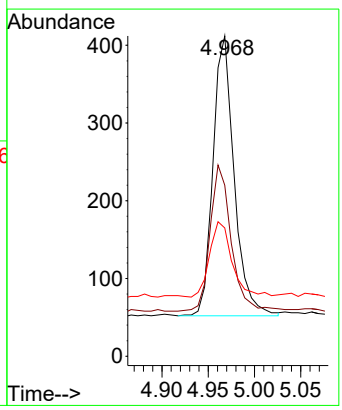


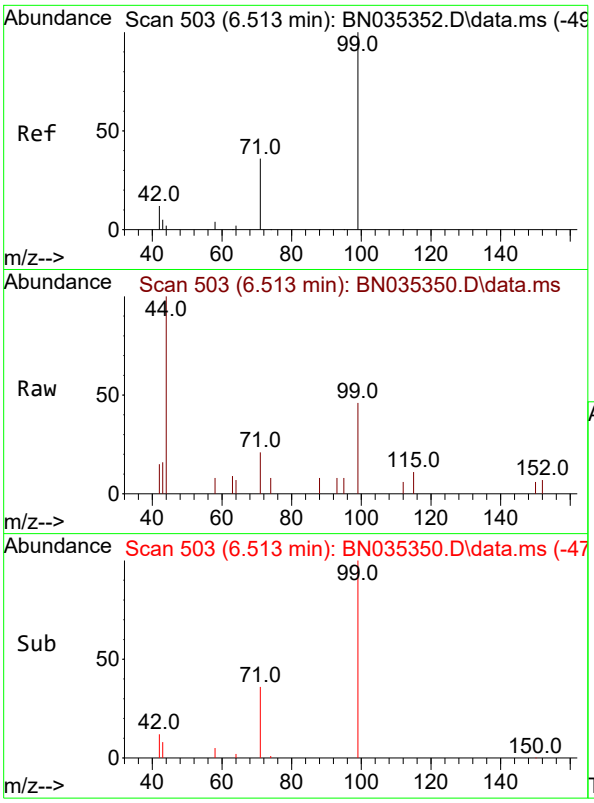


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6



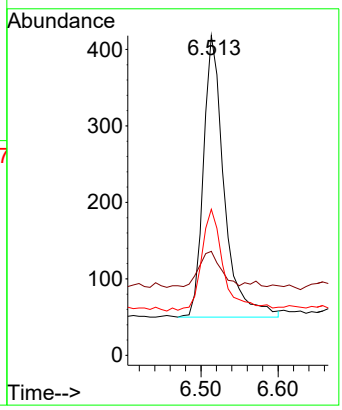


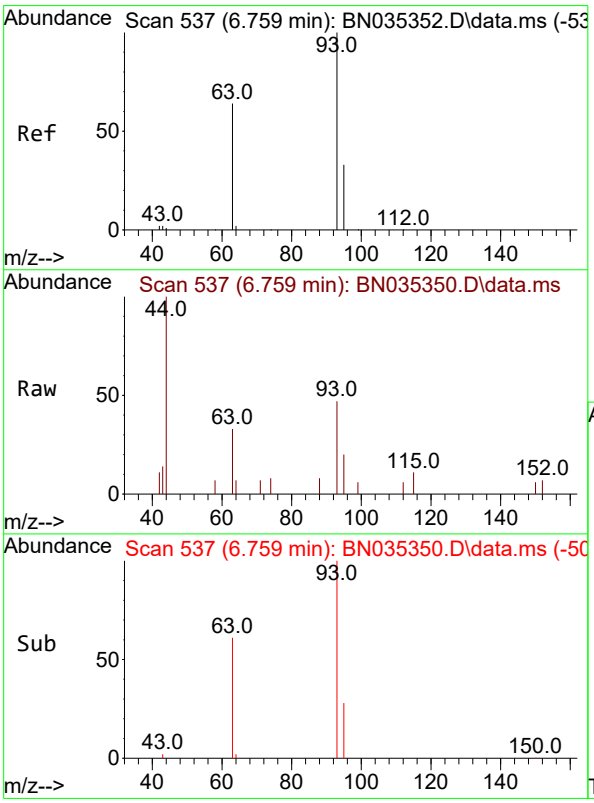
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 686

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.9	29.3	43.9

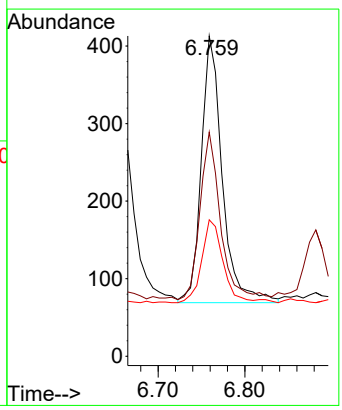


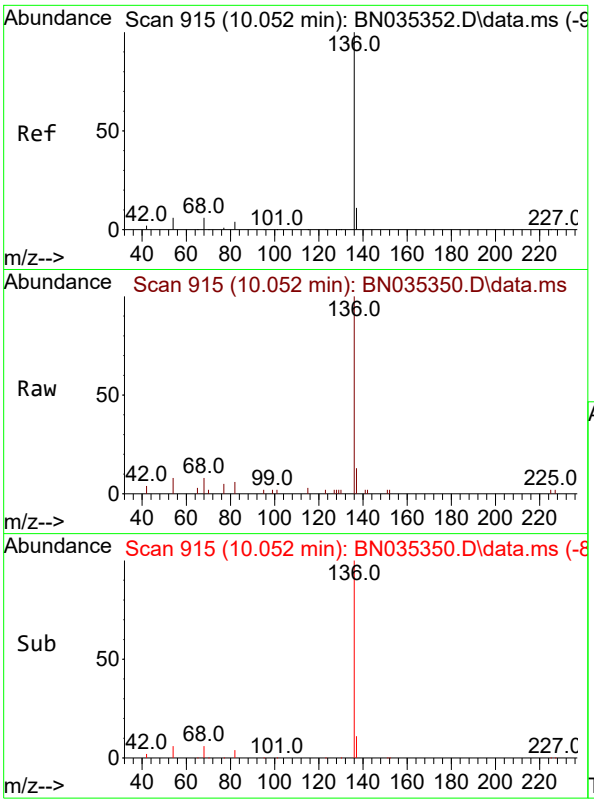


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.3	25.7	38.5



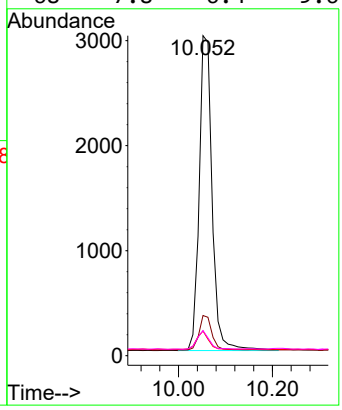


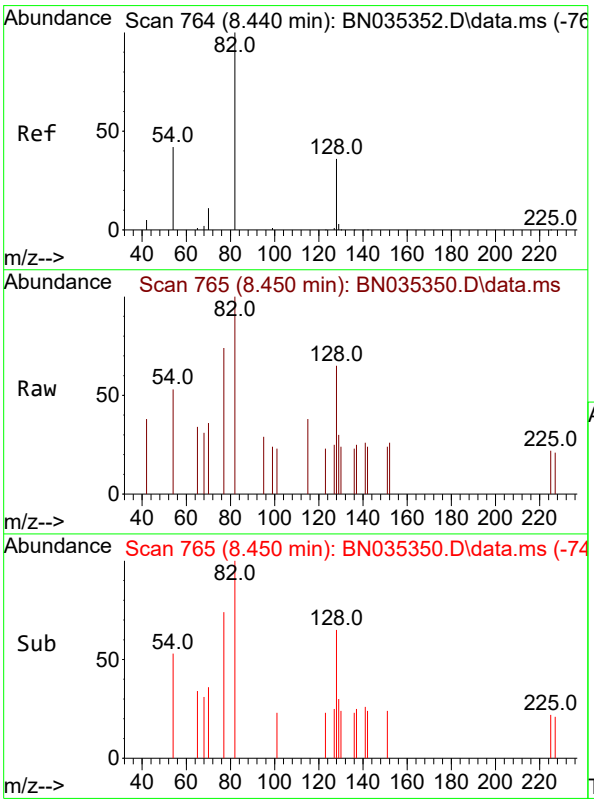
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5753

Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

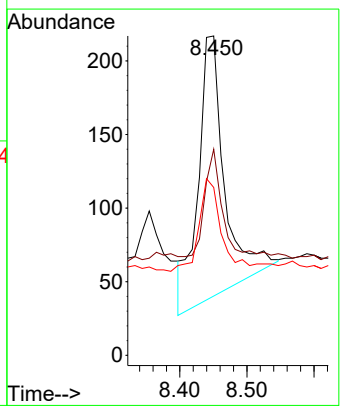


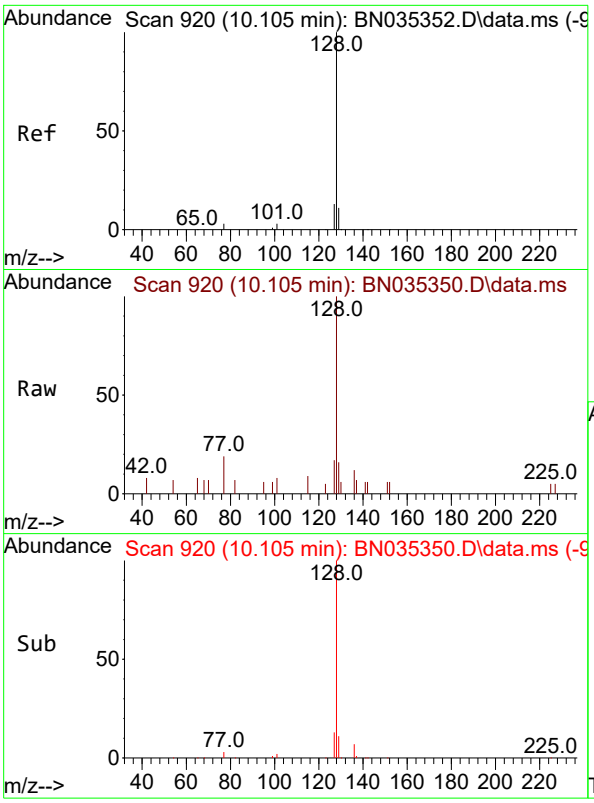


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0#
54	52.5	36.7	55.1



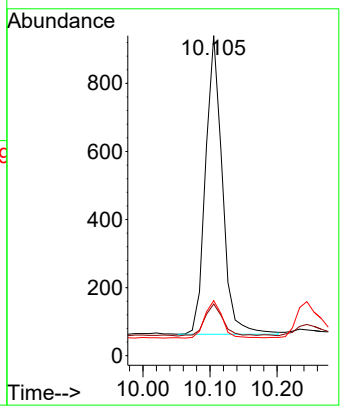


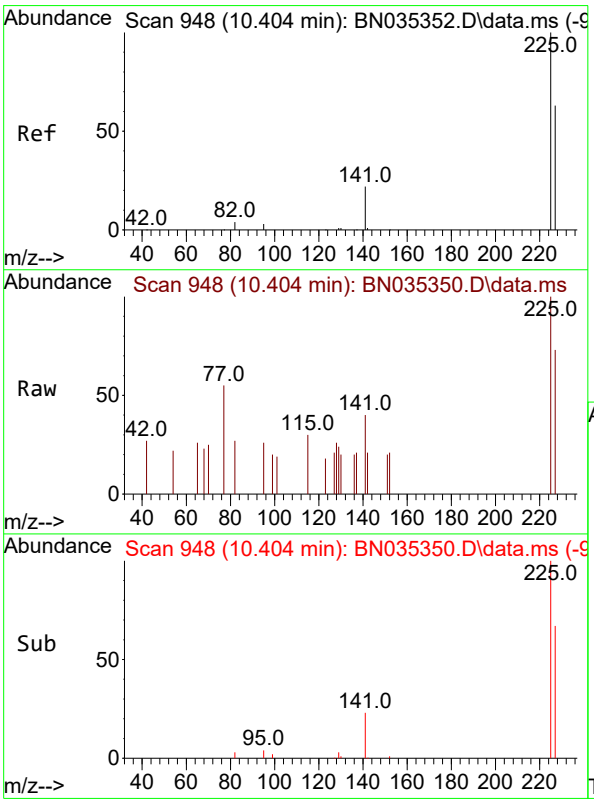
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1527

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.8	14.6#
127	17.2	11.4	17.2#

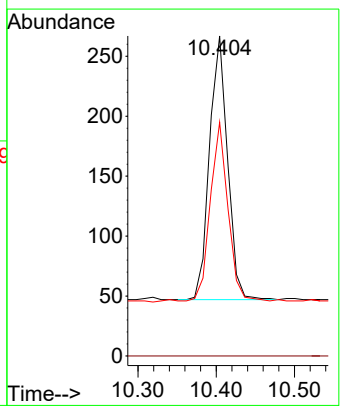


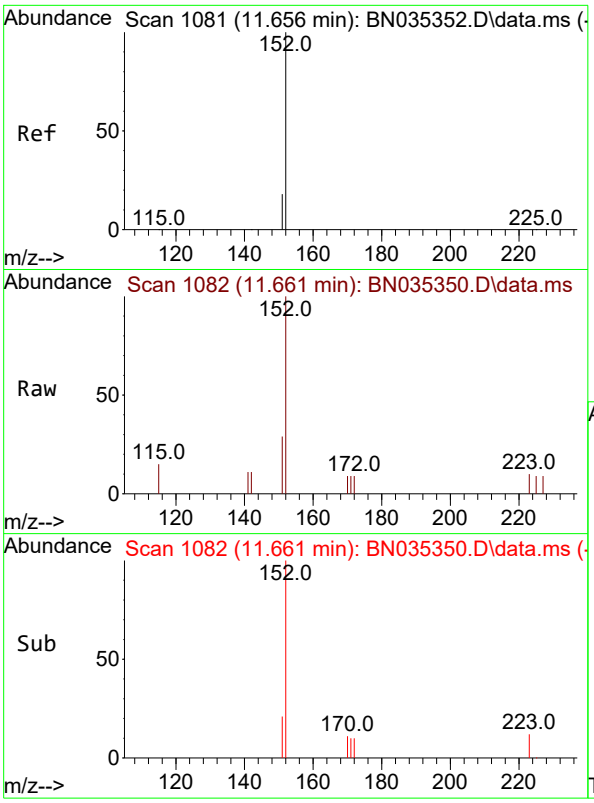


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	51.3	76.9



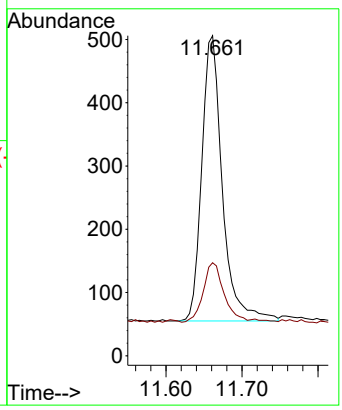


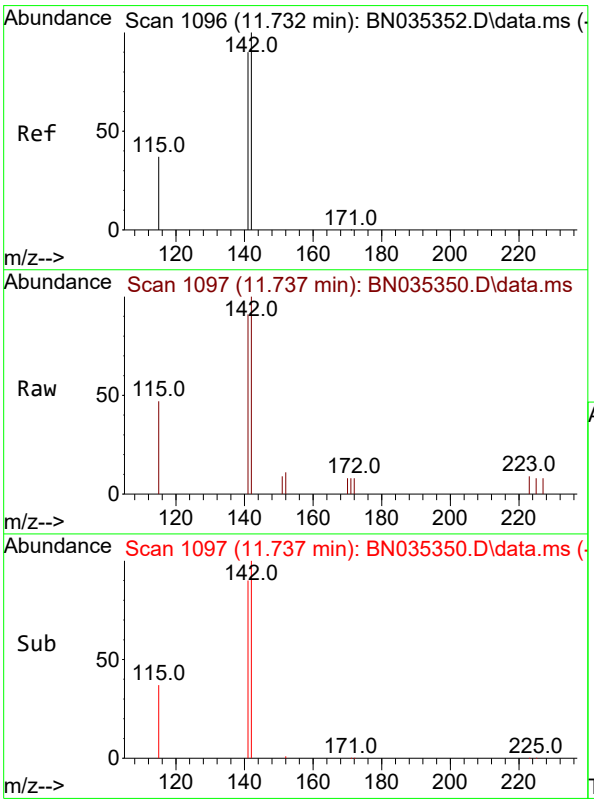
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

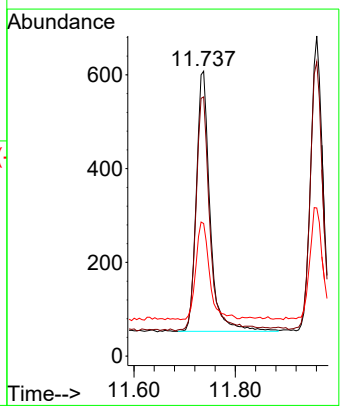


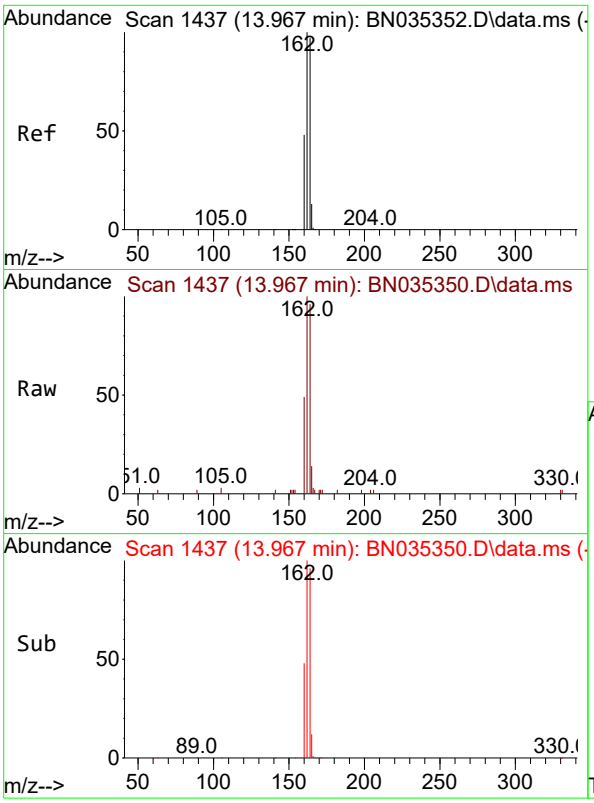


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	46.5	31.4	47.0



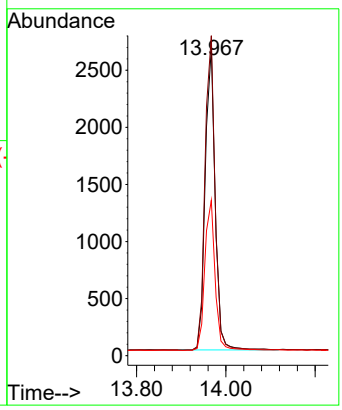


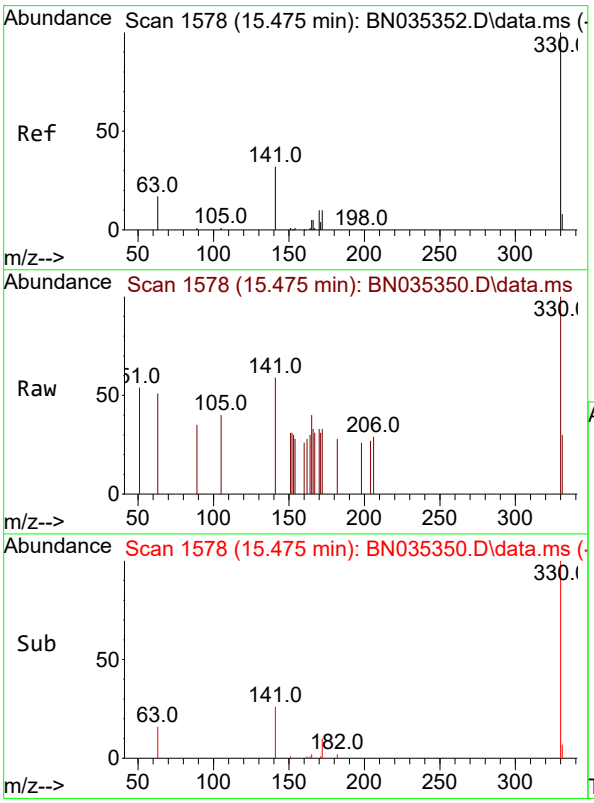
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 4077

Ion	Ratio	Lower	Upper
164	100		
162	103.9	82.2	123.2
160	50.4	40.1	60.1

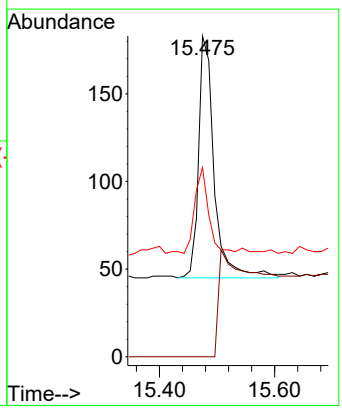


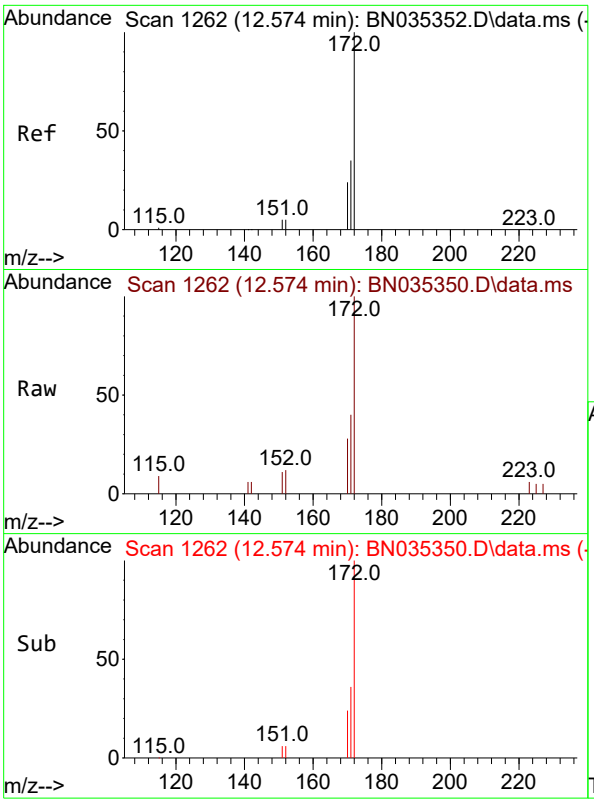


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.1	26.6	40.0



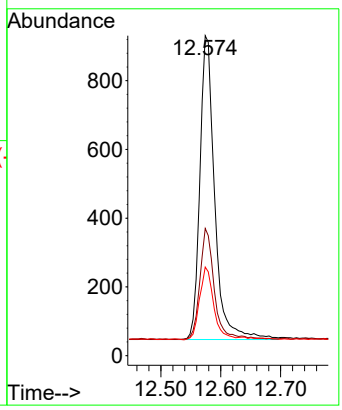


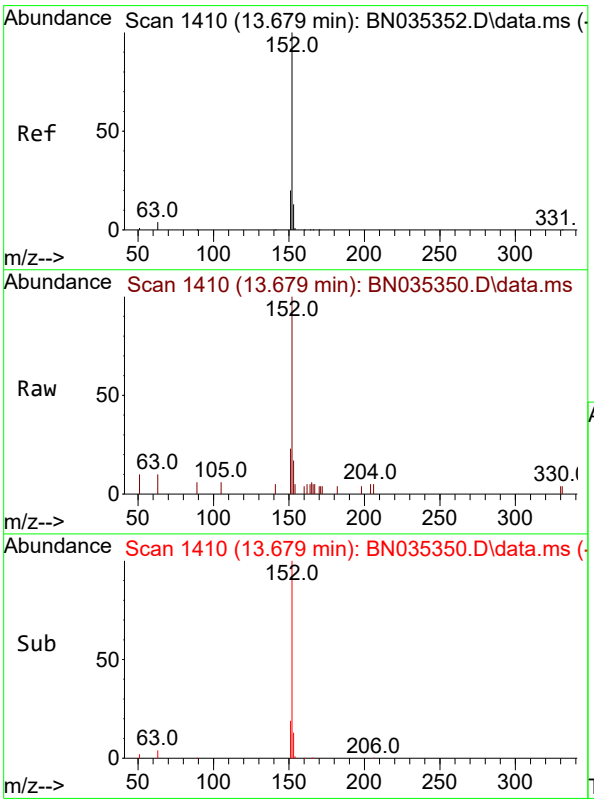
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1518

Ion	Ratio	Lower	Upper
172	100		
171	39.7	29.0	43.4
170	27.7	19.8	29.8

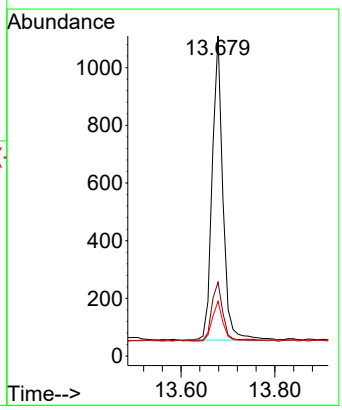


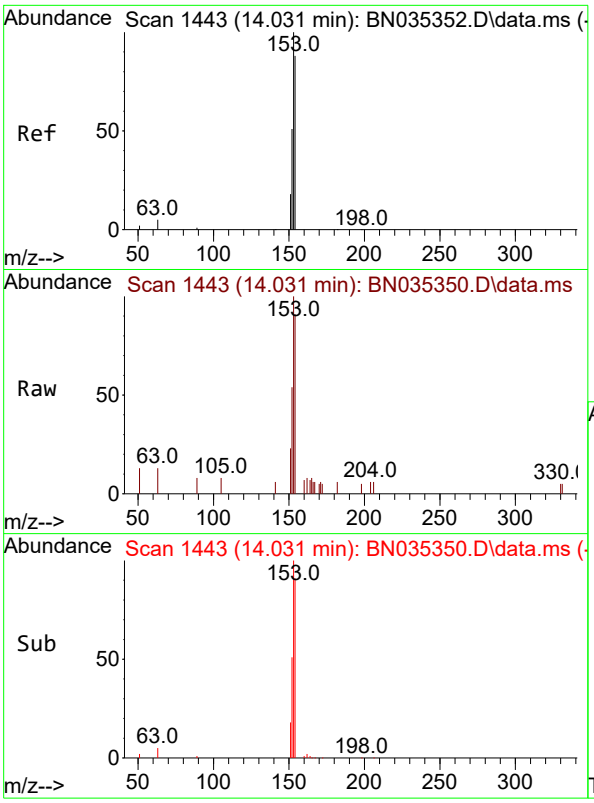


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.1	10.4	15.6



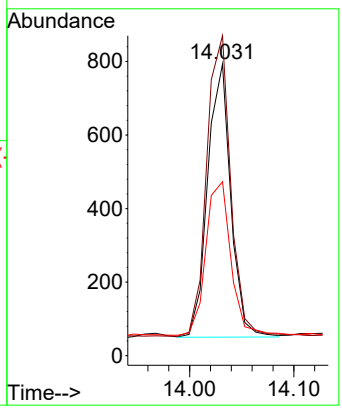


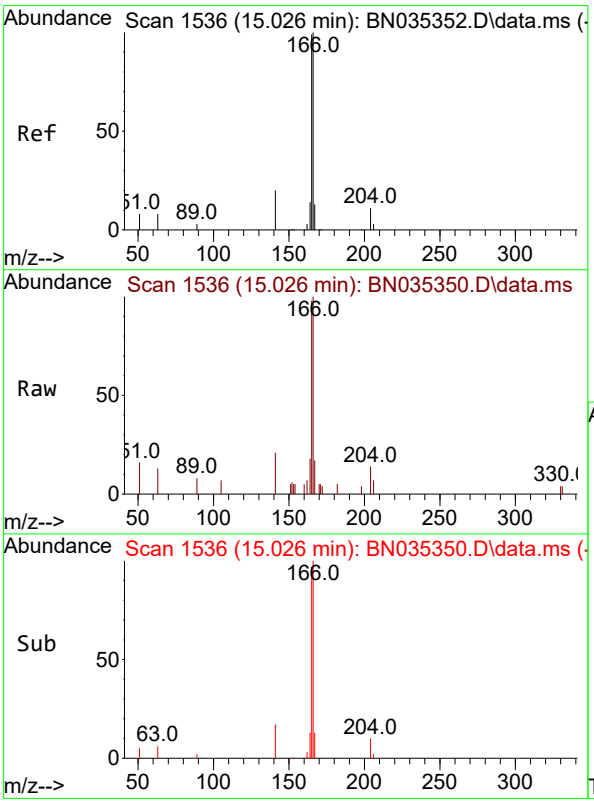
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1143

Ion	Ratio	Lower	Upper
154	100		
153	115.0	92.6	139.0
152	60.9	49.0	73.6

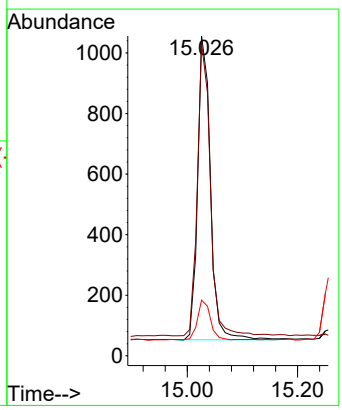


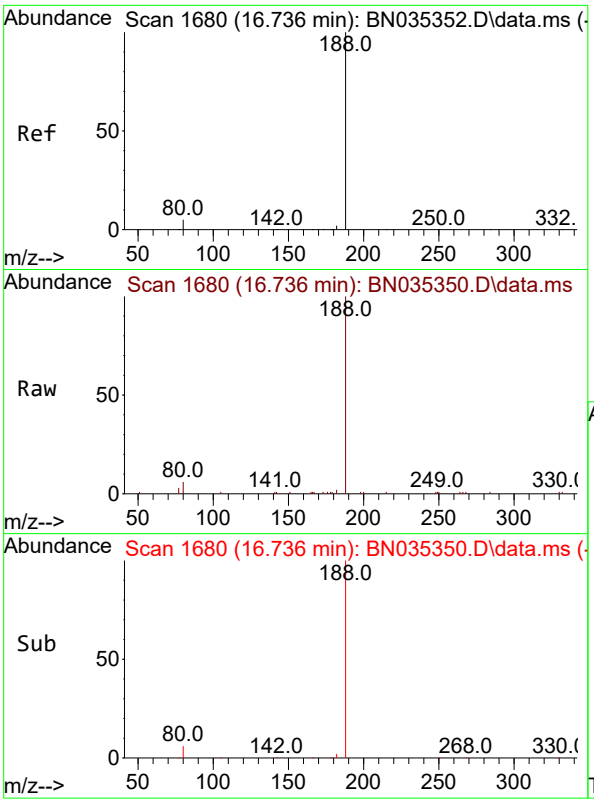


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.7	119.5
167	13.1	10.8	16.2



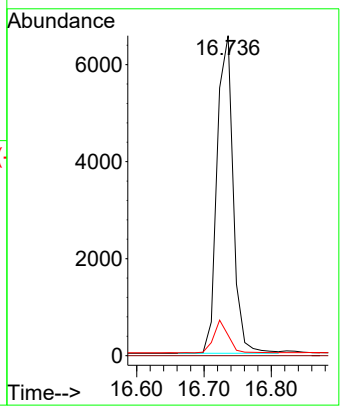


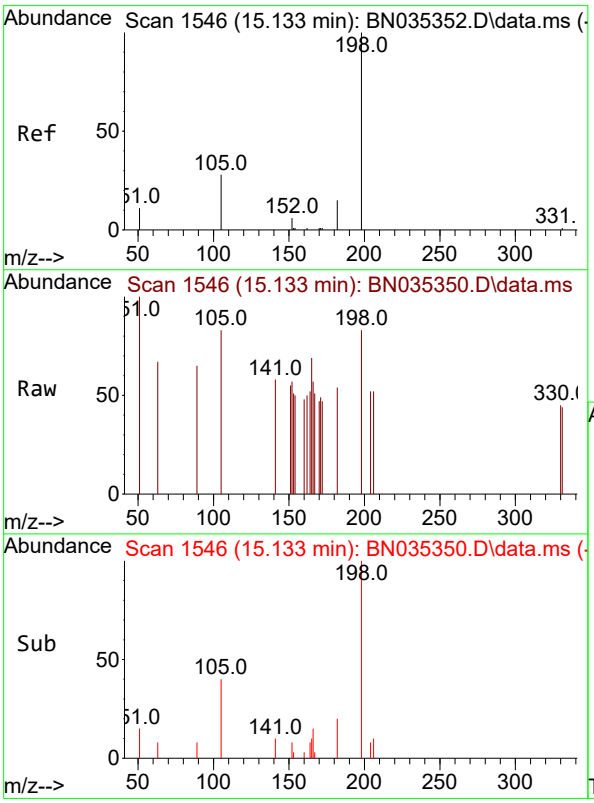
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.4	4.6	6.8

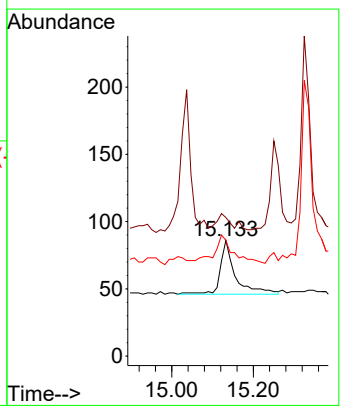


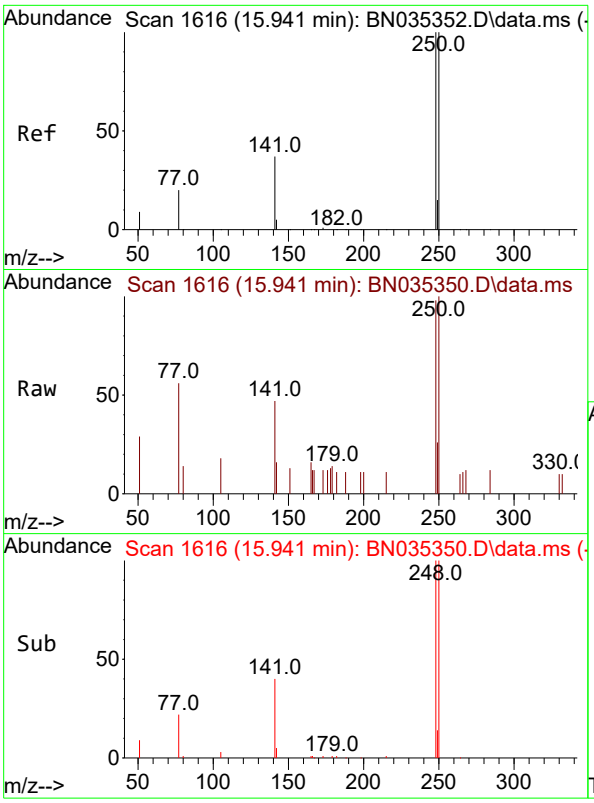


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

Ion	Ratio	Lower	Upper
198	100		
51	119.8	46.5	69.7#
105	100.0	45.3	67.9#



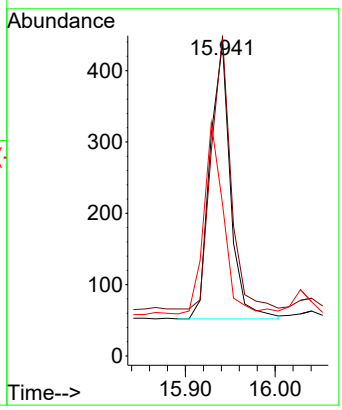


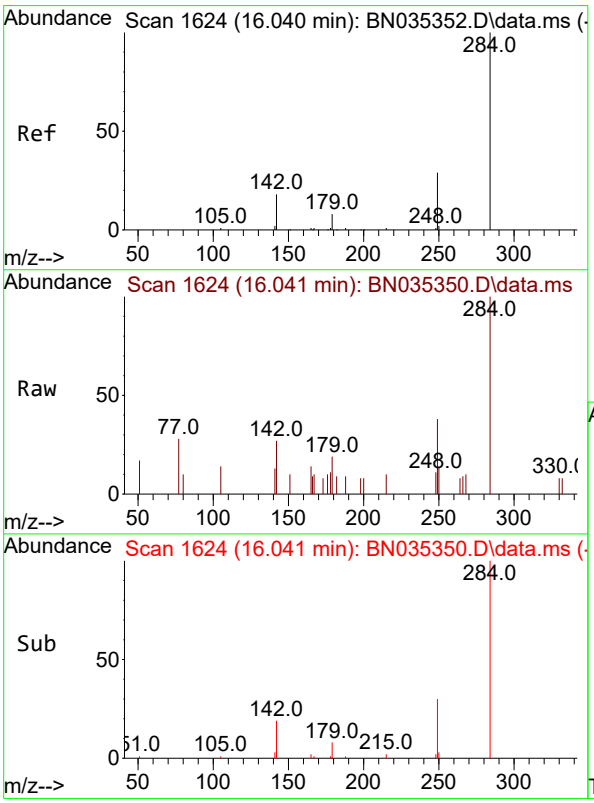
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.6	120.8
141	48.6	31.5	47.3#

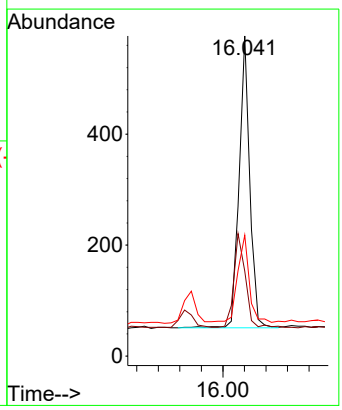


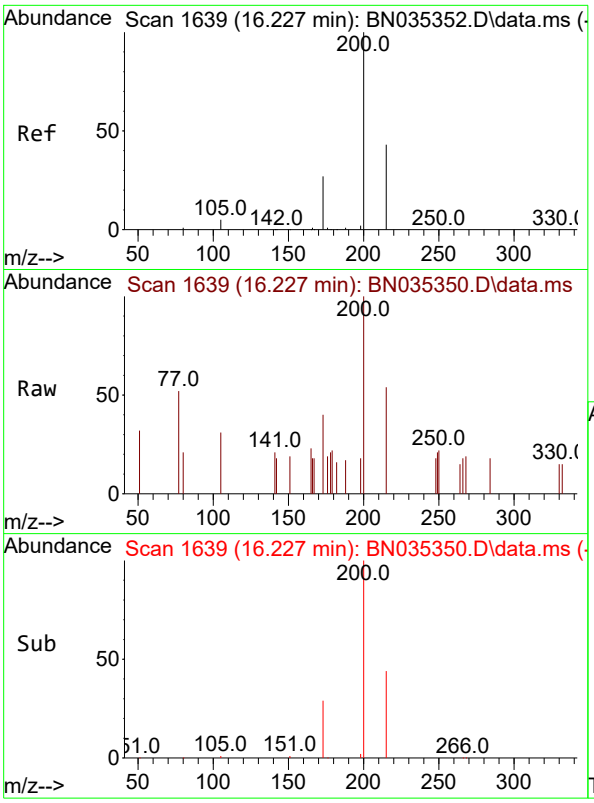


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	32.2	24.6	36.8



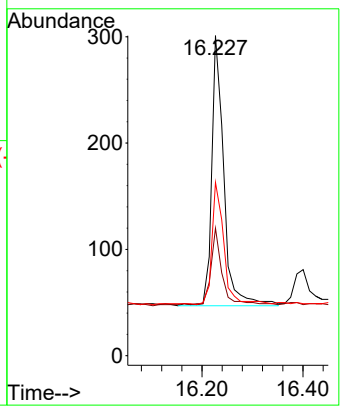


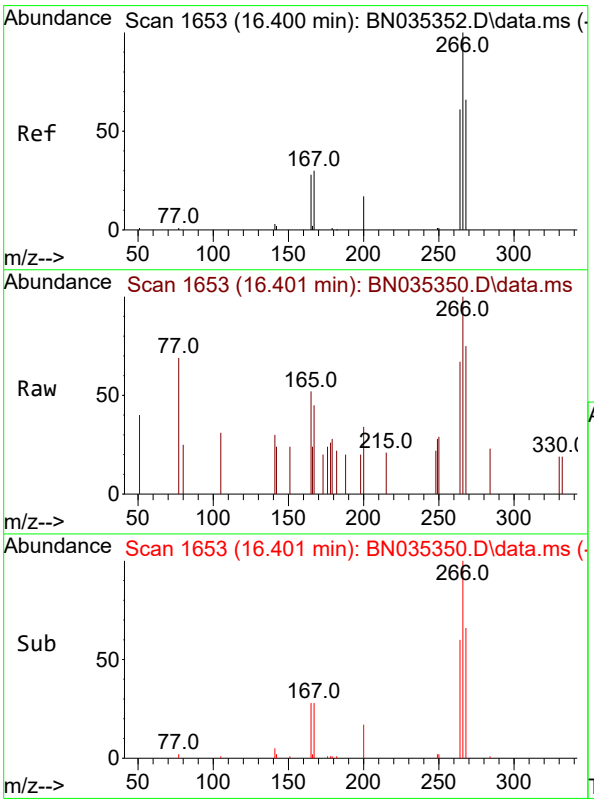
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 421

Ion	Ratio	Lower	Upper
200	100		
173	39.9	24.1	36.1#
215	54.2	36.9	55.3

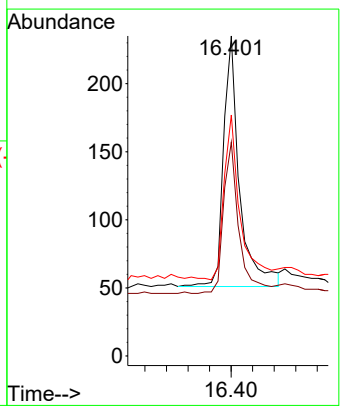


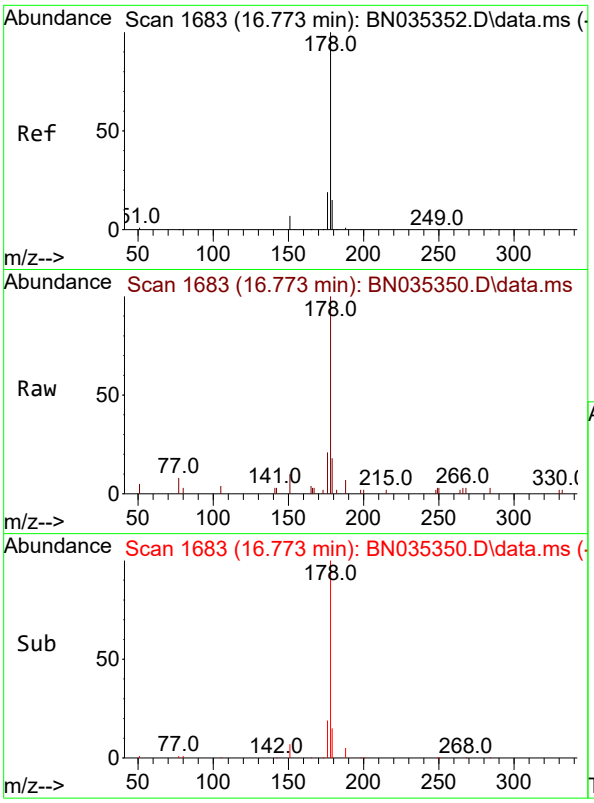


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

Ion	Ratio	Lower	Upper
266	100		
264	58.3	42.3	63.5
268	63.3	43.3	64.9



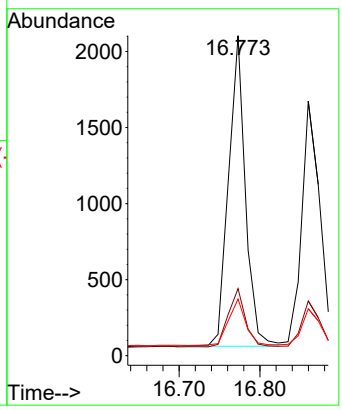


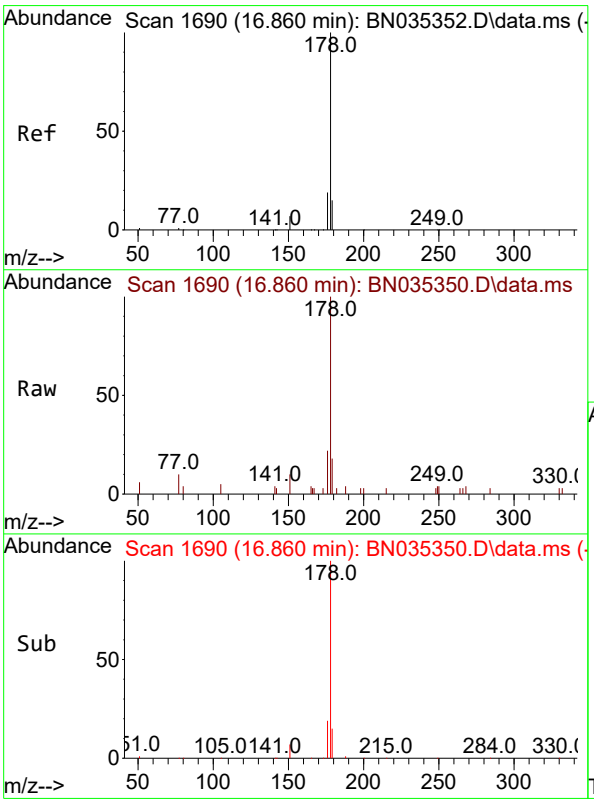
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2963

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.3	18.5

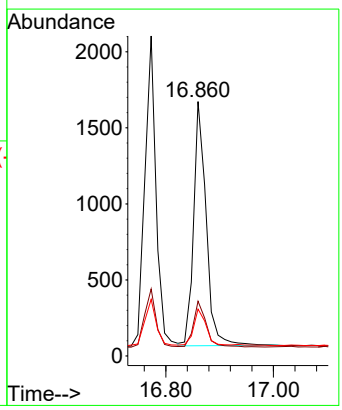


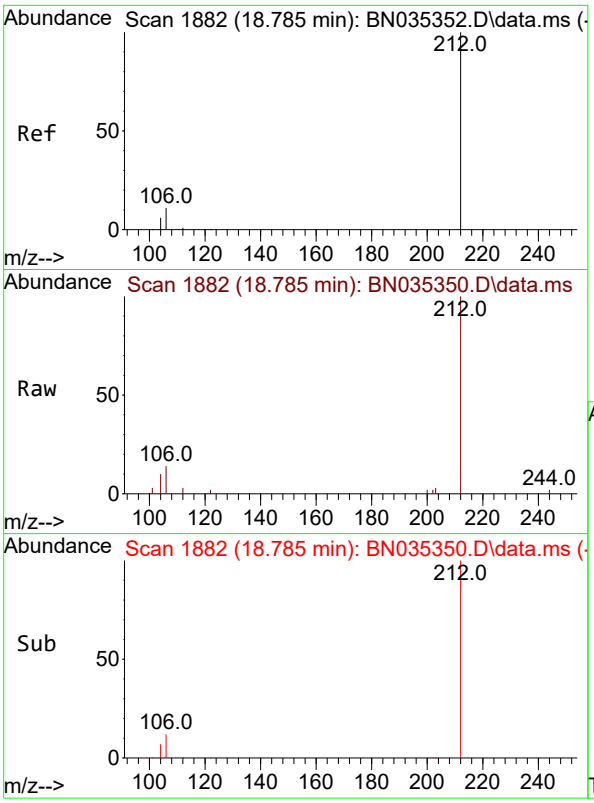


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	14.3	12.6	18.8



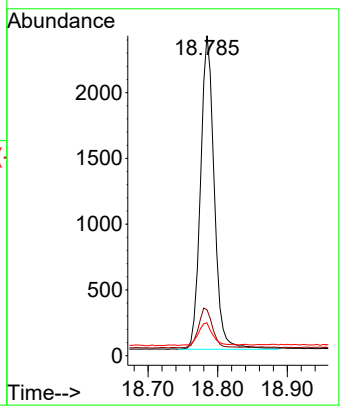


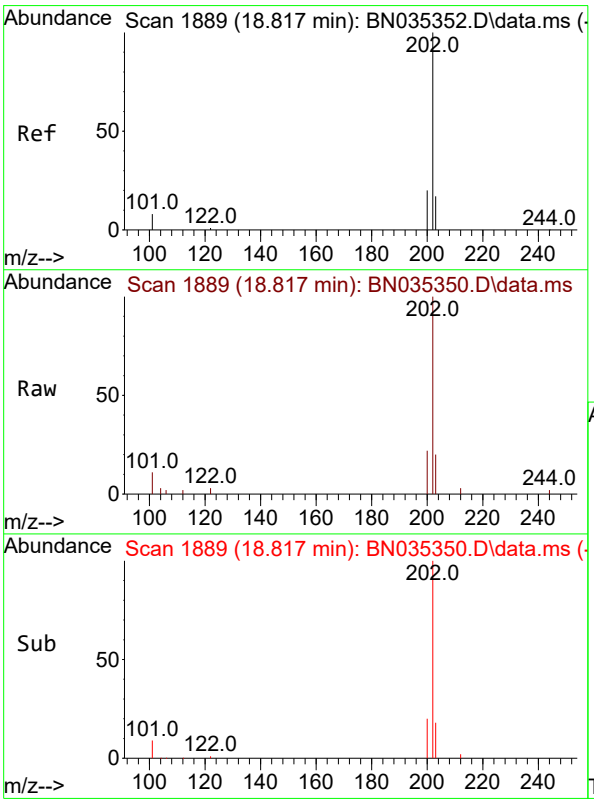
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3265

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

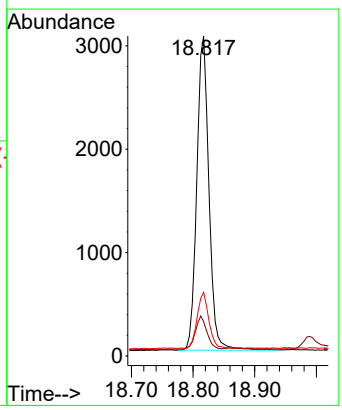


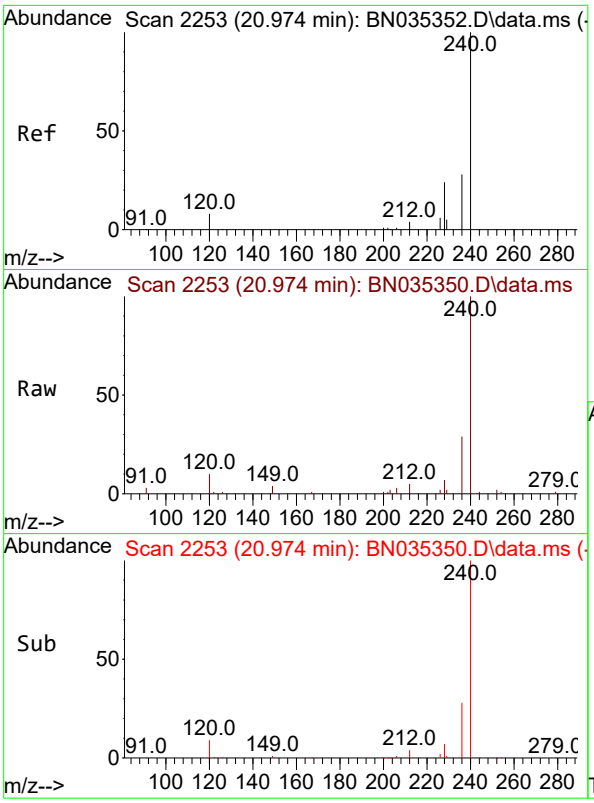


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5



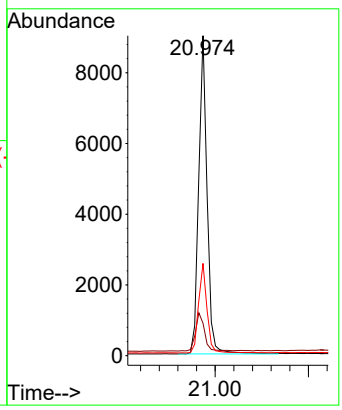


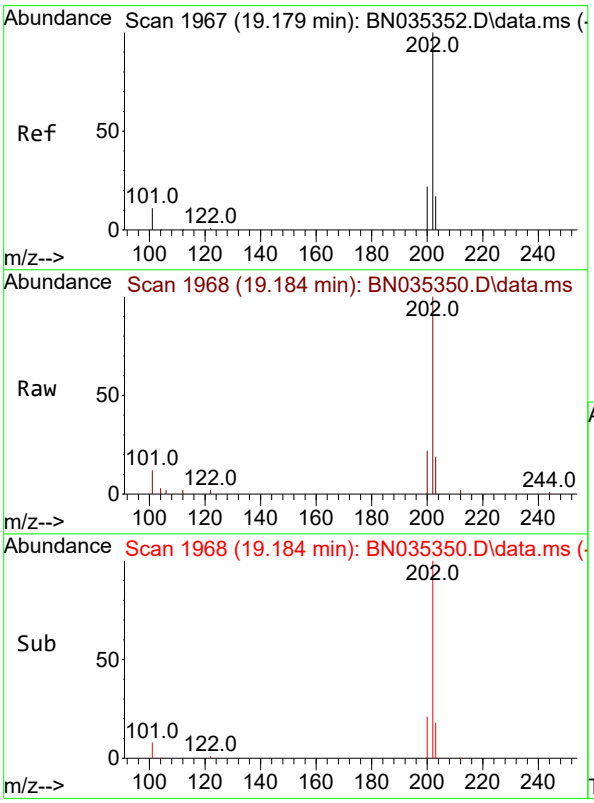
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11269

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

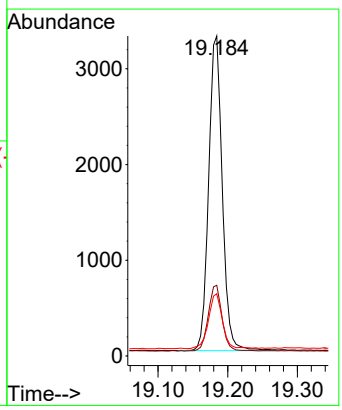


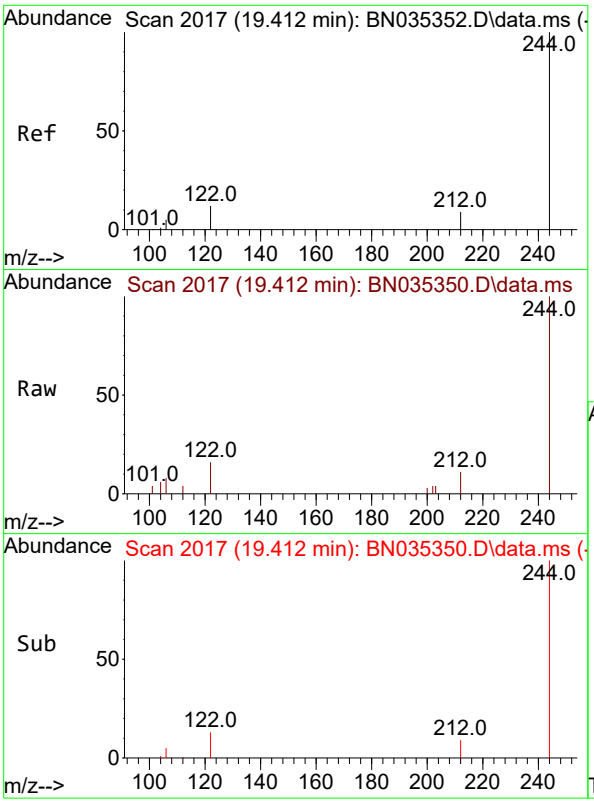


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



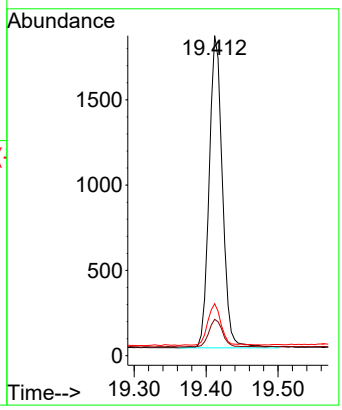


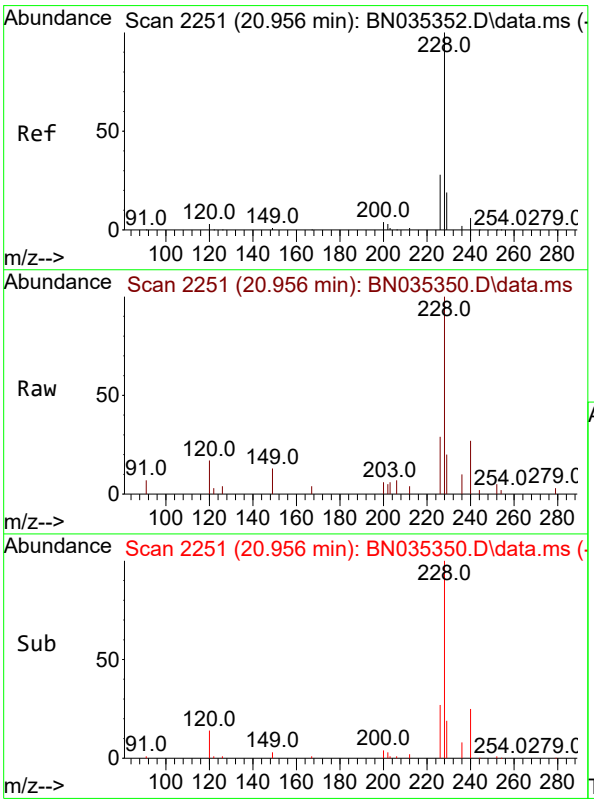
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2344

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5#

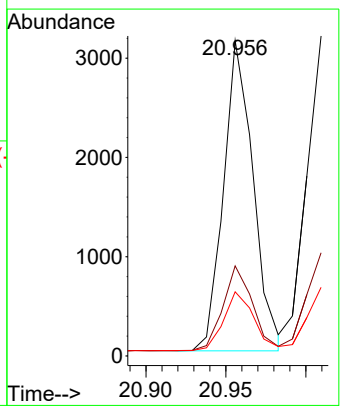


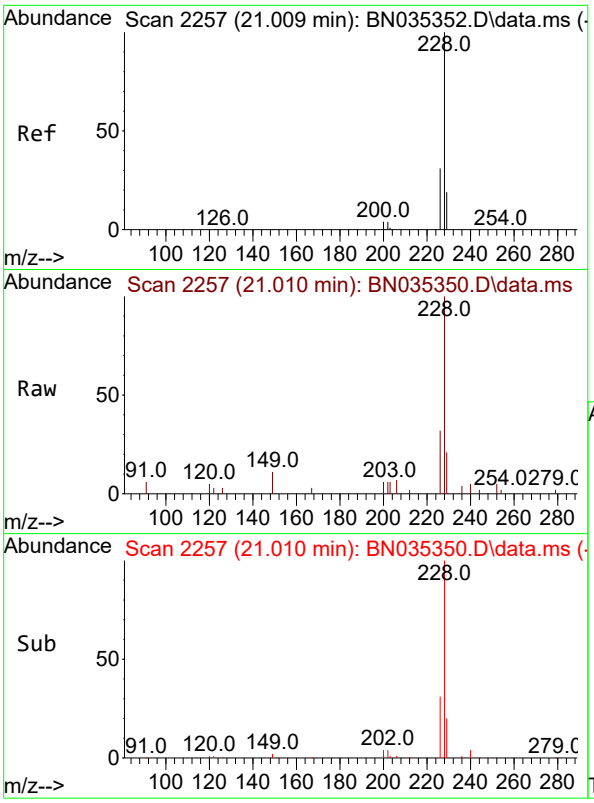


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8



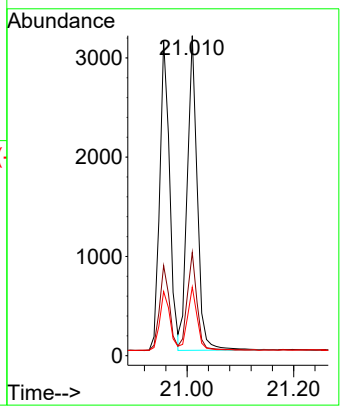


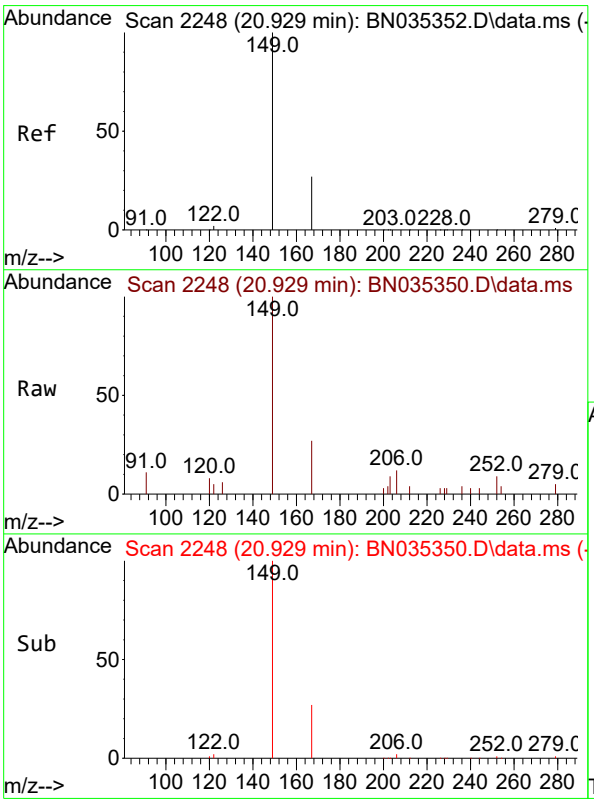
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4123

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9

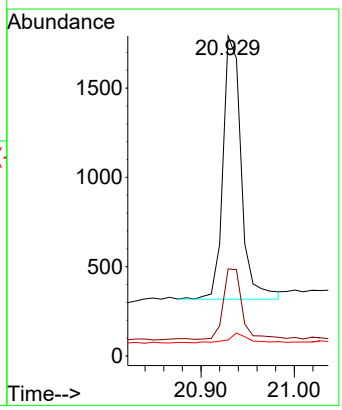


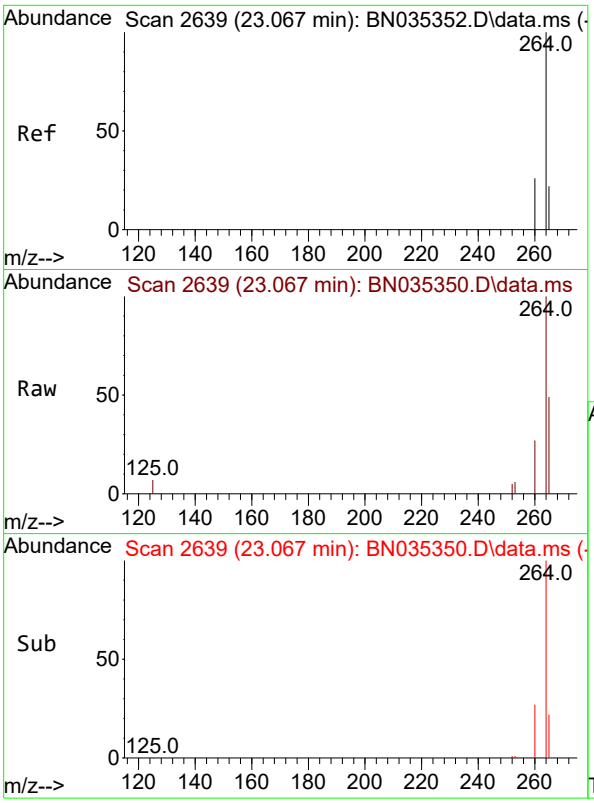


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1



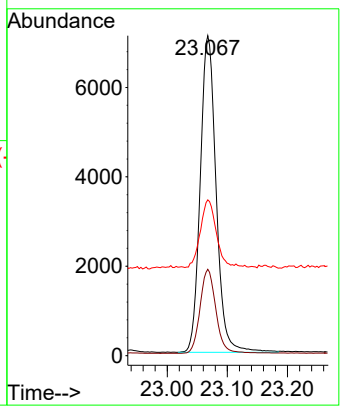


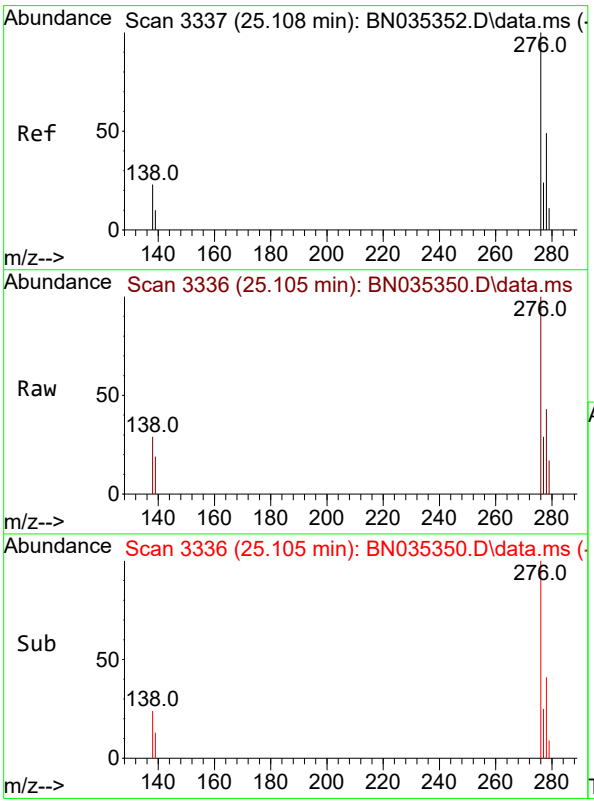
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13004

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

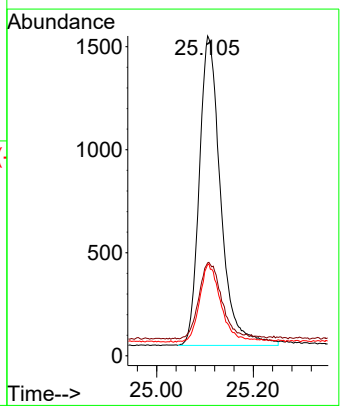


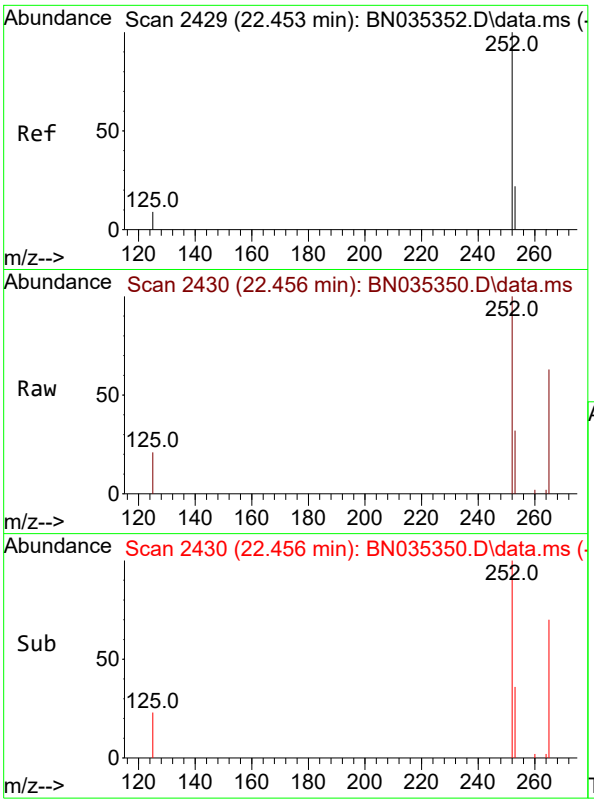


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6



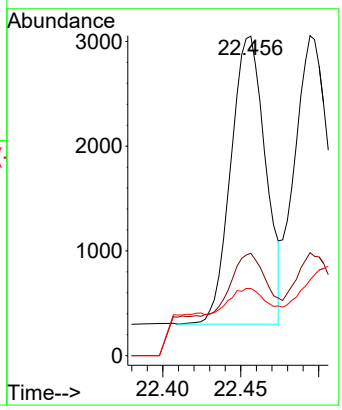


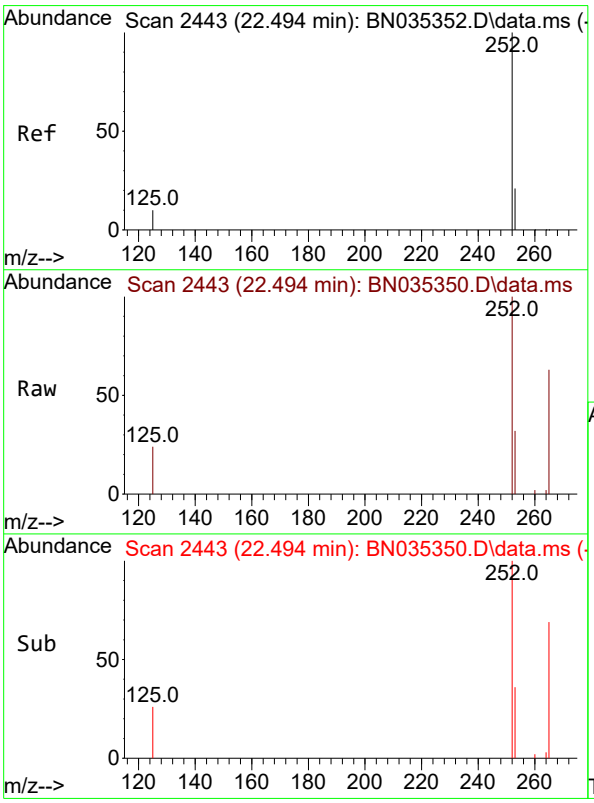
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

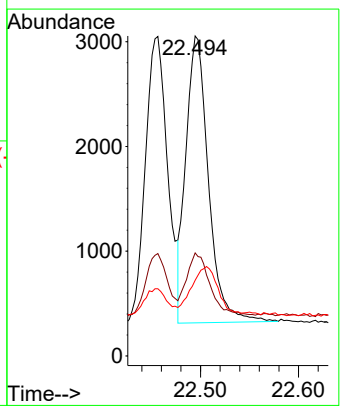


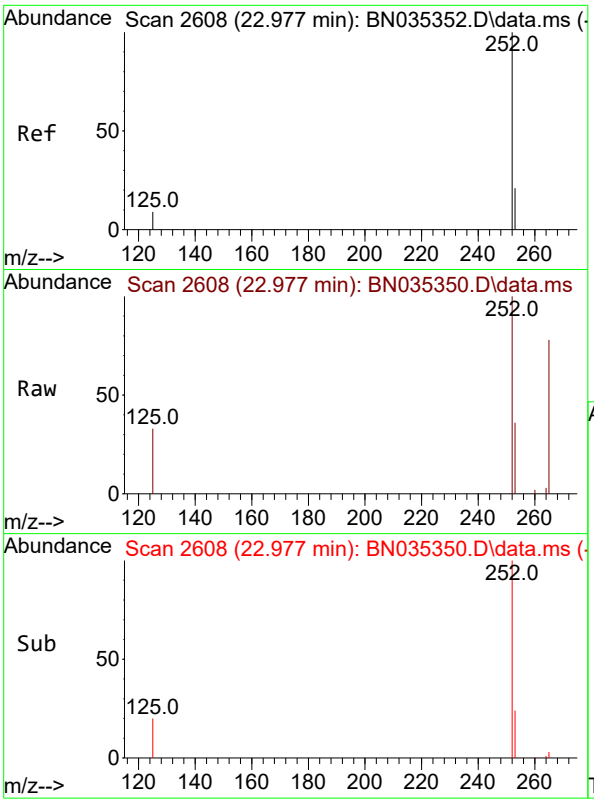


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#



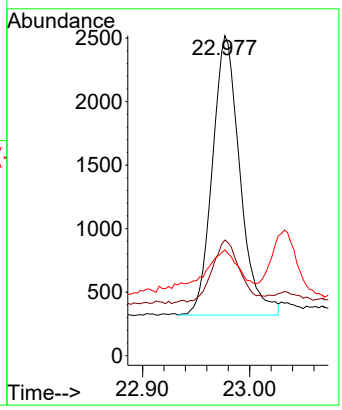


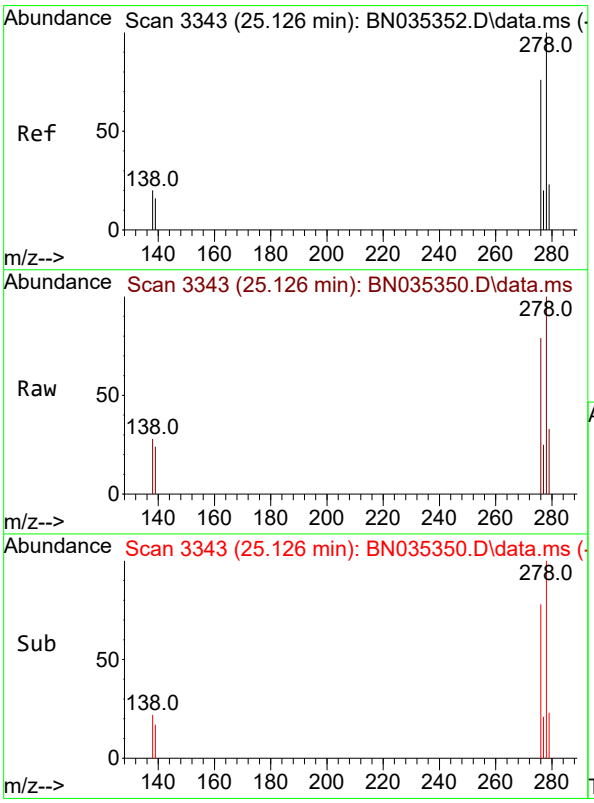
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#

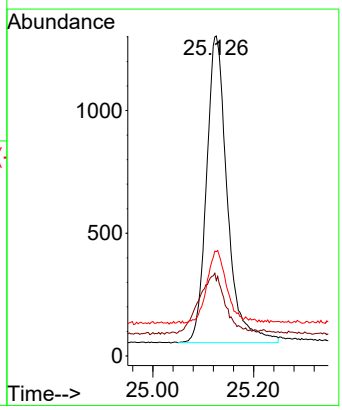


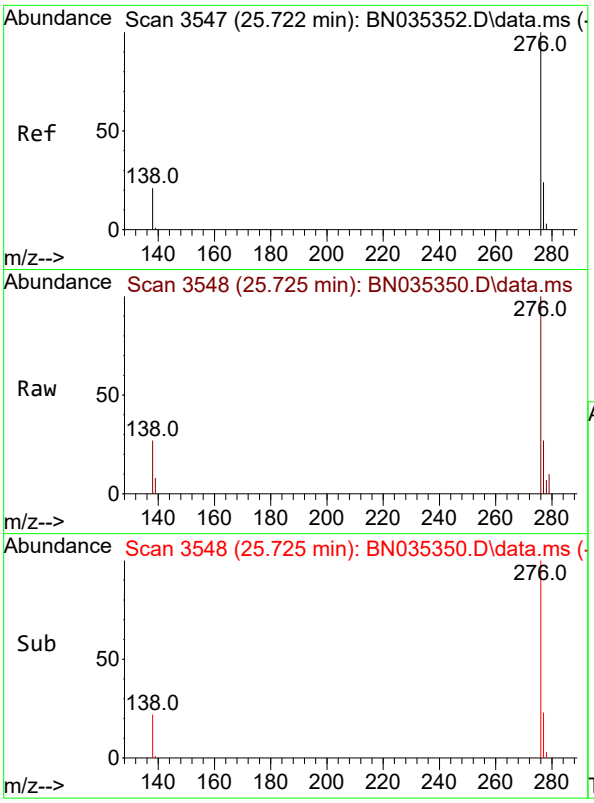


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#



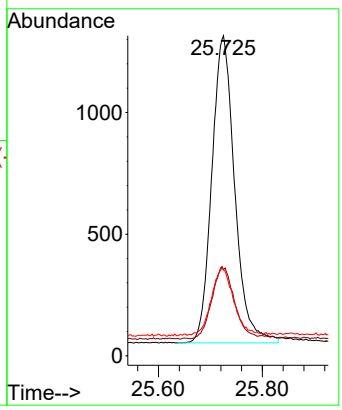


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3863

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

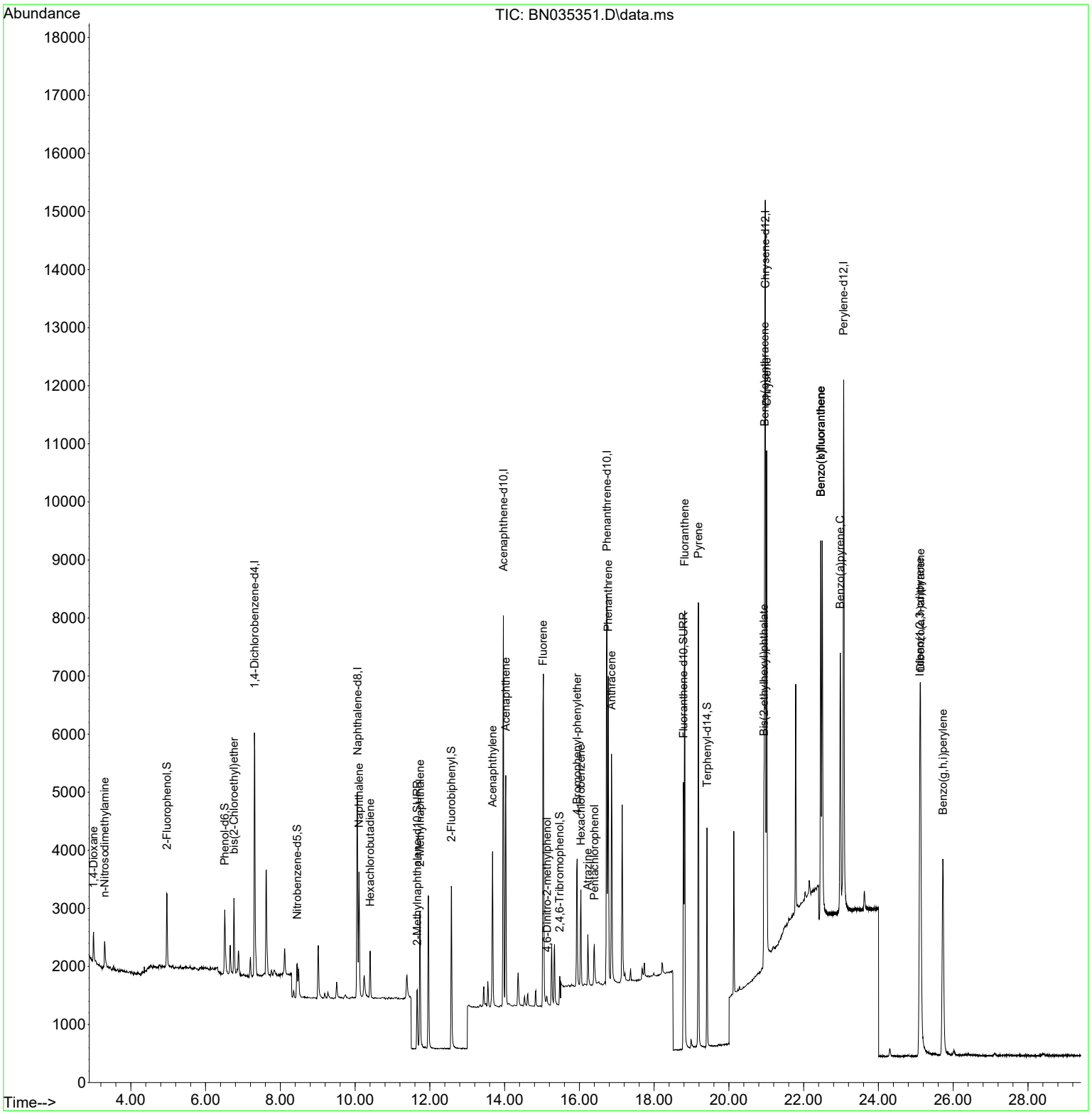
(#) = qualifier out of range (m) = manual integration (+) = signals summed

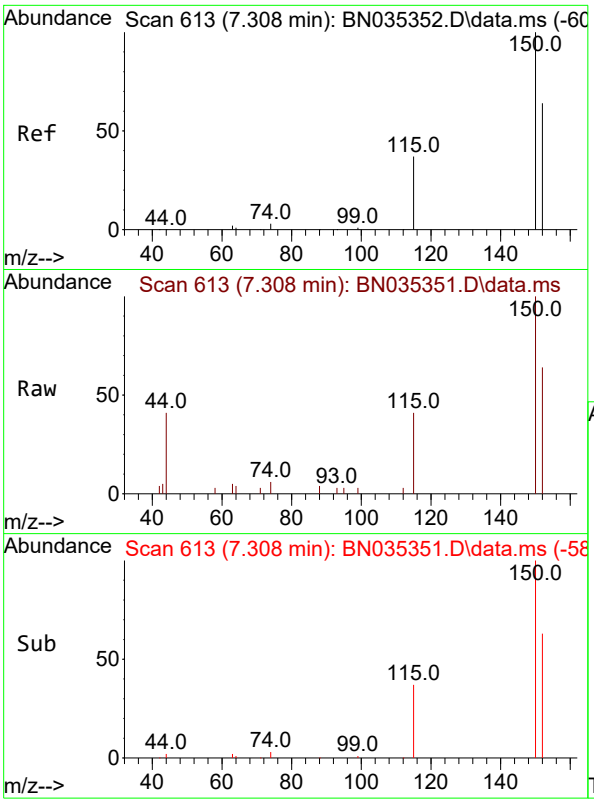
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



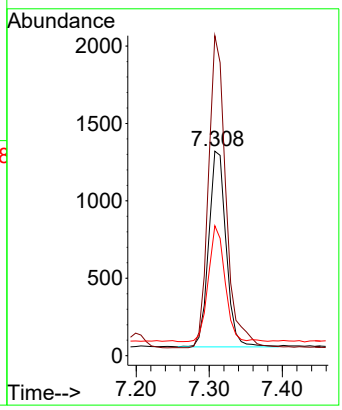


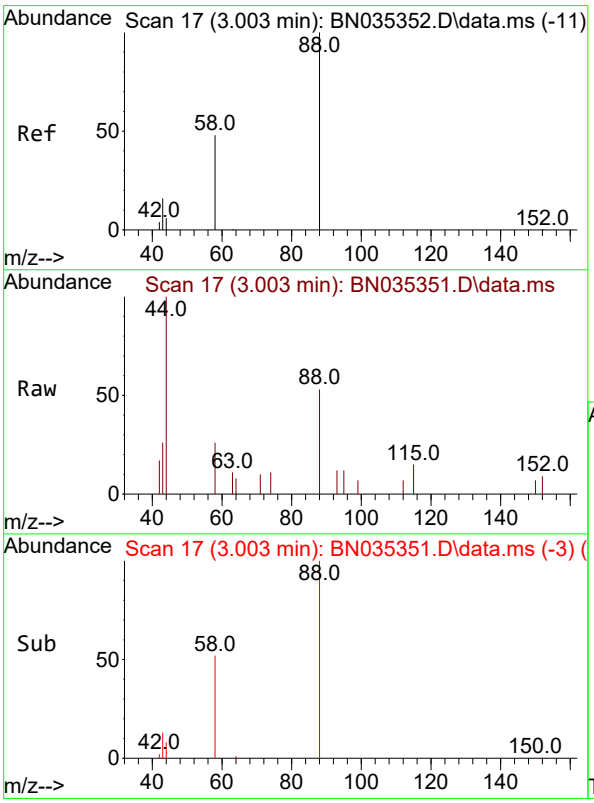
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2084

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

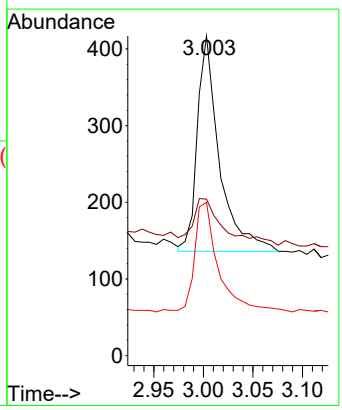


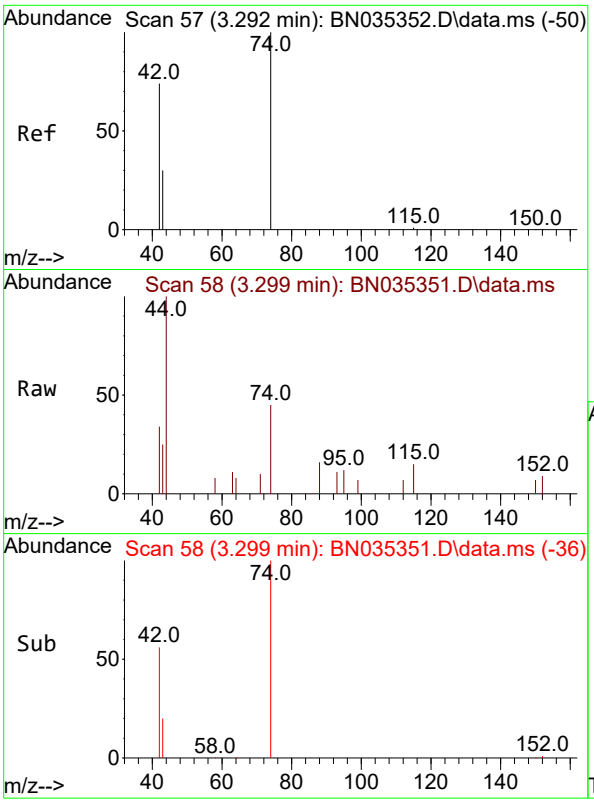


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7



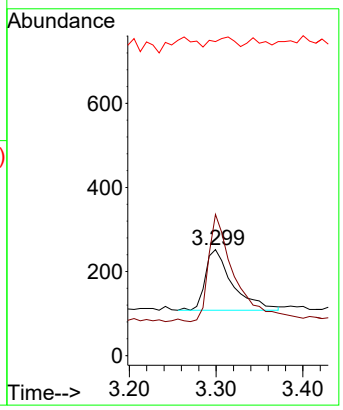


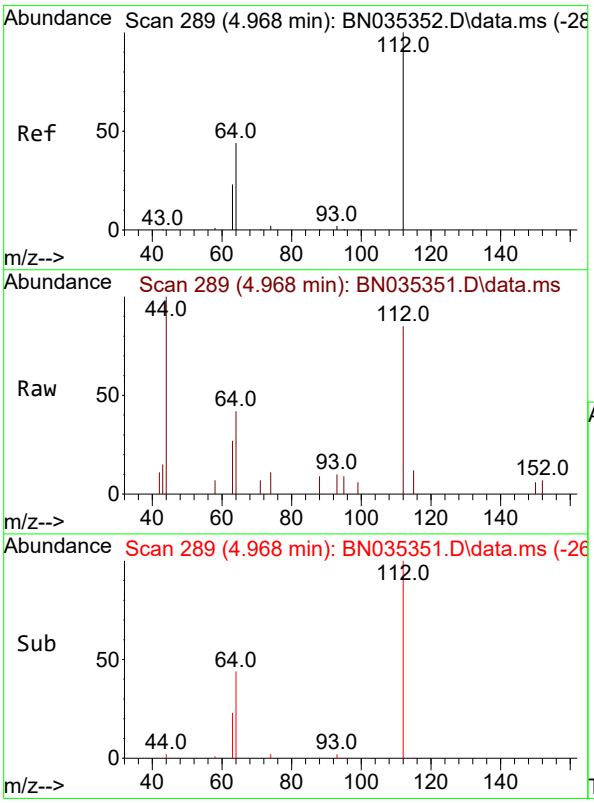
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 315

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4#

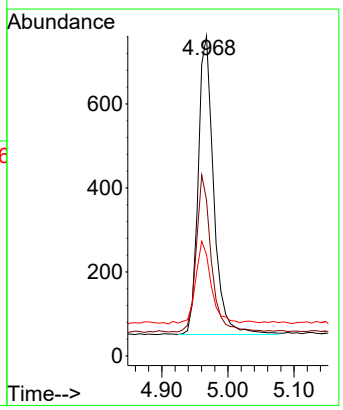


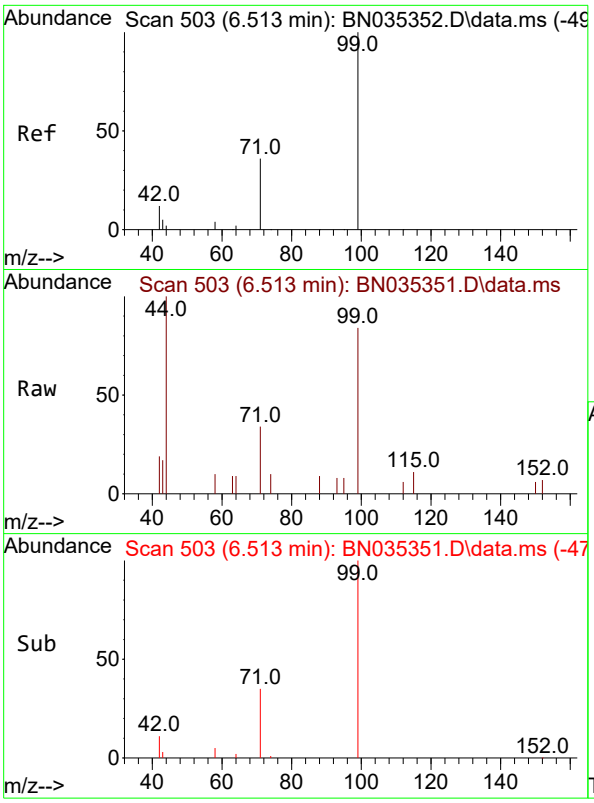


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



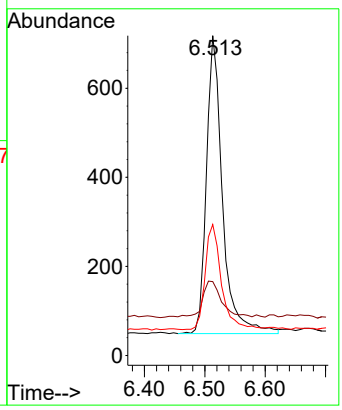


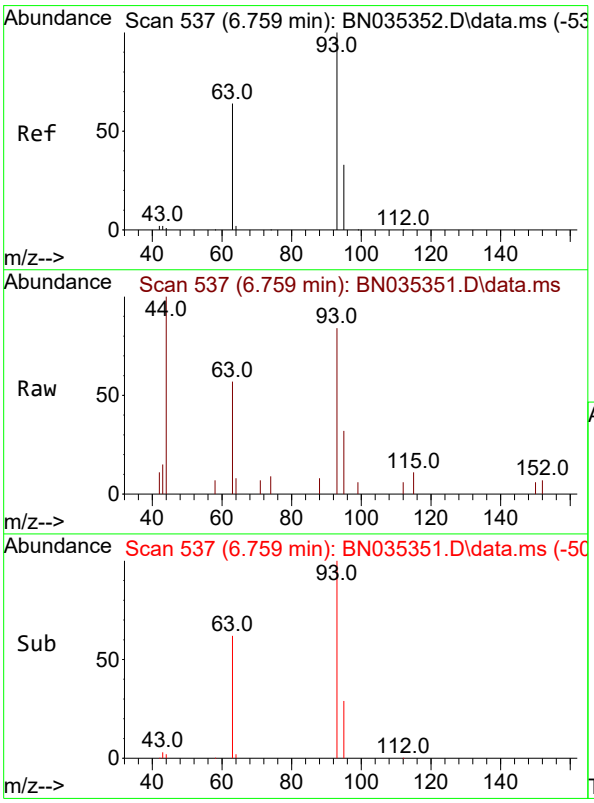
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9

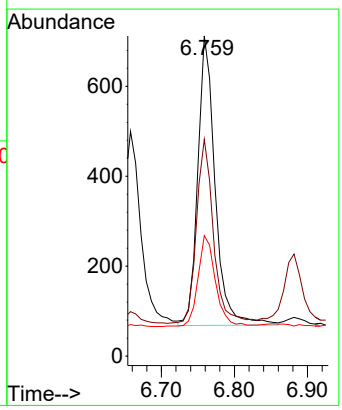


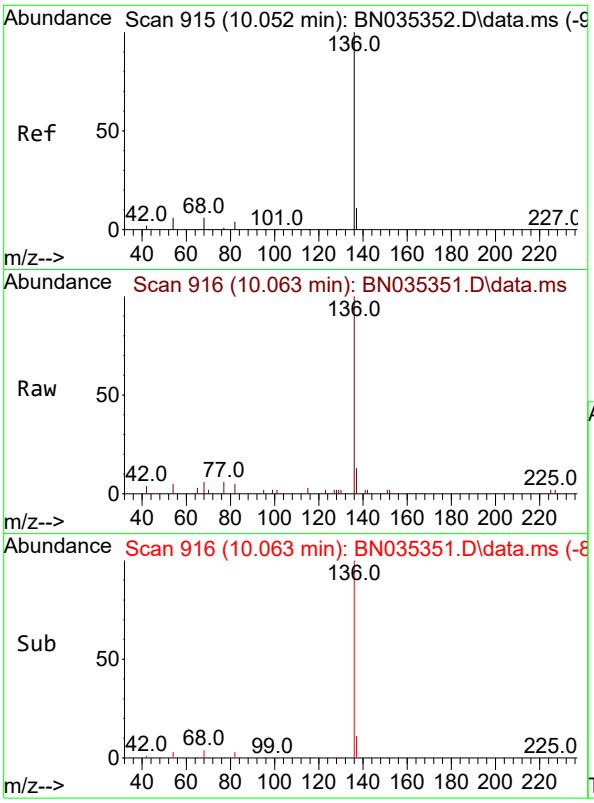


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5



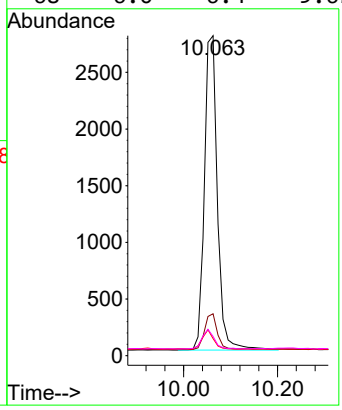


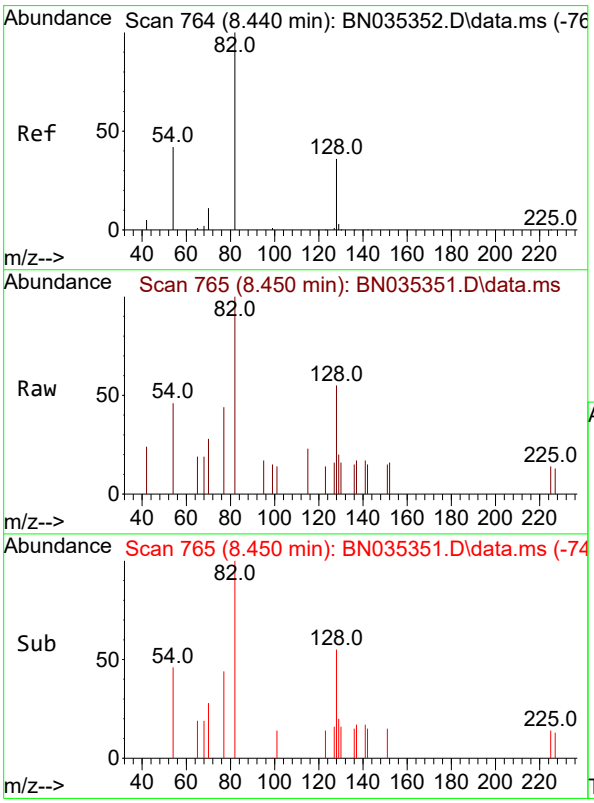
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5334

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#

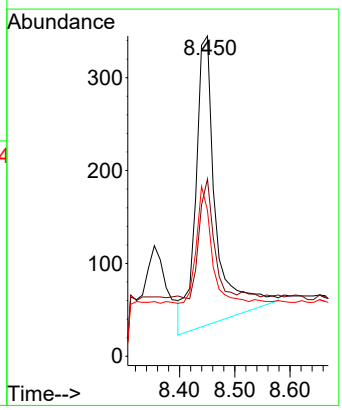


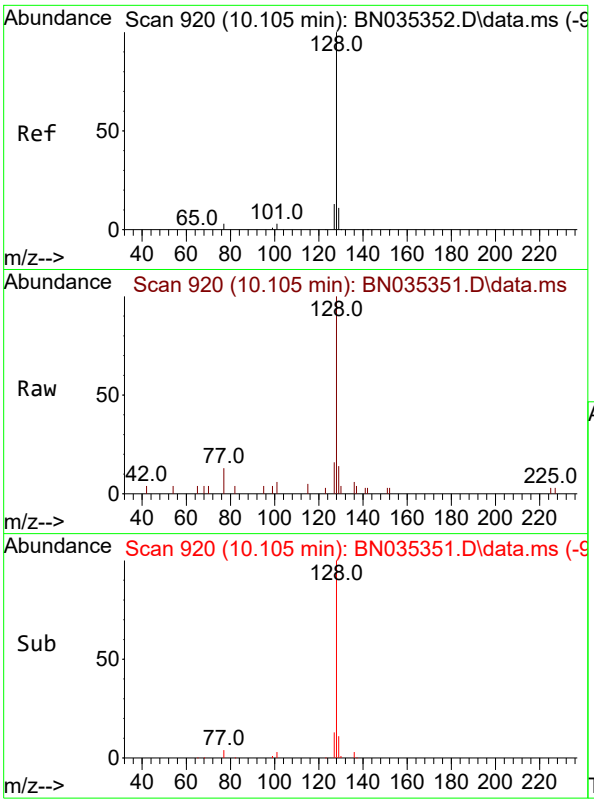


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1



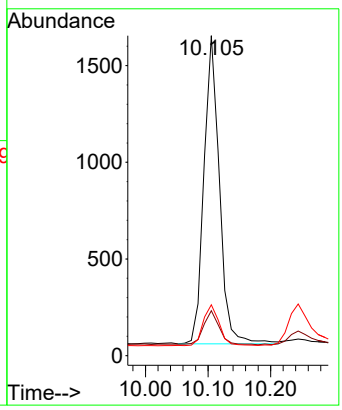


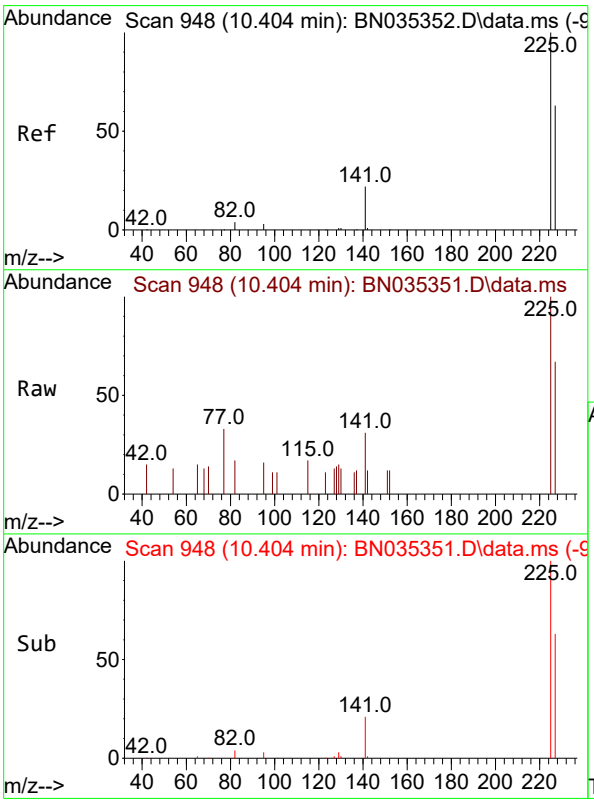
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

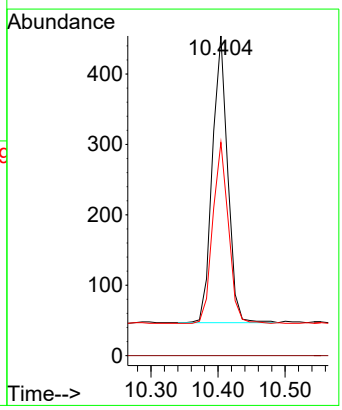


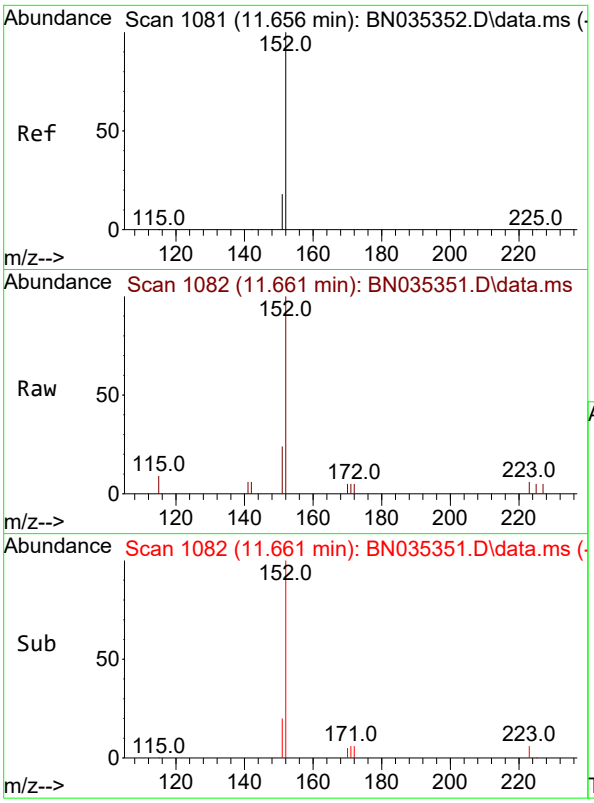


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



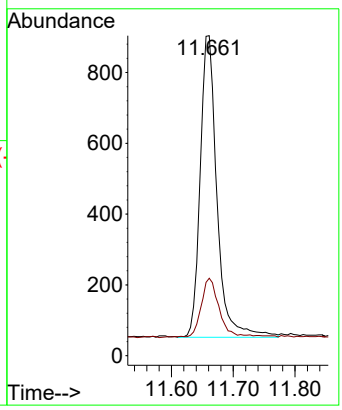


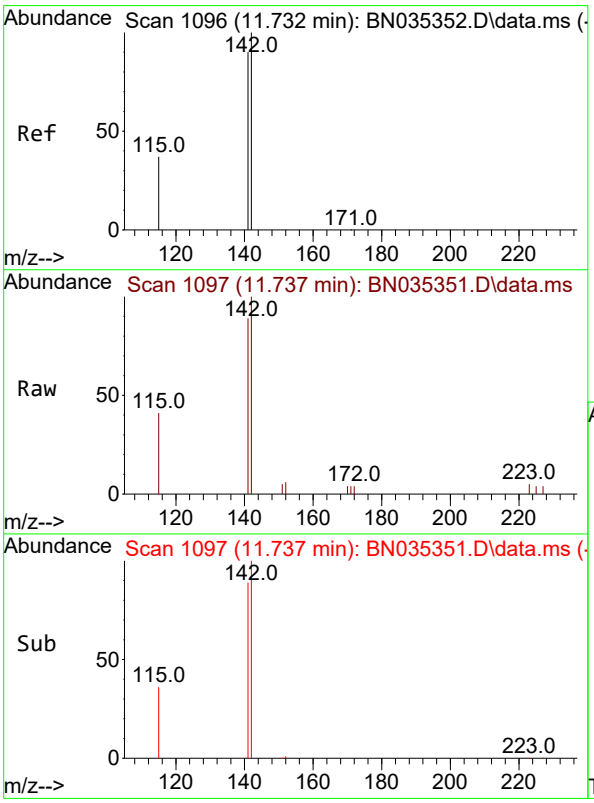
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

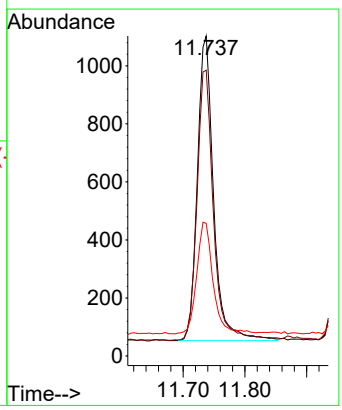


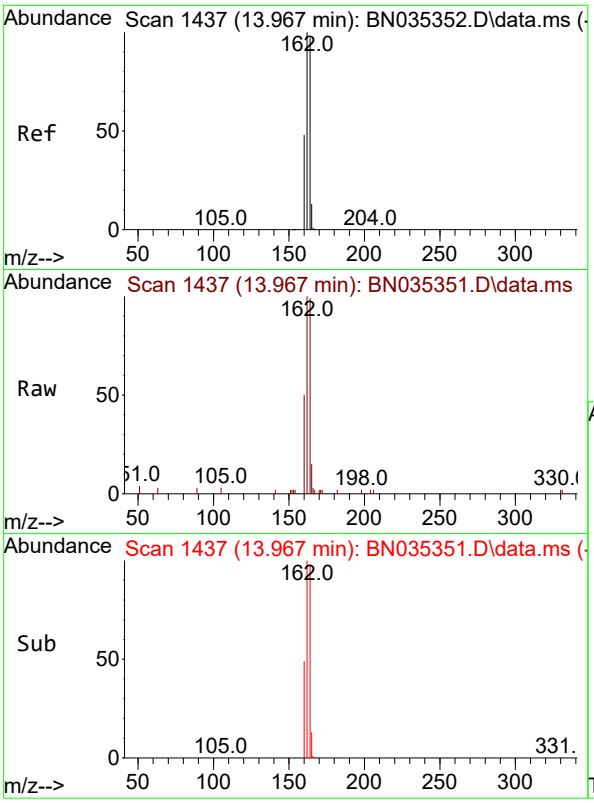


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0



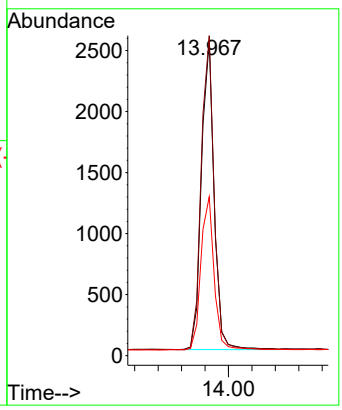


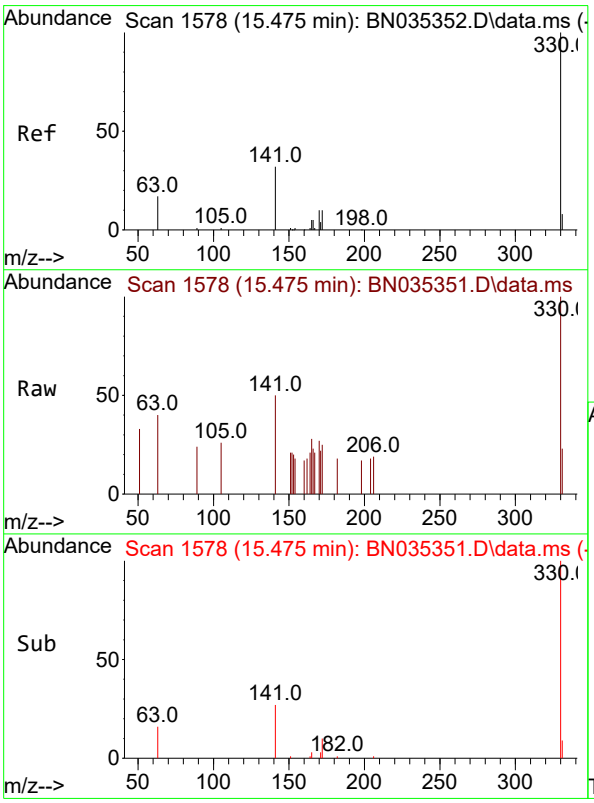
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3808

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

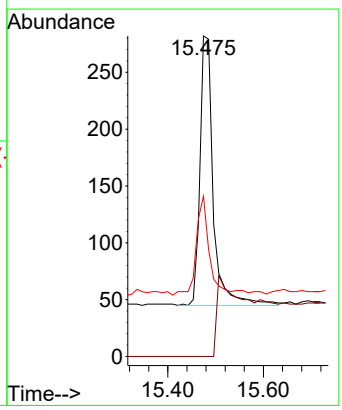


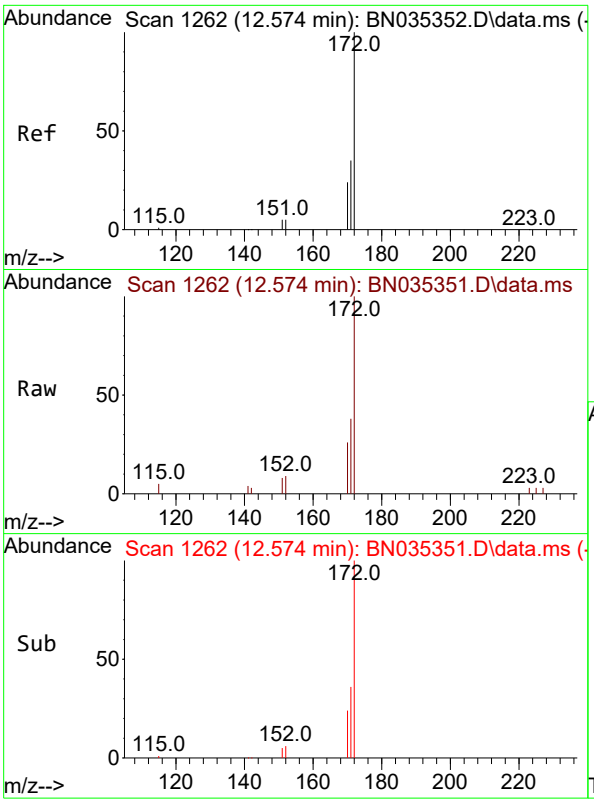


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0



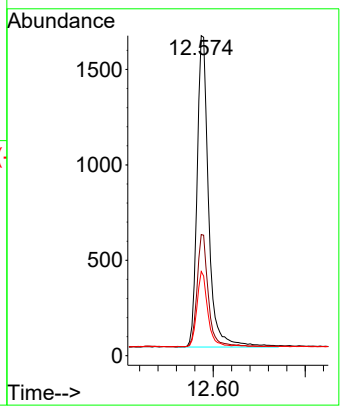


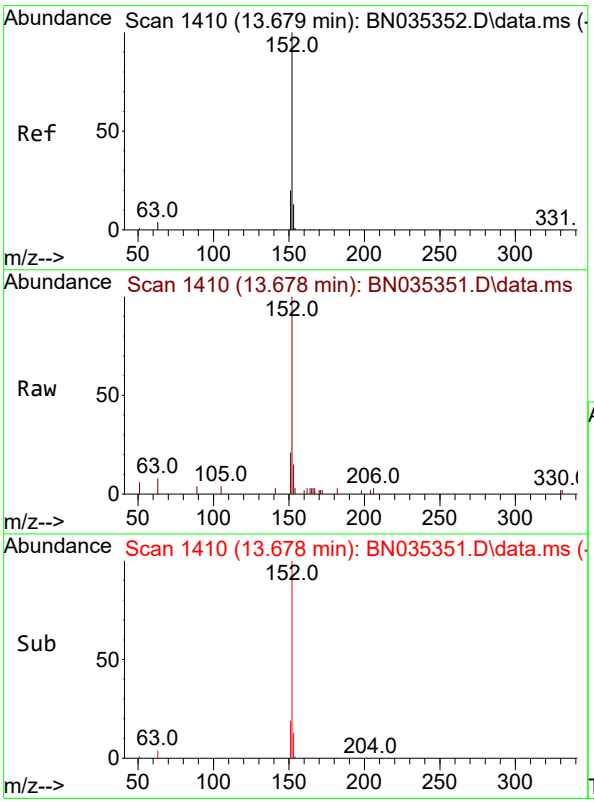
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8

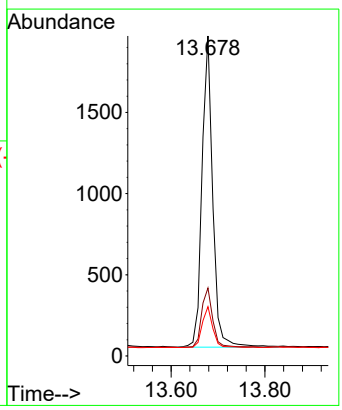


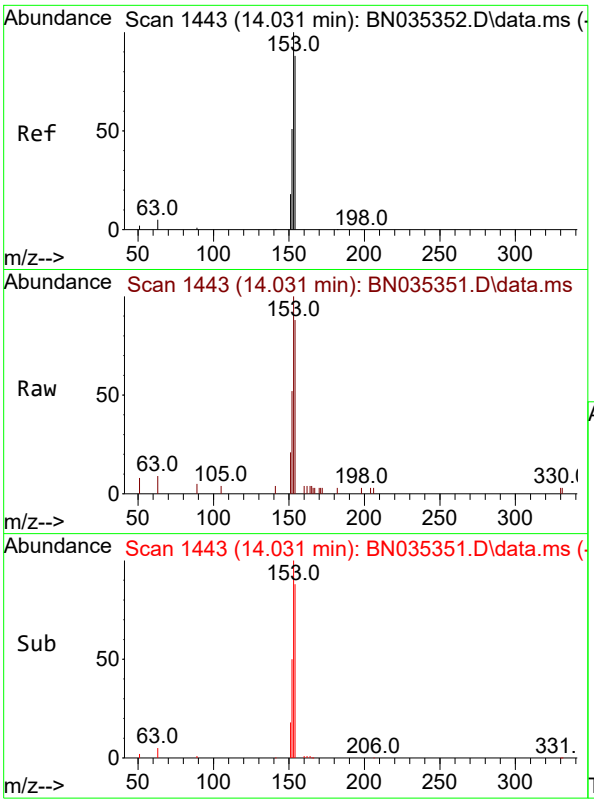


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



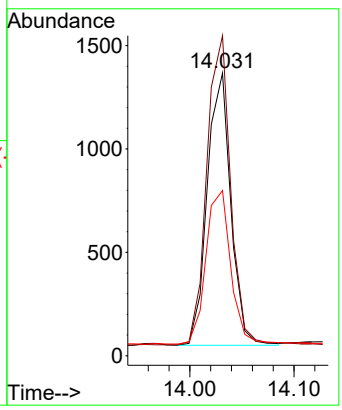


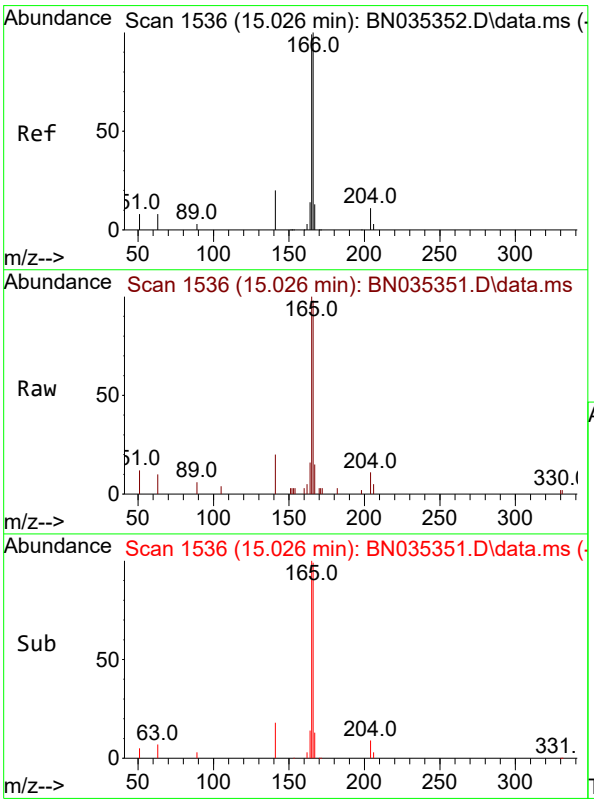
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2064

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

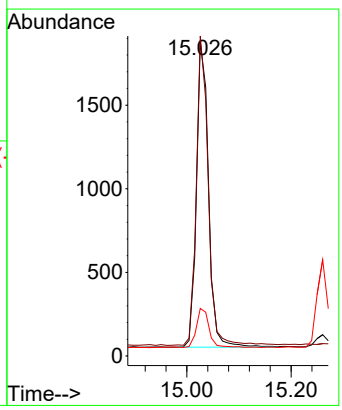


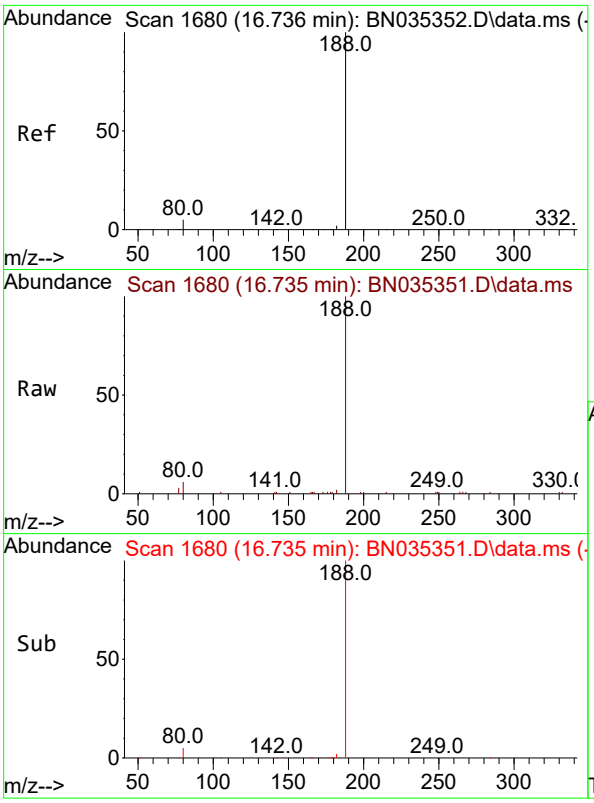


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2



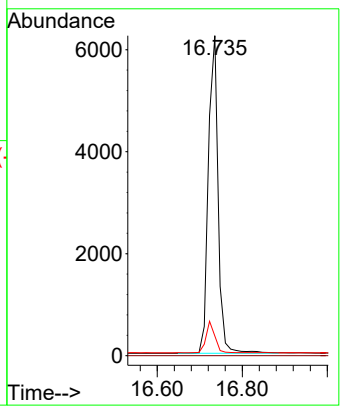


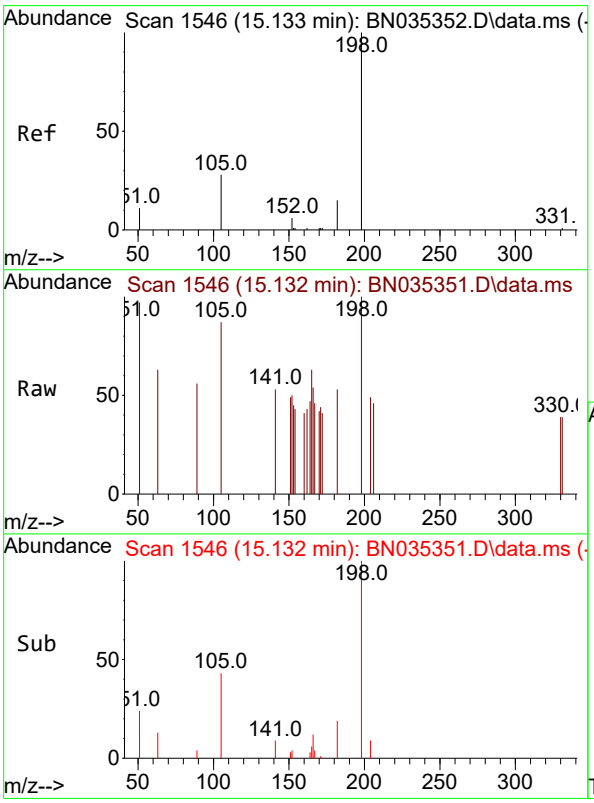
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

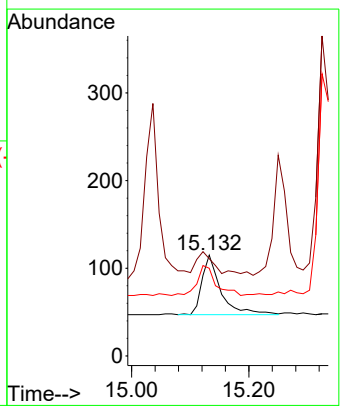


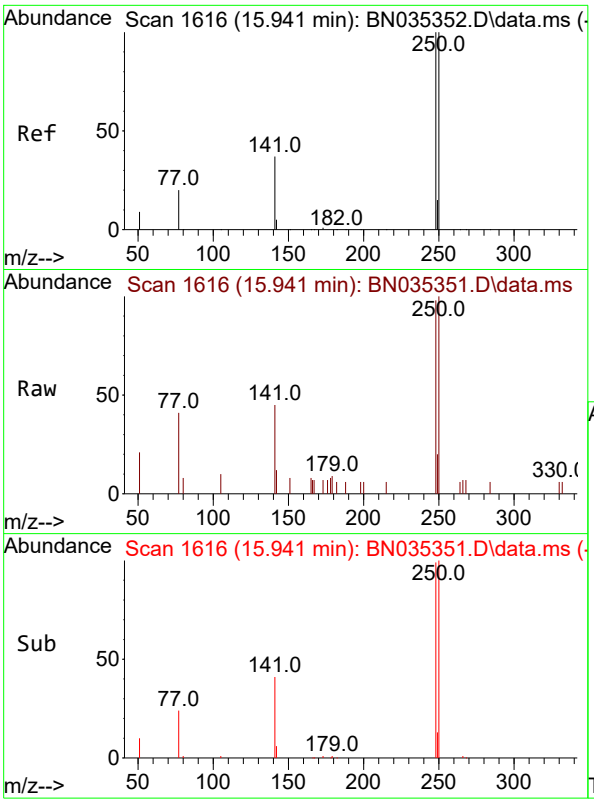


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#



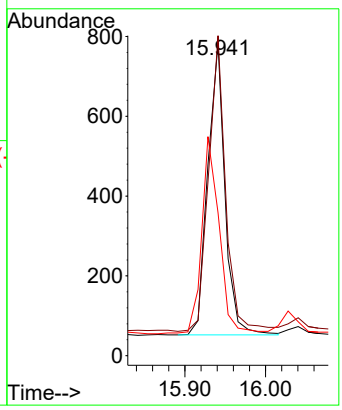


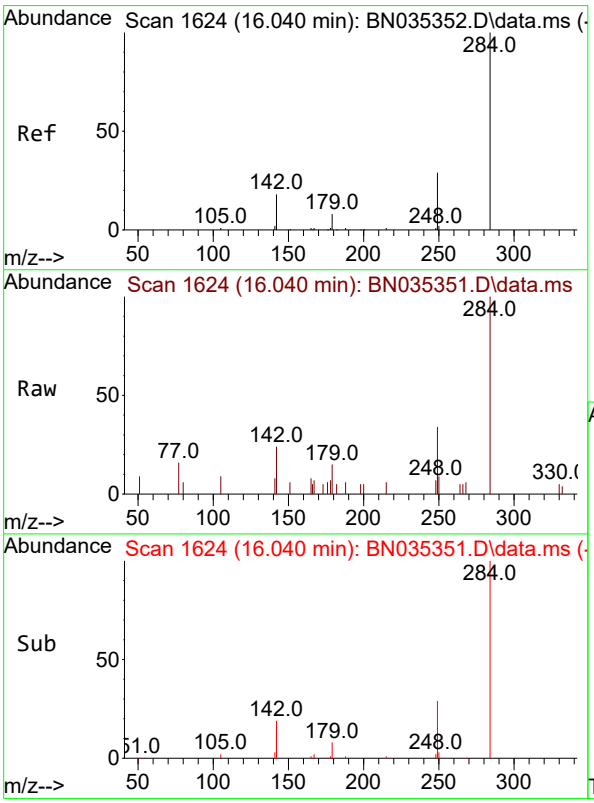
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1081

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3

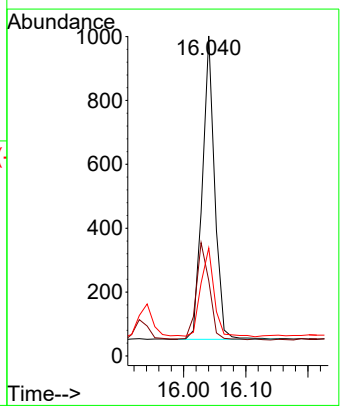


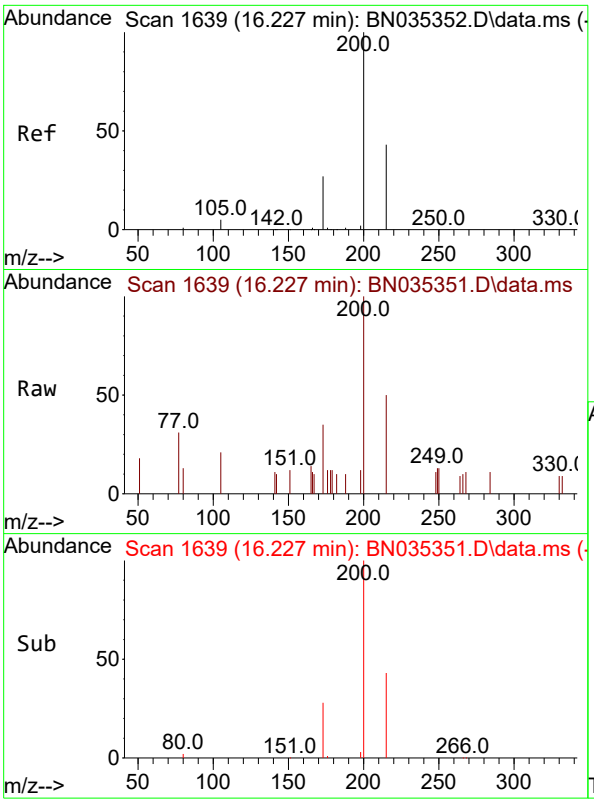


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8



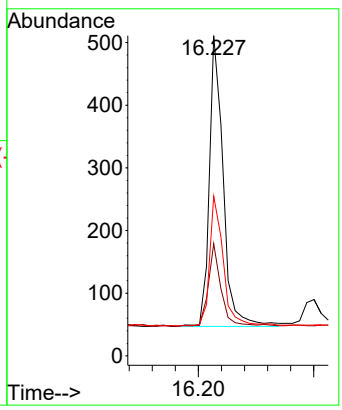


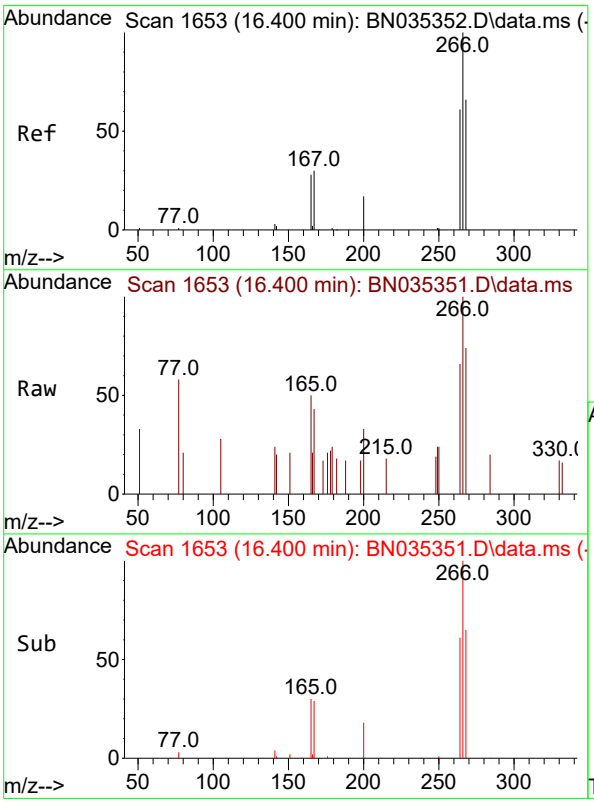
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3

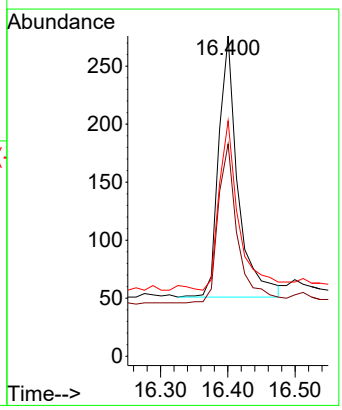


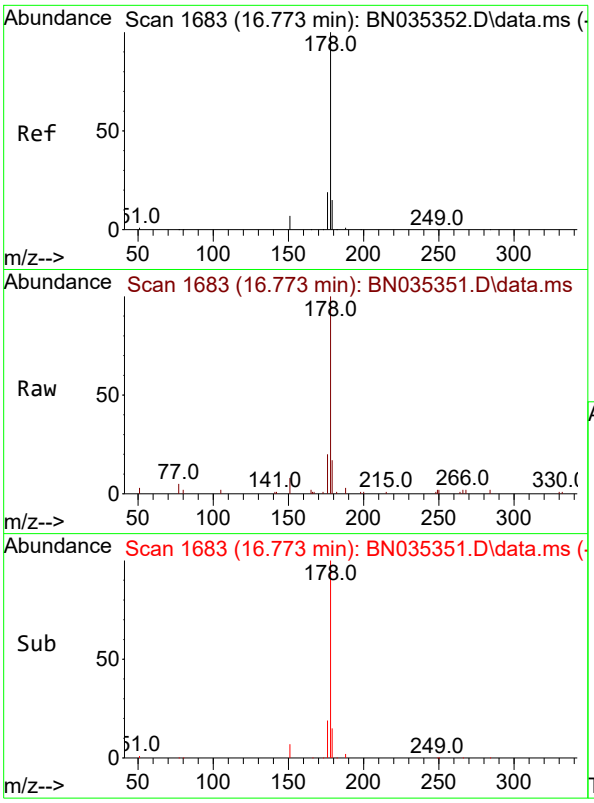


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#



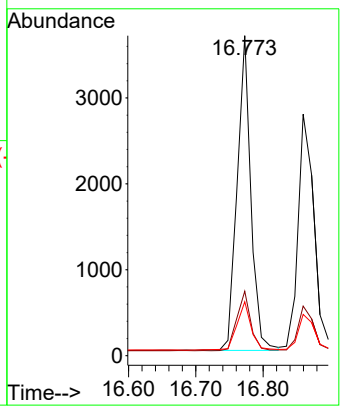


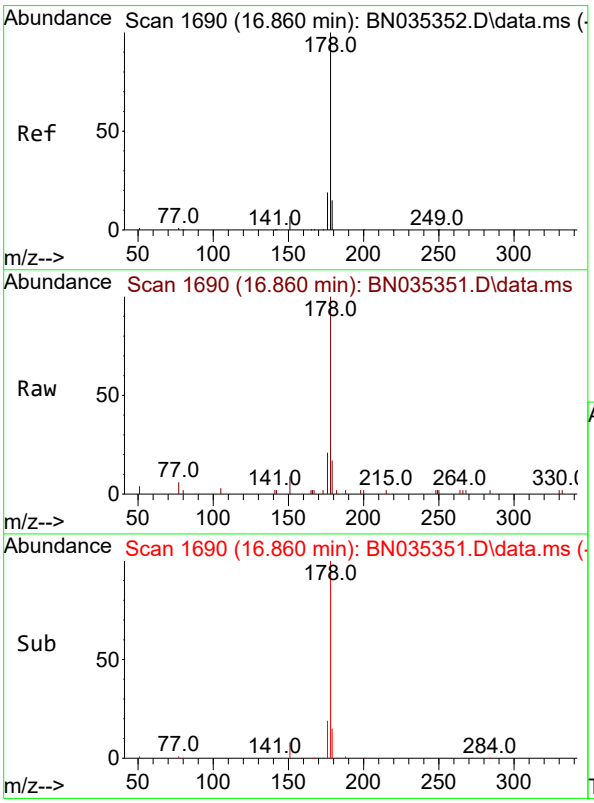
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5182

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5

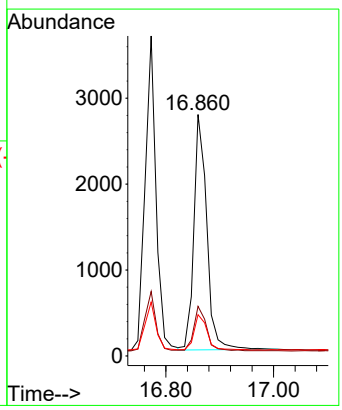


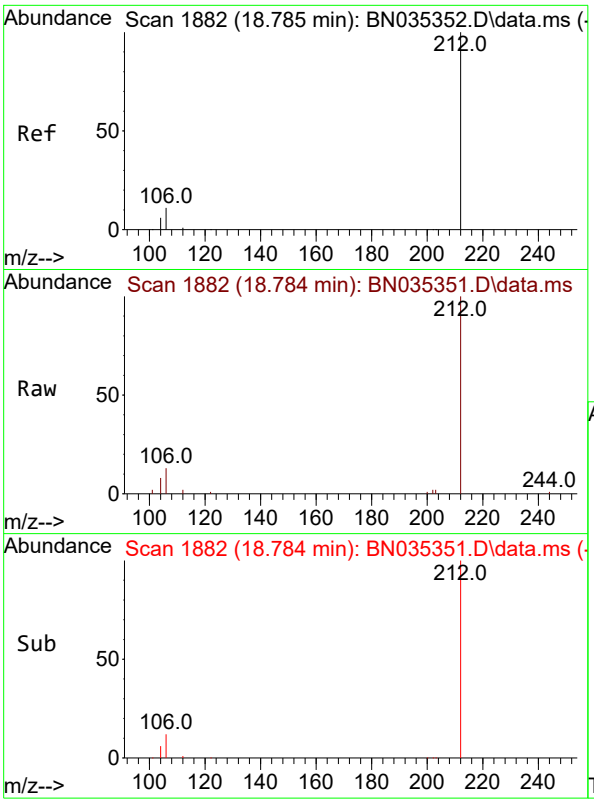


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



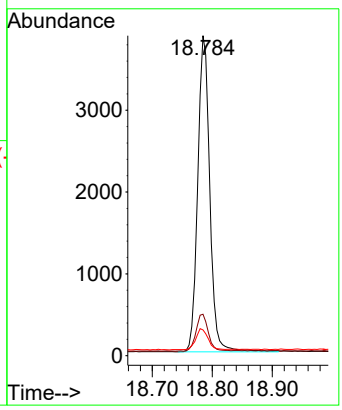


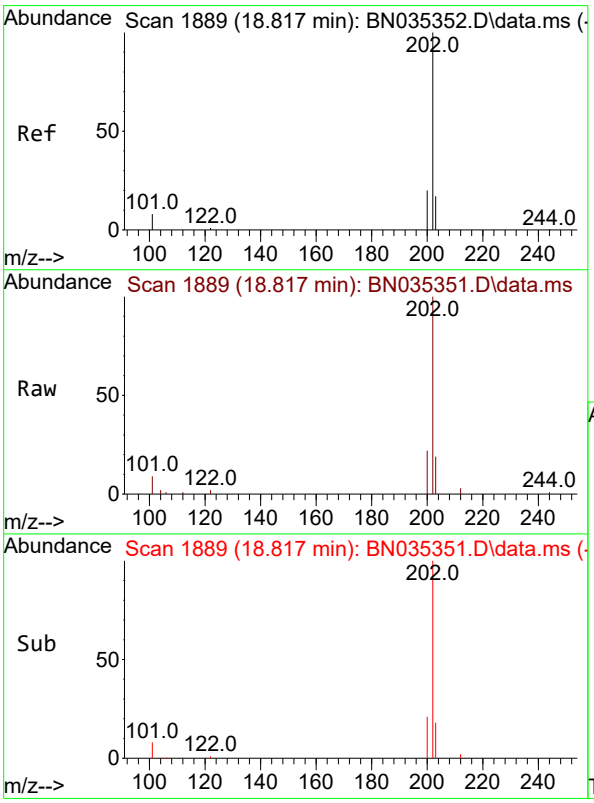
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5379

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

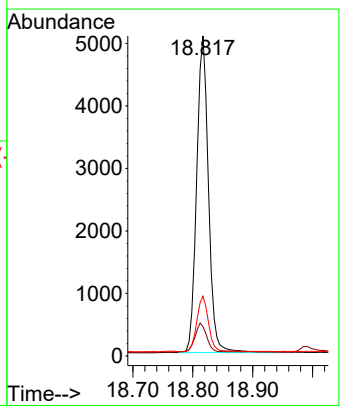


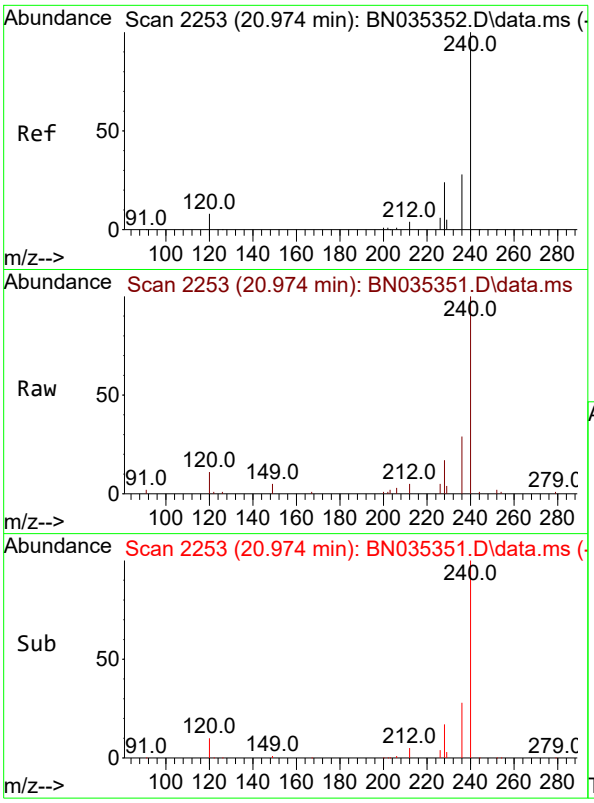


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5



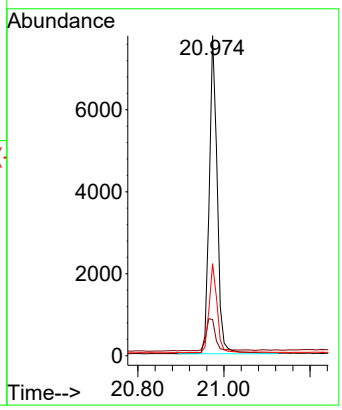


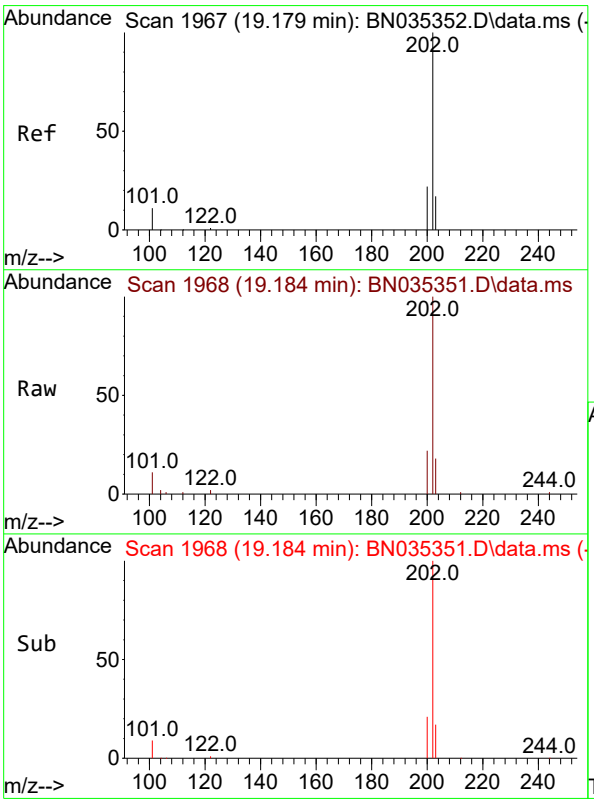
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9963

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

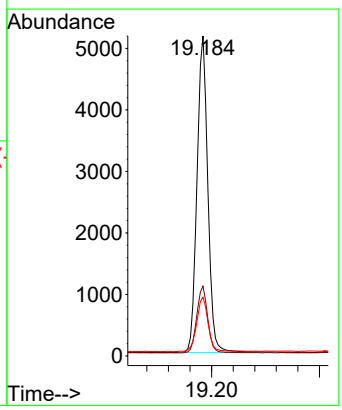


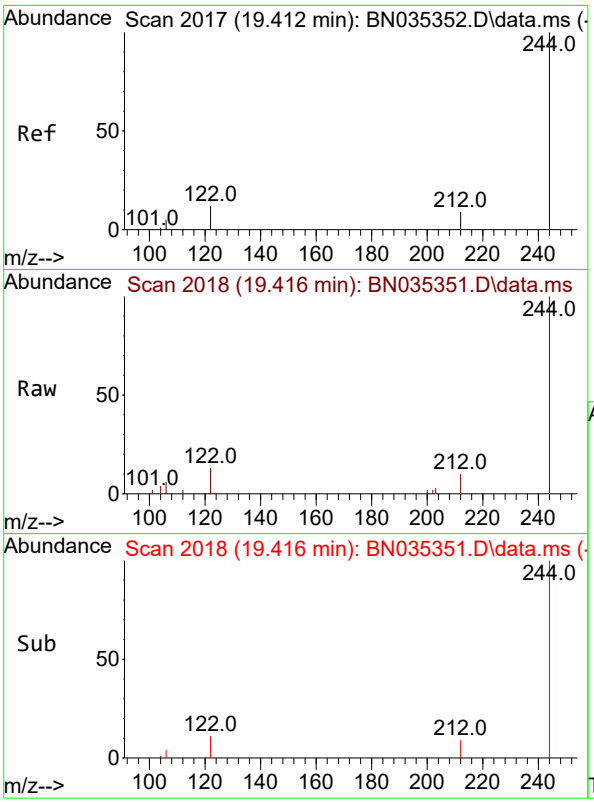


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



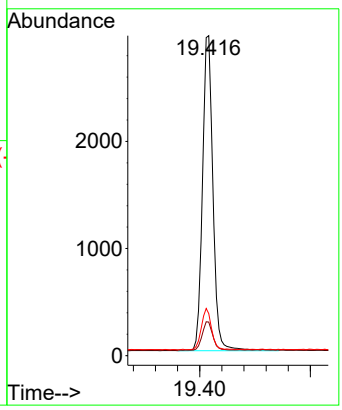


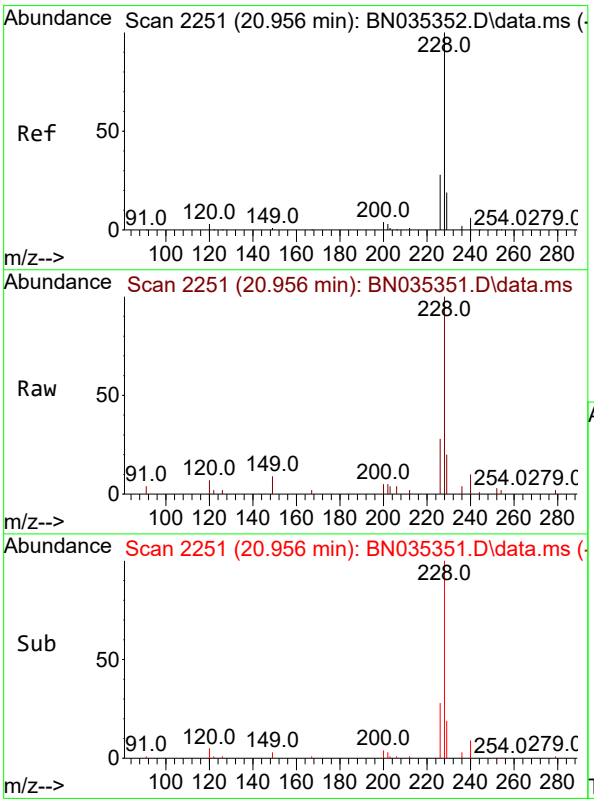
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3871

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

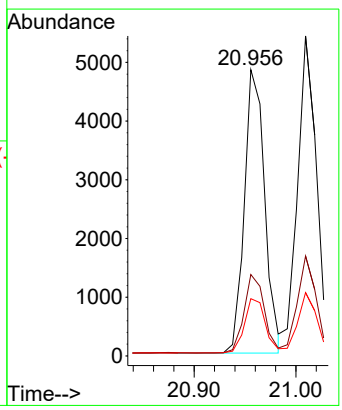


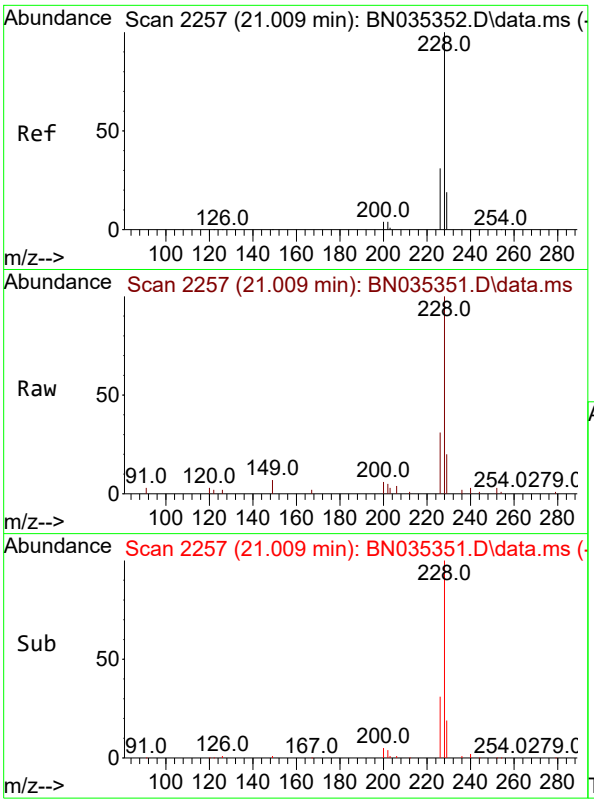


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



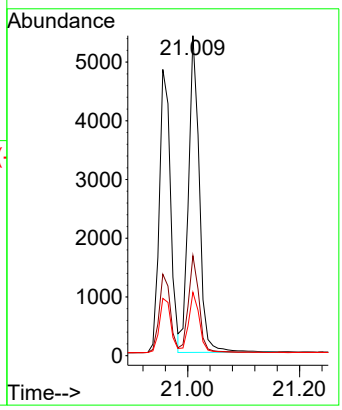


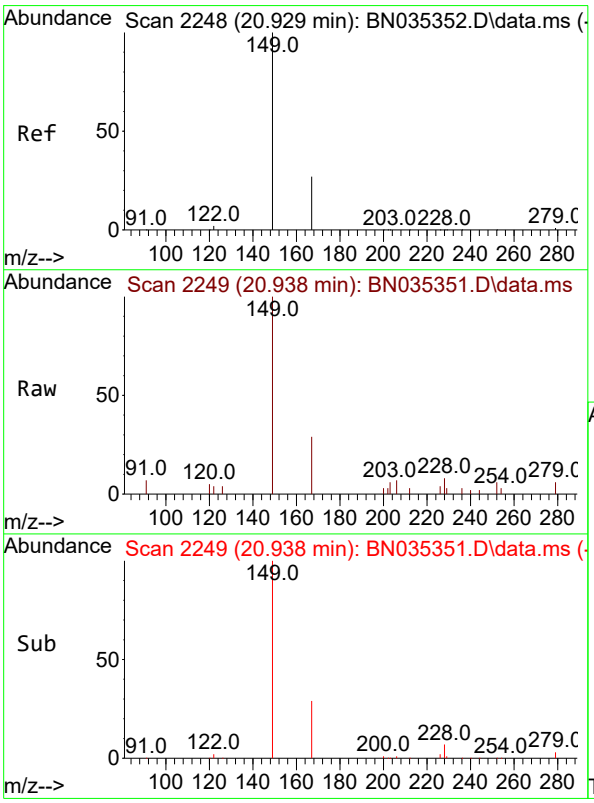
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

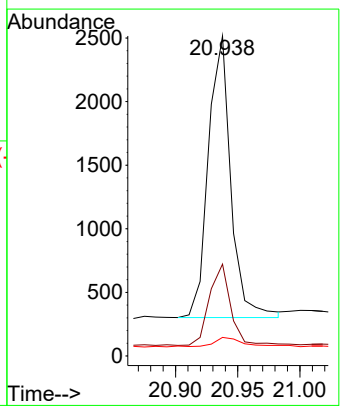


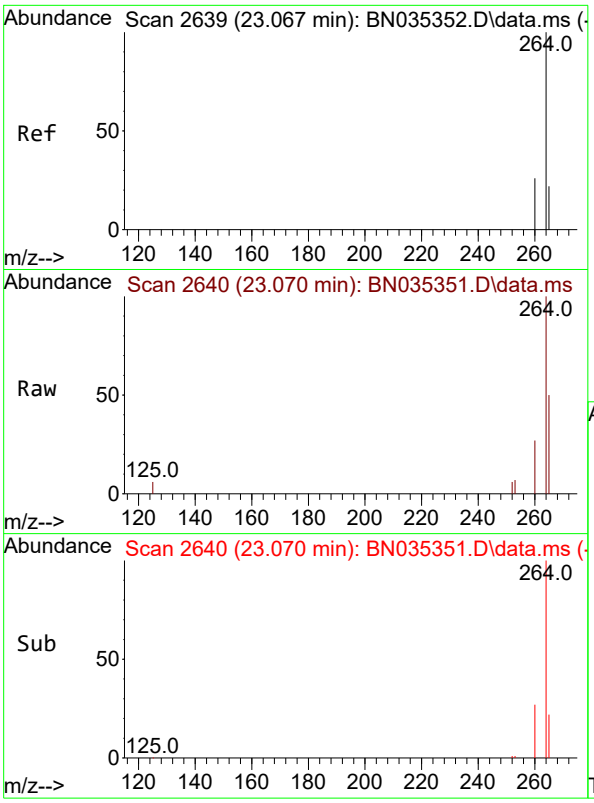


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#



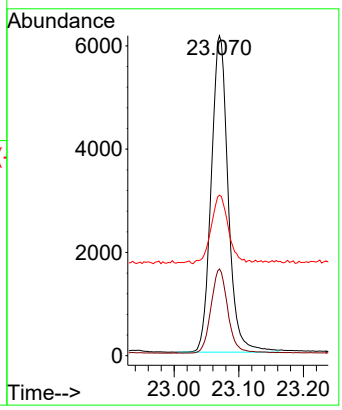


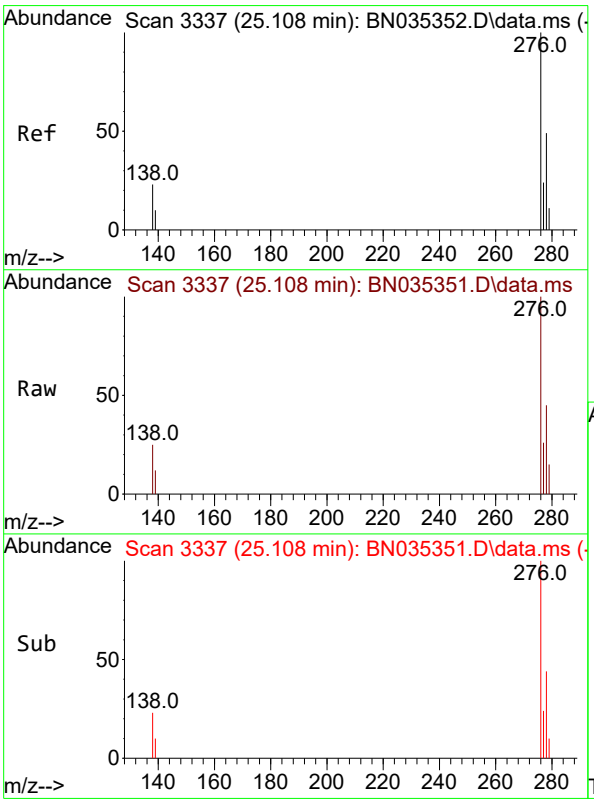
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11158

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4

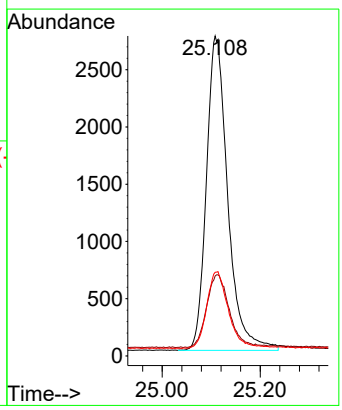


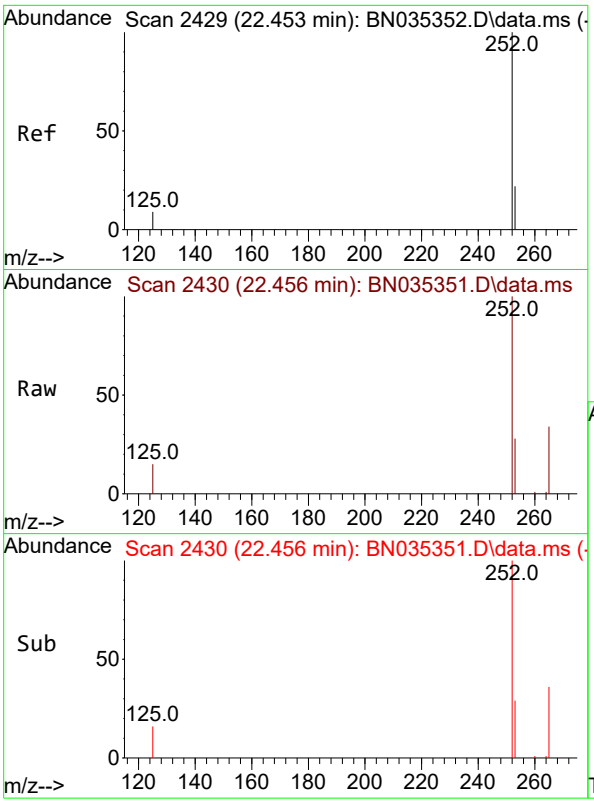


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6



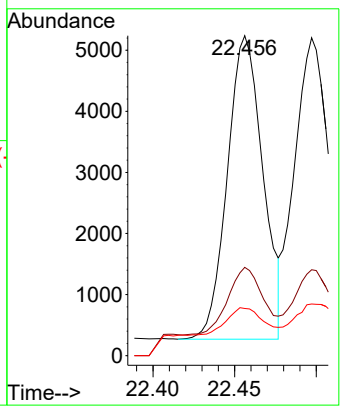


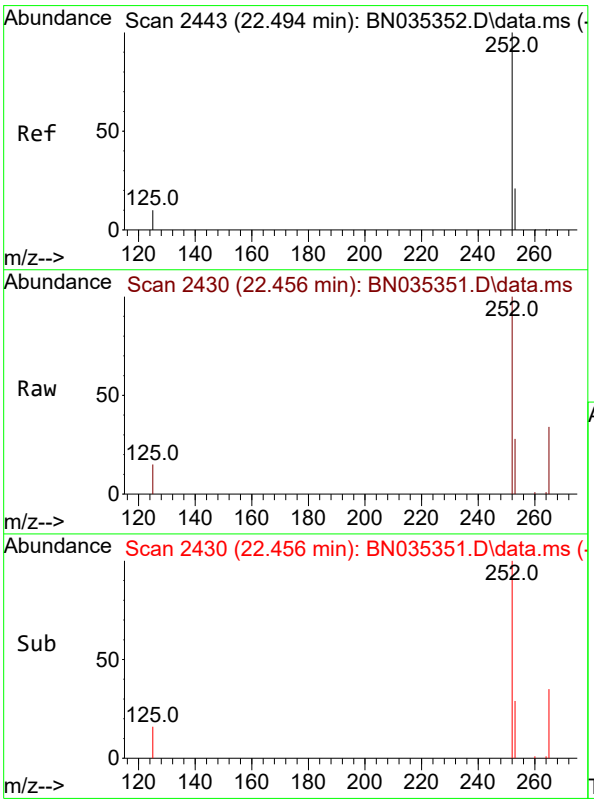
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

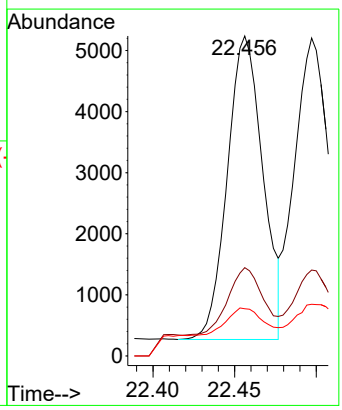


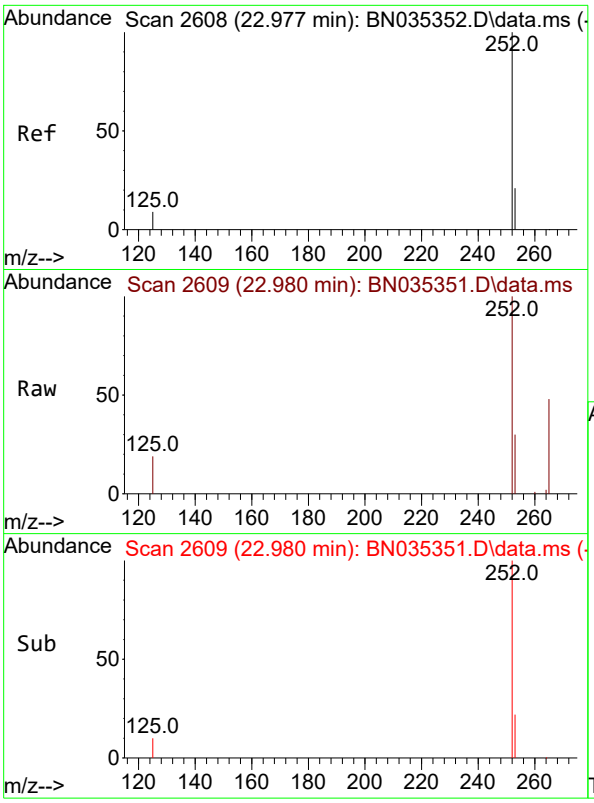


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	14.8	10.2	15.4



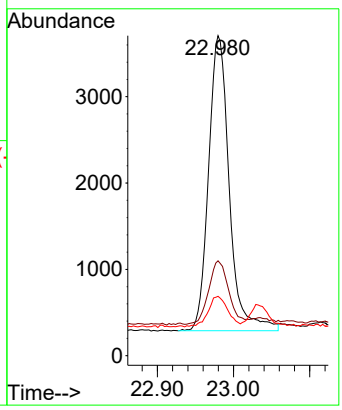


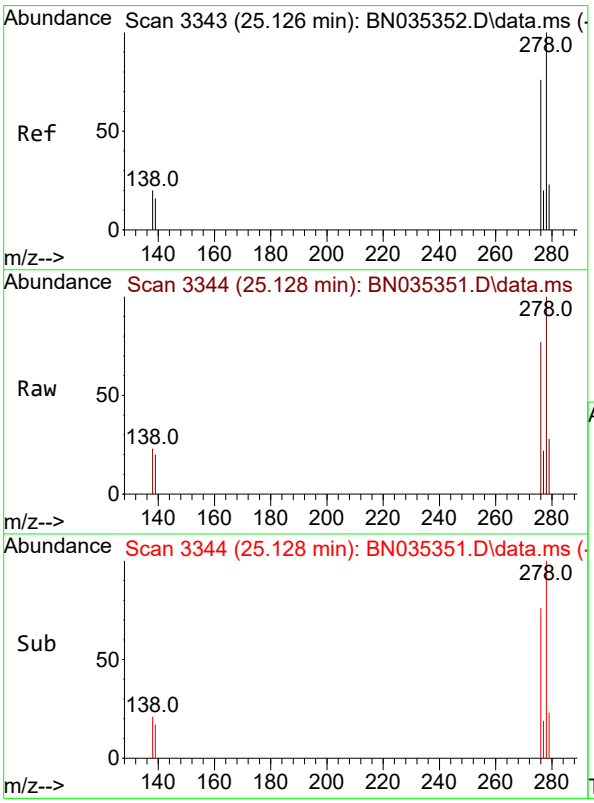
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6450

Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#

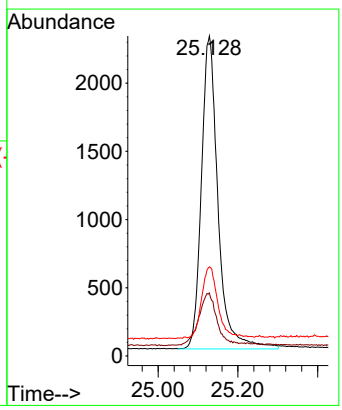


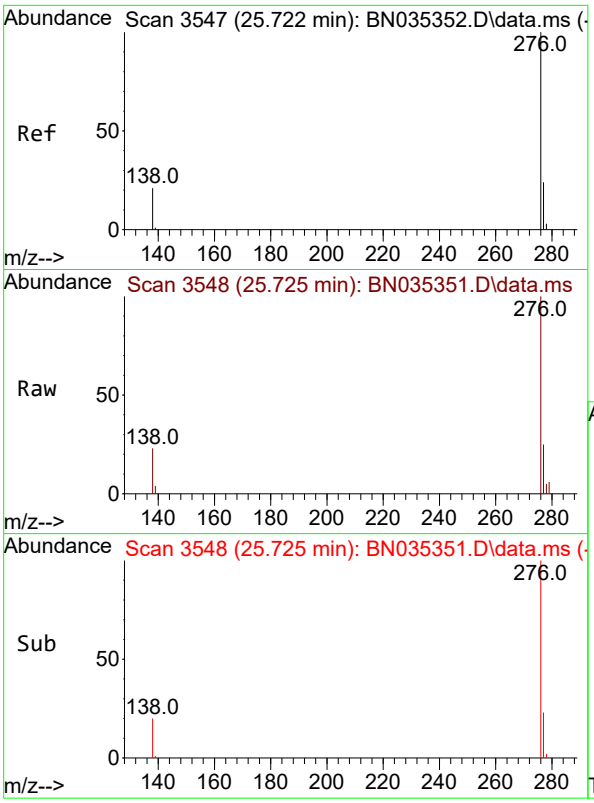


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7



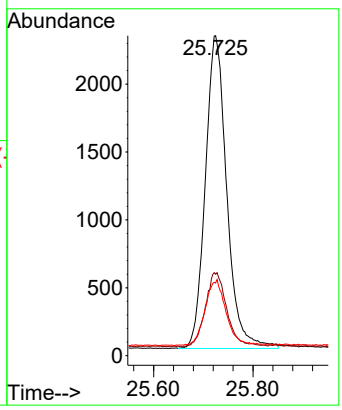


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

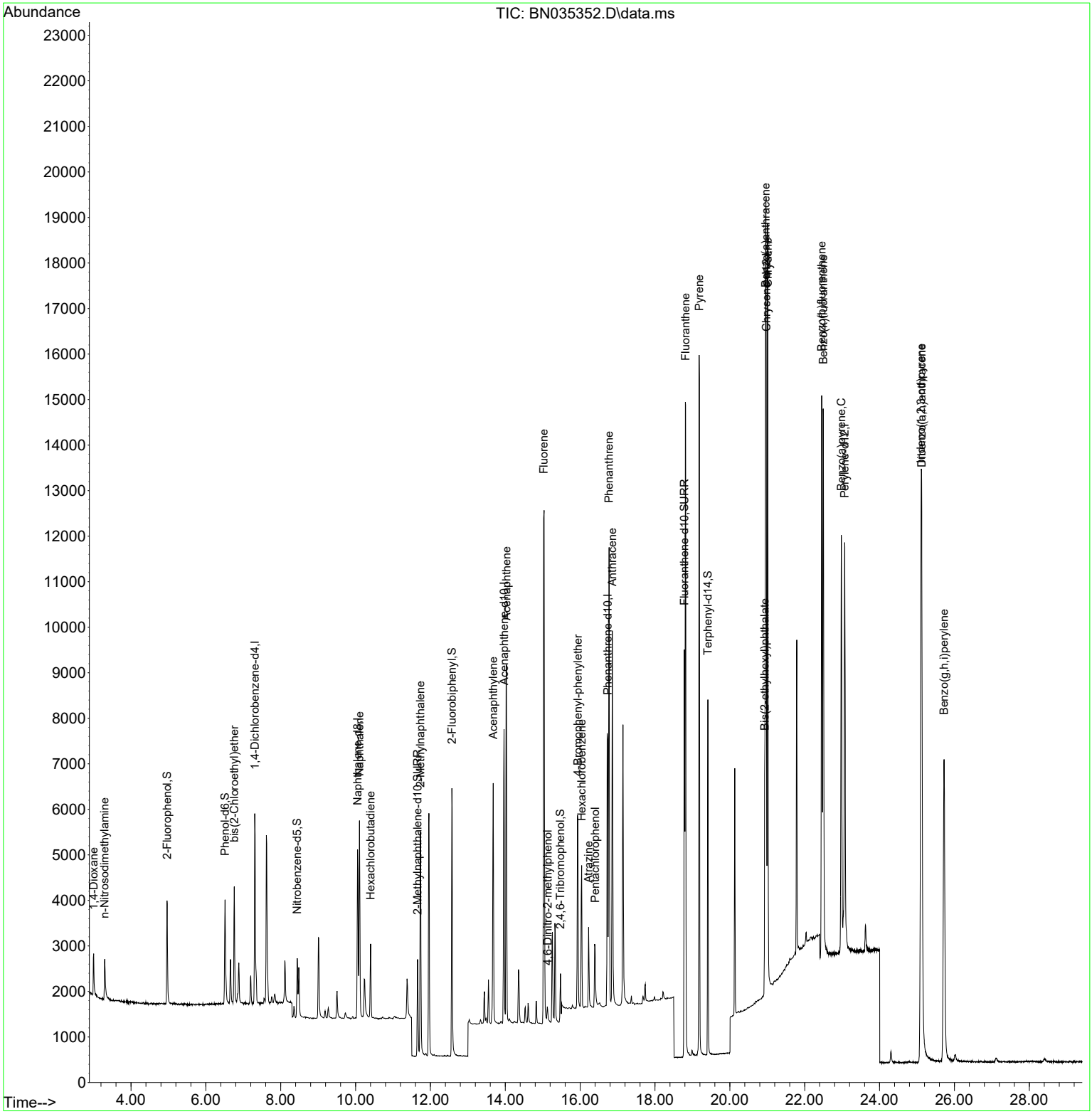
(#) = qualifier out of range (m) = manual integration (+) = signals summed

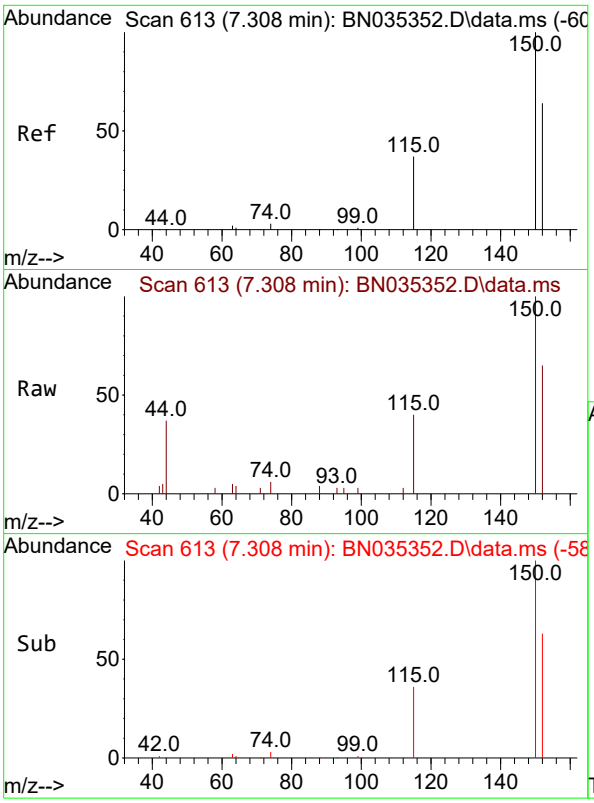
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



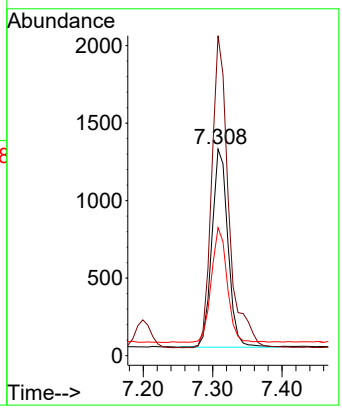


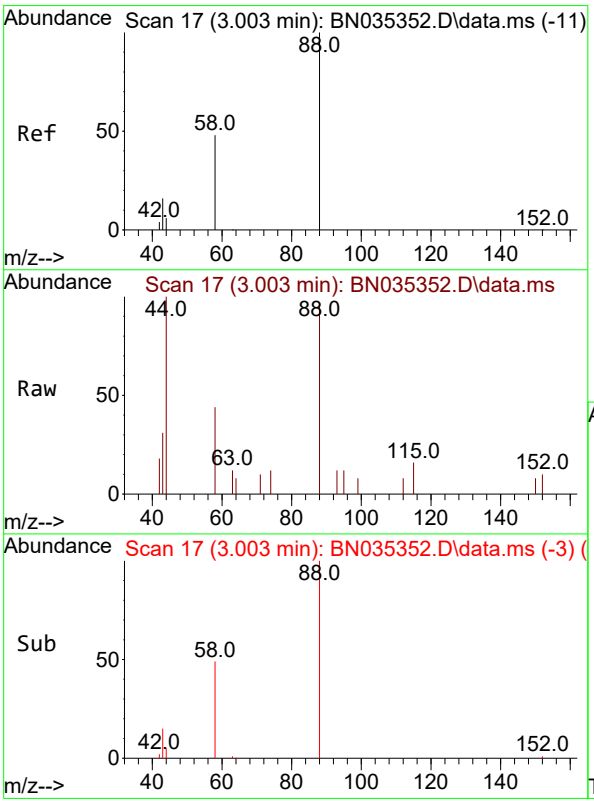
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

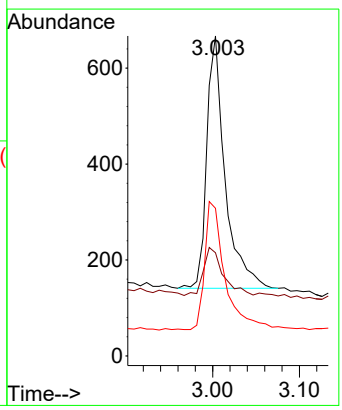


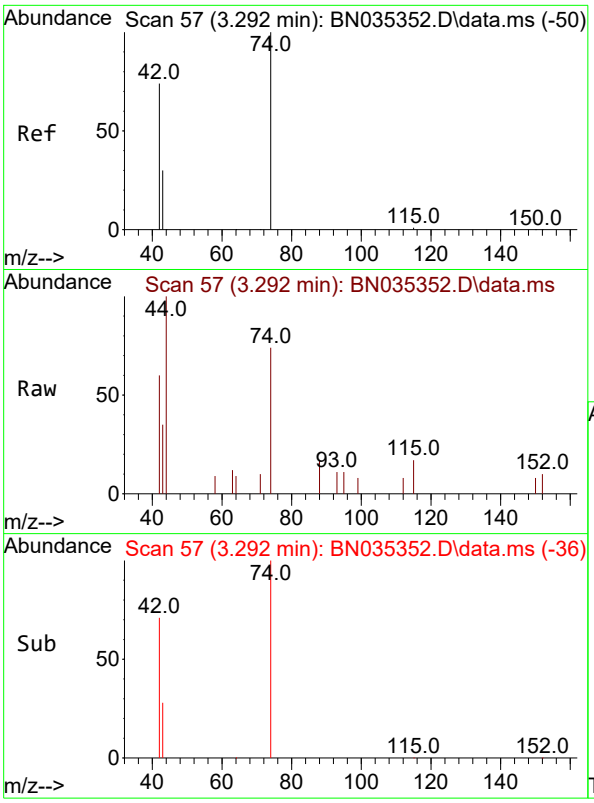


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7



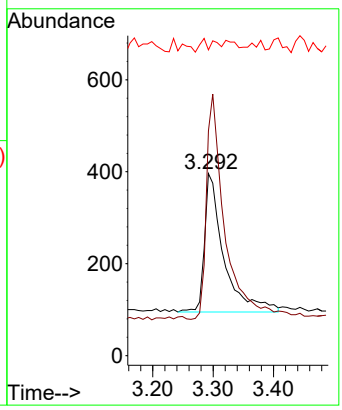


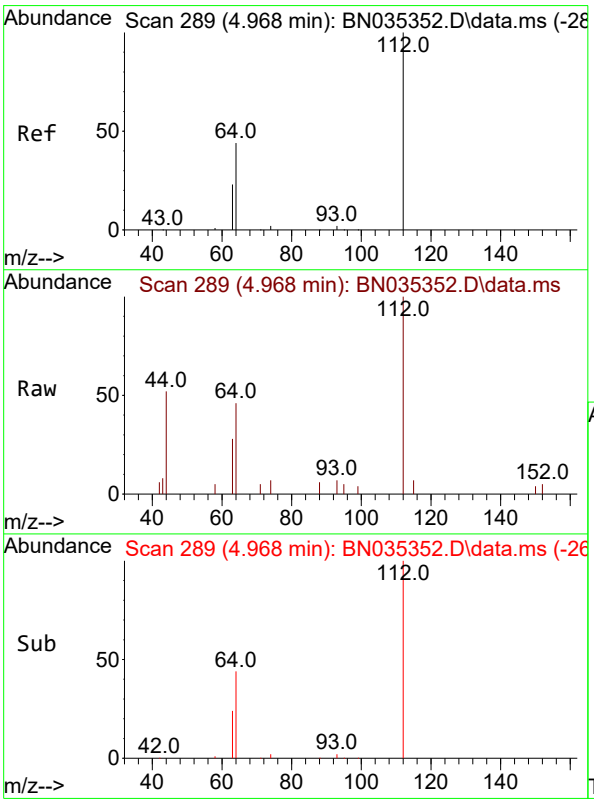
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4

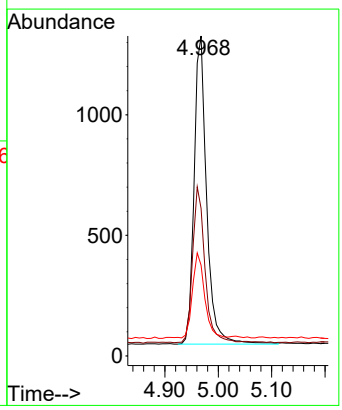


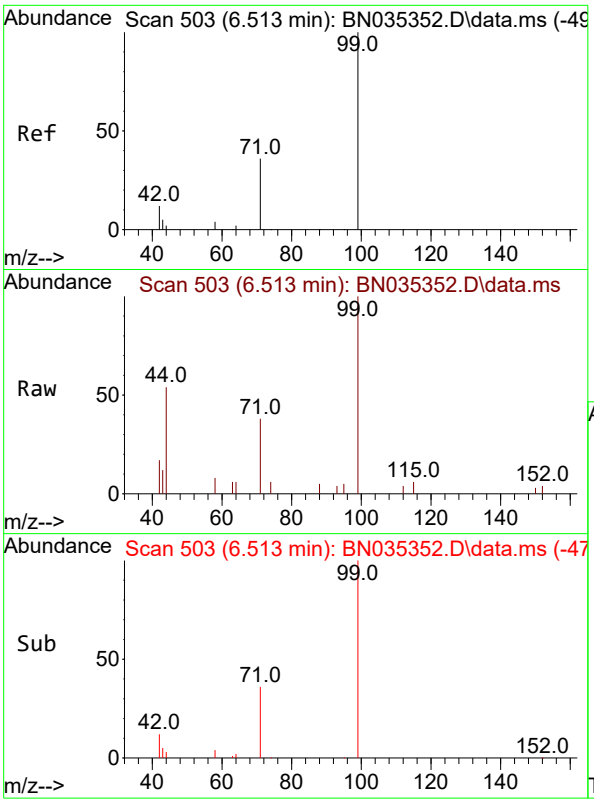


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6



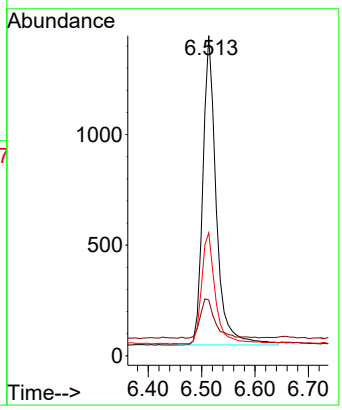


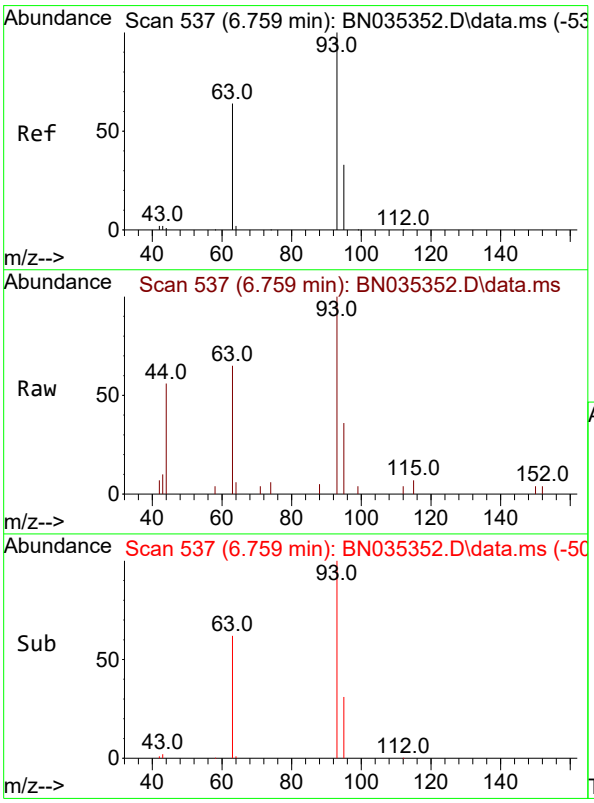
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9

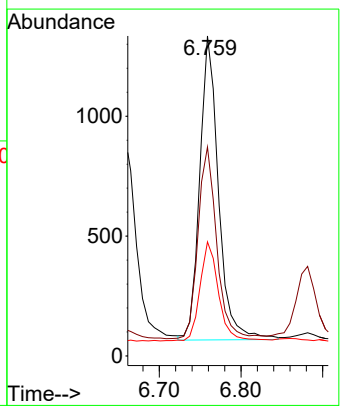


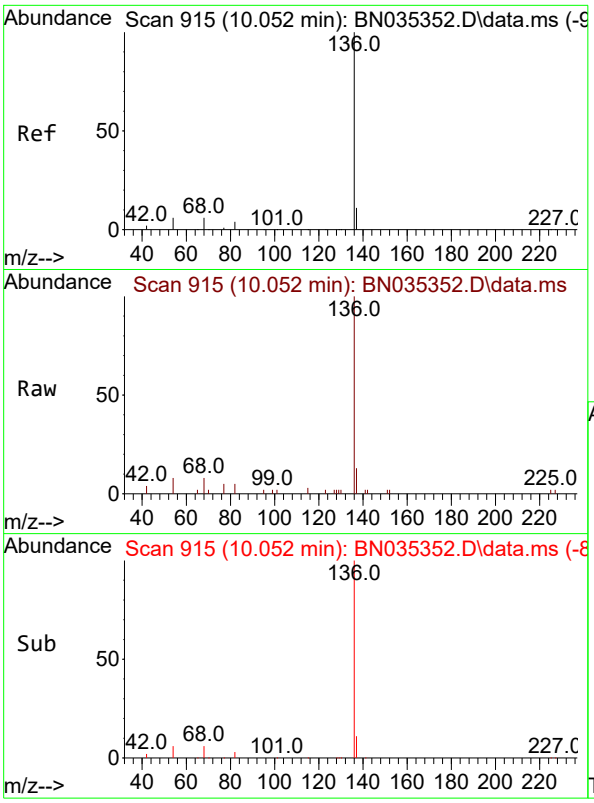


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



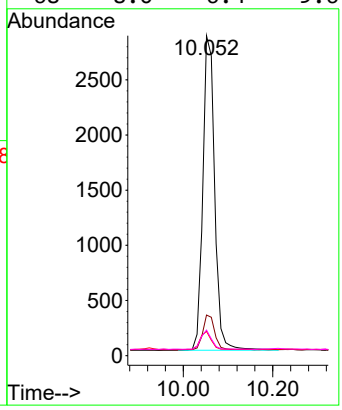


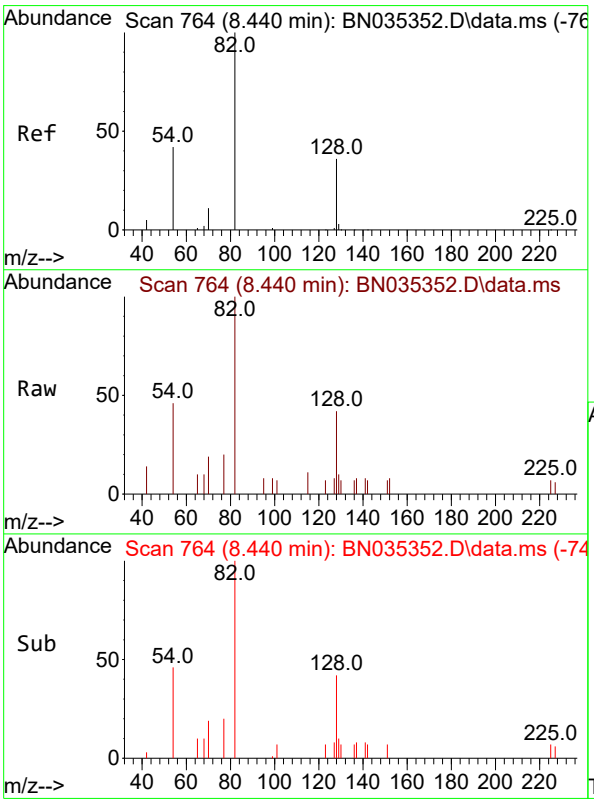
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

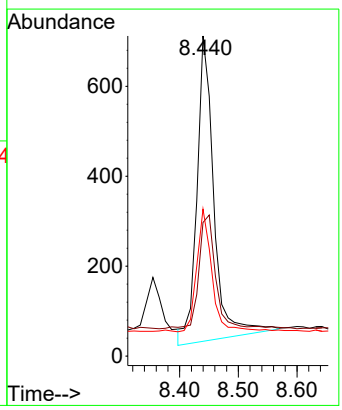


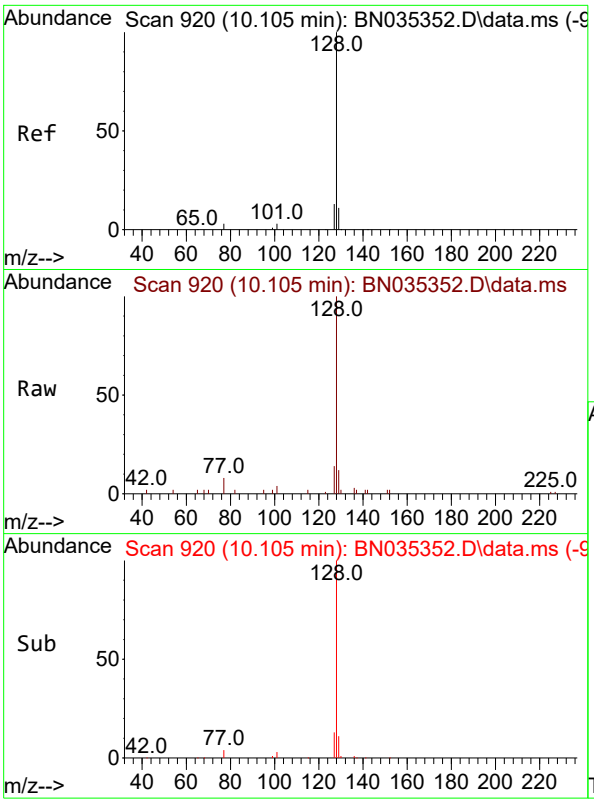


#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1



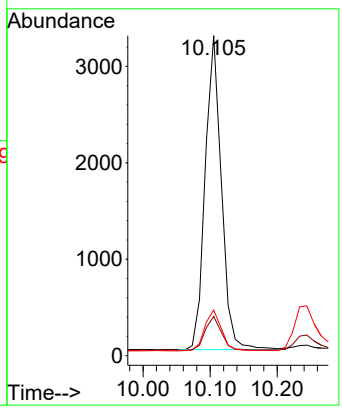


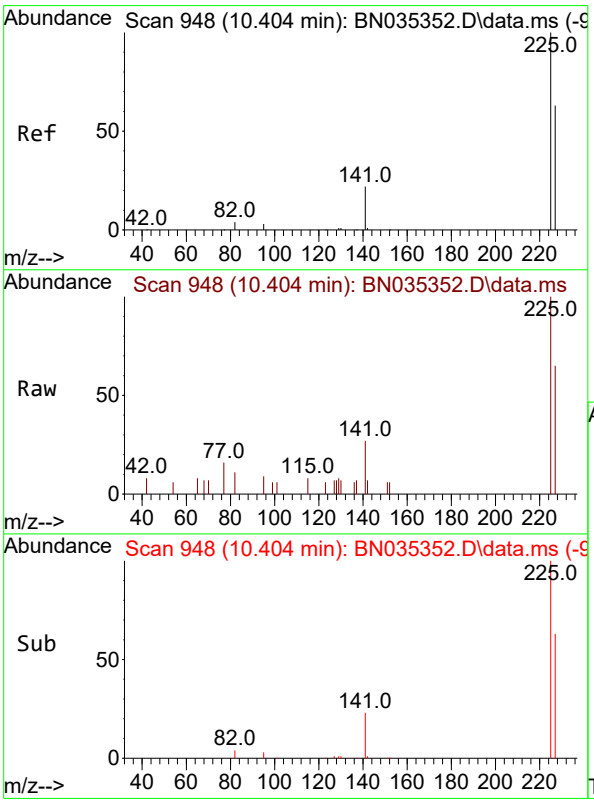
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

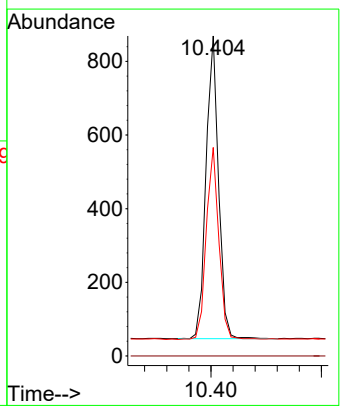


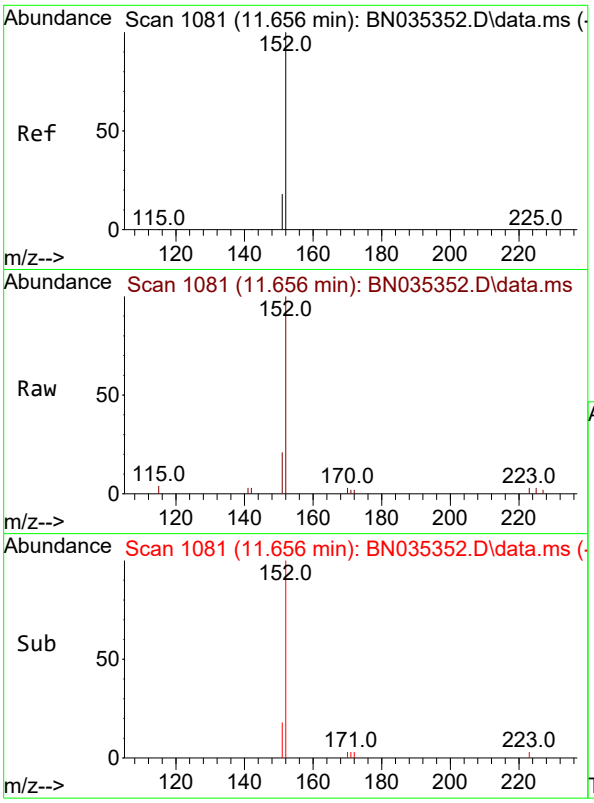


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



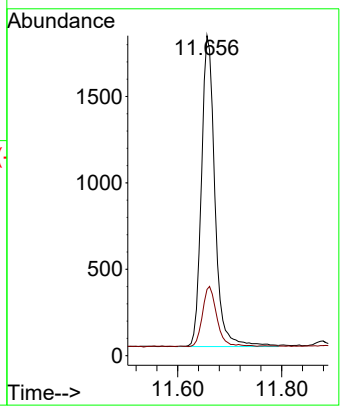


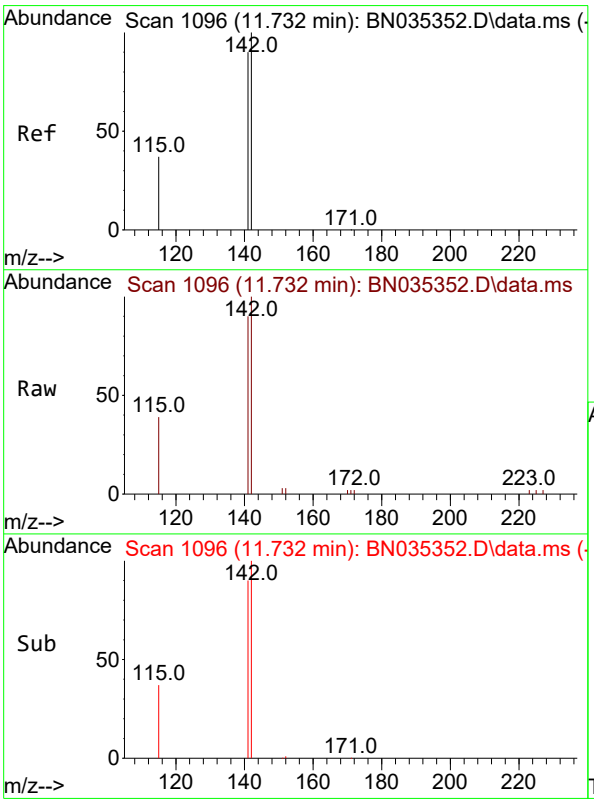
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

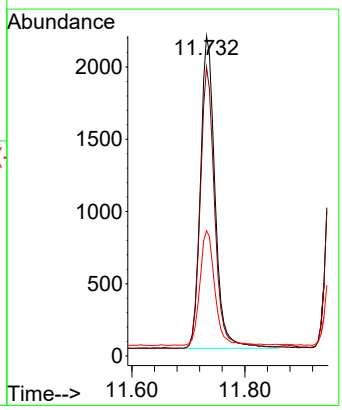


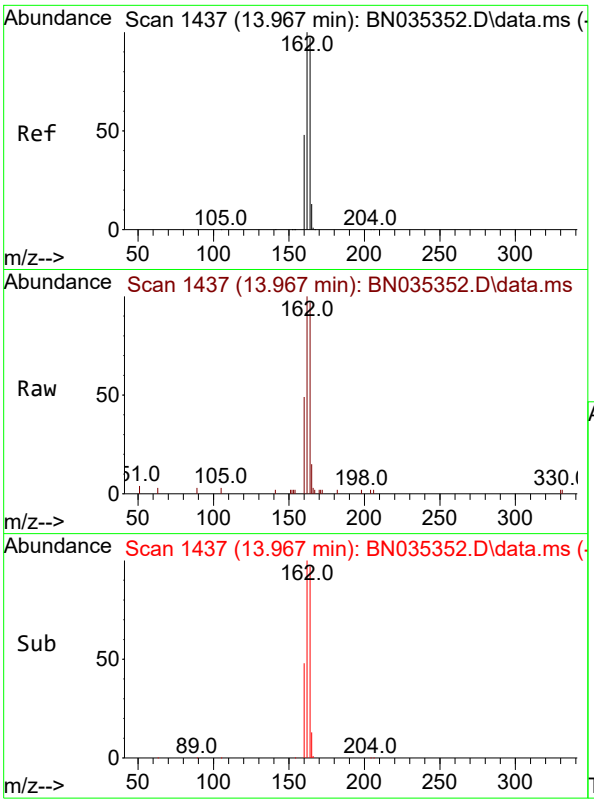


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0



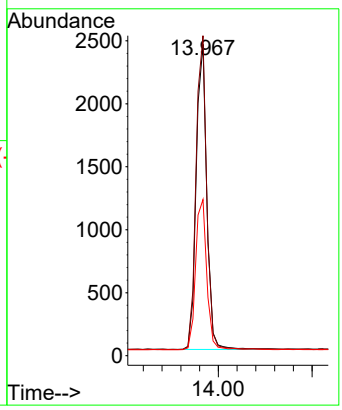


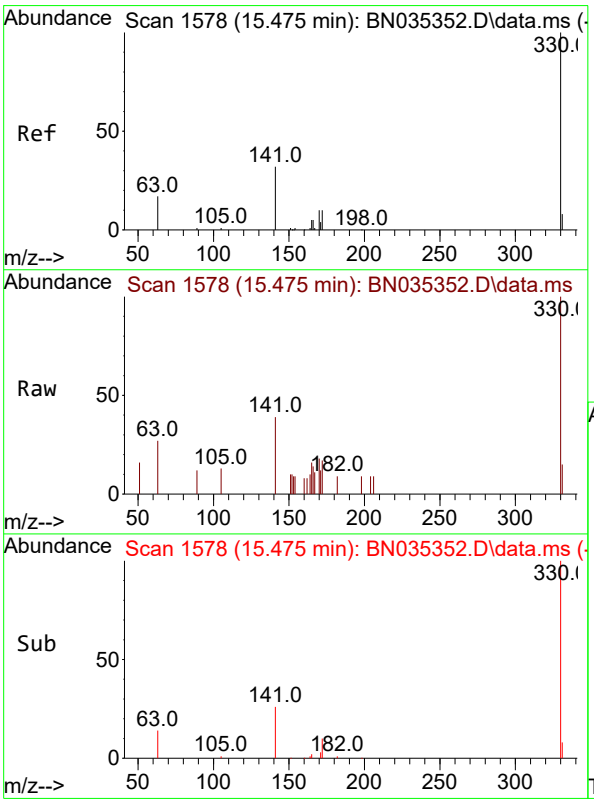
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1

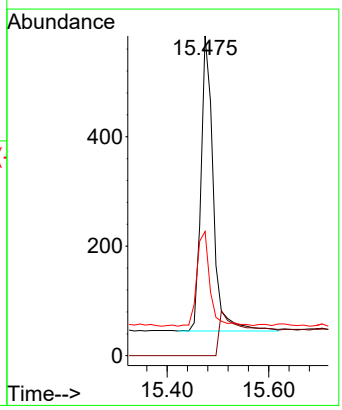


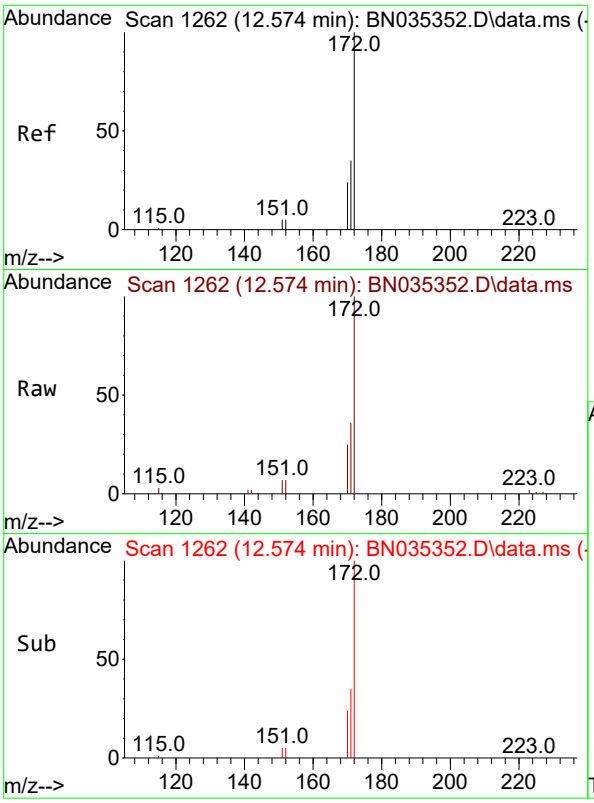


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



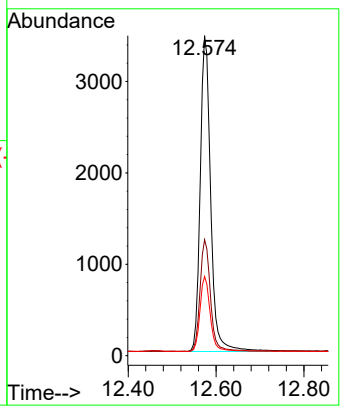


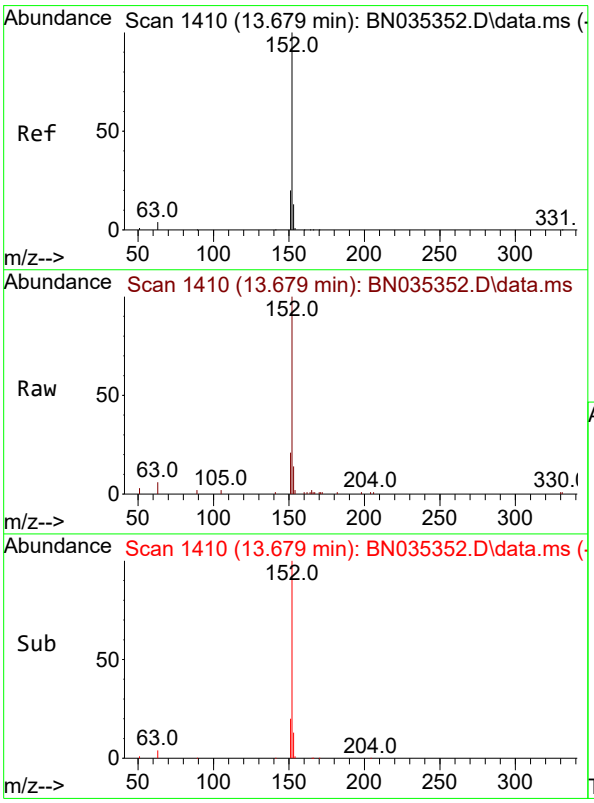
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

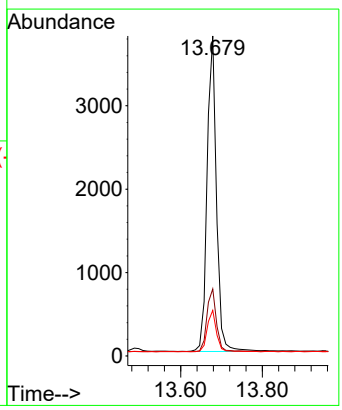


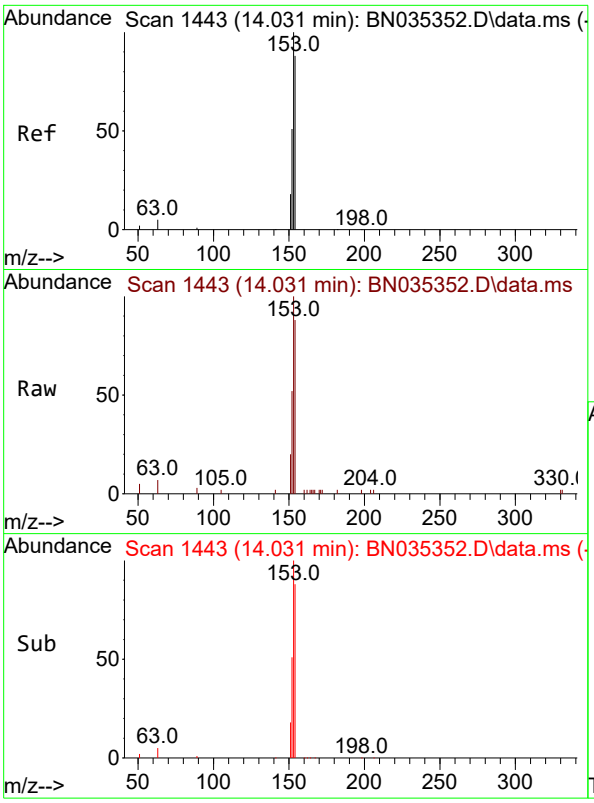


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



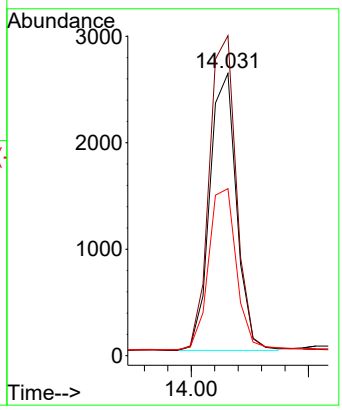


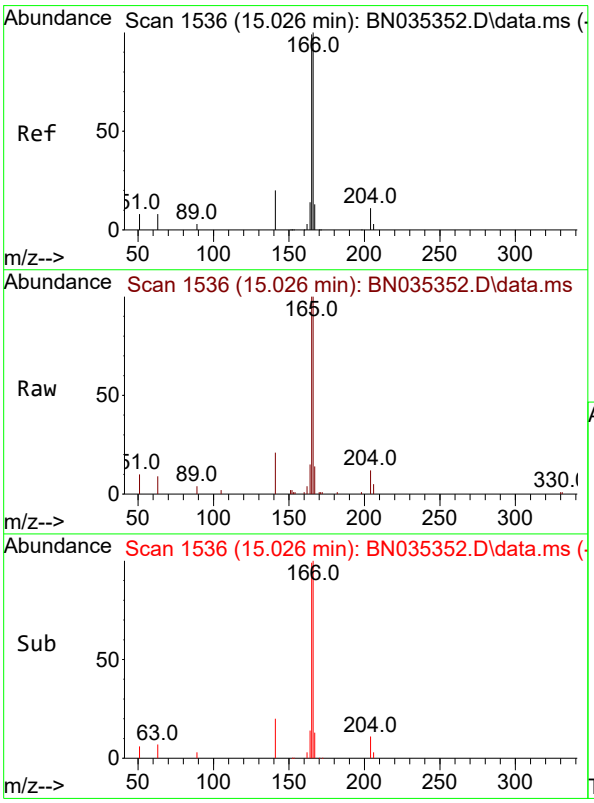
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6

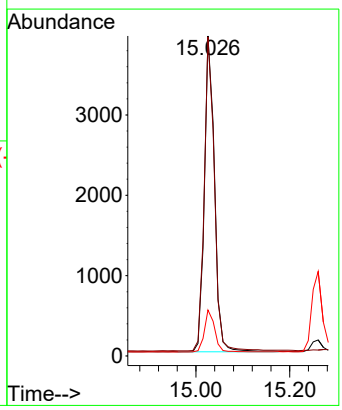


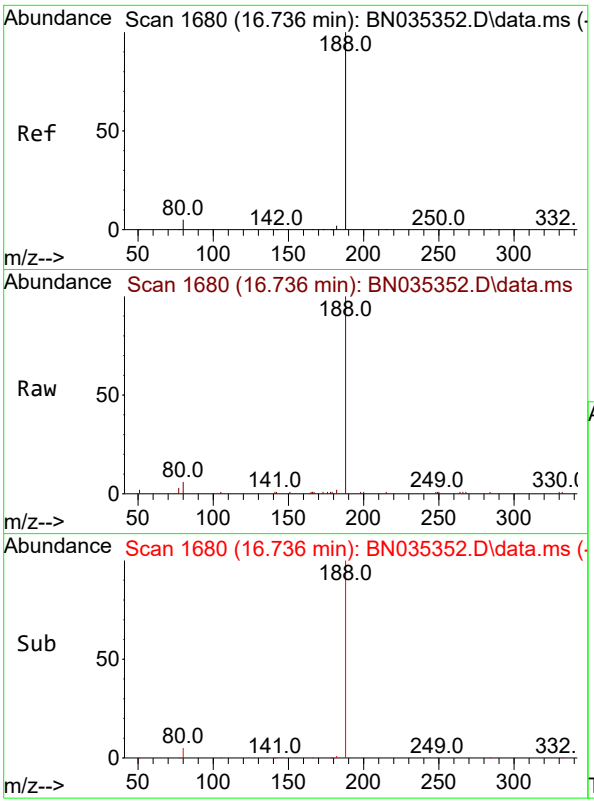


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2



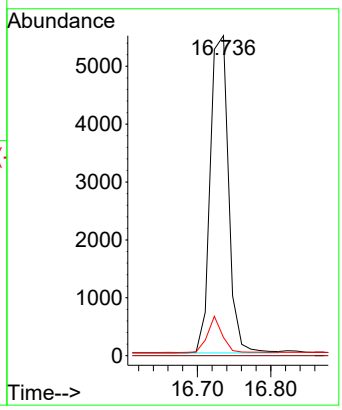


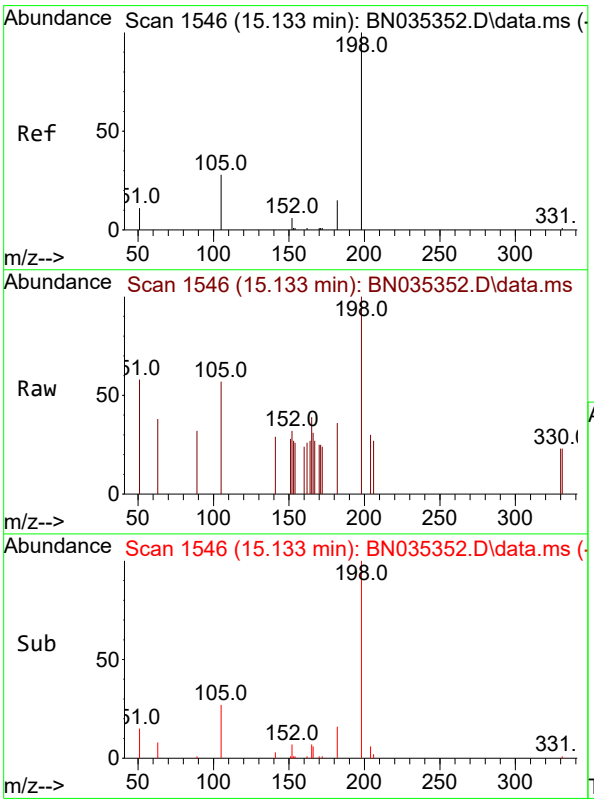
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

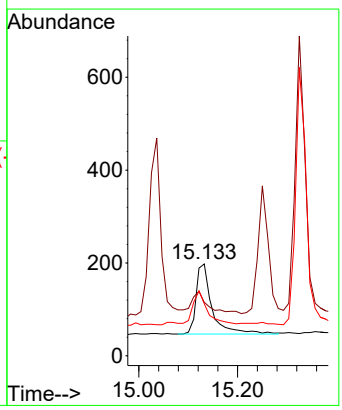


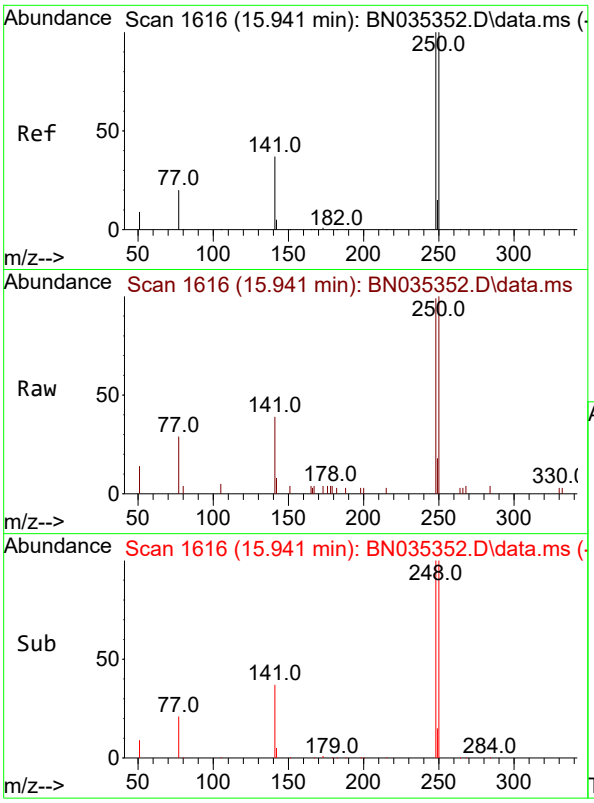


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9



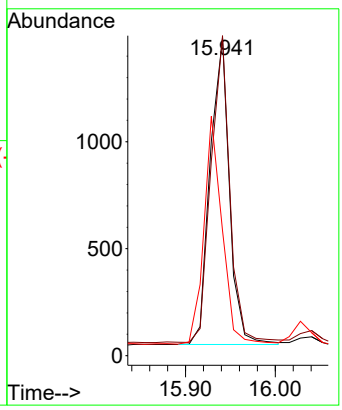


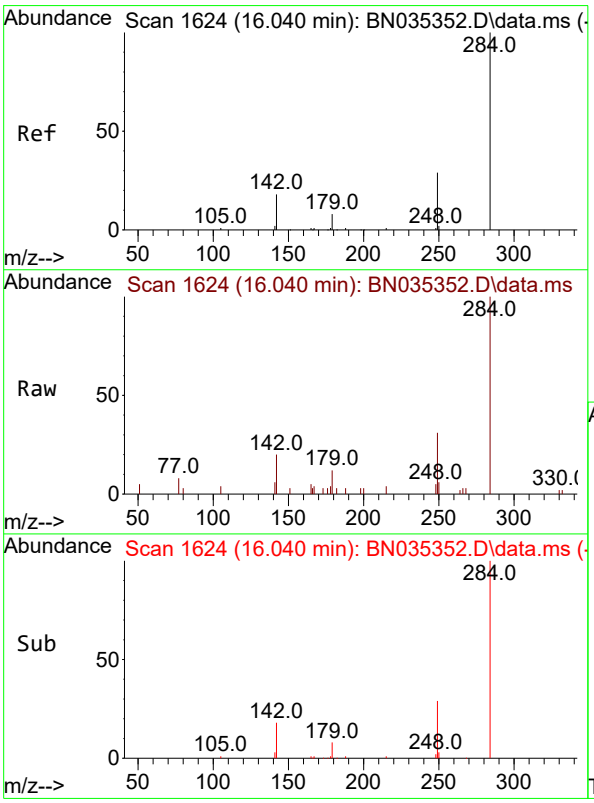
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

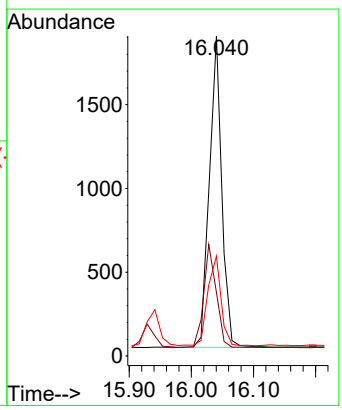


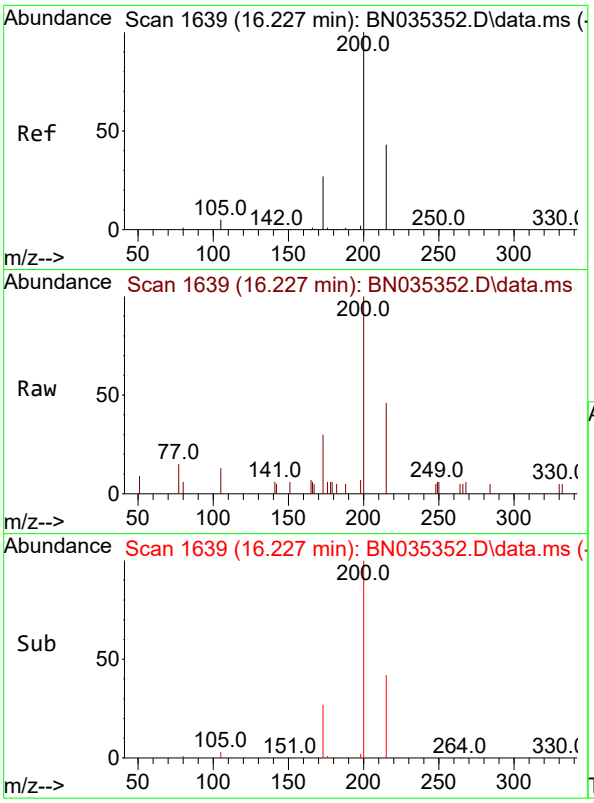


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8



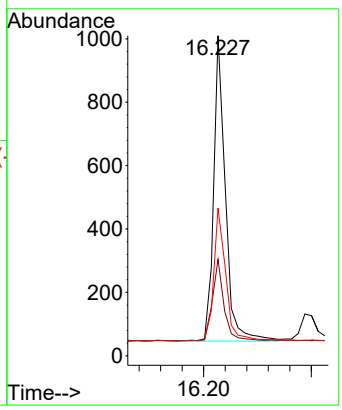


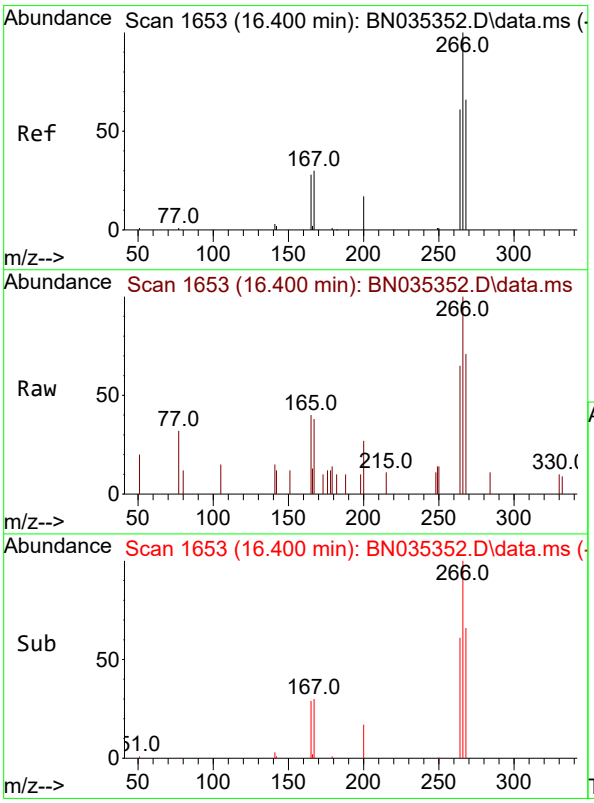
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3

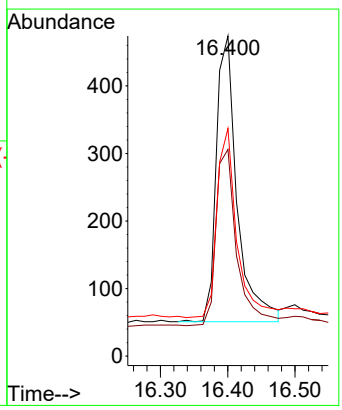


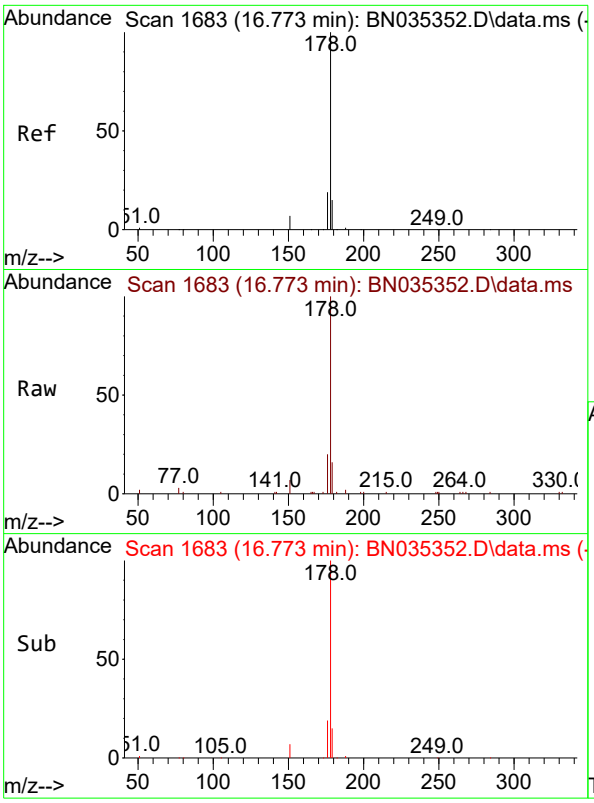


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



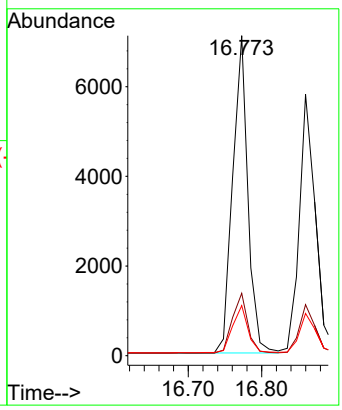


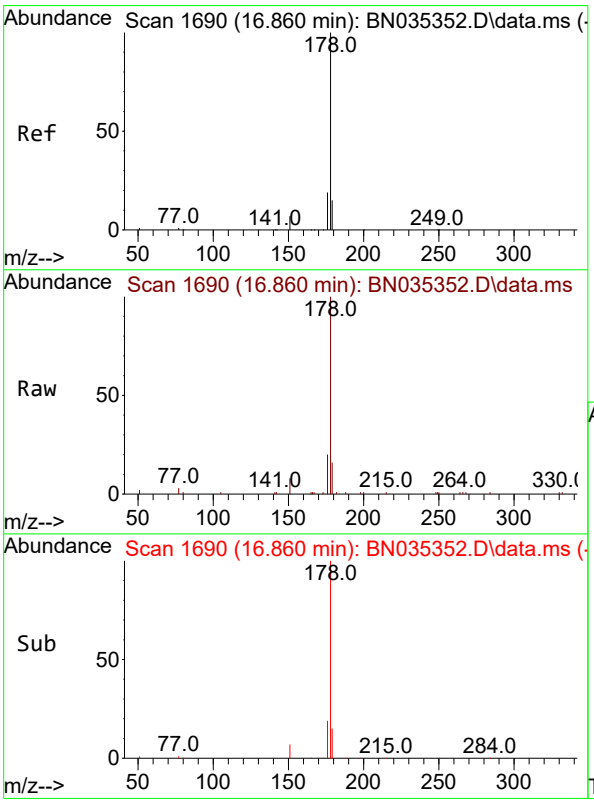
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

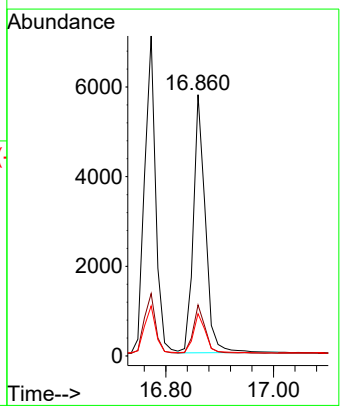


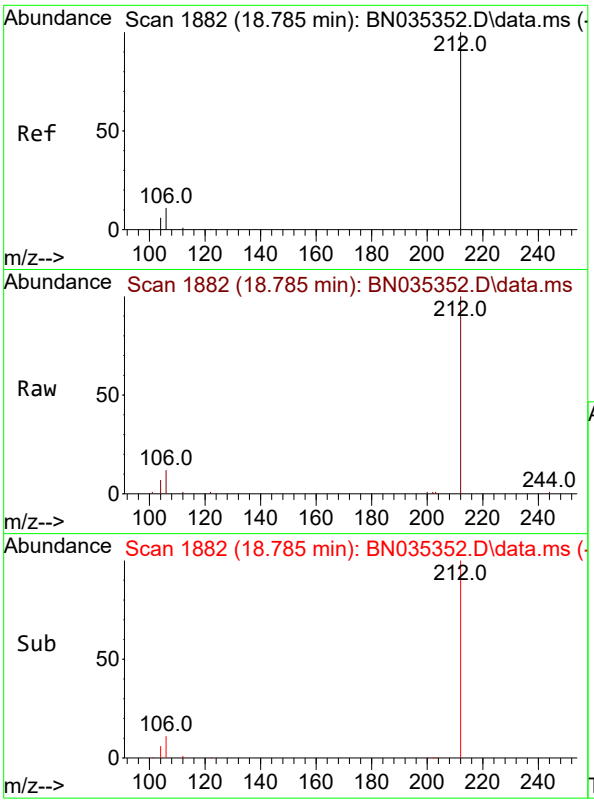


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8



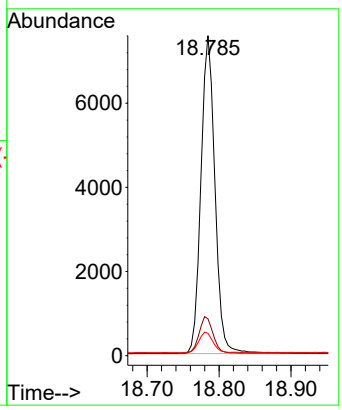


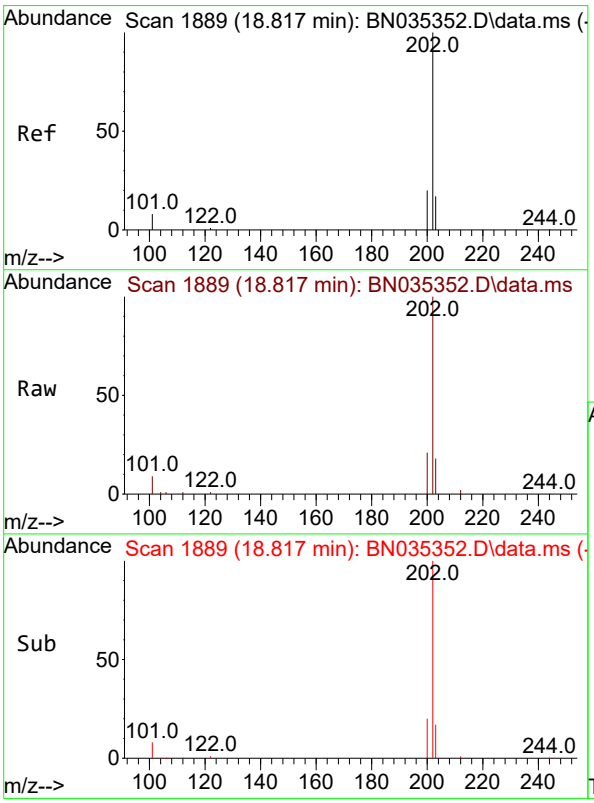
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

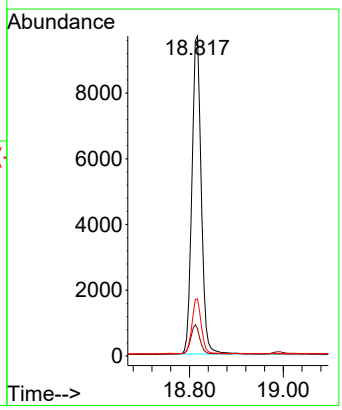


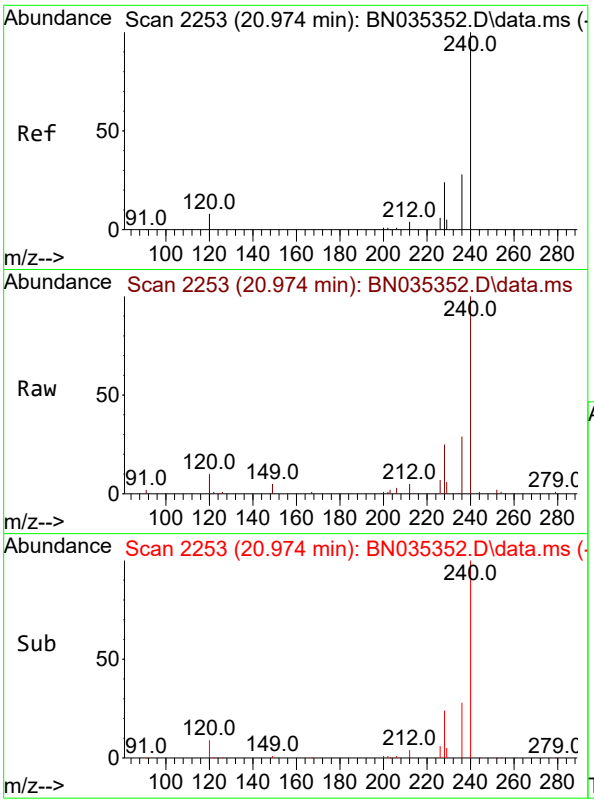


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



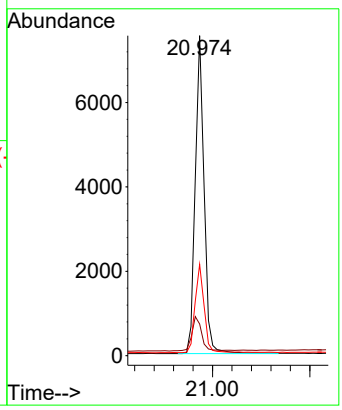


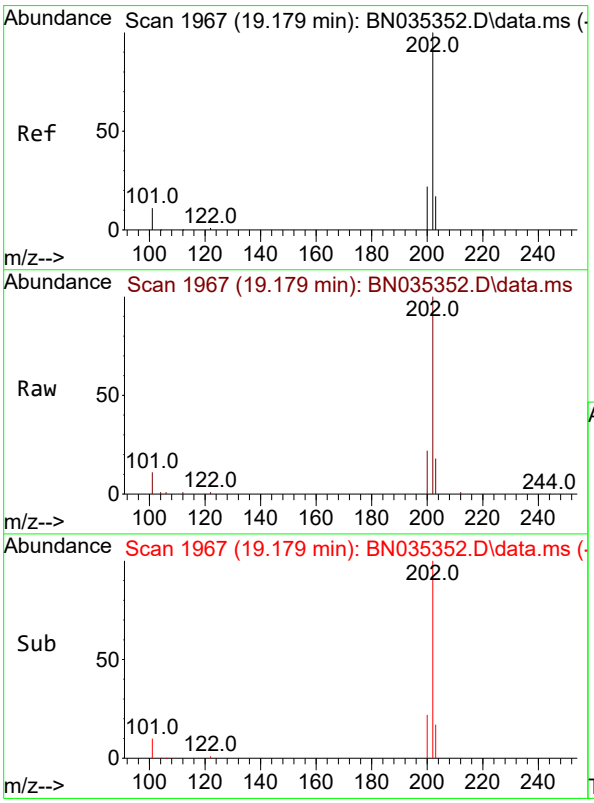
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

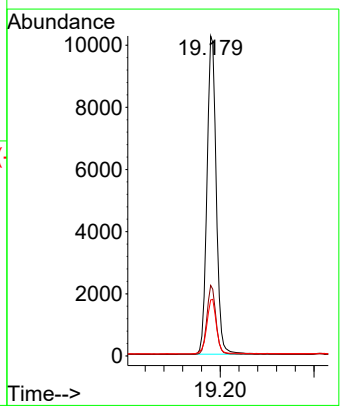


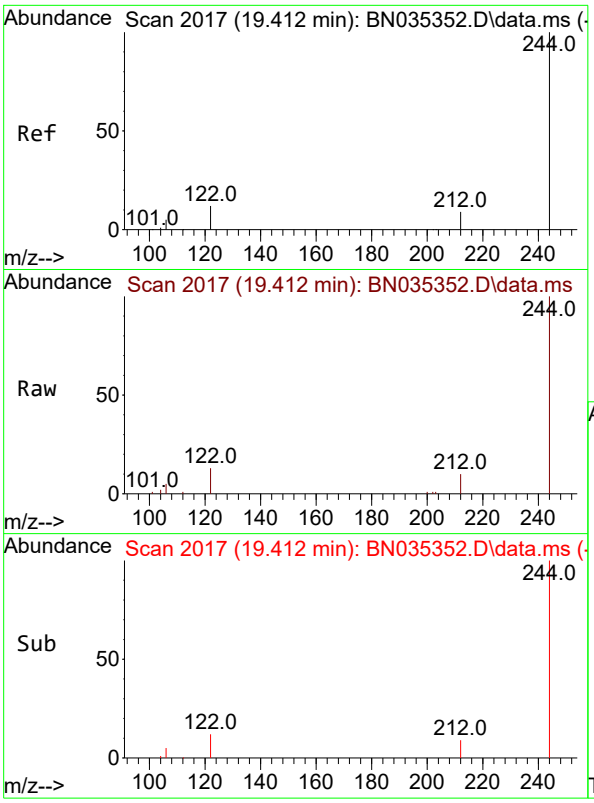


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



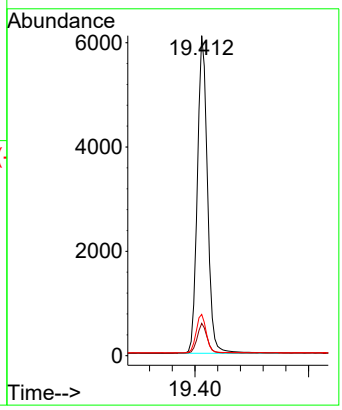


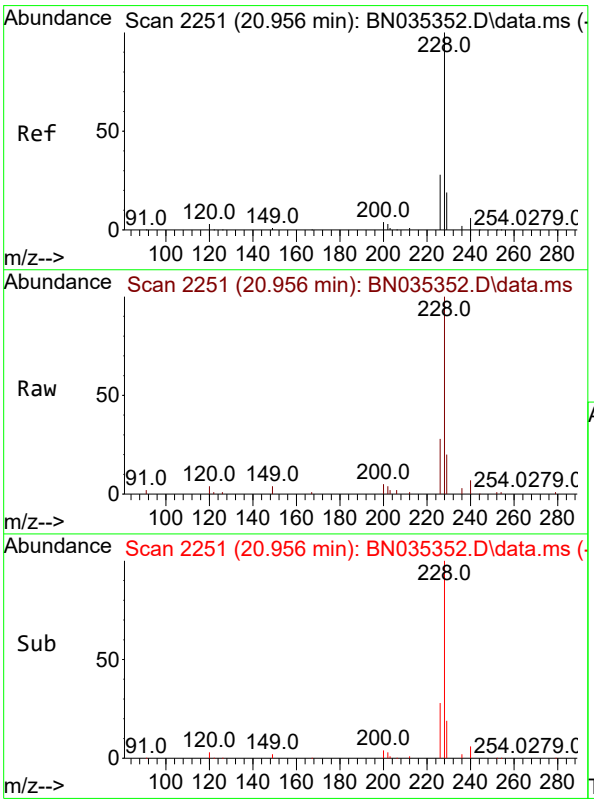
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

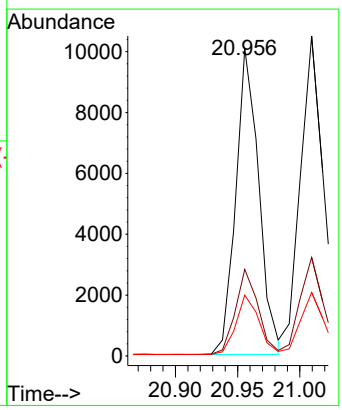


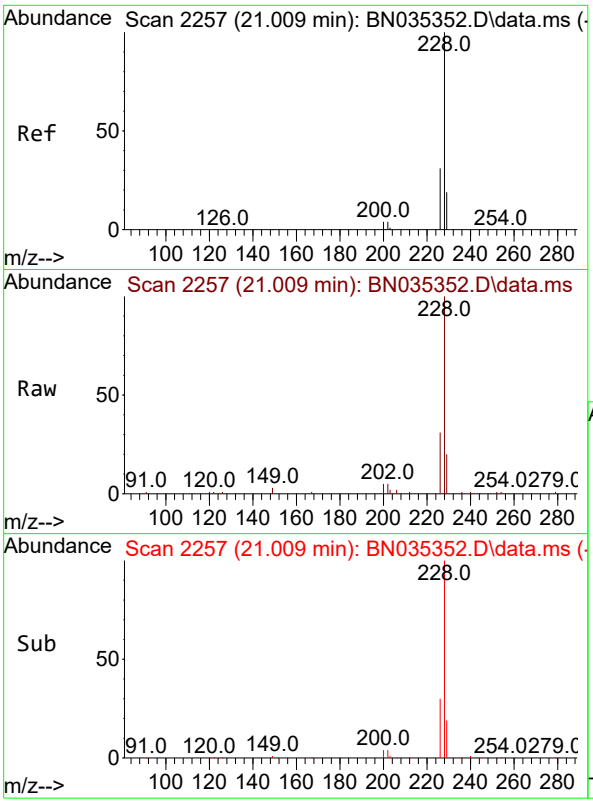


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8



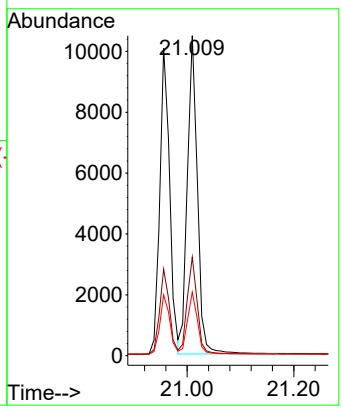


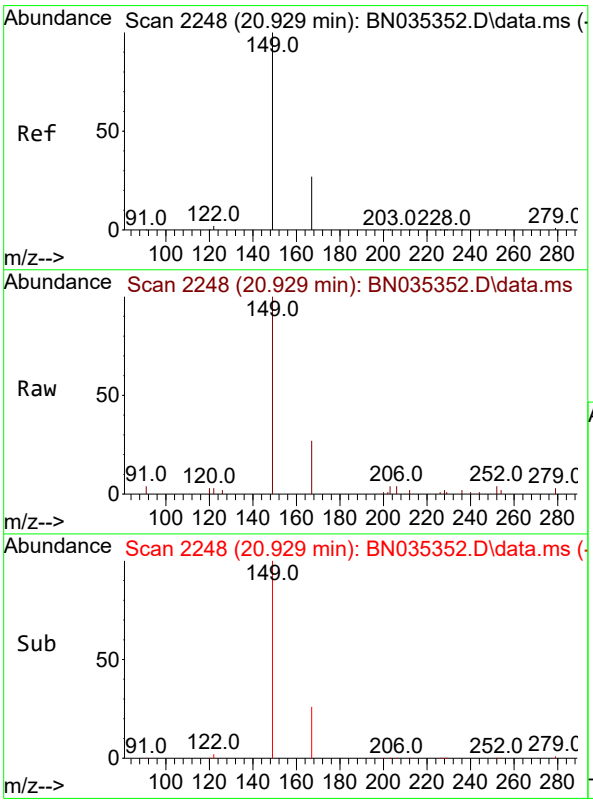
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

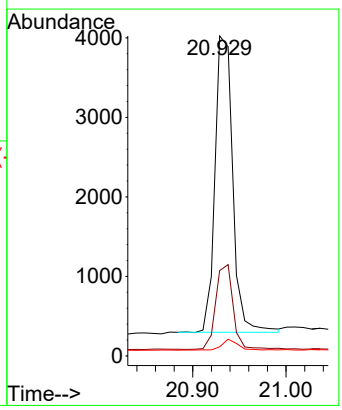


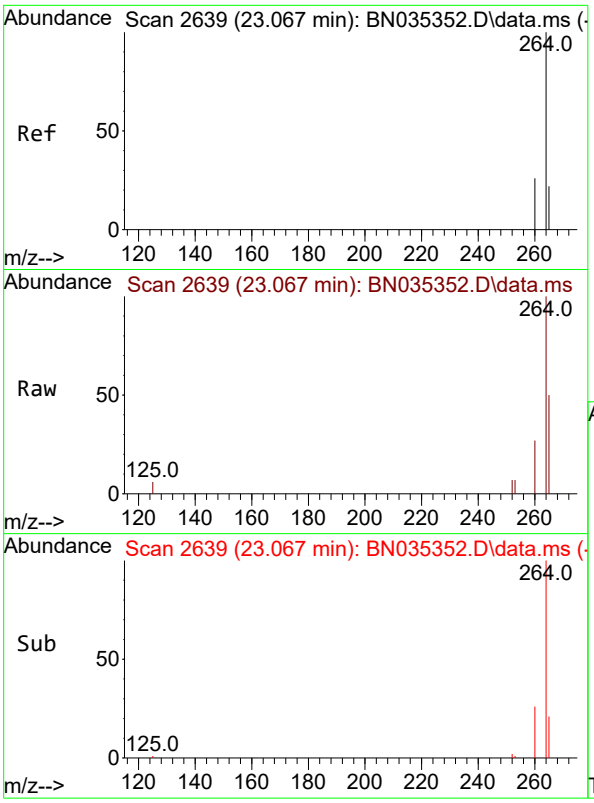


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1



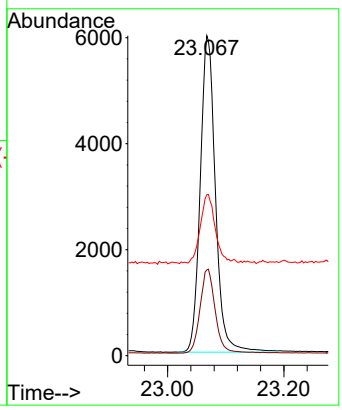


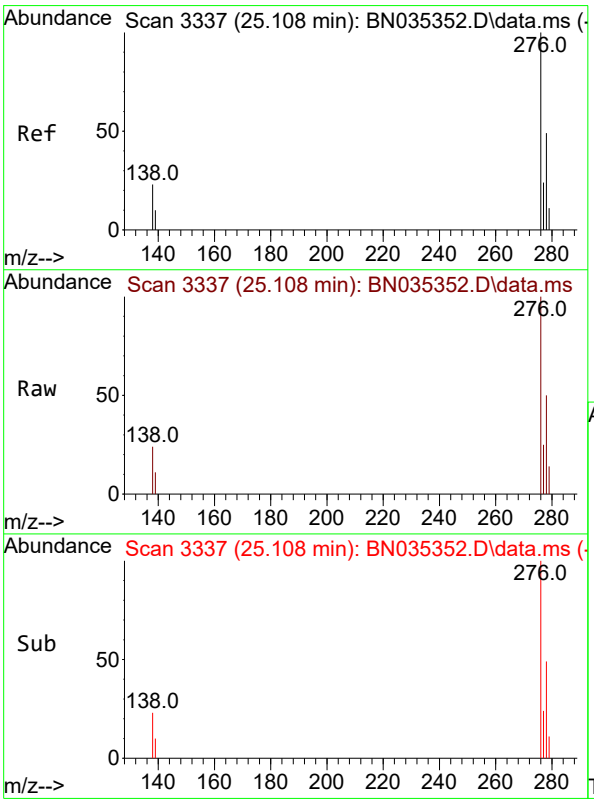
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

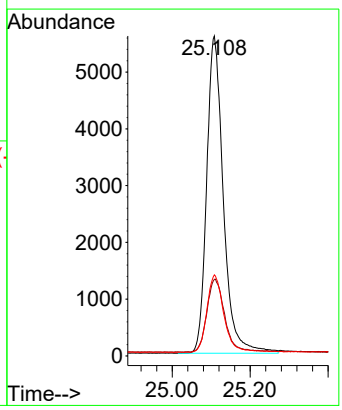


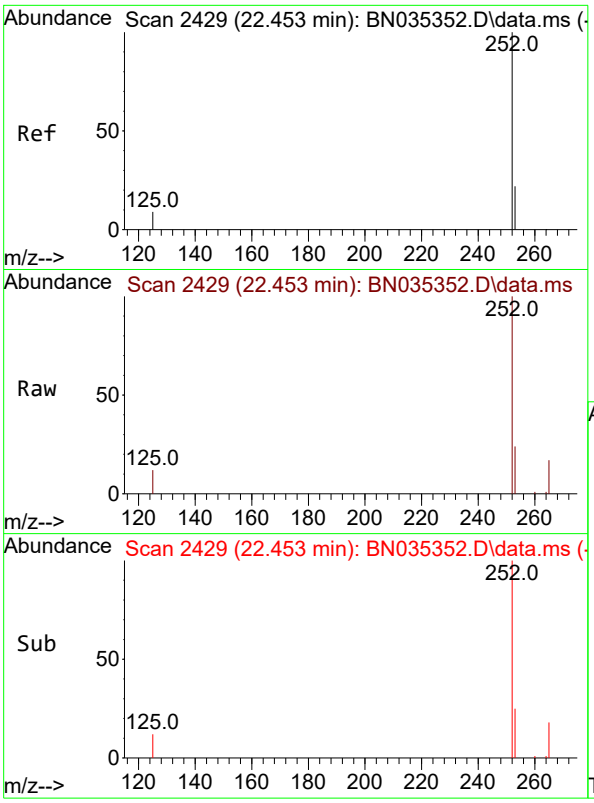


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6



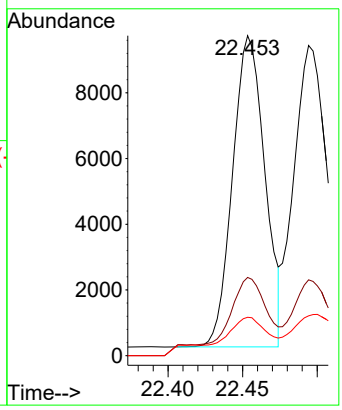


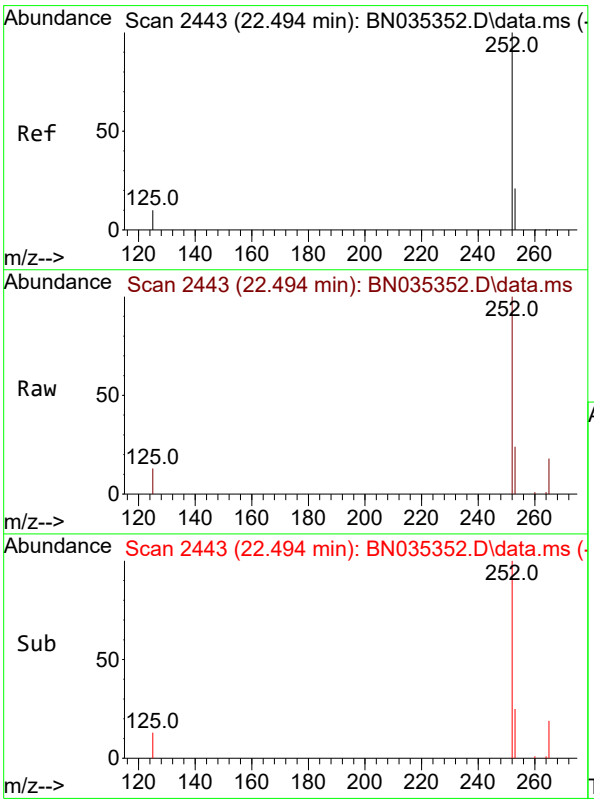
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

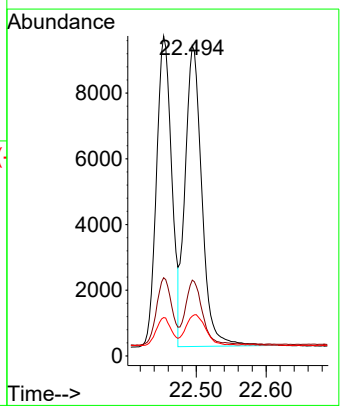


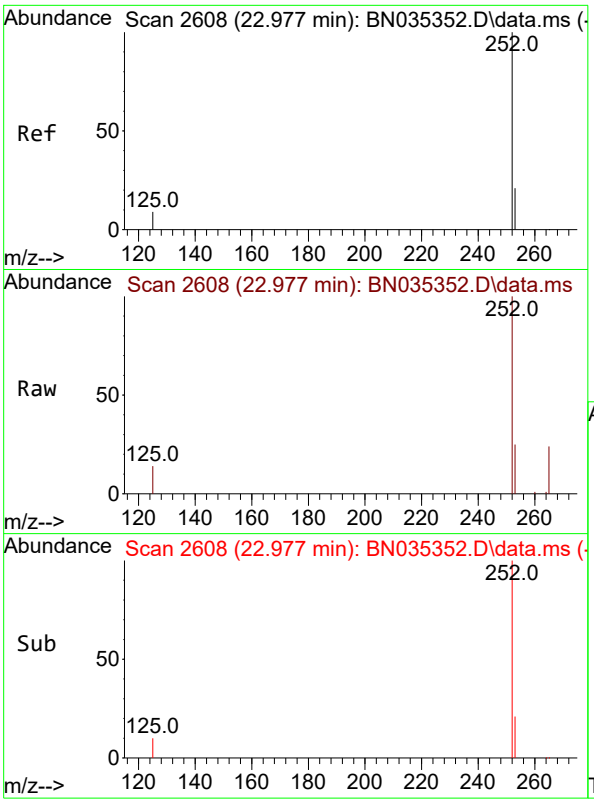


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4



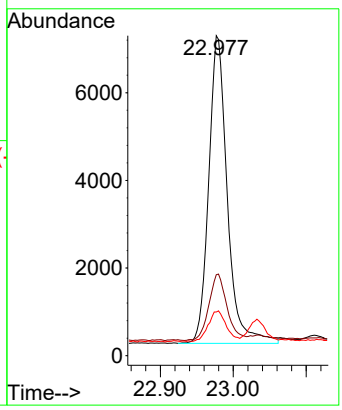


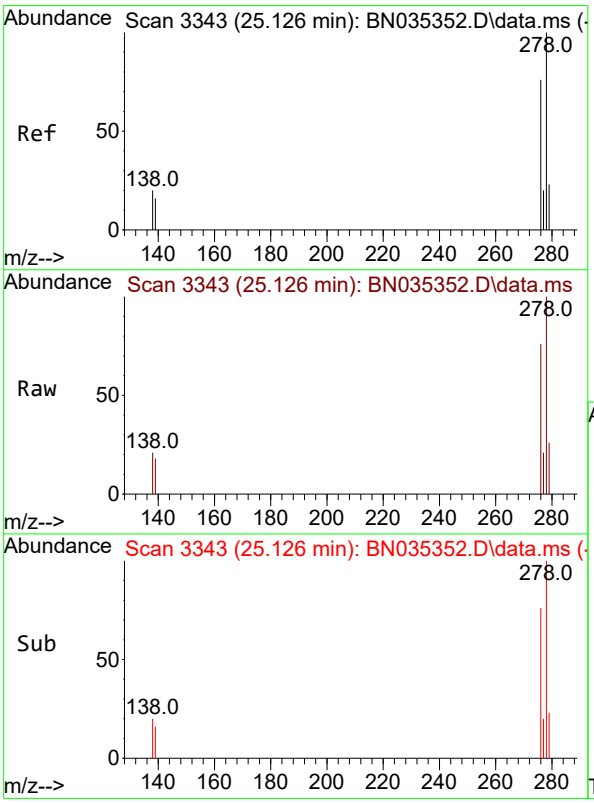
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

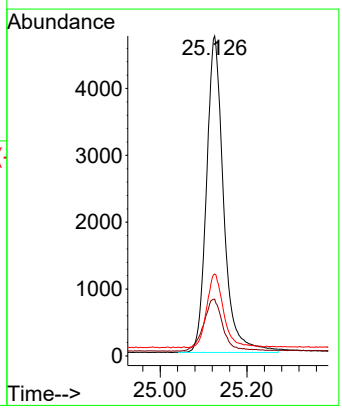


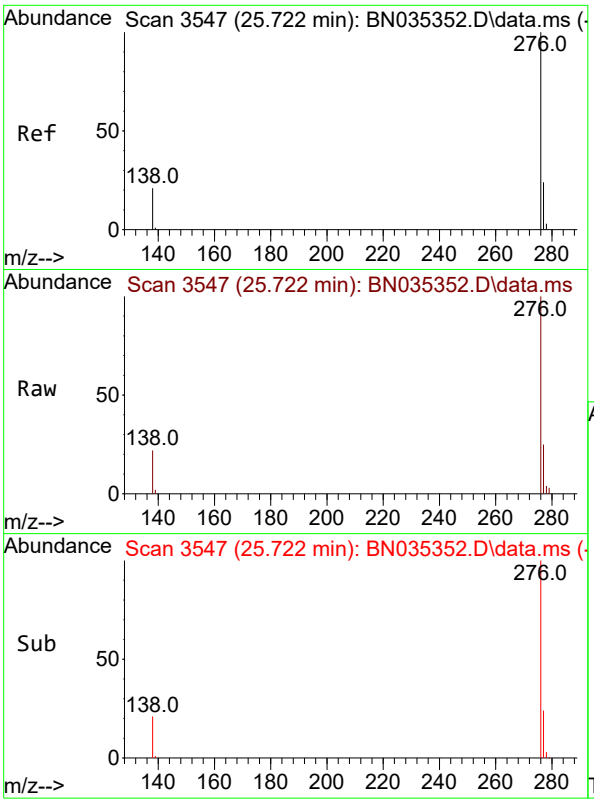


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



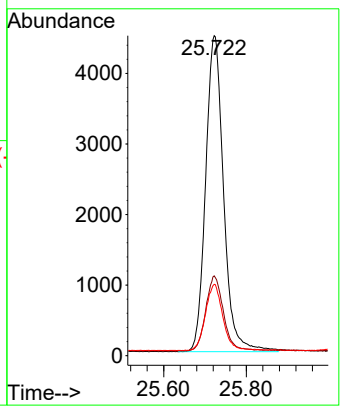


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

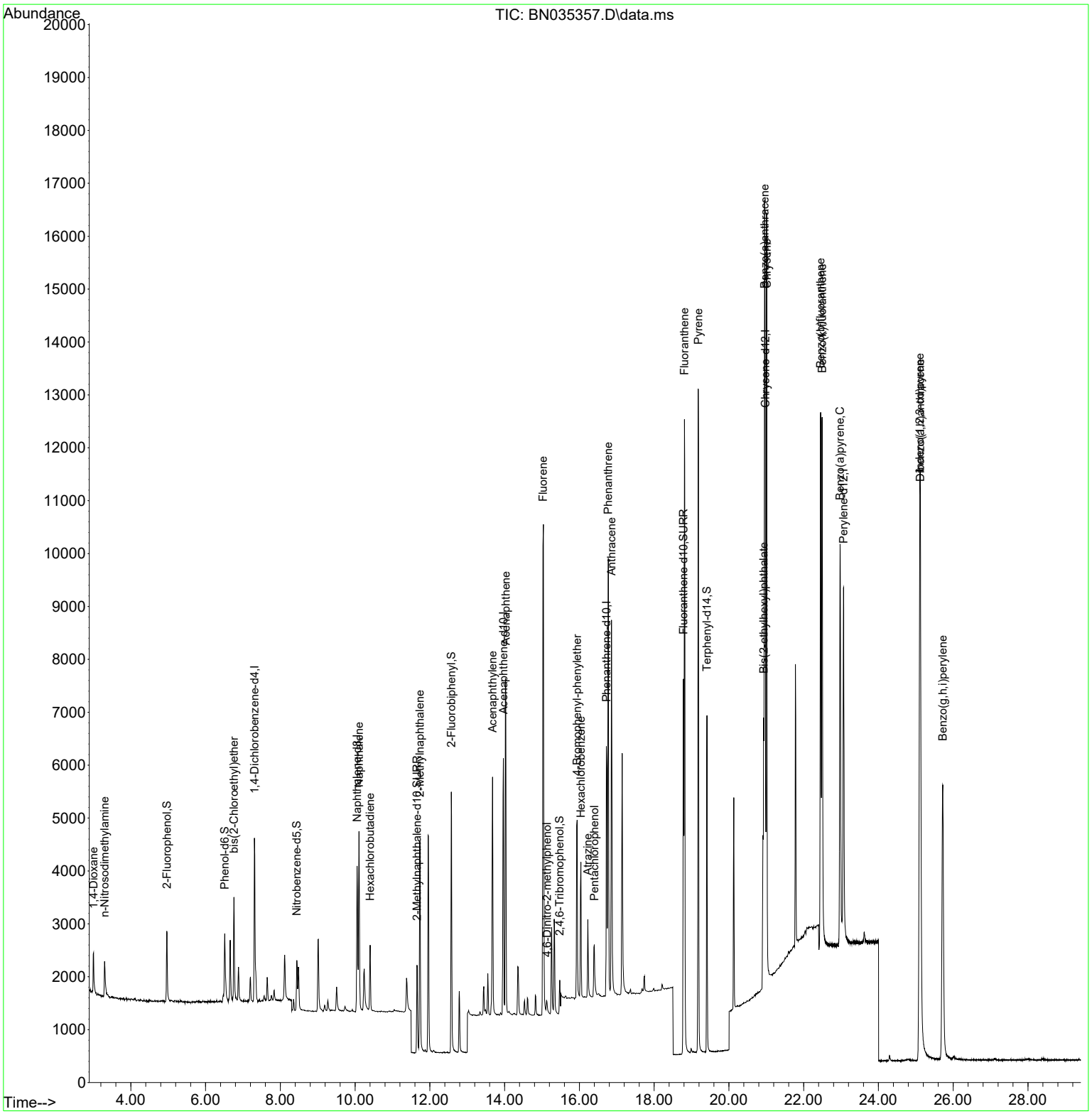
(#) = qualifier out of range (m) = manual integration (+) = signals summed

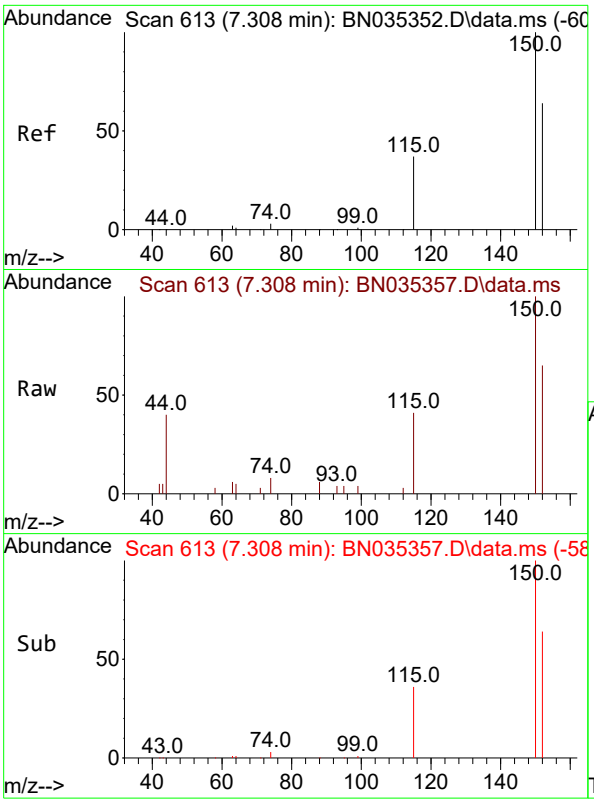
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



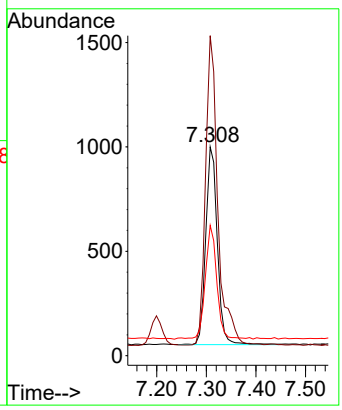


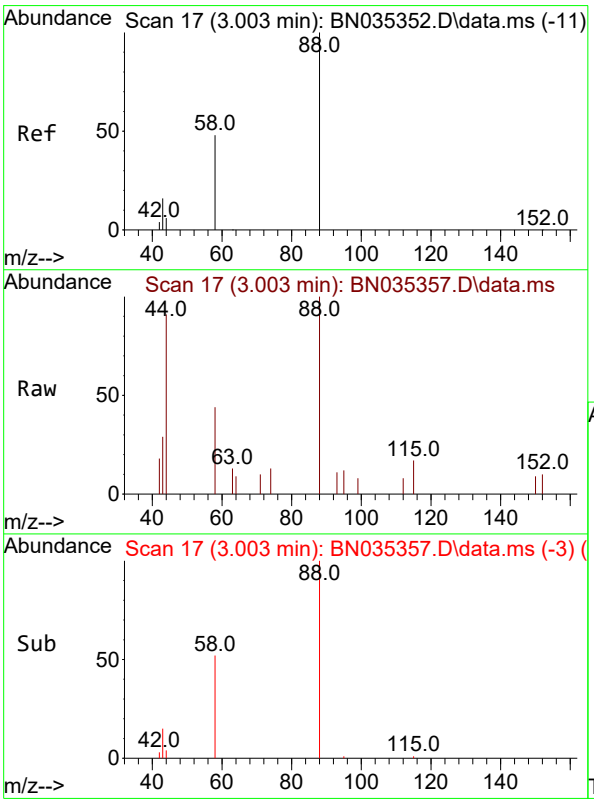
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 1540

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4

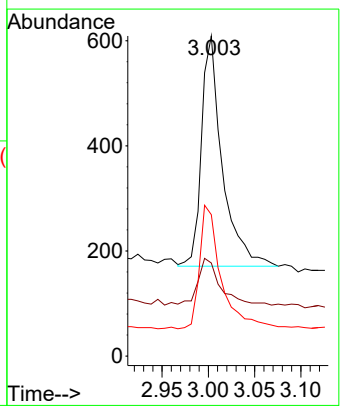


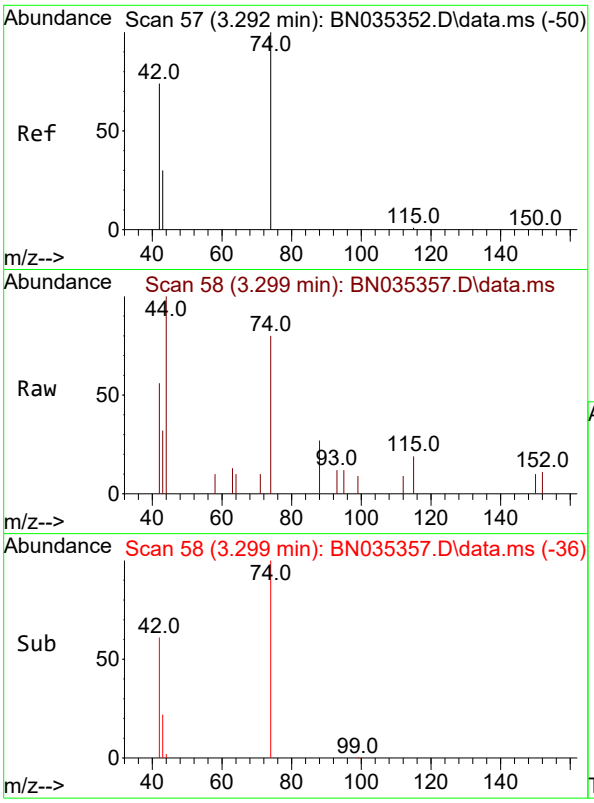


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7



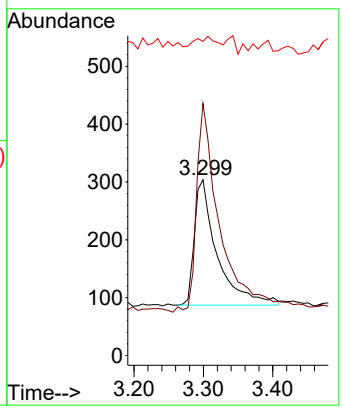


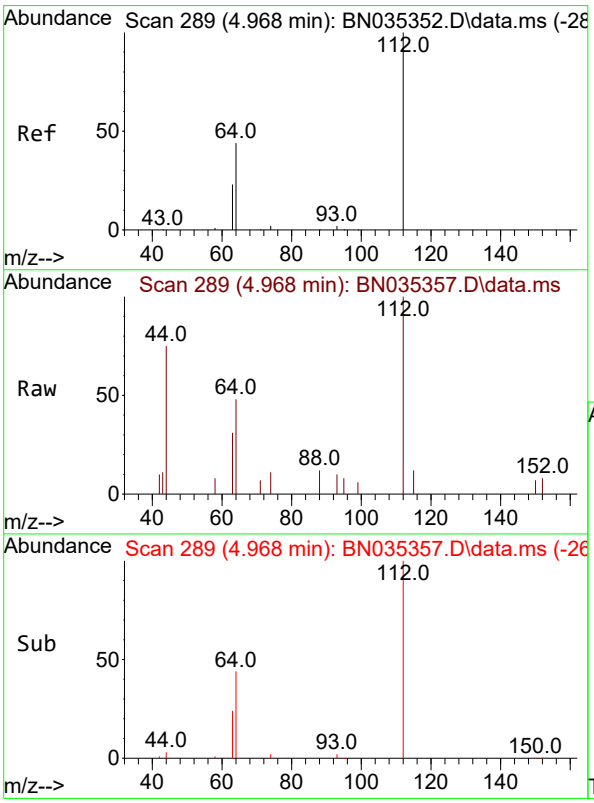
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 42 Resp: 495

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4#

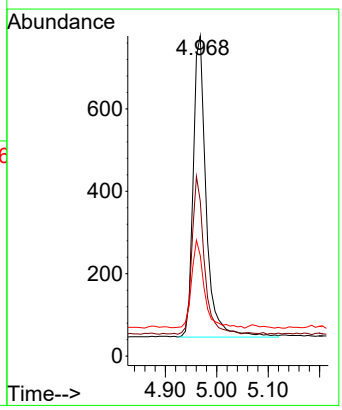


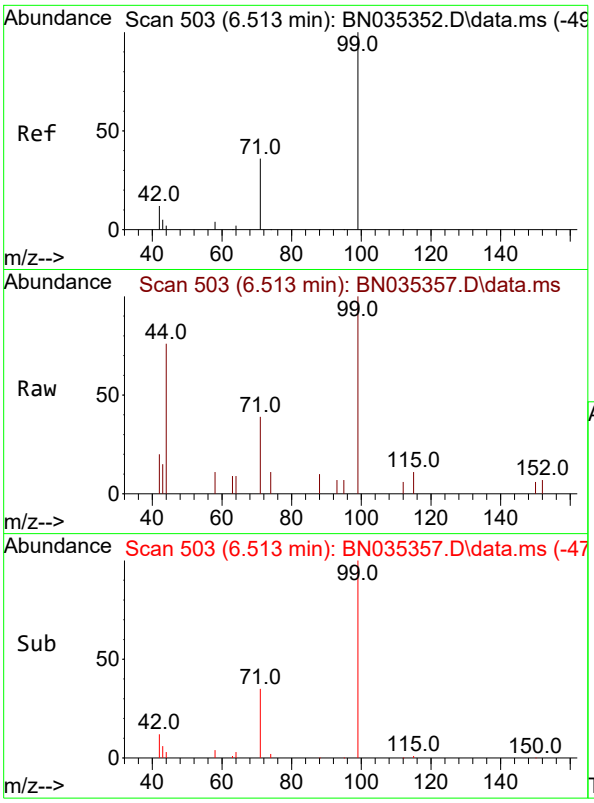


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6



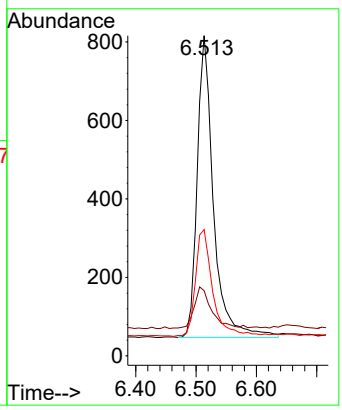


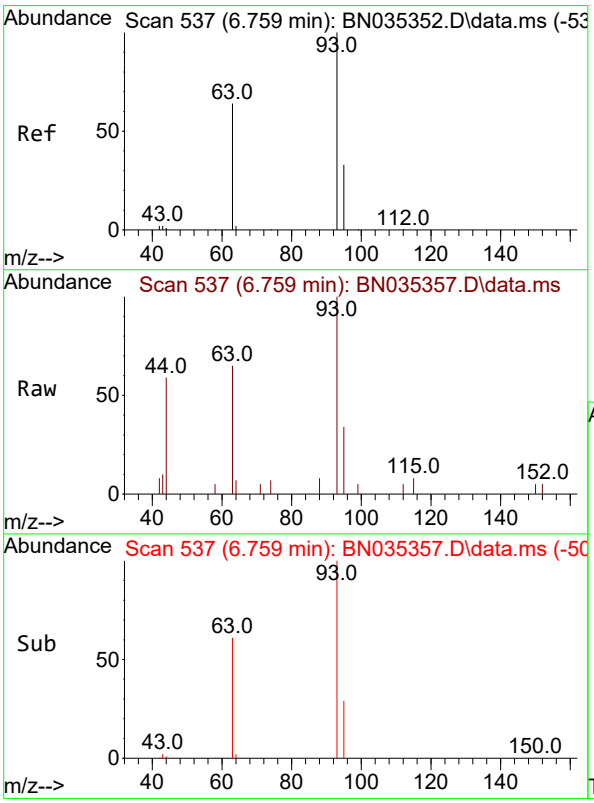
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 1437

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

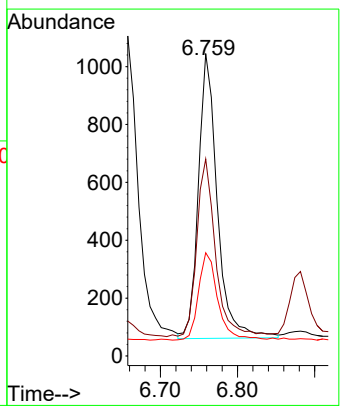


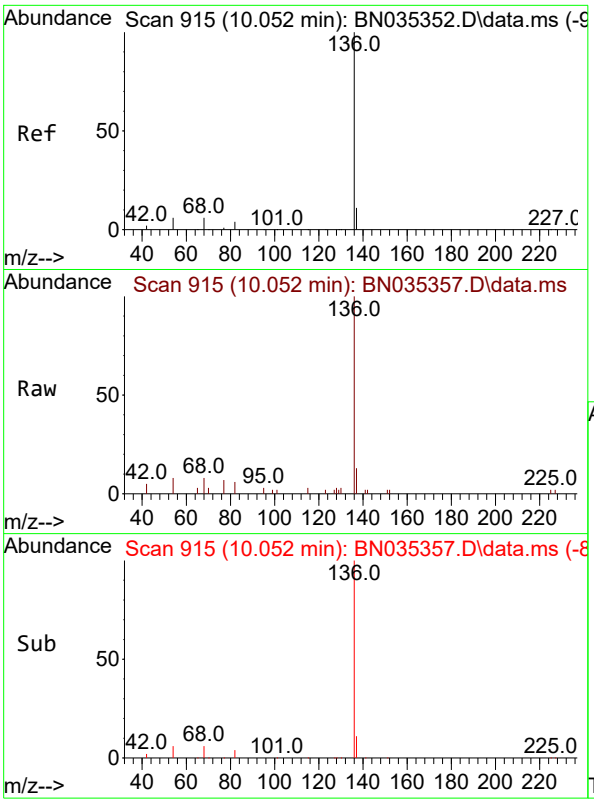


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



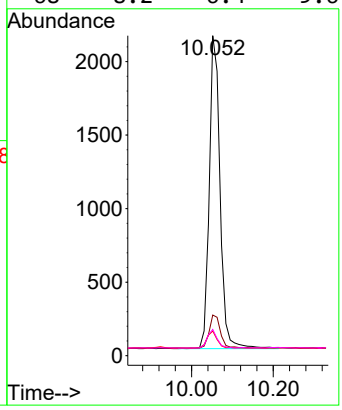


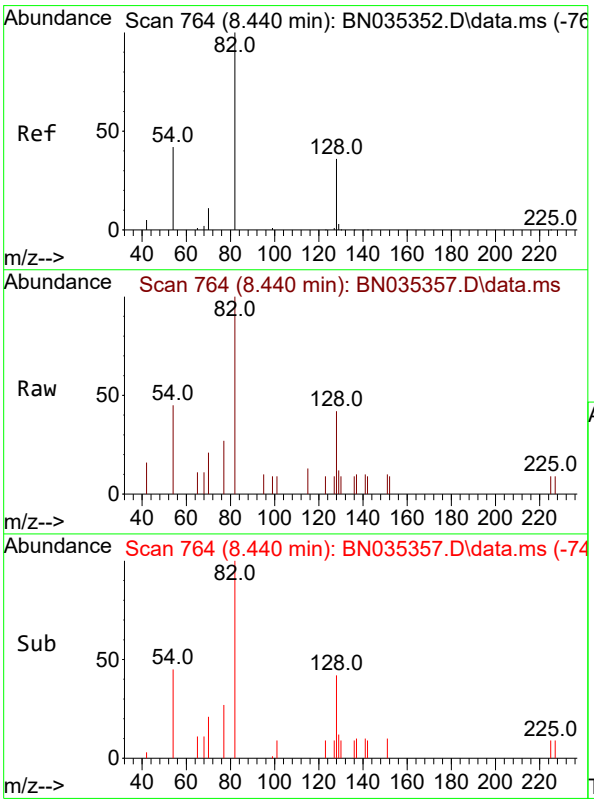
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:136 Resp: 3904

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

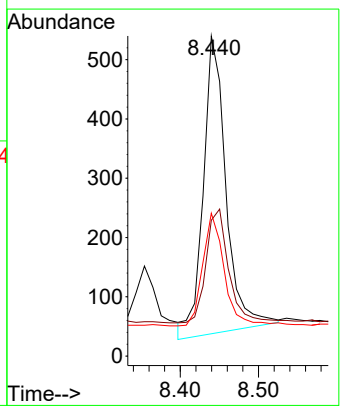


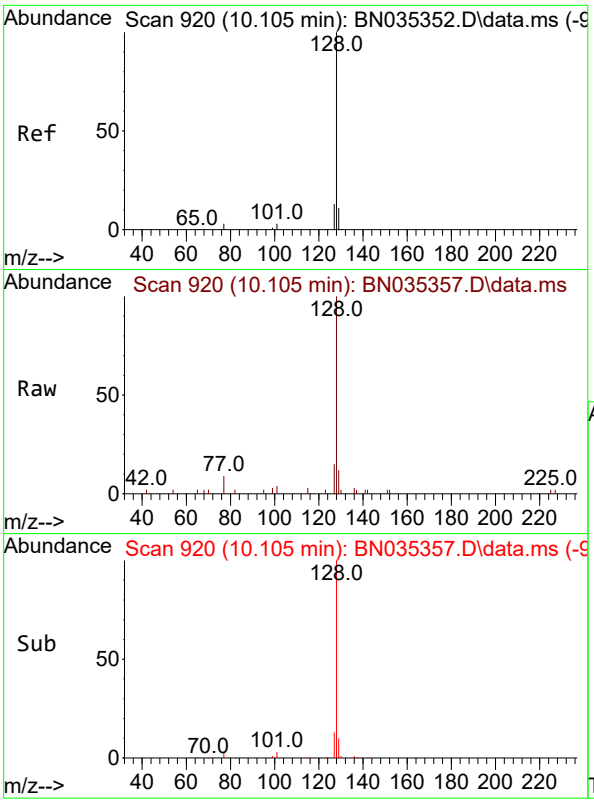


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1



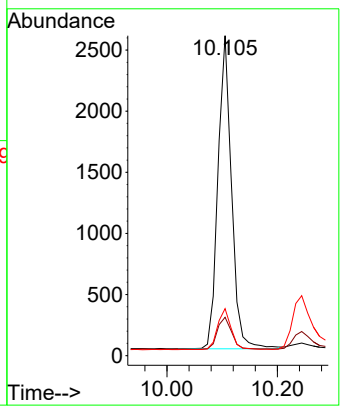


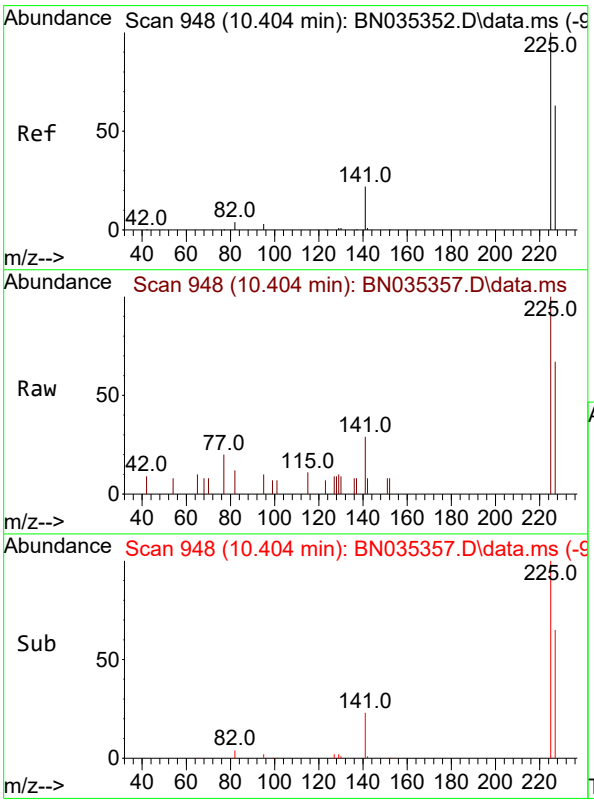
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:128 Resp: 4364

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2

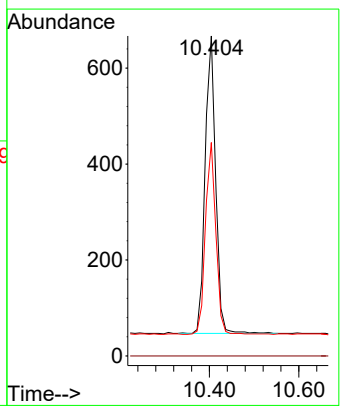


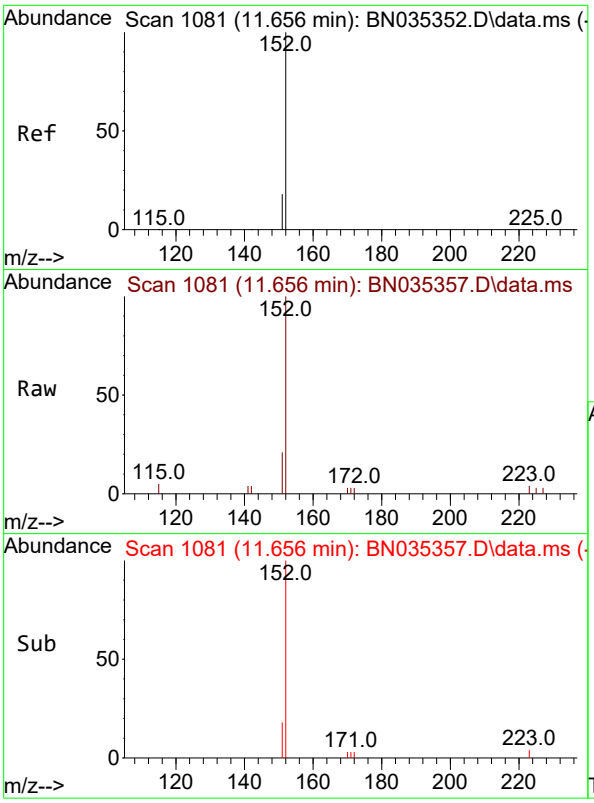


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



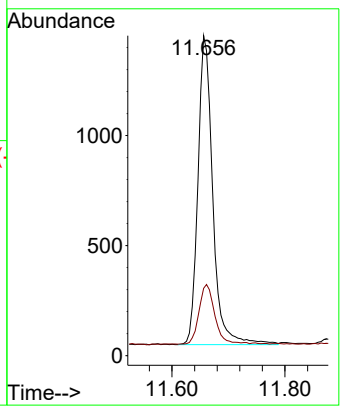


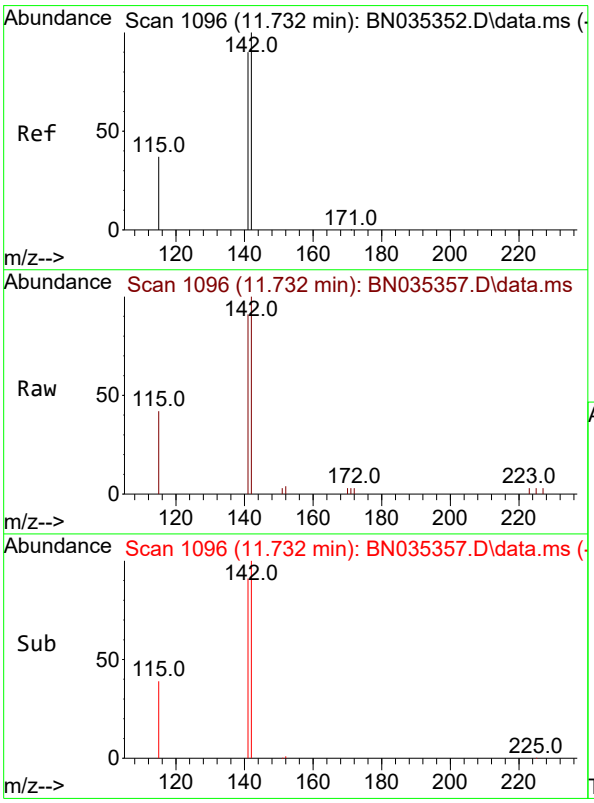
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

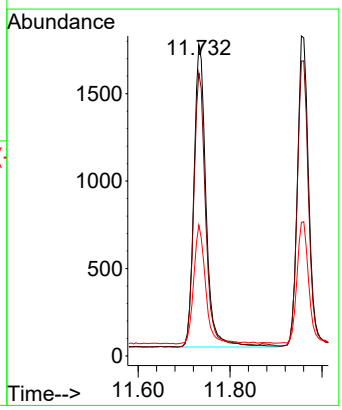


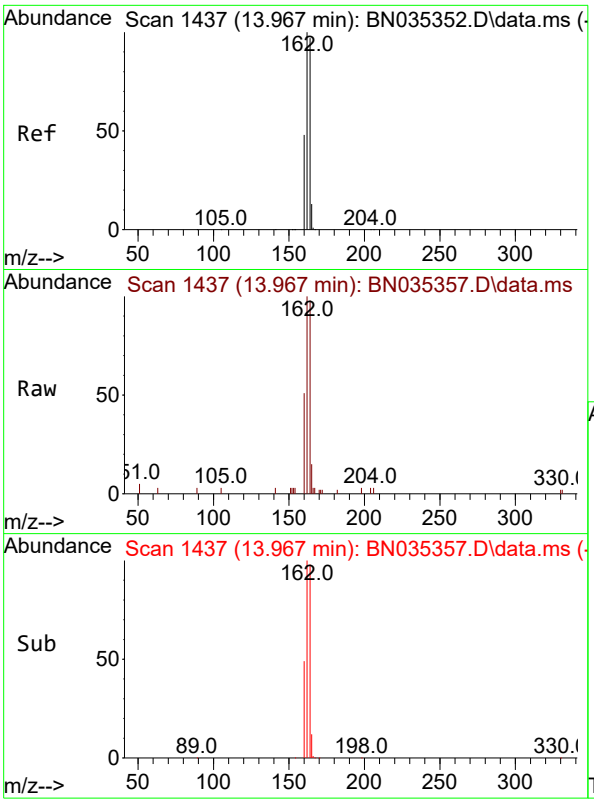


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0



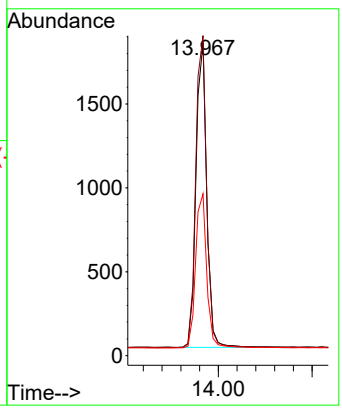


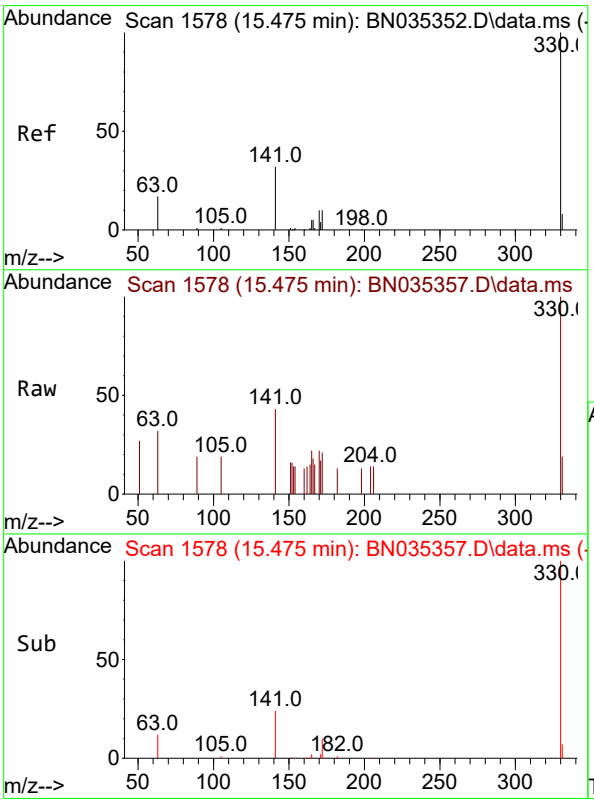
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:164 Resp: 2879

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1

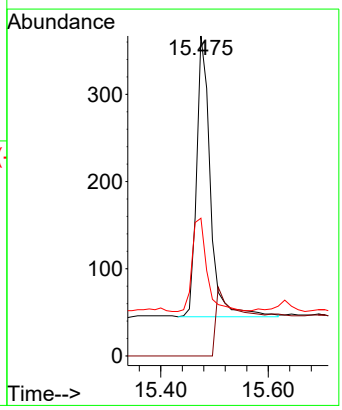


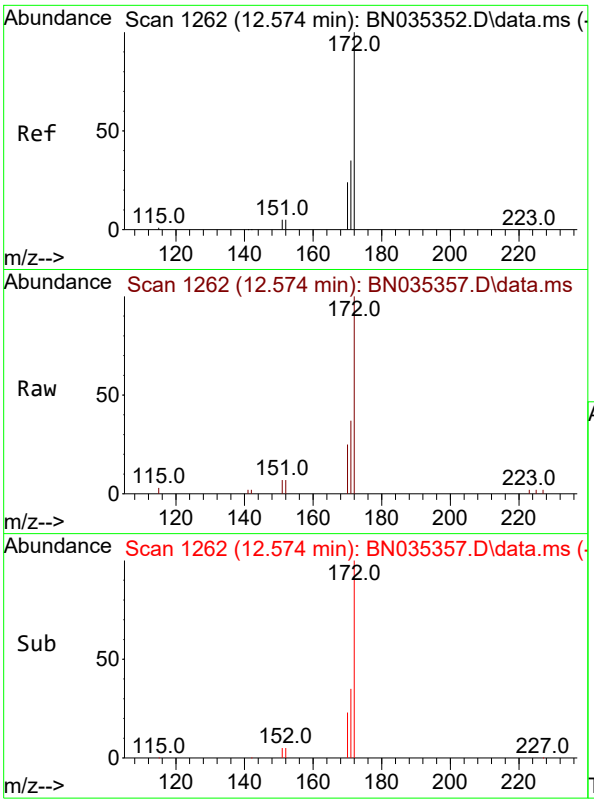


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



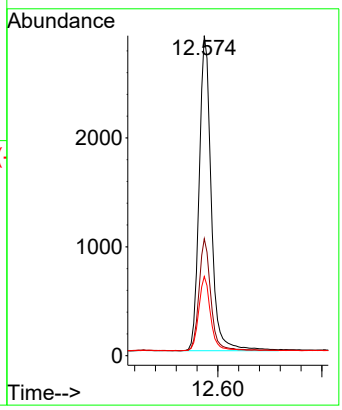


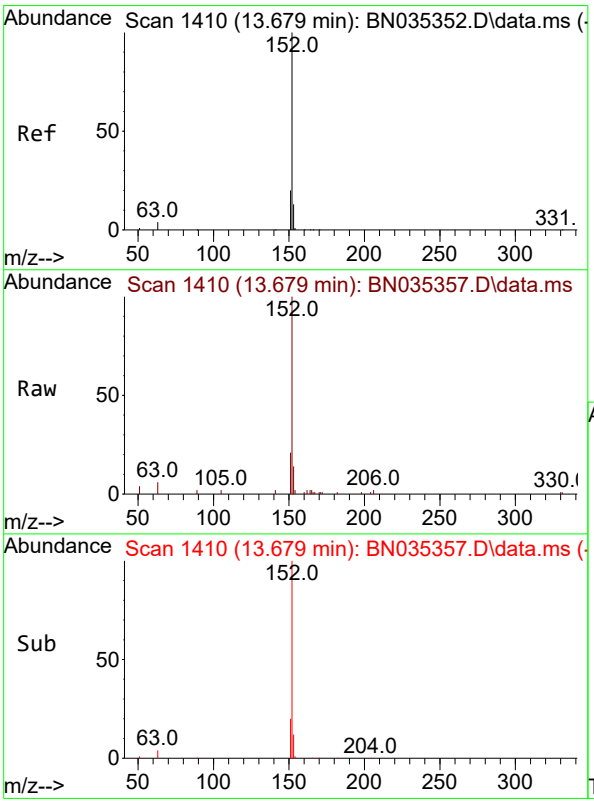
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8

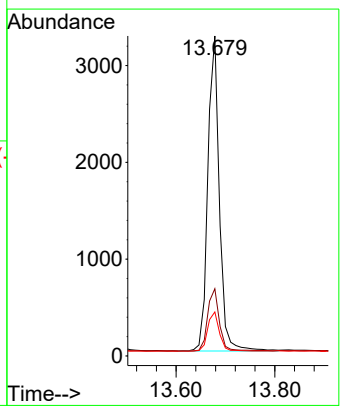


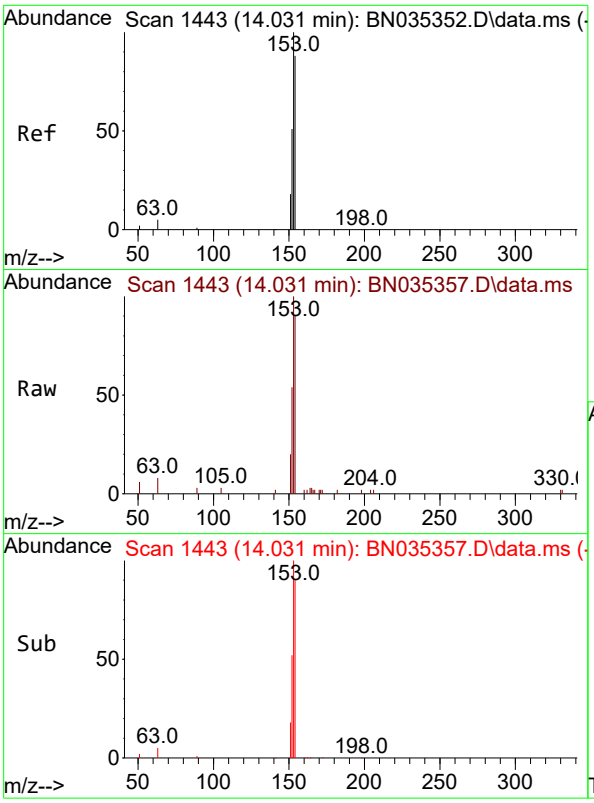


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6



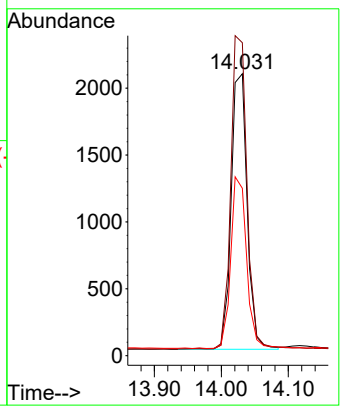


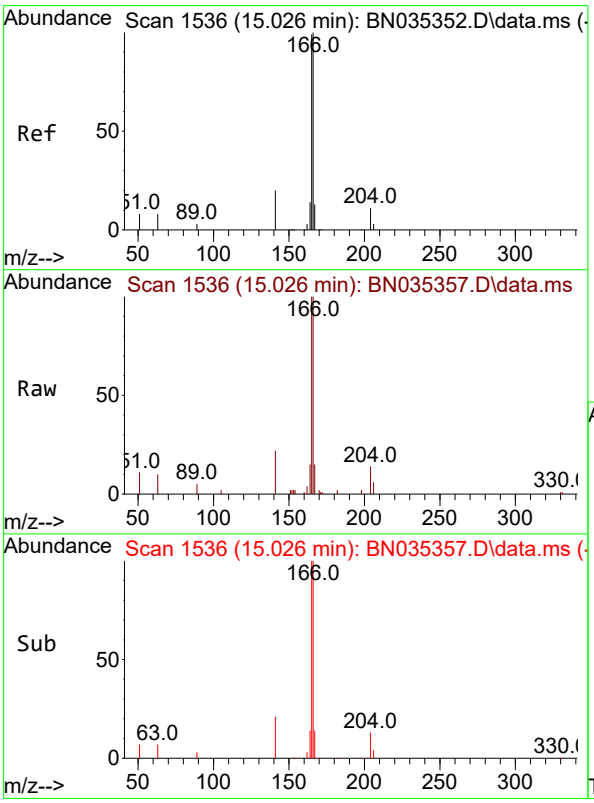
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:154 Resp: 3421

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

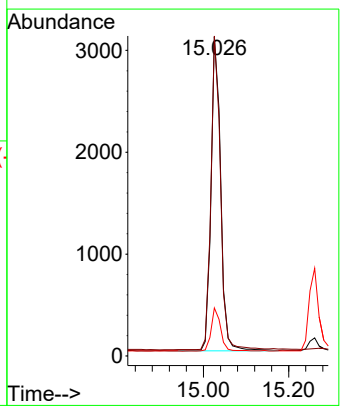


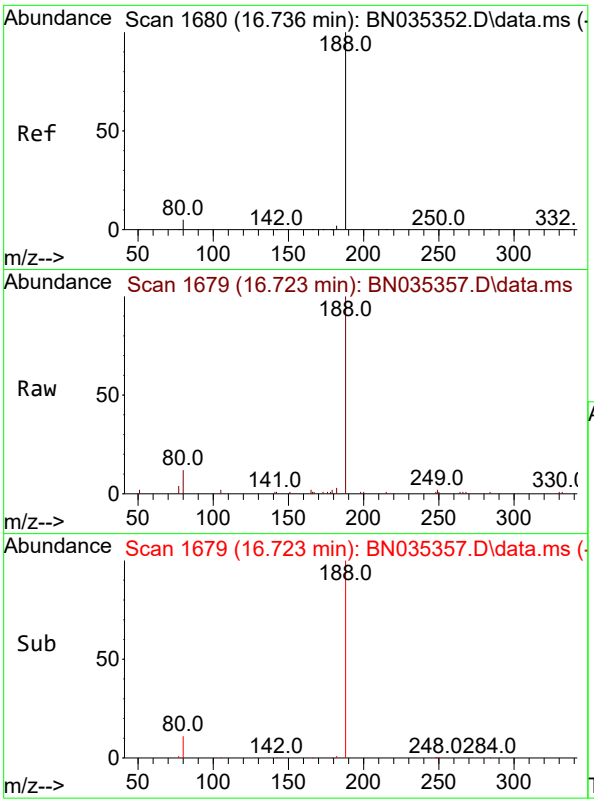


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2



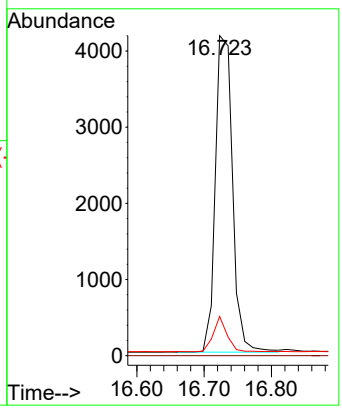


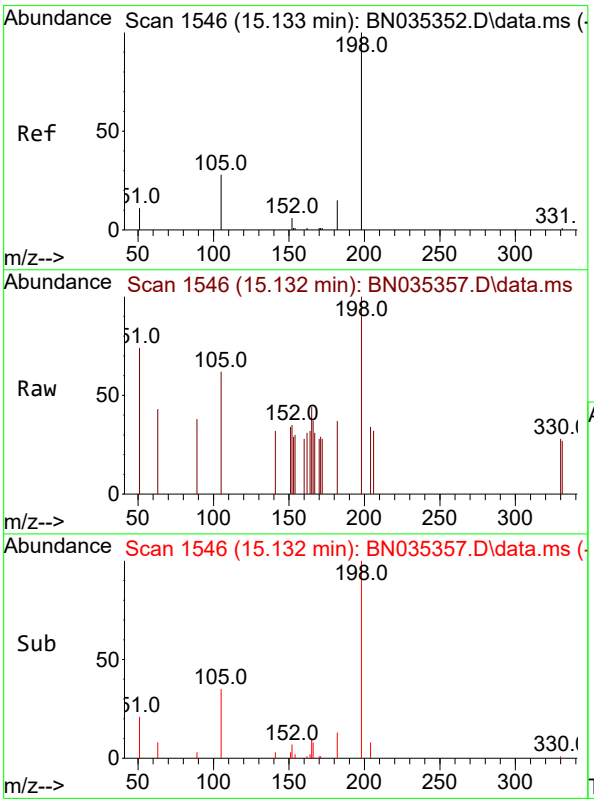
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:188 Resp: 7350

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

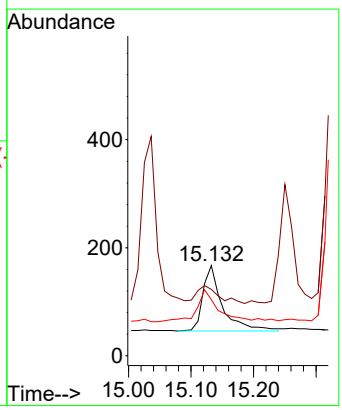


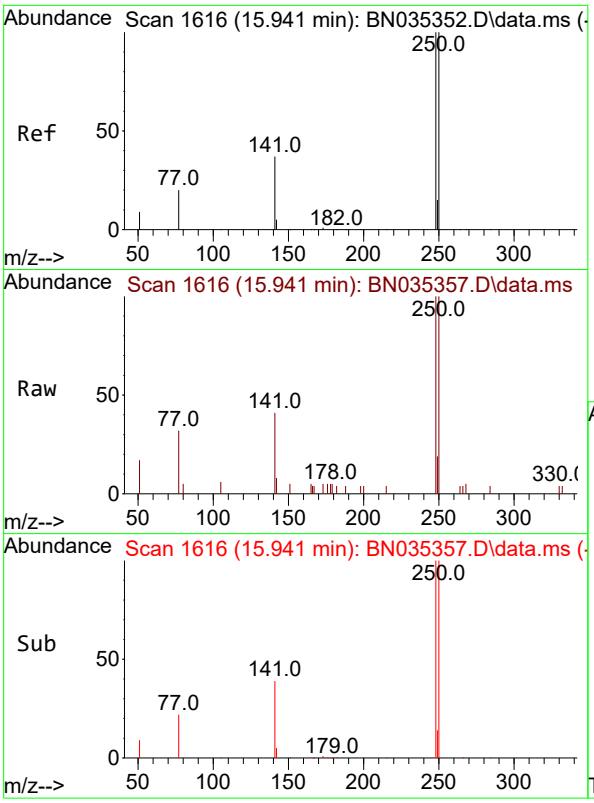


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9



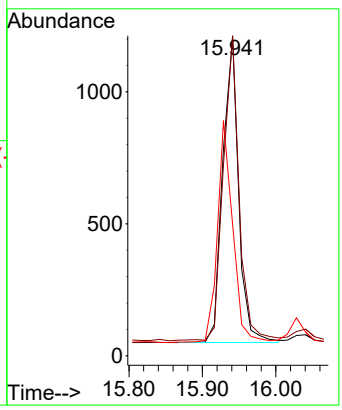


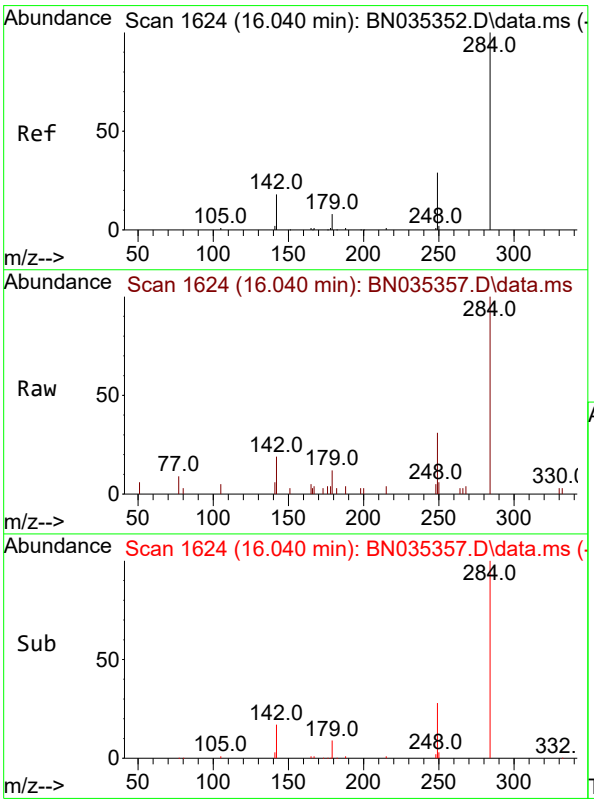
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 1742

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

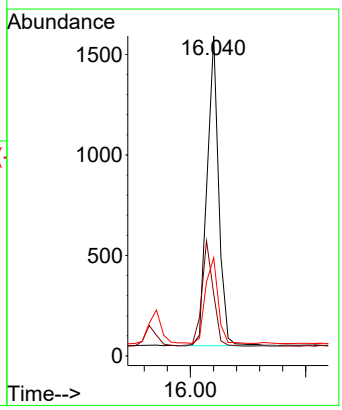


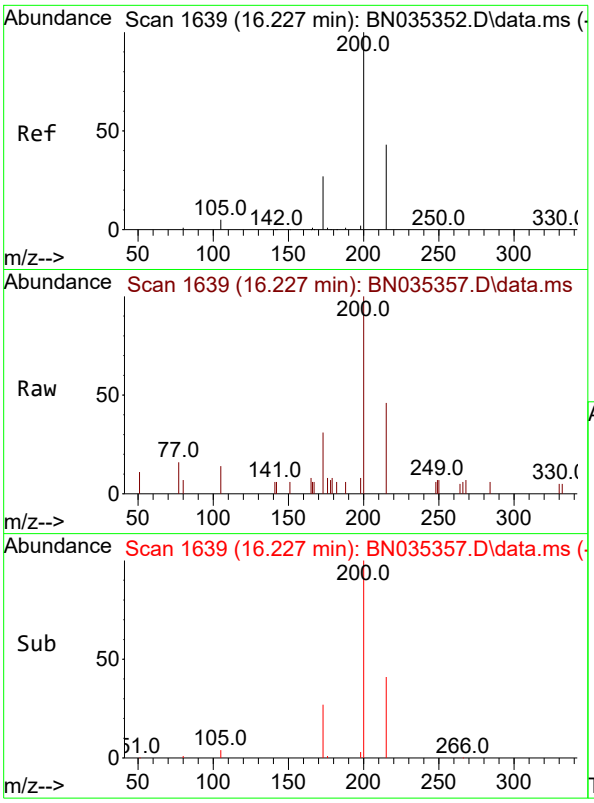


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8



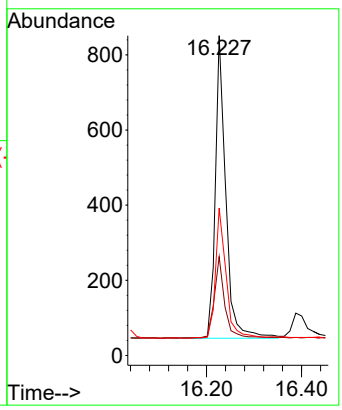


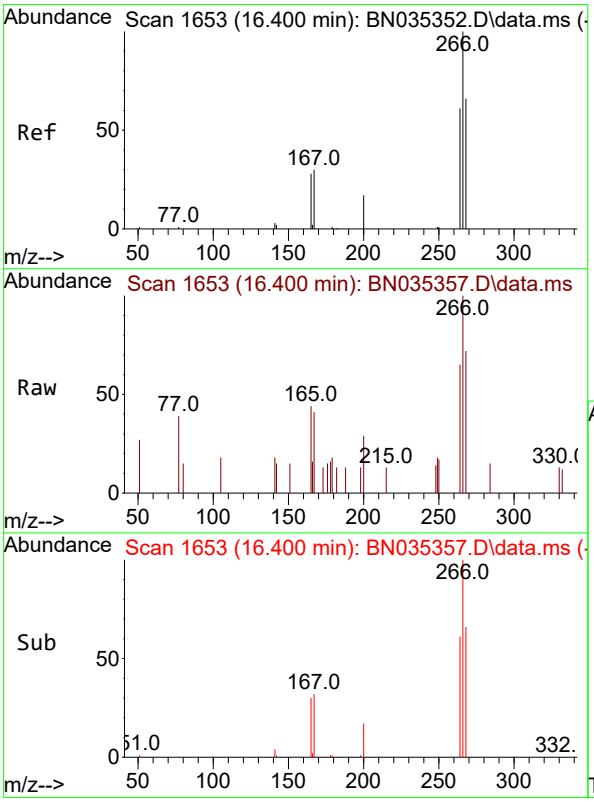
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

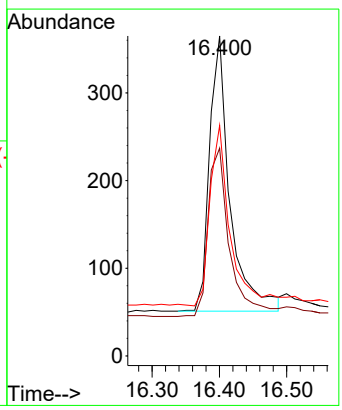


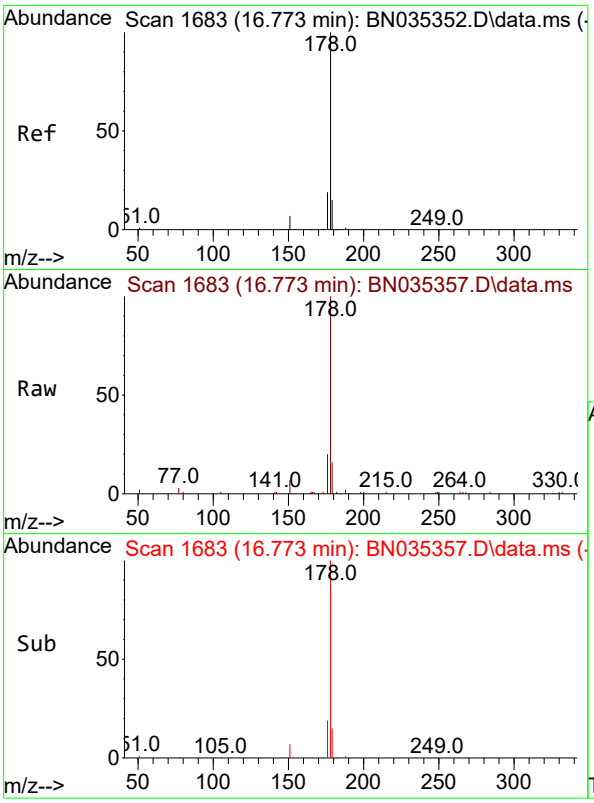


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#



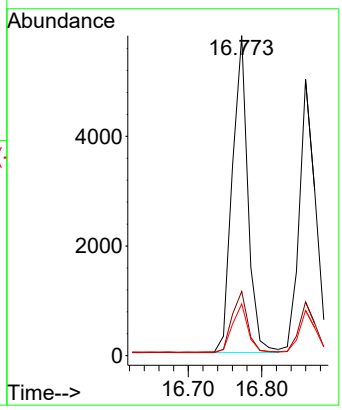


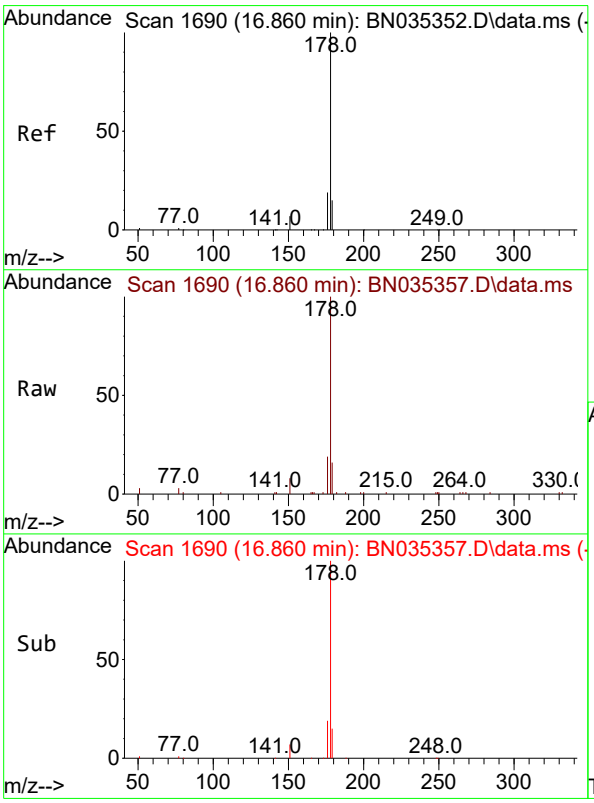
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:178 Resp: 8509

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5

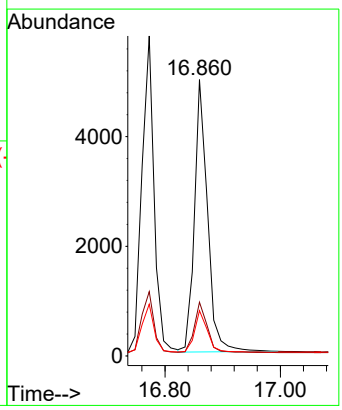


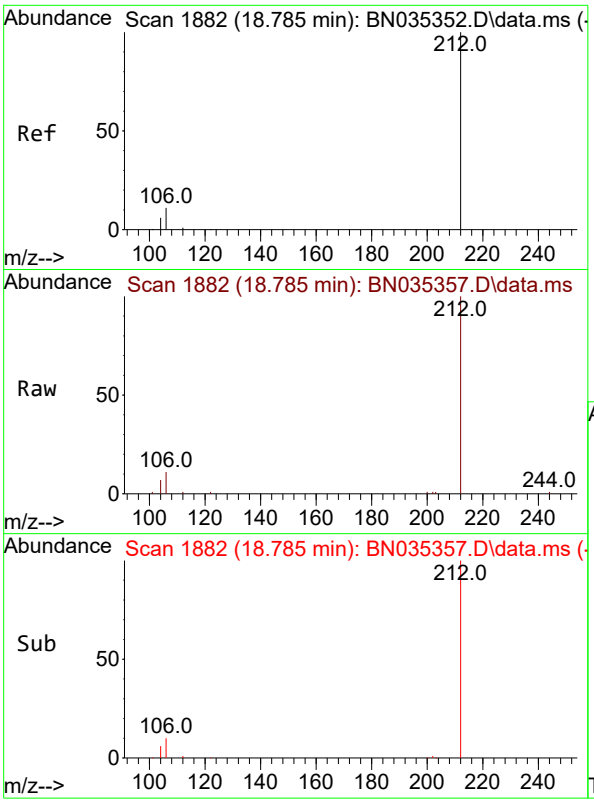


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



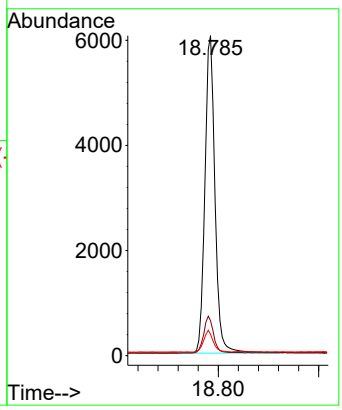


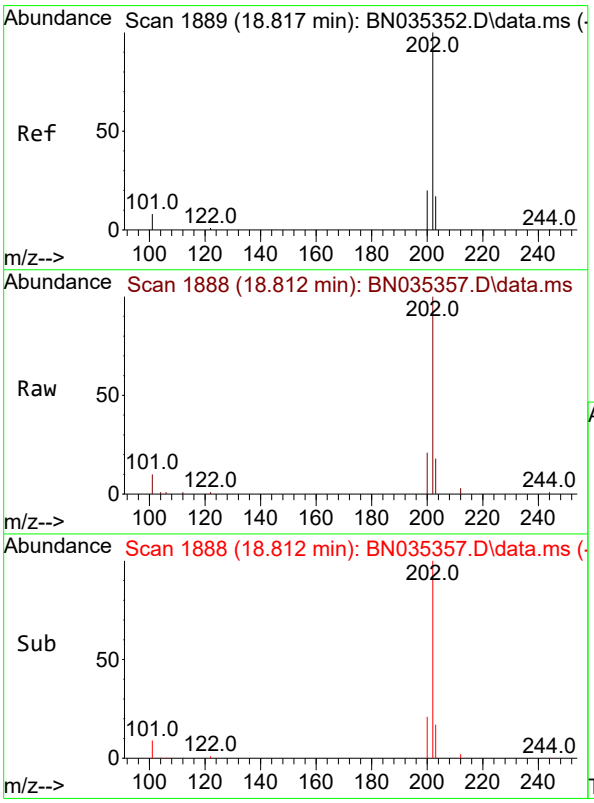
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 8415

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

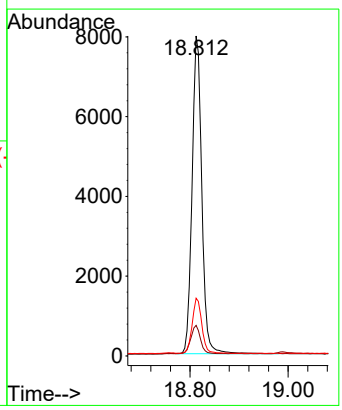


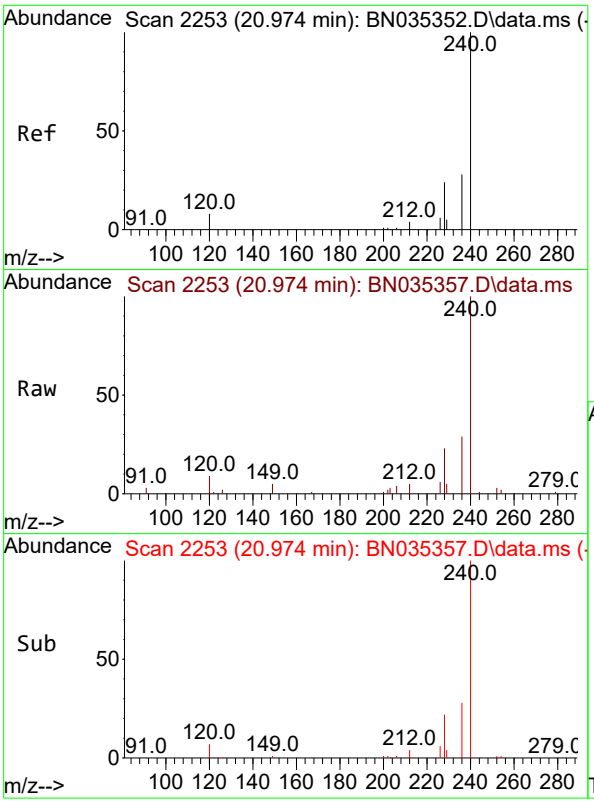


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



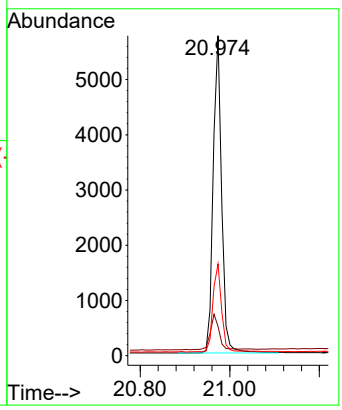


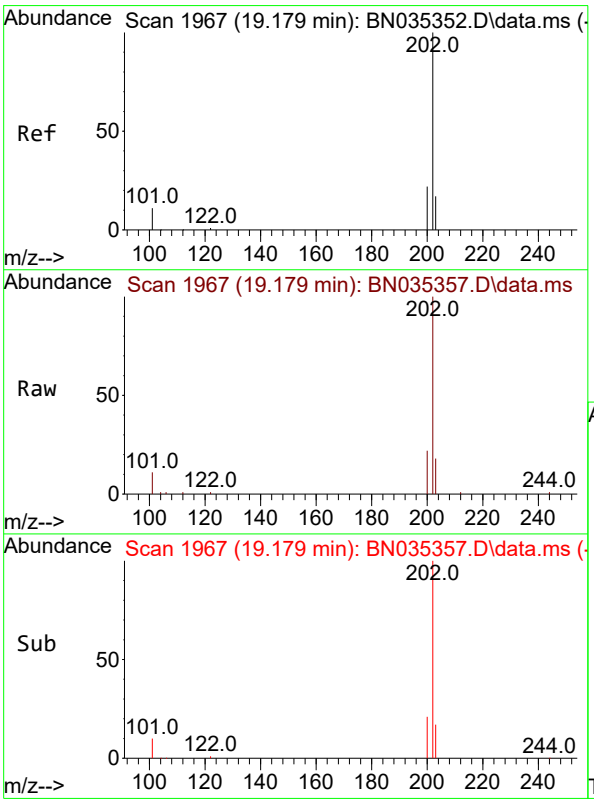
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

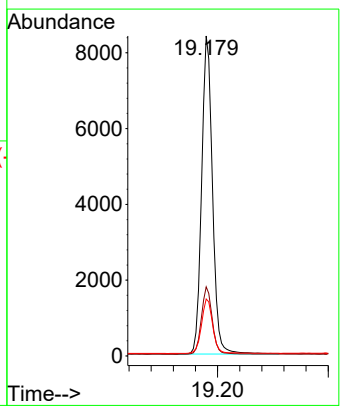


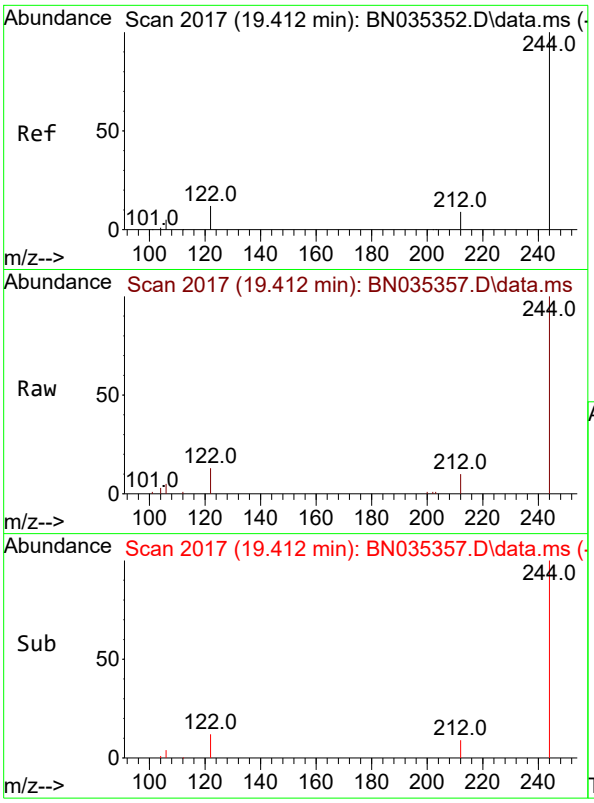


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



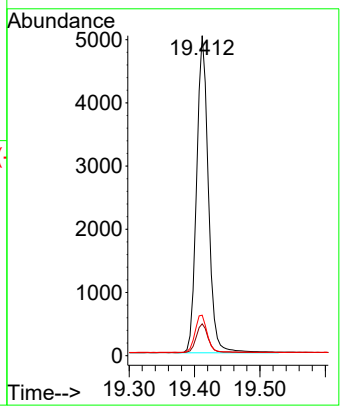


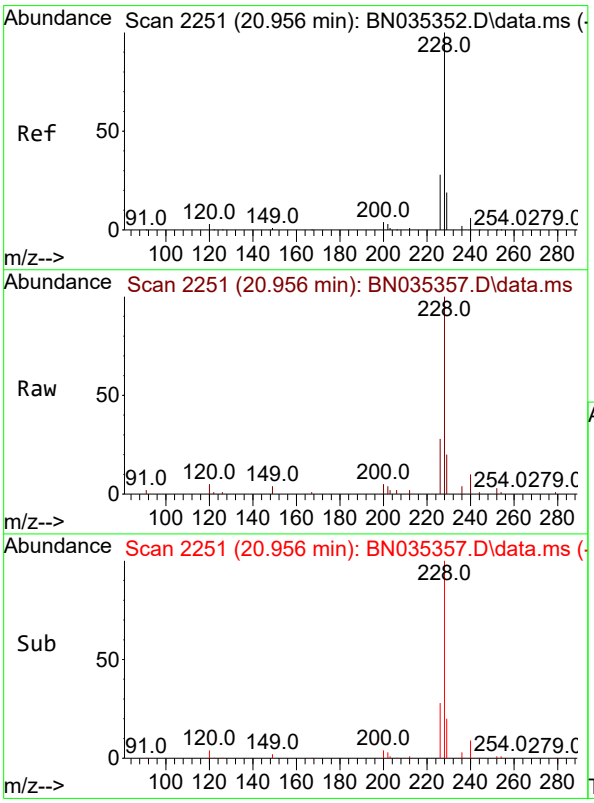
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:244 Resp: 6272

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

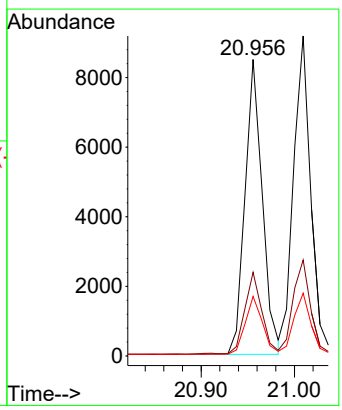


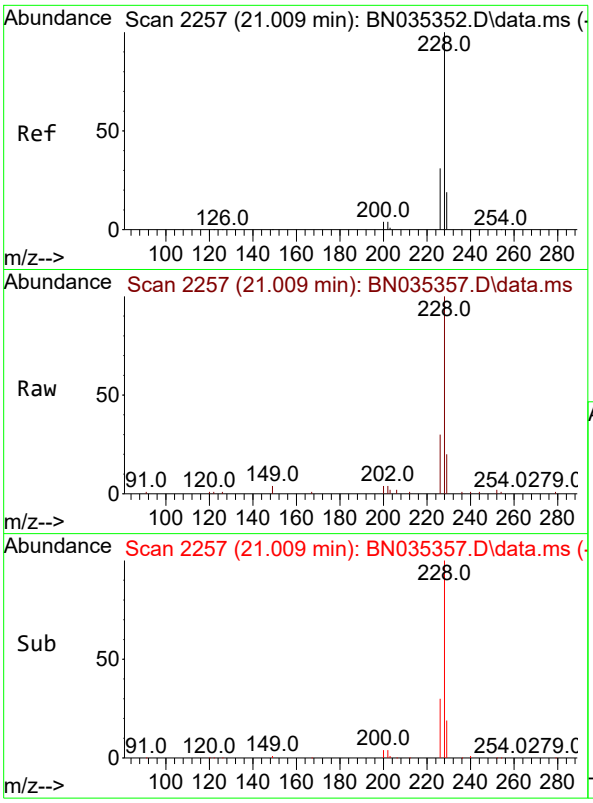


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8



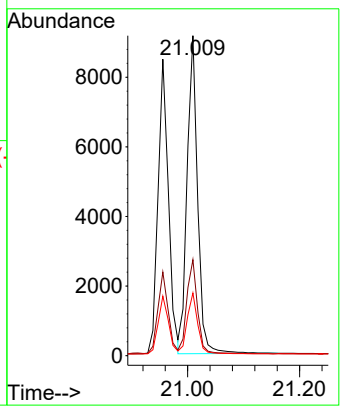


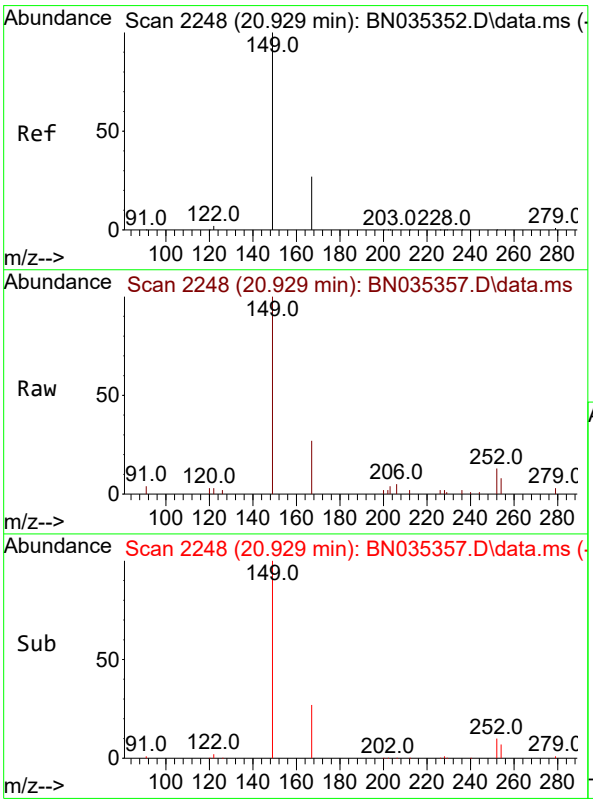
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:228 Resp: 11926

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

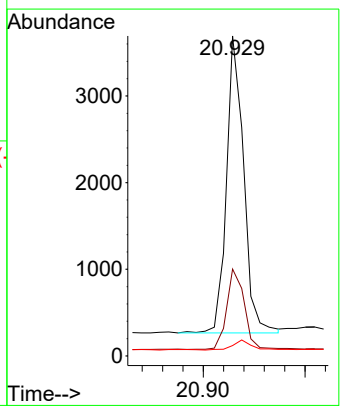


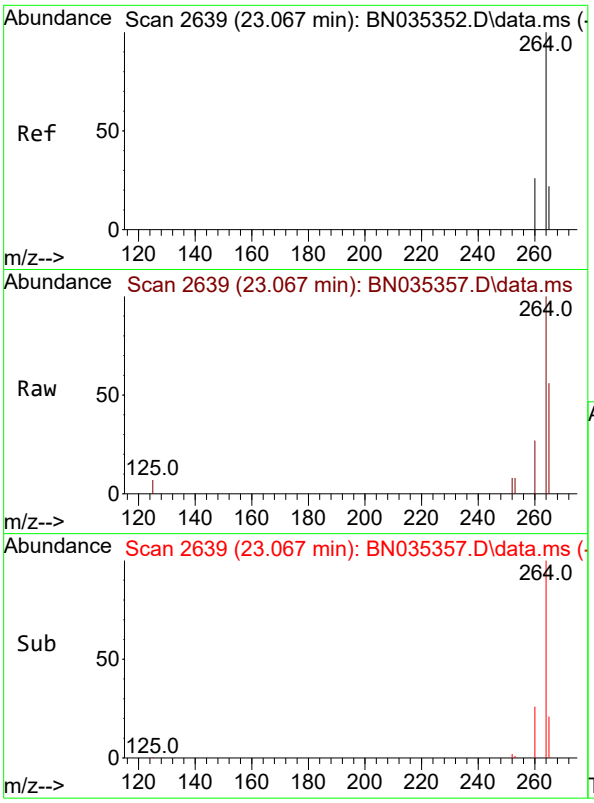


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



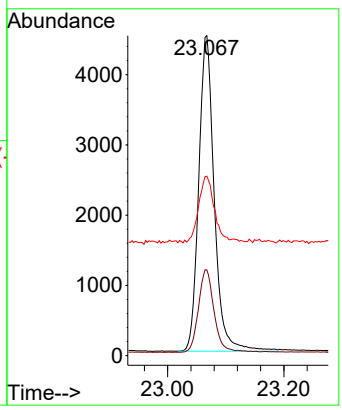


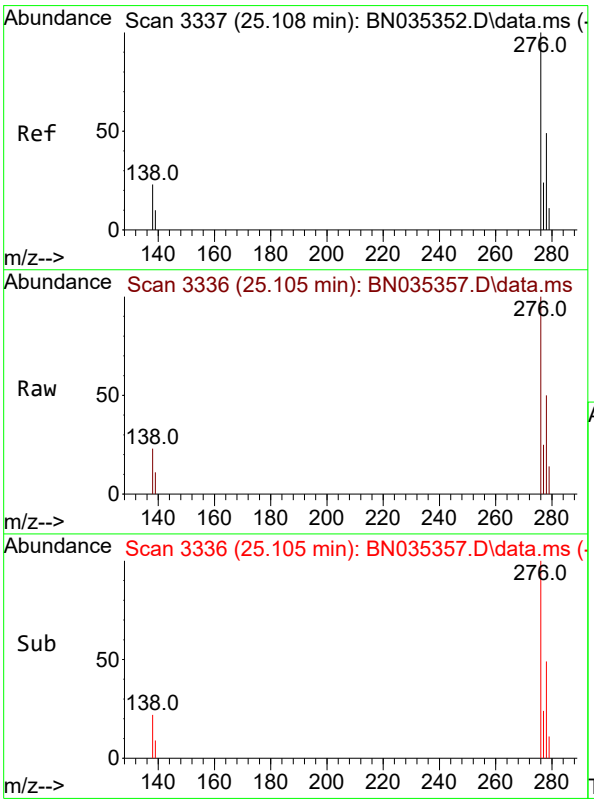
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

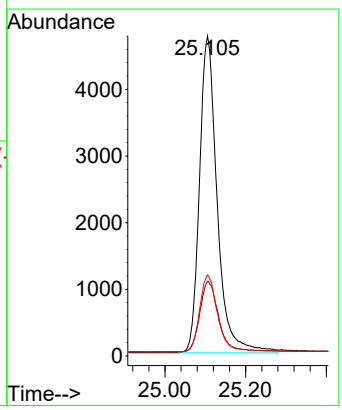


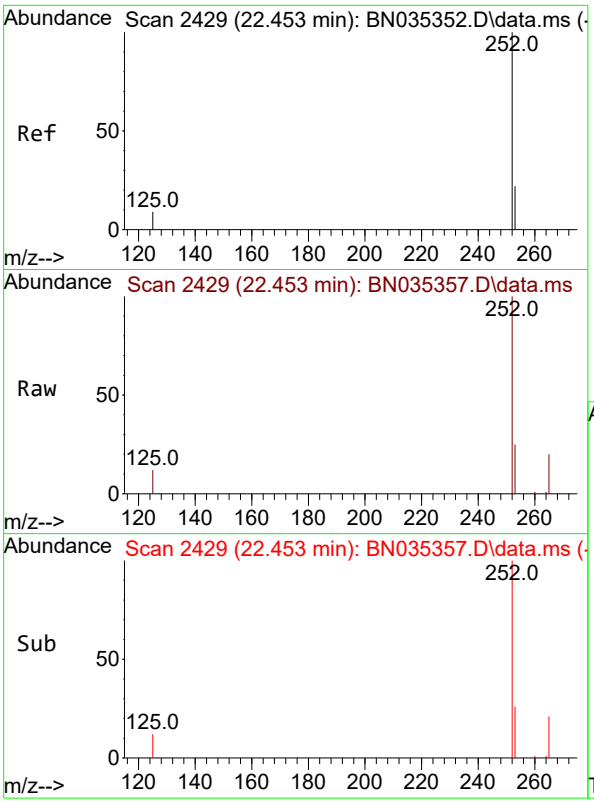


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



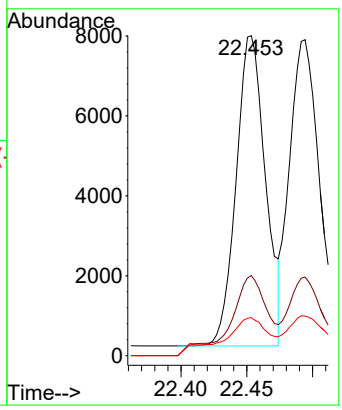


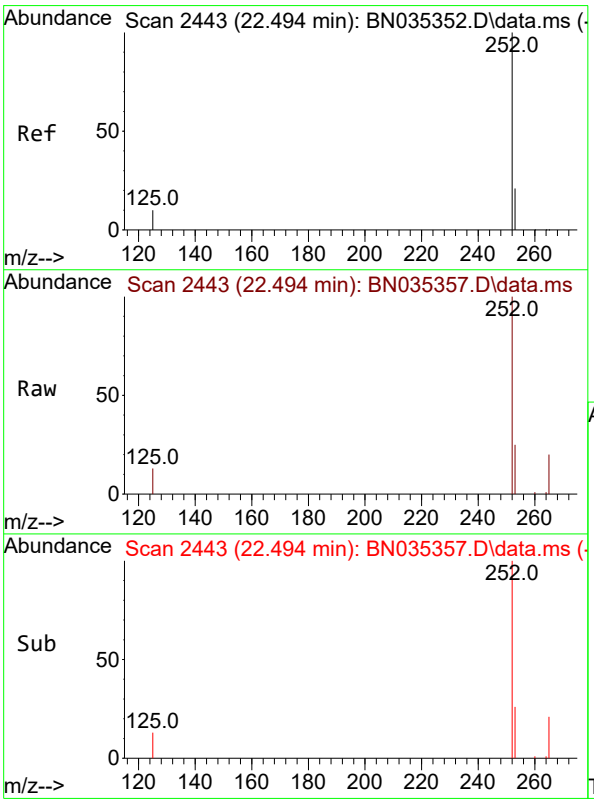
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 12988

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

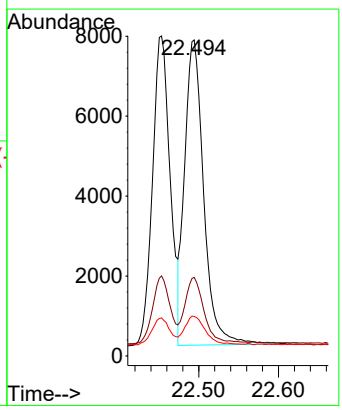


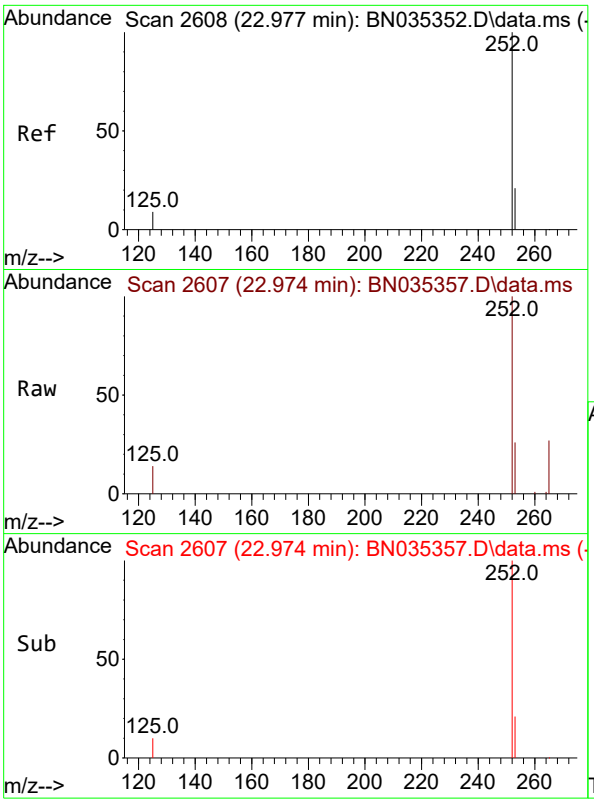


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4



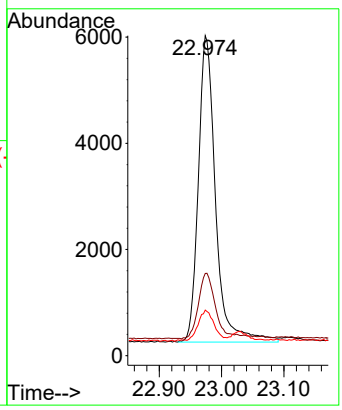


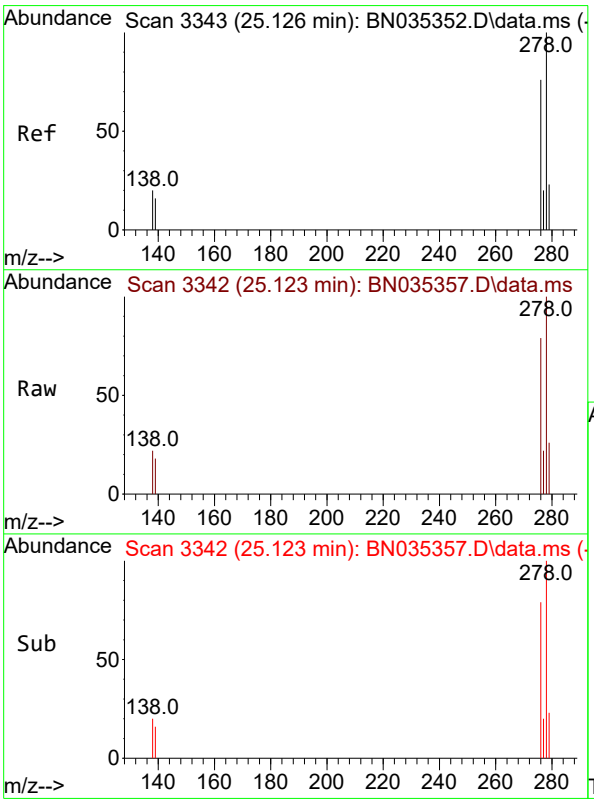
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 11094

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

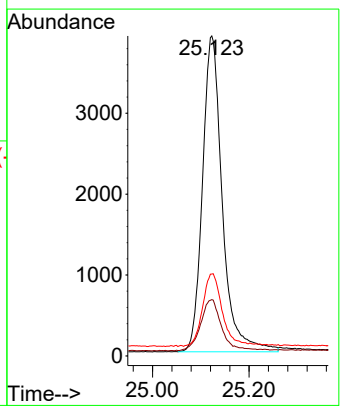


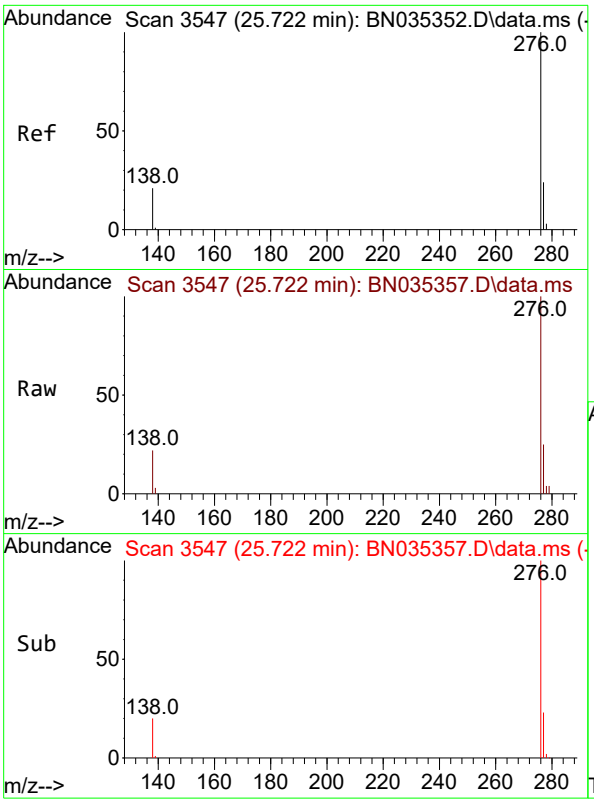


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



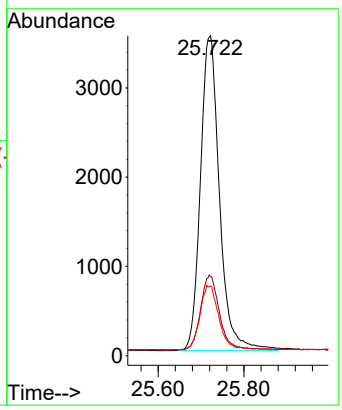


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:276 Resp: 10870

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

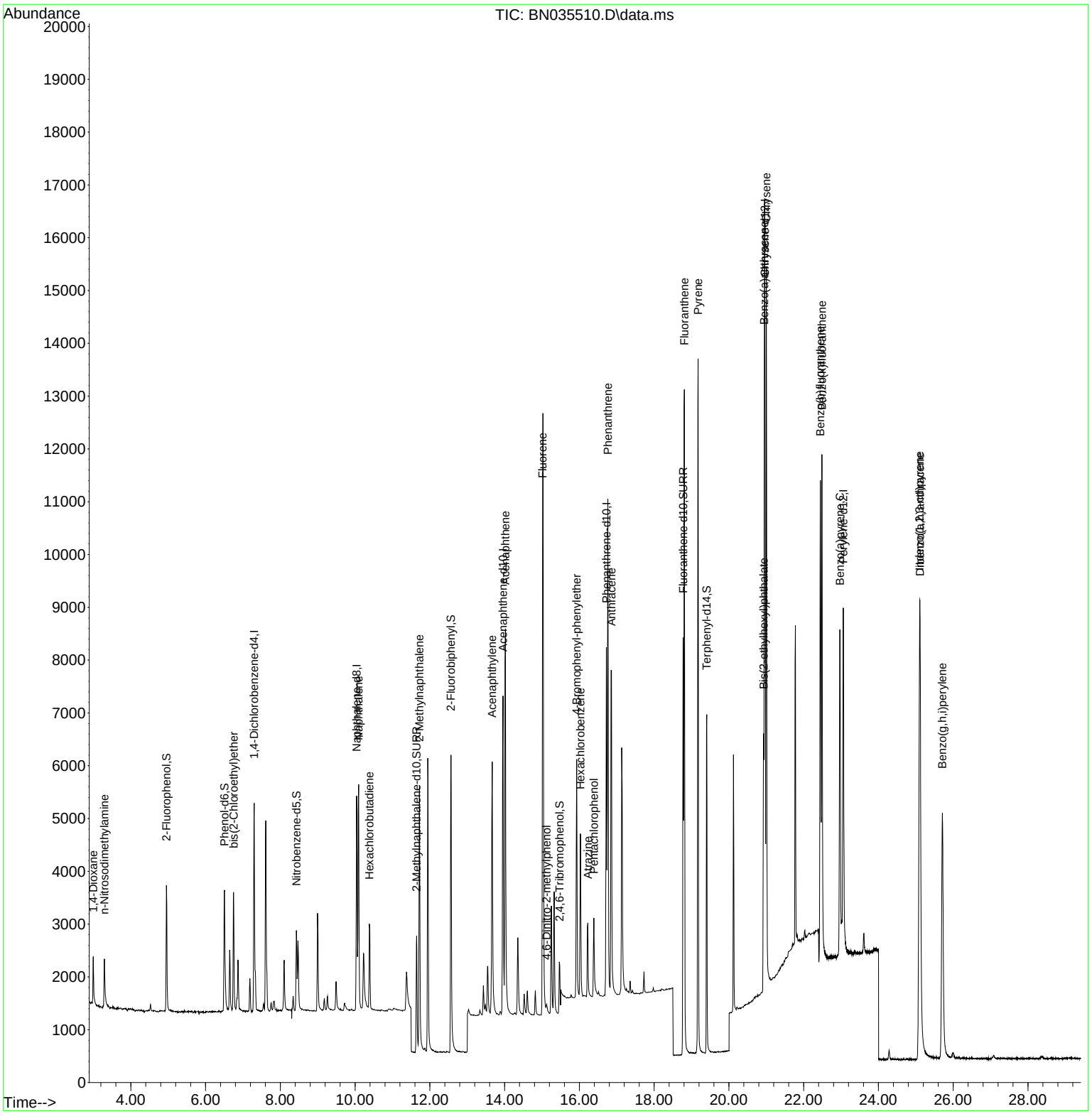
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.300	152	1975	0.400	ng		0.00
7) Naphthalene-d8	10.041	136	5582	0.400	ng		#-0.01
13) Acenaphthene-d10	13.956	164	4021	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	9077	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	8166	0.400	ng		0.00
35) Perylene-d12	23.059	264	8385	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	2063	0.417	ng		-0.01
5) Phenol-d6	6.506	99	2615	0.440	ng		0.00
8) Nitrobenzene-d5	8.429	82	1610	0.472	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3499	0.401	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	1103	0.386	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	6086	0.400	ng		-0.01
27) Fluoranthene-d10	18.775	212	9358	0.364	ng		0.00
31) Terphenyl-d14	19.407	244	6666	0.414	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	717	0.380	ng		98
3) n-Nitrosodimethylamine	3.292	42	635	0.404	ng	#	98
6) bis(2-Chloroethyl)ether	6.752	93	1927	0.386	ng		98
9) Naphthalene	10.095	128	5725	0.389	ng		99
10) Hexachlorobutadiene	10.383	225	1406	0.414	ng	#	100
12) 2-Methylnaphthalene	11.722	142	4137	0.392	ng		99
16) Acenaphthylene	13.668	152	6383	0.378	ng		100
17) Acenaphthene	14.021	154	4360	0.389	ng		99
18) Fluorene	15.015	166	6050	0.377	ng		100
20) 4,6-Dinitro-2-methylph...	15.122	198	175	0.196	ng	#	56
21) 4-Bromophenyl-phenylether	15.929	248	2075	0.391	ng	#	90
22) Hexachlorobenzene	16.028	284	2587	0.415	ng		99
23) Atrazine	16.227	200	1463	0.387	ng		94
24) Pentachlorophenol	16.388	266	925	0.341	ng		86
25) Phenanthrene	16.760	178	9661	0.387	ng		100
26) Anthracene	16.860	178	8433	0.374	ng		100
28) Fluoranthene	18.808	202	12158	0.362	ng		99
30) Pyrene	19.175	202	12397	0.411	ng		100
32) Benzo(a)anthracene	20.947	228	10365	0.363	ng		99
33) Chrysene	21.000	228	11620	0.394	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4418	0.392	ng		99
36) Indeno(1,2,3-cd)pyrene	25.102	276	12024	0.367	ng		97
37) Benzo(b)fluoranthene	22.447	252	13501	0.440	ng		98
38) Benzo(k)fluoranthene	22.488	252	11908	0.394	ng		99
39) Benzo(a)pyrene	22.968	252	9314	0.369	ng		97
40) Dibenzo(a,h)anthracene	25.114	278	9233	0.357	ng		97
41) Benzo(g,h,i)perylene	25.710	276	9987	0.369	ng		97

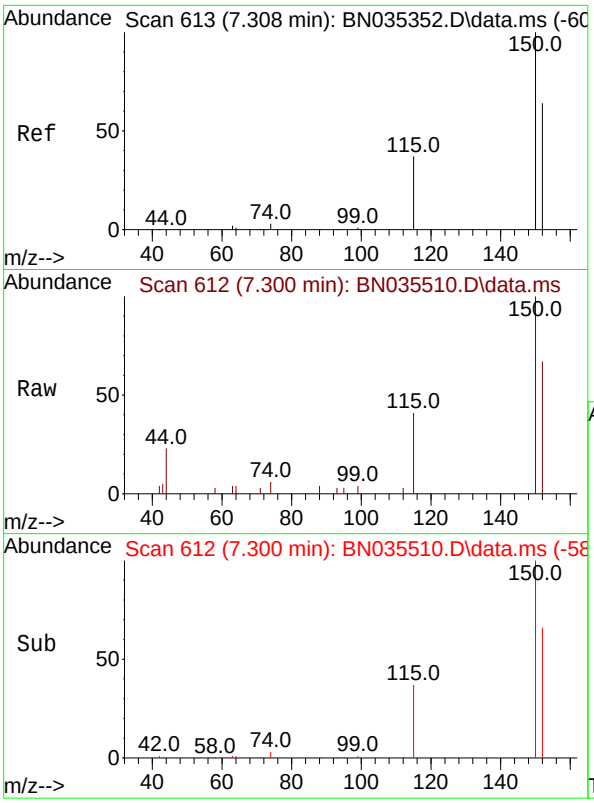
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035510.D
Acq On : 09 Dec 2024 17:07
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 09 17:33:24 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



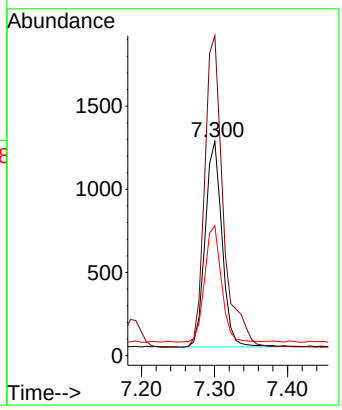


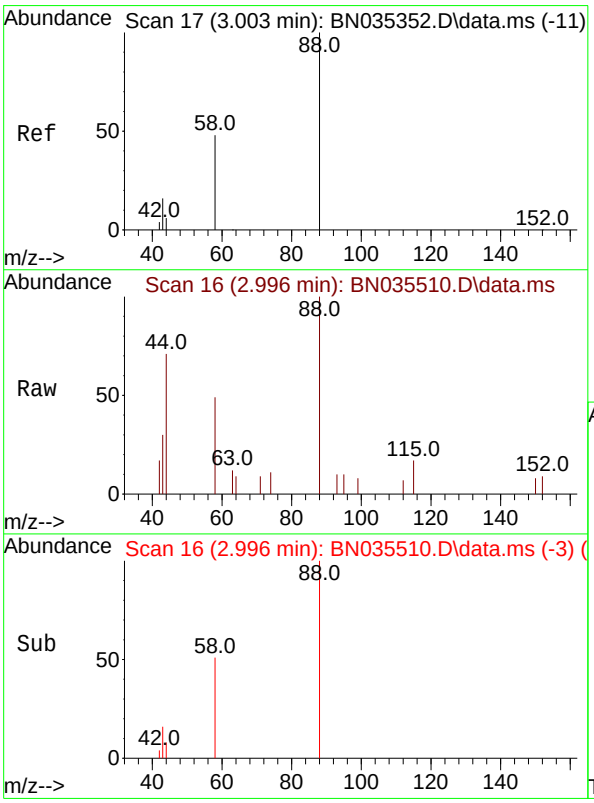
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1975

Ion	Ratio	Lower	Upper
152	100		
150	149.4	124.0	186.0
115	60.6	49.6	74.4

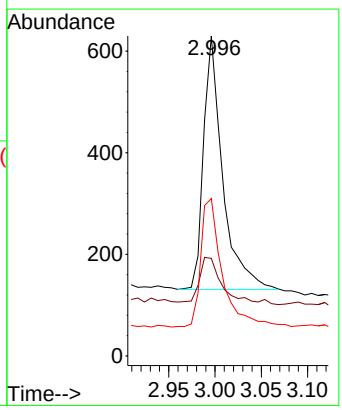


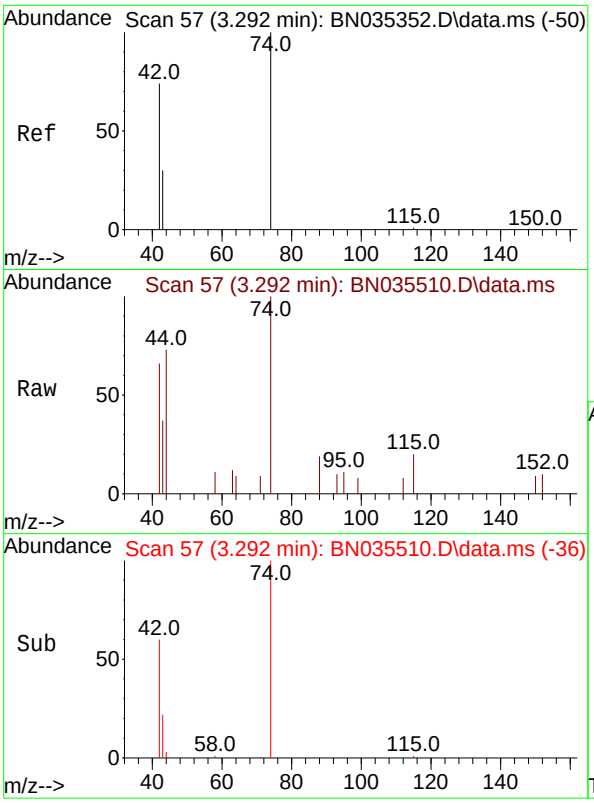


#2
1,4-Dioxane
Concen: 0.380 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 88 Resp: 717

Ion	Ratio	Lower	Upper
88	100		
43	23.3	17.2	25.8
58	56.8	44.5	66.7



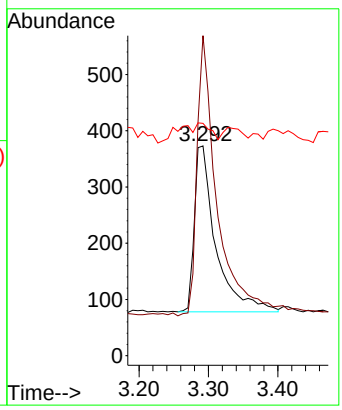


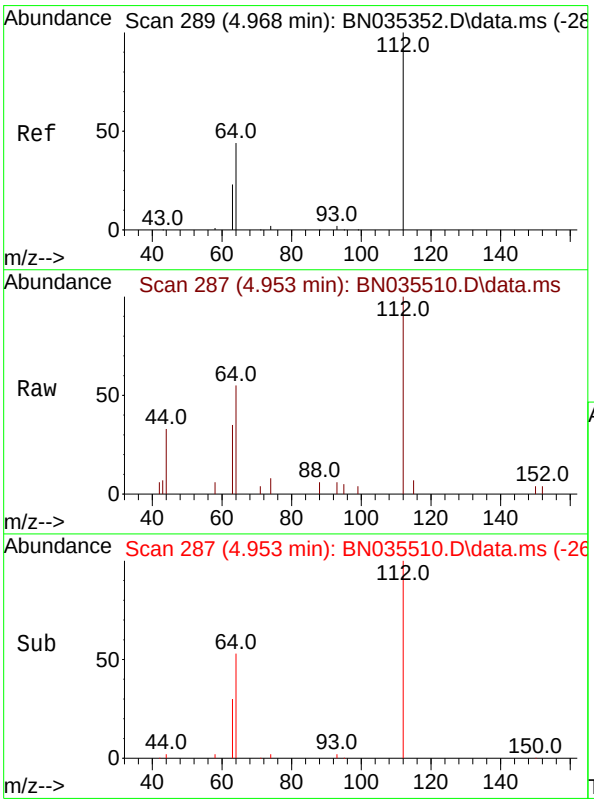
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 635

Ion	Ratio	Lower	Upper
42	100		
74	159.1	124.9	187.3
44	6.5	2.2	3.4#

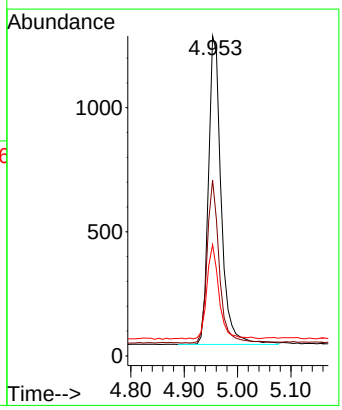


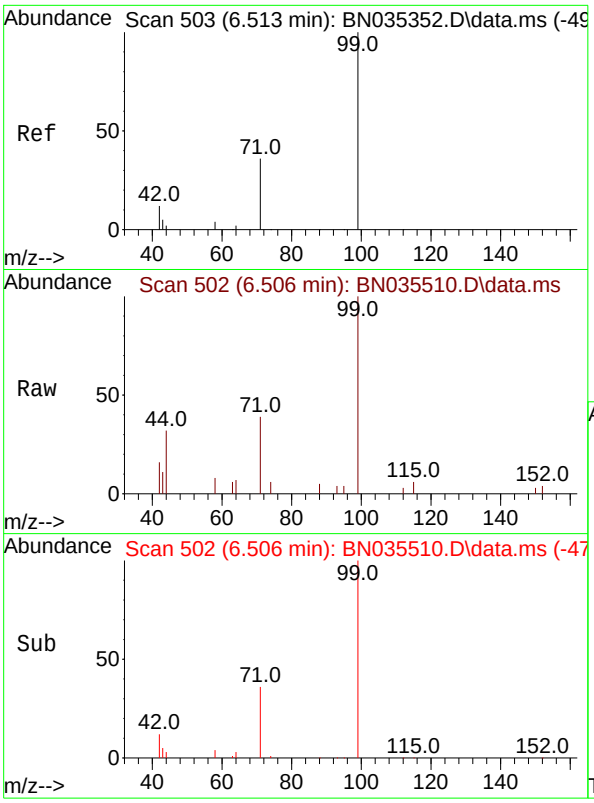


#4
2-Fluorophenol
Concen: 0.417 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.015 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:112 Resp: 2063

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	28.9	21.0	31.6



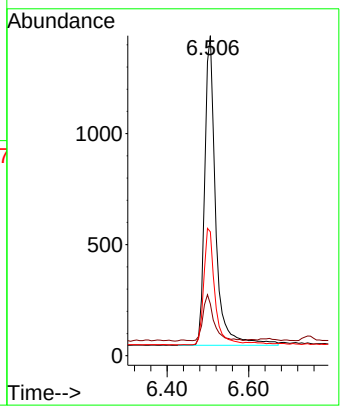


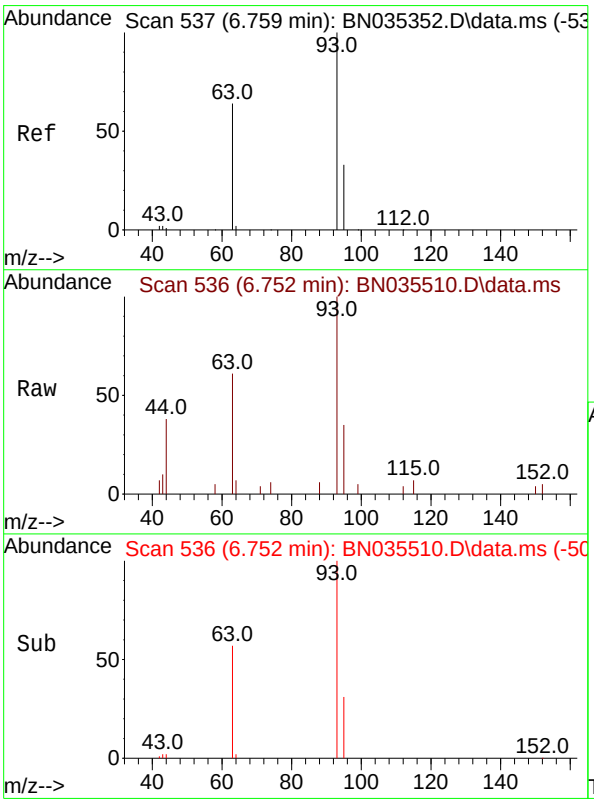
#5
Phenol-d6
Concen: 0.440 ng
RT: 6.506 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2615

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.6	29.3	43.9

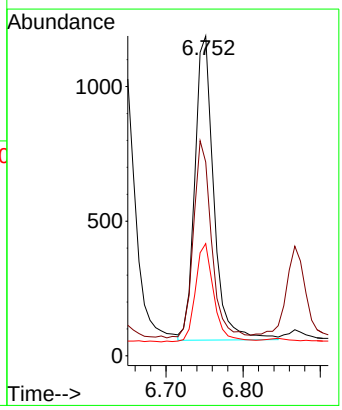


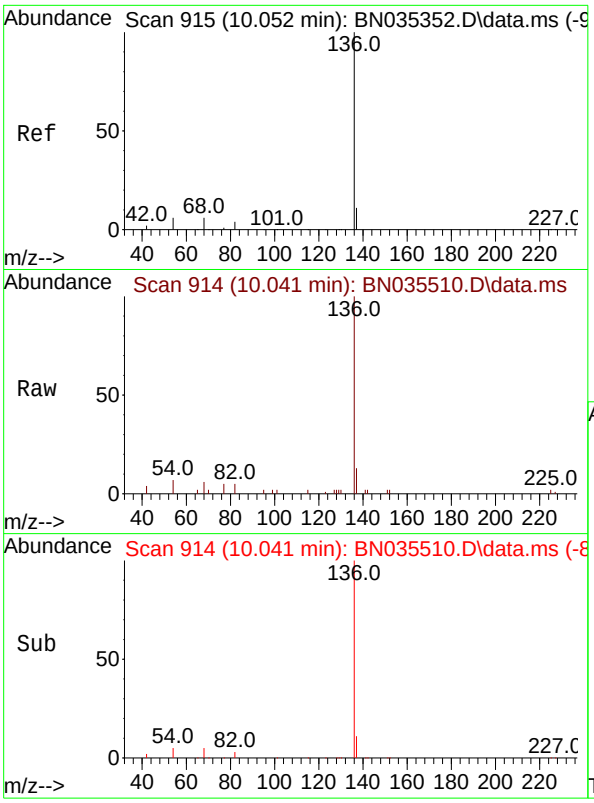


#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 93 Resp: 1927

Ion	Ratio	Lower	Upper
93	100		
63	61.7	50.4	75.6
95	31.4	25.7	38.5



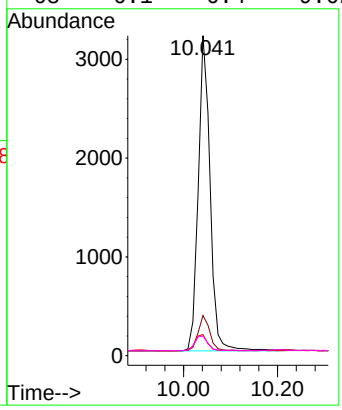


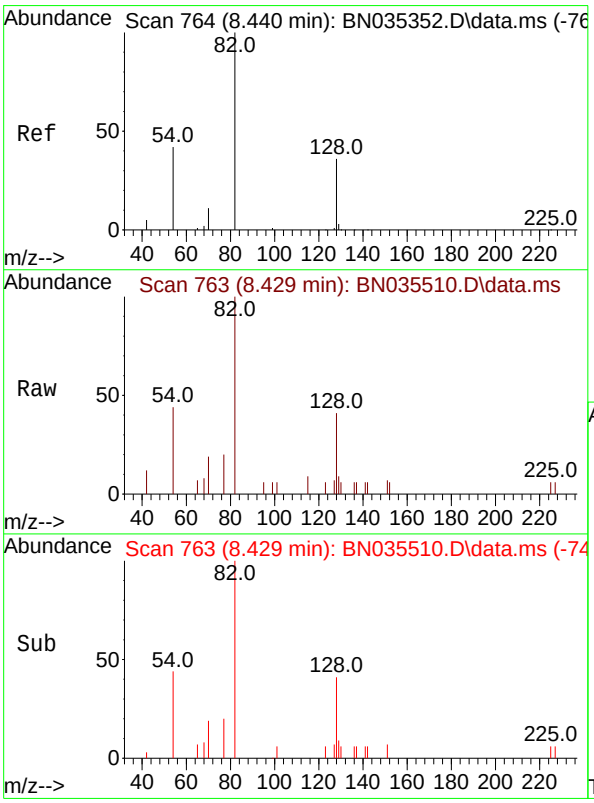
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5582

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.1	6.4	9.6#

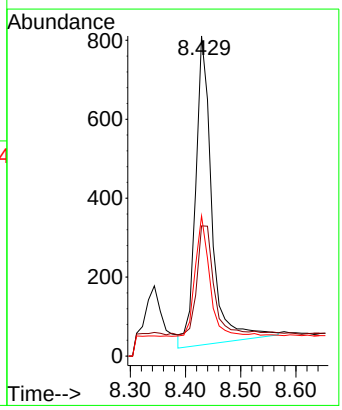


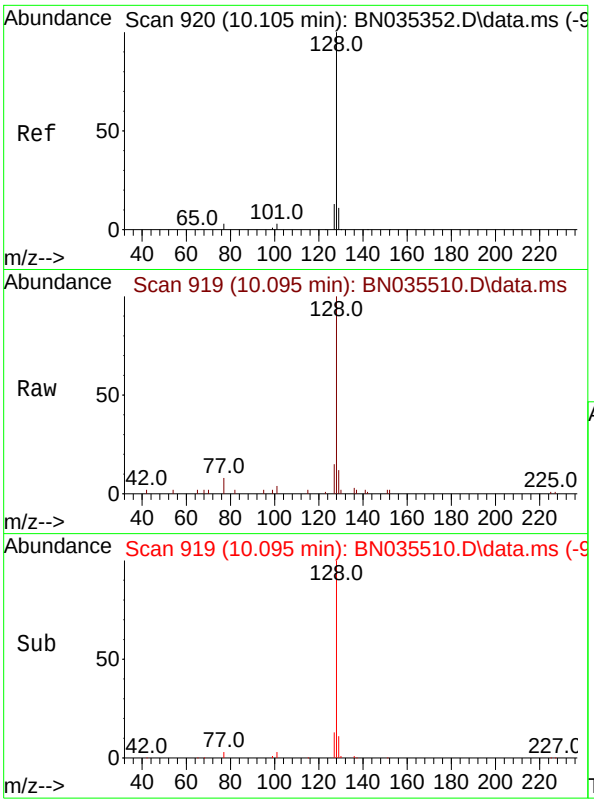


#8
Nitrobenzene-d5
Concen: 0.472 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion: 82 Resp: 1610

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.4	50.0
54	43.8	36.7	55.1



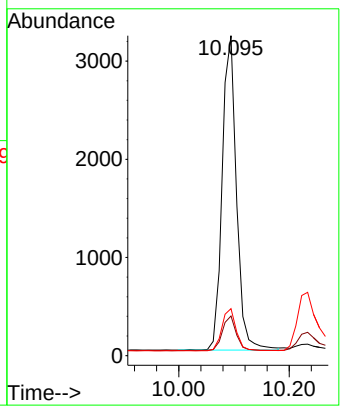


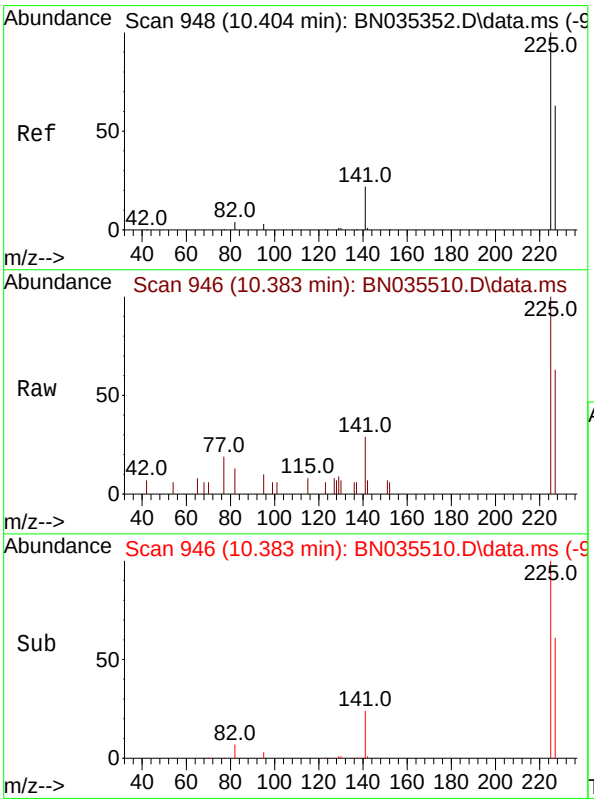
#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 5725

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.7	11.4	17.2

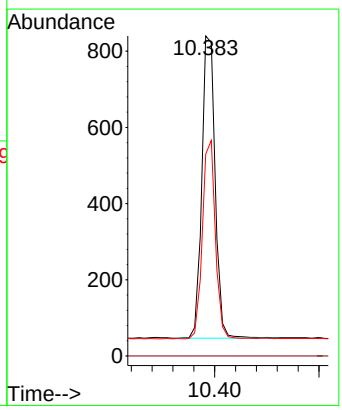


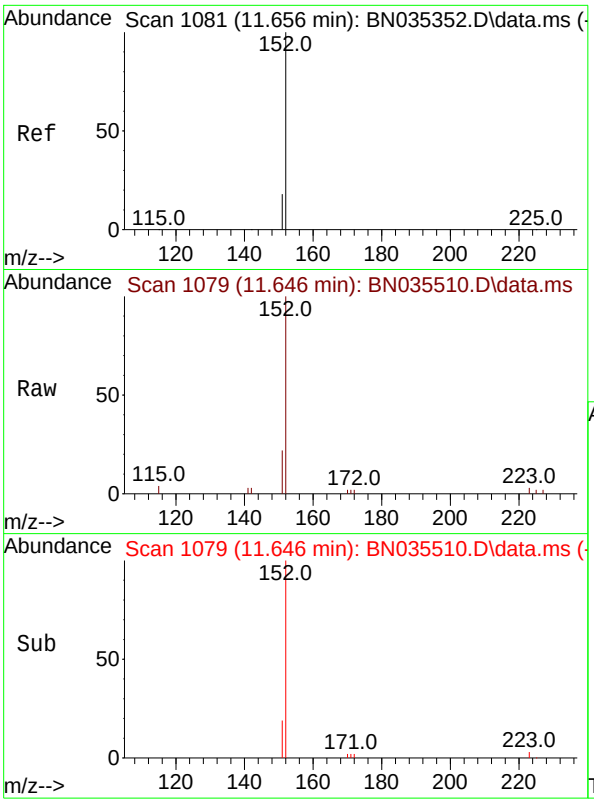


#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:225 Resp: 1406

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



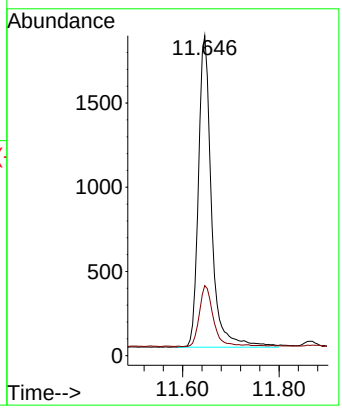


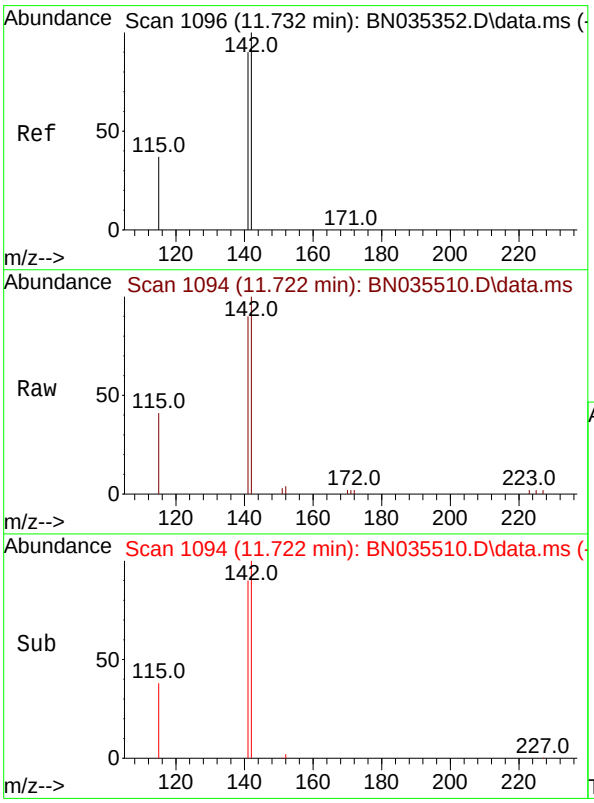
#11
2-Methylnaphthalene-d10
Concen: 0.401 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3499

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

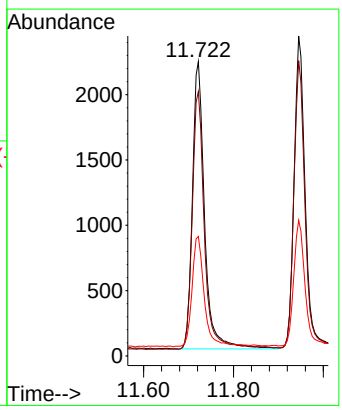


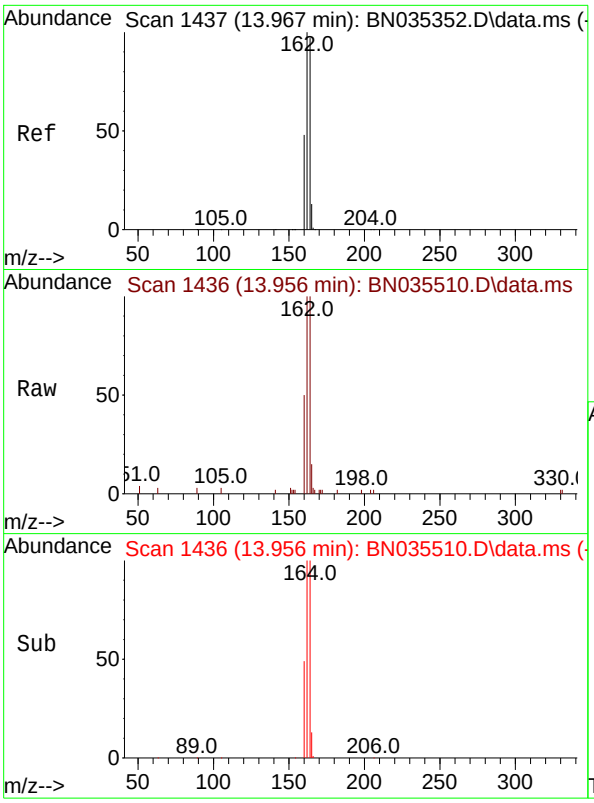


#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:142 Resp: 4137

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.6	31.4	47.0



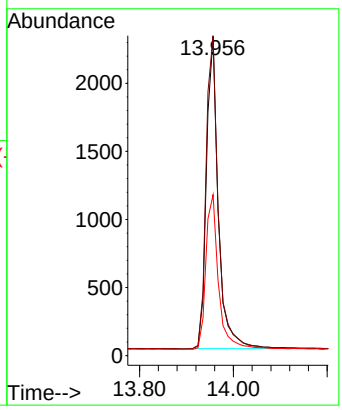


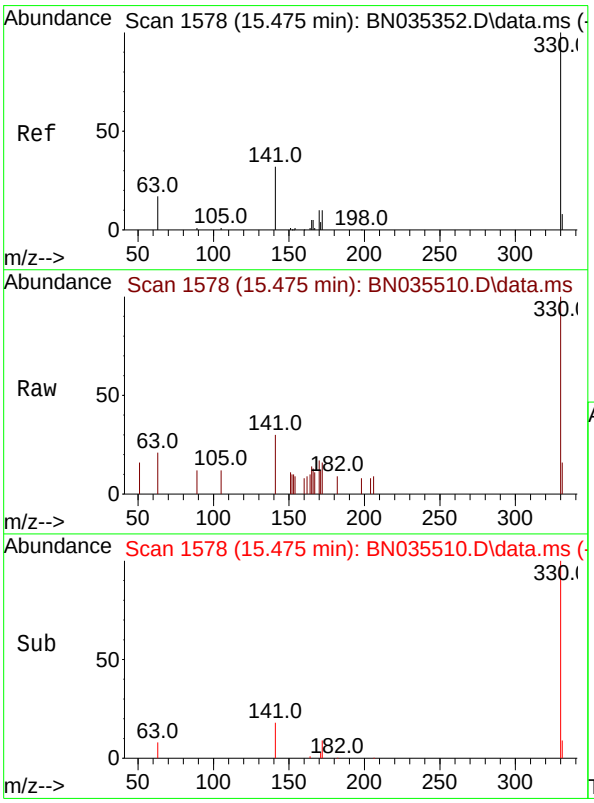
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4021

Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.2	123.2
160	50.5	40.1	60.1

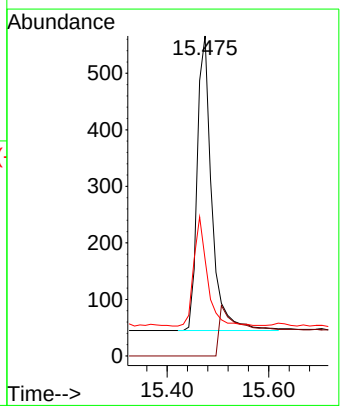


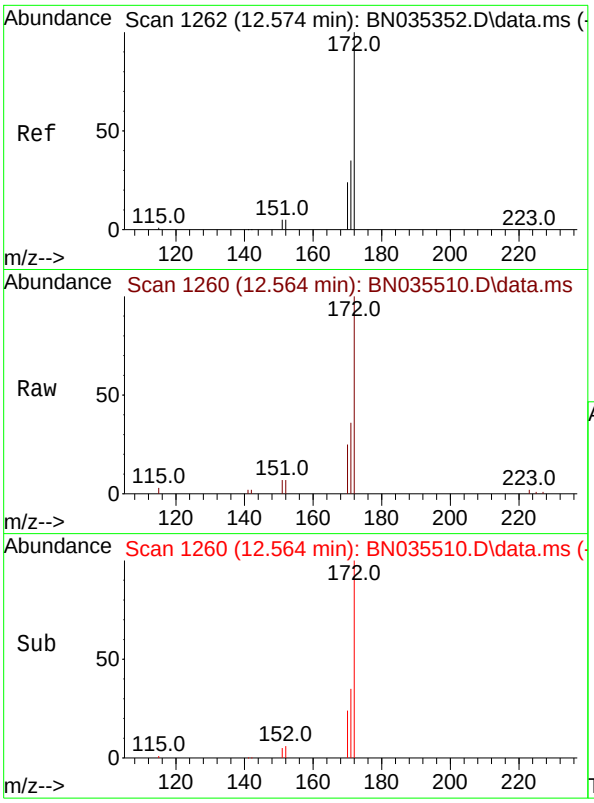


#14
2,4,6-Tribromophenol
Concen: 0.386 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:330 Resp: 1103

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.3	26.6	40.0



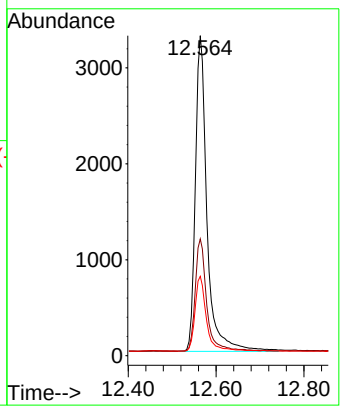


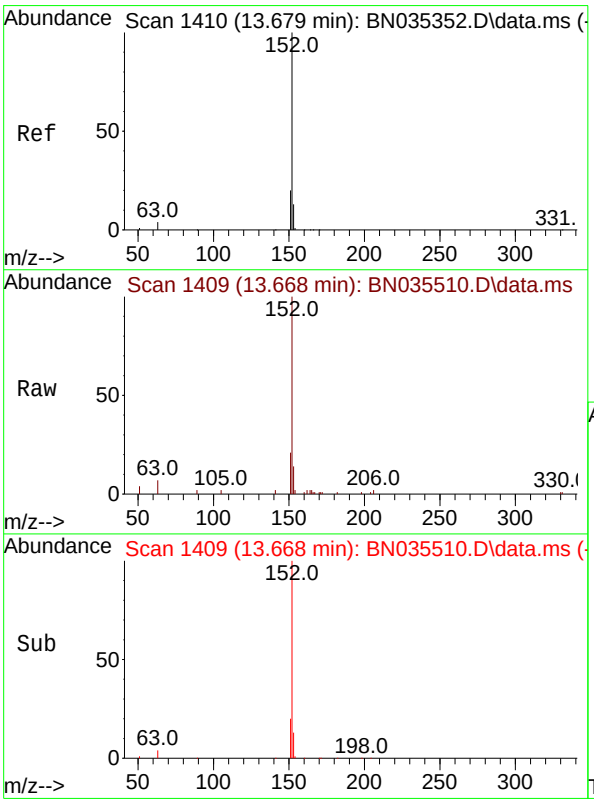
#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6086

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.8	19.8	29.8

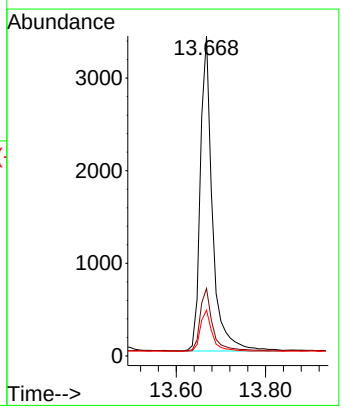


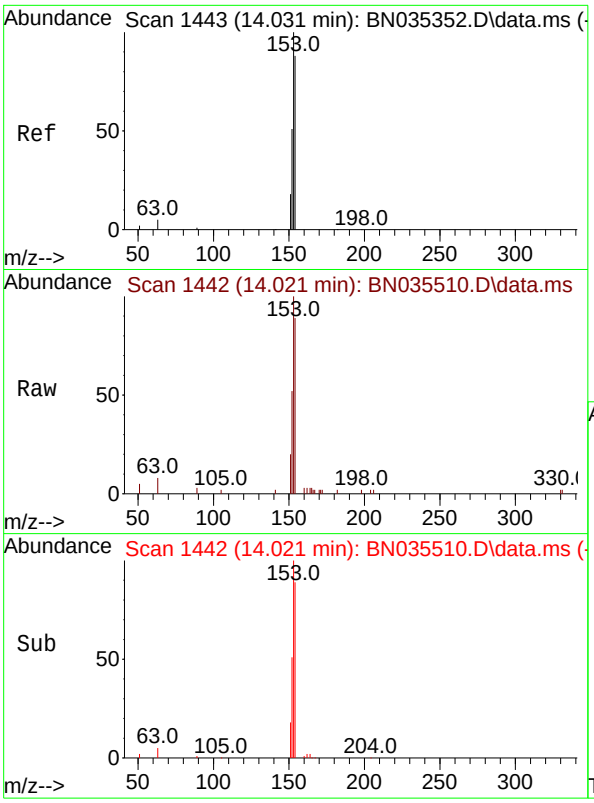


#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:152 Resp: 6383

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6



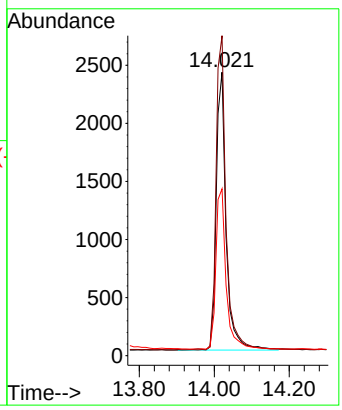


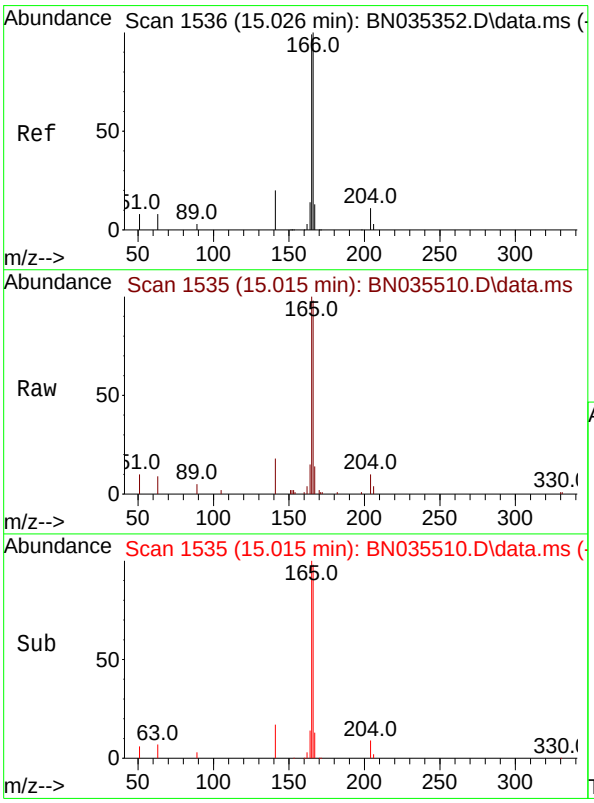
#17
Acenaphthene
Concen: 0.389 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4360

Ion	Ratio	Lower	Upper
154	100		
153	114.5	92.6	139.0
152	60.1	49.0	73.6

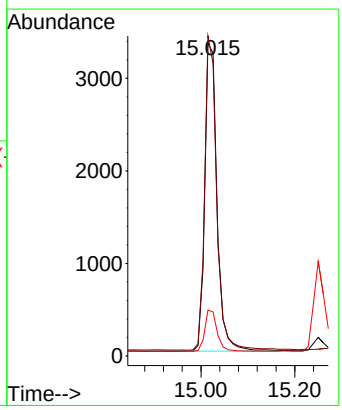


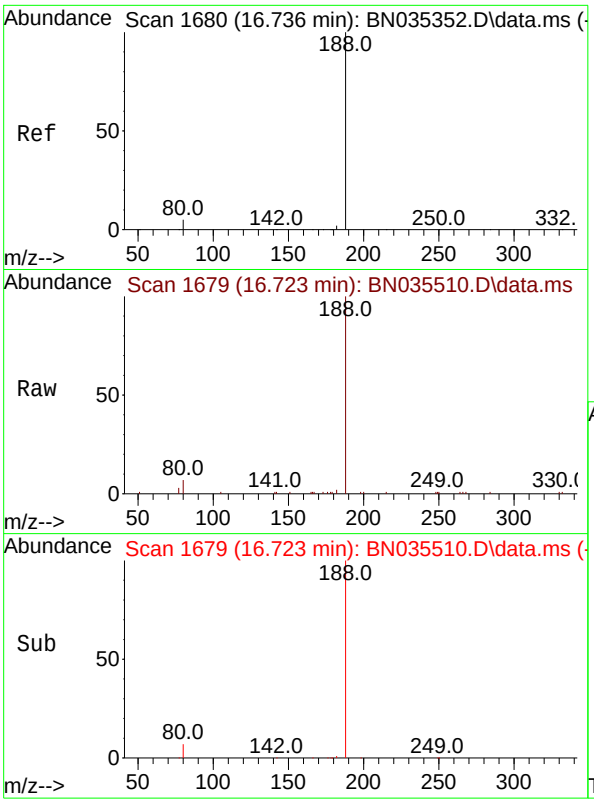


#18
Fluorene
Concen: 0.377 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:166 Resp: 6050

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.6	10.8	16.2



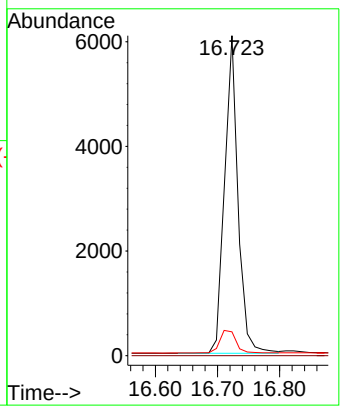


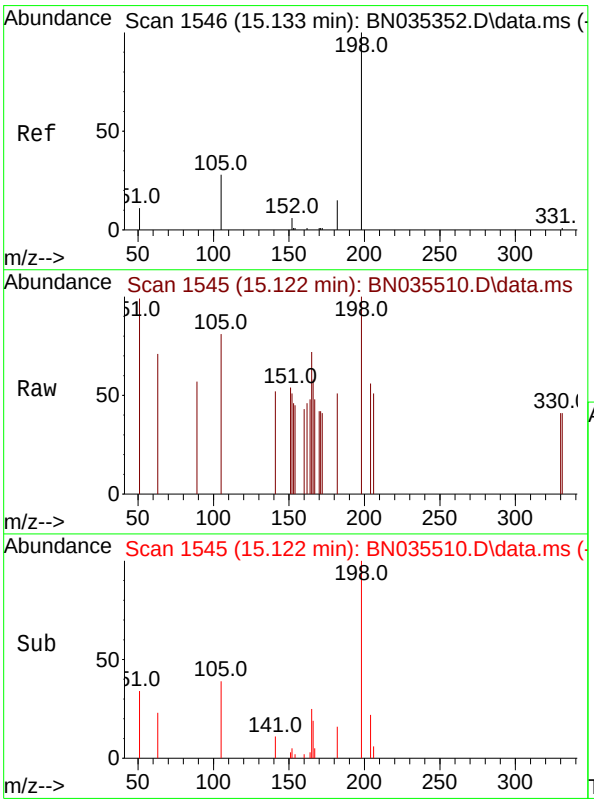
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 9077

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.6	6.8#

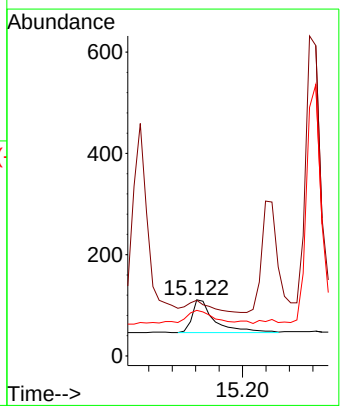


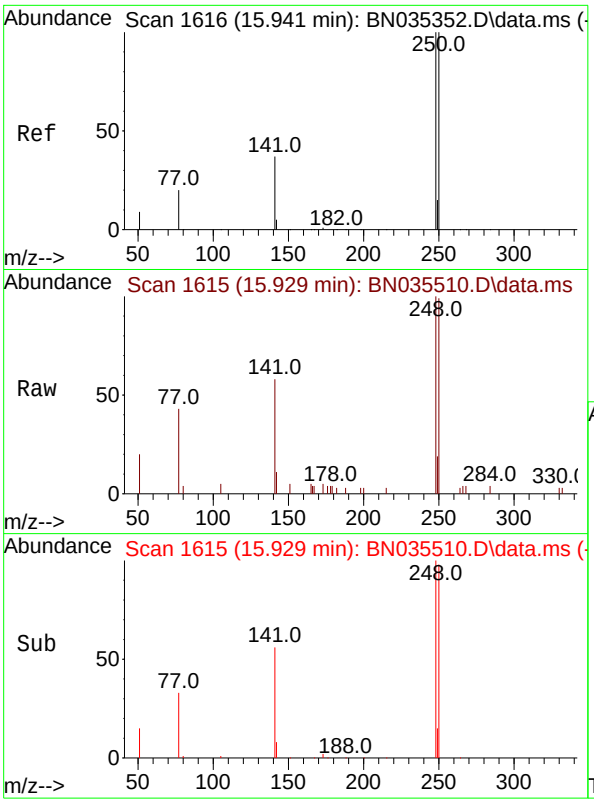


#20
4,6-Dinitro-2-methylphenol
Concen: 0.196 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:198 Resp: 175

Ion	Ratio	Lower	Upper
198	100		
51	99.1	46.5	69.7#
105	81.1	45.3	67.9#



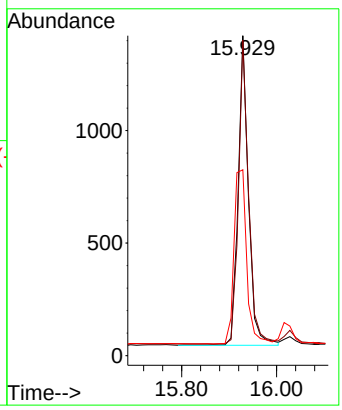


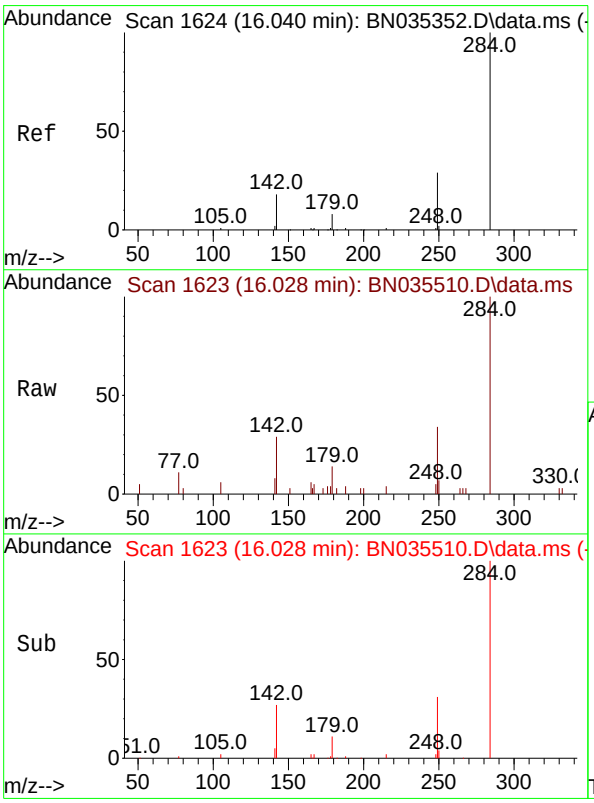
#21
4-Bromophenyl-phenylether
Concen: 0.391 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2075

Ion	Ratio	Lower	Upper
248	100		
250	98.6	80.6	120.8
141	58.1	31.5	47.3#

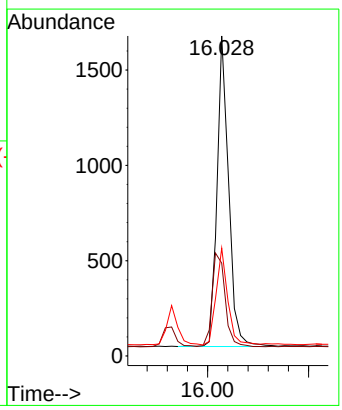


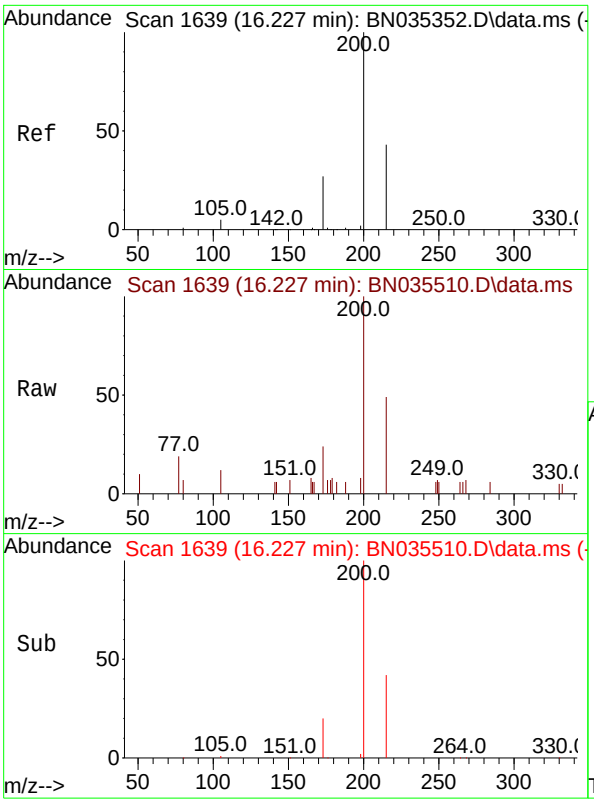


#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:284 Resp: 2587

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.7	40.1
249	31.2	24.6	36.8



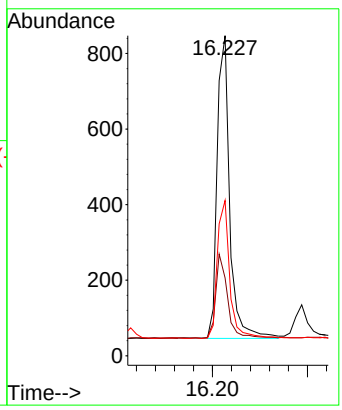


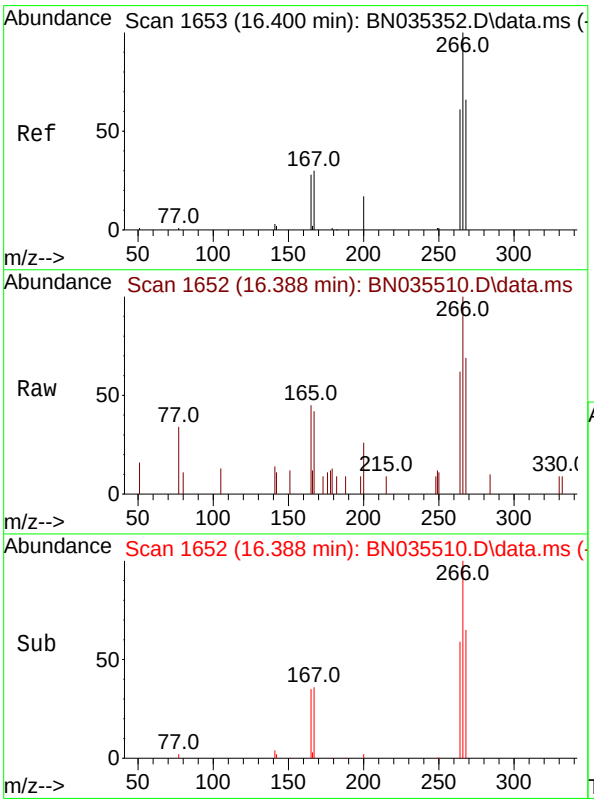
#23
Atrazine
Concen: 0.387 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1463

Ion	Ratio	Lower	Upper
200	100		
173	24.3	24.1	36.1
215	48.5	36.9	55.3

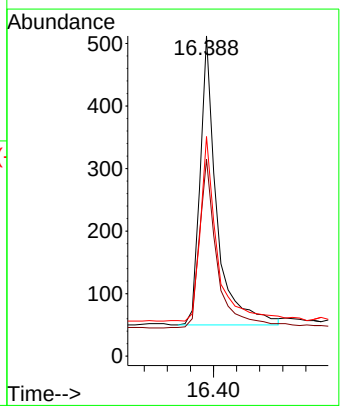


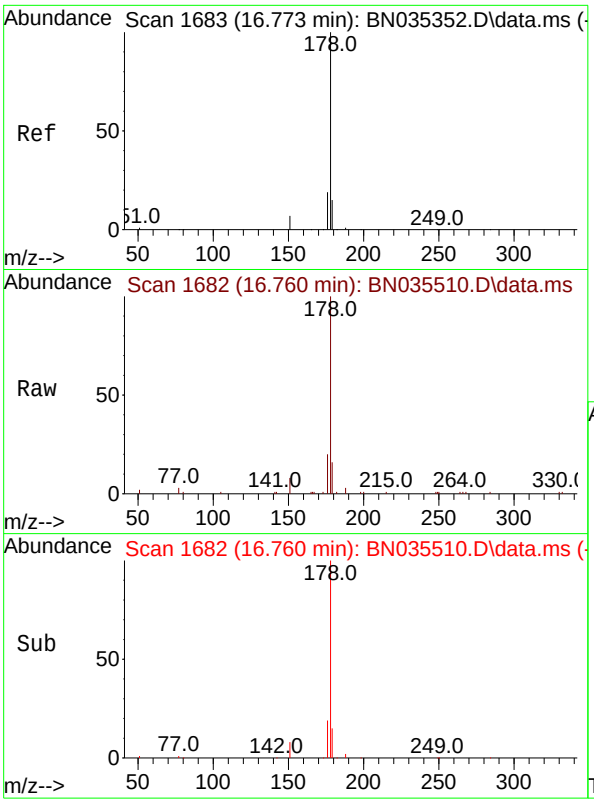


#24
Pentachlorophenol
Concen: 0.341 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:266 Resp: 925

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	64.3	43.3	64.9



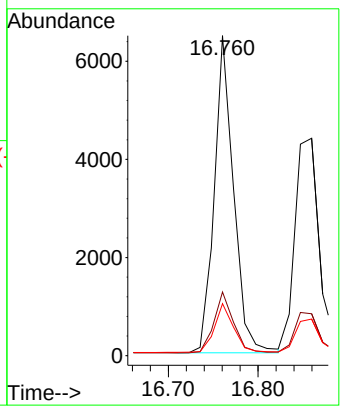


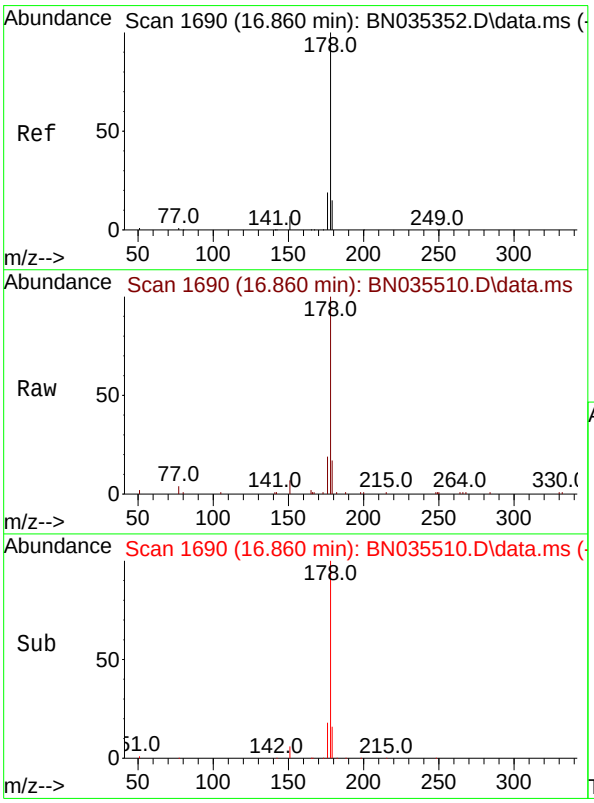
#25
Phenanthrene
Concen: 0.387 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 9661

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.6	12.3	18.5

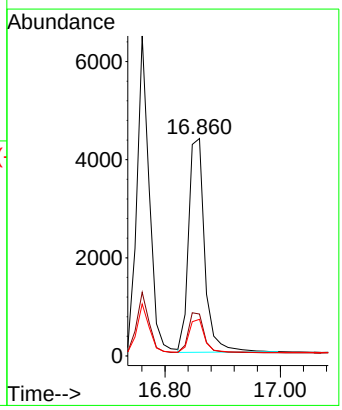


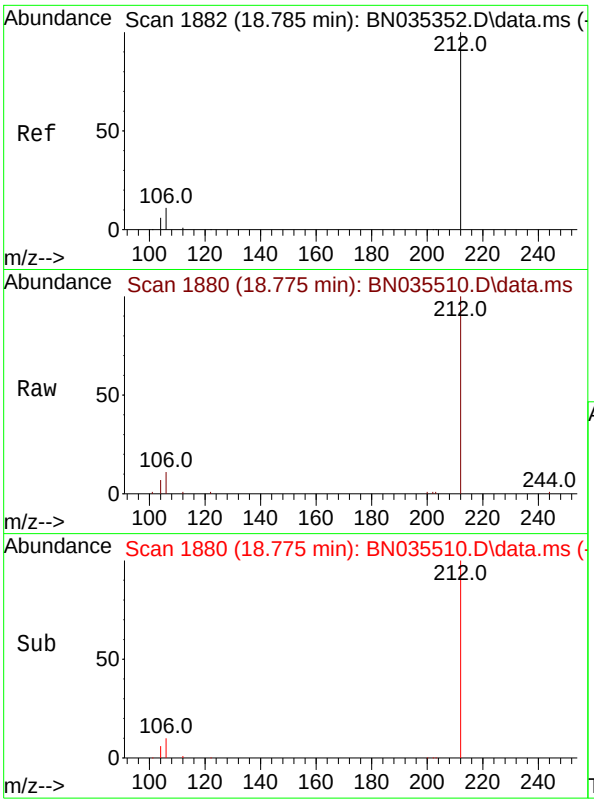


#26
Anthracene
Concen: 0.374 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:178 Resp: 8433

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8



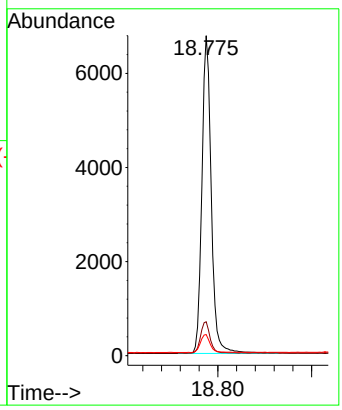


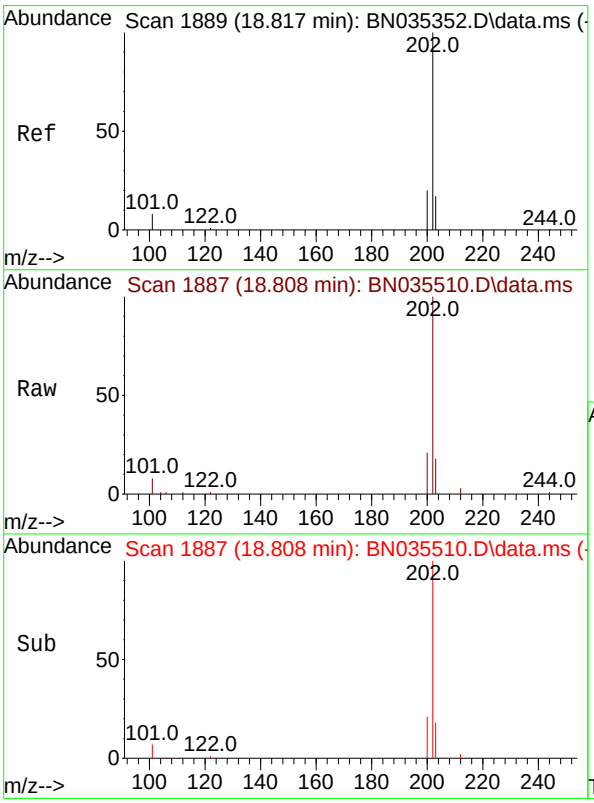
#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9358

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.9	5.3	7.9

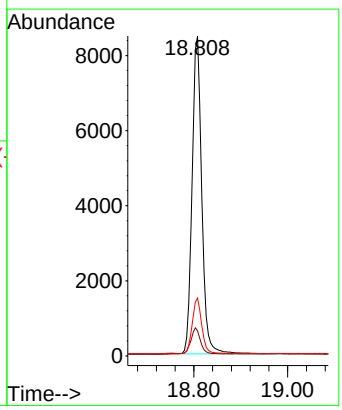


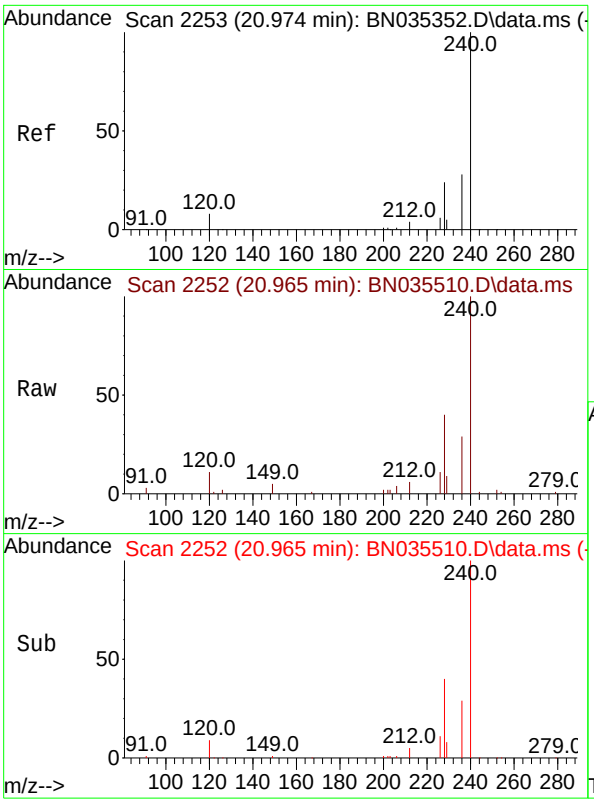


#28
Fluoranthene
Concen: 0.362 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:202 Resp: 12158

Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.4	11.0
203	17.0	13.7	20.5



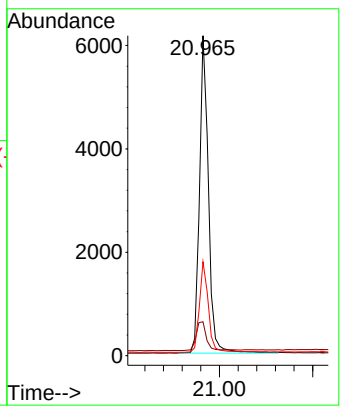


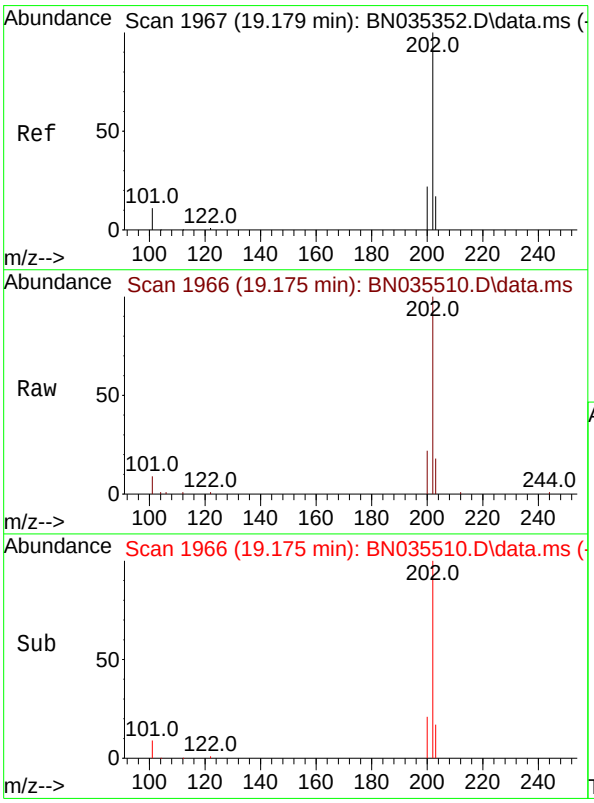
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8166

Ion	Ratio	Lower	Upper
240	100		
120	10.6	7.9	11.9
236	29.4	22.9	34.3

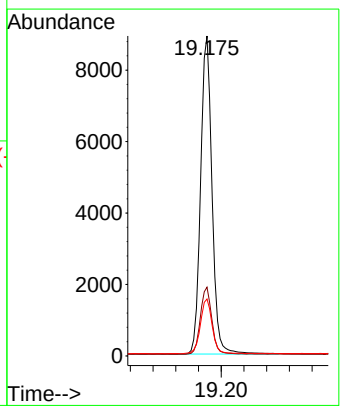


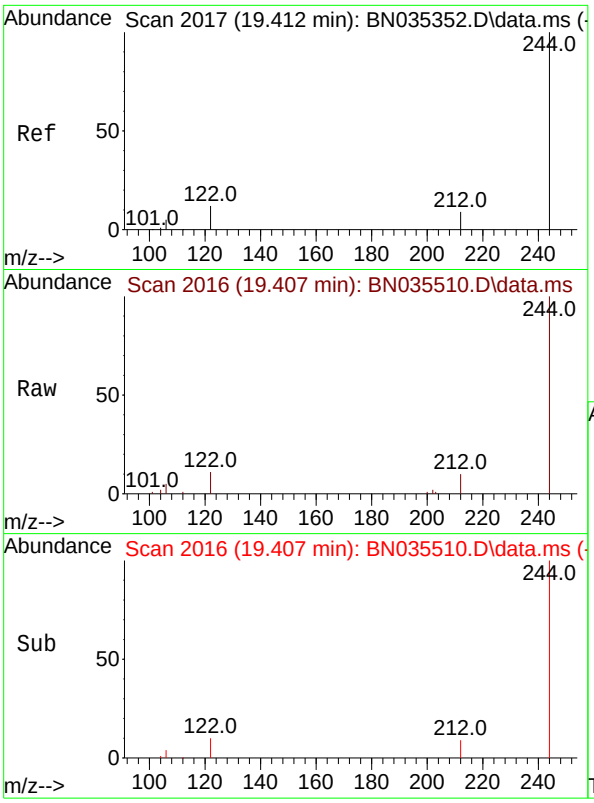


#30
Pyrene
Concen: 0.411 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:202 Resp: 12397

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.7	14.3	21.5



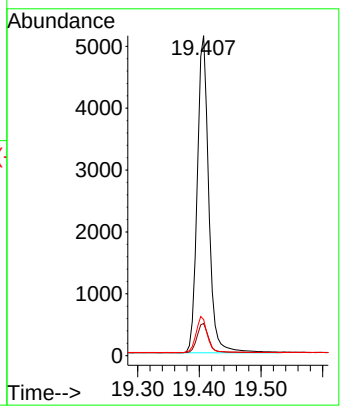


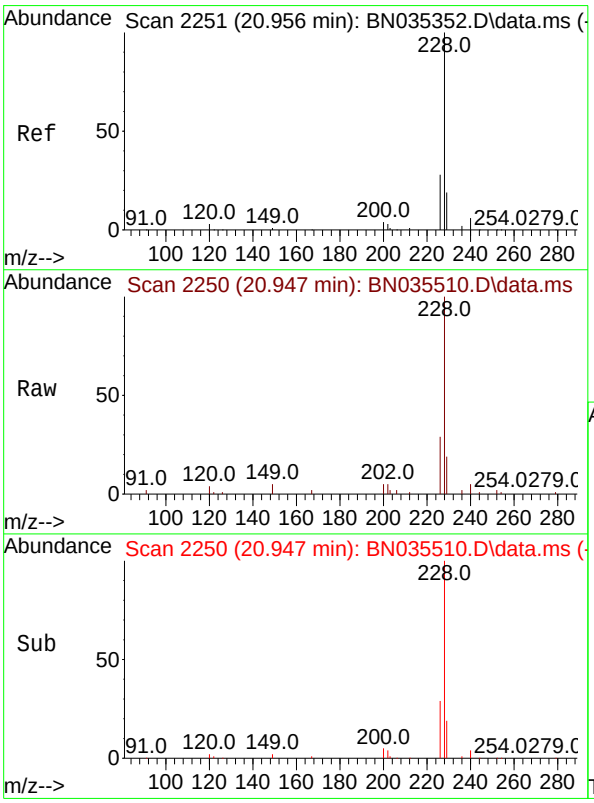
#31
Terphenyl-d14
Concen: 0.414 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6666

Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	11.3	10.3	15.5

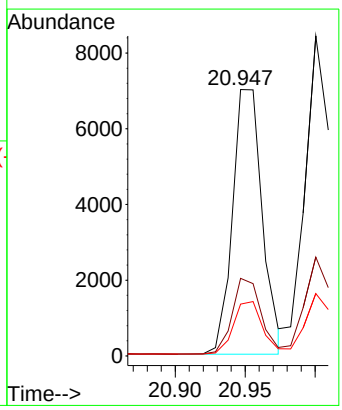


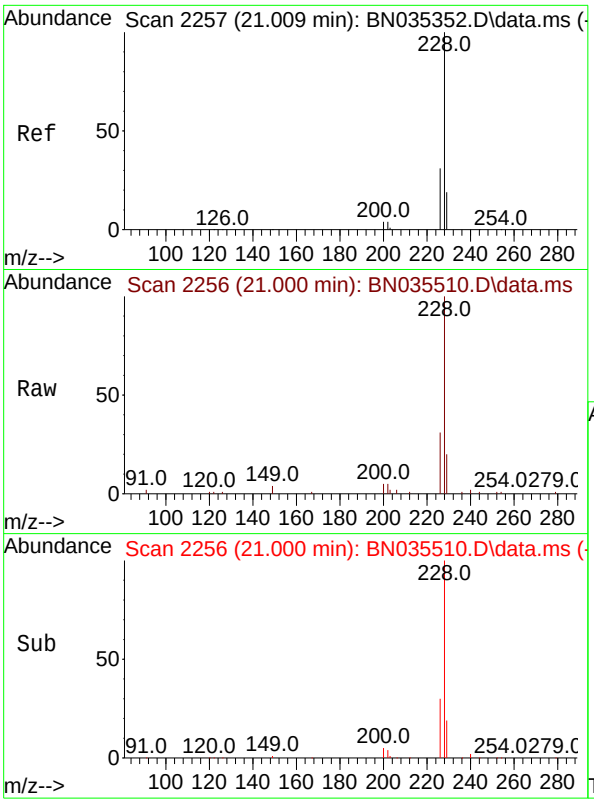


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:228 Resp: 10365

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.5	33.7
229	19.5	15.8	23.8



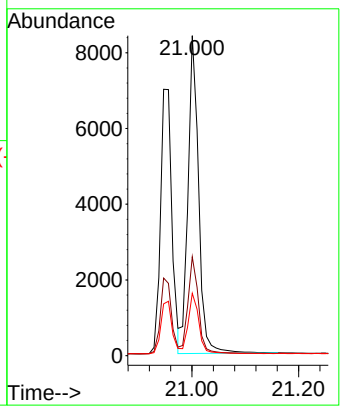


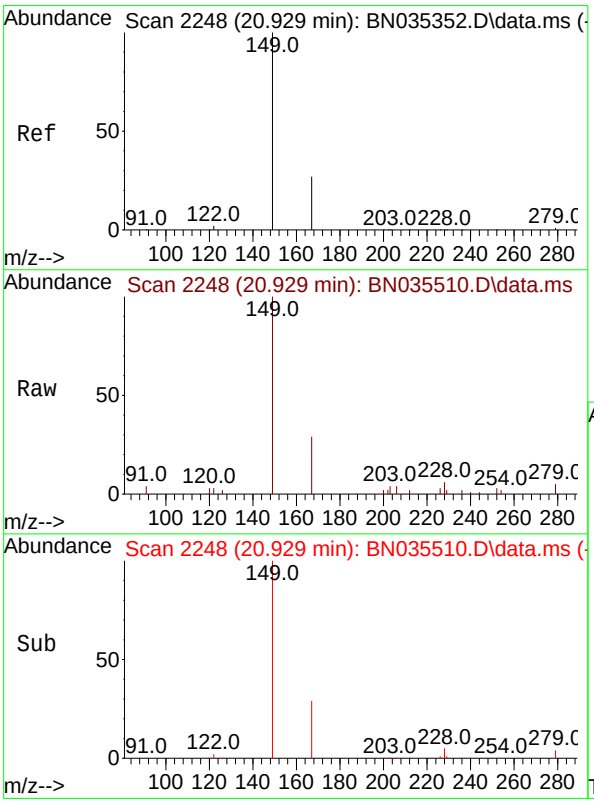
#33
Chrysene
Concen: 0.394 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 11620

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.5	15.9	23.9

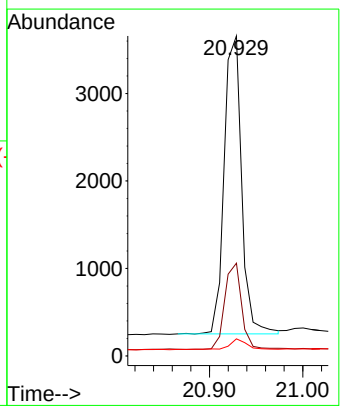


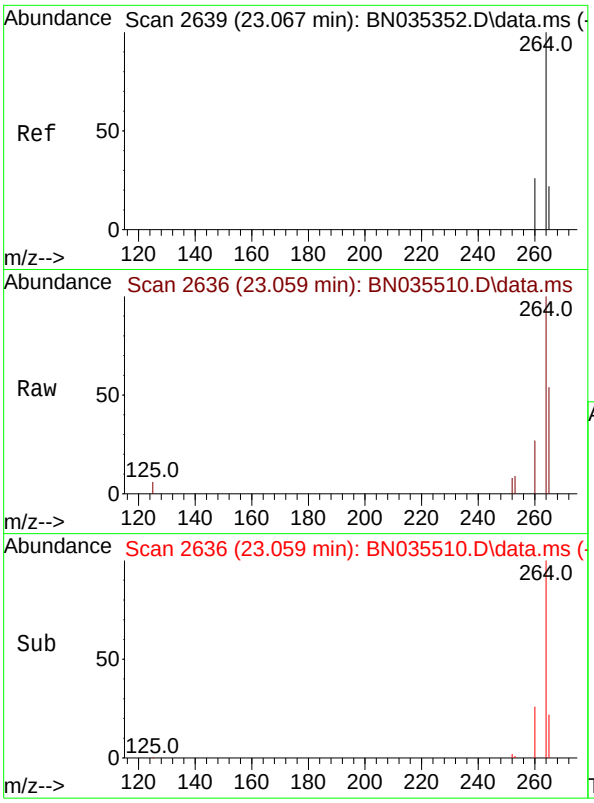


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.392 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:149 Resp: 4418

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.4	2.7	4.1



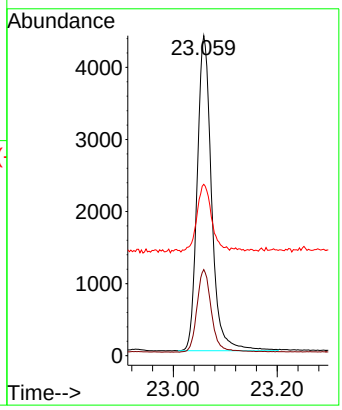


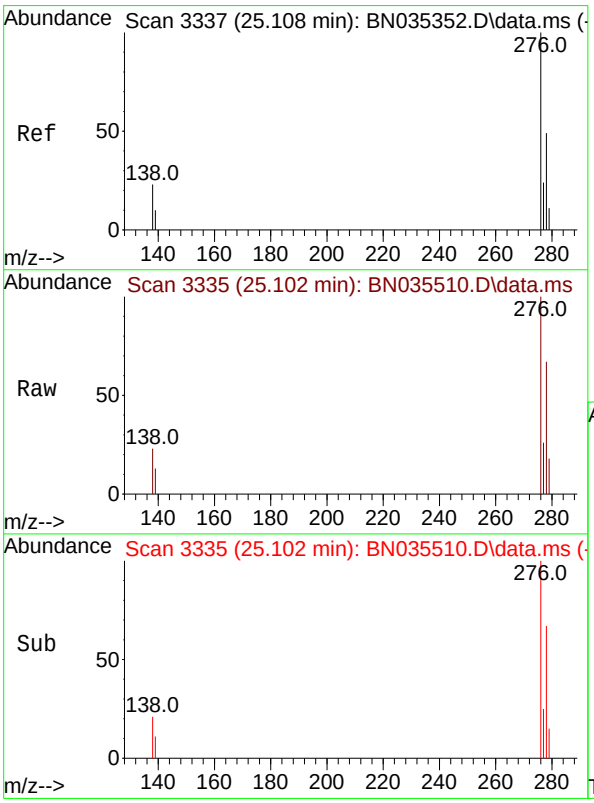
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8385

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	53.6	40.2	60.4

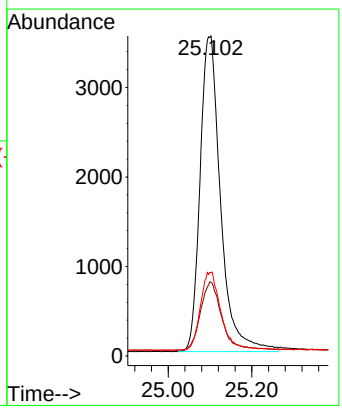


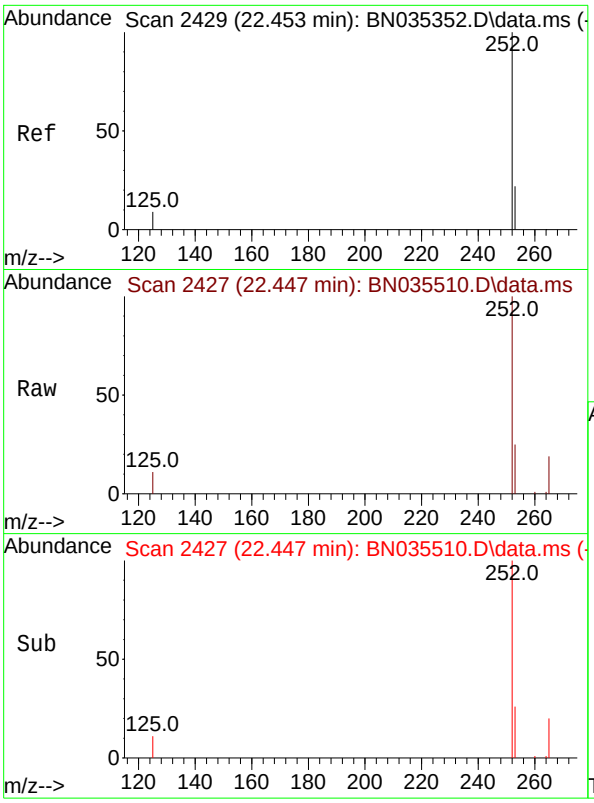


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:276 Resp: 12024

Ion	Ratio	Lower	Upper
276	100		
138	21.7	19.4	29.0
277	24.6	19.8	29.6



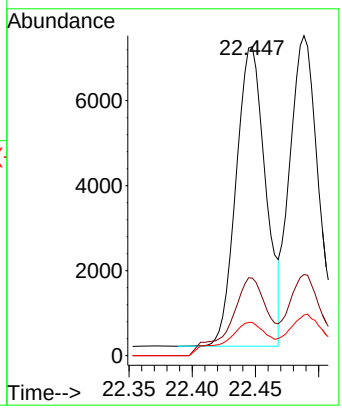


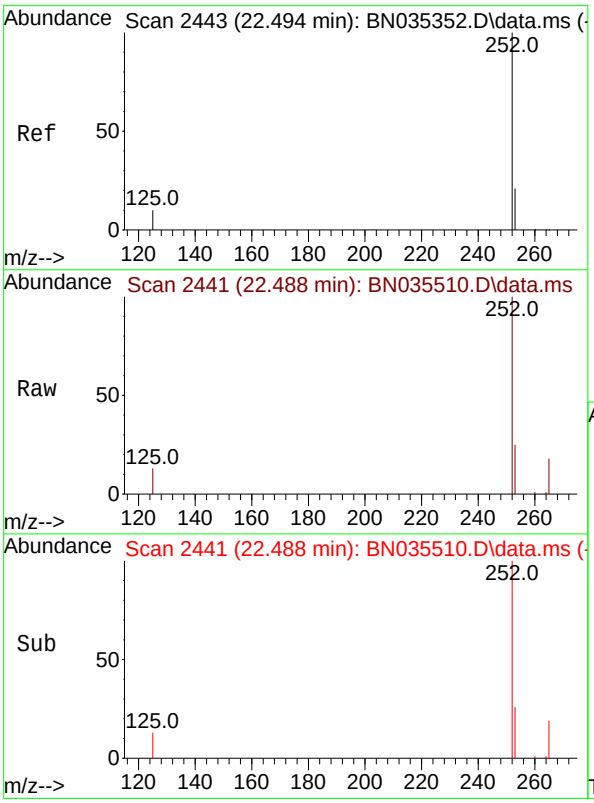
#37
Benzo(b)fluoranthene
Concen: 0.440 ng
RT: 22.447 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 13501

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.6	29.4
125	10.8	9.6	14.4

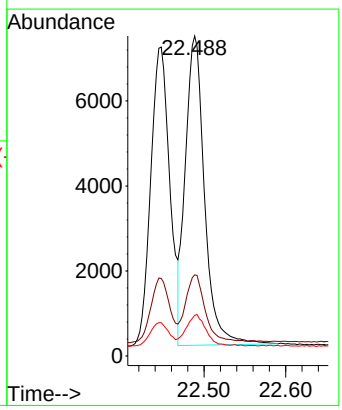


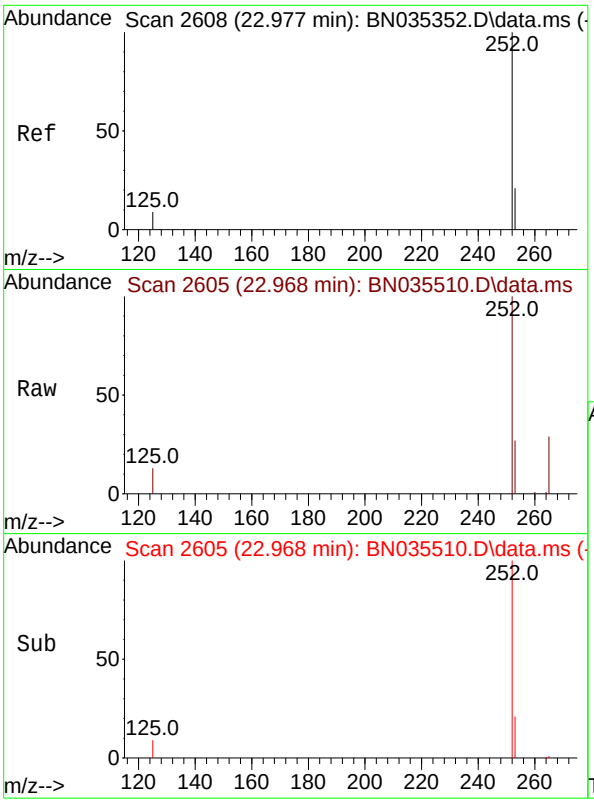


#38
Benzo(k)fluoranthene
Concen: 0.394 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:252 Resp: 11908

Ion	Ratio	Lower	Upper
252	100		
253	25.4	19.5	29.3
125	12.7	10.2	15.4



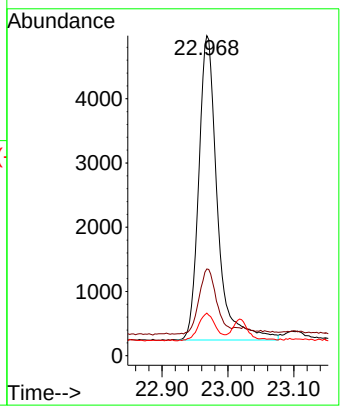


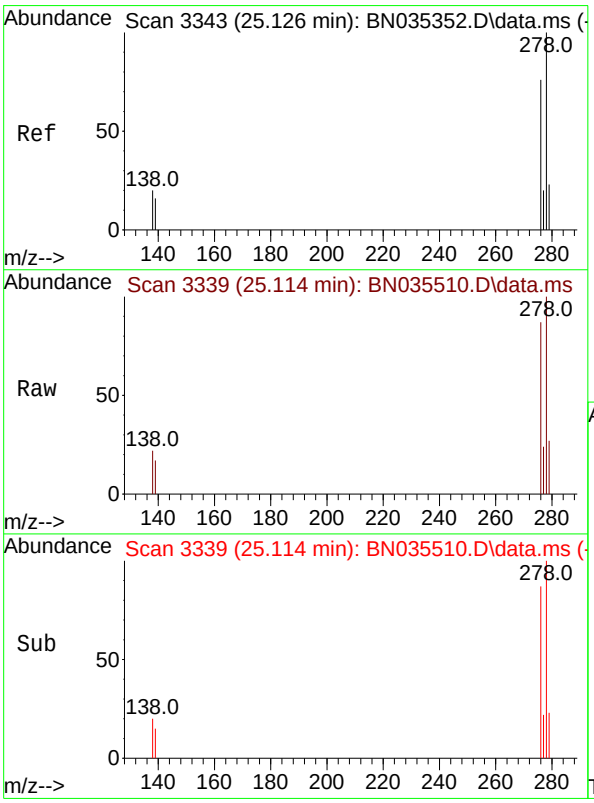
#39
Benzo(a)pyrene
Concen: 0.369 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9314

Ion	Ratio	Lower	Upper
252	100		
253	27.1	20.2	30.4
125	13.3	10.9	16.3

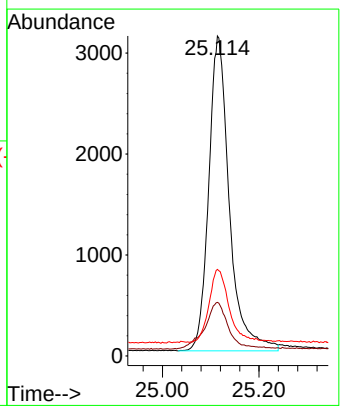


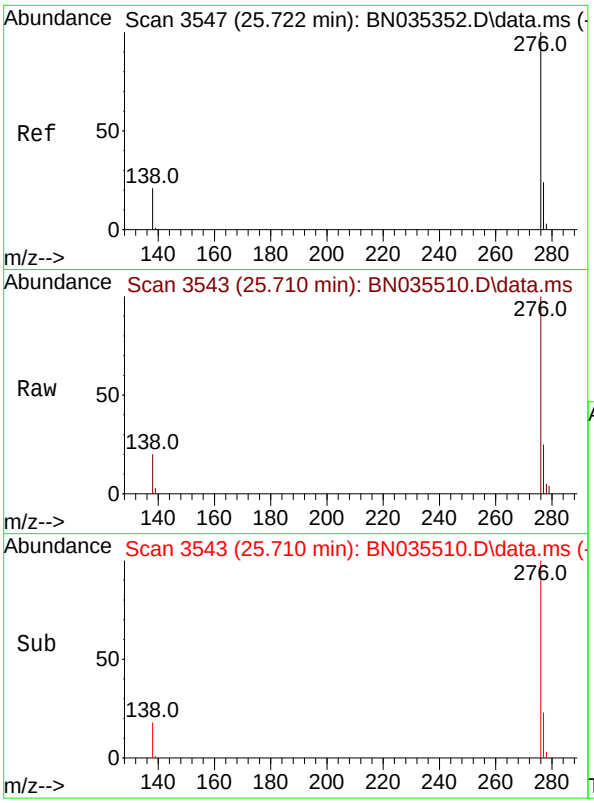


#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 25.114 min Scan# 3339
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Tgt Ion:278 Resp: 9233

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.2	21.4
279	27.0	20.5	30.7



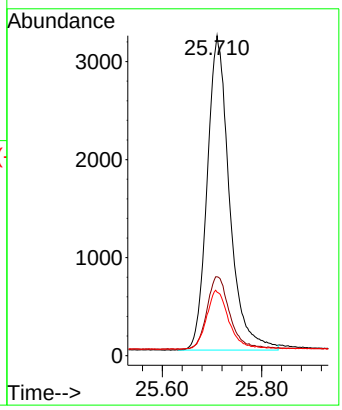


#41
Benzo(g,h,i)perylene
Concen: 0.369 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035510.D
Acq: 09 Dec 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 9987

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	19.9	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1641	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4578	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3247	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	7570	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6431	0.400	ng	0.00
35) Perylene-d12	23.067	264	6251	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1921	0.468	ng	-0.01
5) Phenol-d6	6.506	99	2074	0.420	ng	0.00
8) Nitrobenzene-d5	8.440	82	1459	0.522	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3268	0.456	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	444	0.193	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5214	0.425	ng	0.00
27) Fluoranthene-d10	18.785	212	9599	0.447	ng	0.00
31) Terphenyl-d14	19.407	244	7154	0.564	ng	0.00
Target Compounds						Qvalue

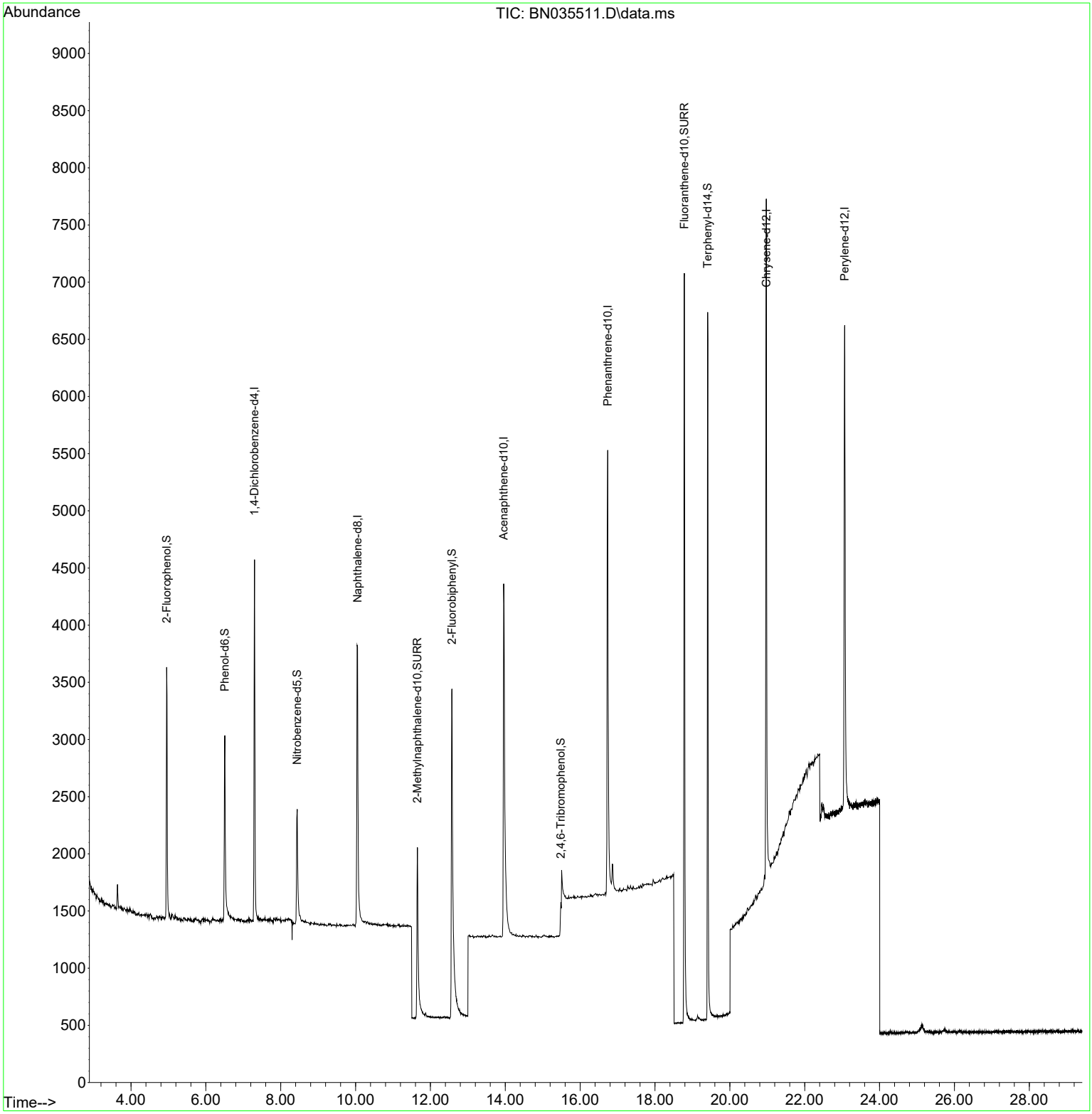
(#) = qualifier out of range (m) = manual integration (+) = signals summed

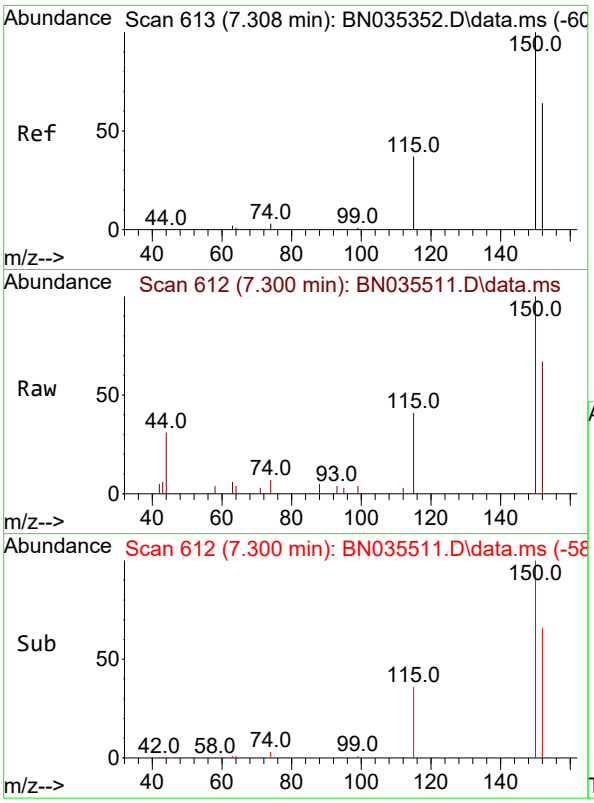
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035511.D
Acq On : 09 Dec 2024 17:43
Operator : RC/JU
Sample : PB165497BL
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Quant Time: Dec 10 01:26:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



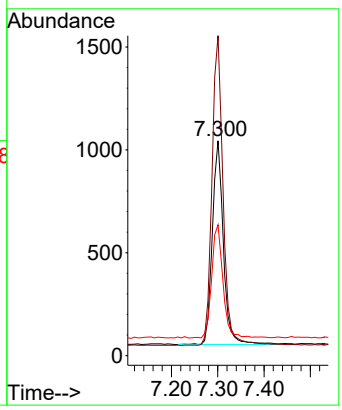


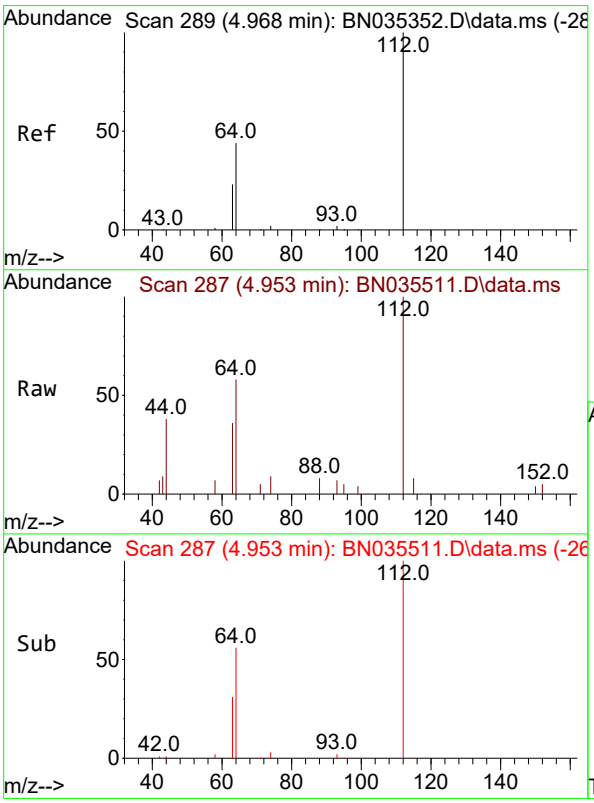
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion:152 Resp: 1641

Ion	Ratio	Lower	Upper
152	100		
150	148.9	124.0	186.0
115	60.9	49.6	74.4

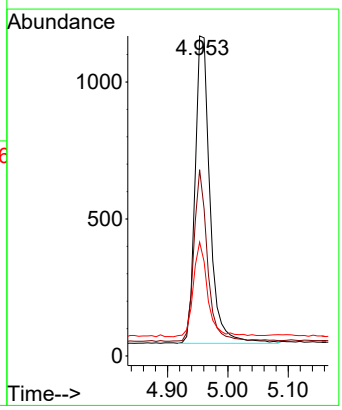


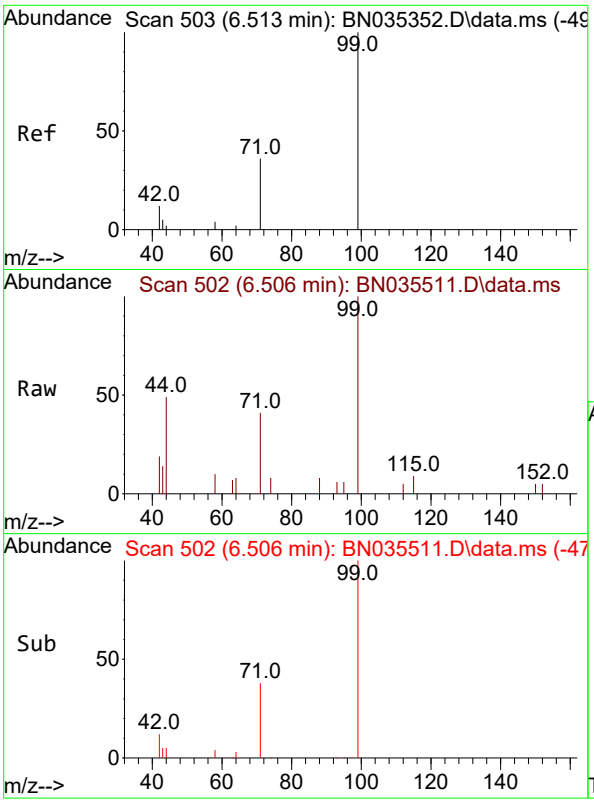


#4
2-Fluorophenol
Concen: 0.468 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:112 Resp: 1921

Ion	Ratio	Lower	Upper
112	100		
64	50.3	39.8	59.8
63	30.1	21.0	31.6



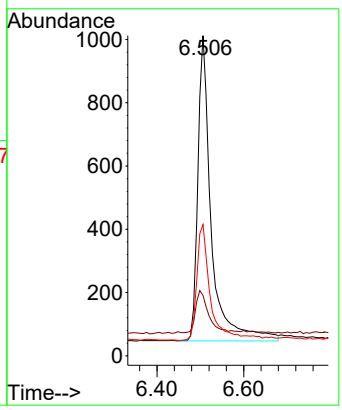


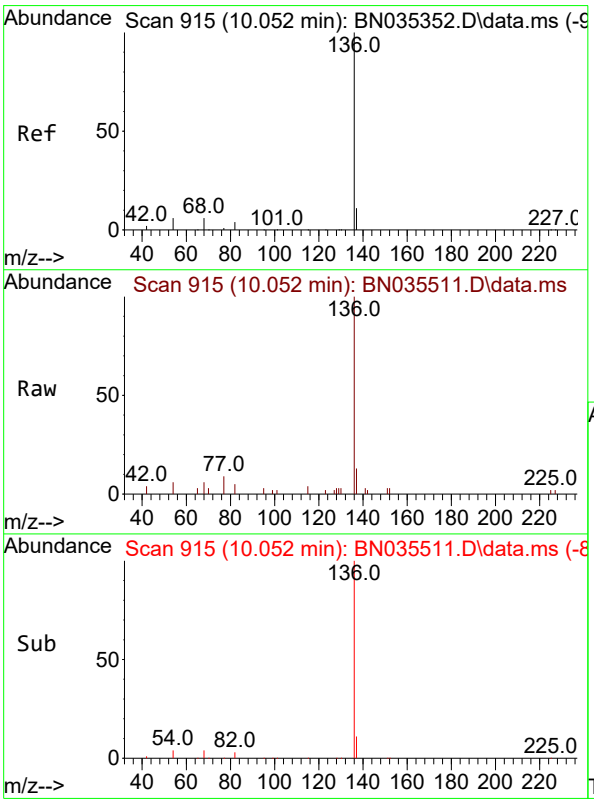
#5
Phenol-d6
Concen: 0.420 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion: 99 Resp: 2074

Ion	Ratio	Lower	Upper
99	100		
42	13.2	11.4	17.2
71	37.0	29.3	43.9

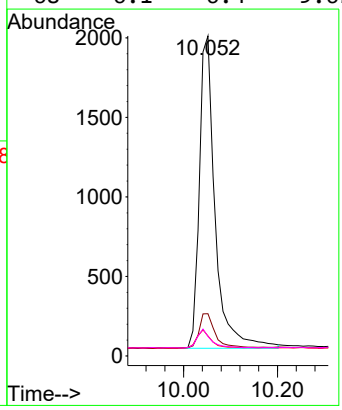


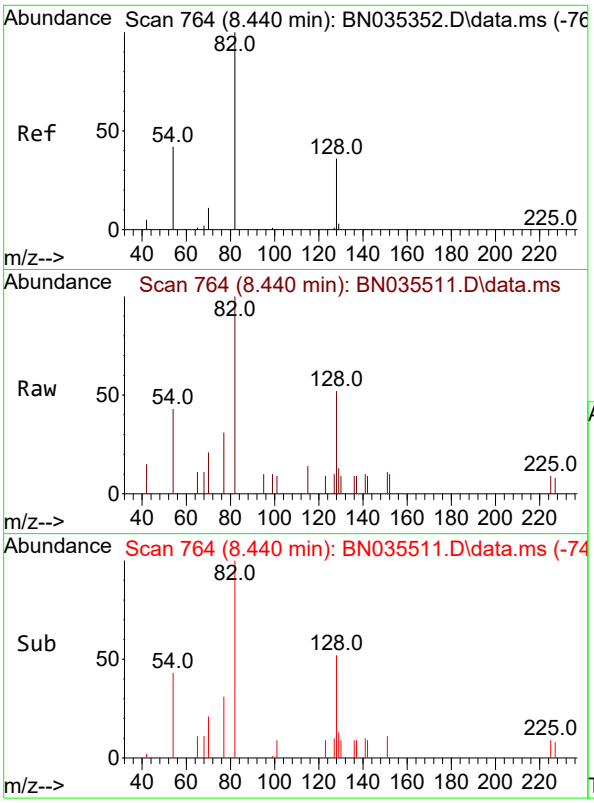


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:136 Resp: 4578

Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.2	15.2
54	6.3	6.1	9.1
68	6.1	6.4	9.6#



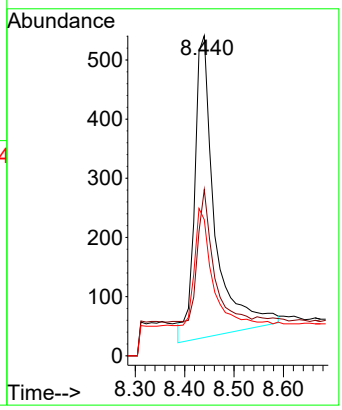


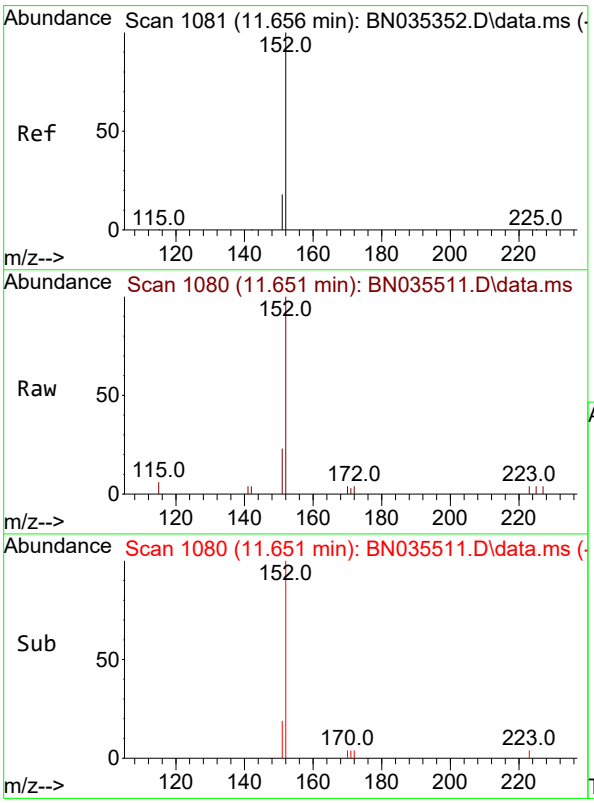
#8
Nitrobenzene-d5
Concen: 0.522 ng
RT: 8.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion: 82 Resp: 1459

Ion	Ratio	Lower	Upper
82	100		
128	51.9	33.4	50.0#
54	42.5	36.7	55.1

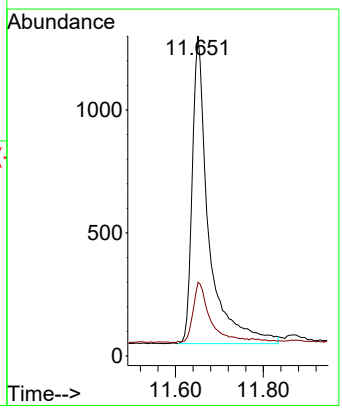


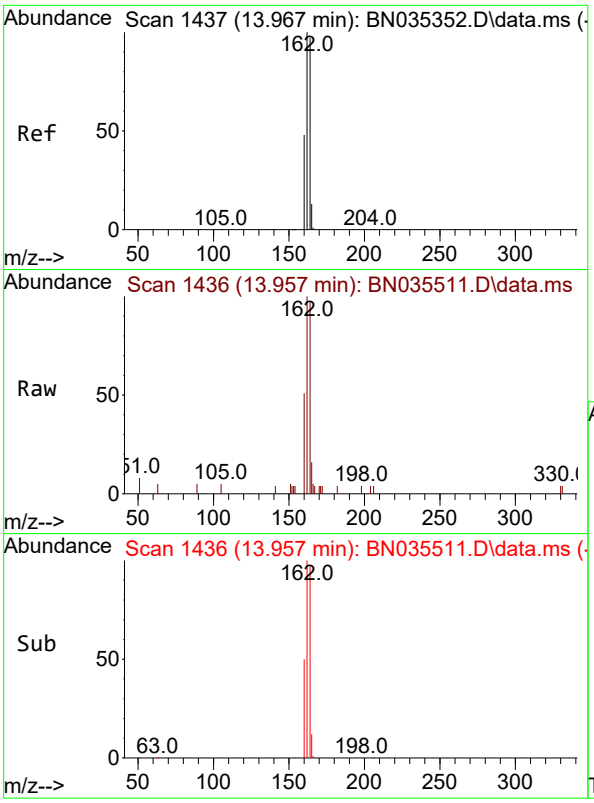


#11
2-Methylnaphthalene-d10
Concen: 0.456 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:152 Resp: 3268

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



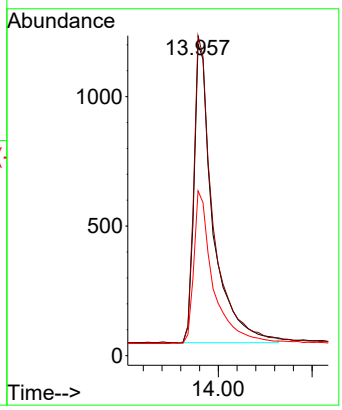


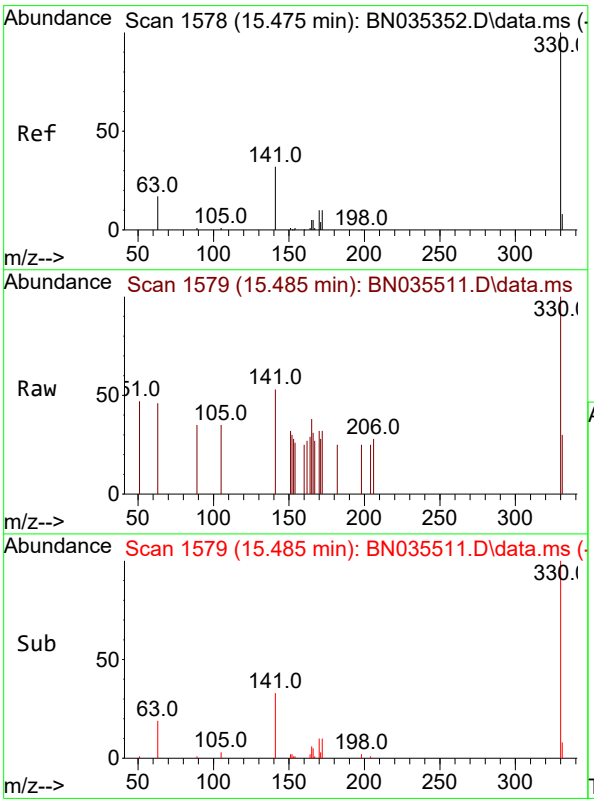
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion:164 Resp: 3247

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	52.9	40.1	60.1

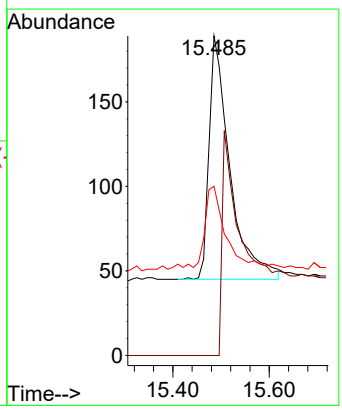


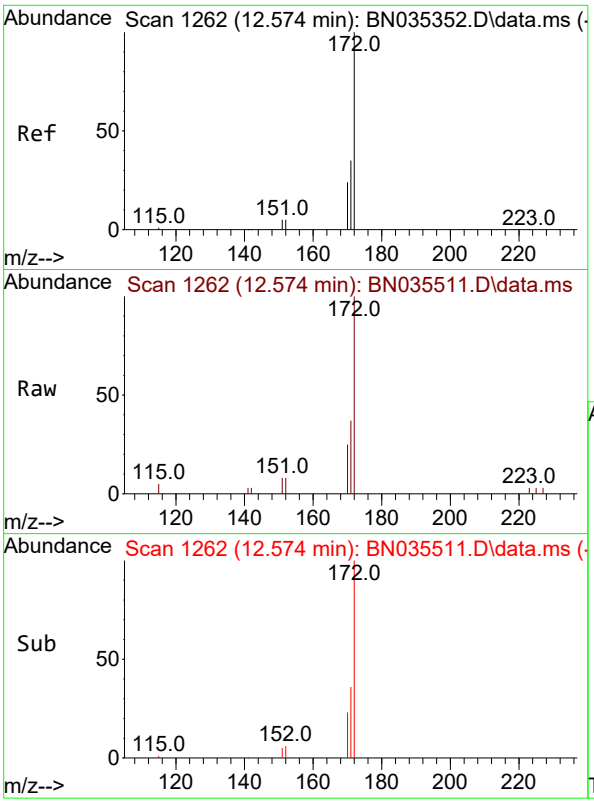


#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.485 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:330 Resp: 444

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.9	26.6	40.0



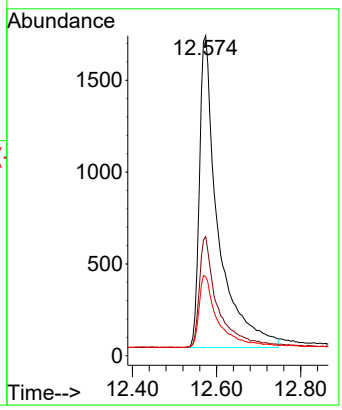


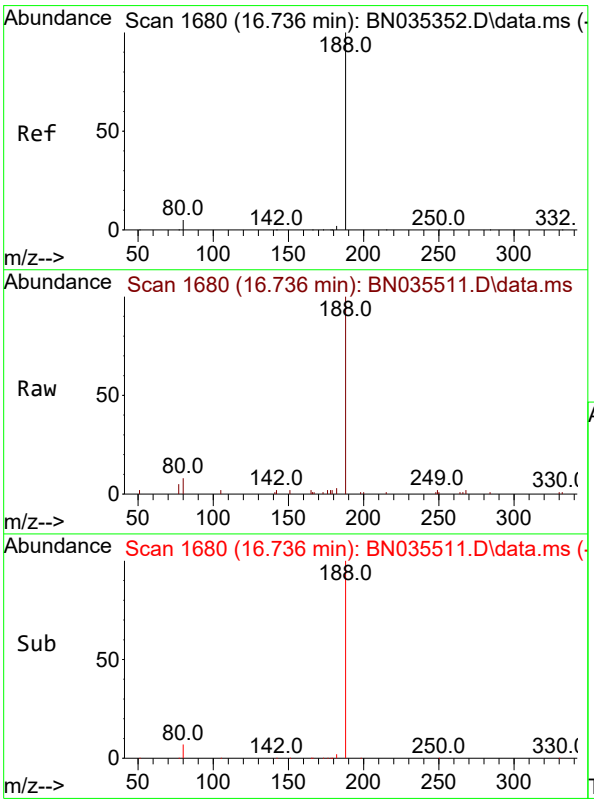
#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion:172 Resp: 5214

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.0	43.4
170	24.7	19.8	29.8

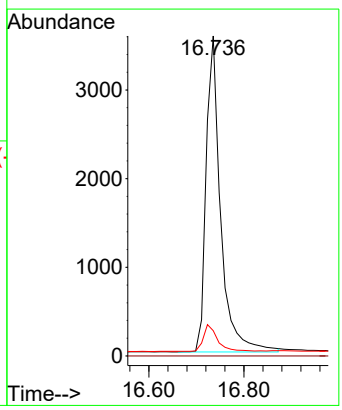


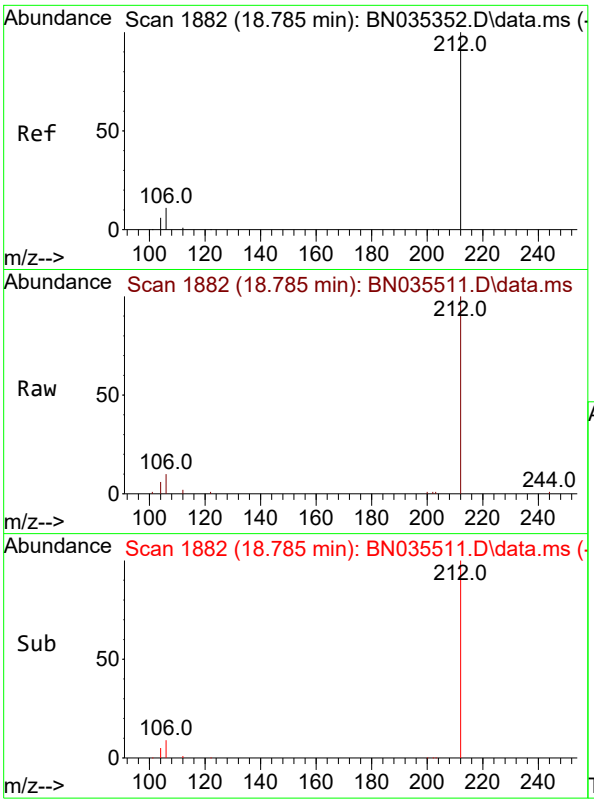


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:188 Resp: 7570

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.6	6.8#



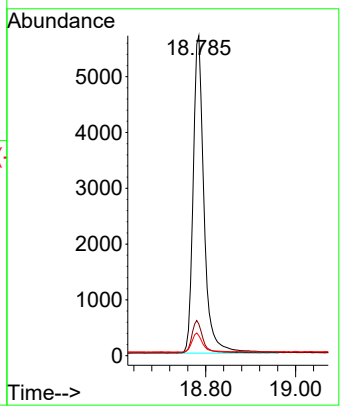


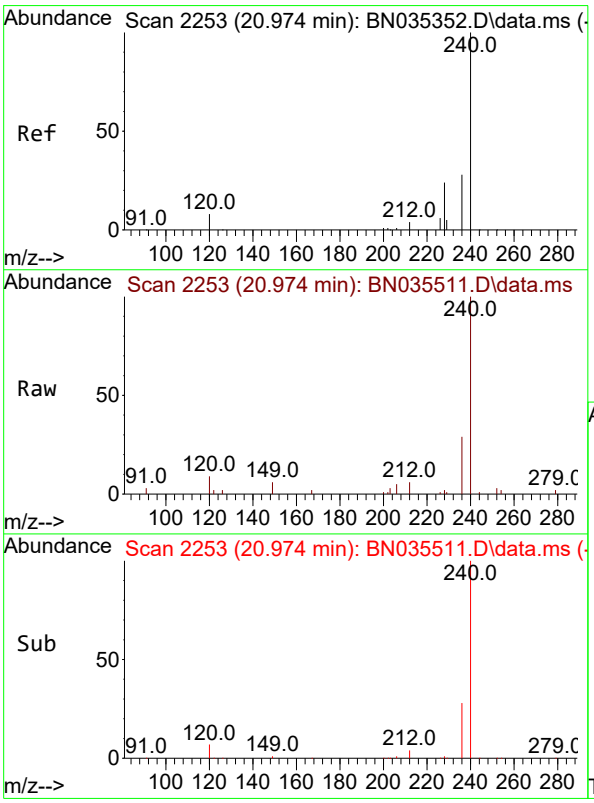
#27
Fluoranthene-d10
Concen: 0.447 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion:212 Resp: 9599

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.9	5.3	7.9

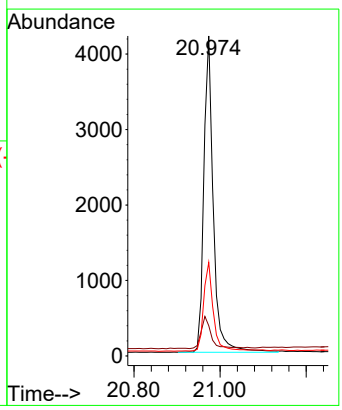


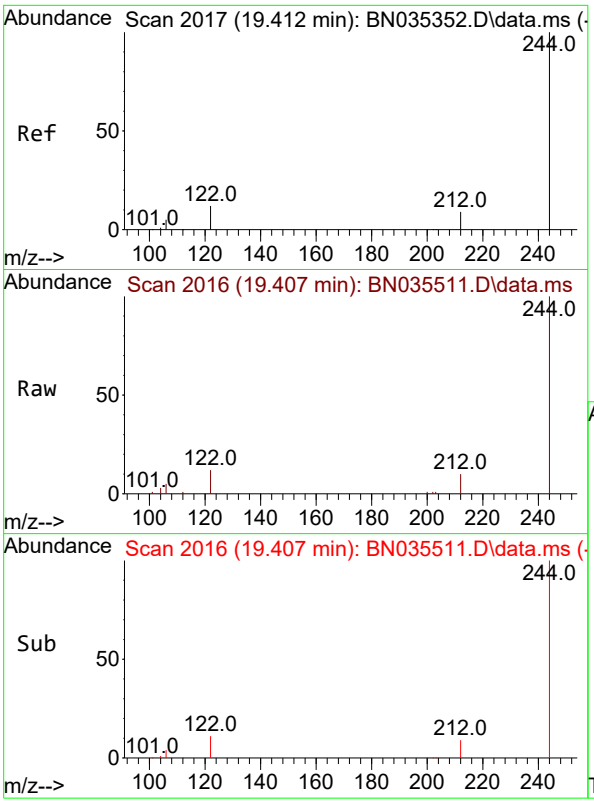


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:240 Resp: 6431

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	29.2	22.9	34.3



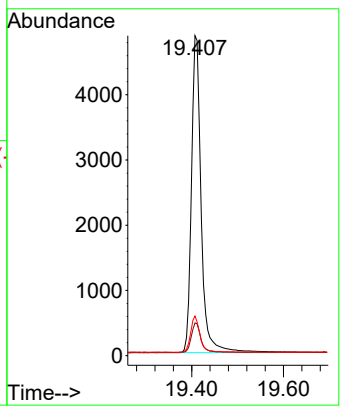


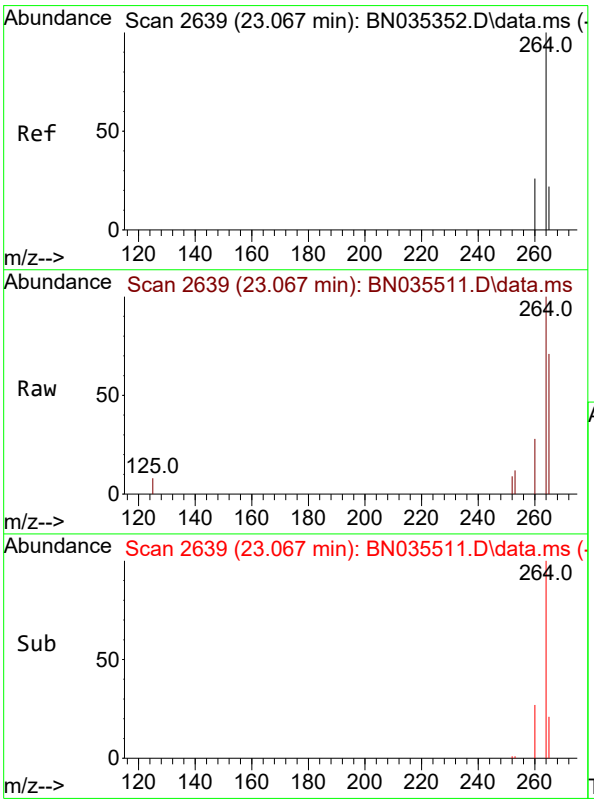
#31
Terphenyl-d14
Concen: 0.564 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Instrument :
BNA_N
ClientSampleId :
PB165497BL

Tgt Ion:244 Resp: 7154

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	12.4	10.3	15.5

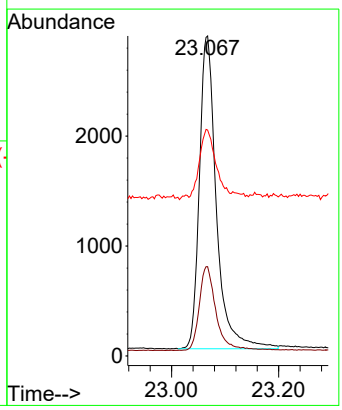




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035511.D
Acq: 09 Dec 2024 17:43

Tgt Ion:264 Resp: 6251

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	70.6	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035517.D
Acq On : 09 Dec 2024 21:19
Operator : RC/JU
Sample : P5166-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Quant Time: Dec 10 01:28:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1838	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4853	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3623	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9117	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7610	0.400	ng	0.00
35) Perylene-d12	23.062	264	7094	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	595	0.129	ng	-0.01
5) Phenol-d6	6.506	99	377	0.068	ng	0.00
8) Nitrobenzene-d5	8.429	82	1264	0.426	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2654	0.349	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	576	0.224	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4520	0.330	ng	0.00
27) Fluoranthene-d10	18.775	212	10401	0.402	ng	0.00
31) Terphenyl-d14	19.403	244	8300	0.553	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	14824	8.437	ng	95
3) n-Nitrosodimethylamine	3.220	42	474	0.324	ng	# 1
6) bis(2-Chloroethyl)ether	6.745	93	275	0.059	ng	95
34) Bis(2-ethylhexyl)phtha...	20.920	149	708	0.067	ng	# 98

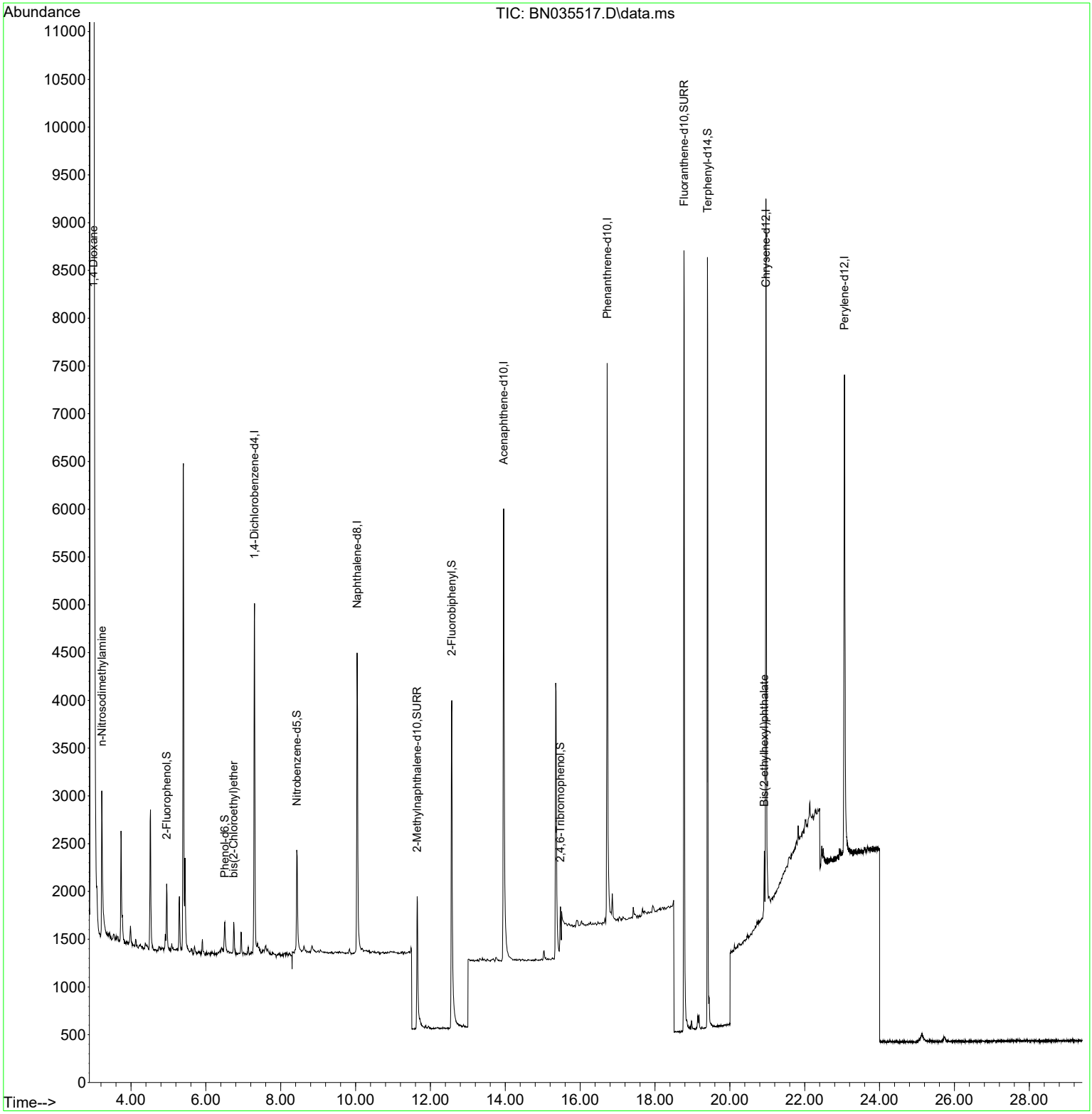
(#) = qualifier out of range (m) = manual integration (+) = signals summed

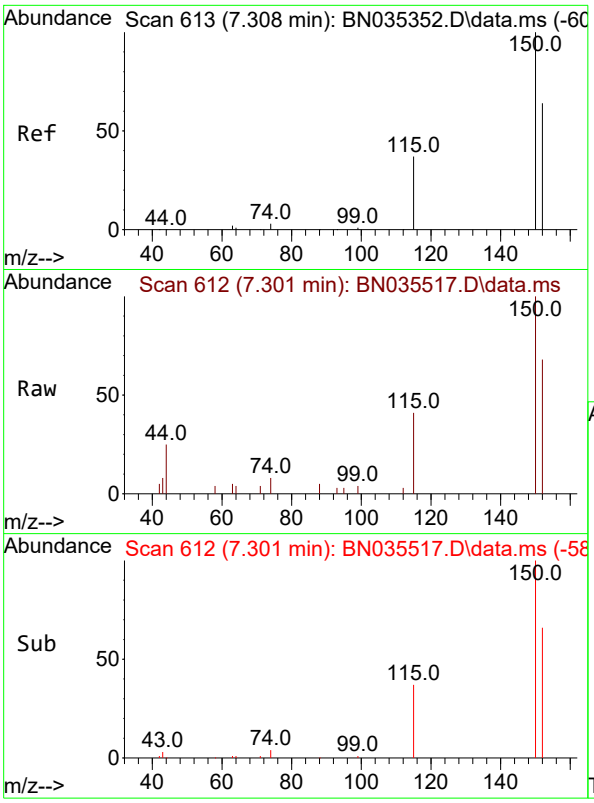
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035517.D
Acq On : 09 Dec 2024 21:19
Operator : RC/JU
Sample : P5166-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Quant Time: Dec 10 01:28:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



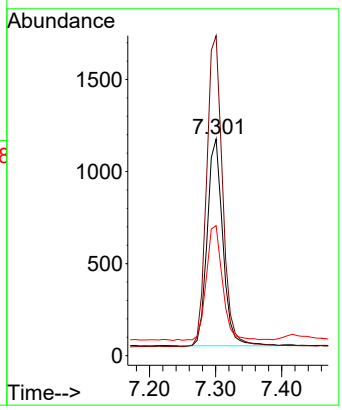


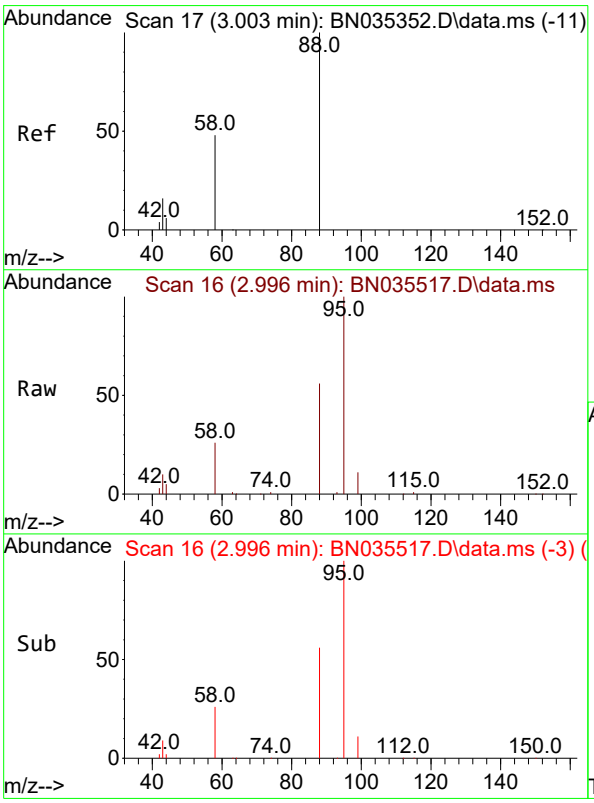
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:152 Resp: 1838

Ion	Ratio	Lower	Upper
152	100		
150	147.7	124.0	186.0
115	60.1	49.6	74.4

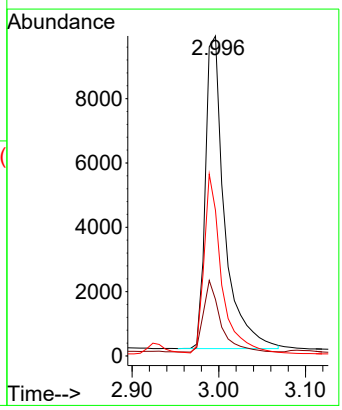


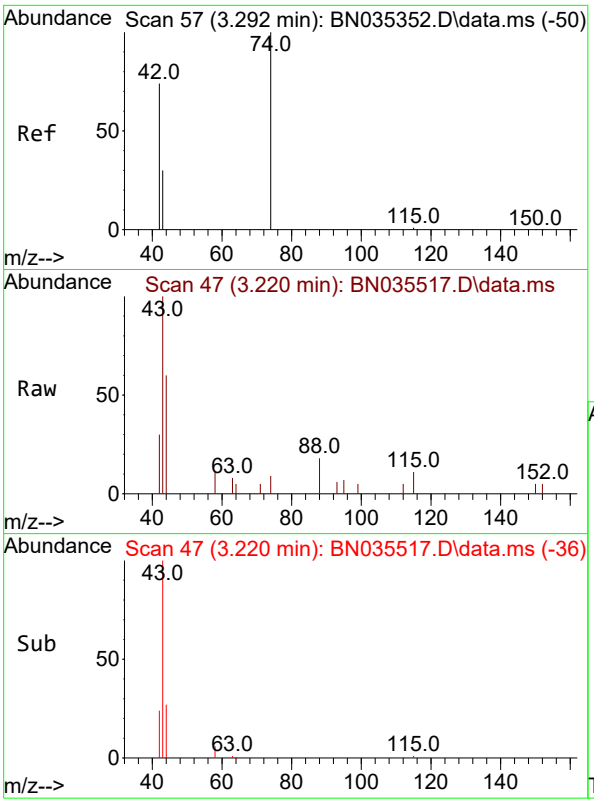


#2
1,4-Dioxane
Concen: 8.437 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 88 Resp: 14824

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	51.3	44.5	66.7



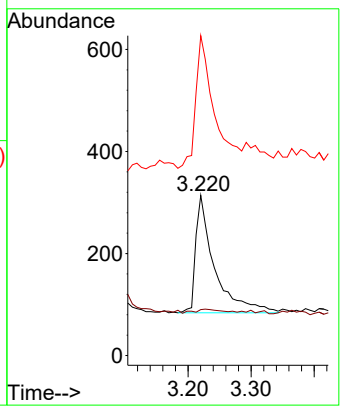


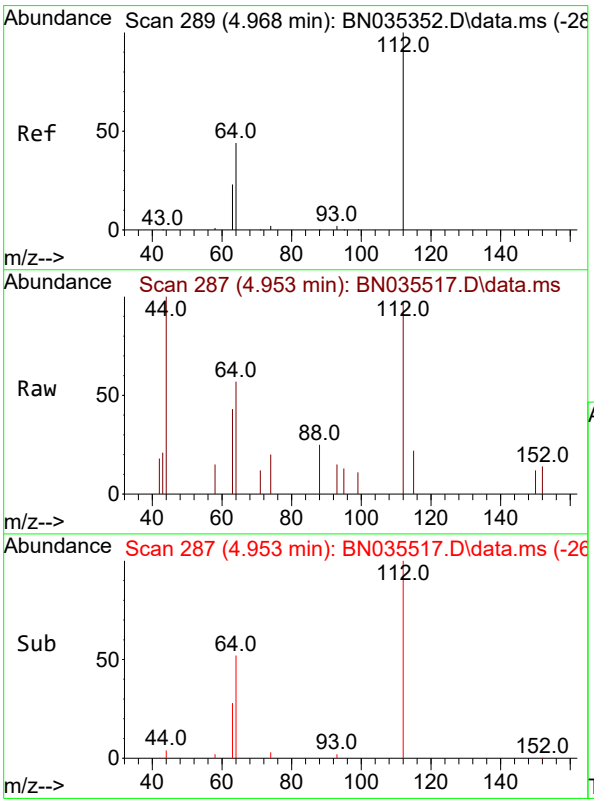
#3
n-Nitrosodimethylamine
Concen: 0.324 ng
RT: 3.220 min Scan# 4
Delta R.T. -0.072 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion: 42 Resp: 474

Ion	Ratio	Lower	Upper
42	100		
74	2.5	124.9	187.3#
44	113.1	2.2	3.4#

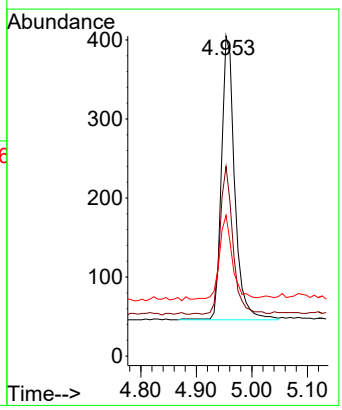


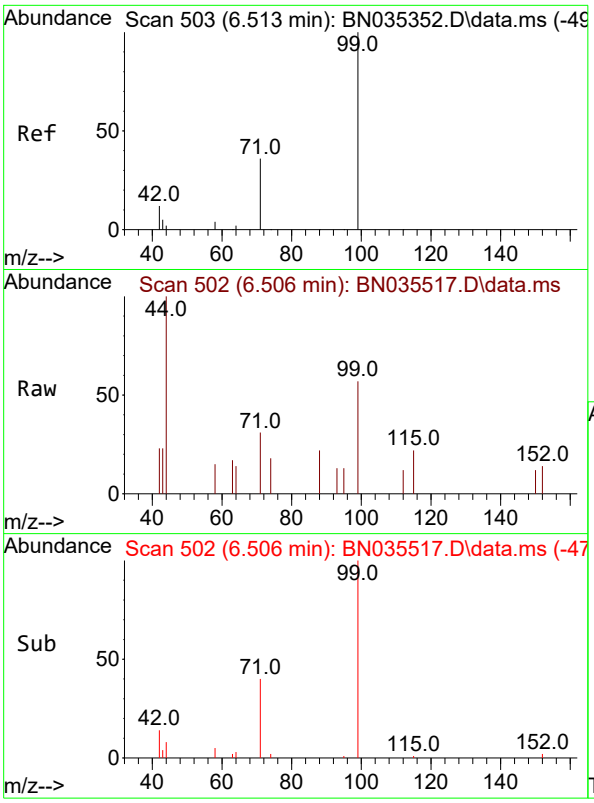


#4
2-Fluorophenol
Concen: 0.129 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:112 Resp: 595

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.8	59.8
63	28.4	21.0	31.6



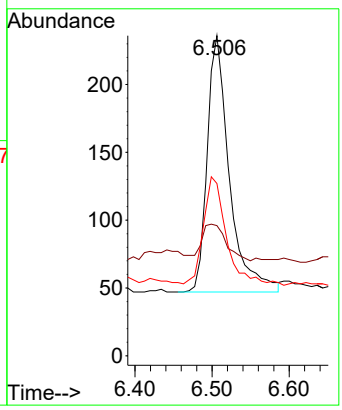


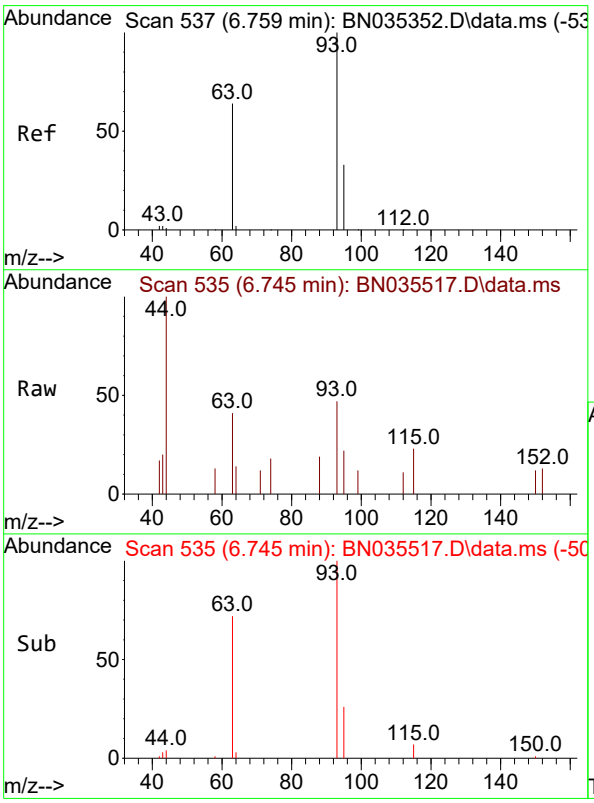
#5
Phenol-d6
Concen: 0.068 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion: 99 Resp: 377

Ion	Ratio	Lower	Upper
99	100		
42	15.1	11.4	17.2
71	46.2	29.3	43.9#

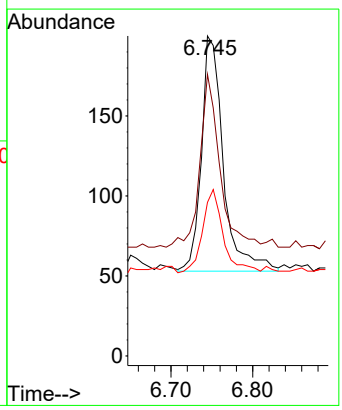


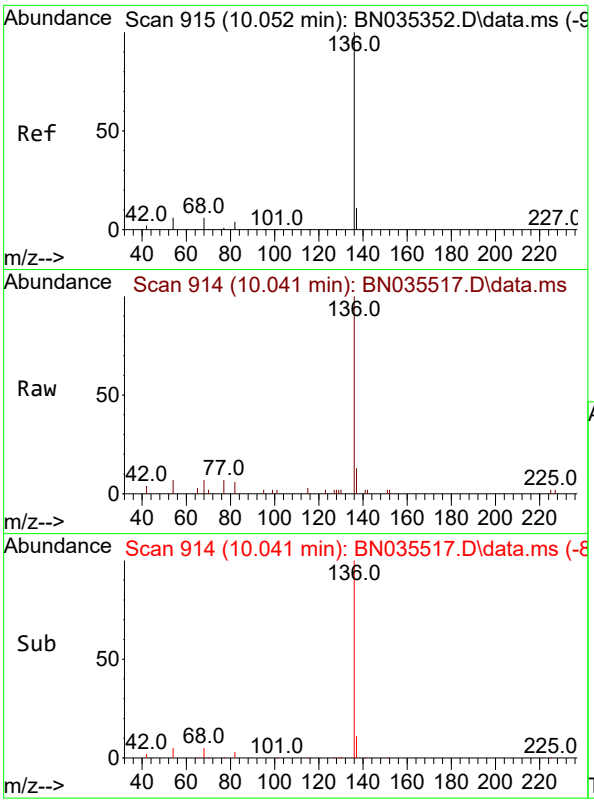


#6
bis(2-Chloroethyl)ether
Concen: 0.059 ng
RT: 6.745 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 93 Resp: 275

Ion	Ratio	Lower	Upper
93	100		
63	67.6	50.4	75.6
95	33.5	25.7	38.5



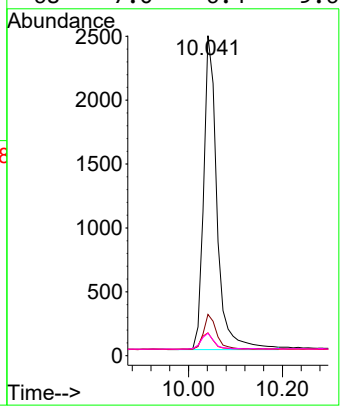


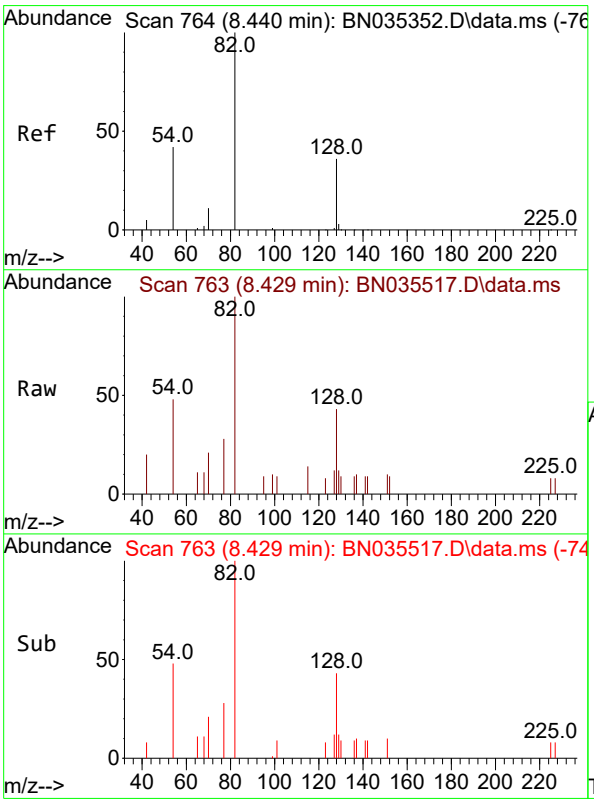
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:136 Resp: 4853

Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.2	15.2
54	7.1	6.1	9.1
68	7.0	6.4	9.6

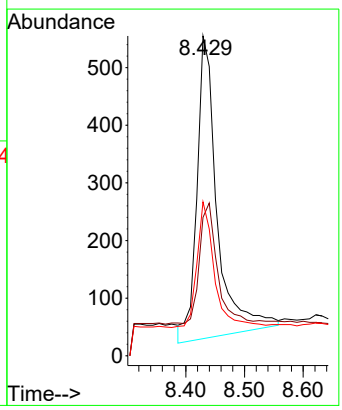


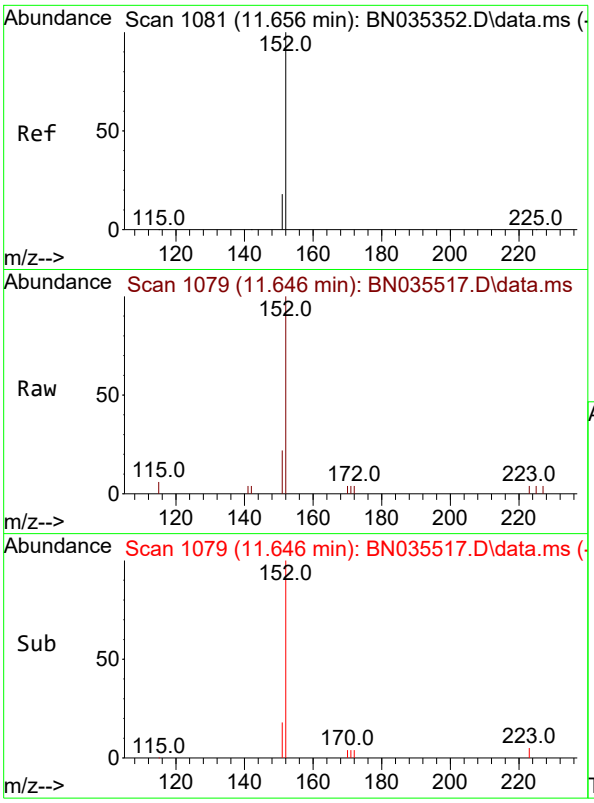


#8
Nitrobenzene-d5
Concen: 0.426 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion: 82 Resp: 1264

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.4	50.0
54	48.1	36.7	55.1



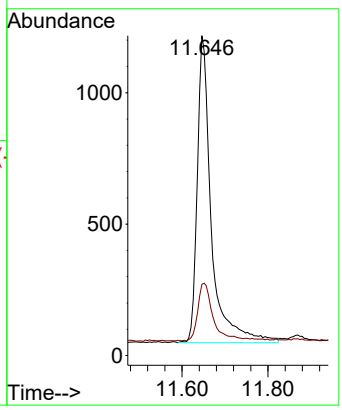


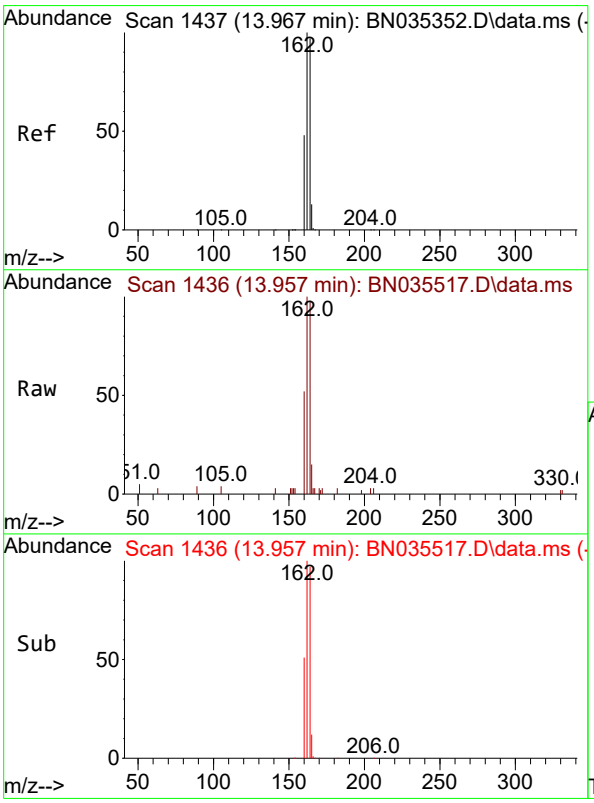
#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:152 Resp: 2654

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	25.0

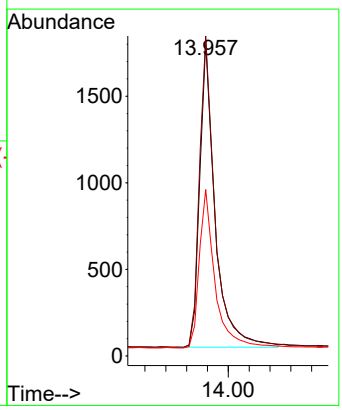


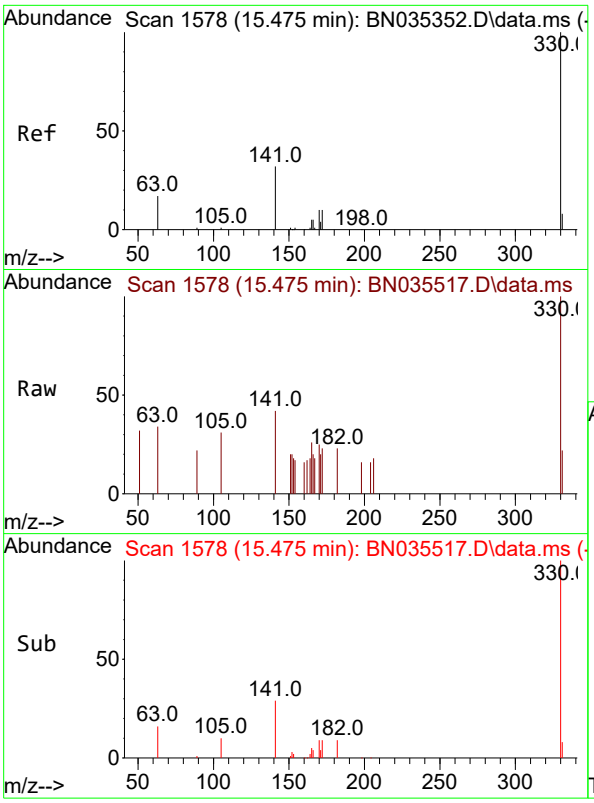


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:164 Resp: 3623

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	53.0	40.1	60.1



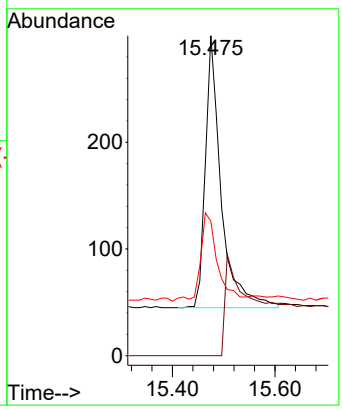


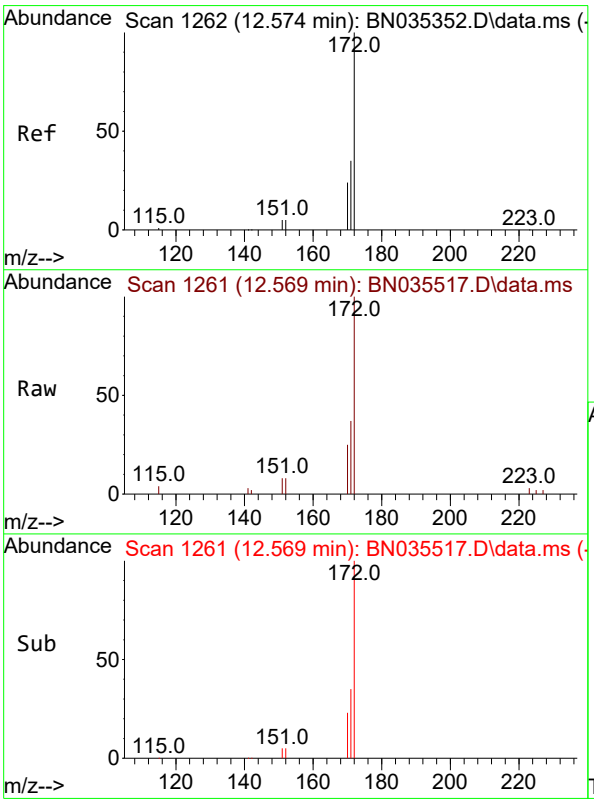
#14
2,4,6-Tribromophenol
Concen: 0.224 ng
RT: 15.475 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:330 Resp: 576

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.9	26.6	40.0

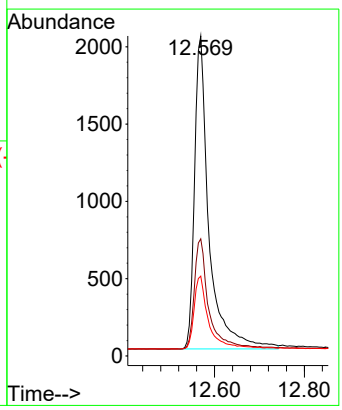


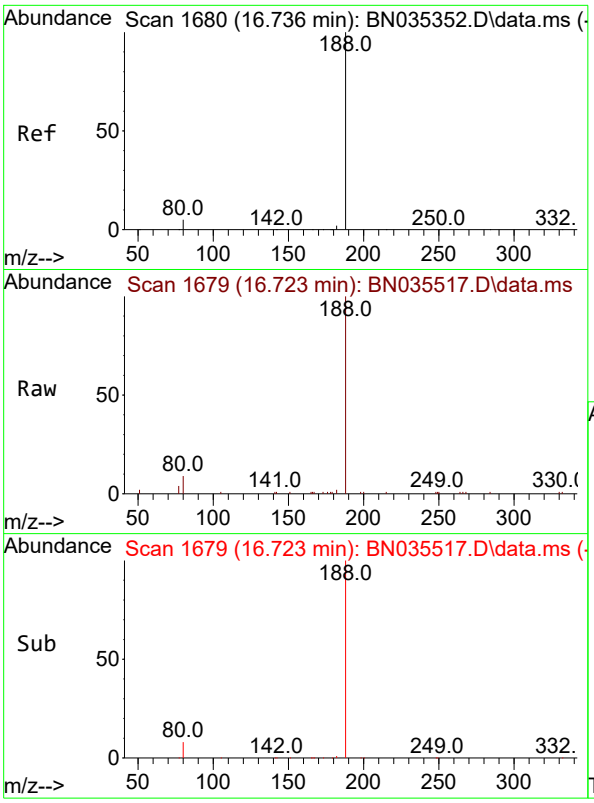


#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:172 Resp: 4520

Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.0	43.4
170	25.0	19.8	29.8



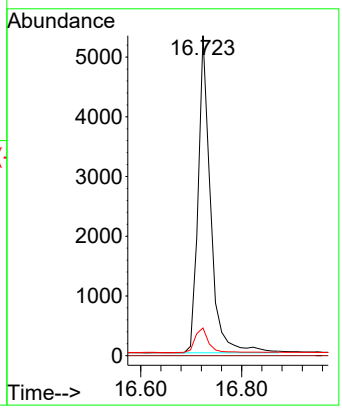


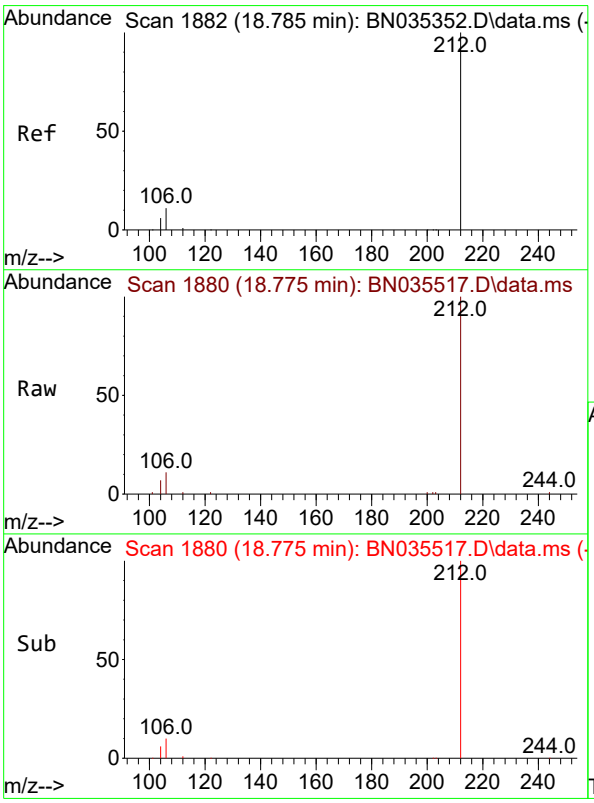
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:188 Resp: 9117

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

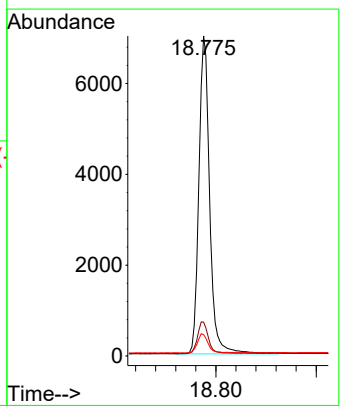


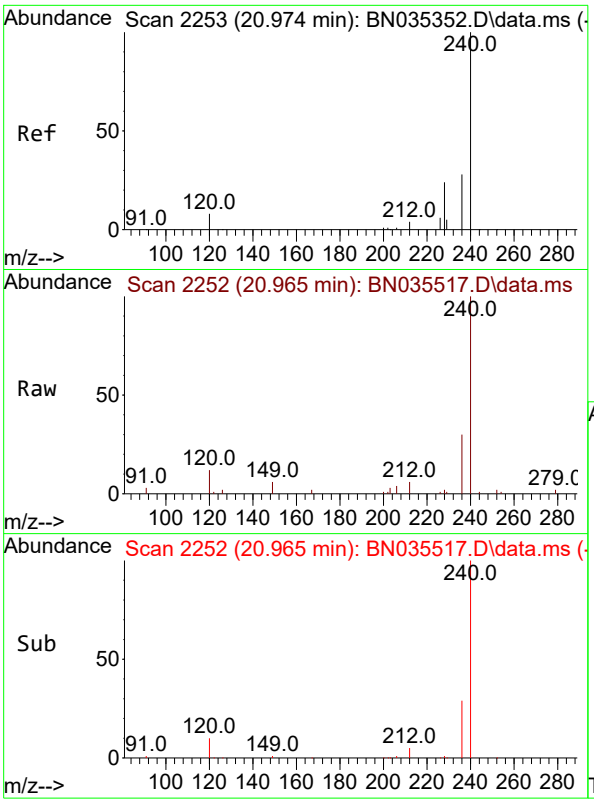


#27
Fluoranthene-d10
Concen: 0.402 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:212 Resp: 10401

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.9	5.3	7.9



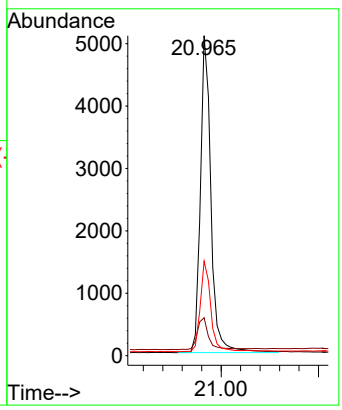


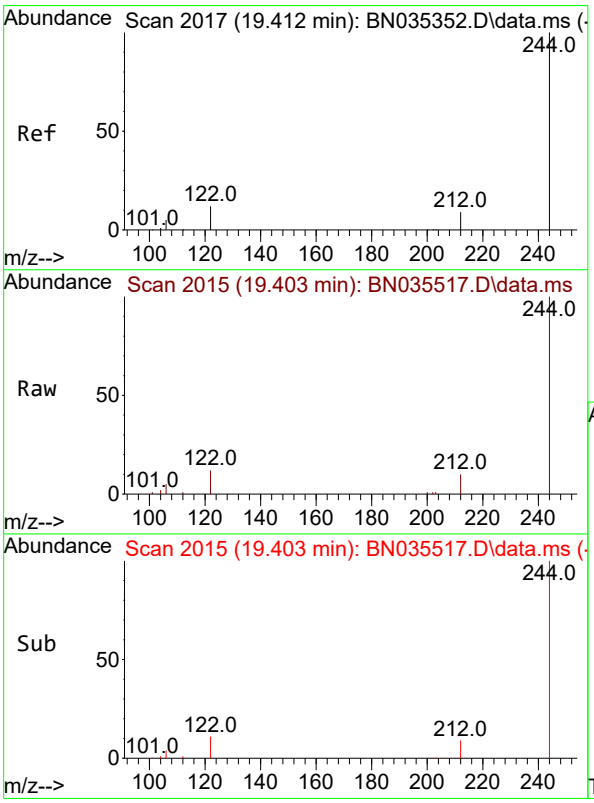
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:240 Resp: 7610

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	29.5	22.9	34.3

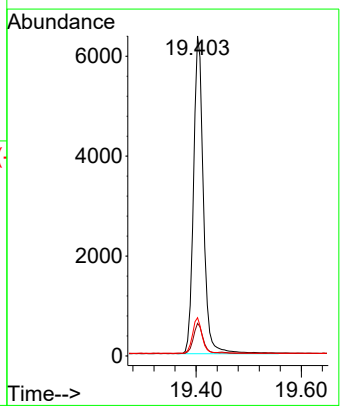


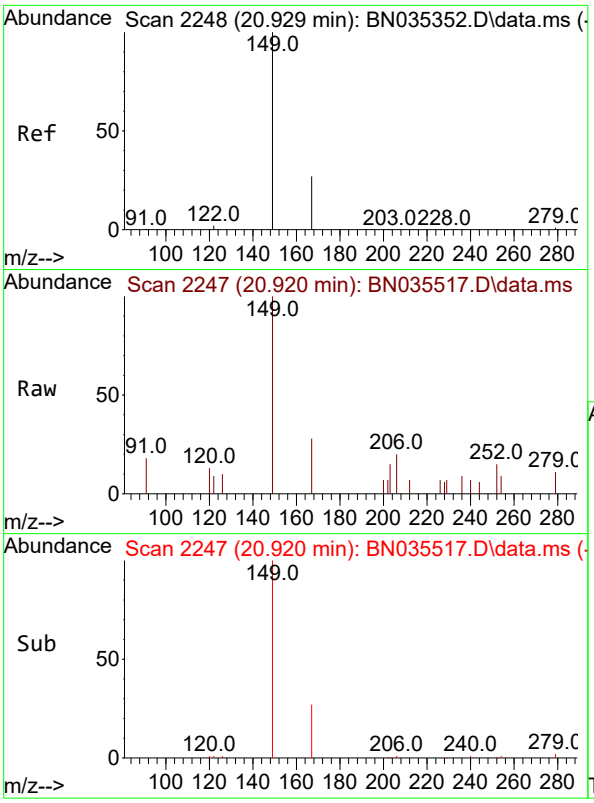


#31
Terphenyl-d14
Concen: 0.553 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:244 Resp: 8300

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.9	10.3	15.5



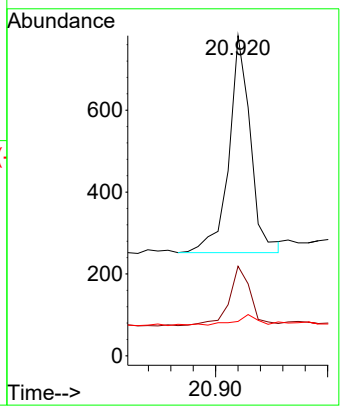


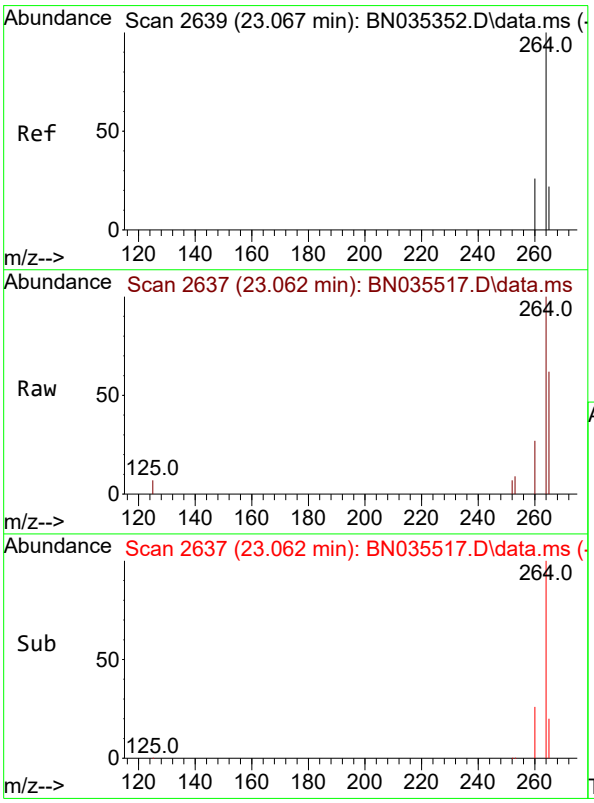
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.067 ng
RT: 20.920 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206

Tgt Ion:149 Resp: 708

Ion	Ratio	Lower	Upper
149	100		
167	27.0	22.2	33.4
279	4.2	2.7	4.1#

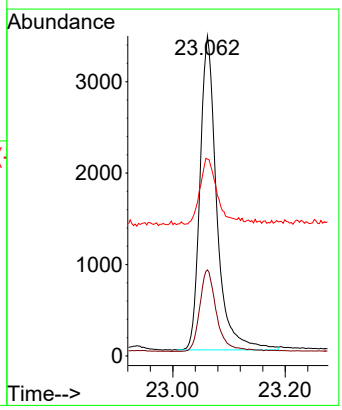




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2637
Delta R.T. -0.006 min
Lab File: BN035517.D
Acq: 09 Dec 2024 21:19

Tgt Ion:264 Resp: 7094

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	61.5	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035518.D
Acq On : 09 Dec 2024 21:55
Operator : RC/JU
Sample : P5166-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Quant Time: Dec 10 01:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1759	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4808	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3560	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8364	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7094	0.400	ng	0.00
35) Perylene-d12	23.059	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	550	0.125	ng	-0.01
5) Phenol-d6	6.506	99	364	0.069	ng	0.00
8) Nitrobenzene-d5	8.429	82	1306	0.445	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2817	0.374	ng	-0.01
14) 2,4,6-Tribromophenol	15.475	330	645	0.255	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	4894	0.364	ng	-0.01
27) Fluoranthene-d10	18.775	212	10435	0.440	ng	0.00
31) Terphenyl-d14	19.403	244	9233	0.660	ng	0.00
Target Compounds						Qvalue
33) Chrysene	21.001	228	547	0.021	ng	# 84
34) Bis(2-ethylhexyl)phtha...	20.920	149	676	0.069	ng	# 96
37) Benzo(b)fluoranthene	22.448	252	603	0.024	ng	# 10
38) Benzo(k)fluoranthene	22.489	252	532	0.022	ng	# 6

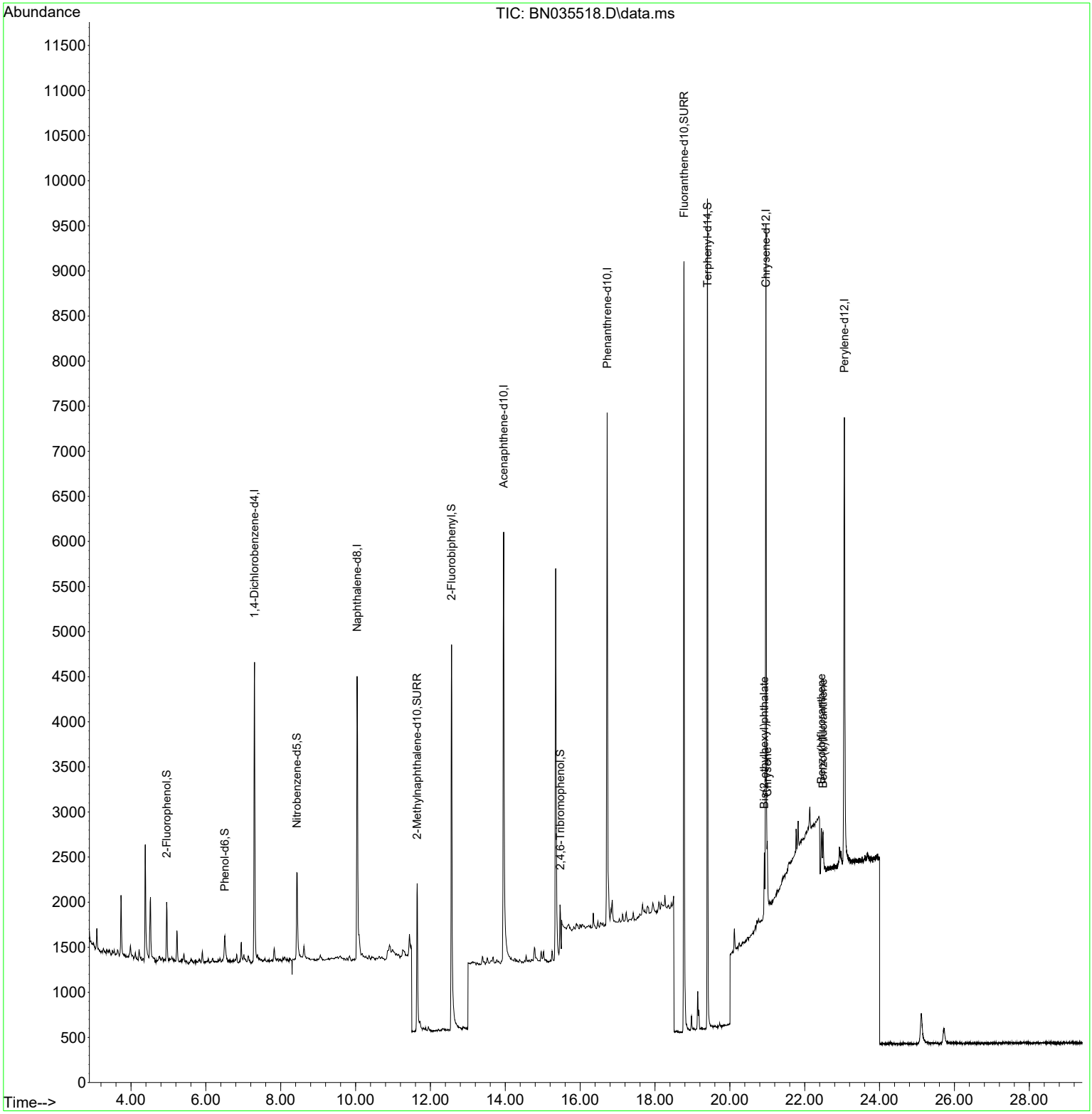
(#) = qualifier out of range (m) = manual integration (+) = signals summed

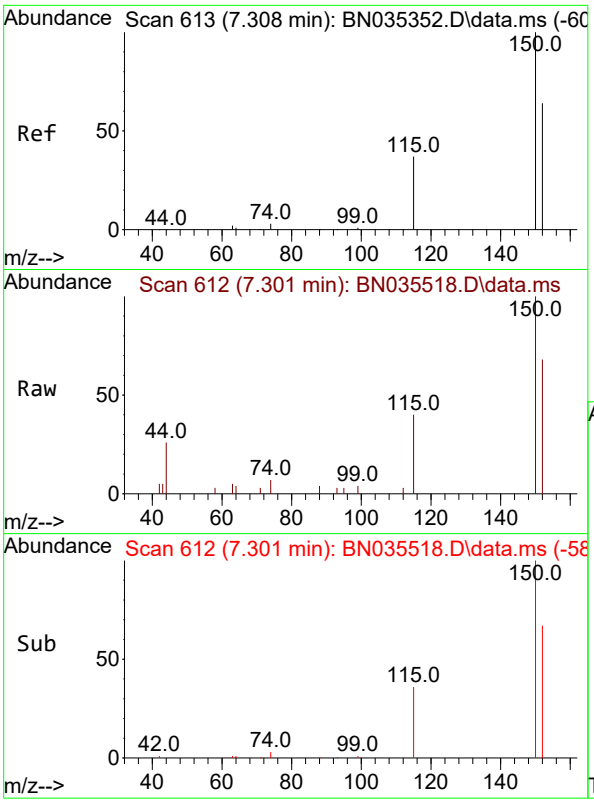
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035518.D
Acq On : 09 Dec 2024 21:55
Operator : RC/JU
Sample : P5166-05
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Quant Time: Dec 10 01:28:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



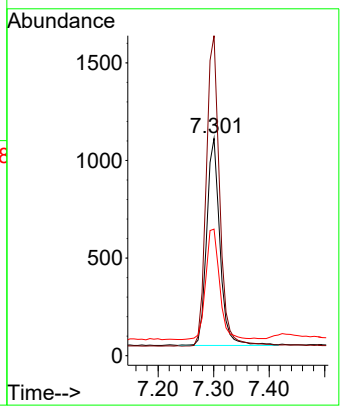


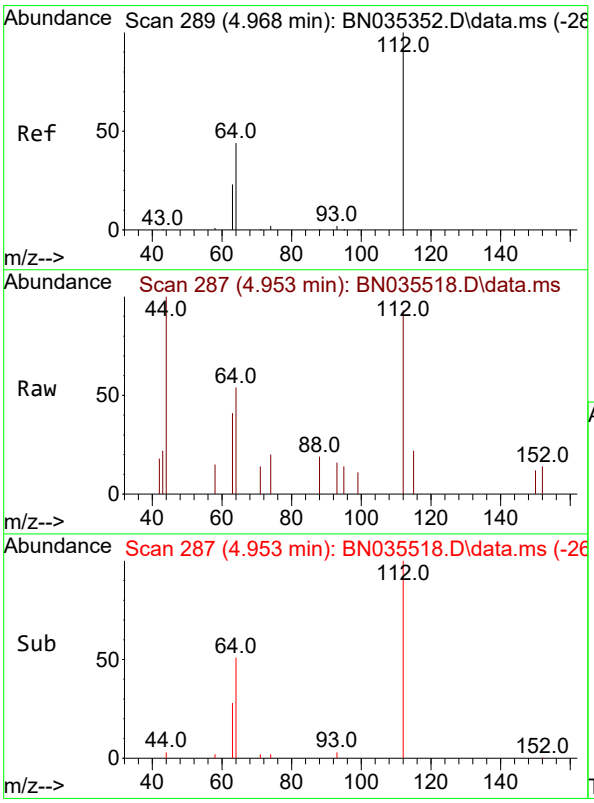
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:152 Resp: 1759

Ion	Ratio	Lower	Upper
152	100		
150	147.3	124.0	186.0
115	58.2	49.6	74.4

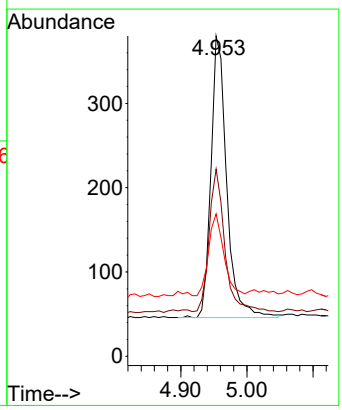


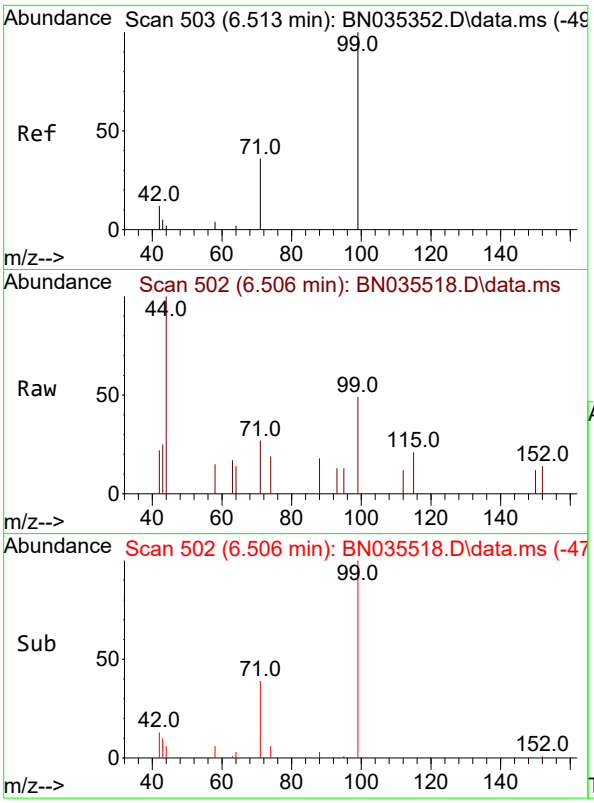


#4
2-Fluorophenol
Concen: 0.125 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:112 Resp: 550

Ion	Ratio	Lower	Upper
112	100		
64	50.7	39.8	59.8
63	29.3	21.0	31.6



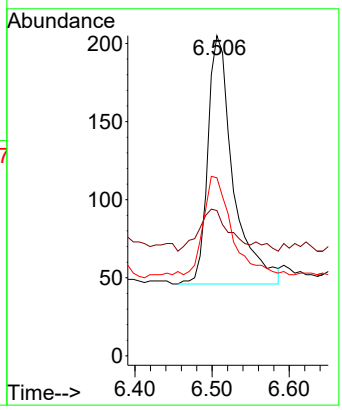


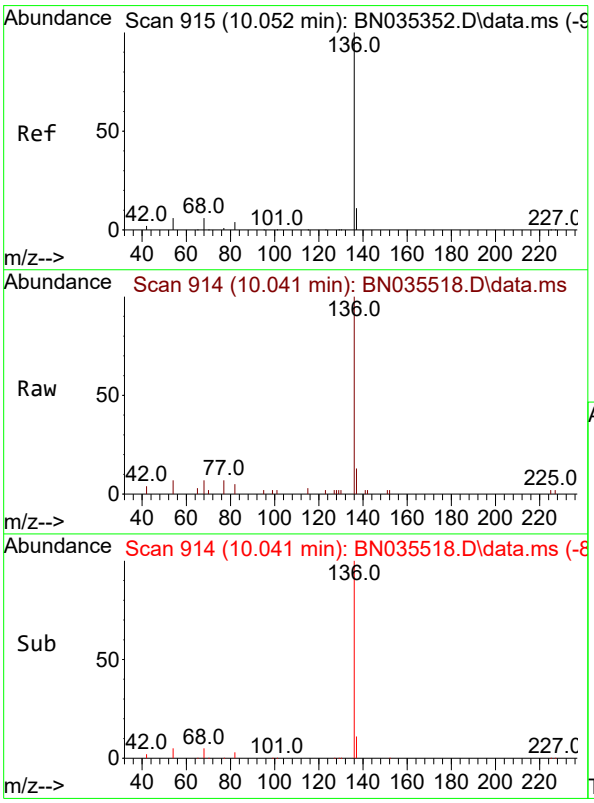
#5
Phenol-d6
Concen: 0.069 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion: 99 Resp: 364

Ion	Ratio	Lower	Upper
99	100		
42	19.8	11.4	17.2#
71	49.7	29.3	43.9#

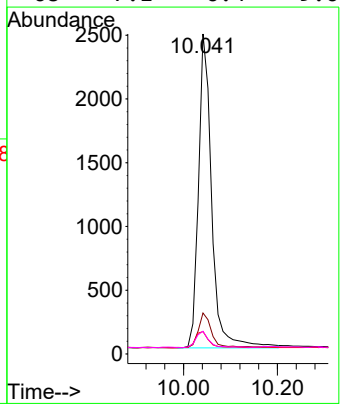


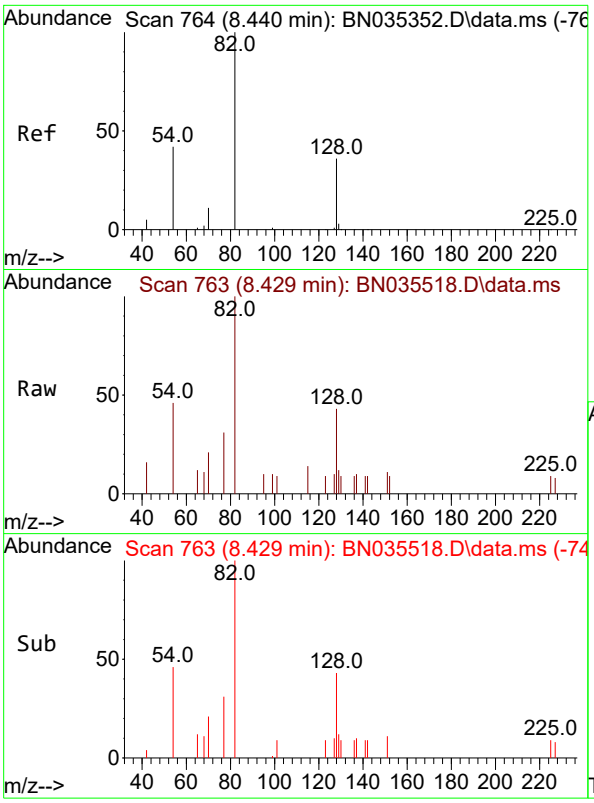


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 914
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:136 Resp: 4808

Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.0	6.1	9.1
68	7.1	6.4	9.6



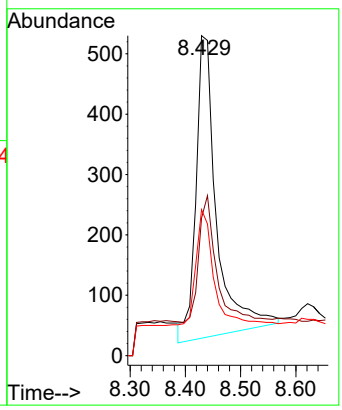


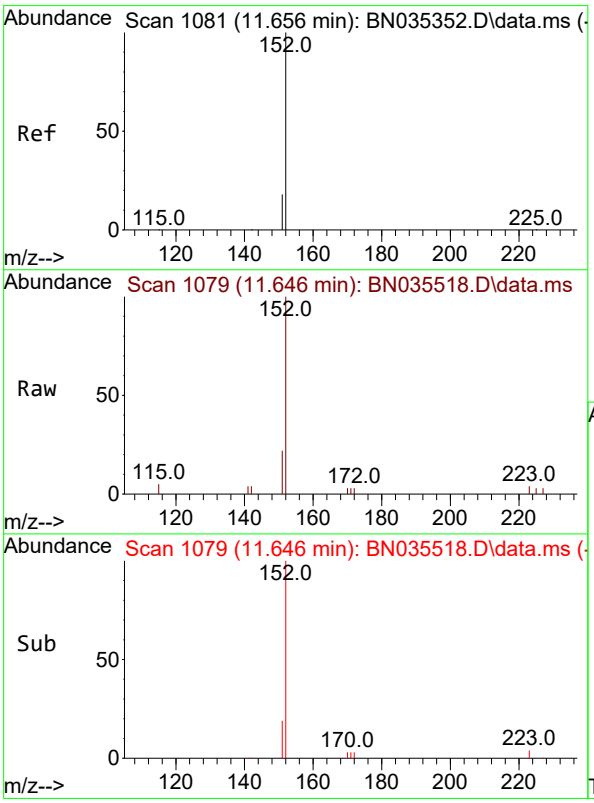
#8
Nitrobenzene-d5
Concen: 0.445 ng
RT: 8.429 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion: 82 Resp: 1306

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.4	50.0
54	45.7	36.7	55.1

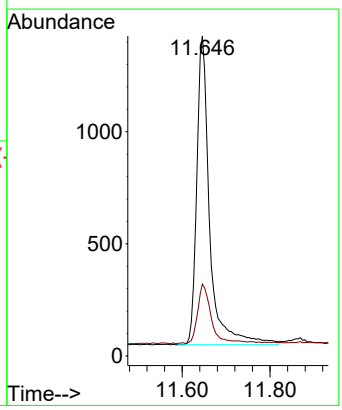


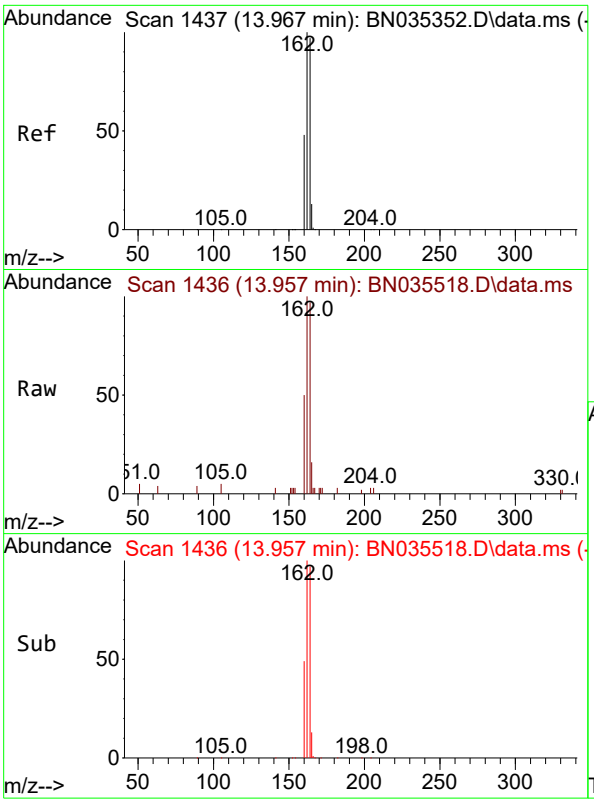


#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.646 min Scan# 1079
Delta R.T. -0.010 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:152 Resp: 2817

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	25.0



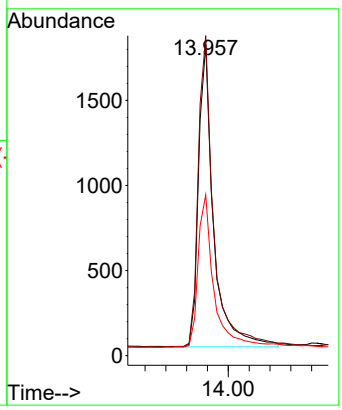


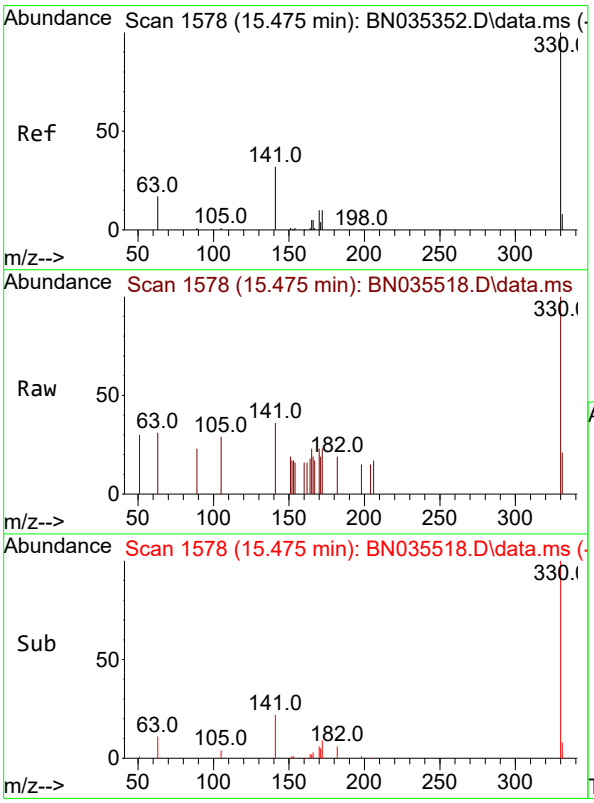
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:164 Resp: 3560

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.2	123.2
160	51.7	40.1	60.1

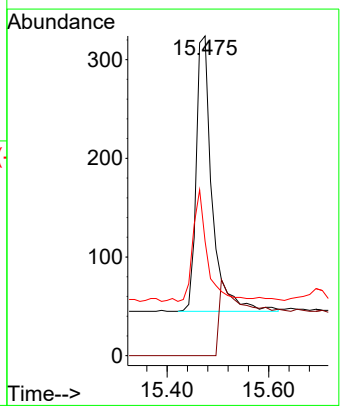


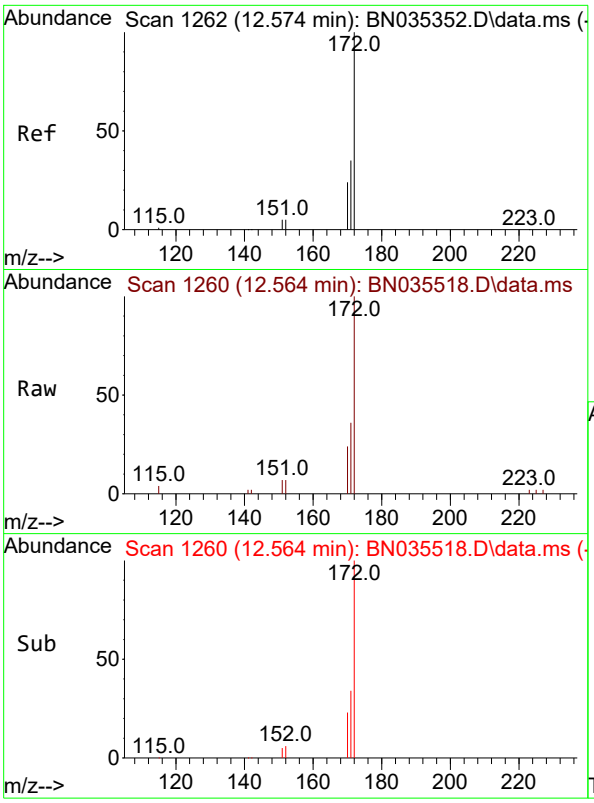


#14
2,4,6-Tribromophenol
Concen: 0.255 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:330 Resp: 645

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	36.0	26.6	40.0



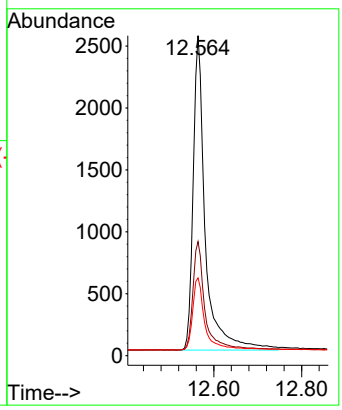


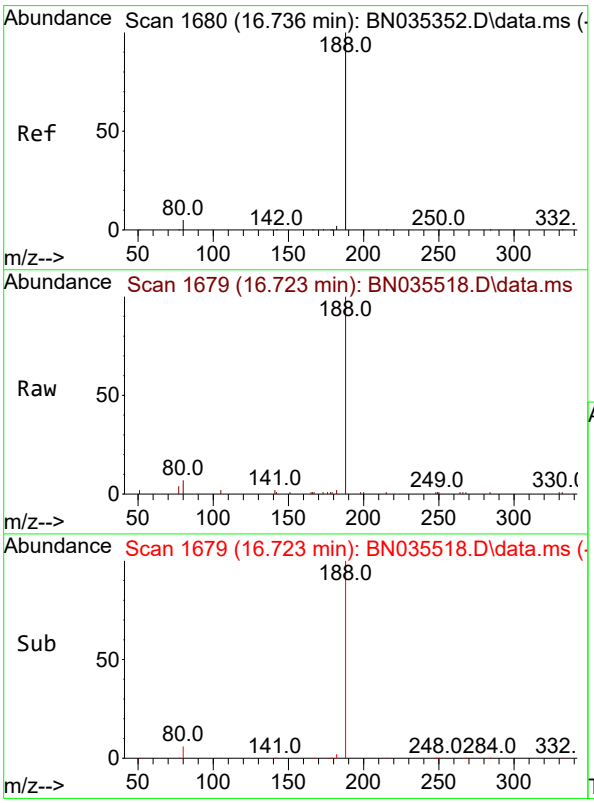
#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:172 Resp: 4894

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	24.3	19.8	29.8

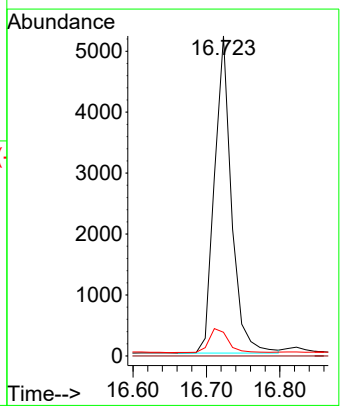


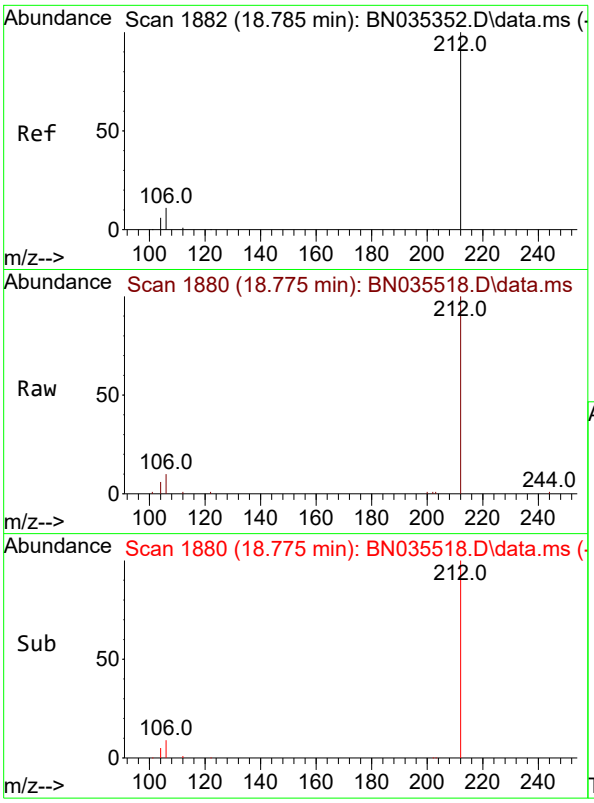


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:188 Resp: 8364

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.4	4.6	6.8#



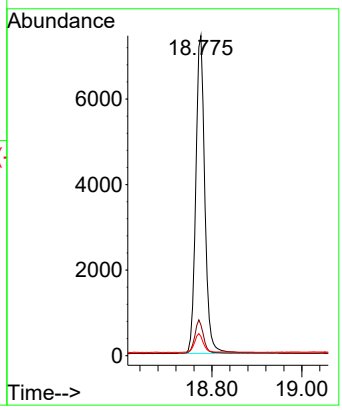


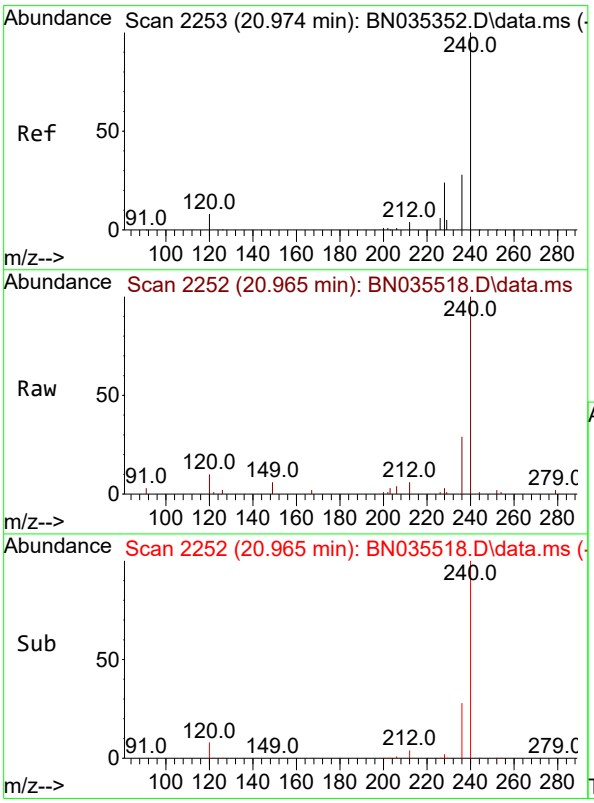
#27
Fluoranthene-d10
Concen: 0.440 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:212 Resp: 10435

Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.2	13.8
104	5.8	5.3	7.9

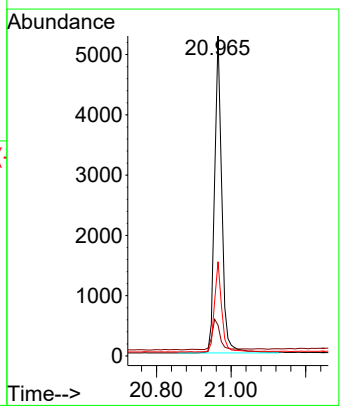


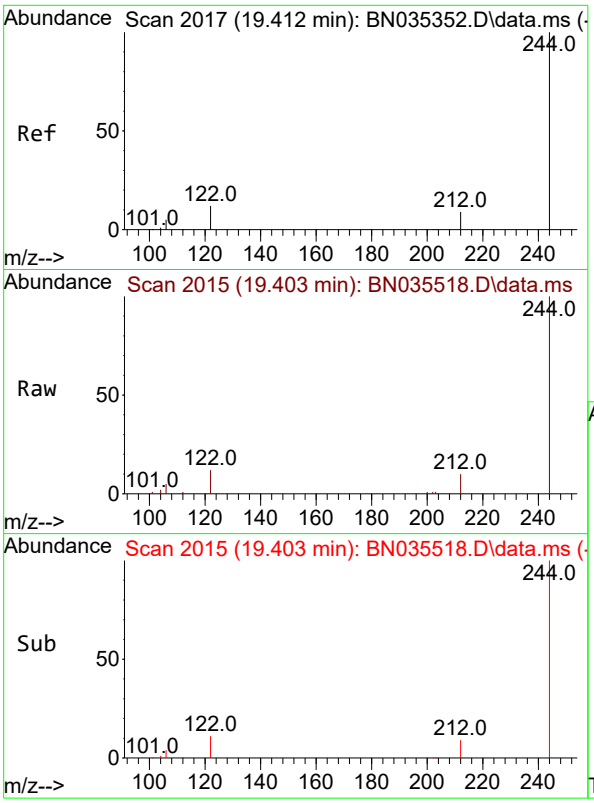


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2252
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:240 Resp: 7094

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	29.5	22.9	34.3



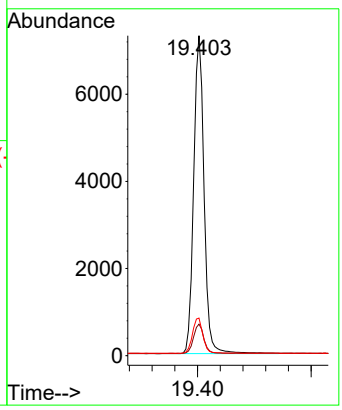


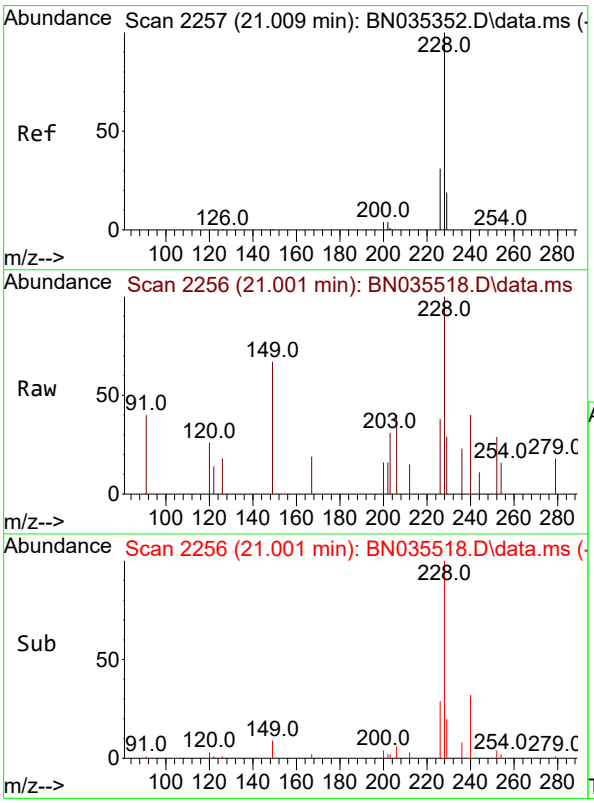
#31
Terphenyl-d14
Concen: 0.660 ng
RT: 19.403 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:244 Resp: 9233

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	11.8	10.3	15.5

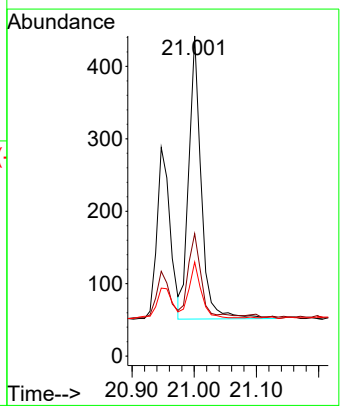


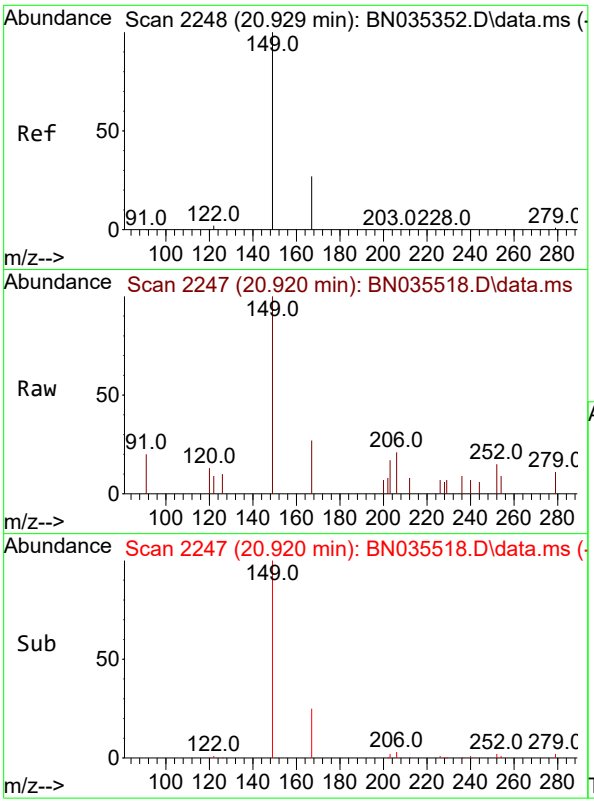


#33
Chrysene
Concen: 0.021 ng
RT: 21.001 min Scan# 2256
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:228 Resp: 547

Ion	Ratio	Lower	Upper
228	100		
226	38.2	24.6	37.0#
229	29.4	15.9	23.9#



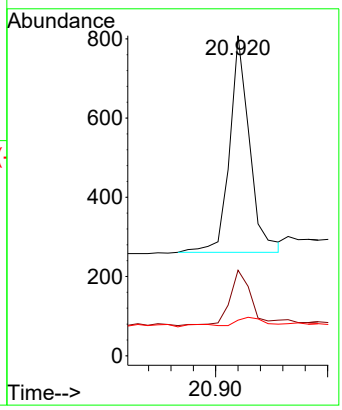


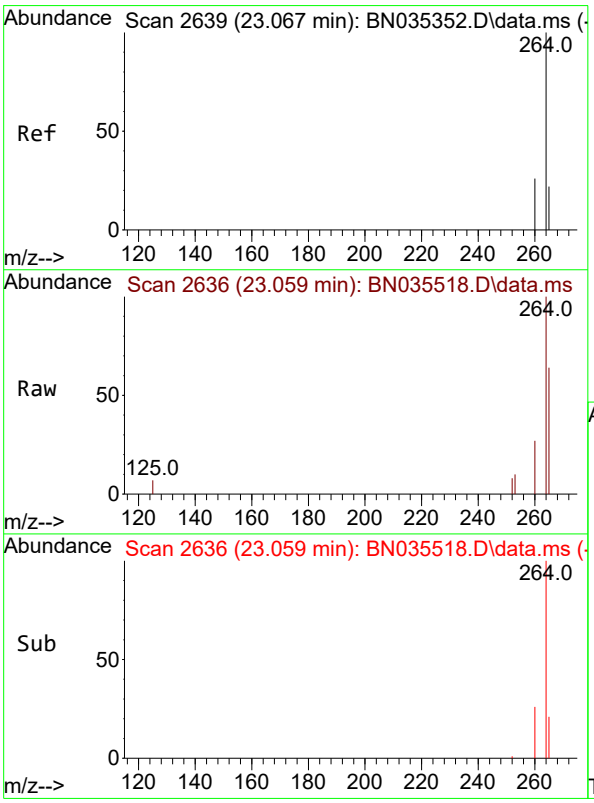
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 20.920 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:149 Resp: 676

Ion	Ratio	Lower	Upper
149	100		
167	29.9	22.2	33.4
279	4.9	2.7	4.1#

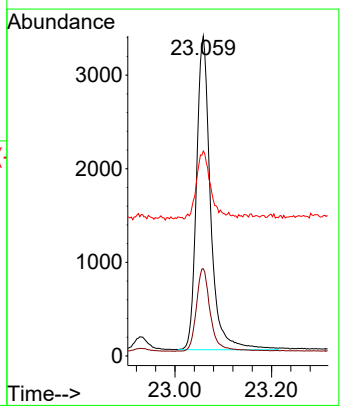


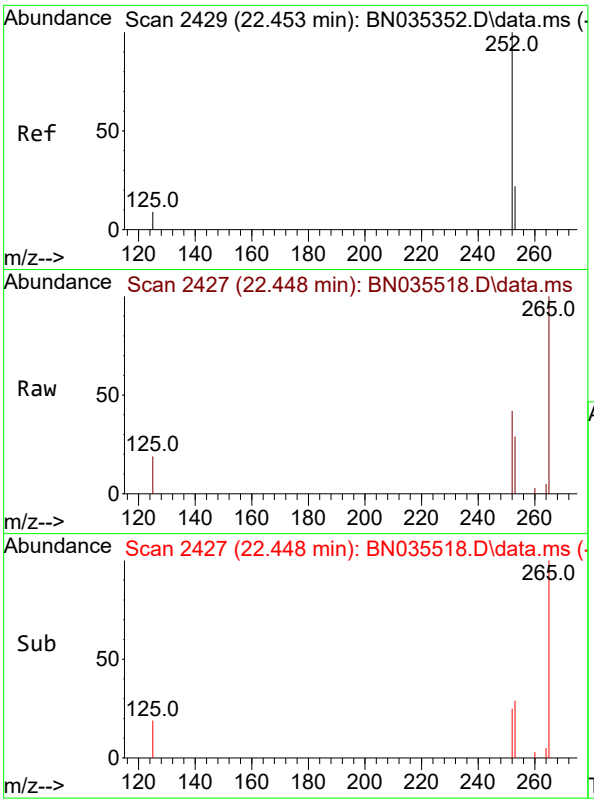


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2636
Delta R.T. -0.009 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	64.0	40.2	60.4#



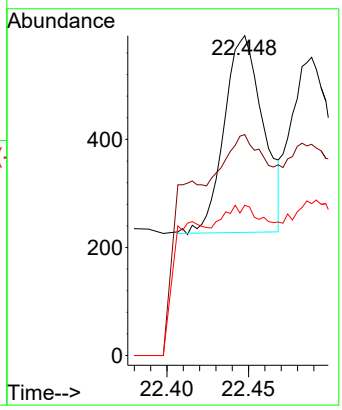


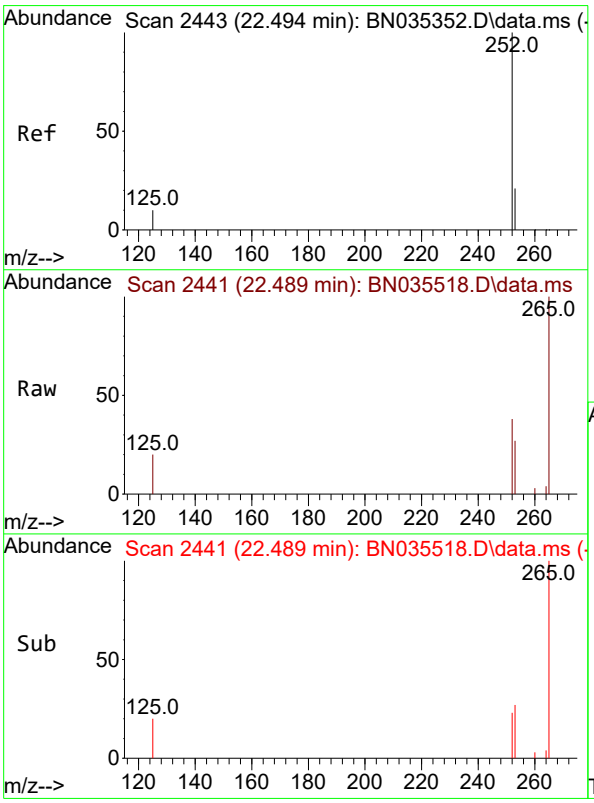
#37
Benzo(b)fluoranthene
Concen: 0.024 ng
RT: 22.448 min Scan# 24
Delta R.T. -0.006 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20241206

Tgt Ion:252 Resp: 603

Ion	Ratio	Lower	Upper
252	100		
253	69.1	19.6	29.4#
125	47.0	9.6	14.4#

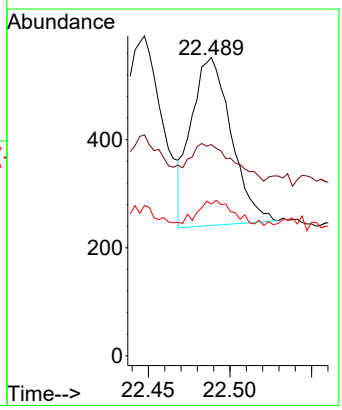




#38
Benzo(k)fluoranthene
Concen: 0.022 ng
RT: 22.489 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035518.D
Acq: 09 Dec 2024 21:55

Tgt Ion:252 Resp: 532

Ion	Ratio	Lower	Upper
252	100		
253	70.8	19.5	29.3#
125	50.9	10.2	15.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035519.D
Acq On : 09 Dec 2024 22:31
Operator : RC/JU
Sample : P5166-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Quant Time: Dec 10 01:28:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1257	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	3408	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	2615	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	6478	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	5571	0.400	ng	0.00
35) Perylene-d12	23.065	264	5305	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	493	0.157	ng	-0.01
5) Phenol-d6	6.506	99	336	0.089	ng	0.00
8) Nitrobenzene-d5	8.440	82	1124	0.540	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2396	0.449	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	543	0.293	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	4078	0.413	ng	0.00
27) Fluoranthene-d10	18.775	212	9482	0.516	ng	0.00
31) Terphenyl-d14	19.403	244	8094	0.737	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	56	0.047	ng	# 54
34) Bis(2-ethylhexyl)phtha...	20.929	149	808	0.105	ng	# 98

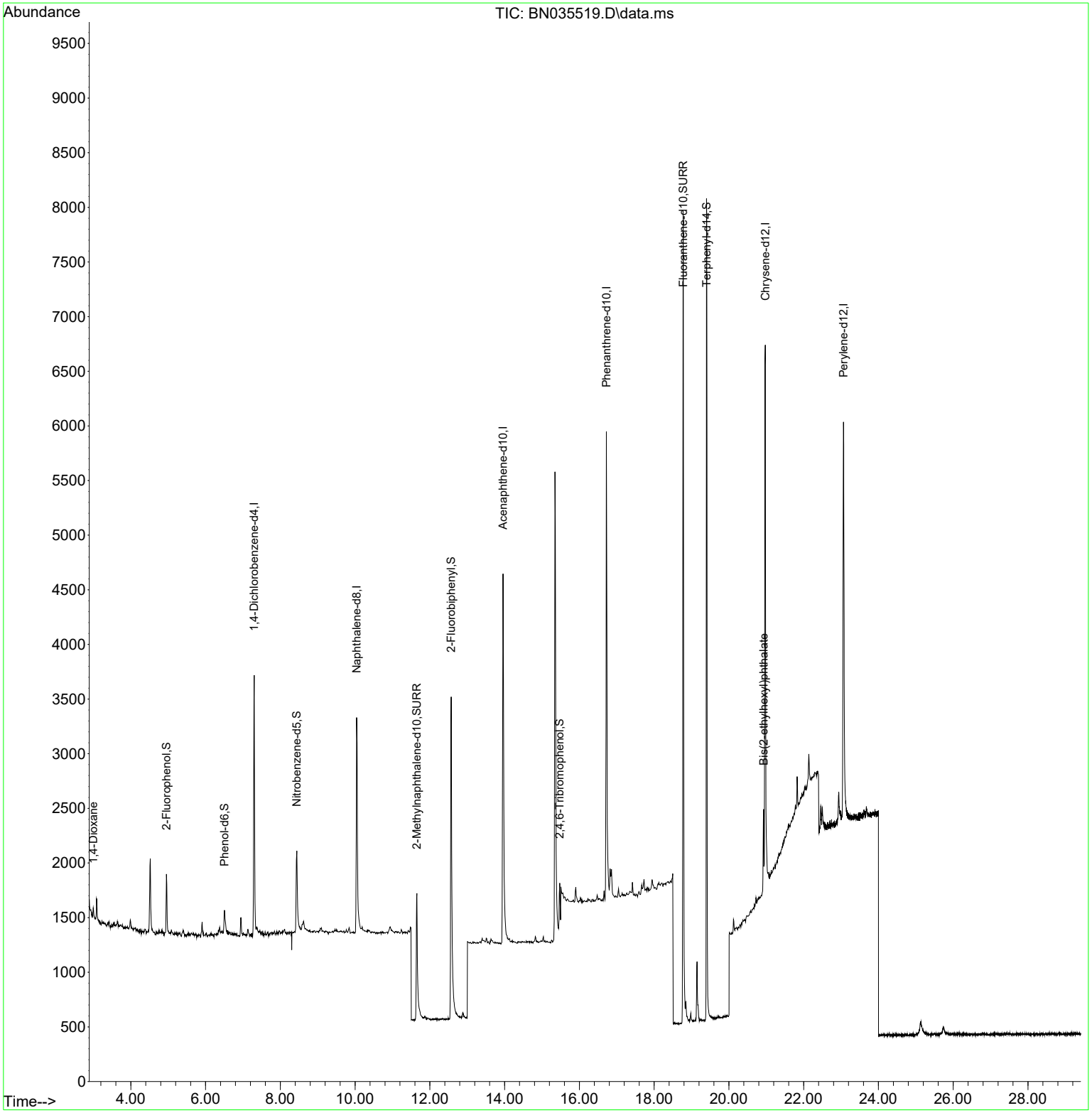
(#) = qualifier out of range (m) = manual integration (+) = signals summed

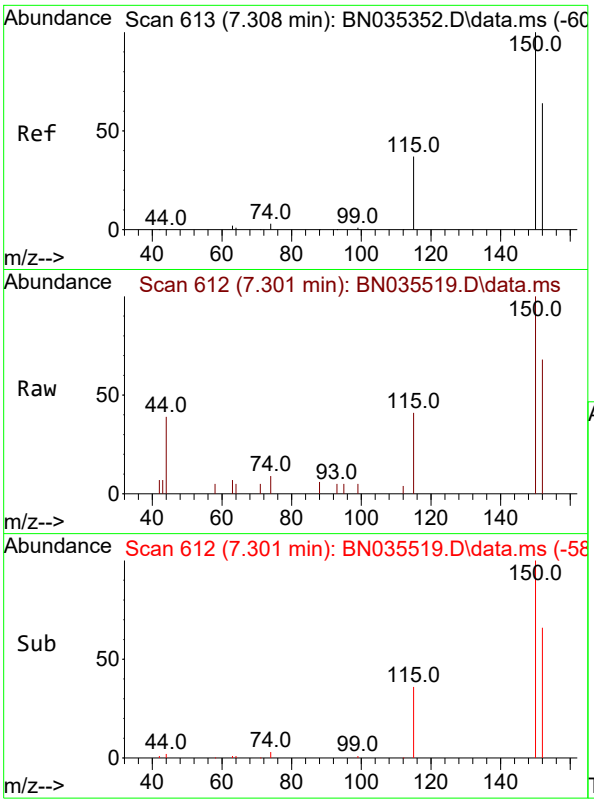
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035519.D
Acq On : 09 Dec 2024 22:31
Operator : RC/JU
Sample : P5166-06
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Quant Time: Dec 10 01:28:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



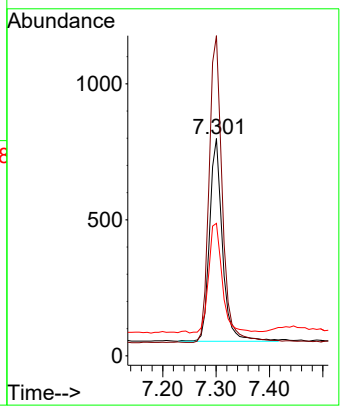


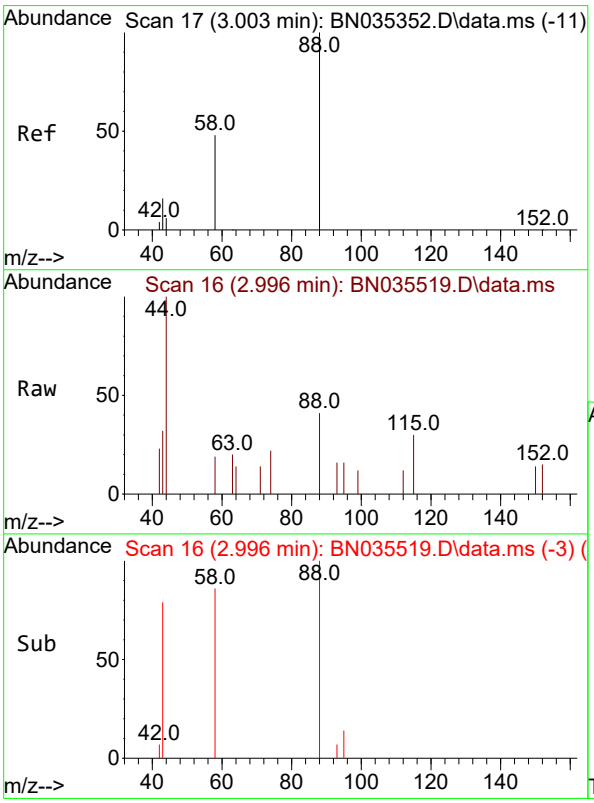
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:152 Resp: 1257

Ion	Ratio	Lower	Upper
152	100		
150	147.3	124.0	186.0
115	61.0	49.6	74.4

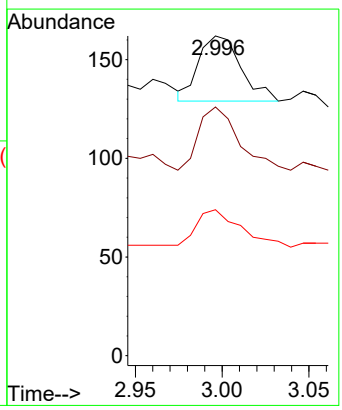


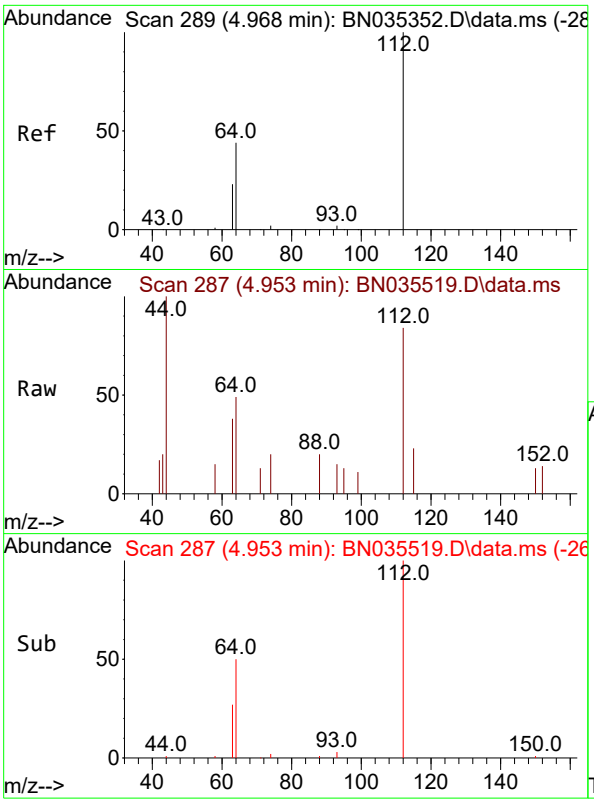


#2
1,4-Dioxane
Concen: 0.047 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion: 88 Resp: 56

Ion	Ratio	Lower	Upper
88	100		
43	91.1	17.2	25.8#
58	60.7	44.5	66.7



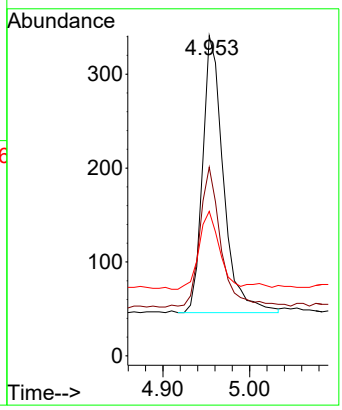


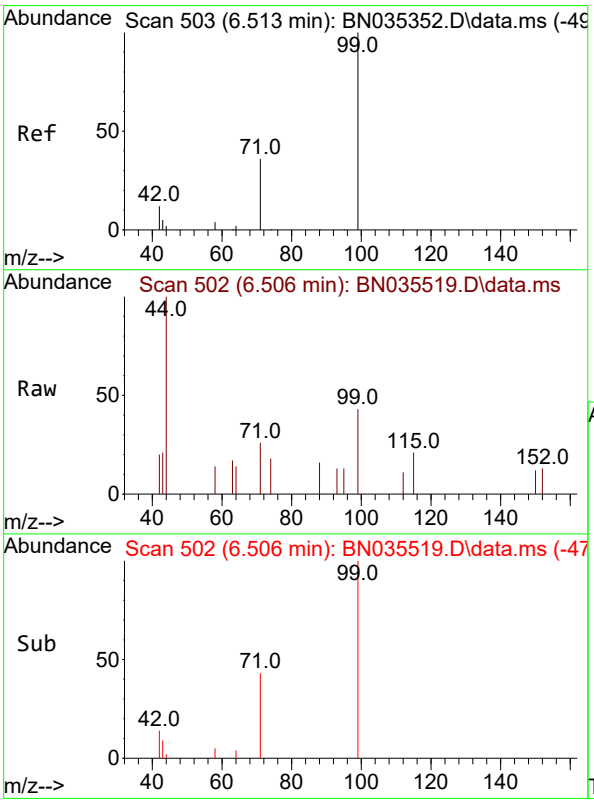
#4
2-Fluorophenol
Concen: 0.157 ng
RT: 4.953 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:112 Resp: 493

Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	27.4	21.0	31.6

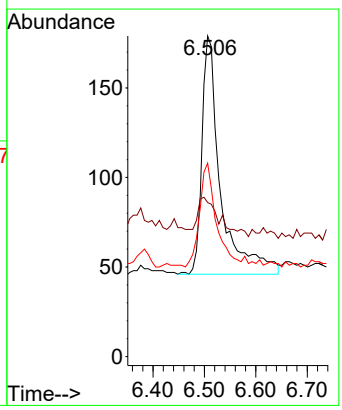


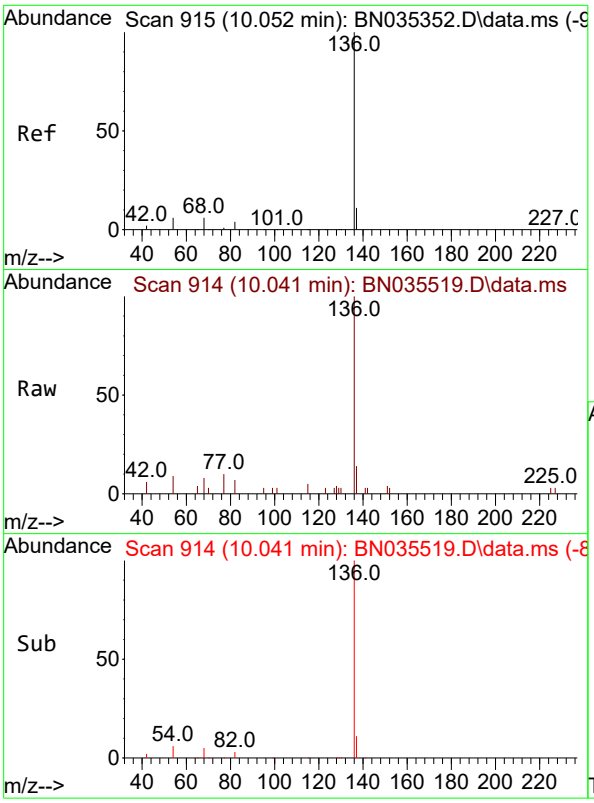


#5
Phenol-d6
Concen: 0.089 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion: 99 Resp: 336

Ion	Ratio	Lower	Upper
99	100		
42	18.8	11.4	17.2#
71	39.3	29.3	43.9



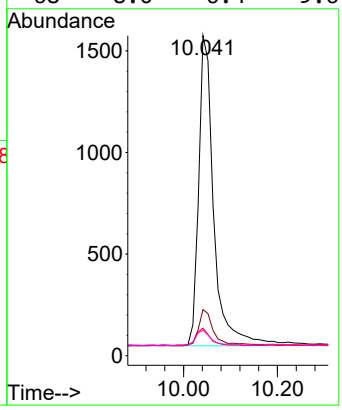


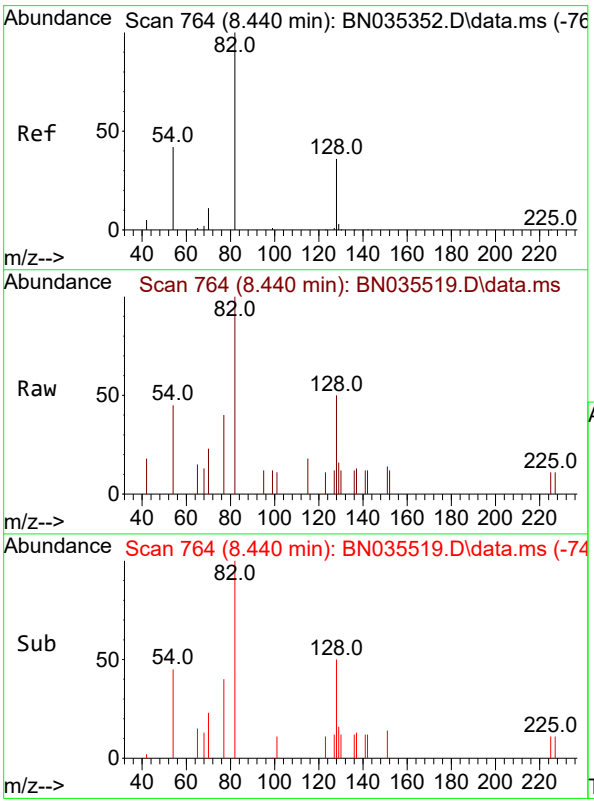
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:136 Resp: 3408

Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.2	15.2
54	8.6	6.1	9.1
68	8.0	6.4	9.6

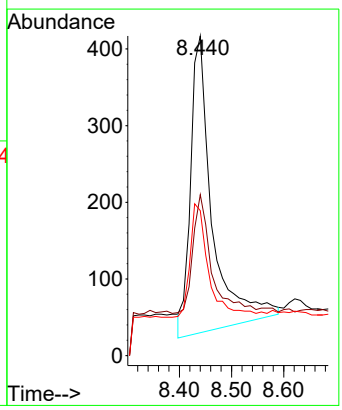


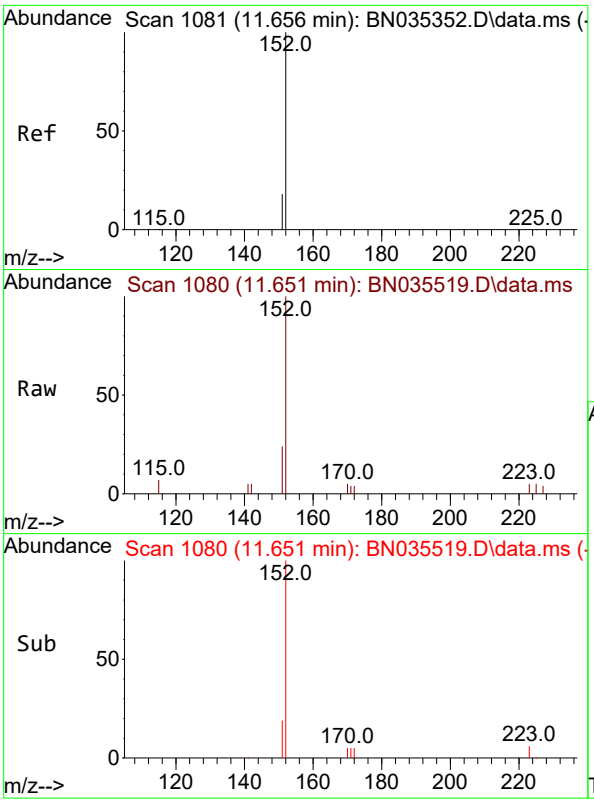


#8
Nitrobenzene-d5
Concen: 0.540 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion: 82 Resp: 1124

Ion	Ratio	Lower	Upper
82	100		
128	50.4	33.4	50.0#
54	45.3	36.7	55.1



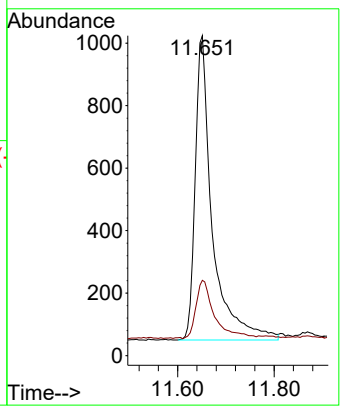


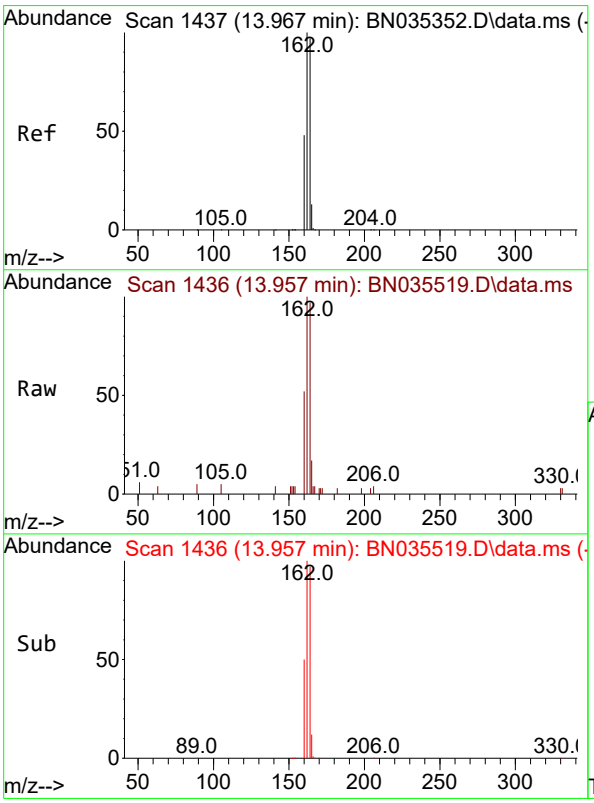
#11
2-Methylnaphthalene-d10
Concen: 0.449 ng
RT: 11.651 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:152 Resp: 2396

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

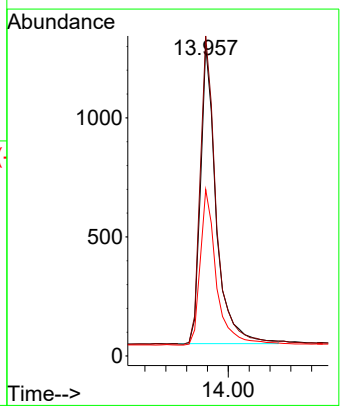


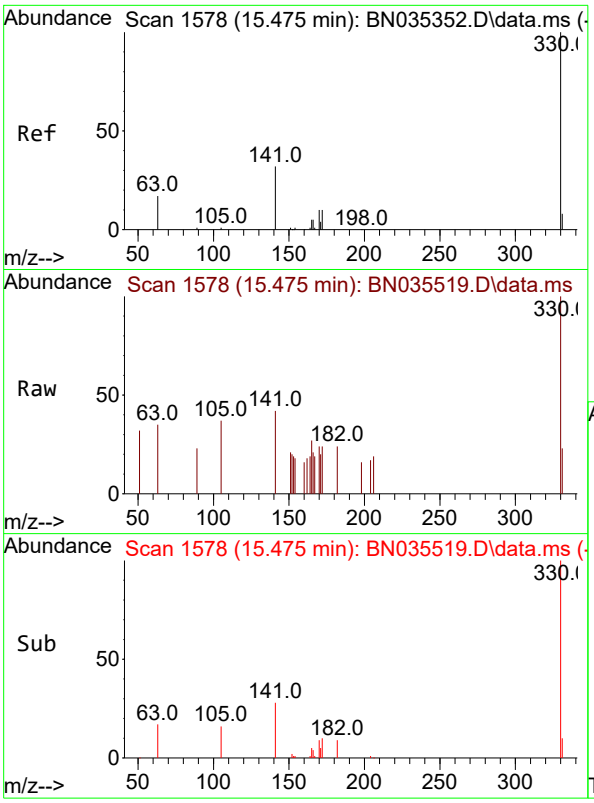


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:164 Resp: 2615

Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.2	123.2
160	53.6	40.1	60.1



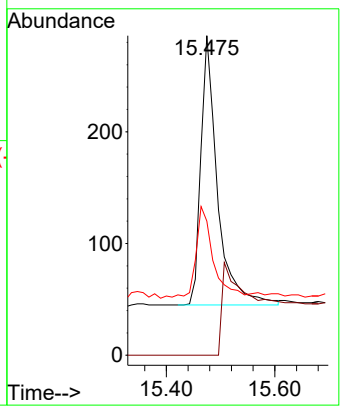


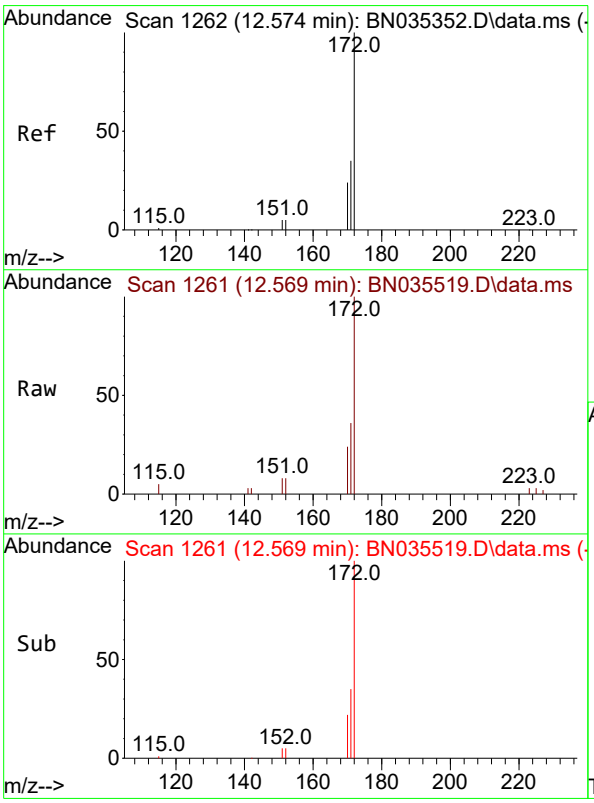
#14
2,4,6-Tribromophenol
Concen: 0.293 ng
RT: 15.475 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:330 Resp: 543

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.1	26.6	40.0

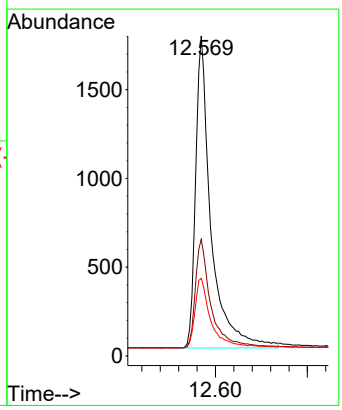


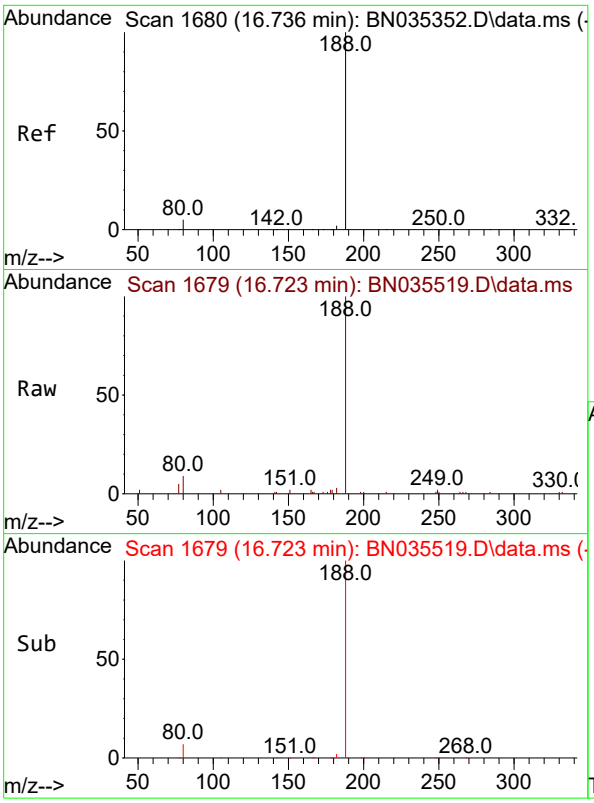


#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.569 min Scan# 1261
Delta R.T. -0.005 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:172 Resp: 4078

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.2	19.8	29.8



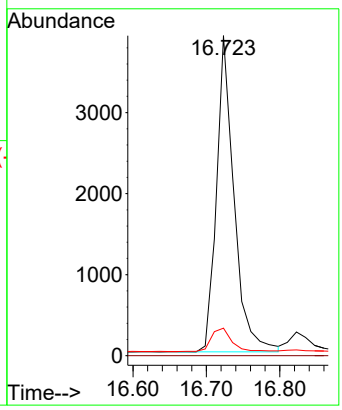


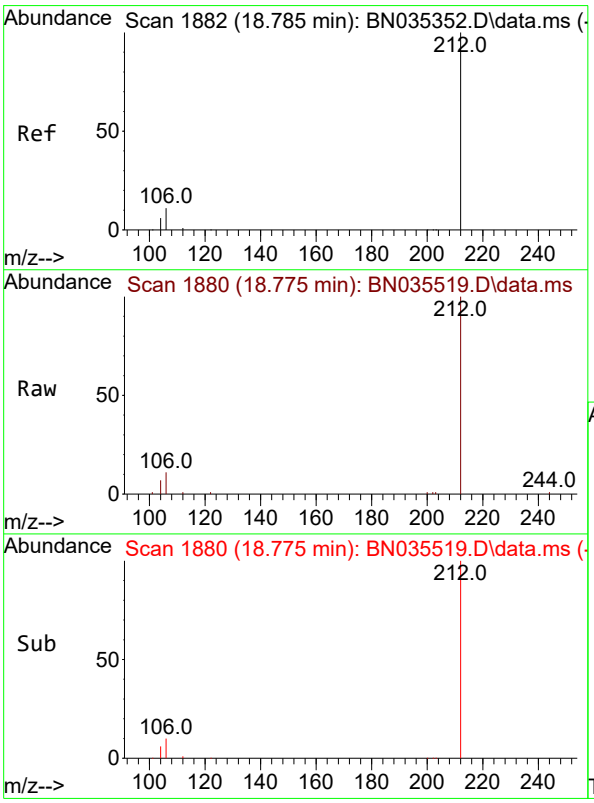
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:188 Resp: 6478

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	4.6	6.8#

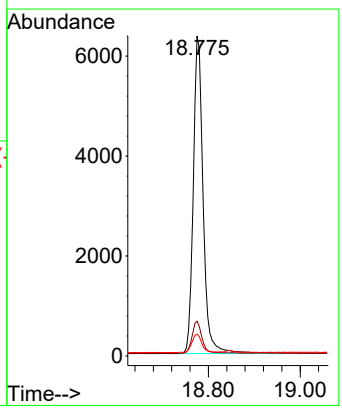


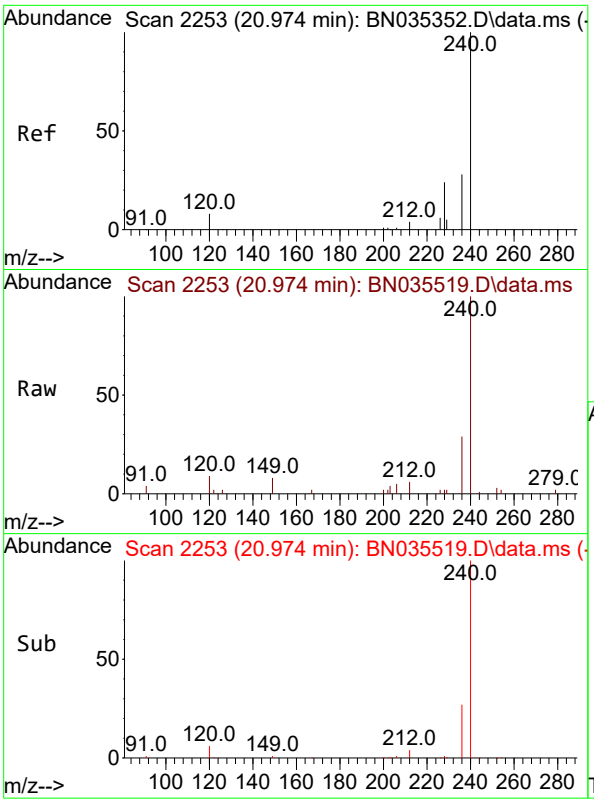


#27
Fluoranthene-d10
Concen: 0.516 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.009 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:212 Resp: 9482

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.8	5.3	7.9



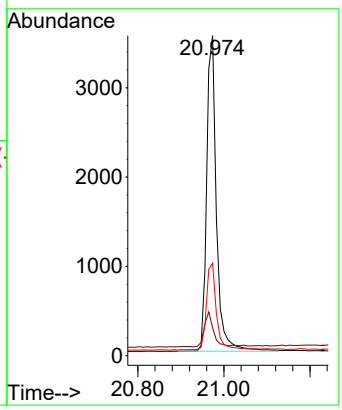


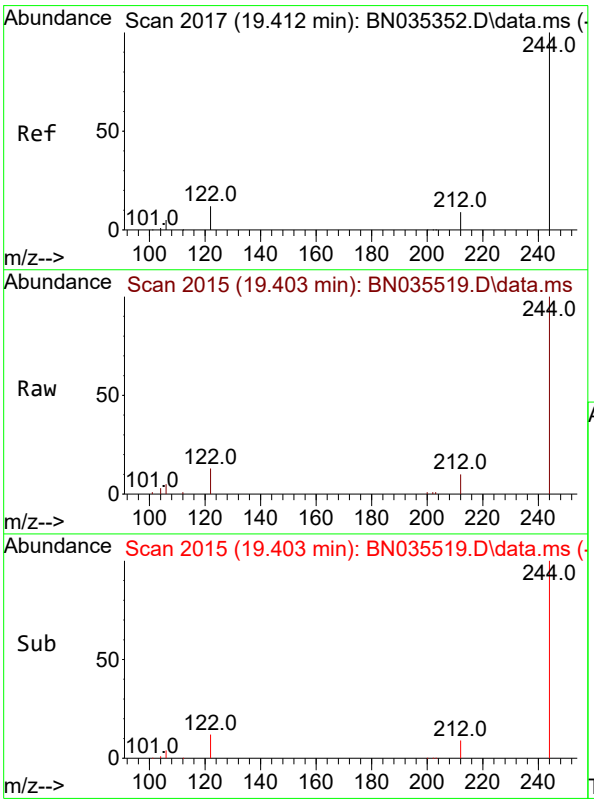
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:240 Resp: 5571

Ion	Ratio	Lower	Upper
240	100		
120	8.7	7.9	11.9
236	28.9	22.9	34.3

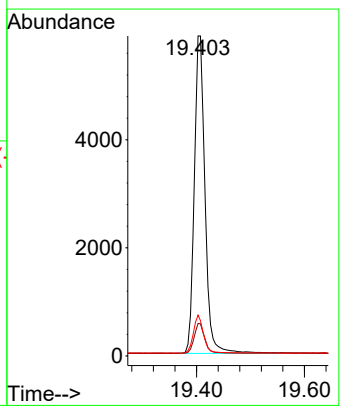


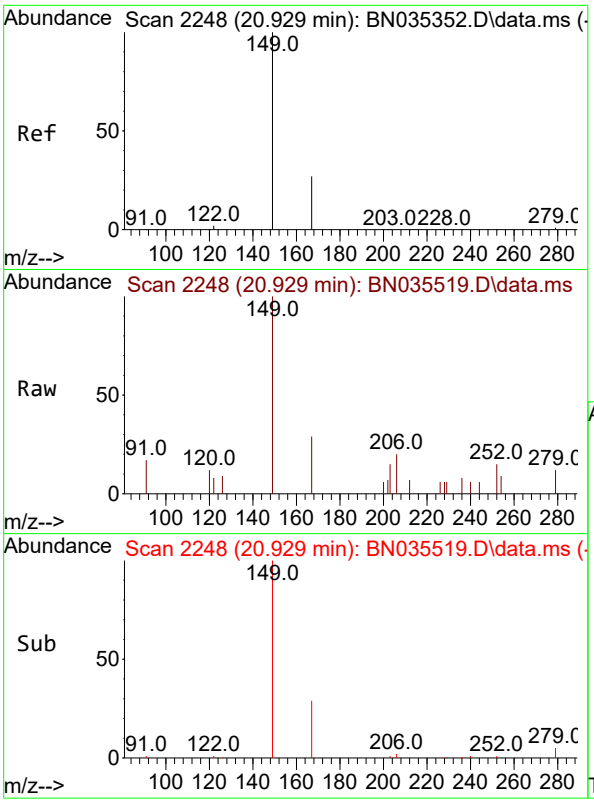


#31
Terphenyl-d14
Concen: 0.737 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.009 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:244 Resp: 8094

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.7	10.3	15.5



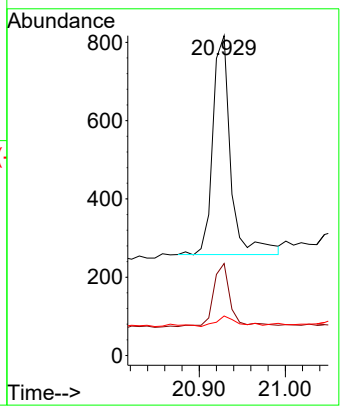


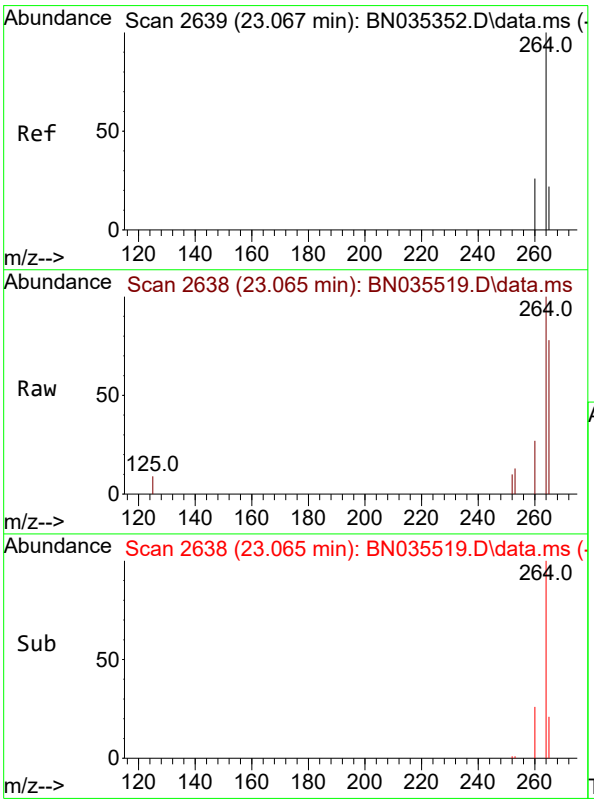
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.105 ng
RT: 20.929 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20241206

Tgt Ion:149 Resp: 808

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.2	33.4
279	5.7	2.7	4.1#

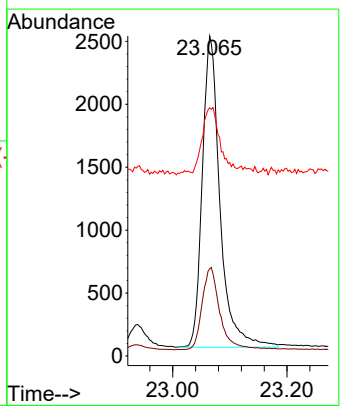




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.065 min Scan# 2638
Delta R.T. -0.003 min
Lab File: BN035519.D
Acq: 09 Dec 2024 22:31

Tgt Ion:264 Resp: 5305

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	77.5	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

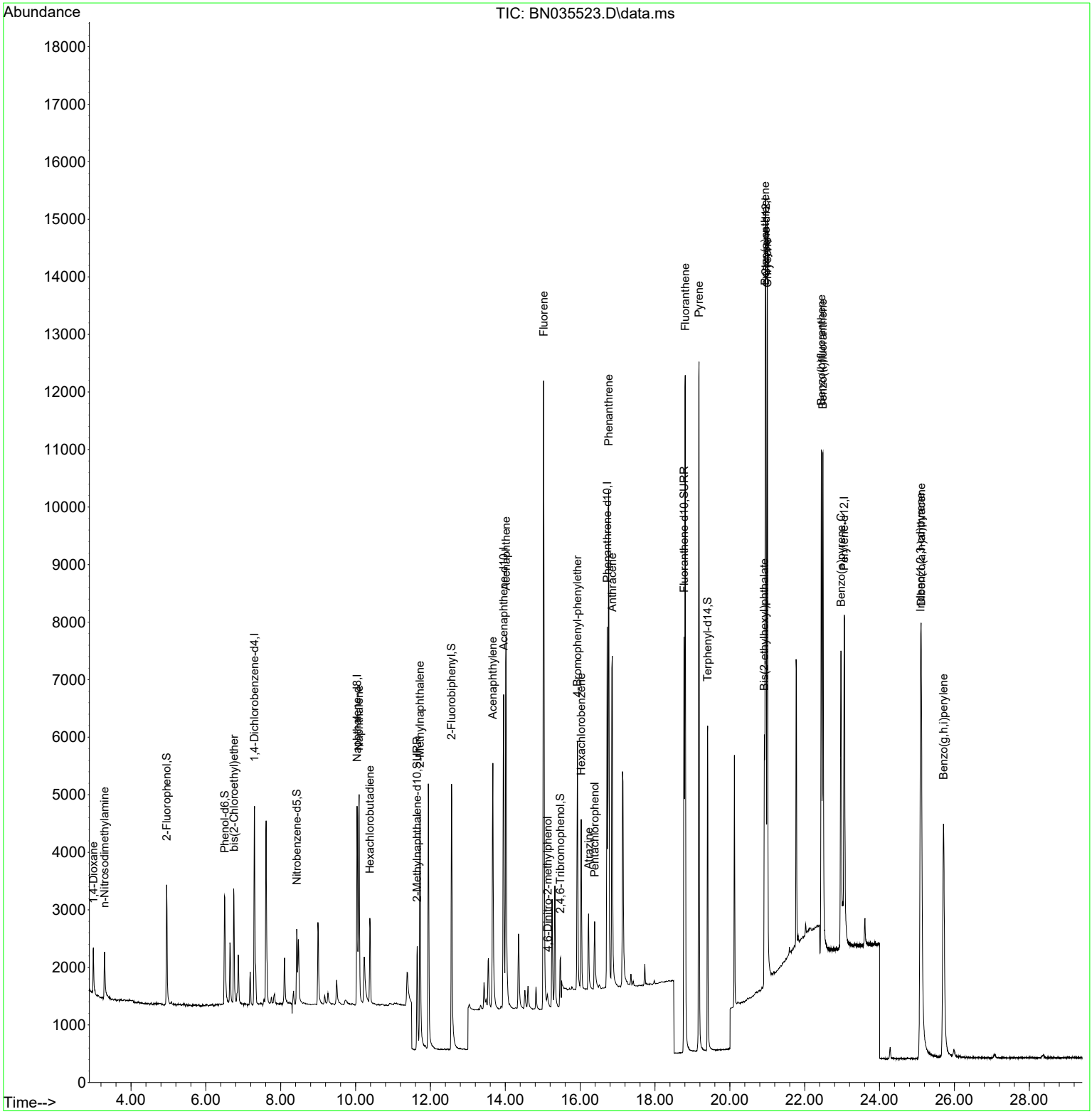
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.301	152	1809	0.400	ng		0.00
7) Naphthalene-d8	10.041	136	4948	0.400	ng		-0.01
13) Acenaphthene-d10	13.957	164	3762	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	8986	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	7813	0.400	ng		0.00
35) Perylene-d12	23.056	264	7976	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	1833	0.405	ng		-0.01
5) Phenol-d6	6.506	99	2256	0.414	ng		0.00
8) Nitrobenzene-d5	8.429	82	1491	0.493	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3094	0.400	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	1002	0.375	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	5445	0.383	ng		-0.01
27) Fluoranthene-d10	18.775	212	9035	0.355	ng		0.00
31) Terphenyl-d14	19.407	244	6345	0.412	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	698	0.404	ng		98
3) n-Nitrosodimethylamine	3.292	42	617	0.428	ng	#	95
6) bis(2-Chloroethyl)ether	6.752	93	1719	0.376	ng		100
9) Naphthalene	10.095	128	5071	0.389	ng		99
10) Hexachlorobutadiene	10.383	225	1254	0.417	ng	#	99
12) 2-Methylnaphthalene	11.722	142	3664	0.392	ng		99
16) Acenaphthylene	13.668	152	5848	0.370	ng		99
17) Acenaphthene	14.021	154	4030	0.384	ng		100
18) Fluorene	15.026	166	5811	0.387	ng		99
20) 4,6-Dinitro-2-methylph...	15.133	198	248	0.281	ng	#	70
21) 4-Bromophenyl-phenylether	15.929	248	2058	0.392	ng	#	87
22) Hexachlorobenzene	16.028	284	2505	0.406	ng		99
23) Atrazine	16.227	200	1338	0.358	ng		95
24) Pentachlorophenol	16.388	266	807	0.301	ng		88
25) Phenanthrene	16.760	178	9239	0.374	ng		100
26) Anthracene	16.860	178	8006	0.359	ng		100
28) Fluoranthene	18.808	202	11681	0.351	ng		99
30) Pyrene	19.175	202	11847	0.411	ng		100
32) Benzo(a)anthracene	20.947	228	9669	0.354	ng		99
33) Chrysene	21.001	228	11263	0.400	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4196	0.389	ng		99
36) Indeno(1,2,3-cd)pyrene	25.096	276	11338	0.364	ng		97
37) Benzo(b)fluoranthene	22.445	252	13396	0.459	ng		97
38) Benzo(k)fluoranthene	22.486	252	11357	0.395	ng		99
39) Benzo(a)pyrene	22.968	252	8586	0.357	ng		97
40) Dibenzo(a,h)anthracene	25.114	278	8605	0.350	ng		96
41) Benzo(g,h,i)perylene	25.708	276	9565	0.372	ng		99

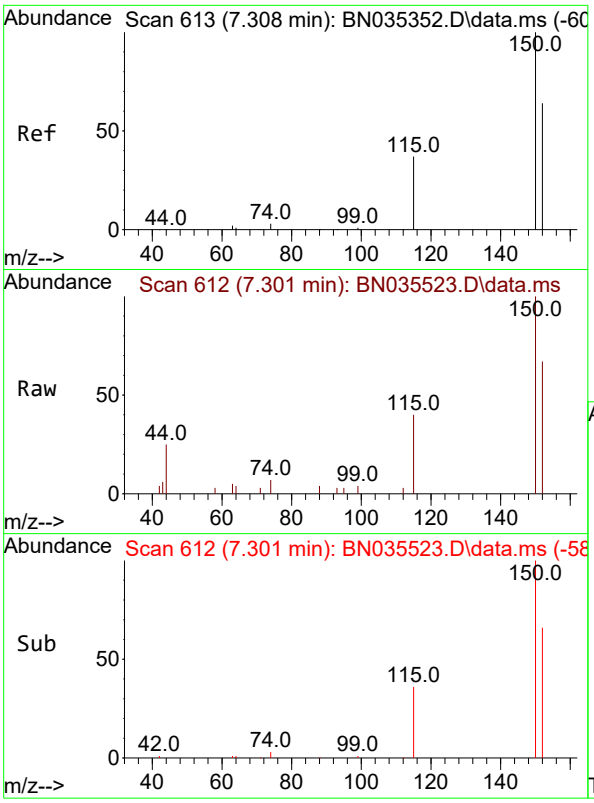
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035523.D
Acq On : 10 Dec 2024 00:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 10 01:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



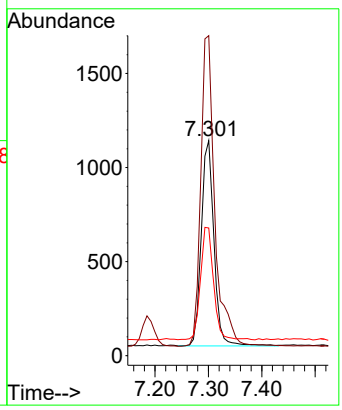


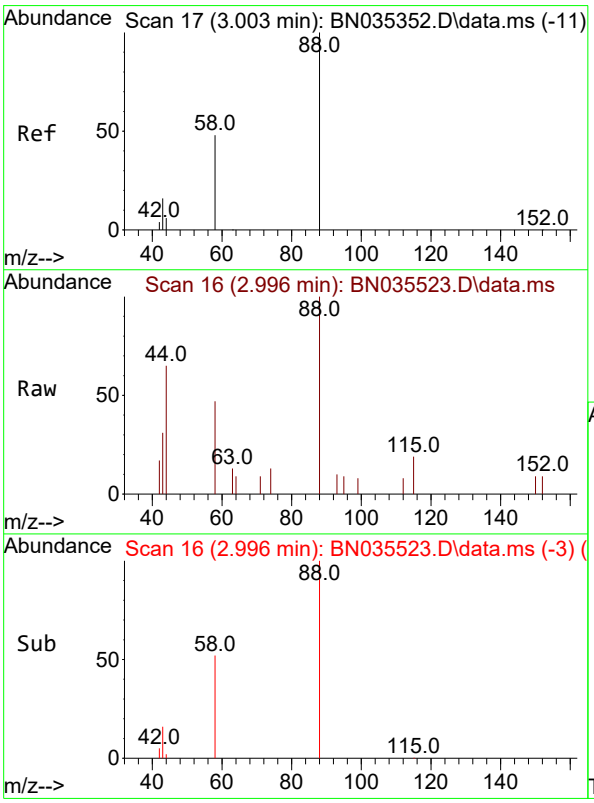
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1809

Ion	Ratio	Lower	Upper
152	100		
150	148.8	124.0	186.0
115	59.4	49.6	74.4

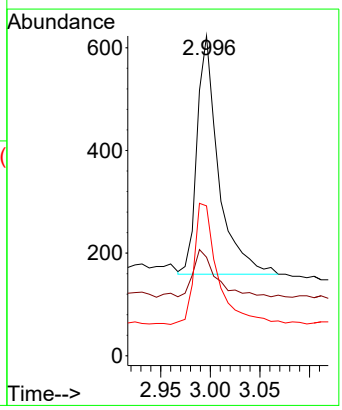


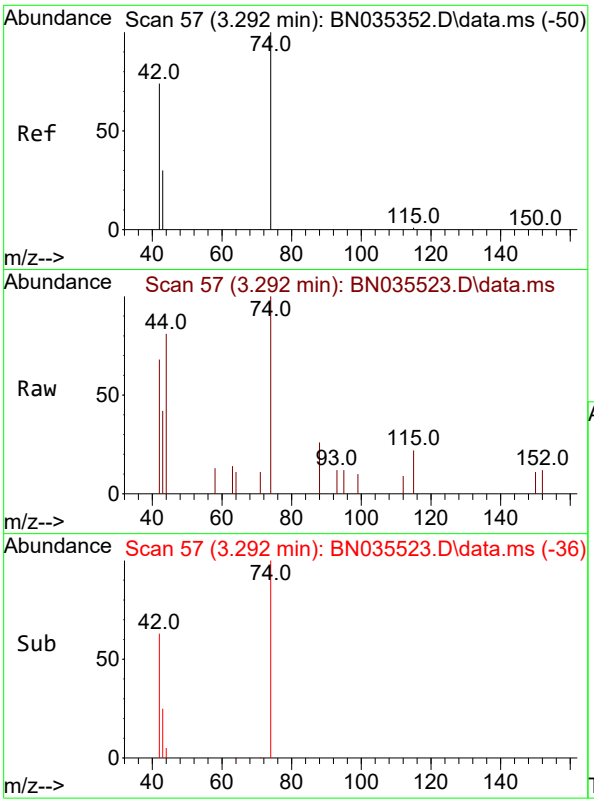


#2
1,4-Dioxane
Concen: 0.404 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 88 Resp: 698

Ion	Ratio	Lower	Upper
88	100		
43	22.5	17.2	25.8
58	54.0	44.5	66.7



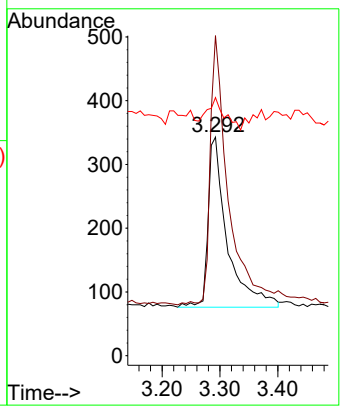


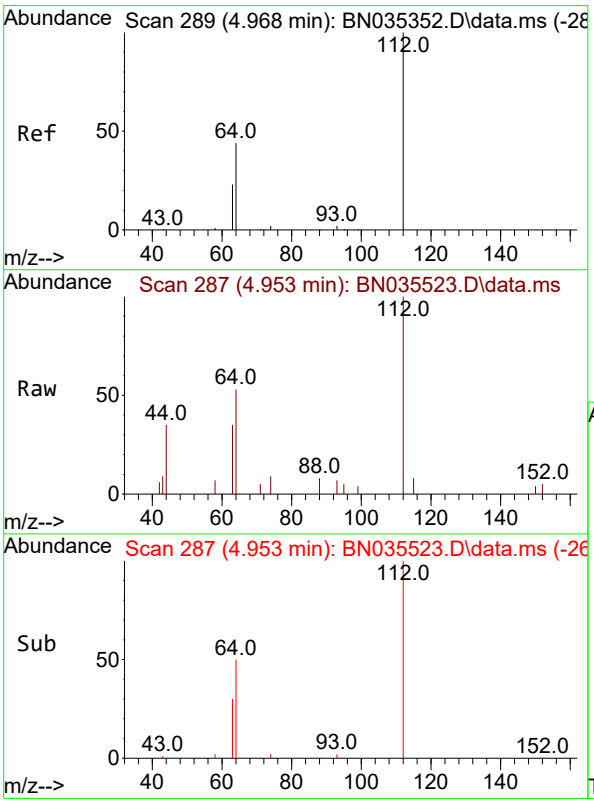
#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 617

Ion	Ratio	Lower	Upper
42	100		
74	150.1	124.9	187.3
44	17.0	2.2	3.4#

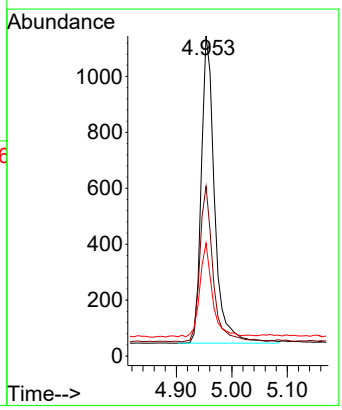


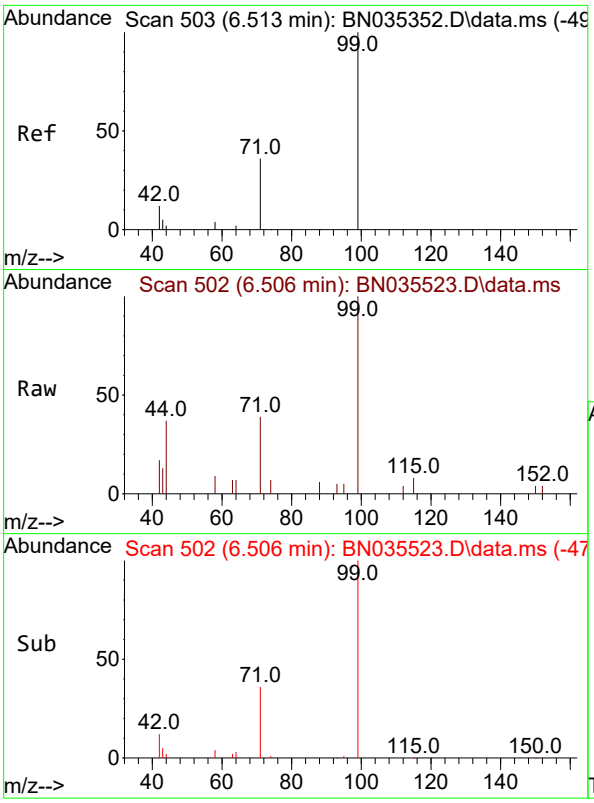


#4
2-Fluorophenol
Concen: 0.405 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:112 Resp: 1833

Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.8	59.8
63	28.5	21.0	31.6



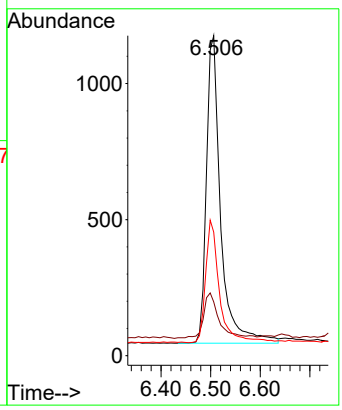


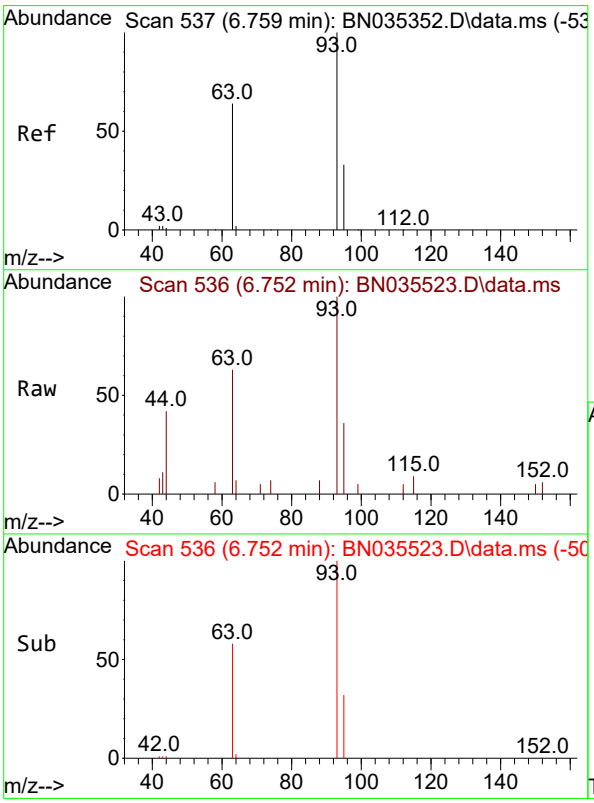
#5
Phenol-d6
Concen: 0.414 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 2256

Ion	Ratio	Lower	Upper
99	100		
42	16.2	11.4	17.2
71	39.1	29.3	43.9

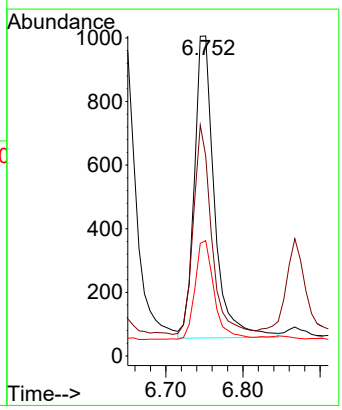


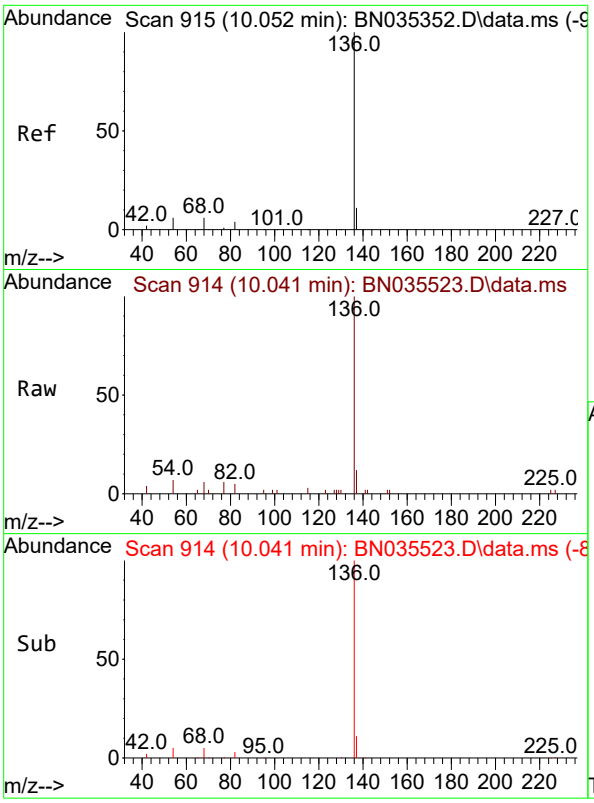


#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 93 Resp: 1719

Ion	Ratio	Lower	Upper
93	100		
63	62.8	50.4	75.6
95	31.6	25.7	38.5



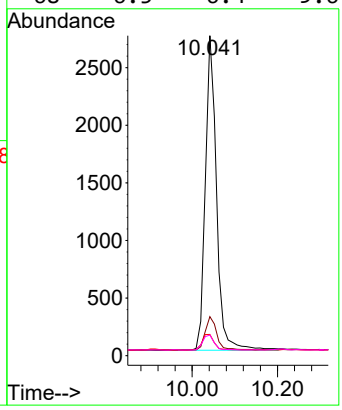


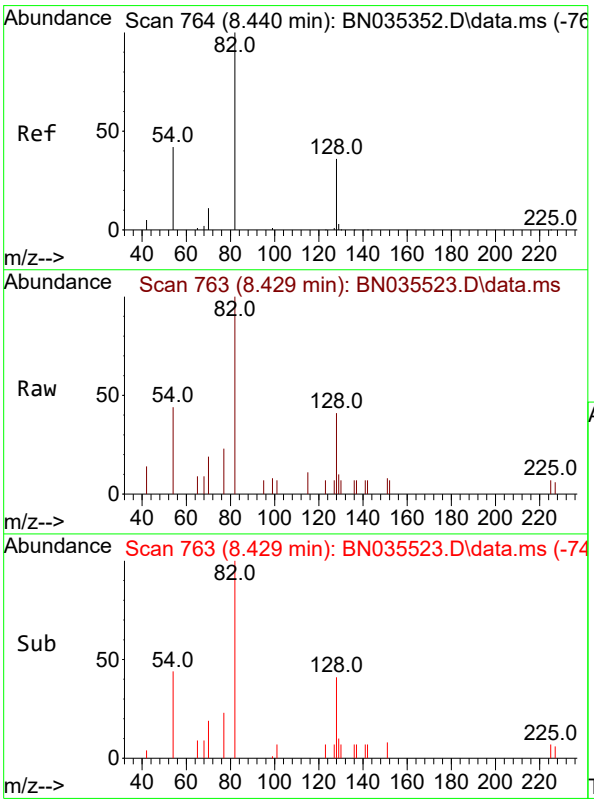
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4948

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.7	6.1	9.1
68	6.5	6.4	9.6

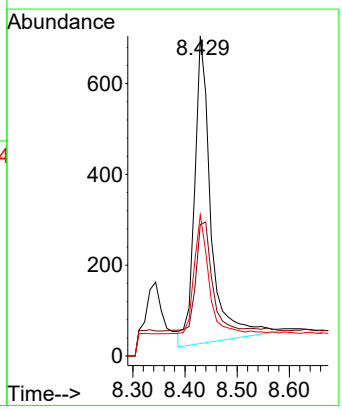


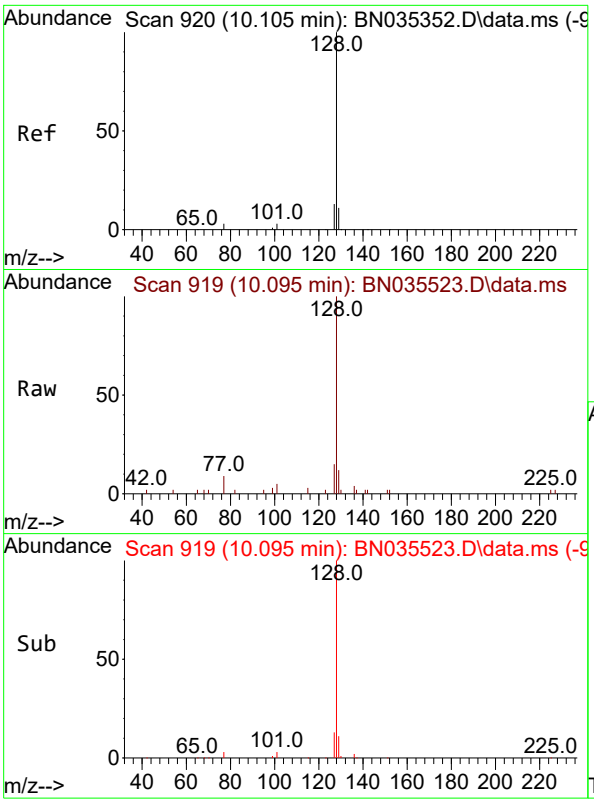


#8
Nitrobenzene-d5
Concen: 0.493 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion: 82 Resp: 1491

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.4	50.0
54	44.1	36.7	55.1



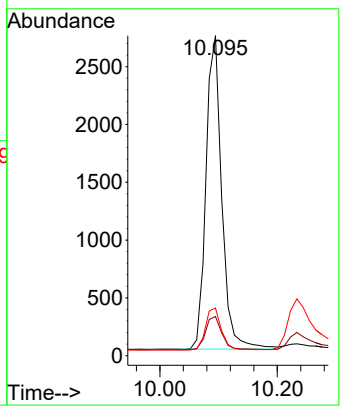


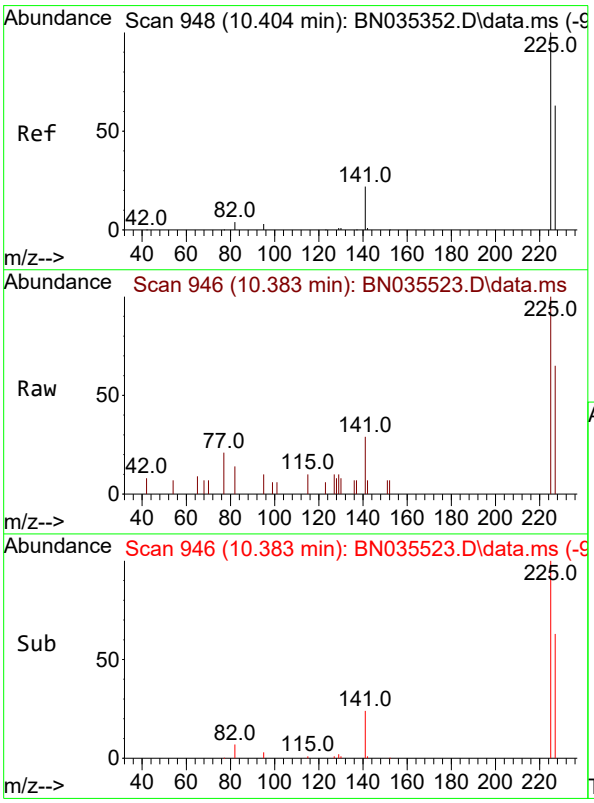
#9
Naphthalene
Concen: 0.389 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 5071

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.9	11.4	17.2

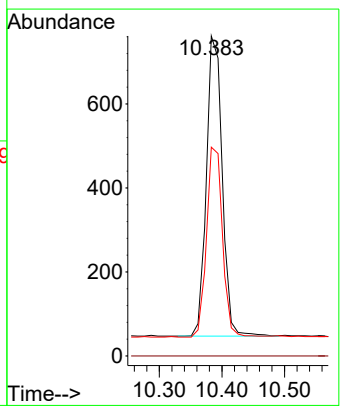


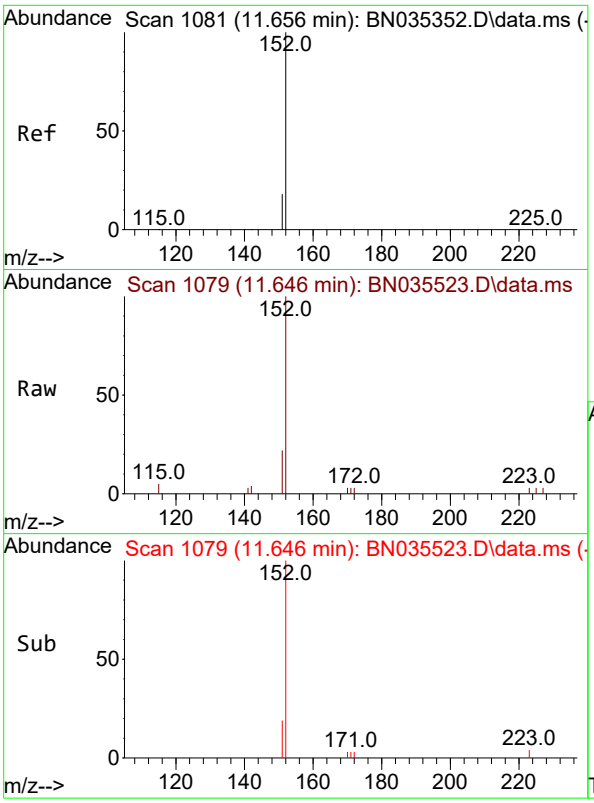


#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:225 Resp: 1254

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9



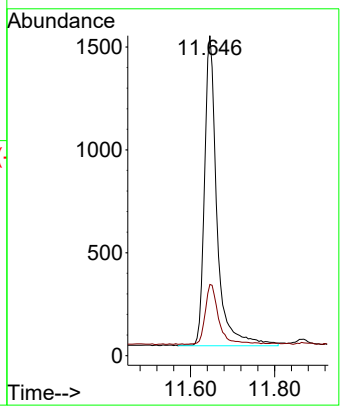


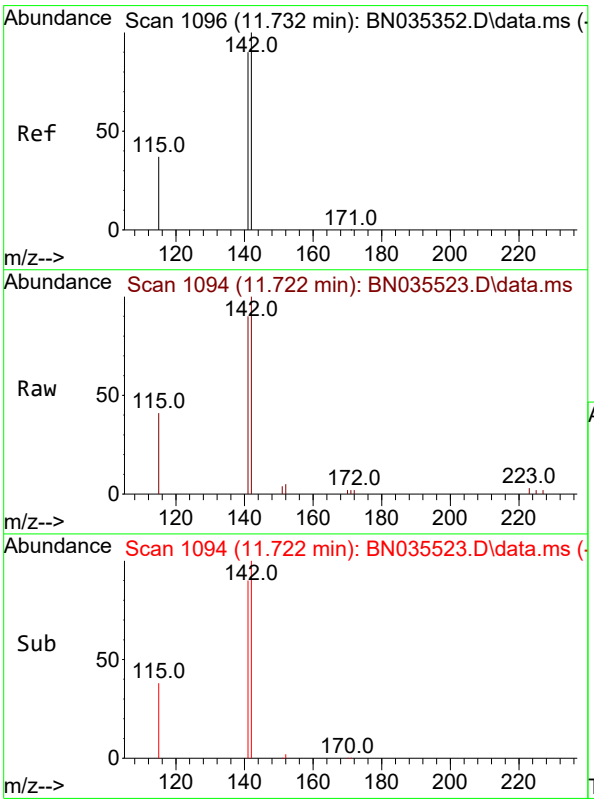
#11
2-Methylnaphthalene-d10
Concen: 0.400 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3094

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

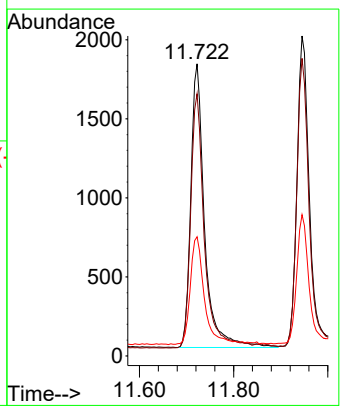


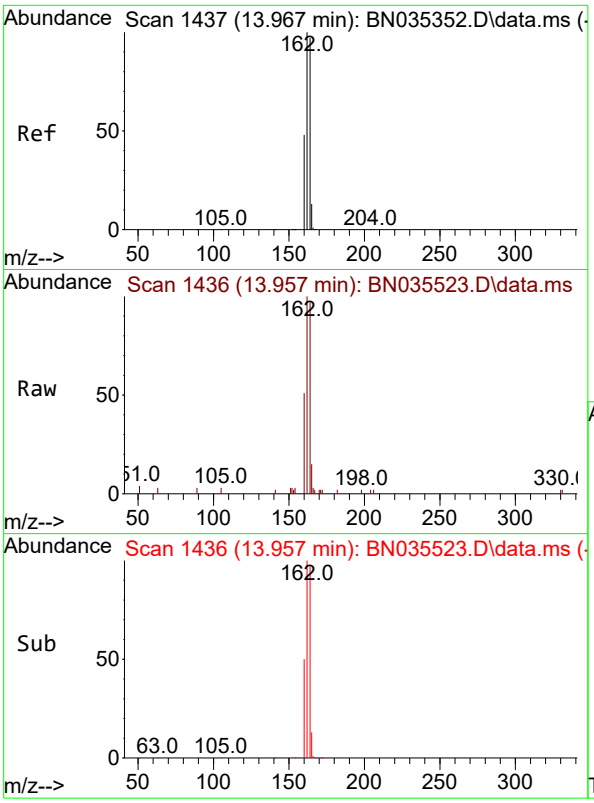


#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:142 Resp: 3664

Ion	Ratio	Lower	Upper
142	100		
141	89.8	72.2	108.4
115	40.8	31.4	47.0



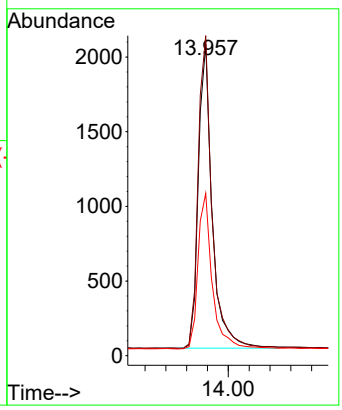


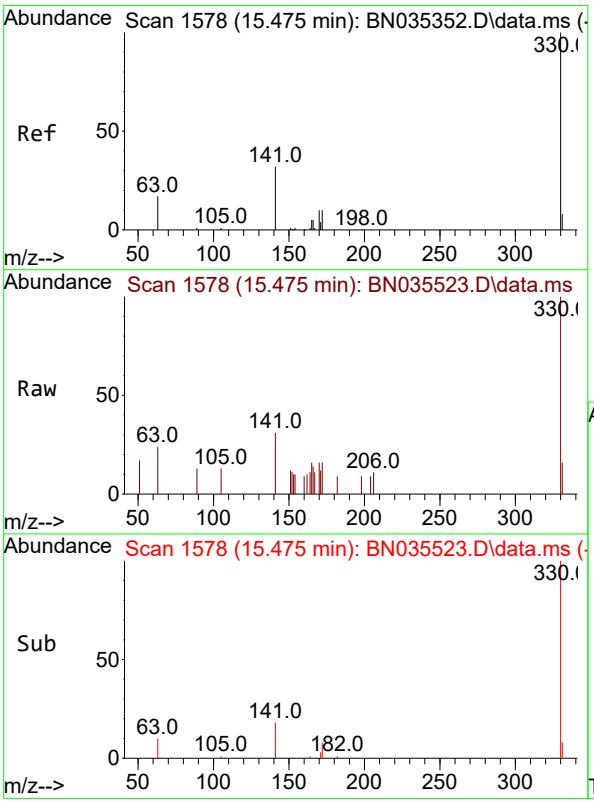
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3762

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	52.1	40.1	60.1

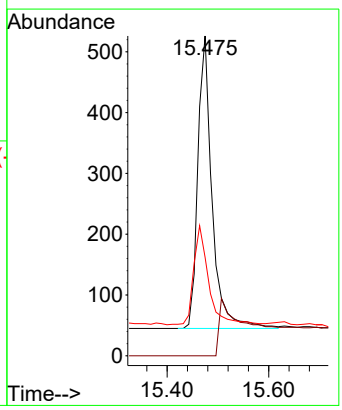


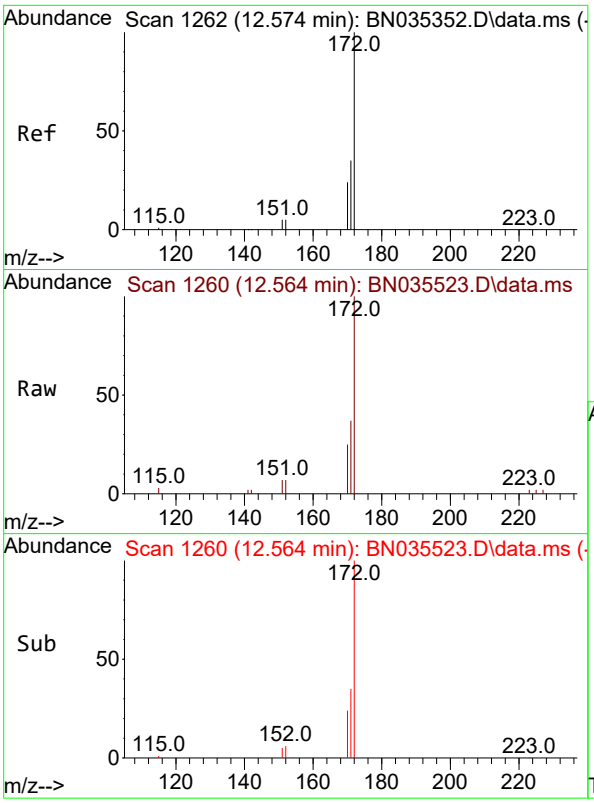


#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:330 Resp: 1002

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.8	26.6	40.0



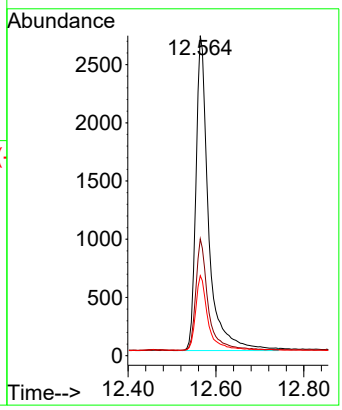


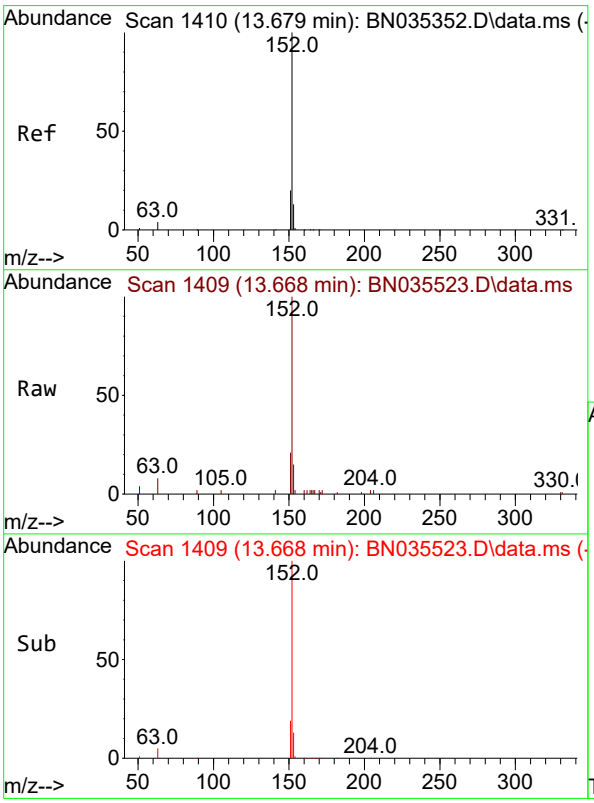
#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5445

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	25.0	19.8	29.8

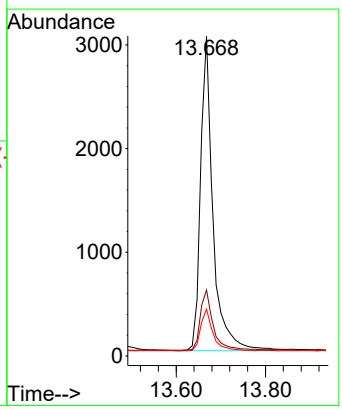


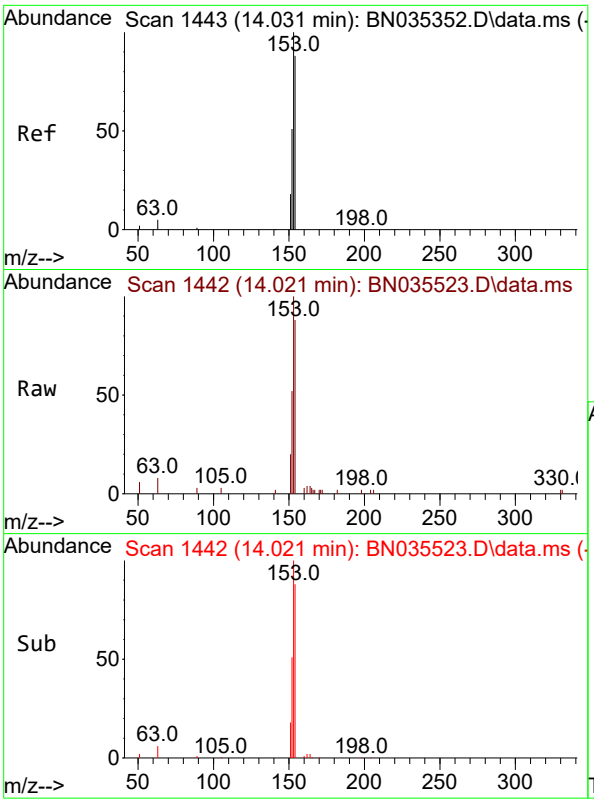


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:152 Resp: 5848

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.1	10.4	15.6



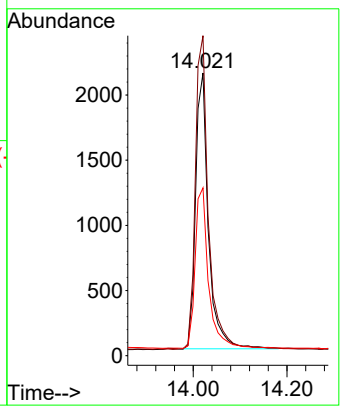


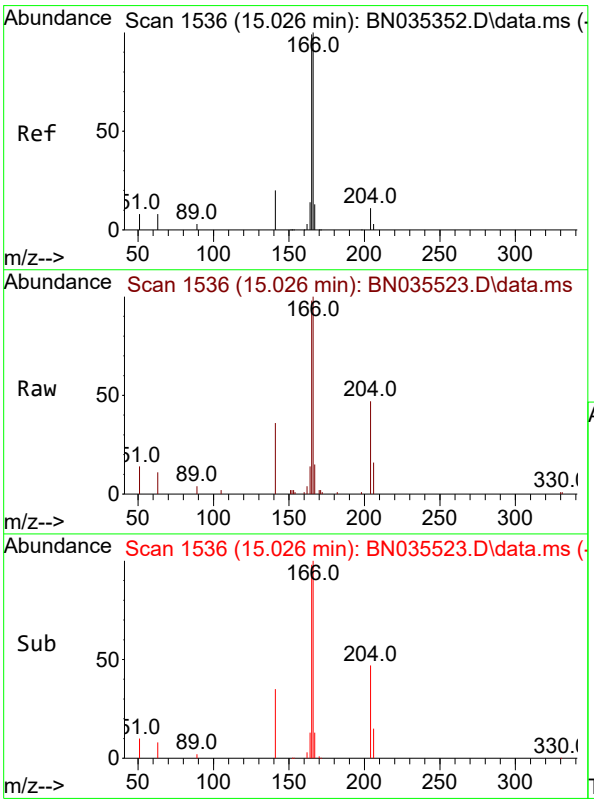
#17
Acenaphthene
Concen: 0.384 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4030

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	61.0	49.0	73.6

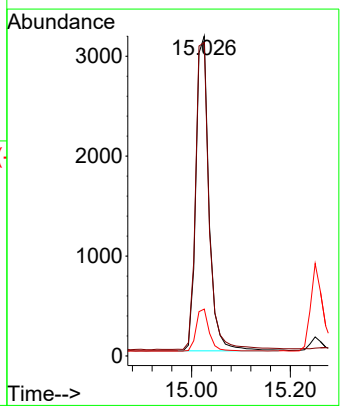


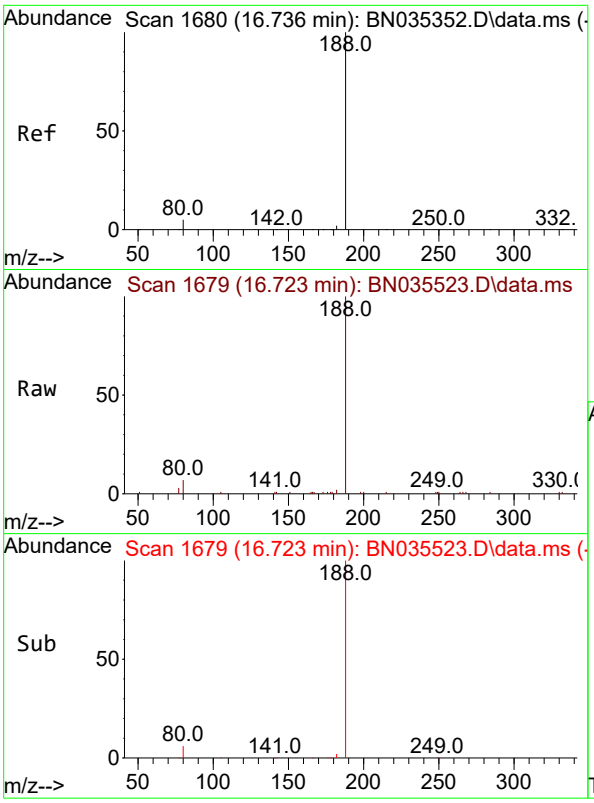


#18
Fluorene
Concen: 0.387 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:166 Resp: 5811

Ion	Ratio	Lower	Upper
166	100		
165	100.8	79.7	119.5
167	13.3	10.8	16.2



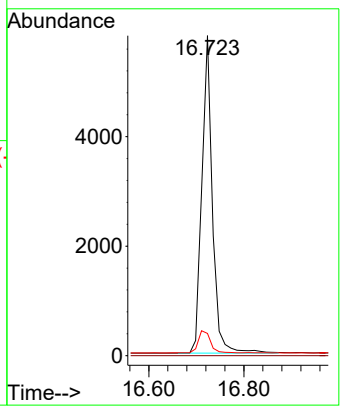


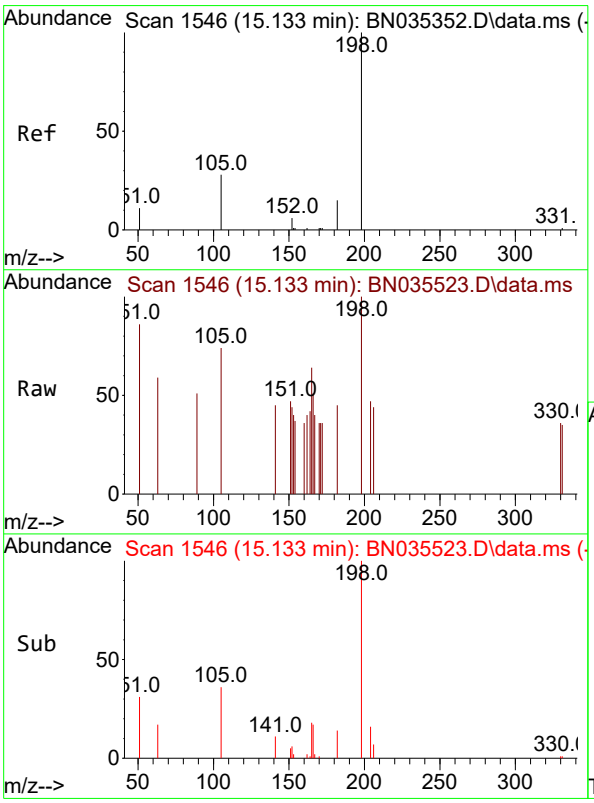
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 8986

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8#

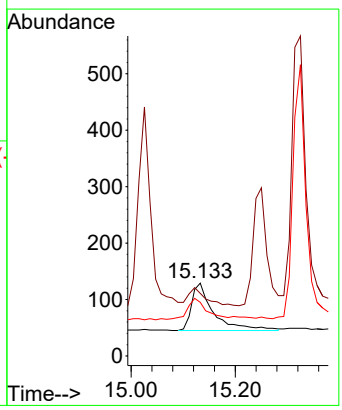


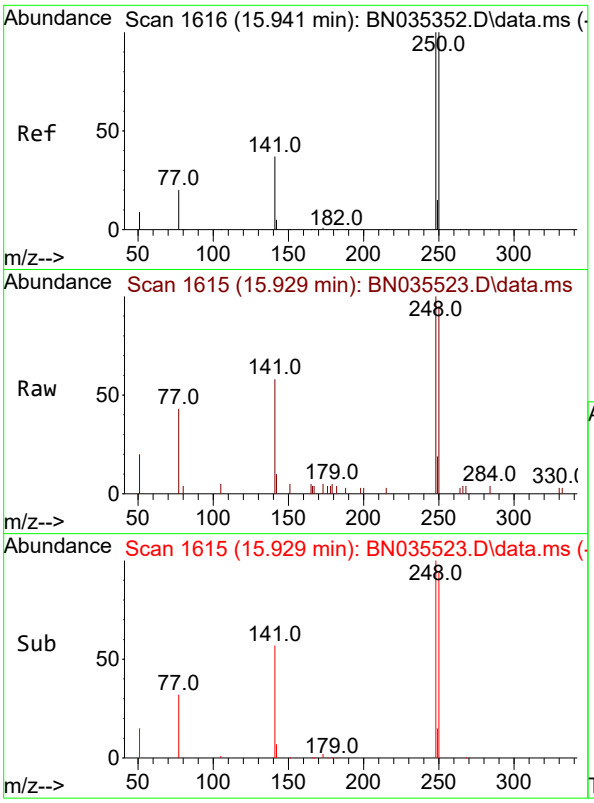


#20
4,6-Dinitro-2-methylphenol
Concen: 0.281 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:198 Resp: 248

Ion	Ratio	Lower	Upper
198	100		
51	86.0	46.5	69.7#
105	73.6	45.3	67.9#



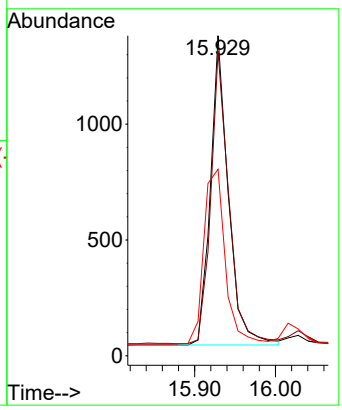


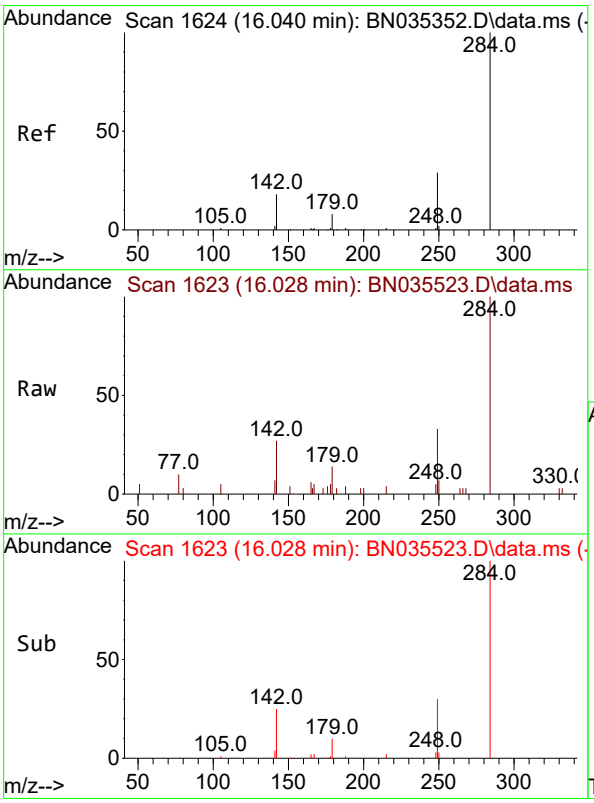
#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2058

Ion	Ratio	Lower	Upper
248	100		
250	95.2	80.6	120.8
141	58.2	31.5	47.3#

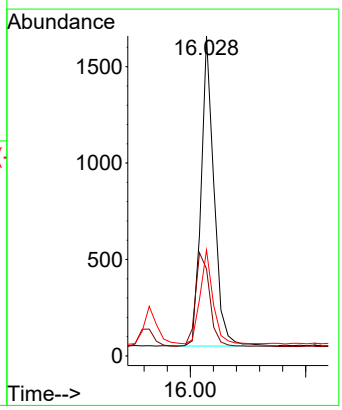


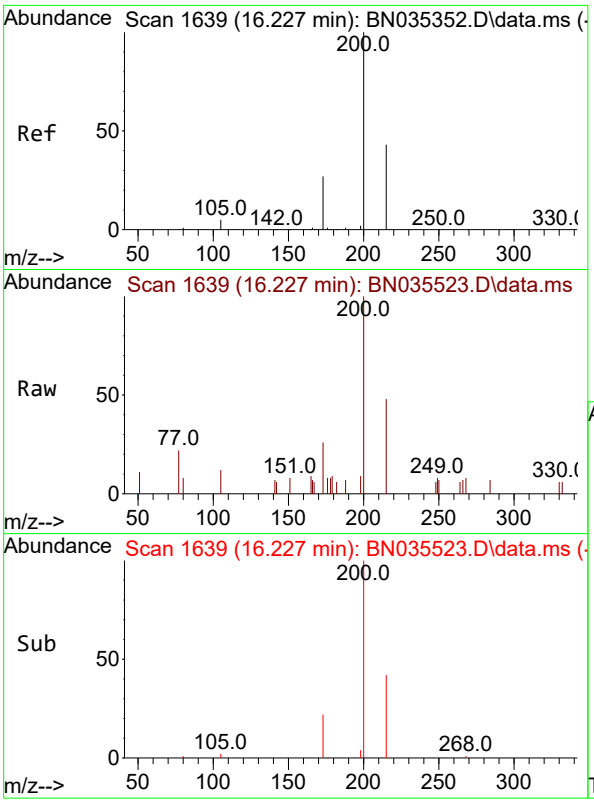


#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:284 Resp: 2505

Ion	Ratio	Lower	Upper
284	100		
142	33.7	26.7	40.1
249	29.9	24.6	36.8



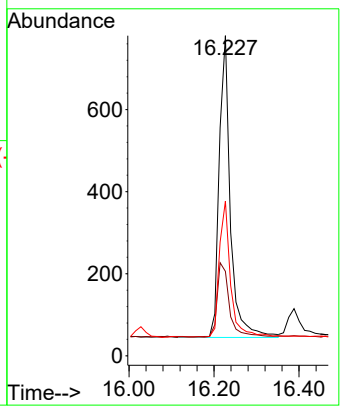


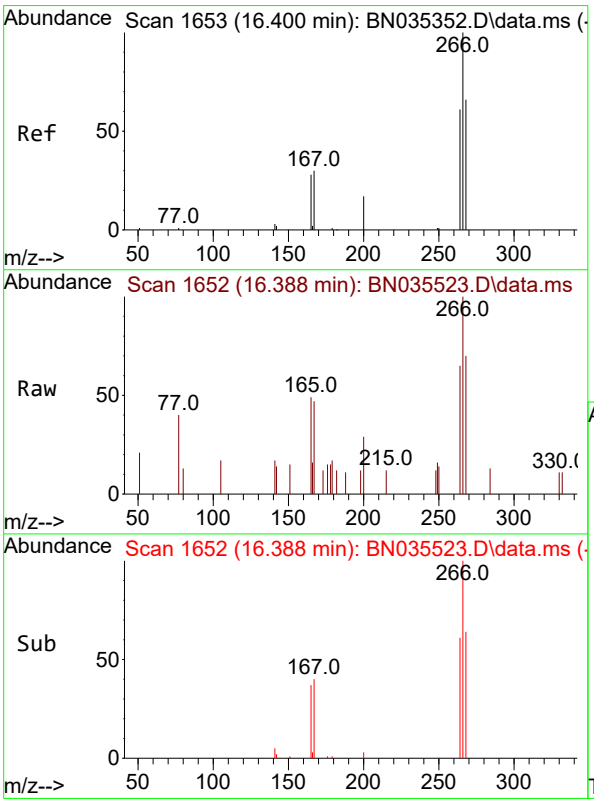
#23
Atrazine
Concen: 0.358 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1338

Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	48.3	36.9	55.3

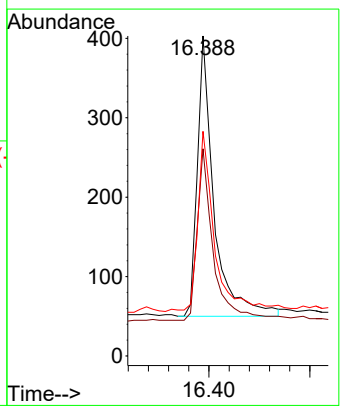


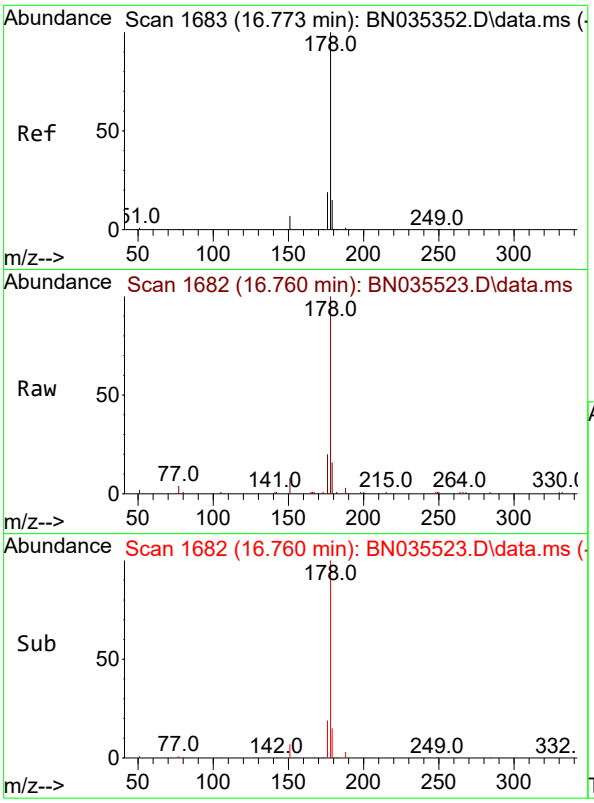


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:266 Resp: 807

Ion	Ratio	Lower	Upper
266	100		
264	58.9	42.3	63.5
268	64.6	43.3	64.9



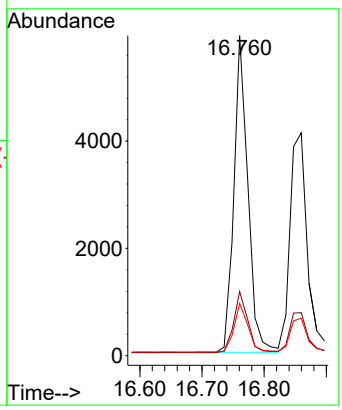


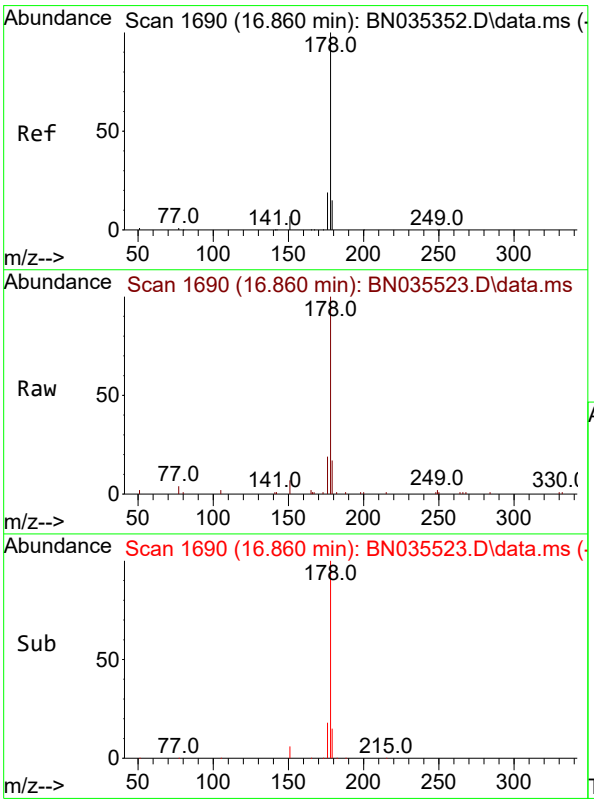
#25
Phenanthrene
Concen: 0.374 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9239

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.7	12.3	18.5

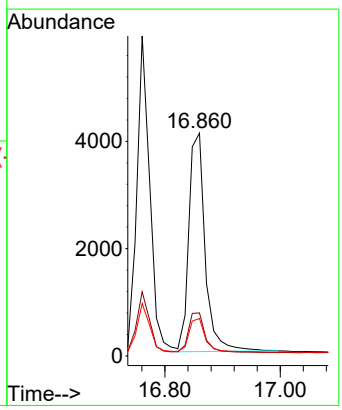


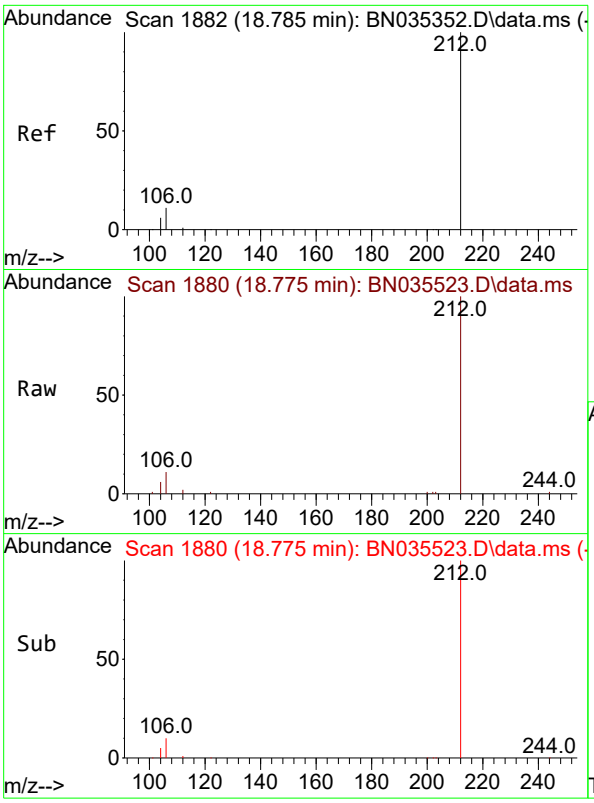


#26
Anthracene
Concen: 0.359 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:178 Resp: 8006

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.7	12.6	18.8



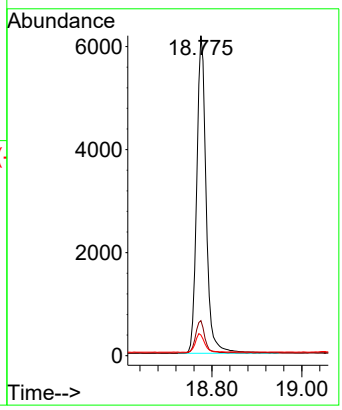


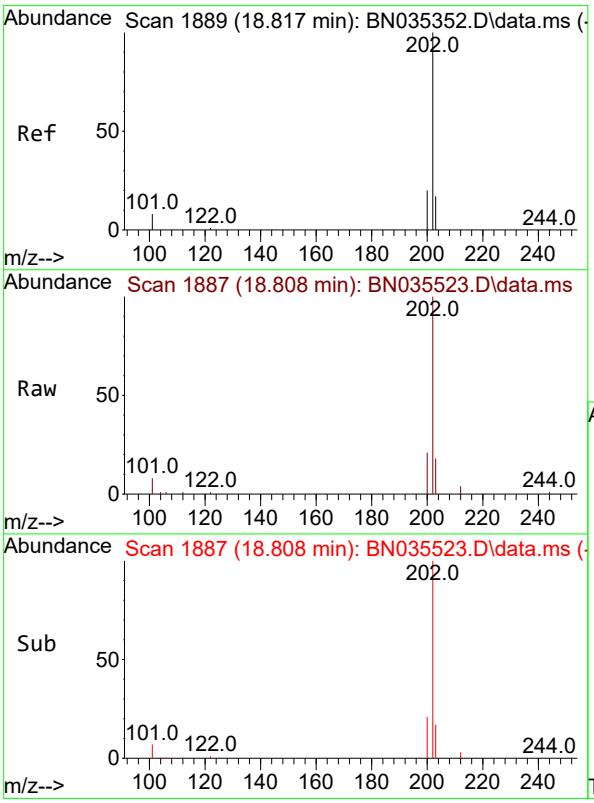
#27
Fluoranthene-d10
Concen: 0.355 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9035

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	5.7	5.3	7.9

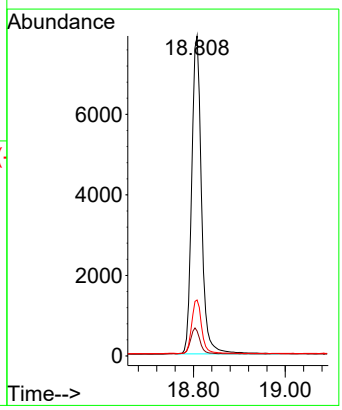


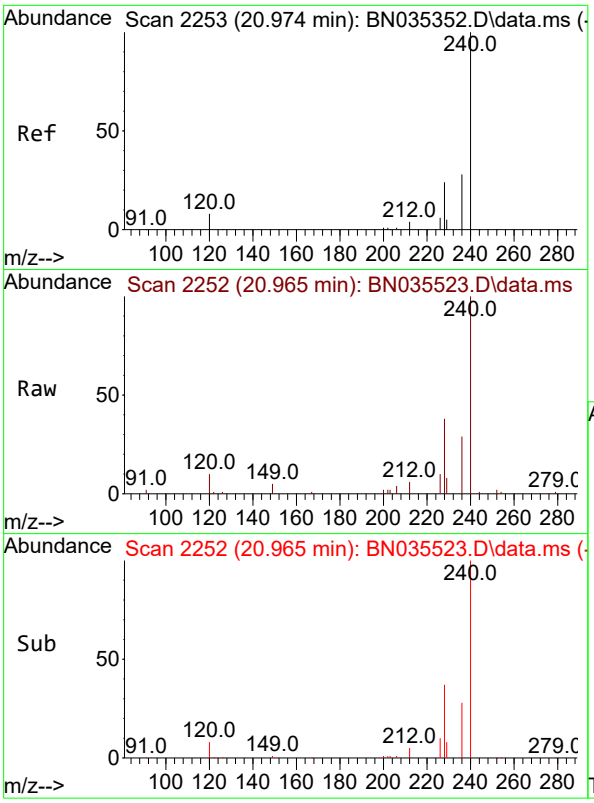


#28
Fluoranthene
Concen: 0.351 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11681

Ion	Ratio	Lower	Upper
202	100		
101	8.1	7.4	11.0
203	17.1	13.7	20.5



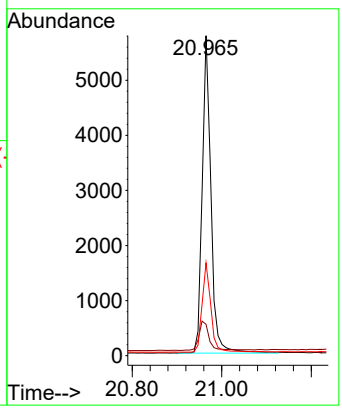


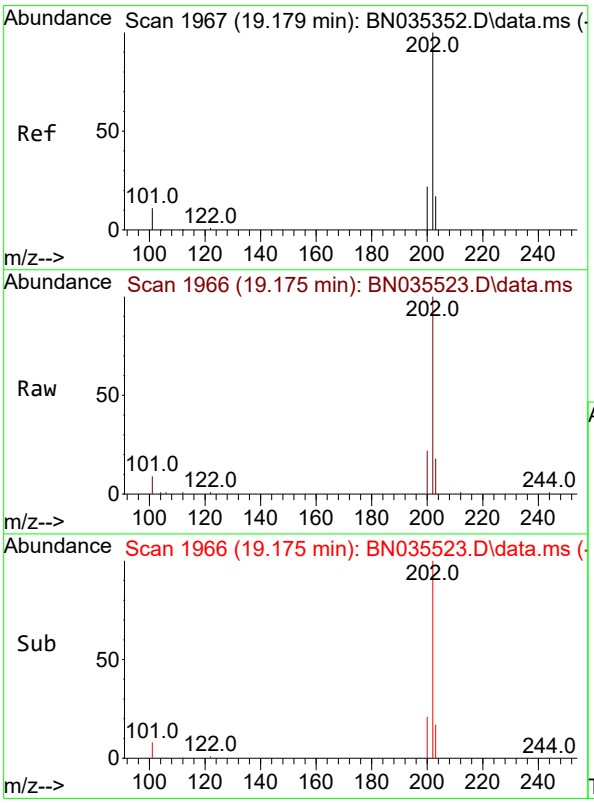
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7813

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.9	11.9
236	29.0	22.9	34.3

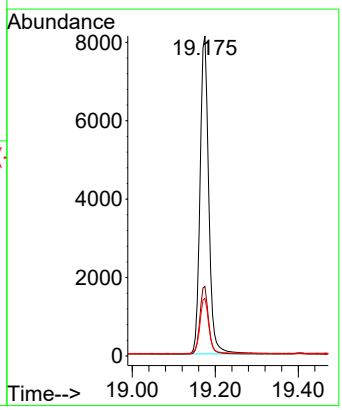


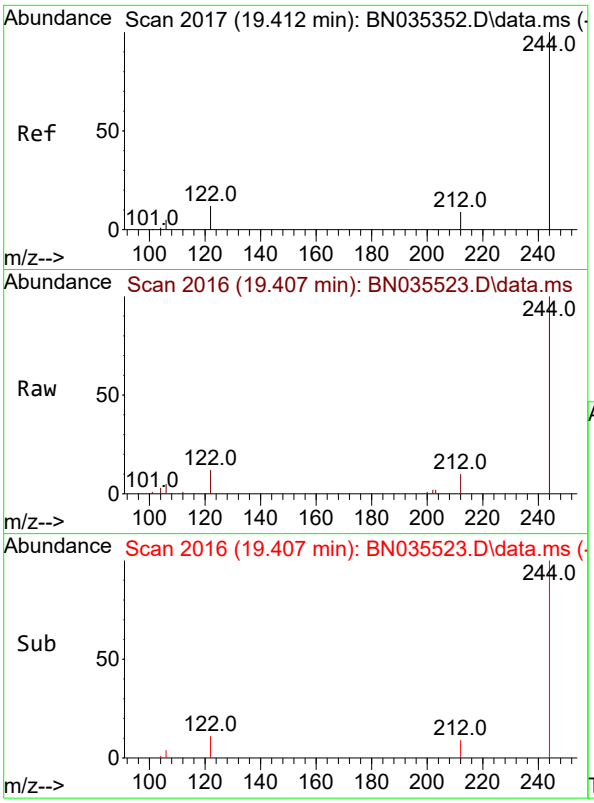


#30
Pyrene
Concen: 0.411 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:202 Resp: 11847

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.9	14.3	21.5



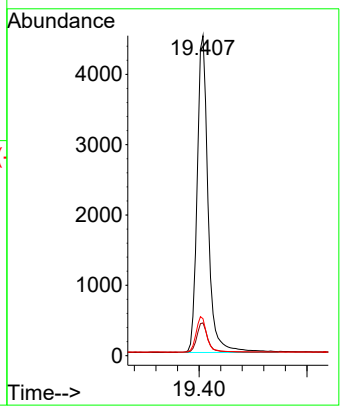


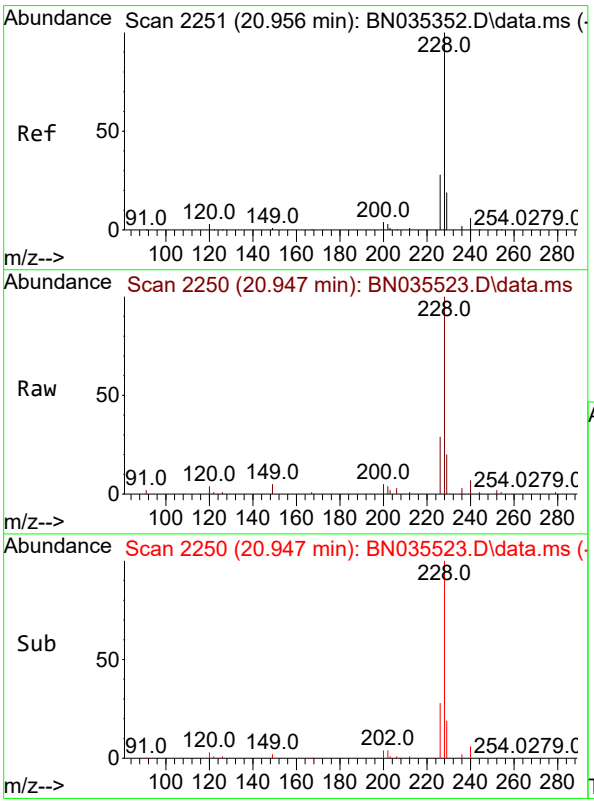
#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6345

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.6	10.3	15.5

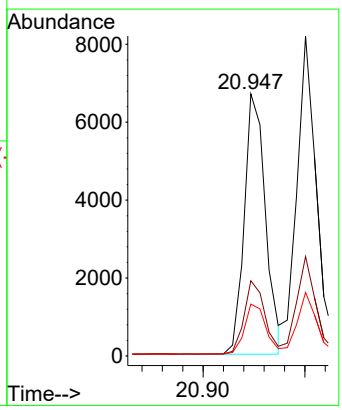


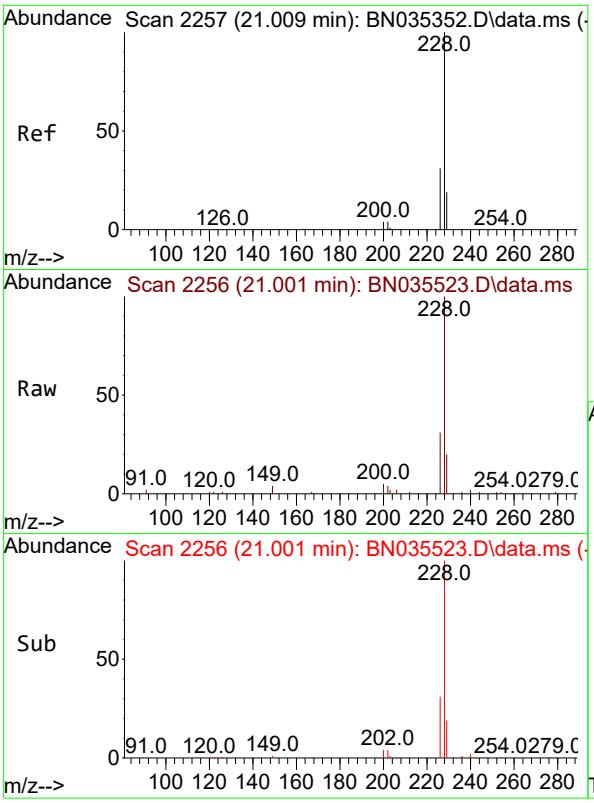


#32
Benzo(a)anthracene
Concen: 0.354 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:228 Resp: 9669

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	19.8	15.8	23.8



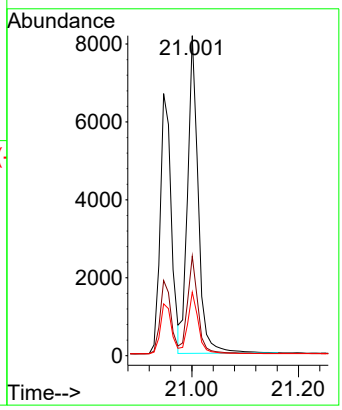


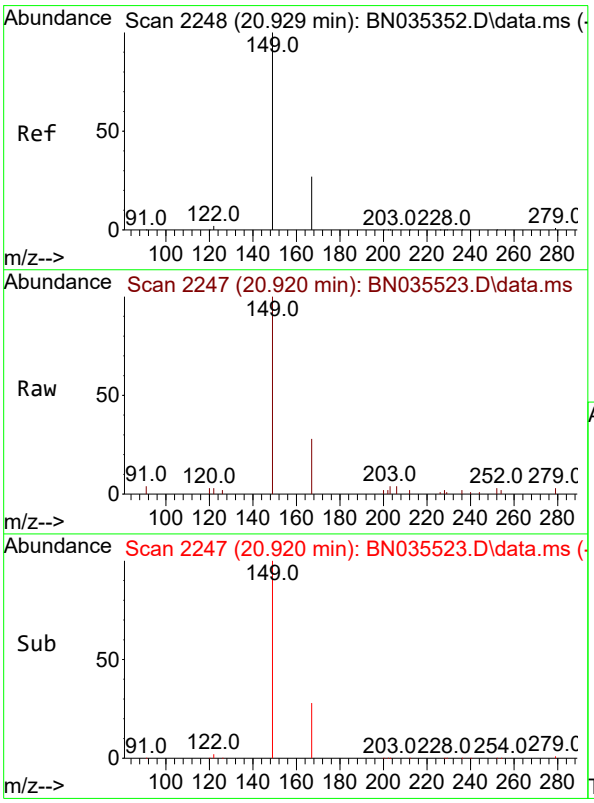
#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 11263

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	19.8	15.9	23.9

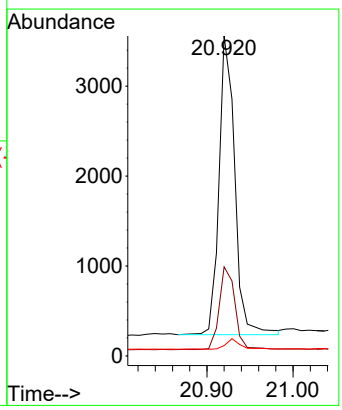


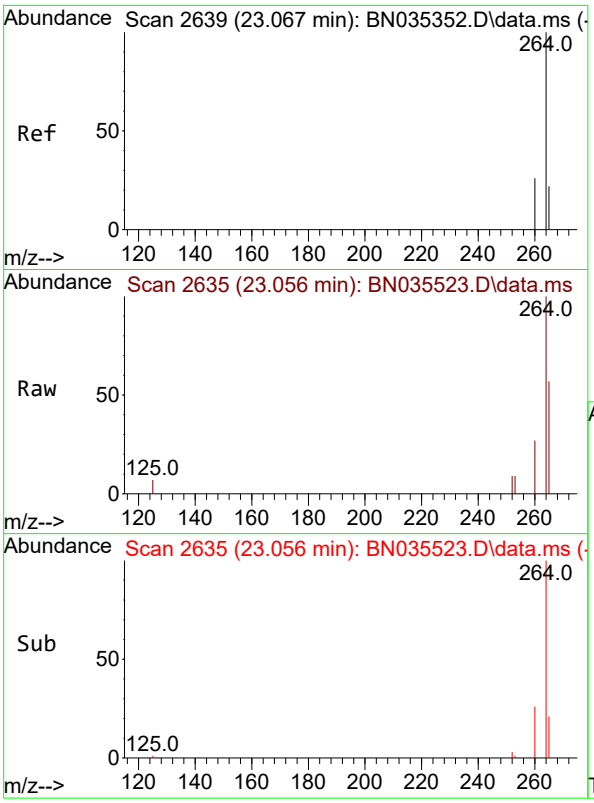


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.389 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:149 Resp: 4196

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1



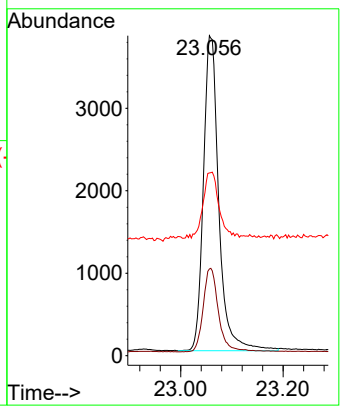


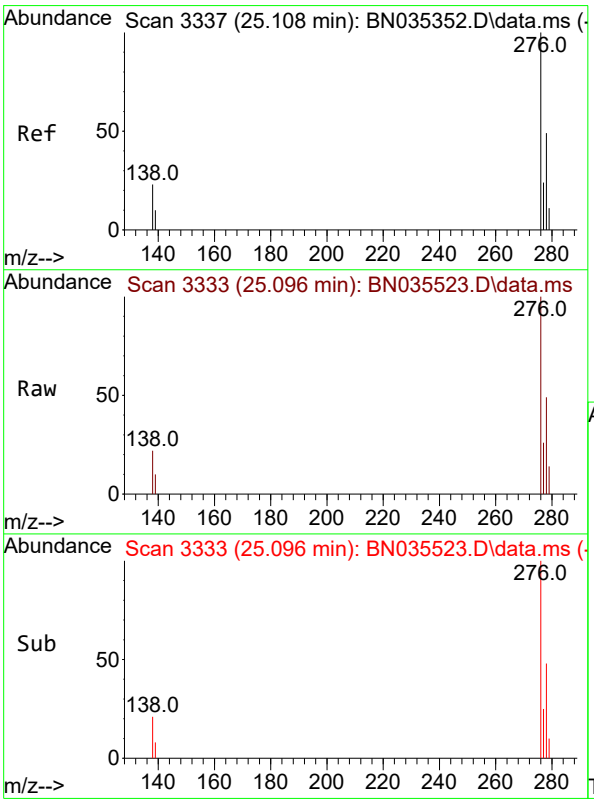
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.056 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7976

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	57.1	40.2	60.4

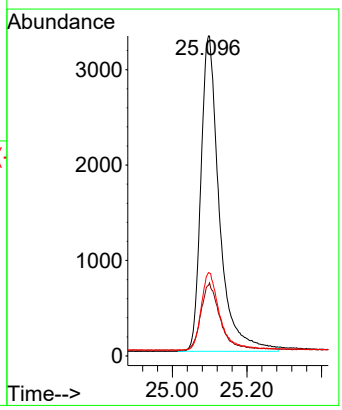


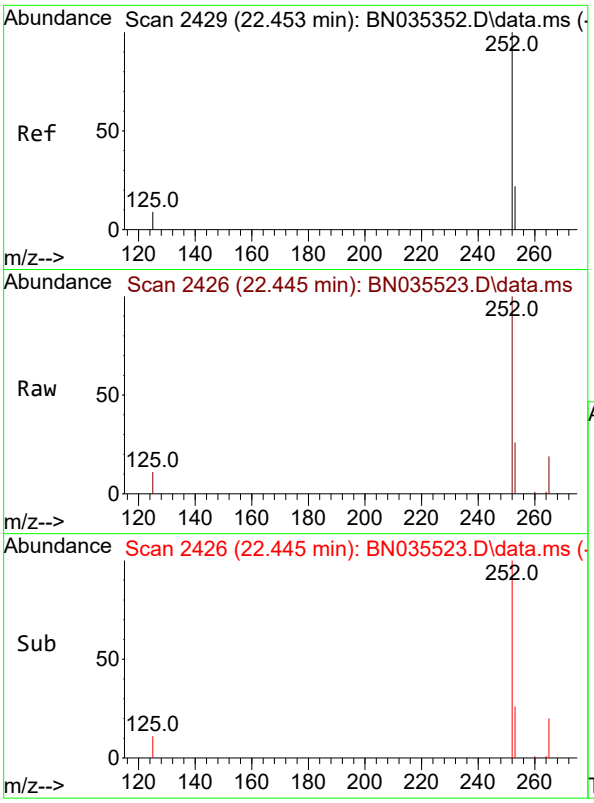


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.364 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:276 Resp: 11338

Ion	Ratio	Lower	Upper
276	100		
138	21.5	19.4	29.0
277	25.0	19.8	29.6



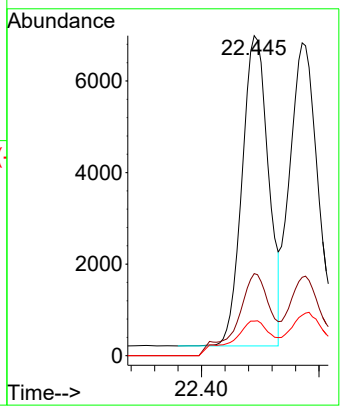


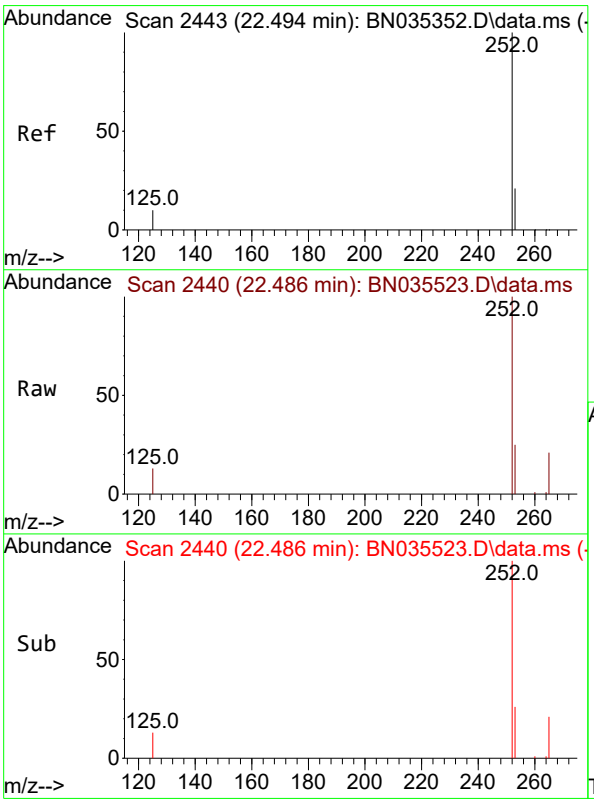
#37
Benzo(b)fluoranthene
Concen: 0.459 ng
RT: 22.445 min Scan# 24
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13396

Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.6	29.4
125	10.8	9.6	14.4

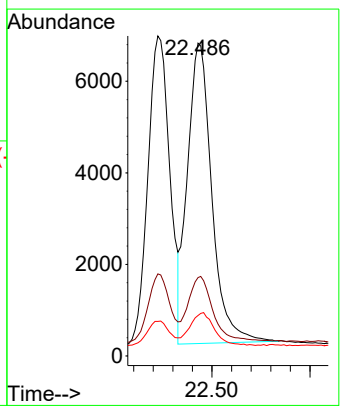


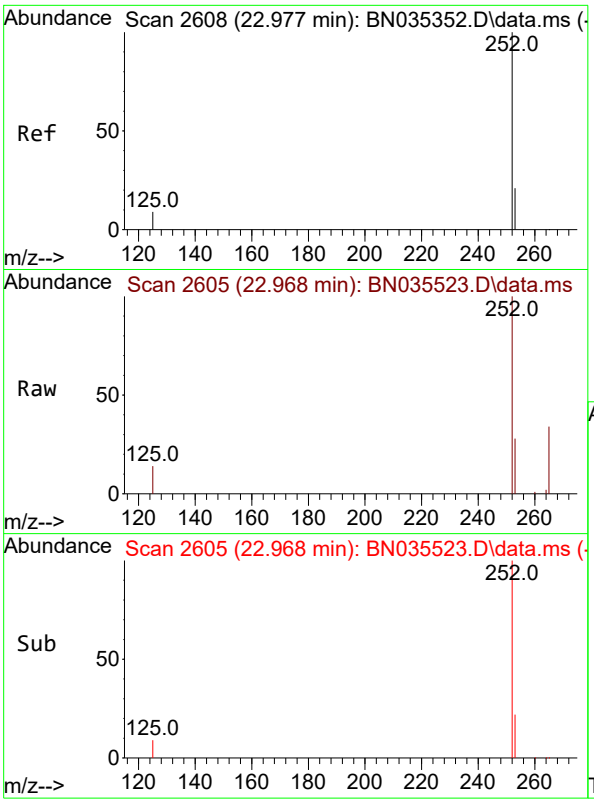


#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.486 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:252 Resp: 11357

Ion	Ratio	Lower	Upper
252	100		
253	25.1	19.5	29.3
125	12.9	10.2	15.4



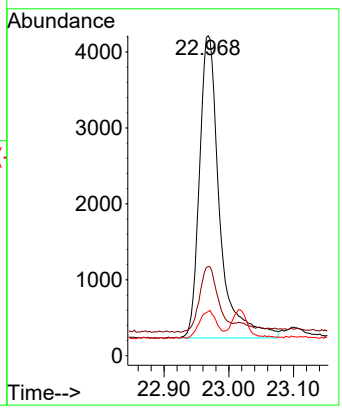


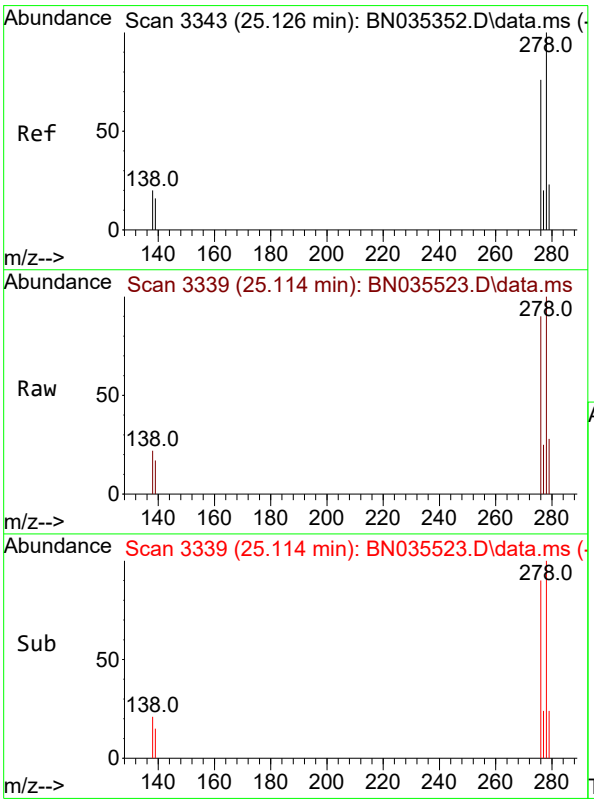
#39
Benzo(a)pyrene
Concen: 0.357 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 8586

Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	13.7	10.9	16.3

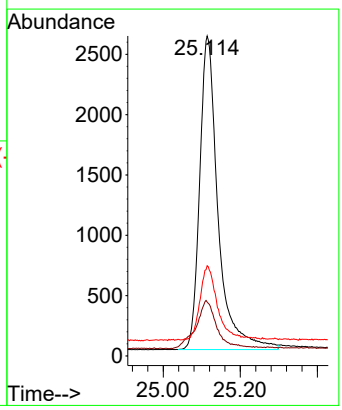


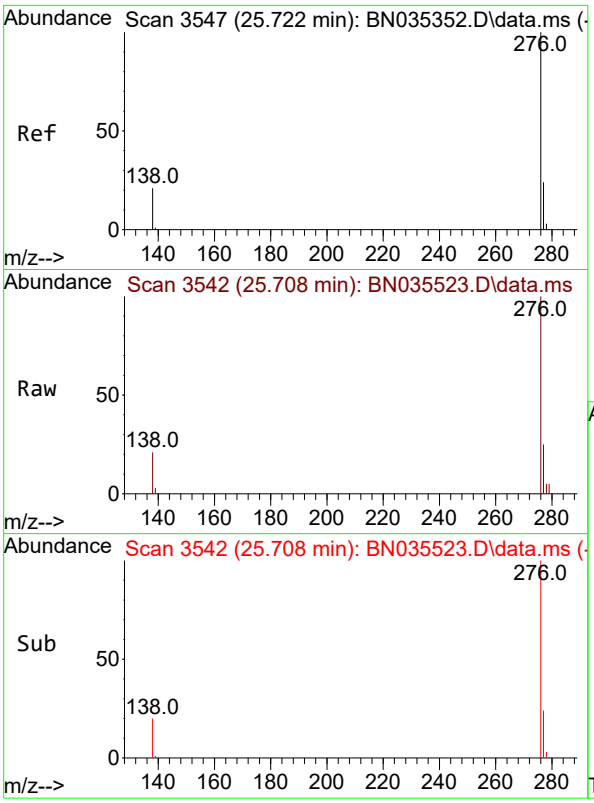


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.114 min Scan# 3339
Delta R.T. -0.012 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Tgt Ion:278 Resp: 8605

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.2	21.4
279	28.2	20.5	30.7



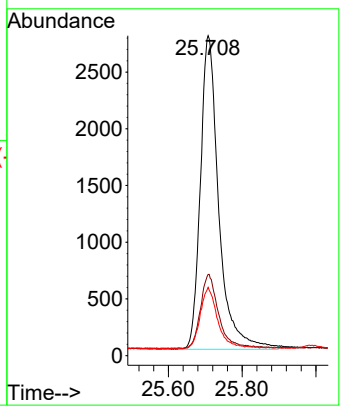


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.708 min Scan# 3
Delta R.T. -0.014 min
Lab File: BN035523.D
Acq: 10 Dec 2024 00:55

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 9565

Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.9	29.9
138	21.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.293	152	2237	0.400	ng		-0.01
7) Naphthalene-d8	10.041	136	6161	0.400	ng		#-0.01
13) Acenaphthene-d10	13.957	164	4478	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	11122	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	9383	0.400	ng		0.00
35) Perylene-d12	23.059	264	8820	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	2331	0.416	ng		-0.01
5) Phenol-d6	6.499	99	2854	0.424	ng		-0.01
8) Nitrobenzene-d5	8.429	82	1794	0.477	ng		-0.01
11) 2-Methylnaphthalene-d10	11.641	152	3832	0.397	ng		-0.02
14) 2,4,6-Tribromophenol	15.475	330	1114	0.350	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	6697	0.396	ng		-0.01
27) Fluoranthene-d10	18.775	212	11062	0.351	ng		0.00
31) Terphenyl-d14	19.407	244	7824	0.423	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	855	0.400	ng		98
3) n-Nitrosodimethylamine	3.292	42	766	0.430	ng	#	97
6) bis(2-Chloroethyl)ether	6.744	93	2173	0.384	ng		99
9) Naphthalene	10.084	128	6356	0.391	ng		99
10) Hexachlorobutadiene	10.383	225	1563	0.417	ng	#	99
12) 2-Methylnaphthalene	11.717	142	4569	0.393	ng		98
16) Acenaphthylene	13.668	152	6981	0.371	ng		99
17) Acenaphthene	14.010	154	4775	0.382	ng		100
18) Fluorene	15.015	166	6863	0.384	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	302	0.276	ng	#	80
21) 4-Bromophenyl-phenylether	15.929	248	2441	0.375	ng	#	88
22) Hexachlorobenzene	16.028	284	2985	0.391	ng		98
23) Atrazine	16.227	200	1581	0.341	ng		96
24) Pentachlorophenol	16.388	266	1026	0.309	ng		86
25) Phenanthrene	16.760	178	11604	0.380	ng		100
26) Anthracene	16.860	178	9999	0.362	ng		100
28) Fluoranthene	18.808	202	14397	0.350	ng		99
30) Pyrene	19.175	202	14606	0.422	ng		100
32) Benzo(a)anthracene	20.947	228	11650	0.355	ng		99
33) Chrysene	21.000	228	13503	0.399	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	4730	0.365	ng		100
36) Indeno(1,2,3-cd)pyrene	25.093	276	11862	0.344	ng		98
37) Benzo(b)fluoranthene	22.445	252	14172	0.439	ng		99
38) Benzo(k)fluoranthene	22.485	252	12715	0.400	ng		99
39) Benzo(a)pyrene	22.971	252	9673	0.364	ng		98
40) Dibenzo(a,h)anthracene	25.117	278	8943	0.329	ng		97
41) Benzo(g,h,i)perylene	25.710	276	10586	0.372	ng		98

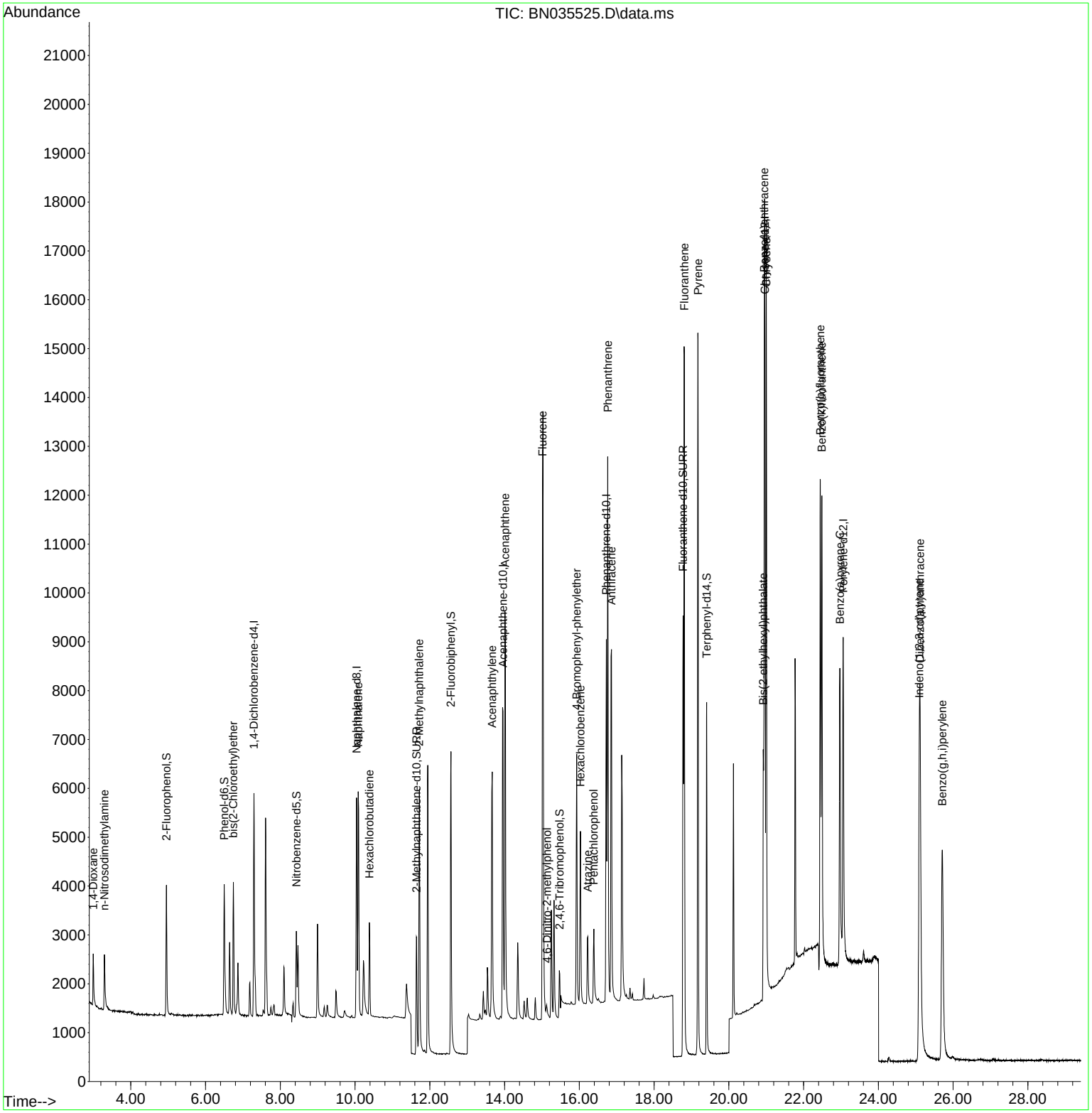
(#) = qualifier out of range (m) = manual integration (+) = signals summed

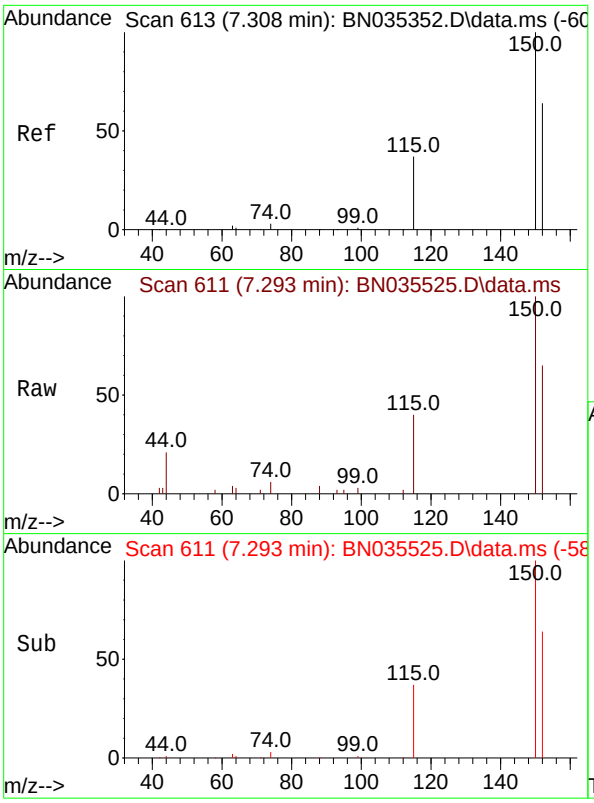
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035525.D
Acq On : 10 Dec 2024 09:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 10 12:27:43 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



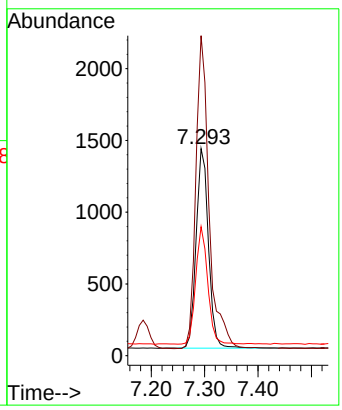


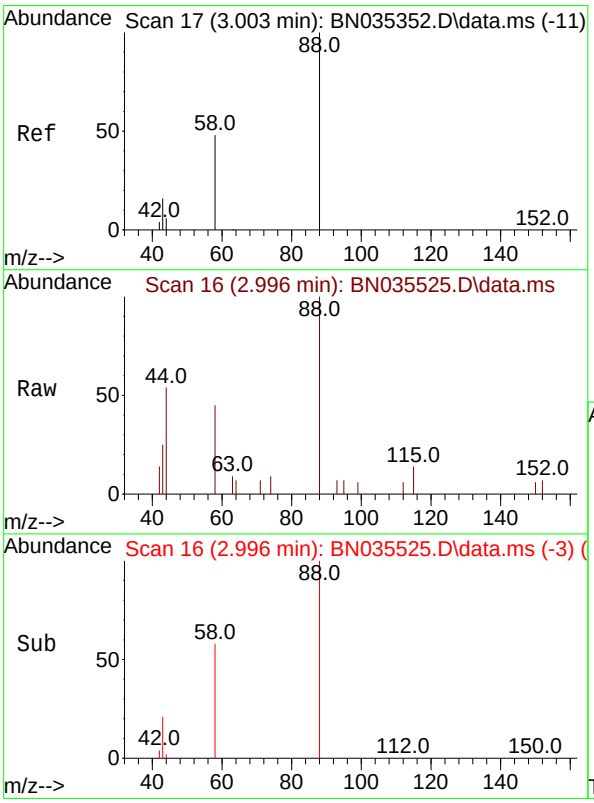
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2237

Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.0	186.0
115	62.3	49.6	74.4

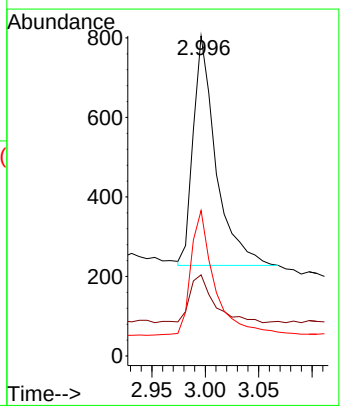


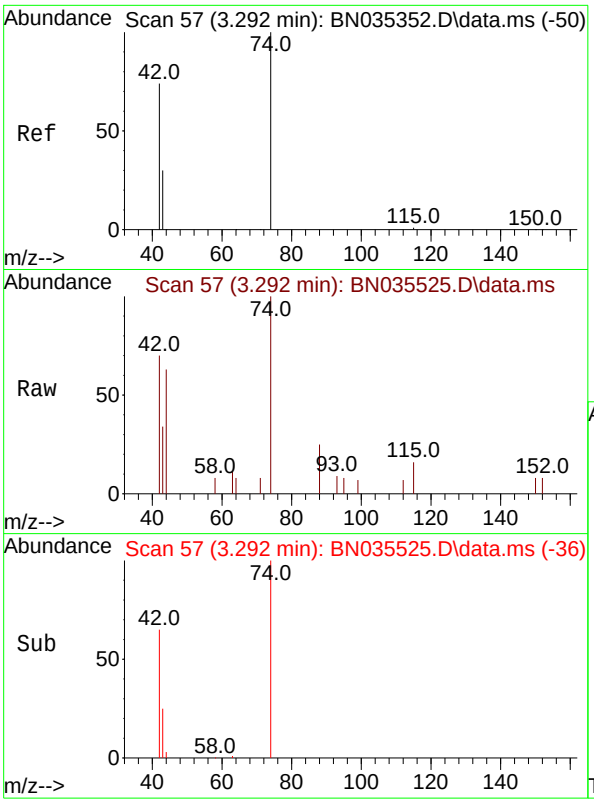


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 88 Resp: 855

Ion	Ratio	Lower	Upper
88	100		
43	20.9	17.2	25.8
58	57.2	44.5	66.7



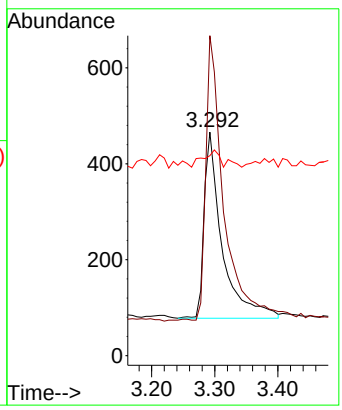


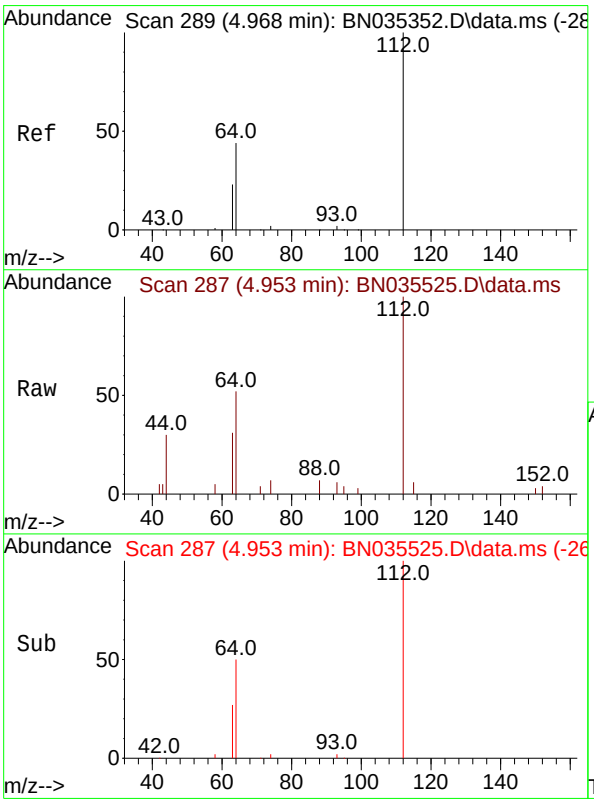
#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.292 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 766

Ion	Ratio	Lower	Upper
42	100		
74	152.3	124.9	187.3
44	8.4	2.2	3.4#

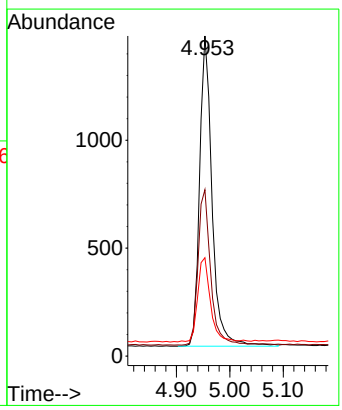


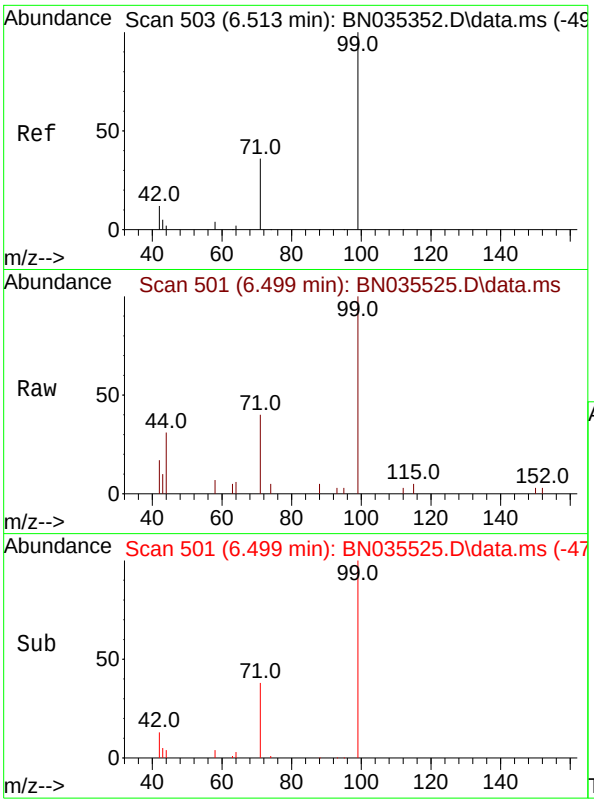


#4
2-Fluorophenol
Concen: 0.416 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:112 Resp: 2331

Ion	Ratio	Lower	Upper
112	100		
64	50.8	39.8	59.8
63	28.1	21.0	31.6



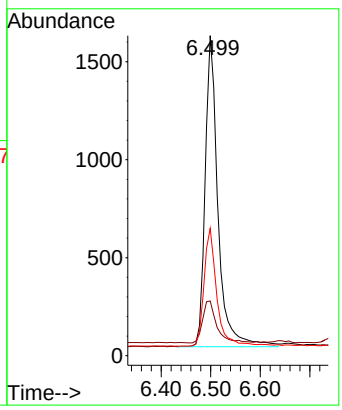


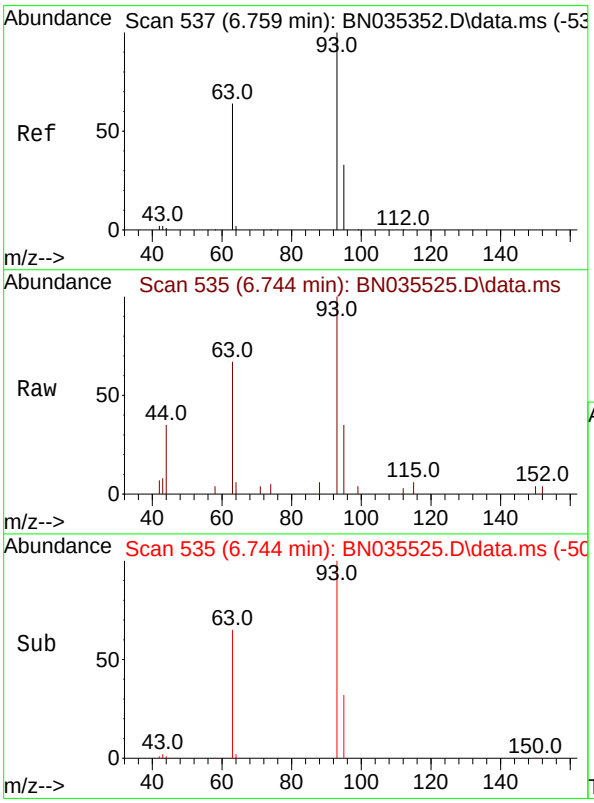
#5
Phenol-d6
Concen: 0.424 ng
RT: 6.499 min Scan# 5(
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 2854

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.2	29.3	43.9

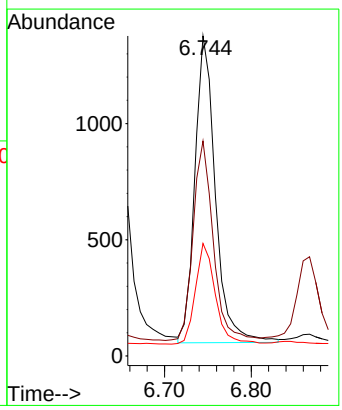


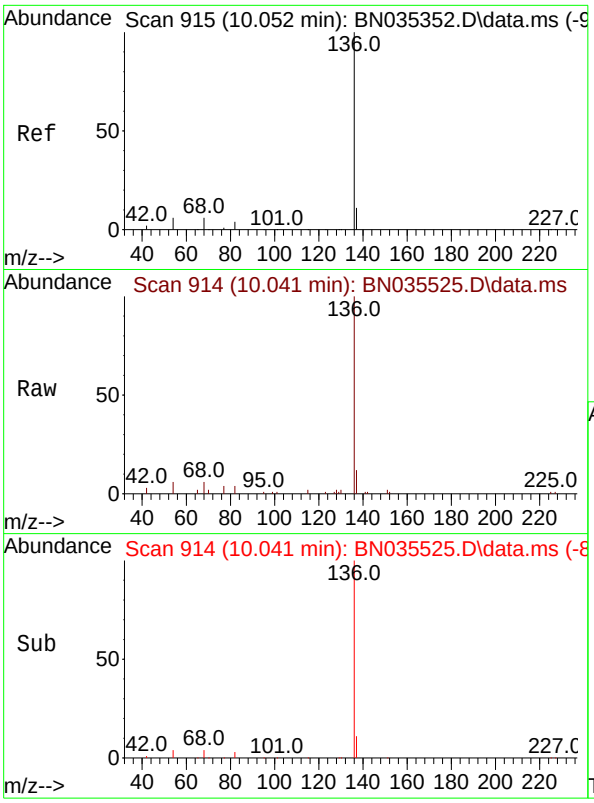


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 93 Resp: 2173

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	32.0	25.7	38.5



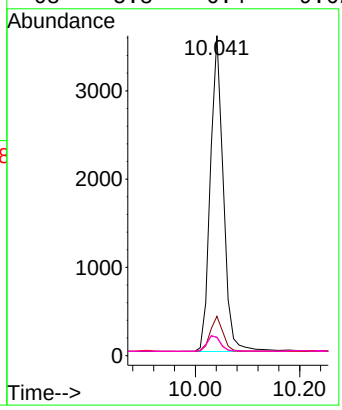


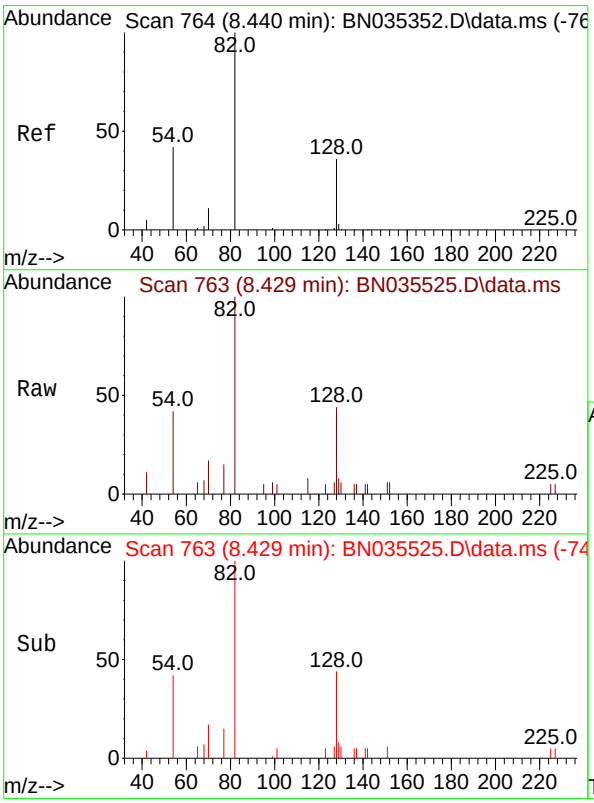
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 6161

Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.2	15.2
54	5.7	6.1	9.1#
68	5.8	6.4	9.6#

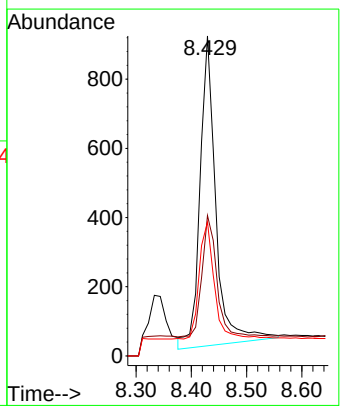


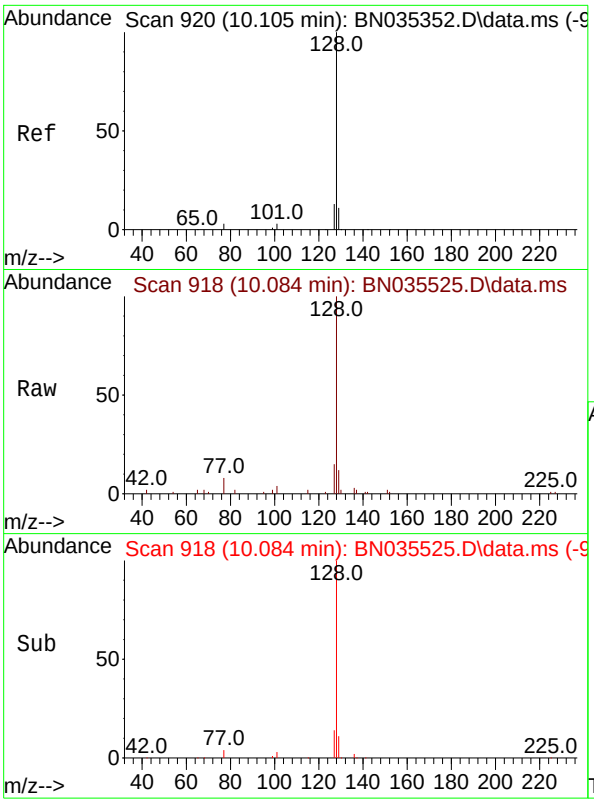


#8
Nitrobenzene-d5
Concen: 0.477 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion: 82 Resp: 1794

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	41.8	36.7	55.1



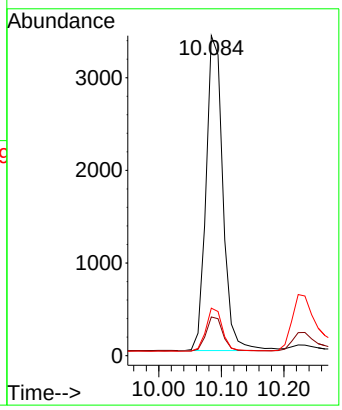


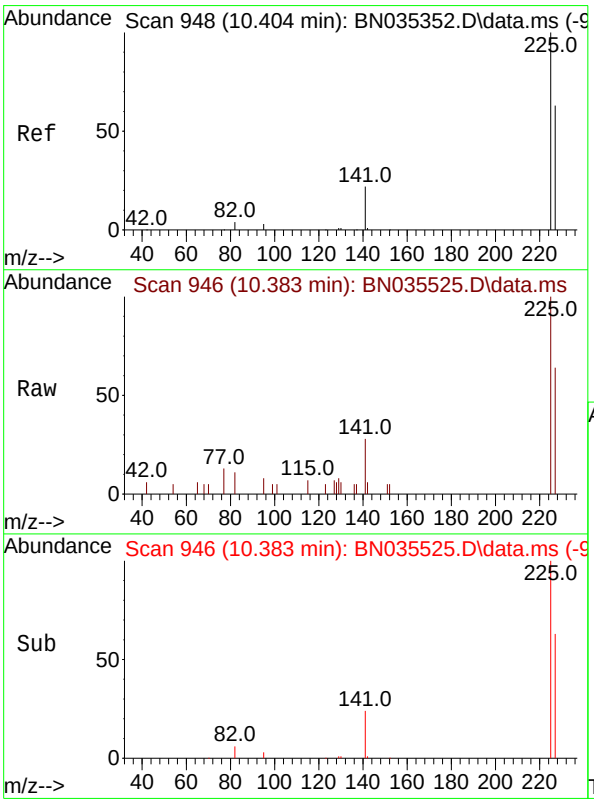
#9
Naphthalene
Concen: 0.391 ng
RT: 10.084 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6356

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	14.8	11.4	17.2

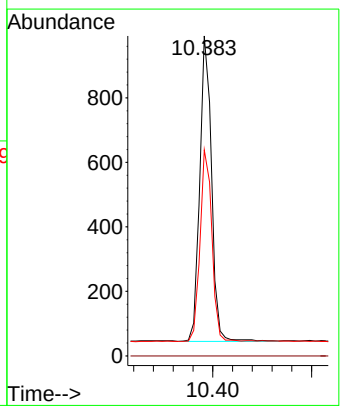


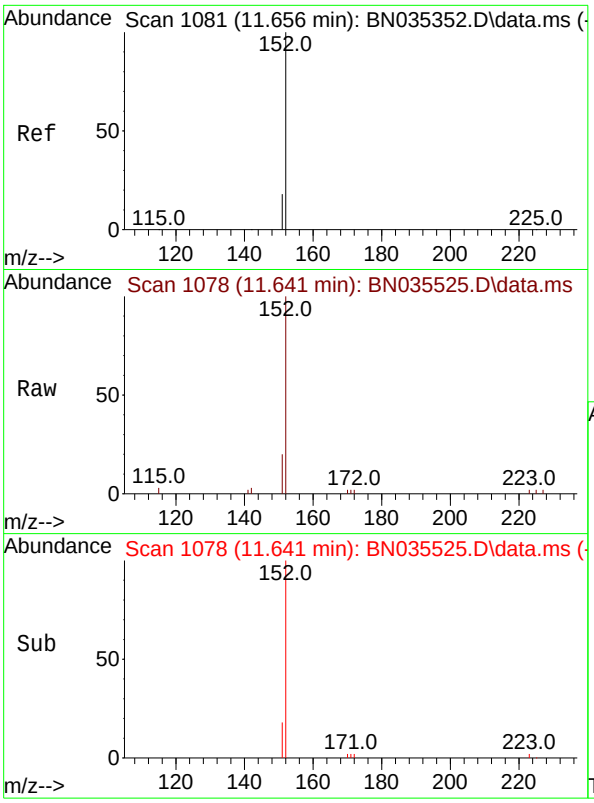


#10
Hexachlorobutadiene
Concen: 0.417 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:225 Resp: 1563

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	51.3	76.9



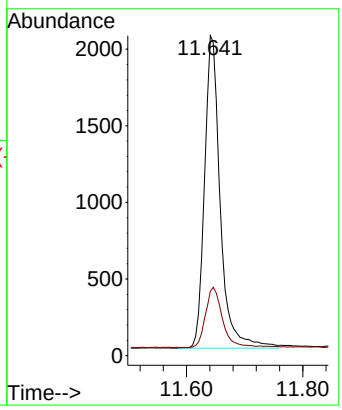


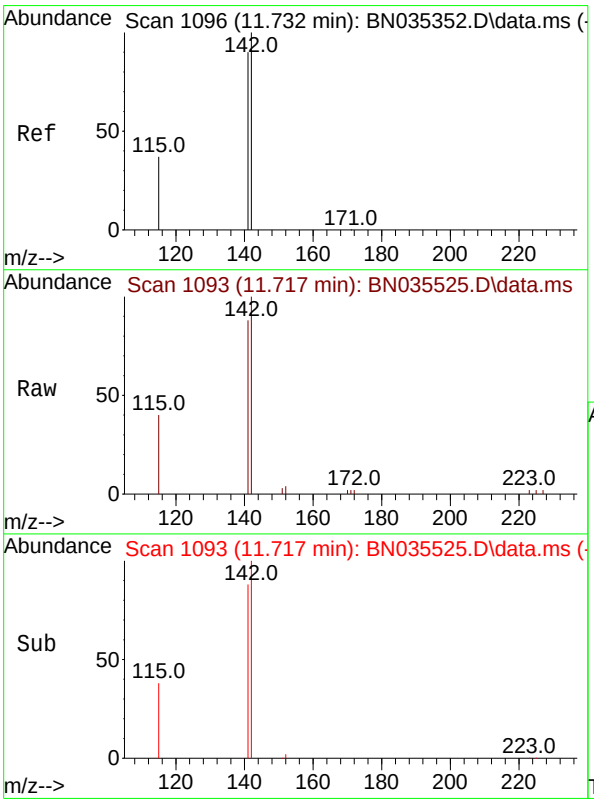
#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.641 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3832

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

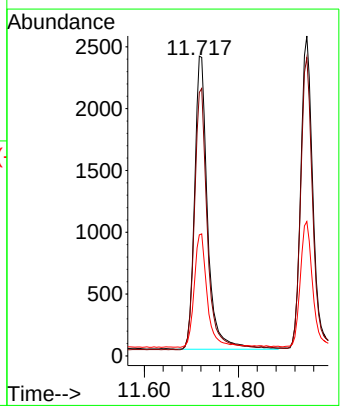


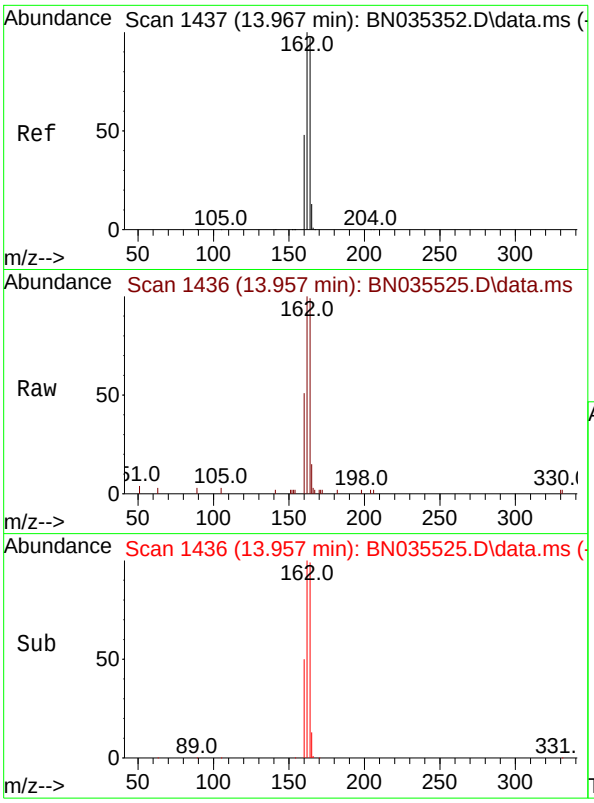


#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:142 Resp: 4569

Ion	Ratio	Lower	Upper
142	100		
141	87.9	72.2	108.4
115	40.4	31.4	47.0



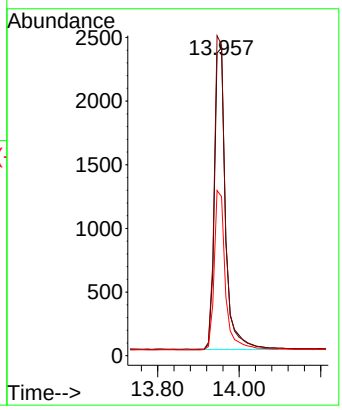


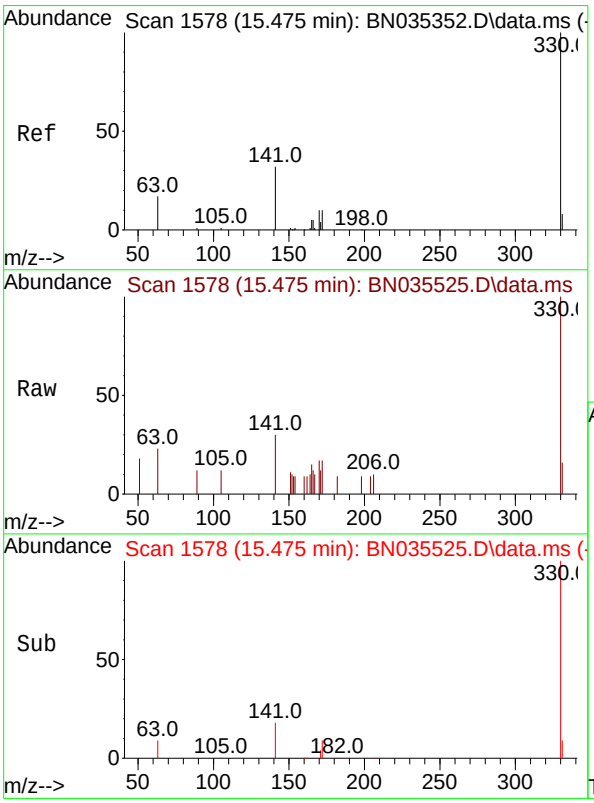
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4478

Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.2	123.2
160	51.7	40.1	60.1

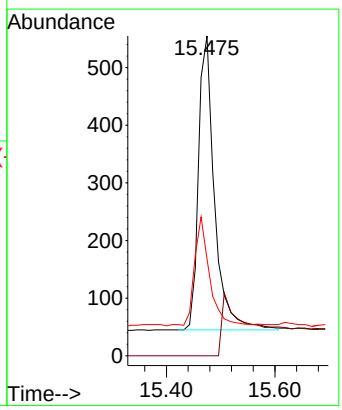


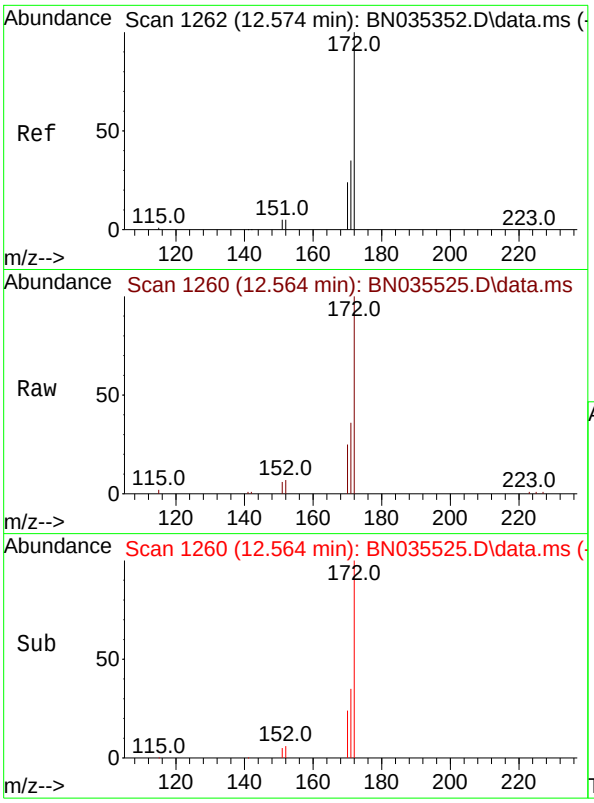


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:330 Resp: 1114

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



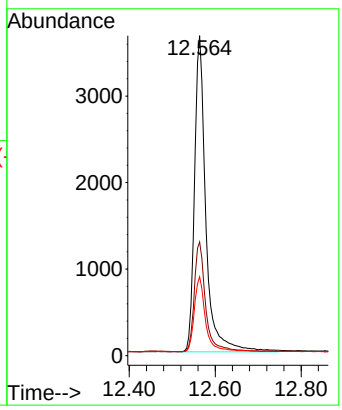


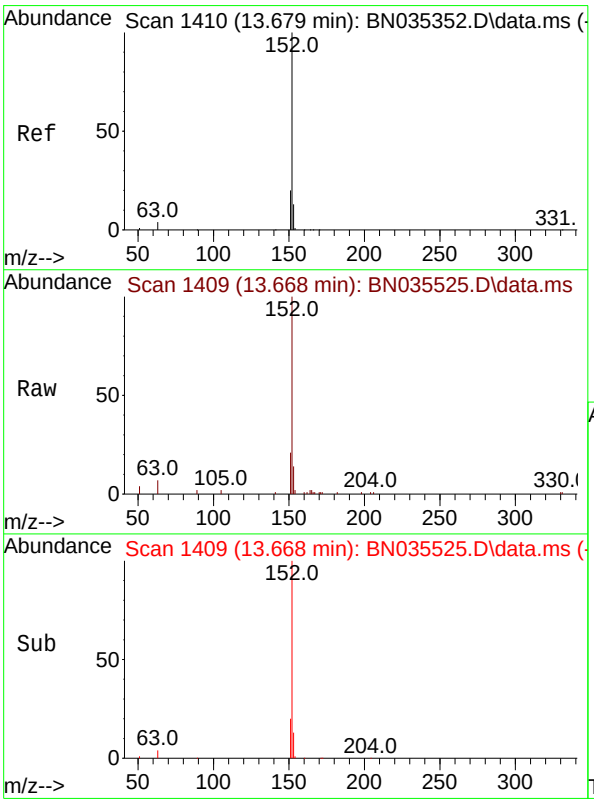
#15
2-Fluorobiphenyl
Concen: 0.396 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 6697

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.0	43.4
170	24.6	19.8	29.8

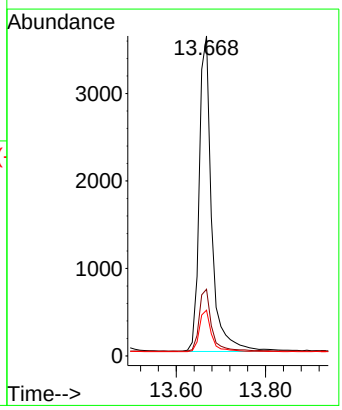


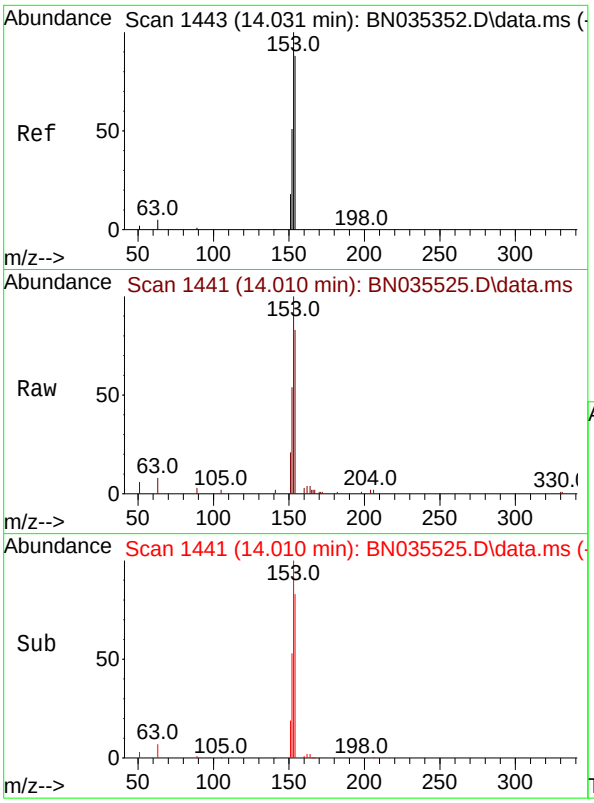


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:152 Resp: 6981

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.8	10.4	15.6



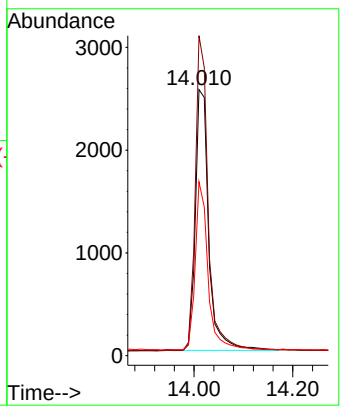


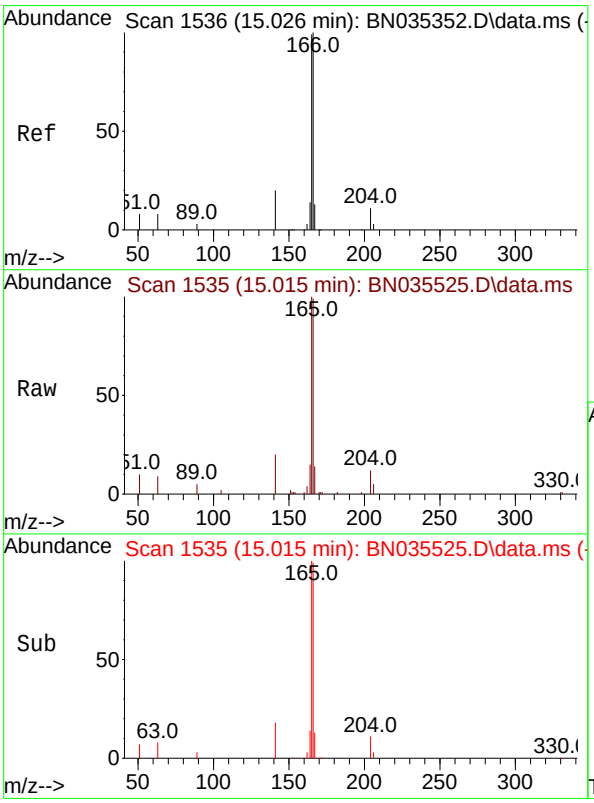
#17
Acenaphthene
Concen: 0.382 ng
RT: 14.010 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 4775

Ion	Ratio	Lower	Upper
154	100		
153	115.9	92.6	139.0
152	61.6	49.0	73.6

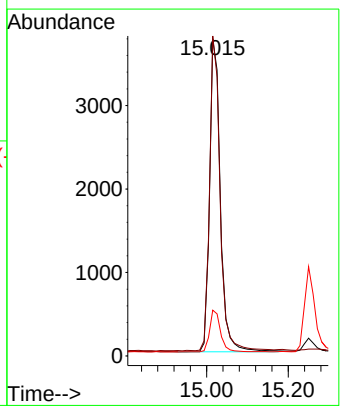


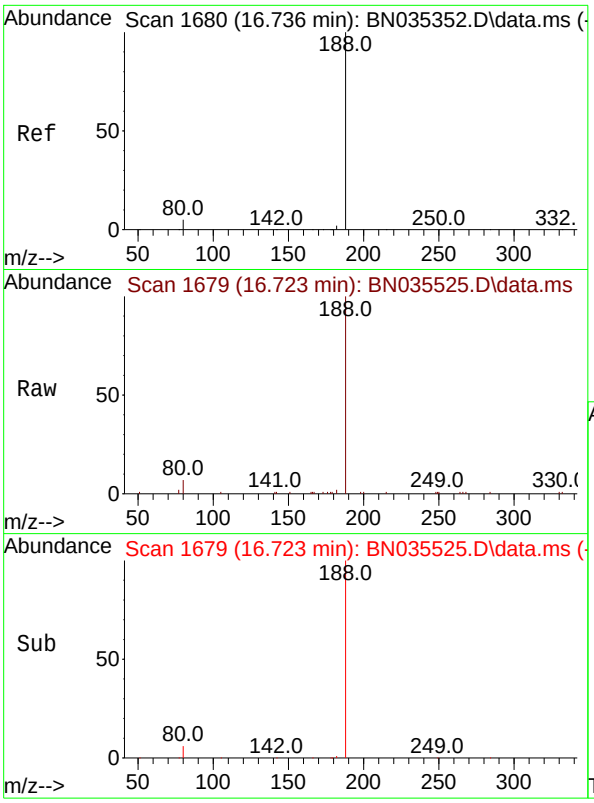


#18
Fluorene
Concen: 0.384 ng
RT: 15.015 min Scan# 1535
Delta R.T. -0.011 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:166 Resp: 6863

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.7	119.5
167	13.5	10.8	16.2



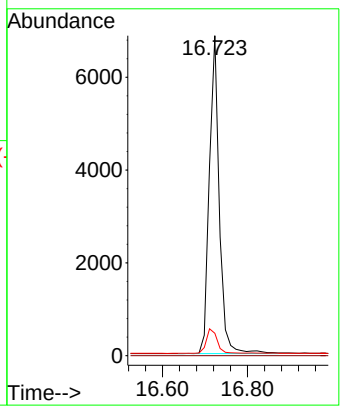


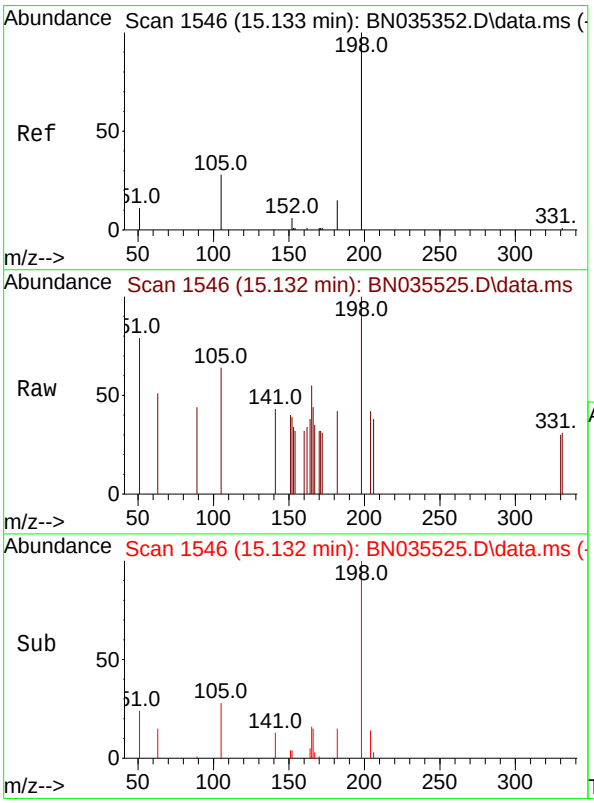
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11122

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.0	4.6	6.8#

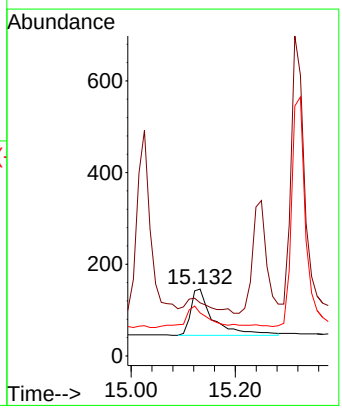


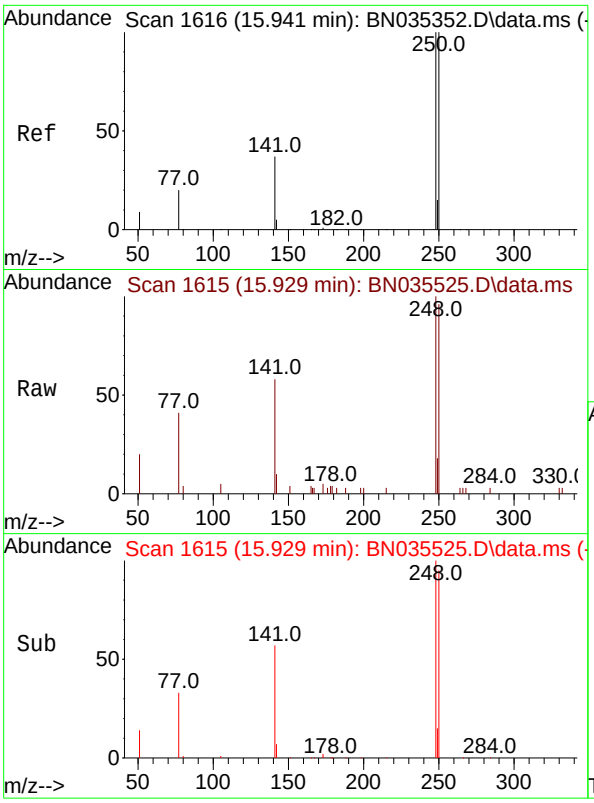


#20
4,6-Dinitro-2-methylphenol
Concen: 0.276 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:198 Resp: 302

Ion	Ratio	Lower	Upper
198	100		
51	79.5	46.5	69.7#
105	64.4	45.3	67.9



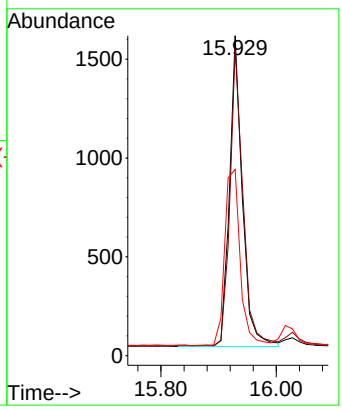


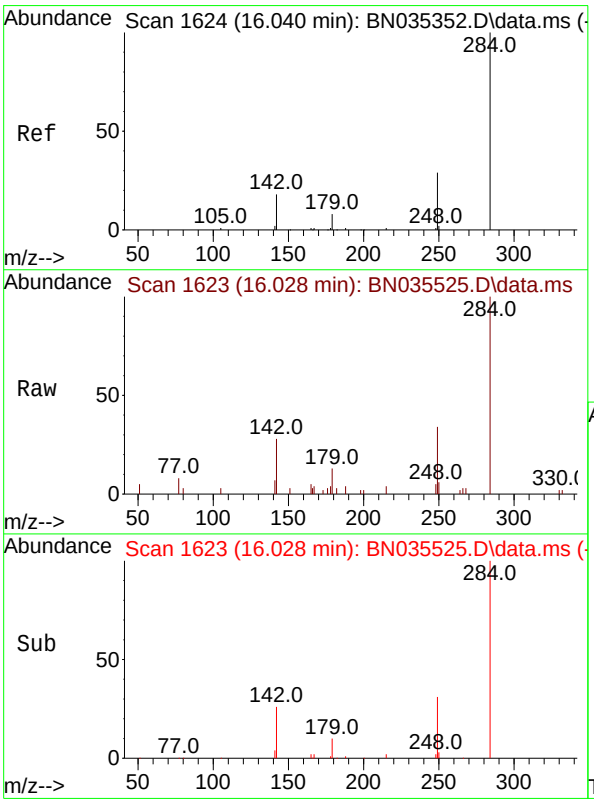
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2441

Ion	Ratio	Lower	Upper
248	100		
250	95.9	80.6	120.8
141	58.2	31.5	47.3#

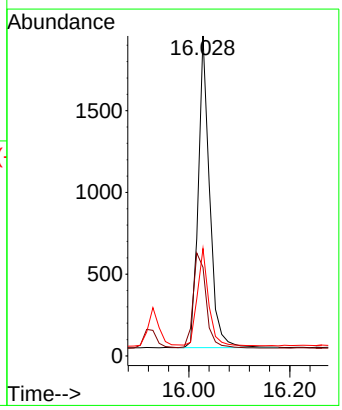


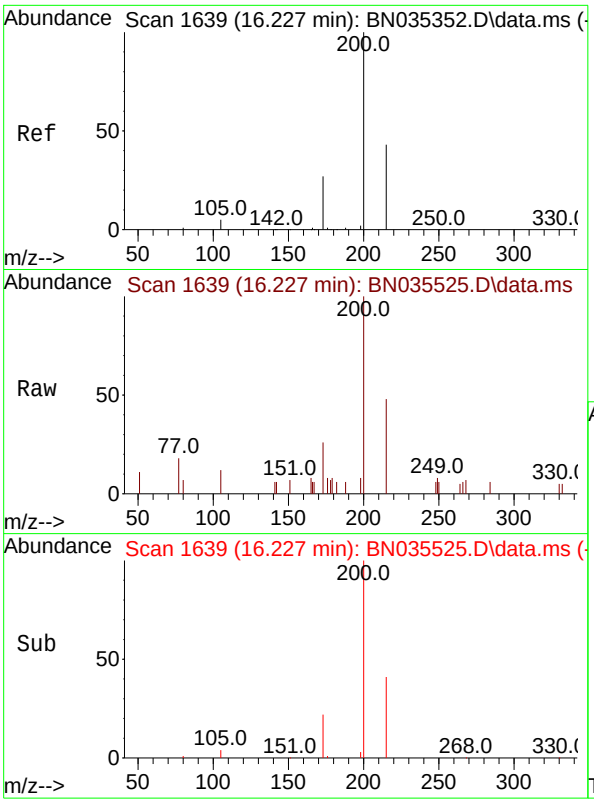


#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:284 Resp: 2985

Ion	Ratio	Lower	Upper
284	100		
142	35.0	26.7	40.1
249	31.2	24.6	36.8



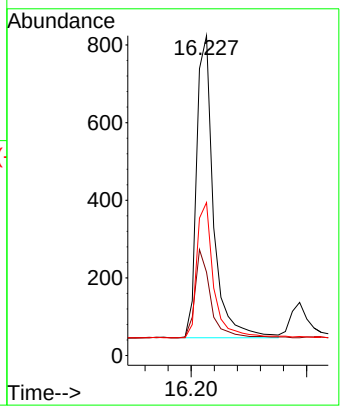


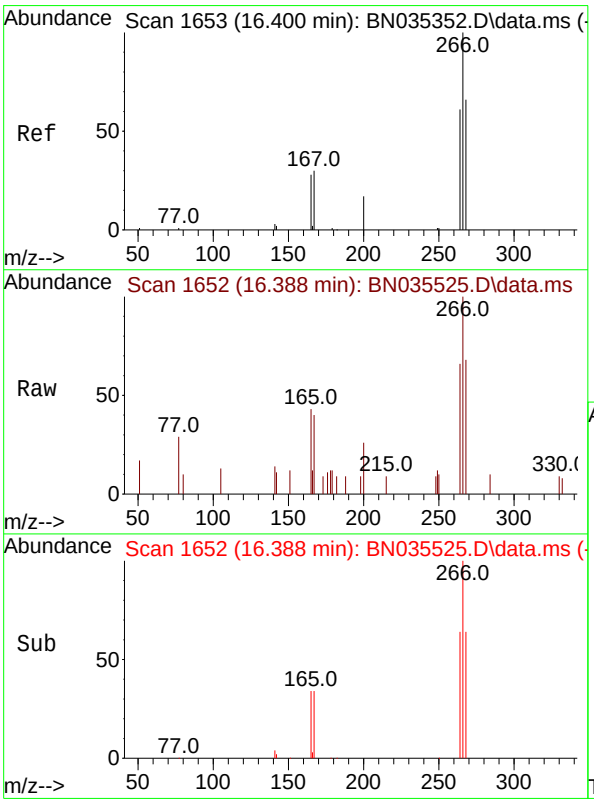
#23
Atrazine
Concen: 0.341 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1581

Ion	Ratio	Lower	Upper
200	100		
173	26.1	24.1	36.1
215	47.8	36.9	55.3

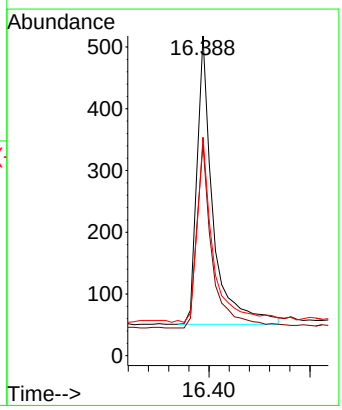


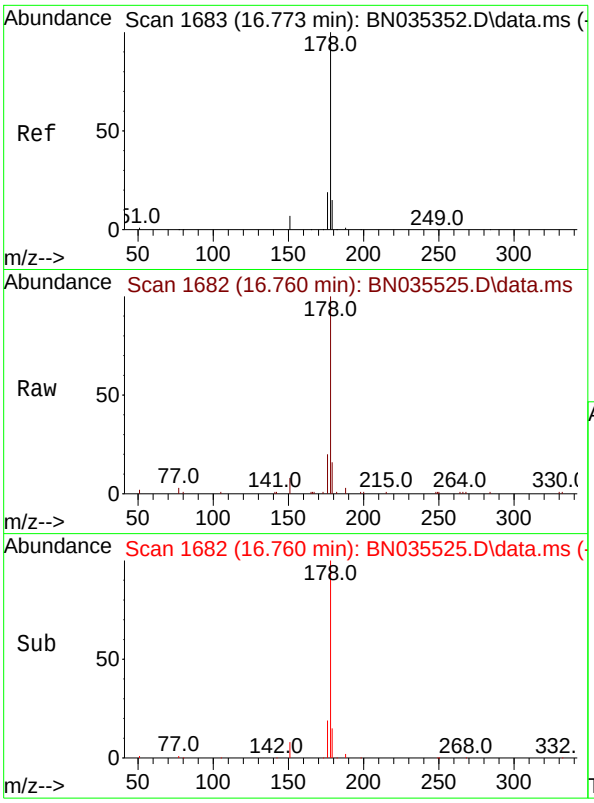


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:266 Resp: 1026

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	64.4	43.3	64.9



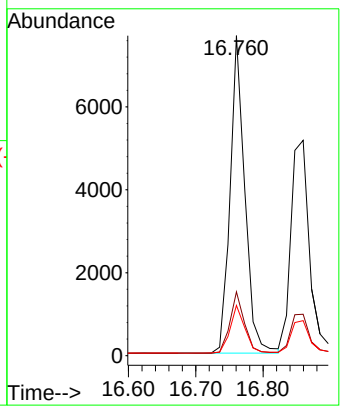


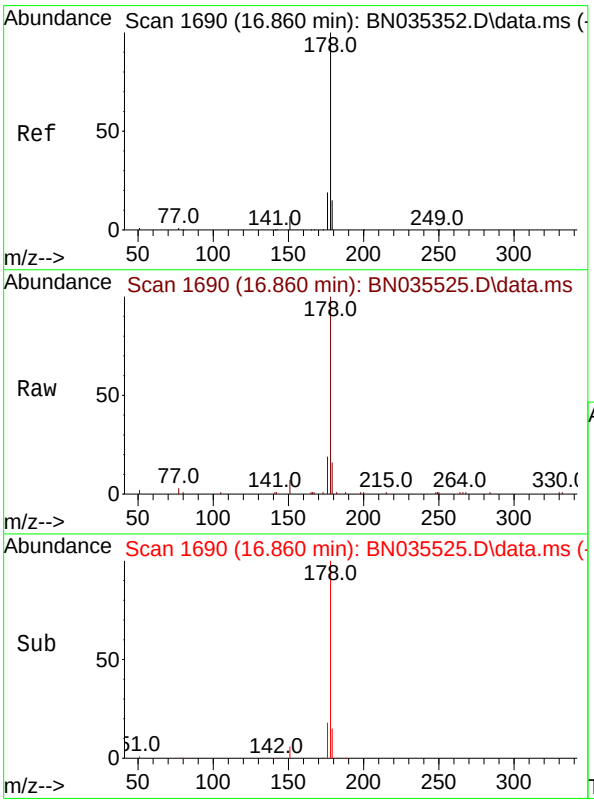
#25
Phenanthrene
Concen: 0.380 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11604

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.3	12.3	18.5

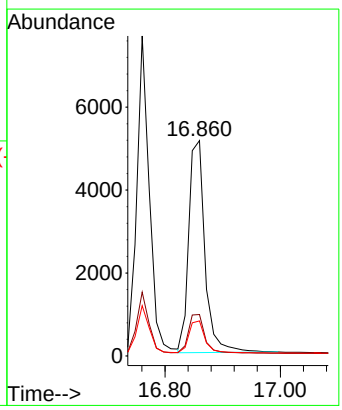


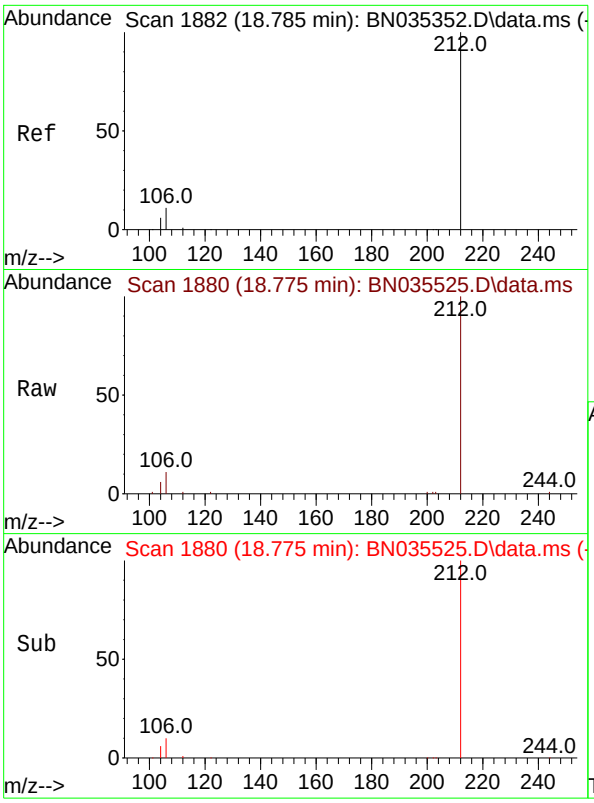


#26
Anthracene
Concen: 0.362 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:178 Resp: 9999

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



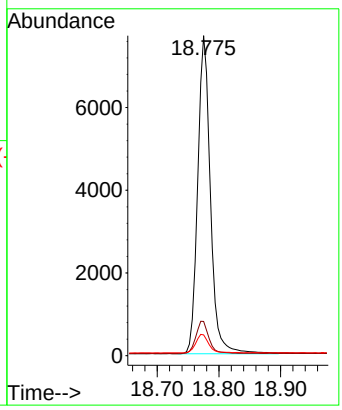


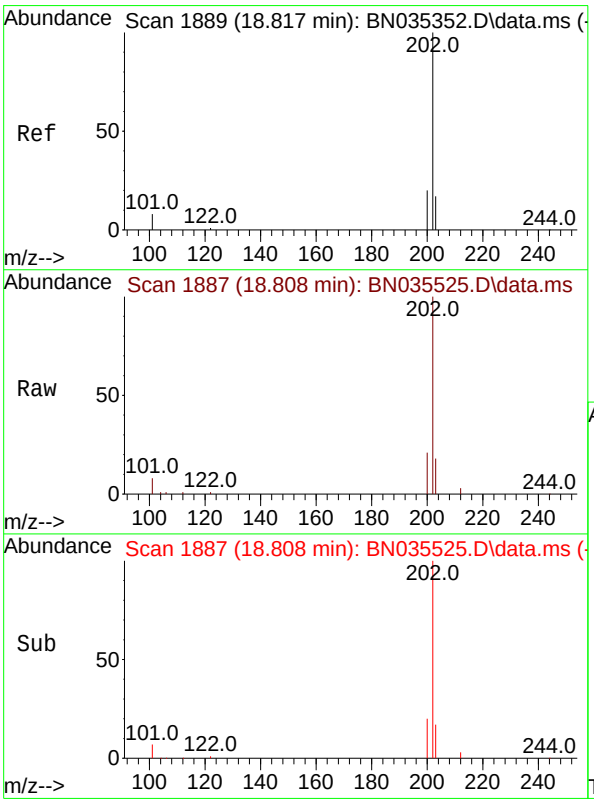
#27
Fluoranthene-d10
Concen: 0.351 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11062

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.2	13.8
104	5.9	5.3	7.9

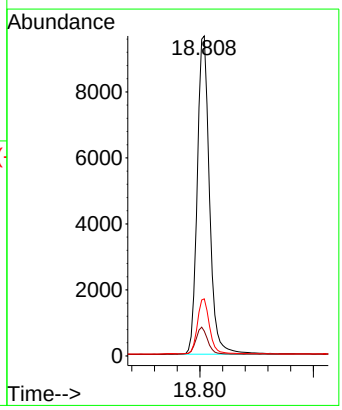


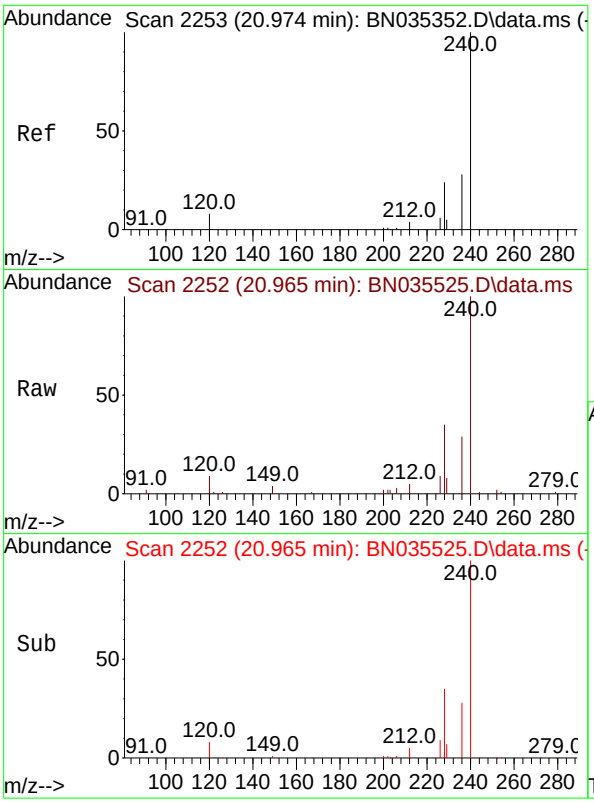


#28
Fluoranthene
Concen: 0.350 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14397

Ion	Ratio	Lower	Upper
202	100		
101	8.4	7.4	11.0
203	16.9	13.7	20.5



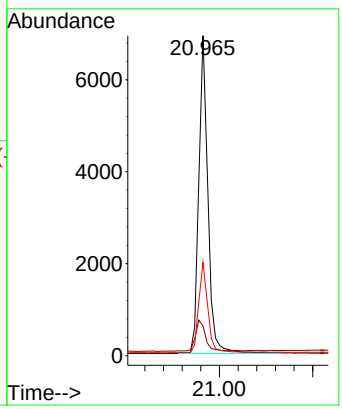


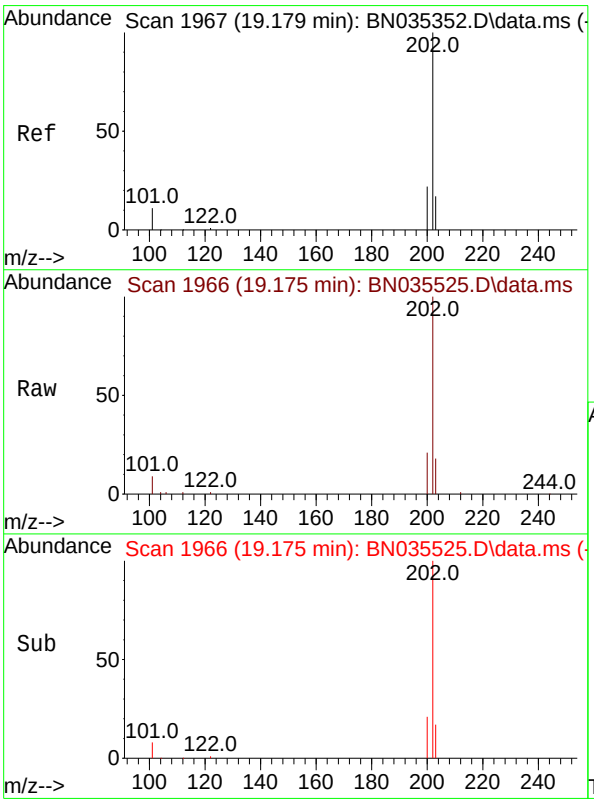
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9383

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.9	11.9
236	29.1	22.9	34.3

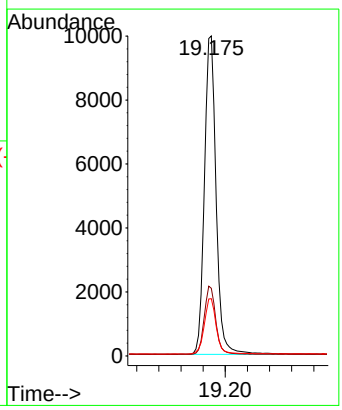


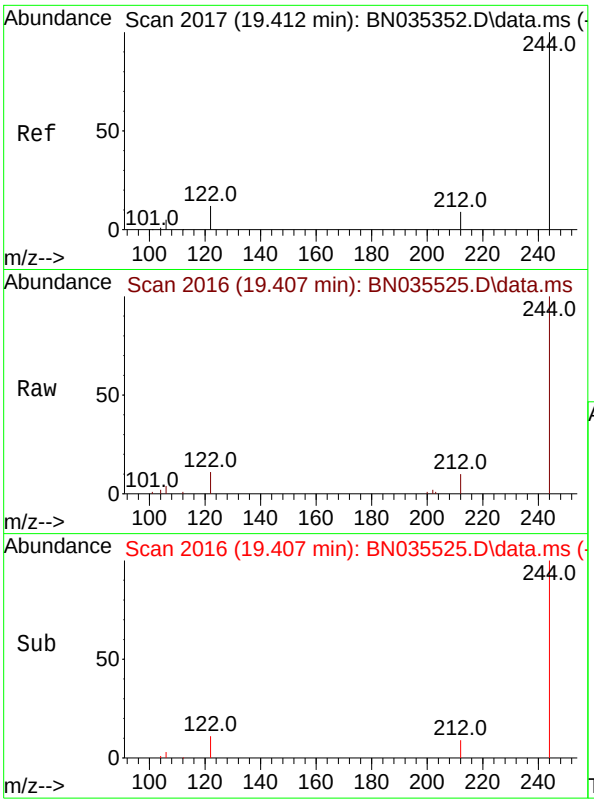


#30
Pyrene
Concen: 0.422 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:202 Resp: 14606

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.8	14.3	21.5



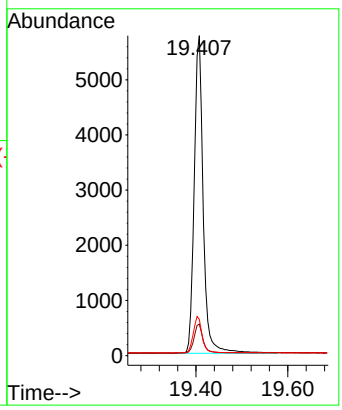


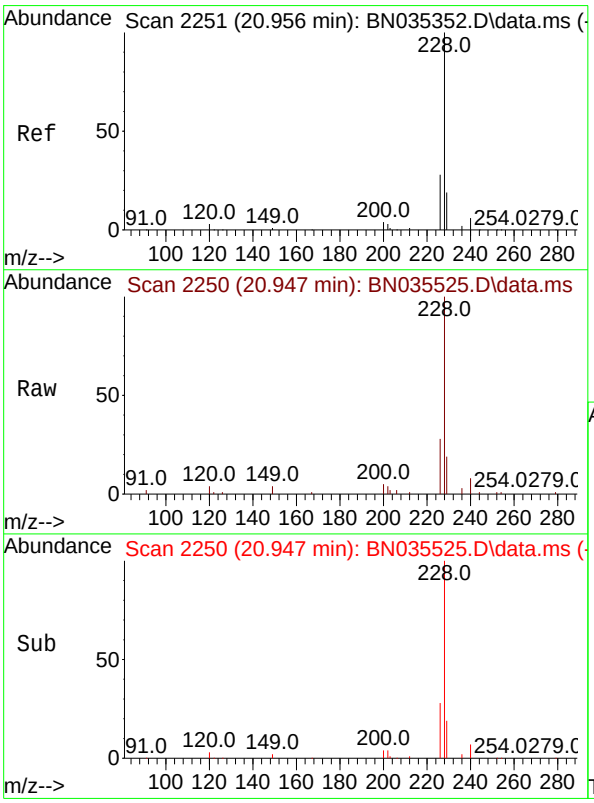
#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7824

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	11.3	10.3	15.5

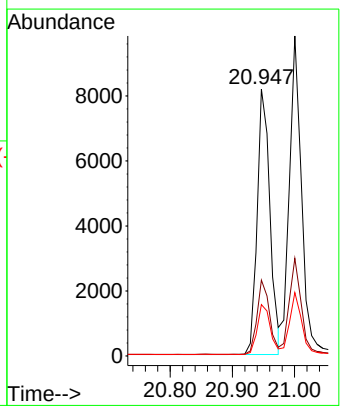


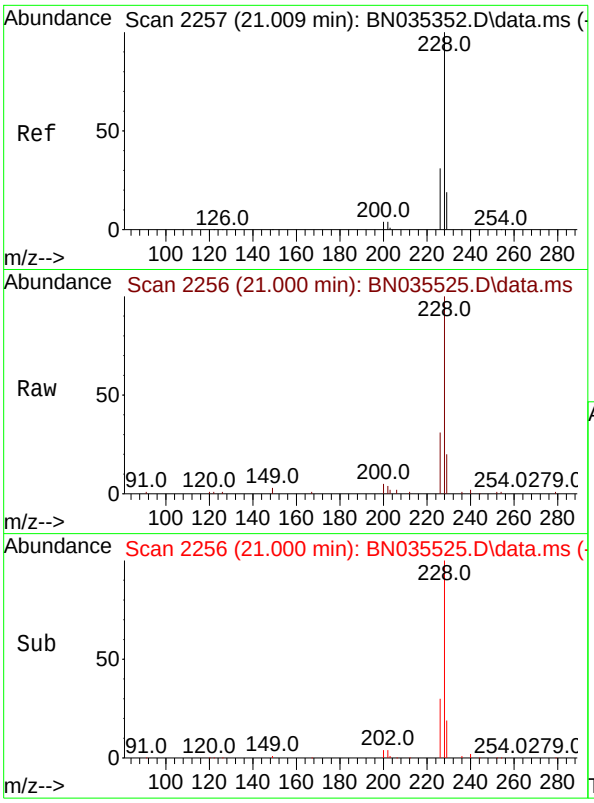


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:228 Resp: 11650

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	19.2	15.8	23.8



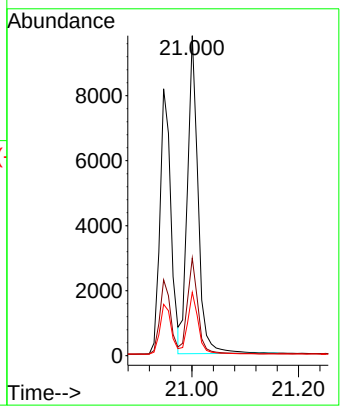


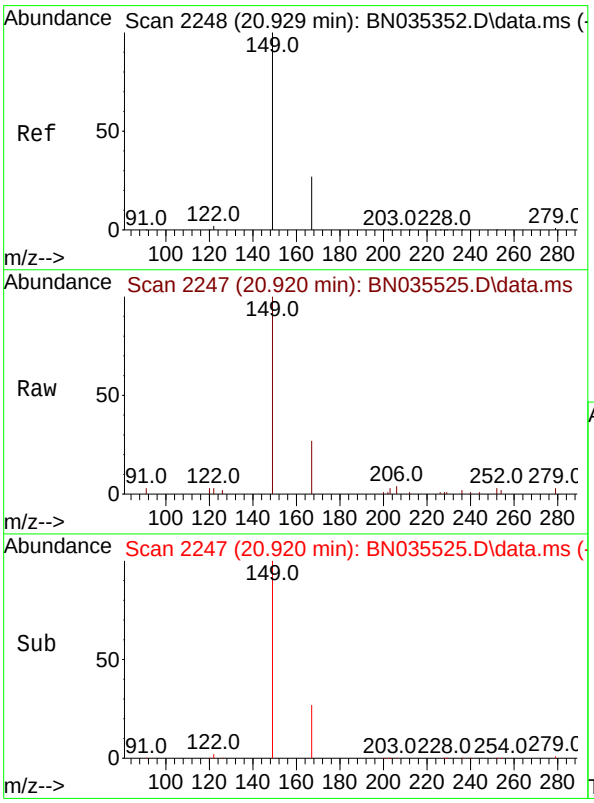
#33
Chrysene
Concen: 0.399 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 13503

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.8	15.9	23.9

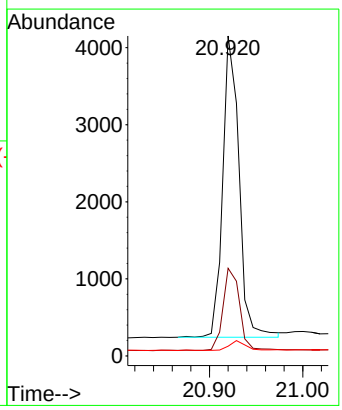


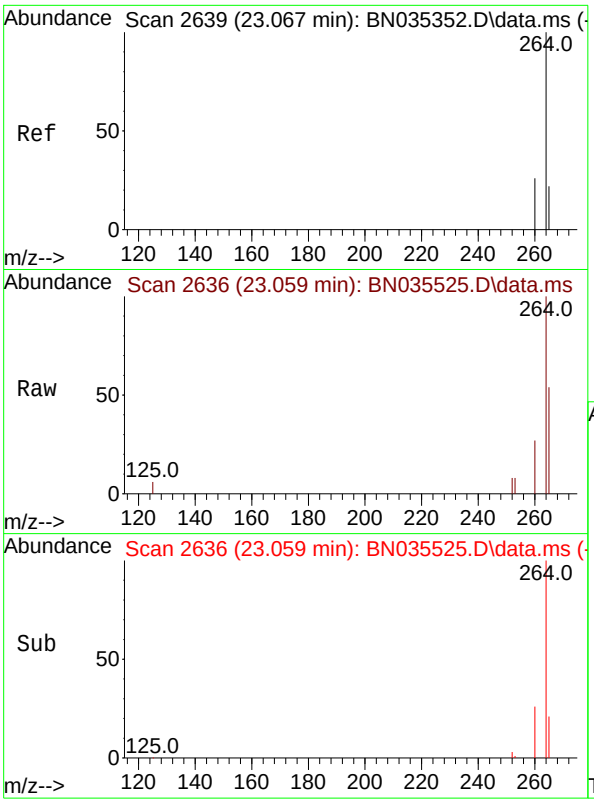


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:149 Resp: 4730

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1



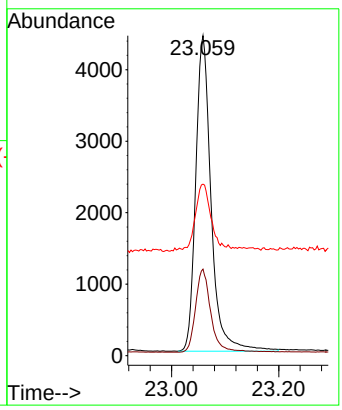


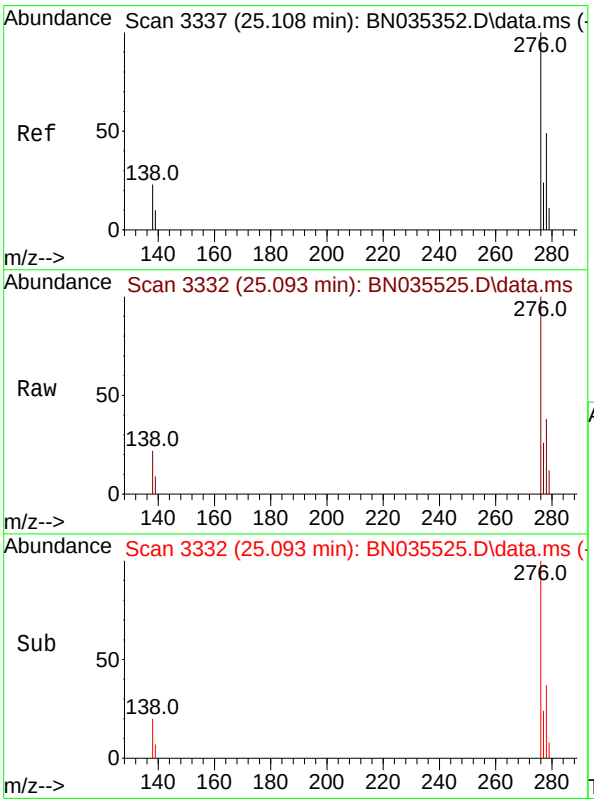
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8820

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	53.6	40.2	60.4

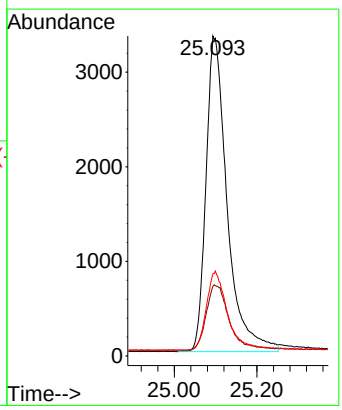


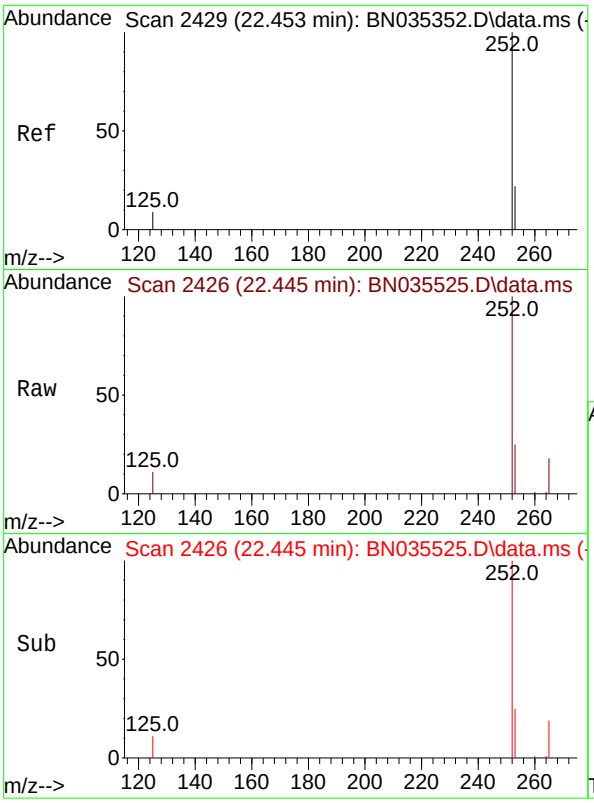


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.344 ng
RT: 25.093 min Scan# 3332
Delta R.T. -0.015 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:276 Resp: 11862

Ion	Ratio	Lower	Upper
276	100		
138	22.0	19.4	29.0
277	25.0	19.8	29.6



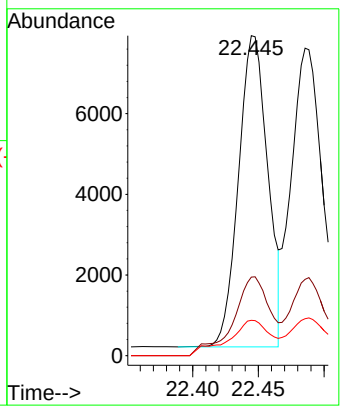


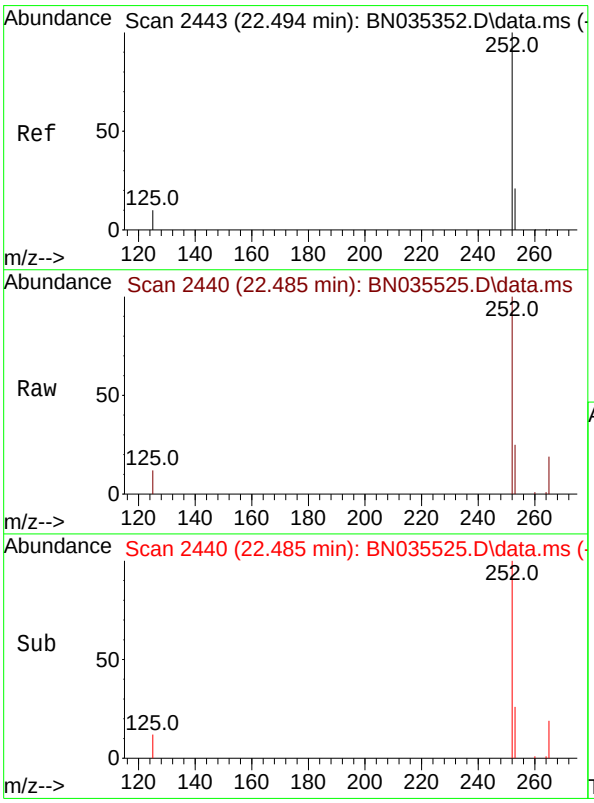
#37
Benzo(b)fluoranthene
Concen: 0.439 ng
RT: 22.445 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14172

Ion	Ratio	Lower	Upper
252	100		
253	24.6	19.6	29.4
125	11.1	9.6	14.4

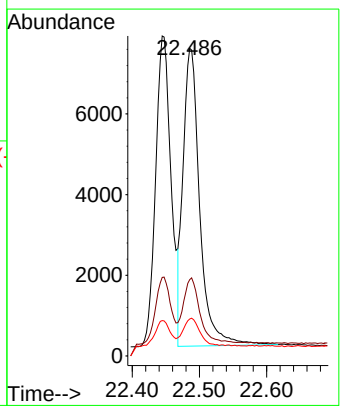


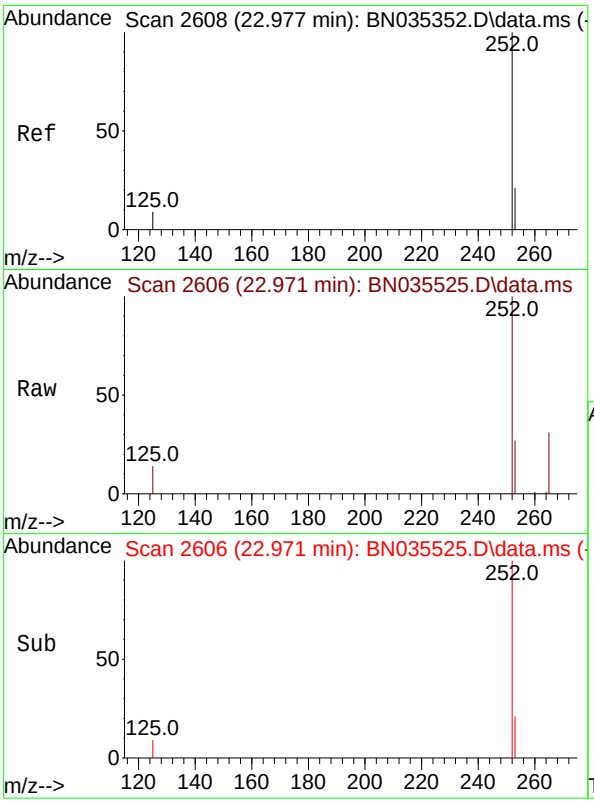


#38
Benzo(k)fluoranthene
Concen: 0.400 ng
RT: 22.485 min Scan# 2440
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:252 Resp: 12715

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.0	10.2	15.4



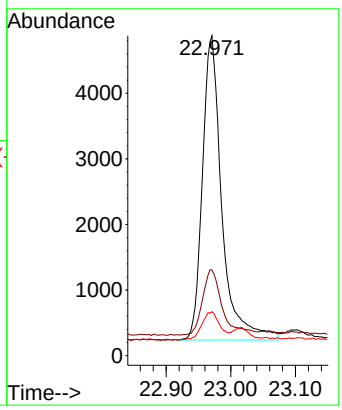


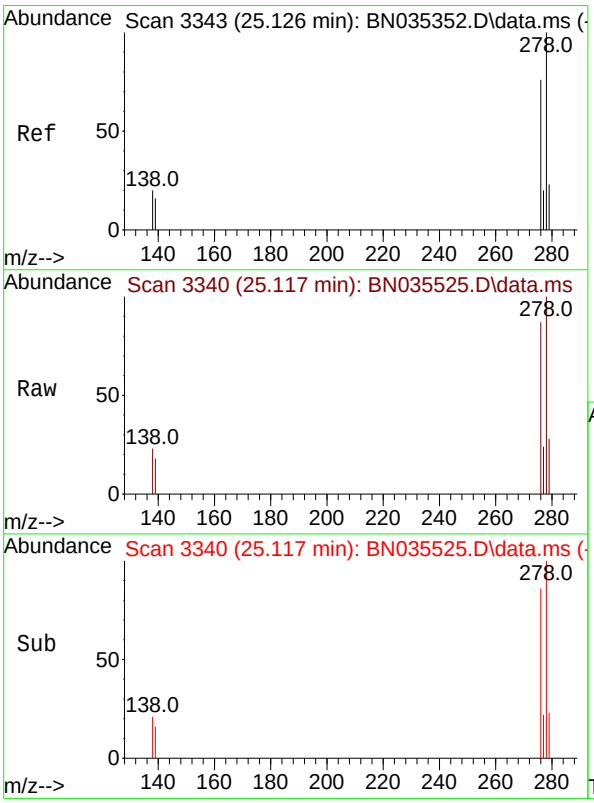
#39
Benzo(a)pyrene
Concen: 0.364 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9673

Ion	Ratio	Lower	Upper
252	100		
253	26.8	20.2	30.4
125	13.8	10.9	16.3

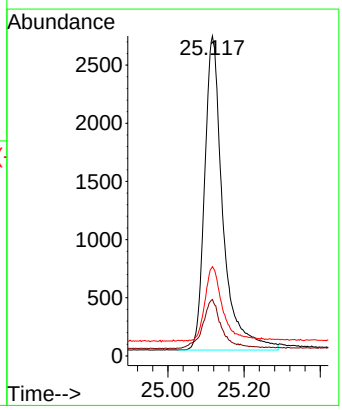


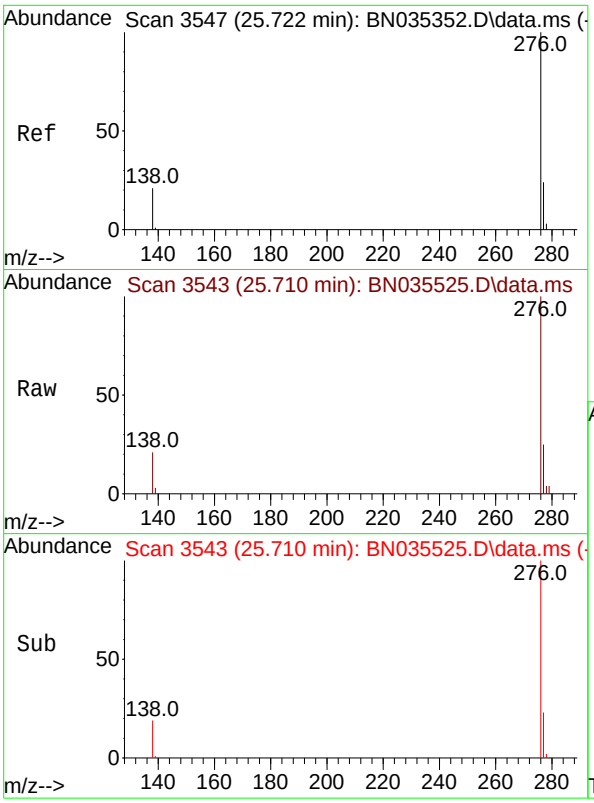


#40
Dibenzo(a,h)anthracene
Concen: 0.329 ng
RT: 25.117 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Tgt Ion:278 Resp: 8943

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	27.9	20.5	30.7



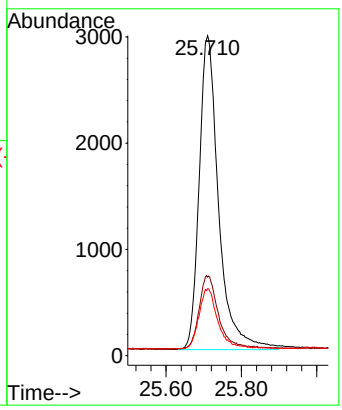


#41
Benzo(g,h,i)perylene
Concen: 0.372 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035525.D
Acq: 10 Dec 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 10586

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.9	29.9
138	21.0	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035527.D
Acq On : 10 Dec 2024 10:45
Operator : RC/JU
Sample : P5166-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Quant Time: Dec 10 12:28:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

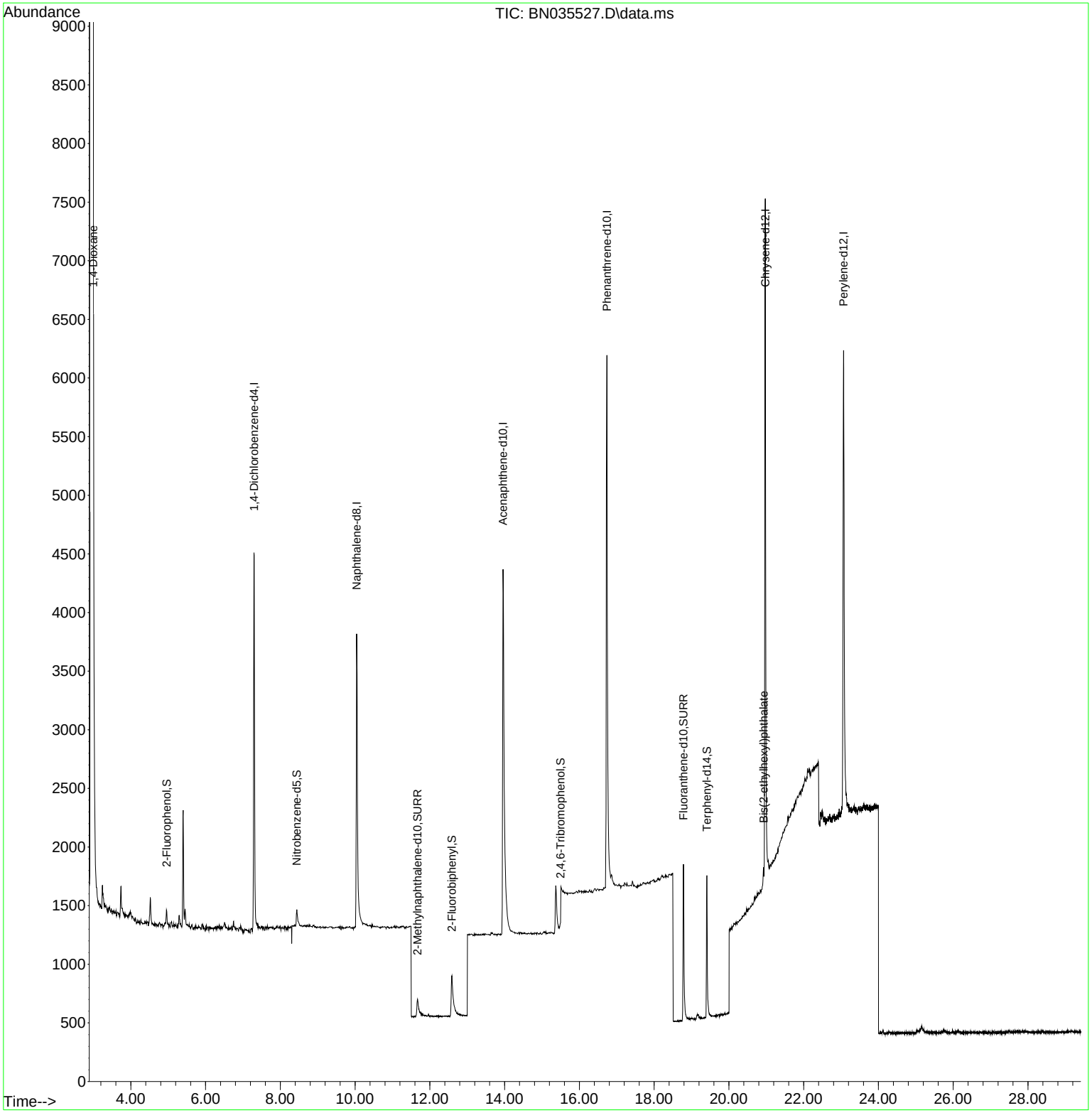
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1780	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4601	0.400	ng	-0.01
13) Acenaphthene-d10	13.957	164	3512	0.400	ng	-0.01
19) Phenanthrene-d10	16.736	188	9370	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6994	0.400	ng	0.00
35) Perylene-d12	23.067	264	6330	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	130	0.029	ng	0.00
5) Phenol-d6	6.506	99	82	0.015	ng	0.00
8) Nitrobenzene-d5	8.440	82	326	0.116	ng	0.00
11) 2-Methylnaphthalene-d10	11.671	152	499	0.069	ng	0.02
14) 2,4,6-Tribromophenol	15.496	330	104	0.042	ng	0.02
15) 2-Fluorobiphenyl	12.589	172	825	0.062	ng	0.02
27) Fluoranthene-d10	18.785	212	2053	0.077	ng	0.00
31) Terphenyl-d14	19.412	244	1573	0.114	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.996	88	2988	1.756	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	214	0.022	ng	# 85

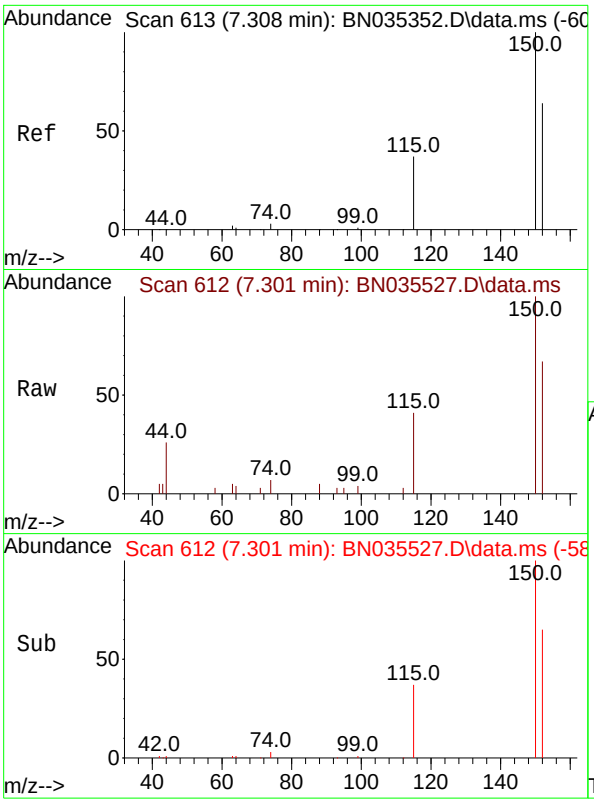
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035527.D
Acq On : 10 Dec 2024 10:45
Operator : RC/JU
Sample : P5166-04DL 5X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Quant Time: Dec 10 12:28:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



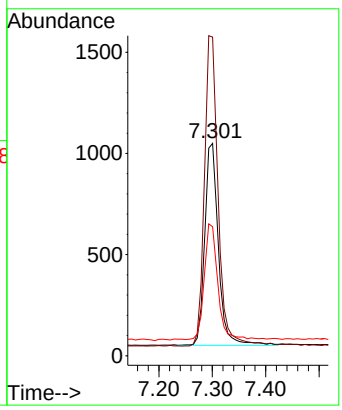


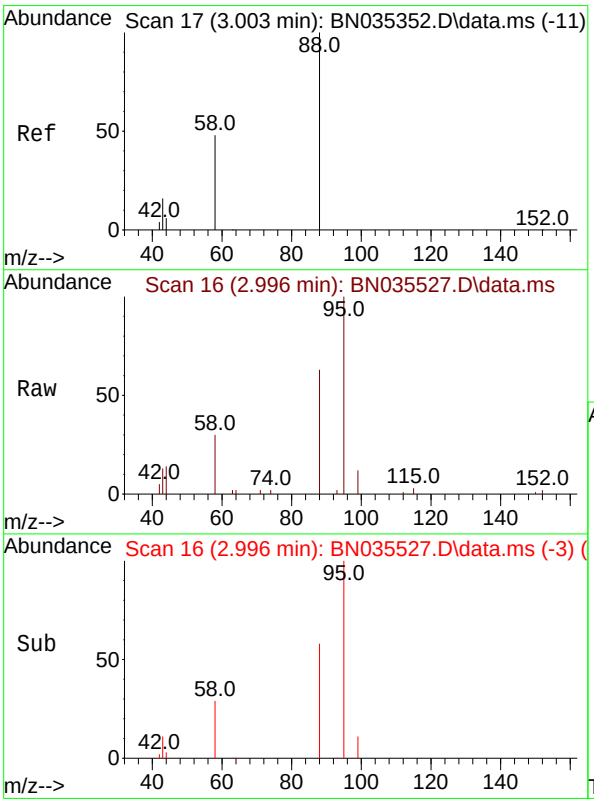
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:152 Resp: 1780

Ion	Ratio	Lower	Upper
152	100		
150	150.0	124.0	186.0
115	60.8	49.6	74.4

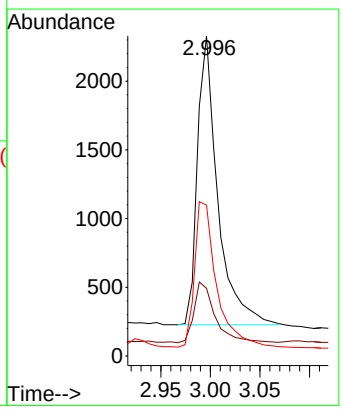


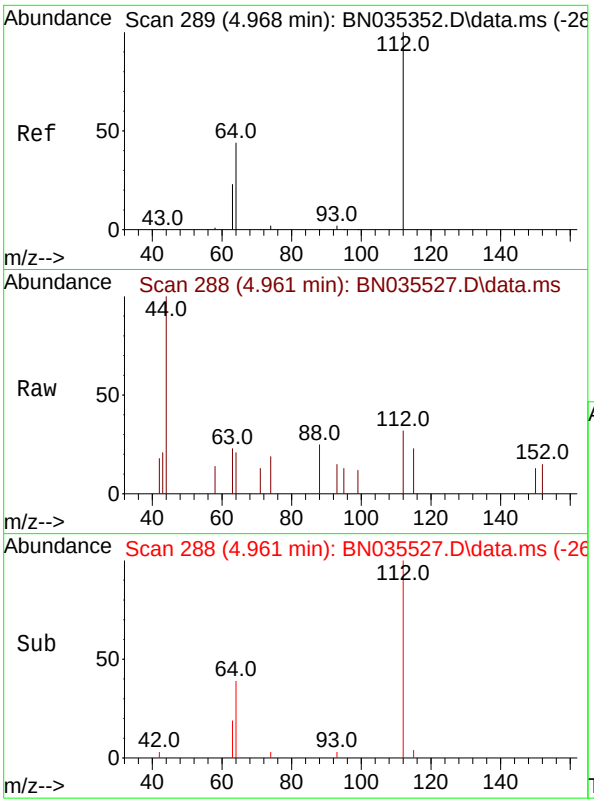


#2
1,4-Dioxane
Concen: 1.756 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 88 Resp: 2988

Ion	Ratio	Lower	Upper
88	100		
43	21.4	17.2	25.8
58	54.5	44.5	66.7



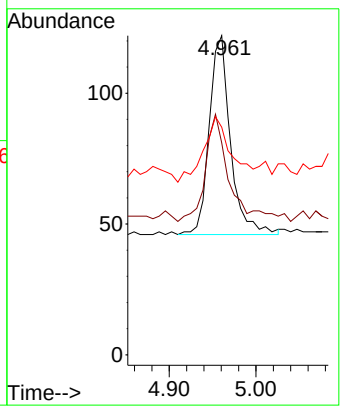


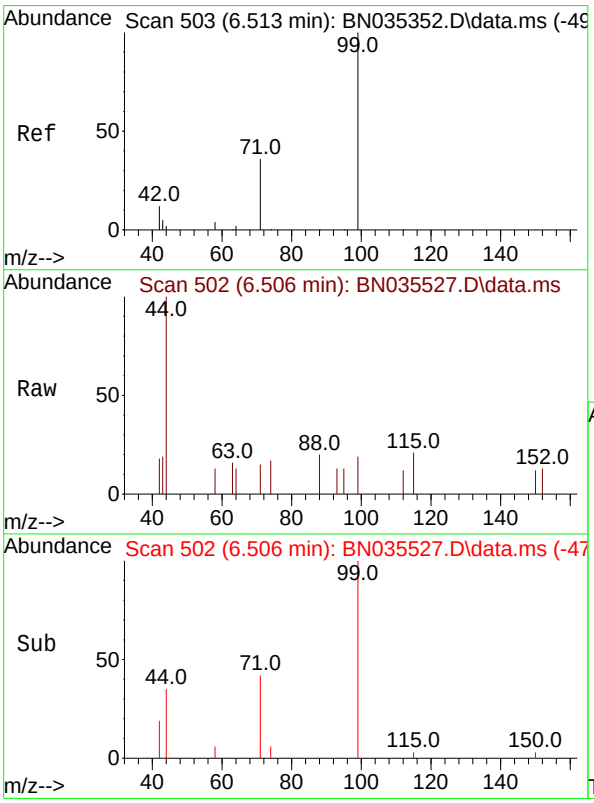
#4
2-Fluorophenol
Concen: 0.029 ng
RT: 4.961 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:112 Resp: 130

Ion	Ratio	Lower	Upper
112	100		
64	60.0	39.8	59.8#
63	42.3	21.0	31.6#

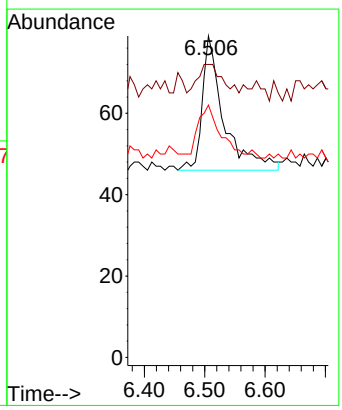


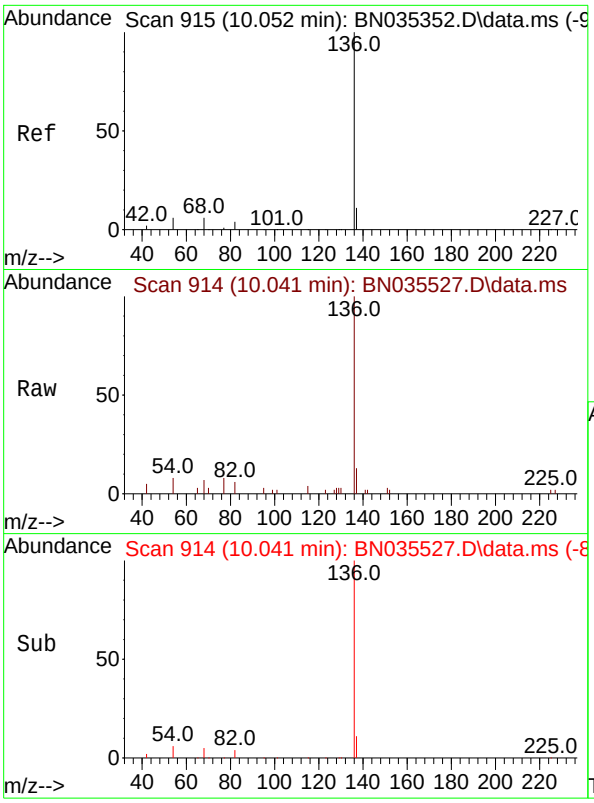


#5
Phenol-d6
Concen: 0.015 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 99 Resp: 82

Ion	Ratio	Lower	Upper
99	100		
42	22.0	11.4	17.2#
71	34.1	29.3	43.9



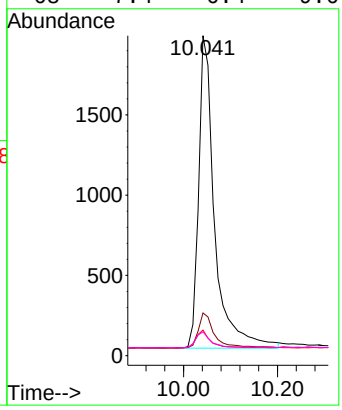


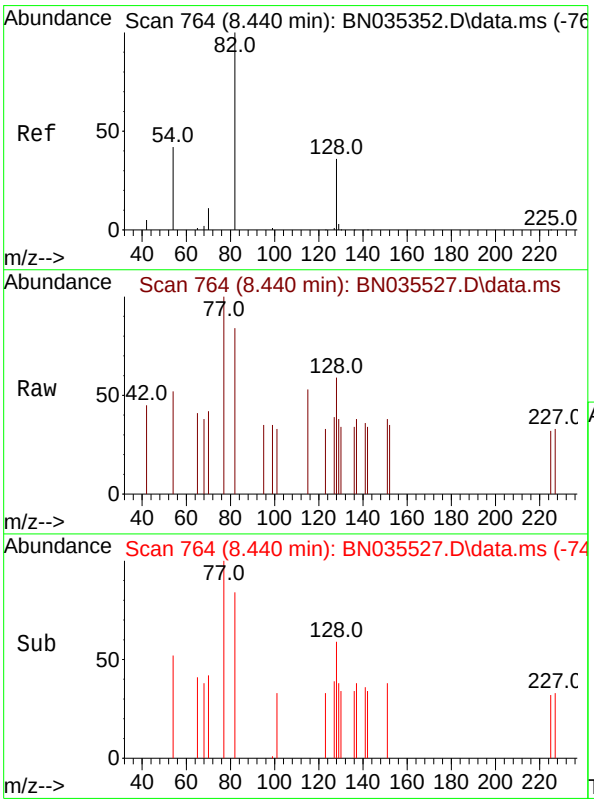
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:136 Resp: 4601

Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.2	15.2
54	8.0	6.1	9.1
68	7.4	6.4	9.6

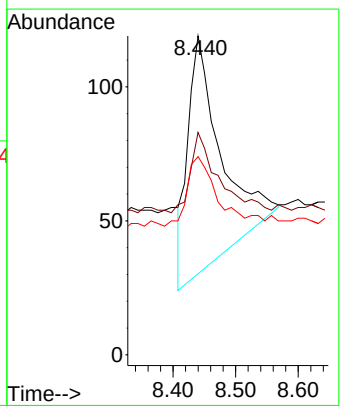


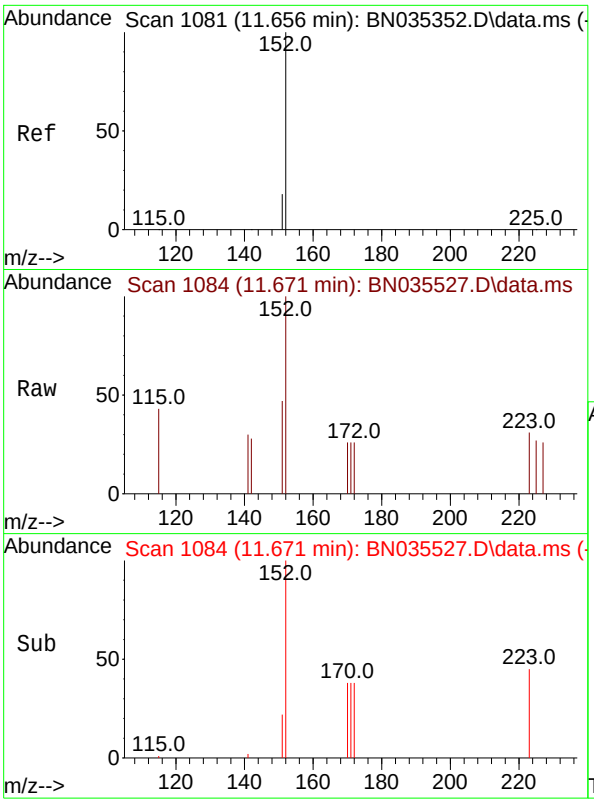


#8
Nitrobenzene-d5
Concen: 0.116 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion: 82 Resp: 326

Ion	Ratio	Lower	Upper
82	100		
128	69.7	33.4	50.0#
54	62.2	36.7	55.1#



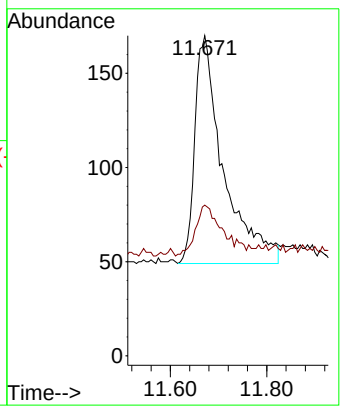


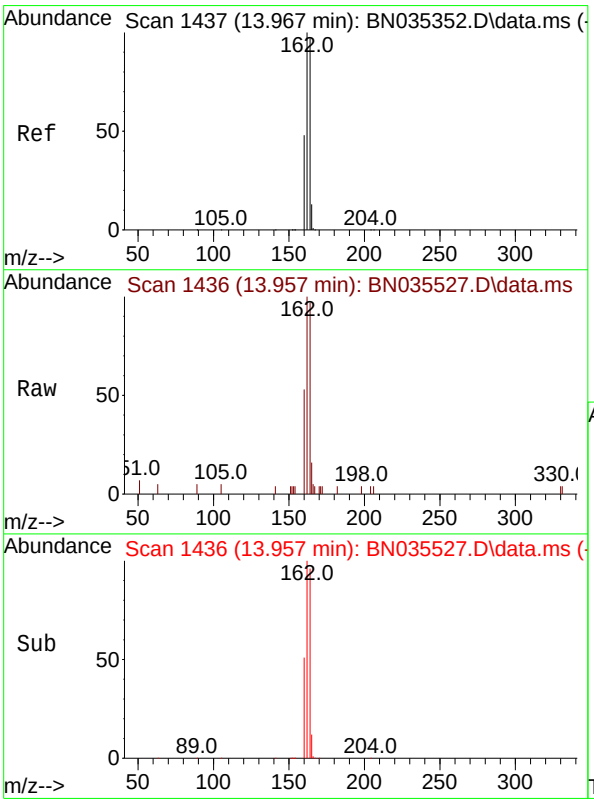
#11
2-Methylnaphthalene-d10
Concen: 0.069 ng
RT: 11.671 min Scan# 1
Delta R.T. 0.015 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:152 Resp: 499

Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.6	25.0

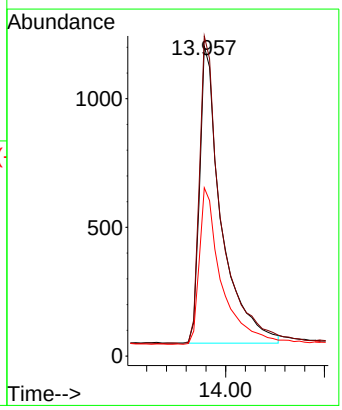


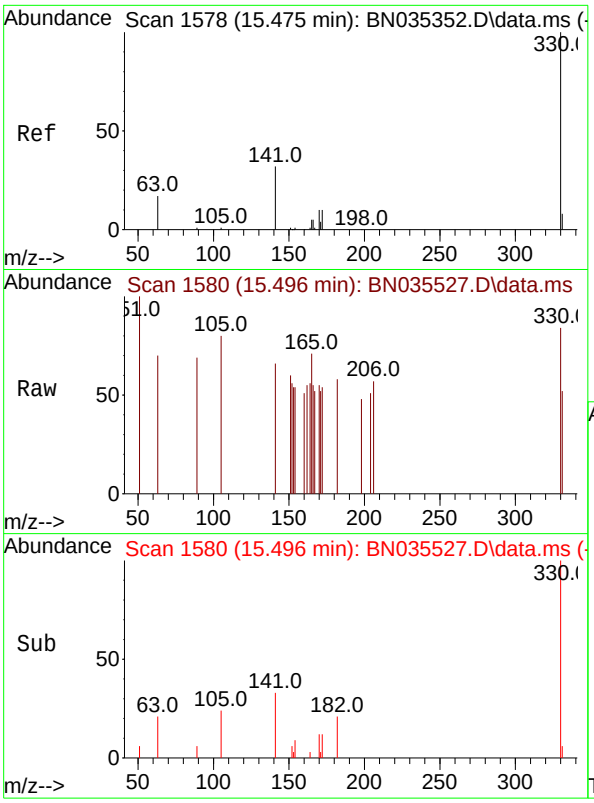


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:164 Resp: 3512

Ion	Ratio	Lower	Upper
164	100		
162	103.3	82.2	123.2
160	54.3	40.1	60.1



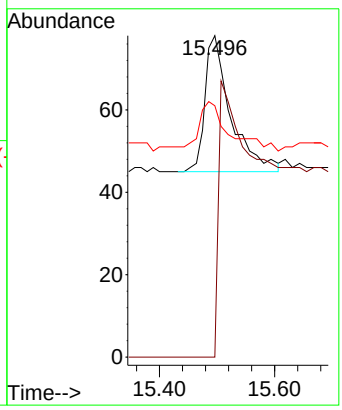


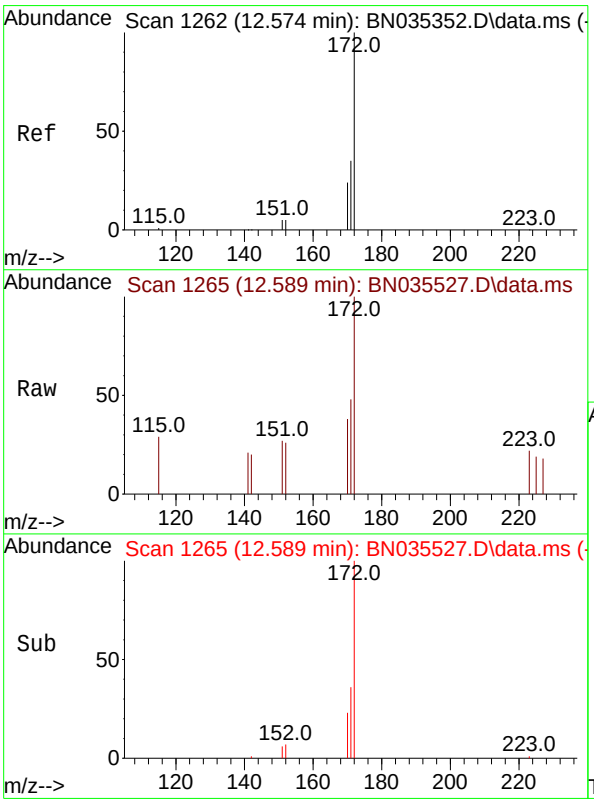
#14
2,4,6-Tribromophenol
Concen: 0.042 ng
RT: 15.496 min Scan# 1
Delta R.T. 0.021 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:330 Resp: 104

Ion	Ratio	Lower	Upper
330	100		
332	329.8	0.0	0.0#
141	0.0	26.6	40.0#

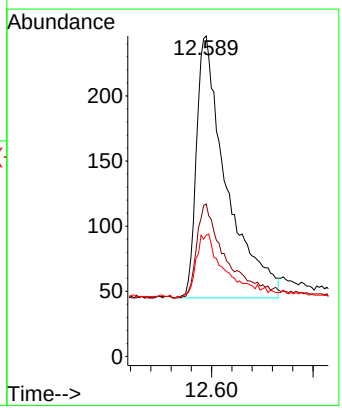


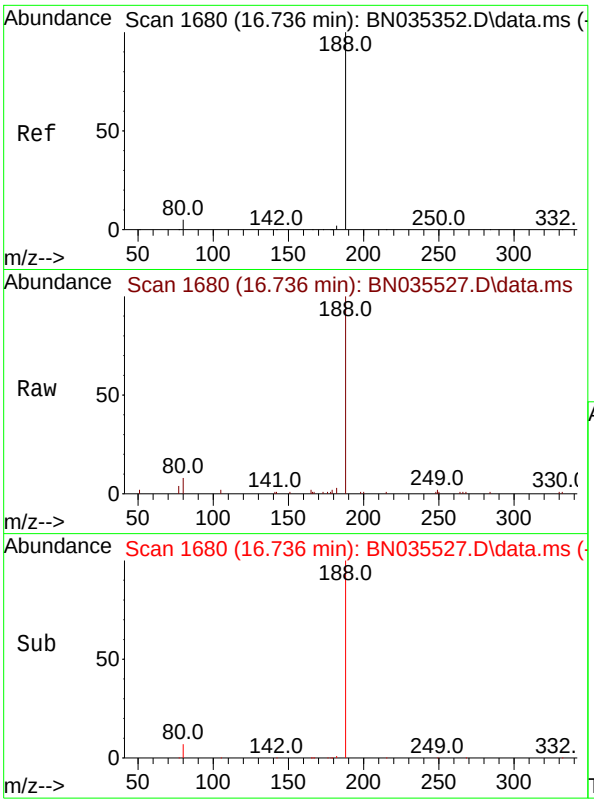


#15
2-Fluorobiphenyl
Concen: 0.062 ng
RT: 12.589 min Scan# 1265
Delta R.T. 0.015 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:172 Resp: 825

Ion	Ratio	Lower	Upper
172	100		
171	47.6	29.0	43.4#
170	37.8	19.8	29.8#



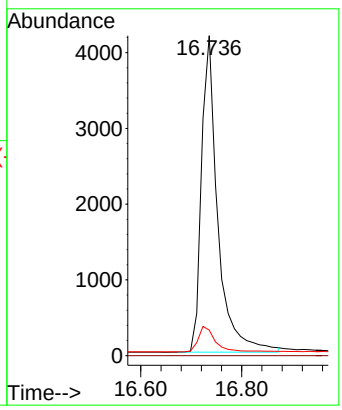


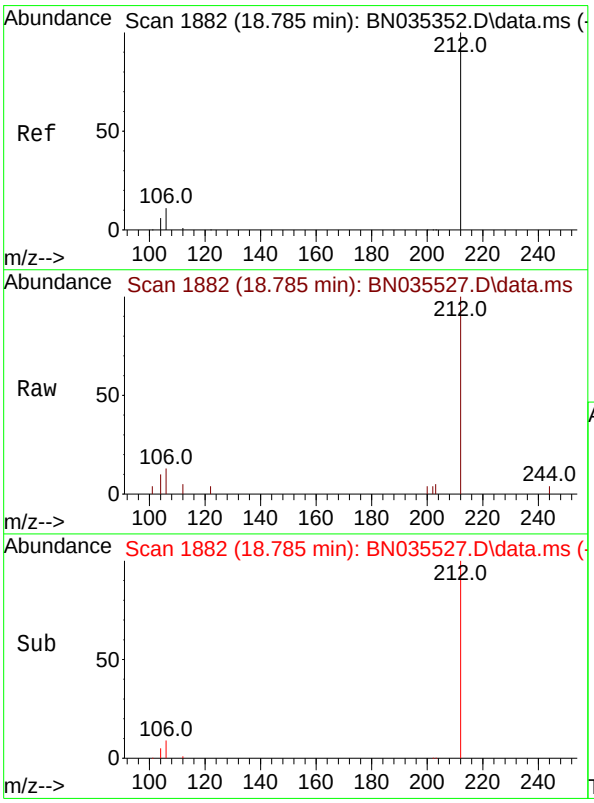
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:188 Resp: 9370

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.0	4.6	6.8#

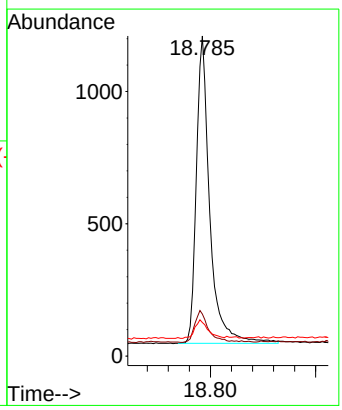


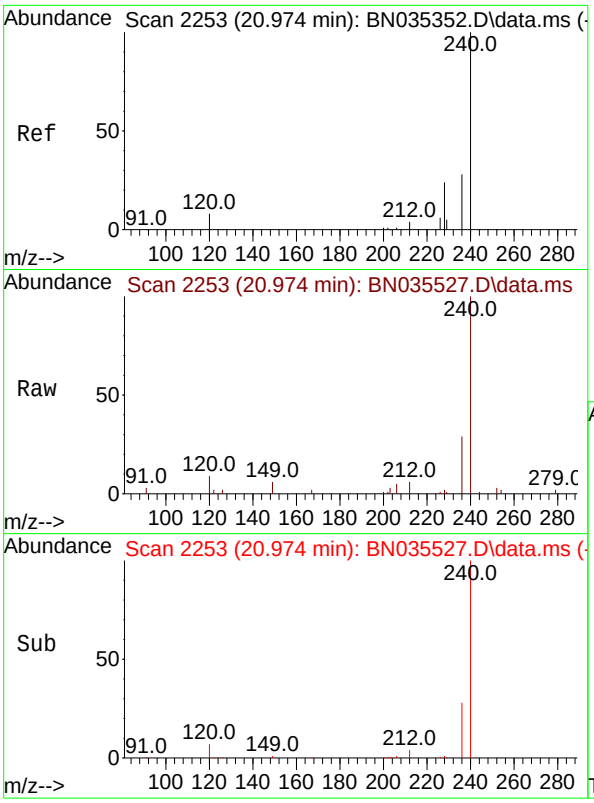


#27
Fluoranthene-d10
Concen: 0.077 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:212 Resp: 2053

Ion	Ratio	Lower	Upper
212	100		
106	10.2	9.2	13.8
104	5.7	5.3	7.9



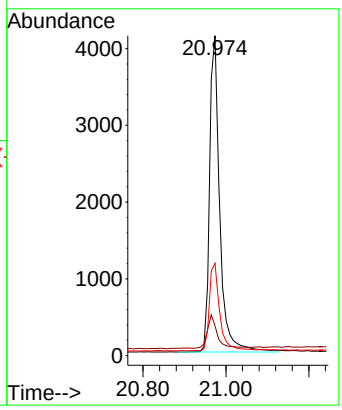


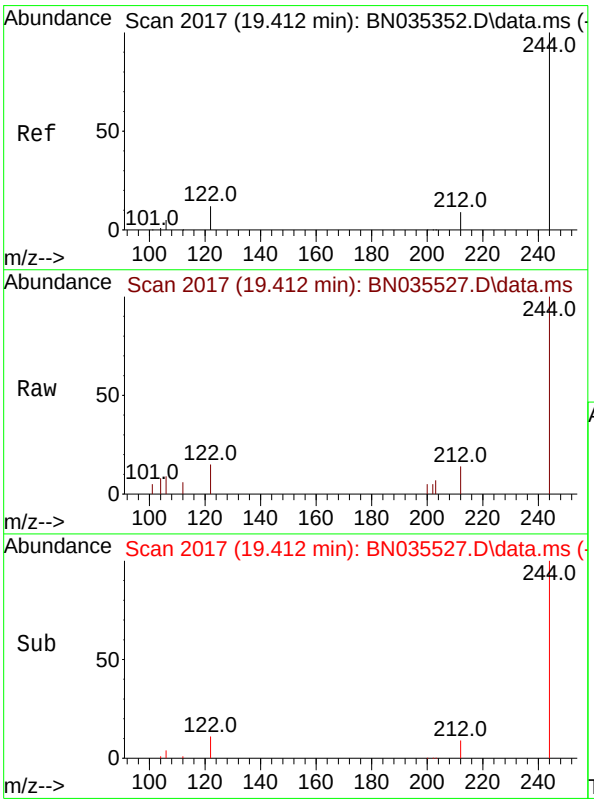
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:240 Resp: 6994

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.9	11.9
236	28.9	22.9	34.3

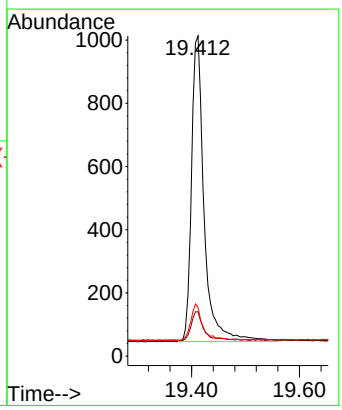


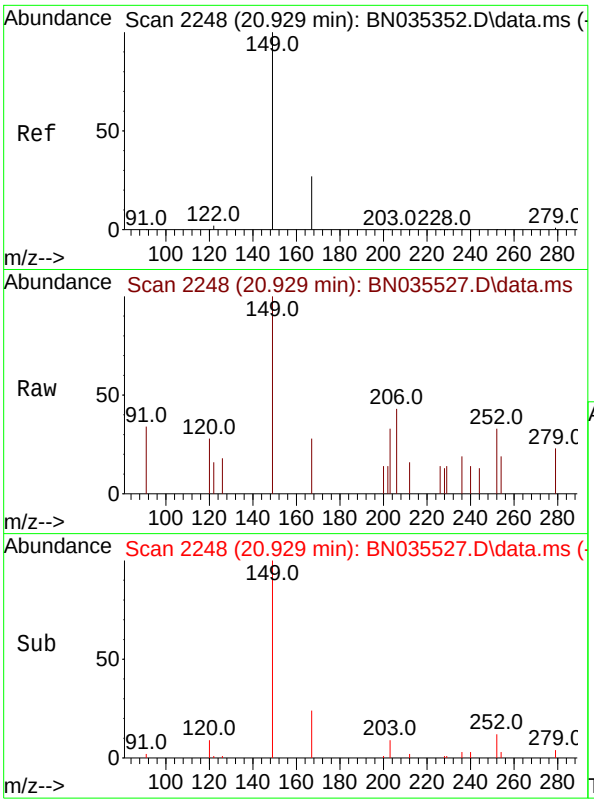


#31
Terphenyl-d14
Concen: 0.114 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:244 Resp: 1573

Ion	Ratio	Lower	Upper
244	100		
212	13.8	8.1	12.1#
122	15.2	10.3	15.5



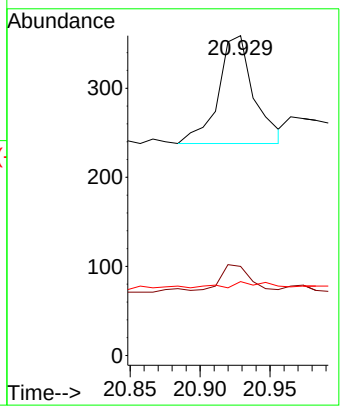


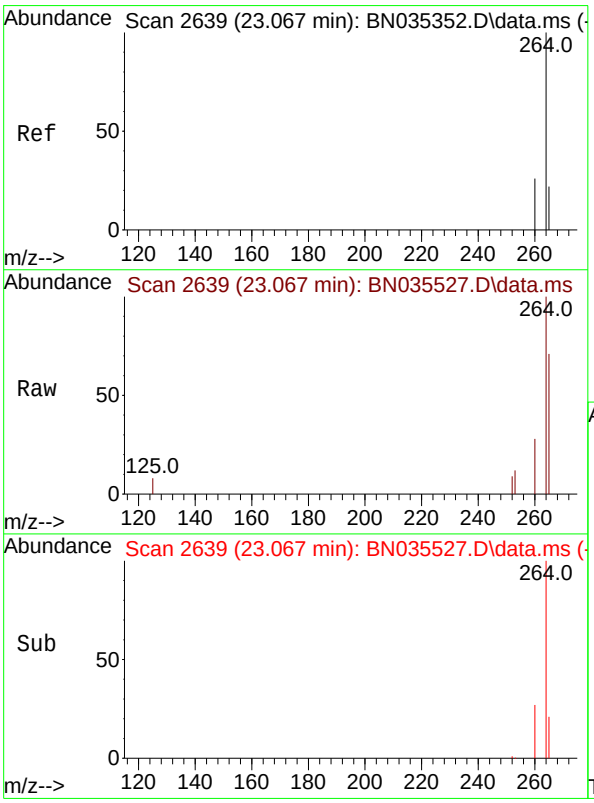
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.022 ng
RT: 20.929 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20241206DL

Tgt Ion:149 Resp: 214

Ion	Ratio	Lower	Upper
149	100		
167	19.6	22.2	33.4#
279	6.1	2.7	4.1#

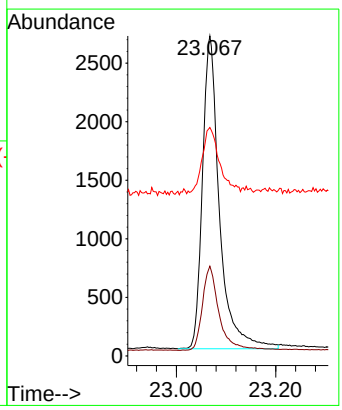




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035527.D
Acq: 10 Dec 2024 10:45

Tgt Ion:264 Resp: 6330

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.4	32.2
265	71.4	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035528.D
Acq On : 10 Dec 2024 11:21
Operator : RC/JU
Sample : PB165497BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Quant Time: Dec 10 12:28:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1669	0.400	ng	0.00
7) Naphthalene-d8	10.041	136	4431	0.400	ng	-0.01
13) Acenaphthene-d10	13.956	164	3092	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7959	0.400	ng	#-0.01
29) Chrysene-d12	20.964	240	6696	0.400	ng	0.00
35) Perylene-d12	23.058	264	5945	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1476	0.353	ng	0.00
5) Phenol-d6	6.506	99	1774	0.353	ng	0.00
8) Nitrobenzene-d5	8.429	82	1340	0.495	ng	-0.01
11) 2-Methylnaphthalene-d10	11.646	152	3705	0.534	ng	-0.01
14) 2,4,6-Tribromophenol	15.474	330	487	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	4718	0.404	ng	-0.01
27) Fluoranthene-d10	18.775	212	8501	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	6284	0.476	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.988	88	576	0.361	ng	# 57
3) n-Nitrosodimethylamine	3.285	42	601	0.452	ng	# 88
6) bis(2-Chloroethyl)ether	6.744	93	1620	0.384	ng	98
9) Naphthalene	10.094	128	4529	0.388	ng	99
10) Hexachlorobutadiene	10.383	225	1103	0.409	ng	# 98
12) 2-Methylnaphthalene	11.722	142	3239	0.387	ng	99
16) Acenaphthylene	13.668	152	5188	0.400	ng	100
17) Acenaphthene	14.020	154	3398	0.394	ng	99
18) Fluorene	15.025	166	4774	0.387	ng	100
20) 4,6-Dinitro-2-methylph...	15.132	198	191	0.244	ng	# 51
21) 4-Bromophenyl-phenylether	15.928	248	1680	0.361	ng	# 84
22) Hexachlorobenzene	16.028	284	2050	0.375	ng	98
23) Atrazine	16.226	200	1210	0.365	ng	96
24) Pentachlorophenol	16.388	266	731	0.307	ng	# 85
25) Phenanthrene	16.760	178	8421	0.385	ng	100
26) Anthracene	16.859	178	7595	0.384	ng	99
28) Fluoranthene	18.807	202	10125	0.344	ng	99
30) Pyrene	19.174	202	10396	0.421	ng	100
32) Benzo(a)anthracene	20.946	228	8539	0.365	ng	100
33) Chrysene	21.000	228	9922	0.411	ng	100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3709	0.401	ng	100
36) Indeno(1,2,3-cd)pyrene	25.105	276	8871	0.382	ng	96
37) Benzo(b)fluoranthene	22.444	252	11072	0.509	ng	99
38) Benzo(k)fluoranthene	22.488	252	9381	0.438	ng	98
39) Benzo(a)pyrene	22.971	252	7413	0.414	ng	95
40) Dibenzo(a,h)anthracene	25.116	278	6401	0.349	ng	96
41) Benzo(g,h,i)perylene	25.710	276	7301	0.381	ng	98

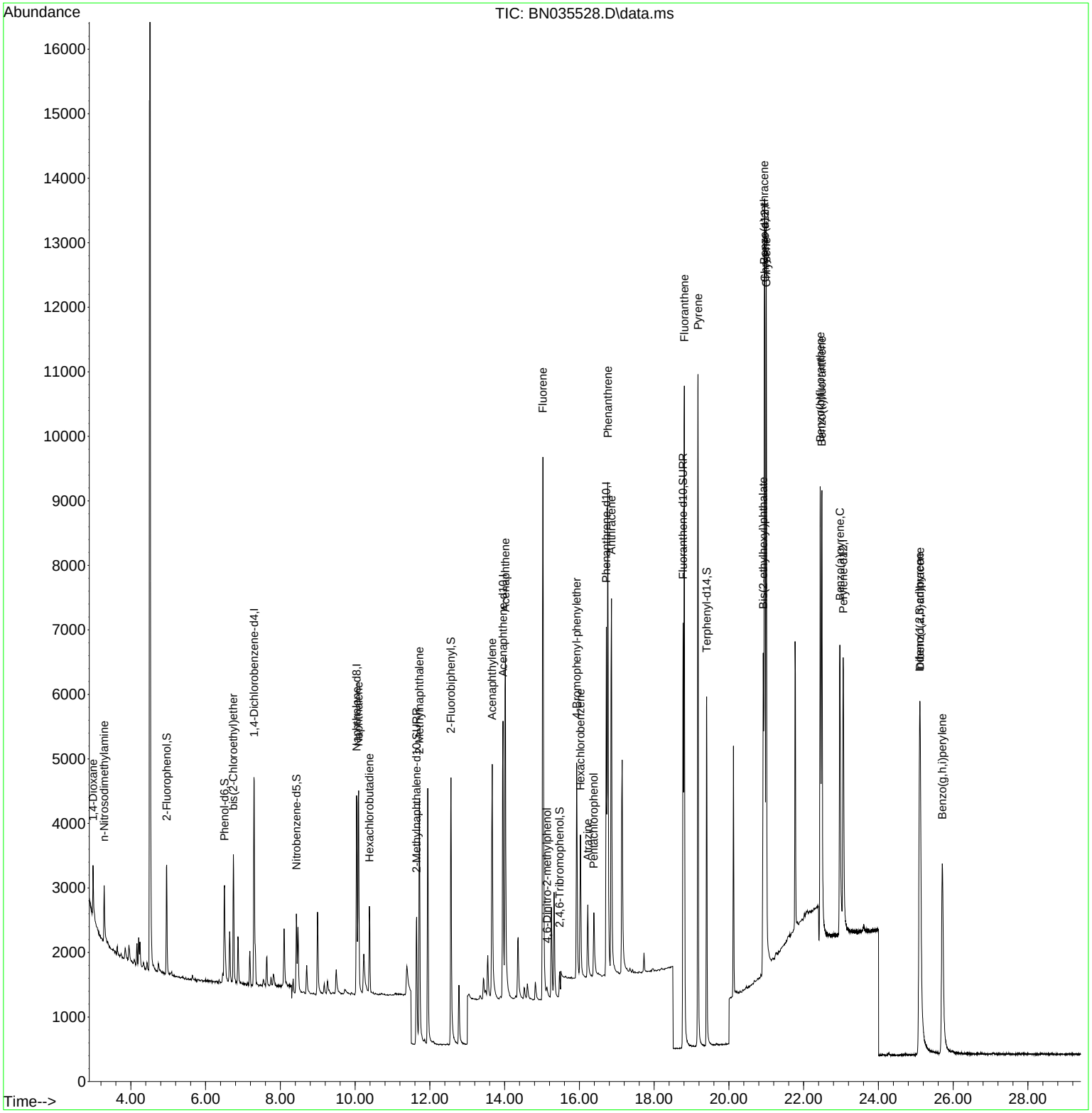
(#) = qualifier out of range (m) = manual integration (+) = signals summed

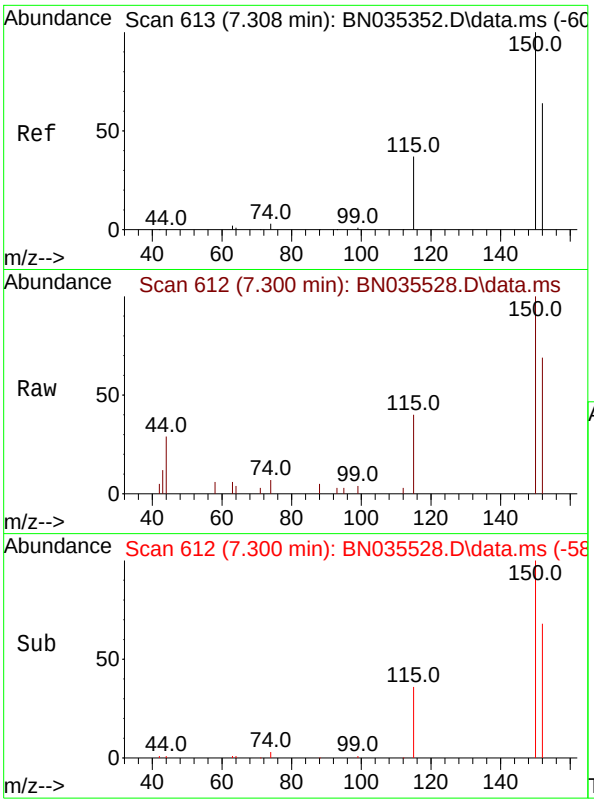
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035528.D
Acq On : 10 Dec 2024 11:21
Operator : RC/JU
Sample : PB165497BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Quant Time: Dec 10 12:28:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



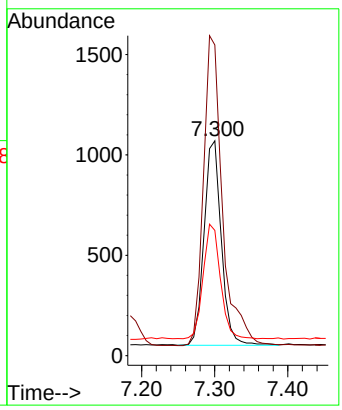


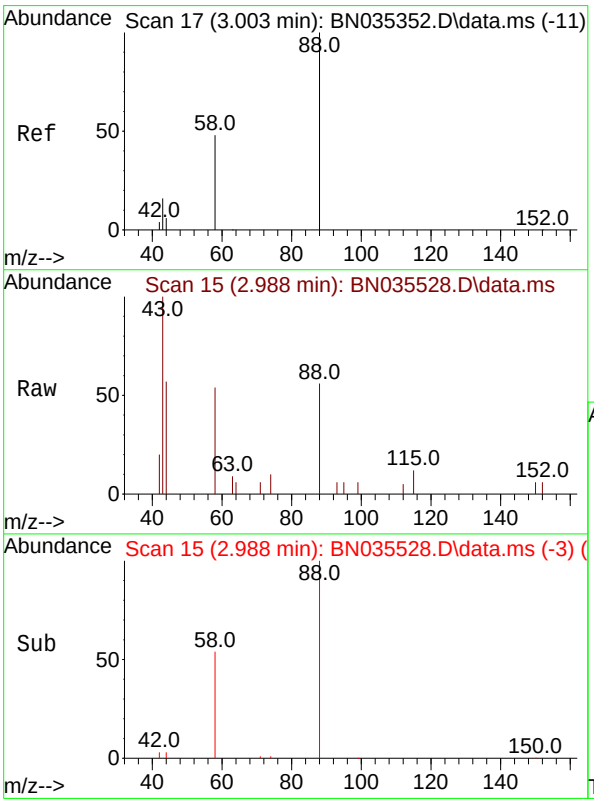
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:152 Resp: 1669

Ion	Ratio	Lower	Upper
152	100		
150	144.7	124.0	186.0
115	58.3	49.6	74.4

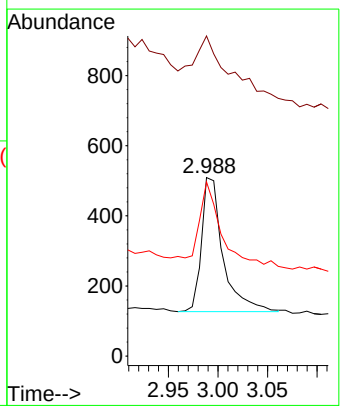


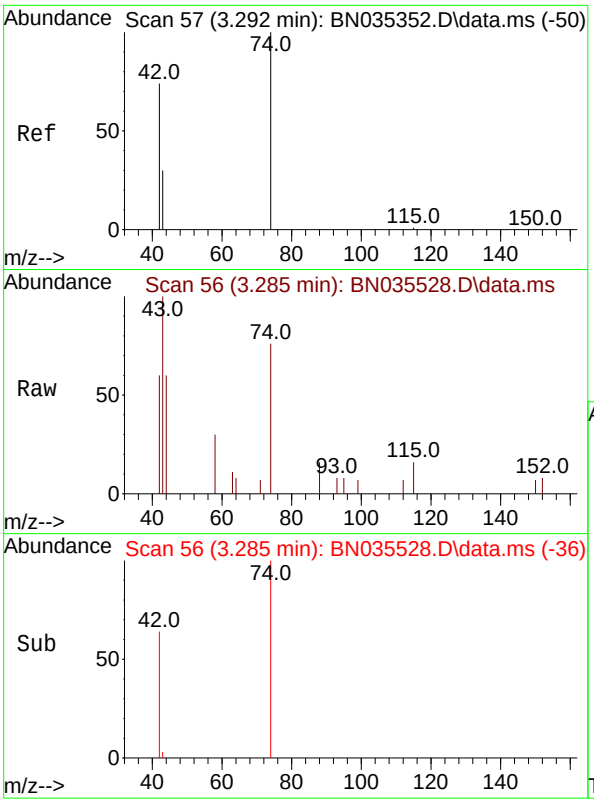


#2
1,4-Dioxane
Concen: 0.361 ng
RT: 2.988 min Scan# 15
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 88 Resp: 576

Ion	Ratio	Lower	Upper
88	100		
43	75.0	17.2	25.8#
58	67.4	44.5	66.7#



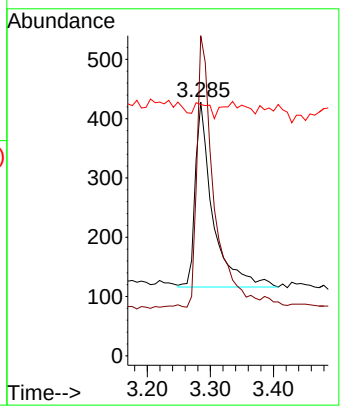


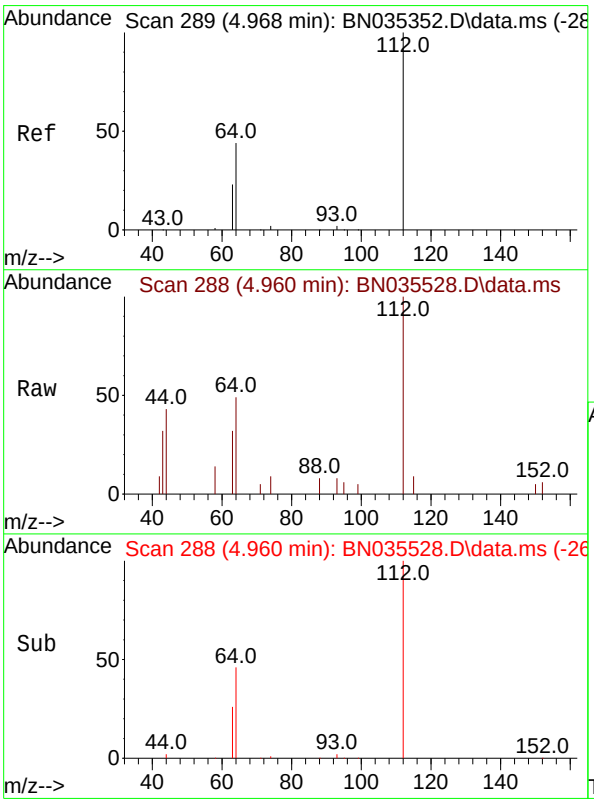
#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion: 42 Resp: 601

Ion	Ratio	Lower	Upper
42	100		
74	140.3	124.9	187.3
44	7.0	2.2	3.4#

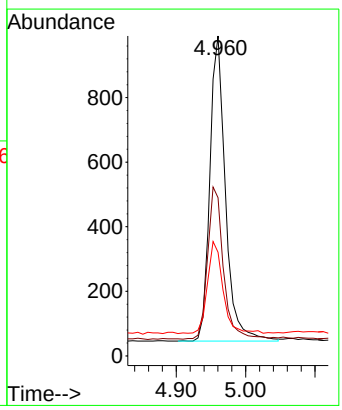


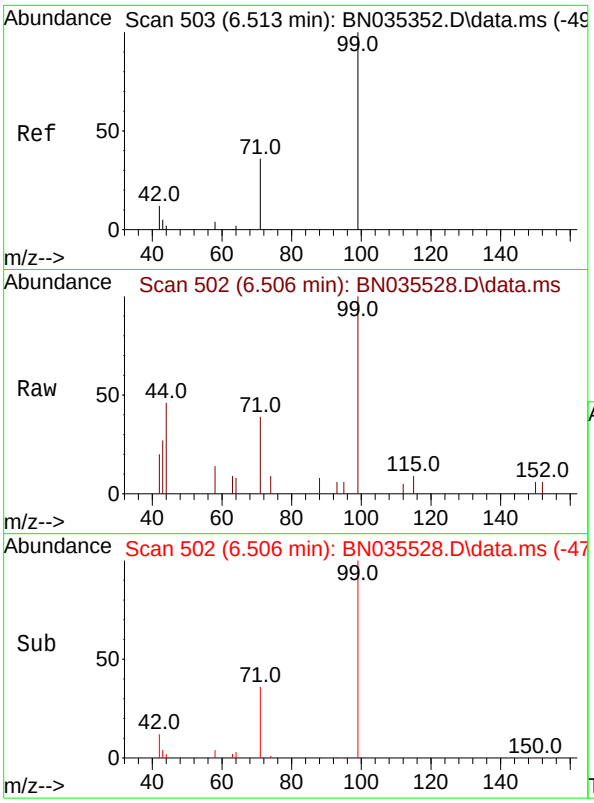


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:112 Resp: 1476

Ion	Ratio	Lower	Upper
112	100		
64	50.3	39.8	59.8
63	29.7	21.0	31.6



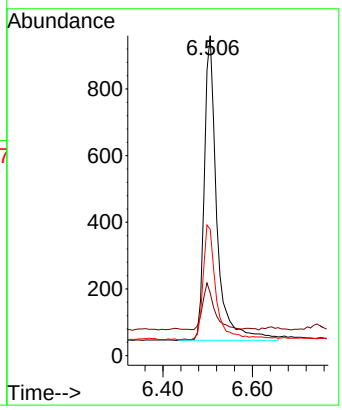


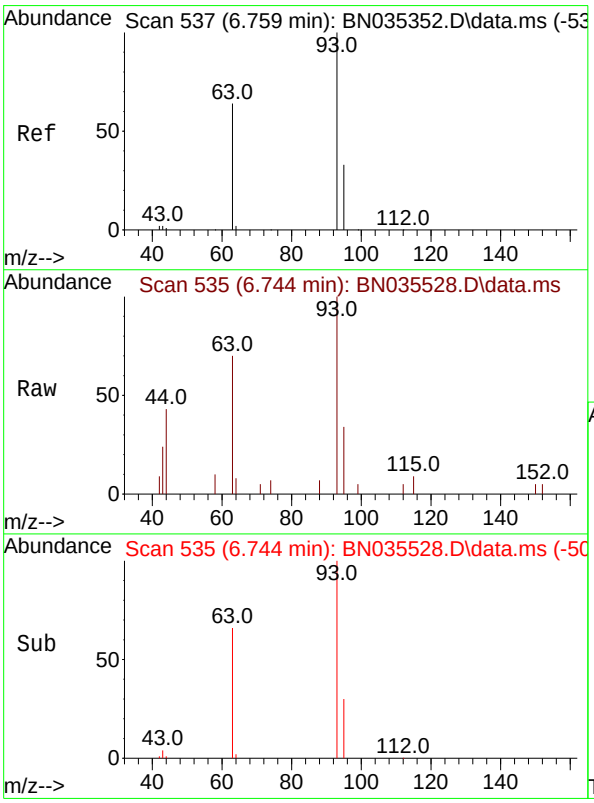
#5
Phenol-d6
Concen: 0.353 ng
RT: 6.506 min Scan# 5(
Delta R.T. -0.008 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion: 99 Resp: 1774

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	39.4	29.3	43.9

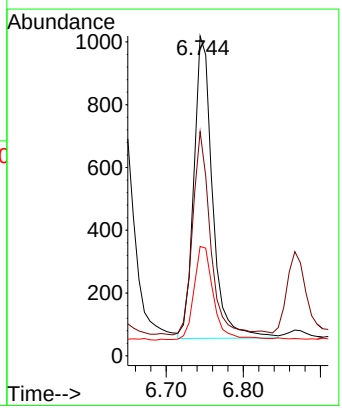


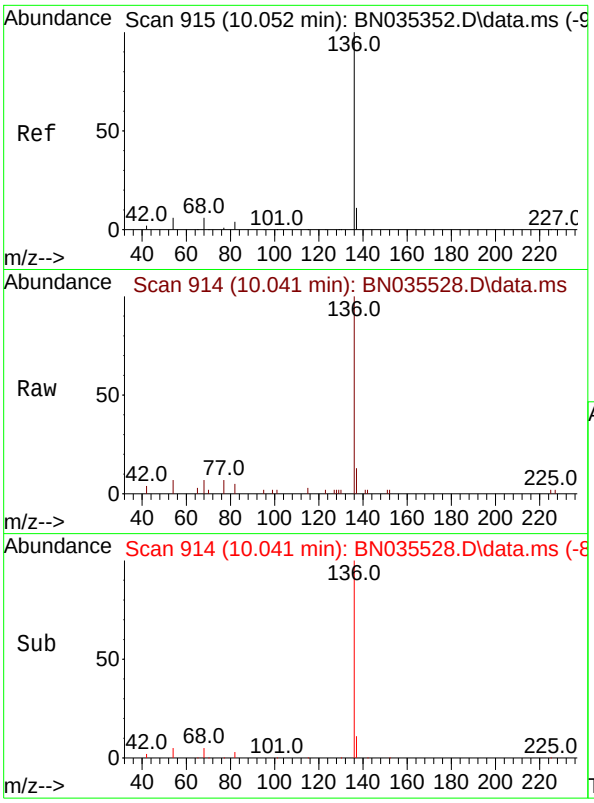


#6
bis(2-Chloroethyl)ether
Concen: 0.384 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.015 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 93 Resp: 1620

Ion	Ratio	Lower	Upper
93	100		
63	64.3	50.4	75.6
95	32.9	25.7	38.5



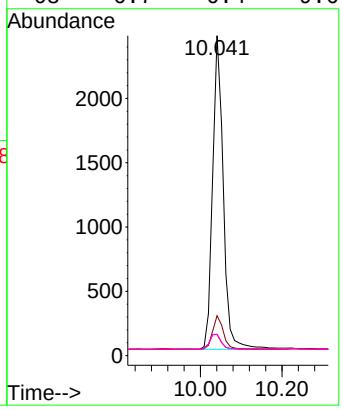


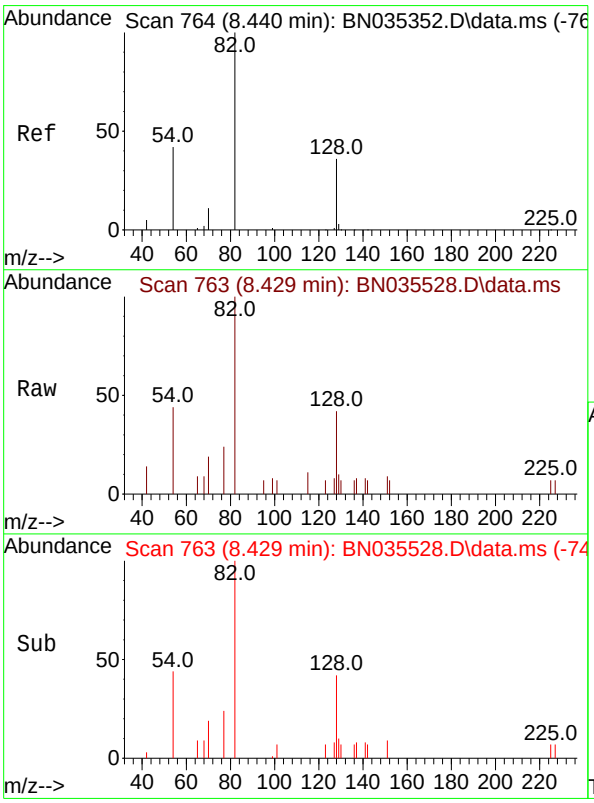
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:136 Resp: 4431

Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.2	15.2
54	6.6	6.1	9.1
68	6.7	6.4	9.6

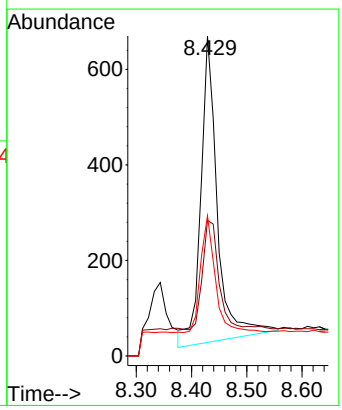


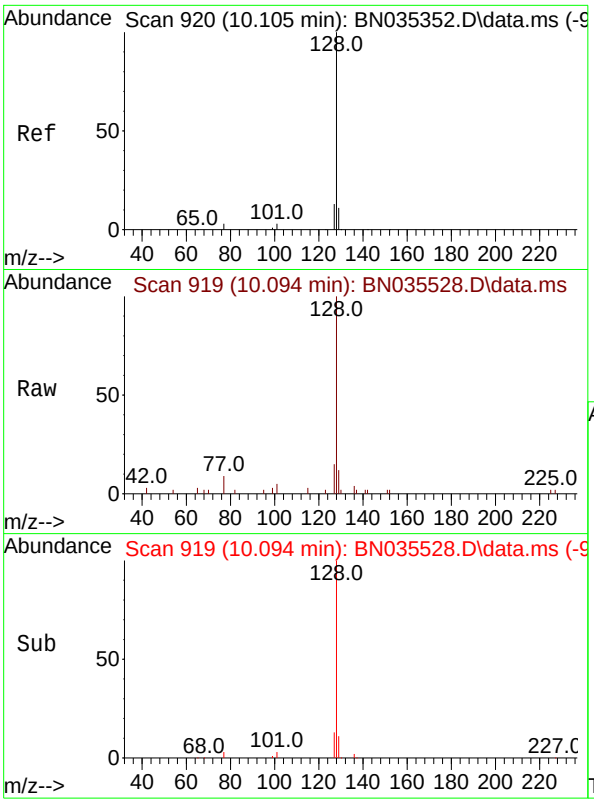


#8
Nitrobenzene-d5
Concen: 0.495 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion: 82 Resp: 1340

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	43.9	36.7	55.1



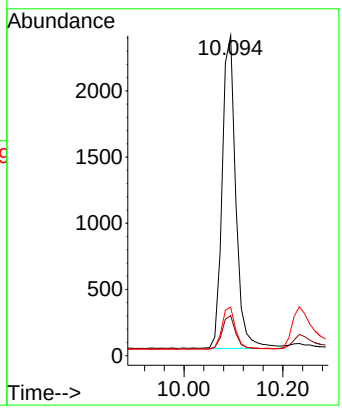


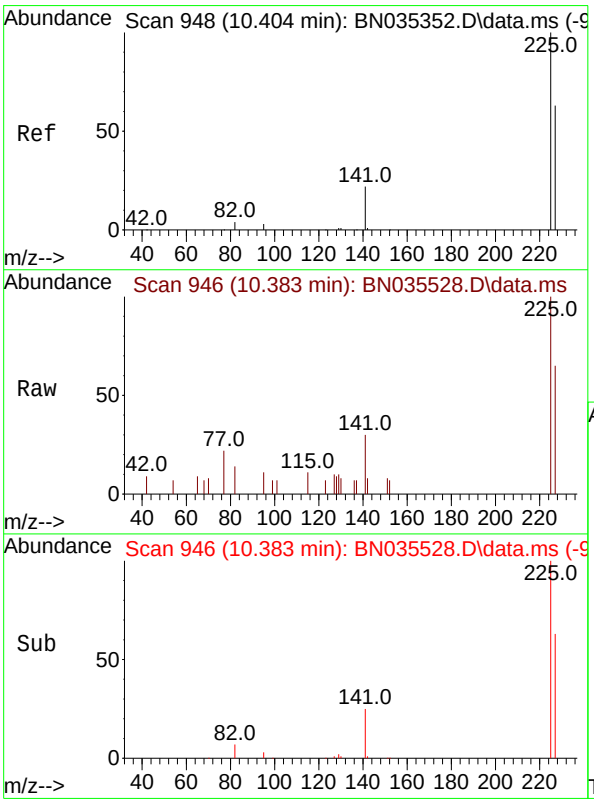
#9
Naphthalene
Concen: 0.388 ng
RT: 10.094 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:128 Resp: 4529

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	15.1	11.4	17.2

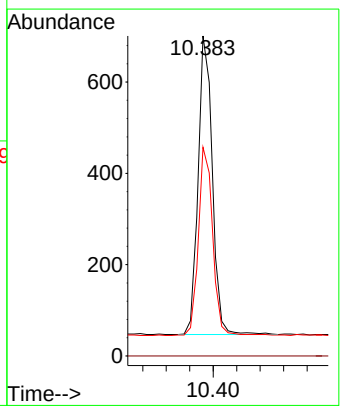


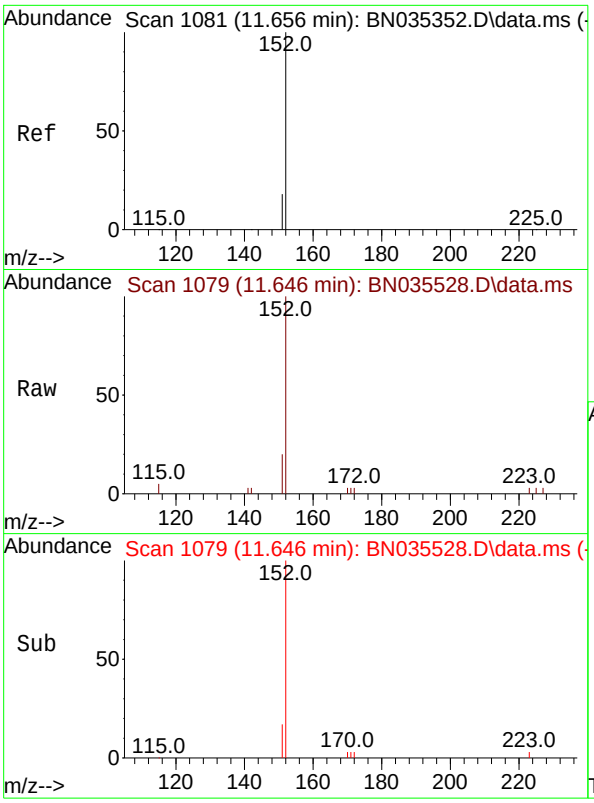


#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.022 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:225 Resp: 1103

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	51.3	76.9



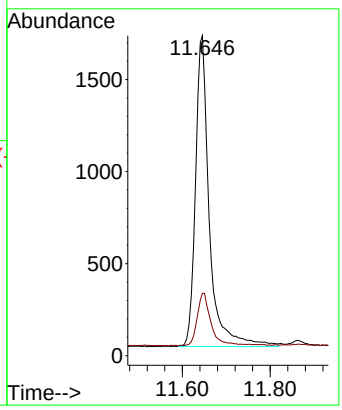


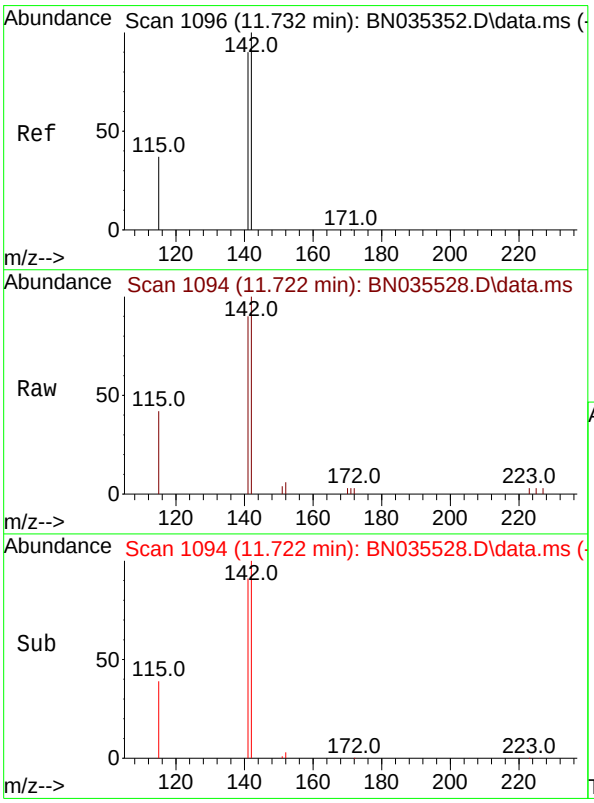
#11
2-Methylnaphthalene-d10
Concen: 0.534 ng
RT: 11.646 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:152 Resp: 3705

Ion	Ratio	Lower	Upper
152	100		
151	17.1	16.6	25.0

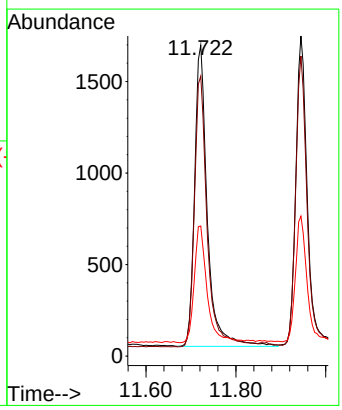


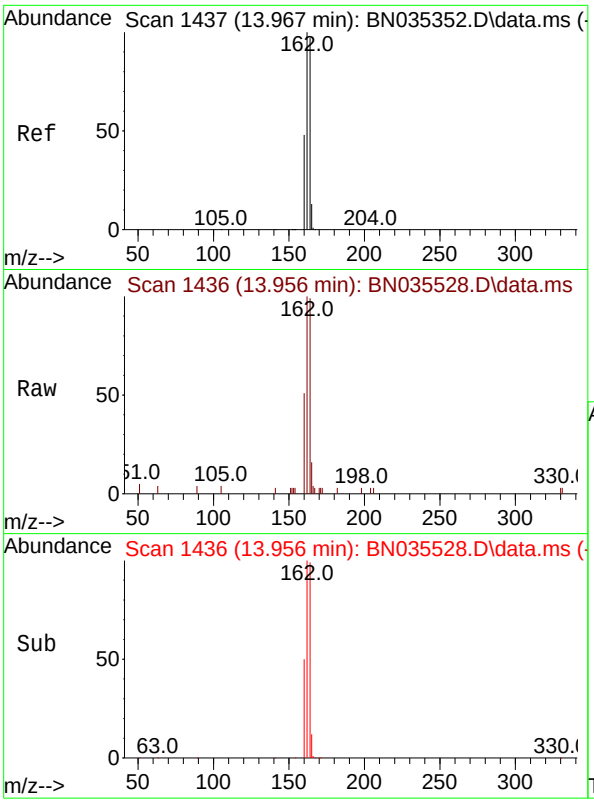


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:142 Resp: 3239

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	41.8	31.4	47.0



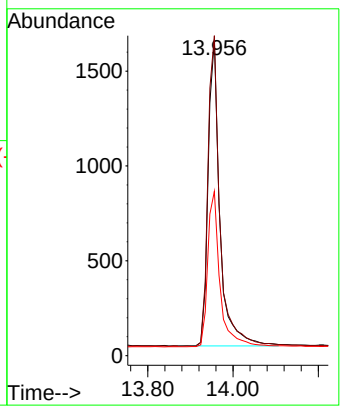


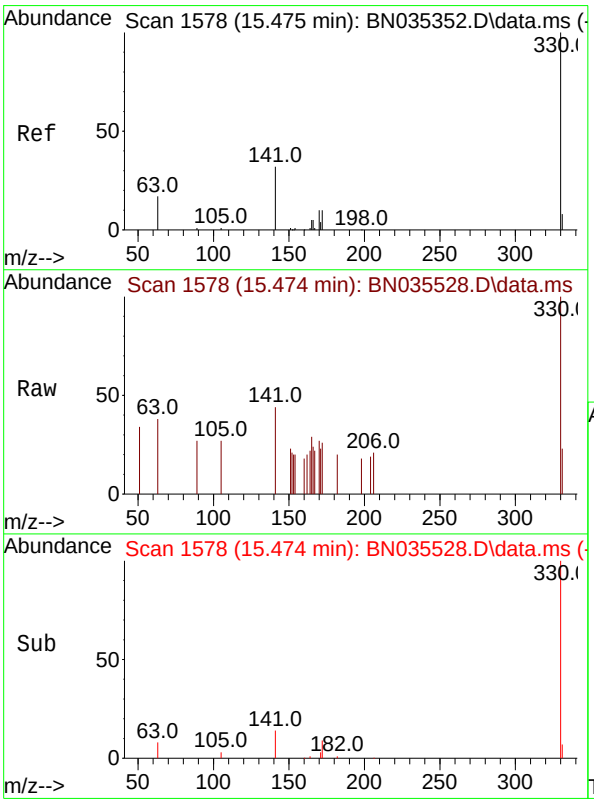
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:164 Resp: 3092

Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.2	123.2
160	52.0	40.1	60.1

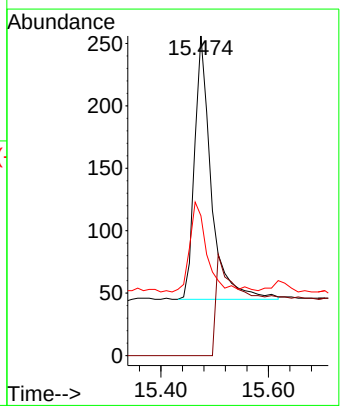


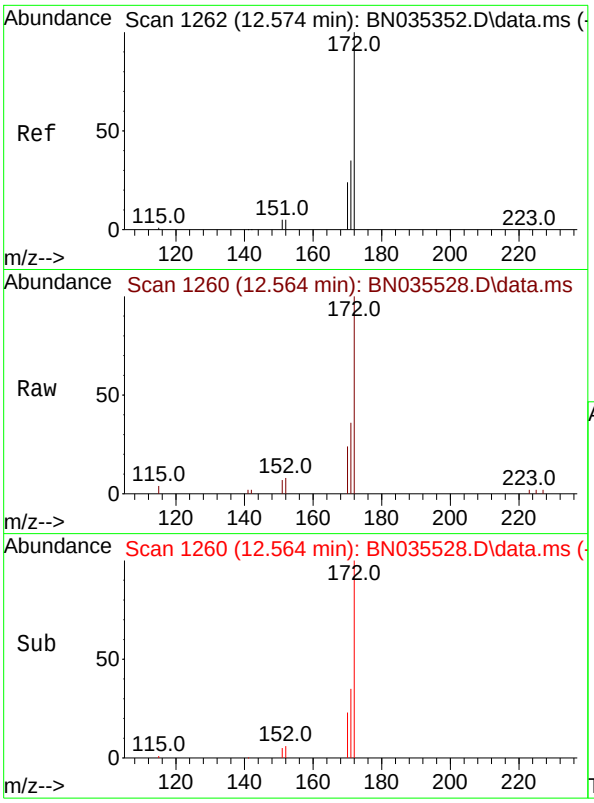


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.474 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:330 Resp: 487

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.9	26.6	40.0



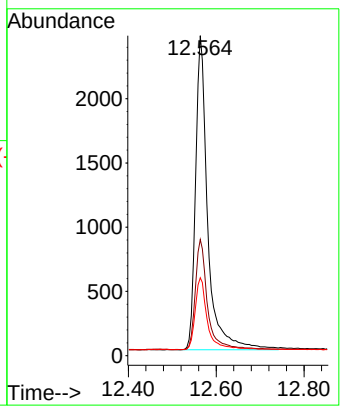


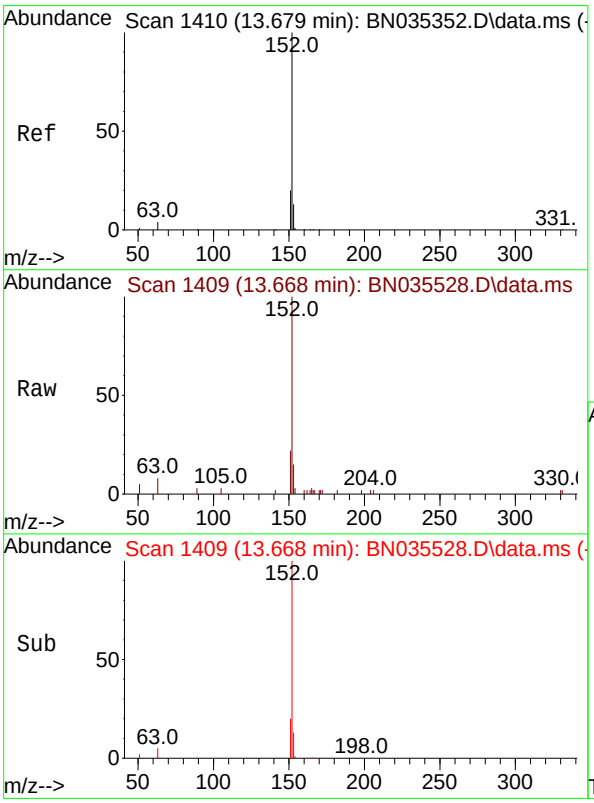
#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:172 Resp: 4718

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.4	19.8	29.8

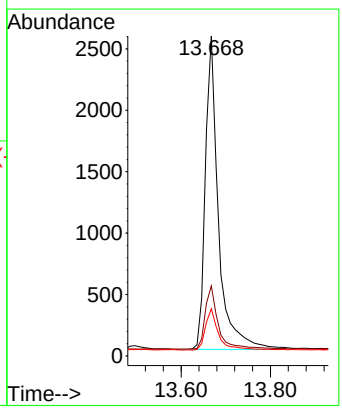


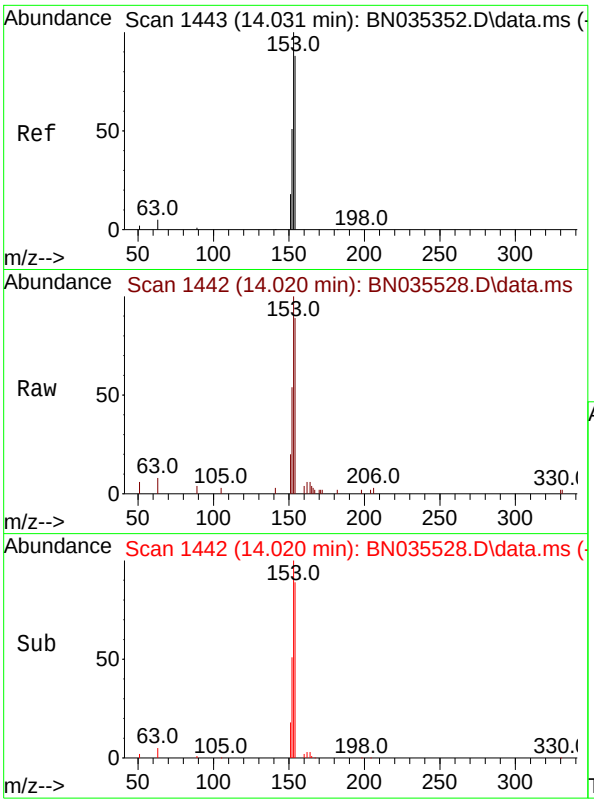


#16
Acenaphthylene
Concen: 0.400 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:152 Resp: 5188

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.1	10.4	15.6



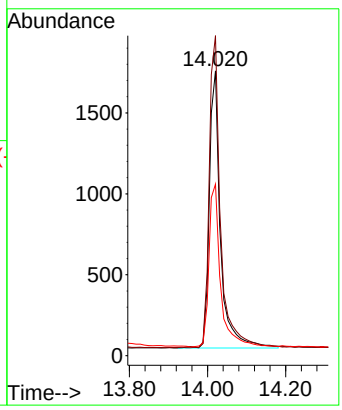


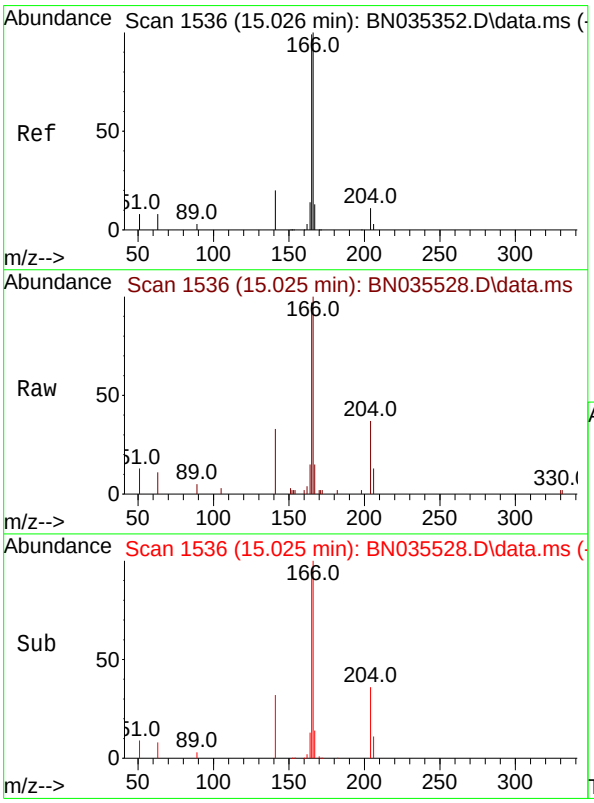
#17
Acenaphthene
Concen: 0.394 ng
RT: 14.020 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:154 Resp: 3398

Ion	Ratio	Lower	Upper
154	100		
153	113.6	92.6	139.0
152	61.0	49.0	73.6

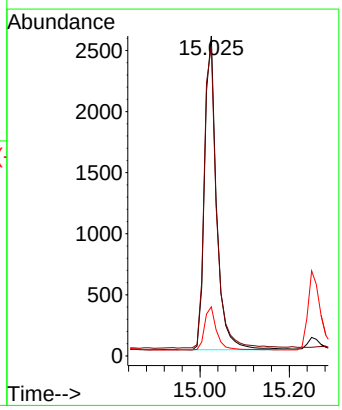


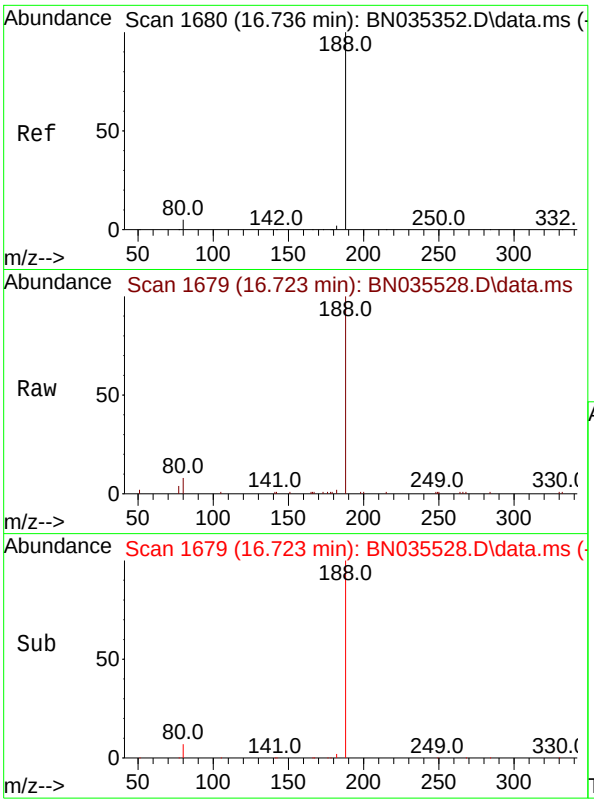


#18
Fluorene
Concen: 0.387 ng
RT: 15.025 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:166 Resp: 4774

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.7	10.8	16.2



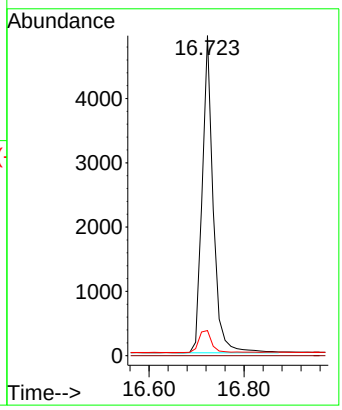


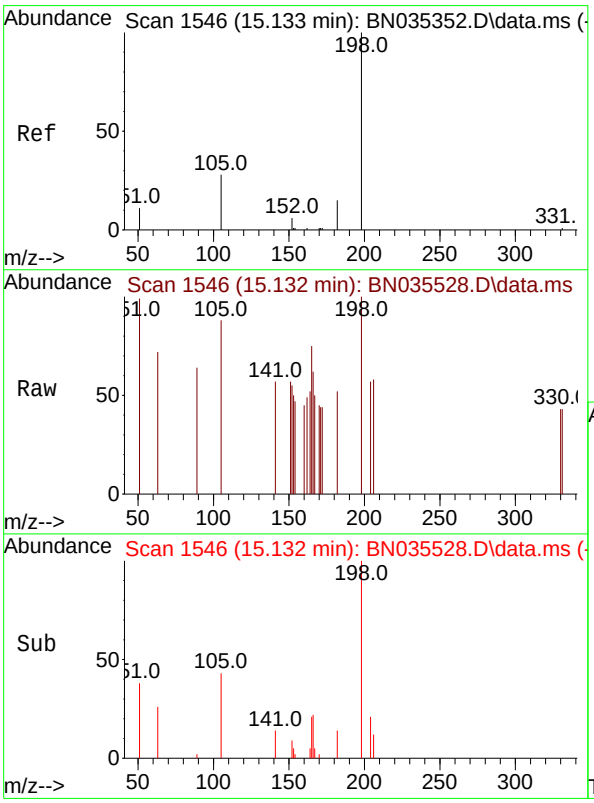
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:188 Resp: 7959

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.9	4.6	6.8#

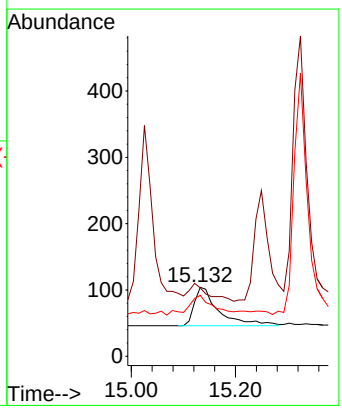


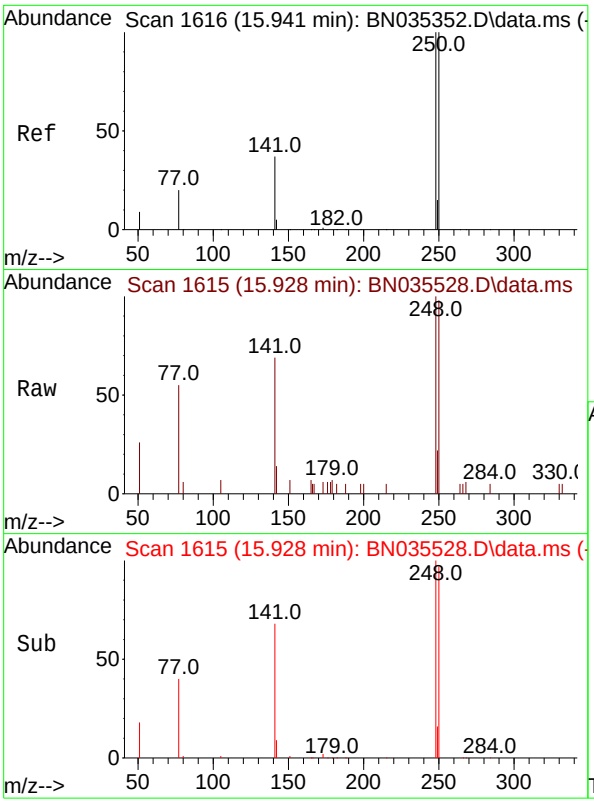


#20
4,6-Dinitro-2-methylphenol
Concen: 0.244 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:198 Resp: 191

Ion	Ratio	Lower	Upper
198	100		
51	99.0	46.5	69.7#
105	88.5	45.3	67.9#



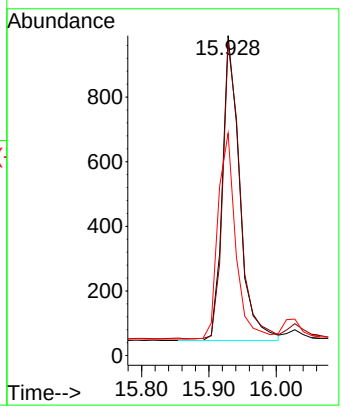


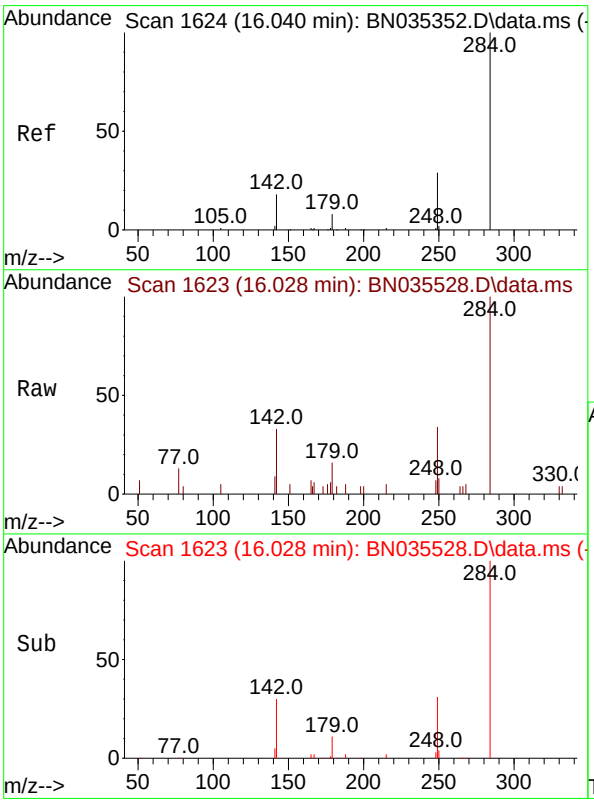
#21
4-Bromophenyl-phenylether
Concen: 0.361 ng
RT: 15.928 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:248 Resp: 1680

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	69.5	31.5	47.3#

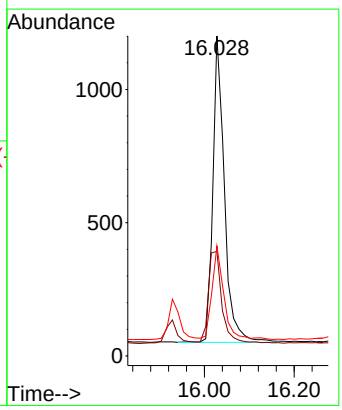


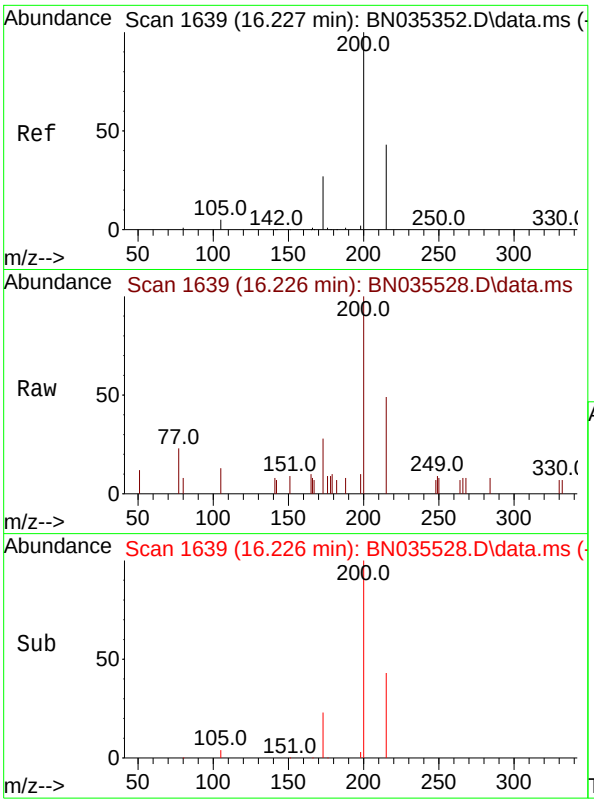


#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:284 Resp: 2050

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	31.3	24.6	36.8



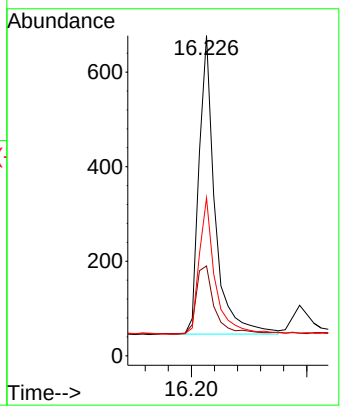


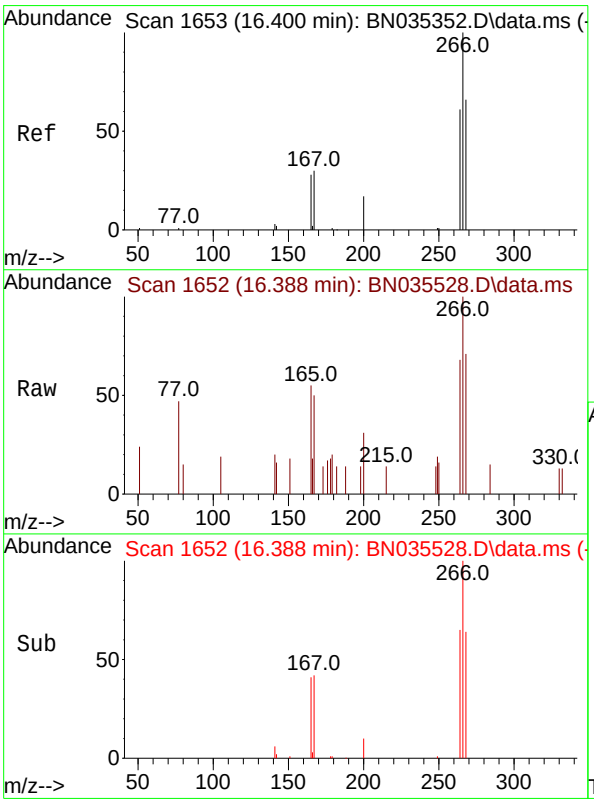
#23
Atrazine
Concen: 0.365 ng
RT: 16.226 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:200 Resp: 1210

Ion	Ratio	Lower	Upper
200	100		
173	28.1	24.1	36.1
215	49.3	36.9	55.3

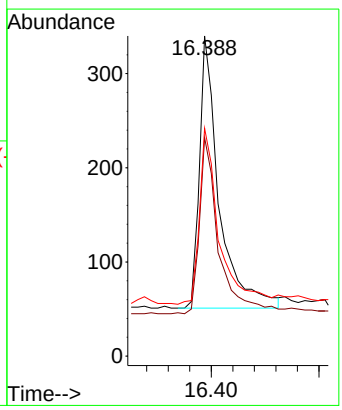


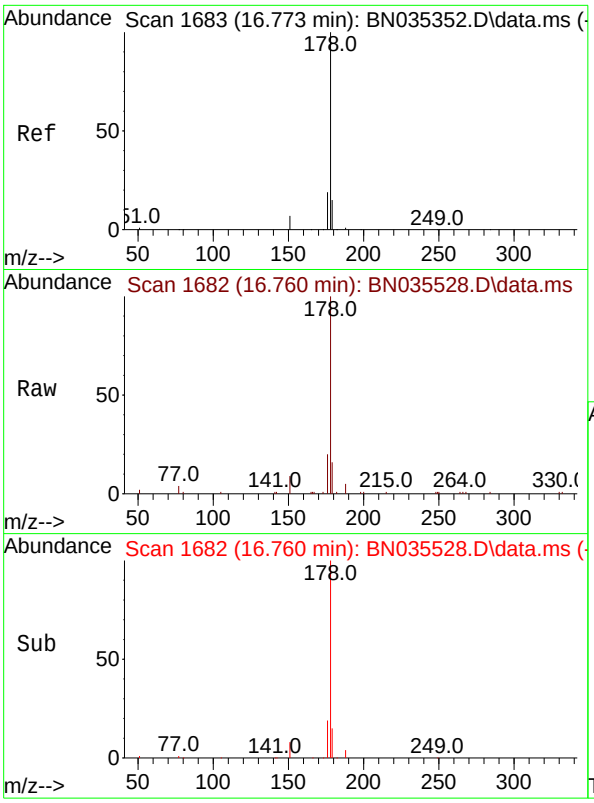


#24
Pentachlorophenol
Concen: 0.307 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:266 Resp: 731

Ion	Ratio	Lower	Upper
266	100		
264	63.5	42.3	63.5
268	65.0	43.3	64.9#



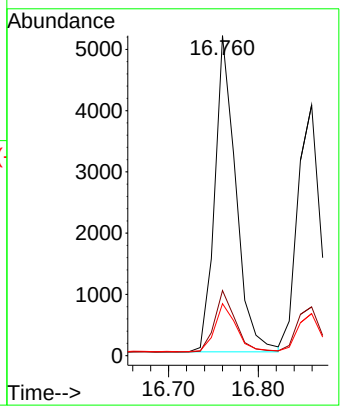


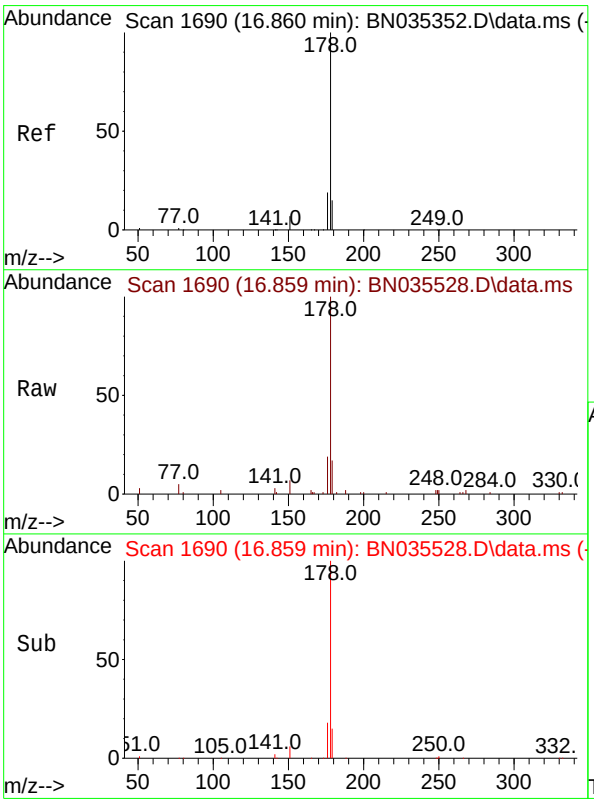
#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:178 Resp: 8421

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5

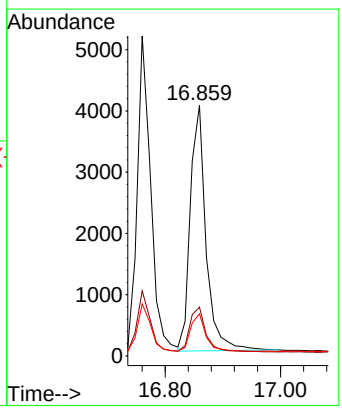


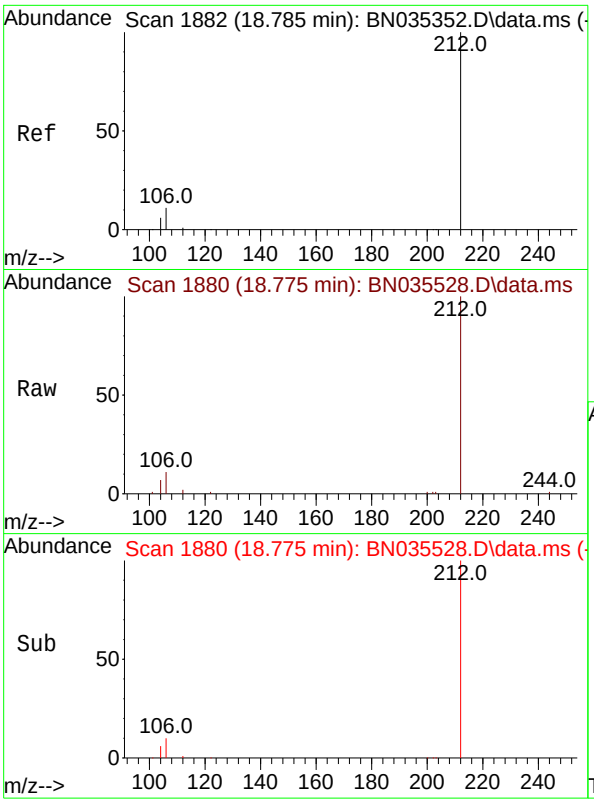


#26
Anthracene
Concen: 0.384 ng
RT: 16.859 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:178 Resp: 7595

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8



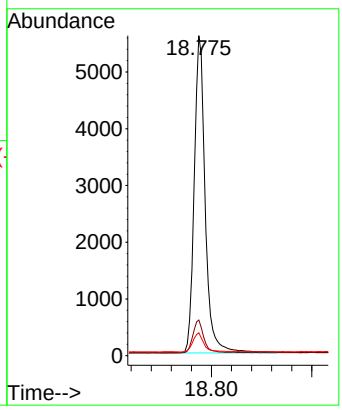


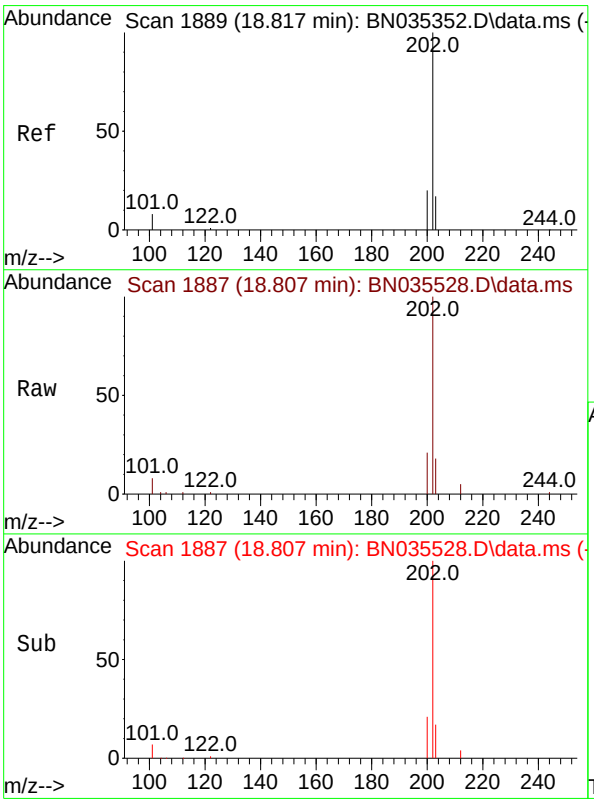
#27
Fluoranthene-d10
Concen: 0.377 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:212 Resp: 8501

Ion	Ratio	Lower	Upper
212	100		
106	10.0	9.2	13.8
104	6.0	5.3	7.9

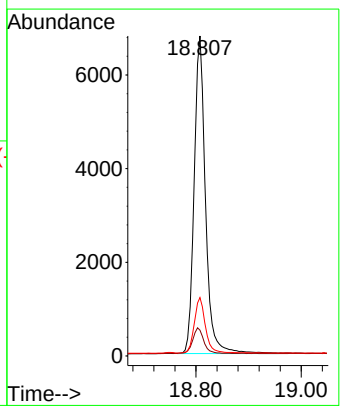


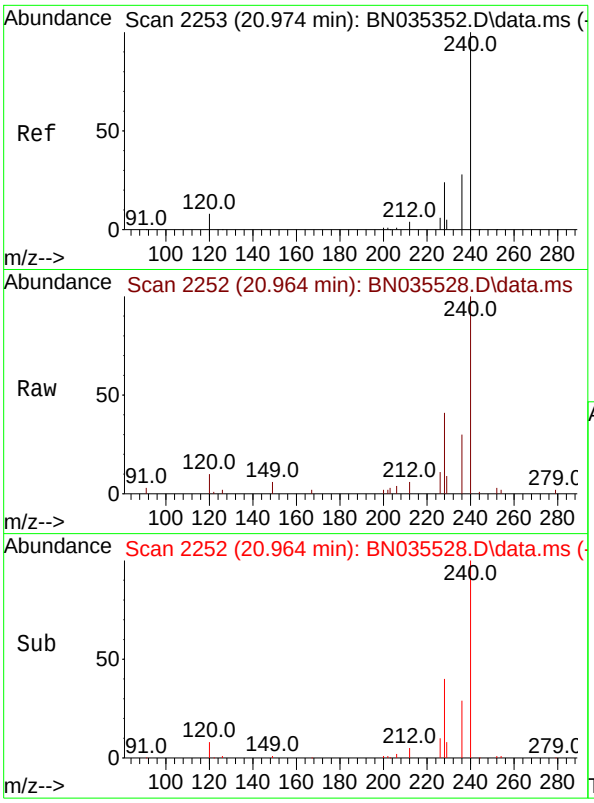


#28
Fluoranthene
Concen: 0.344 ng
RT: 18.807 min Scan# 1887
Delta R.T. -0.010 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:202 Resp: 10125

Ion	Ratio	Lower	Upper
202	100		
101	7.8	7.4	11.0
203	17.1	13.7	20.5



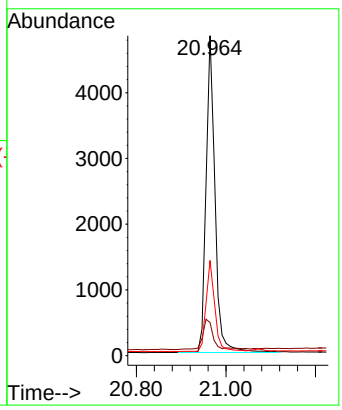


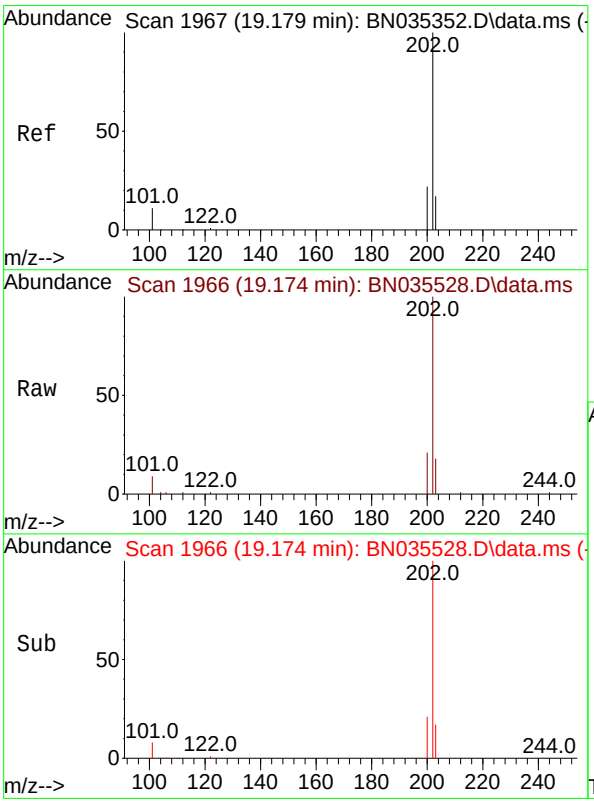
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.964 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:240 Resp: 6696

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.9	11.9
236	29.7	22.9	34.3

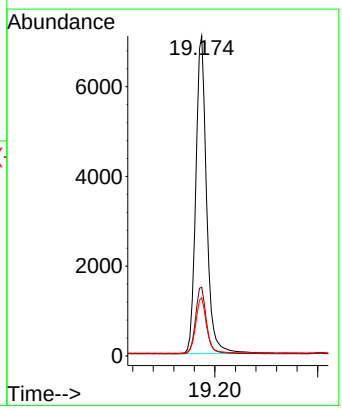


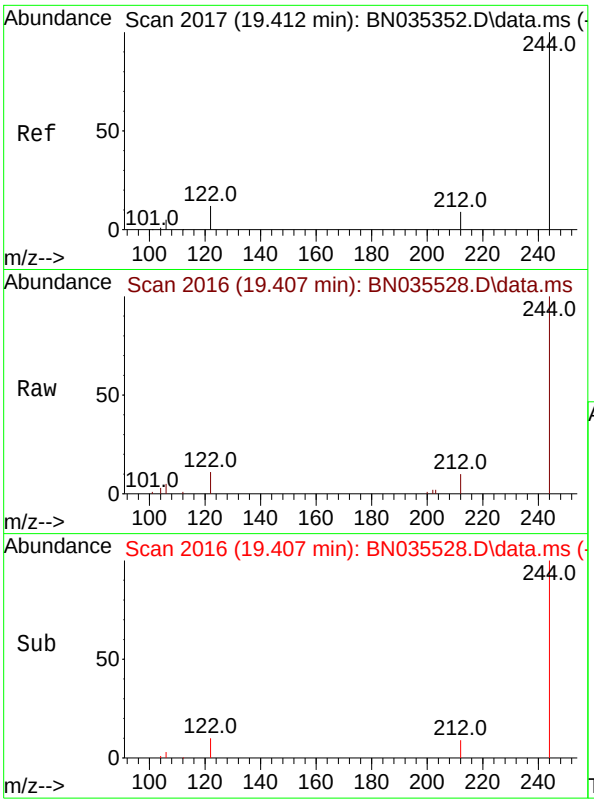


#30
Pyrene
Concen: 0.421 ng
RT: 19.174 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:202 Resp: 10396

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



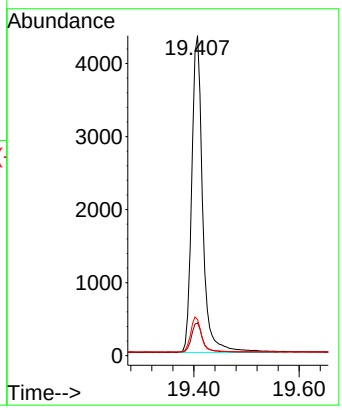


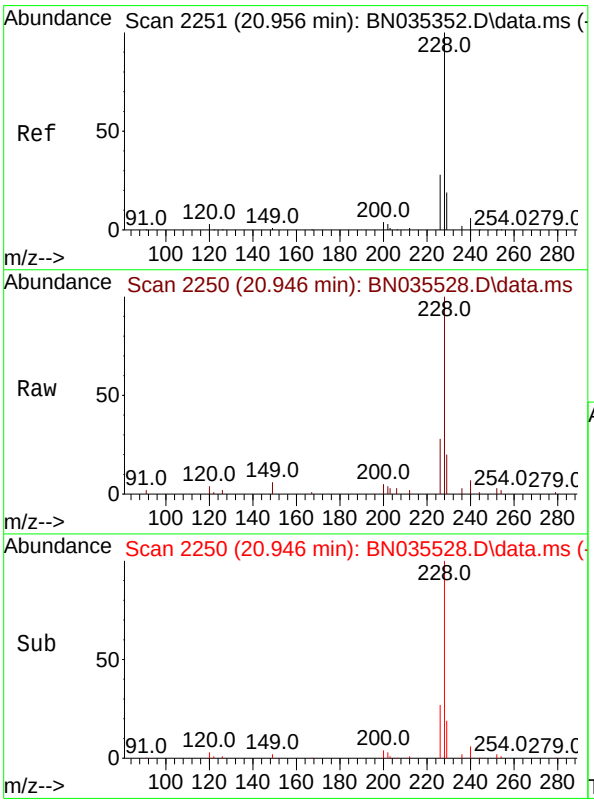
#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:244 Resp: 6284

Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.1	12.1
122	11.3	10.3	15.5

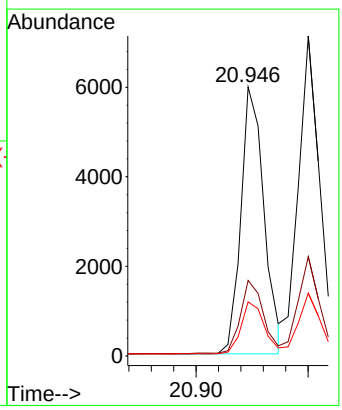


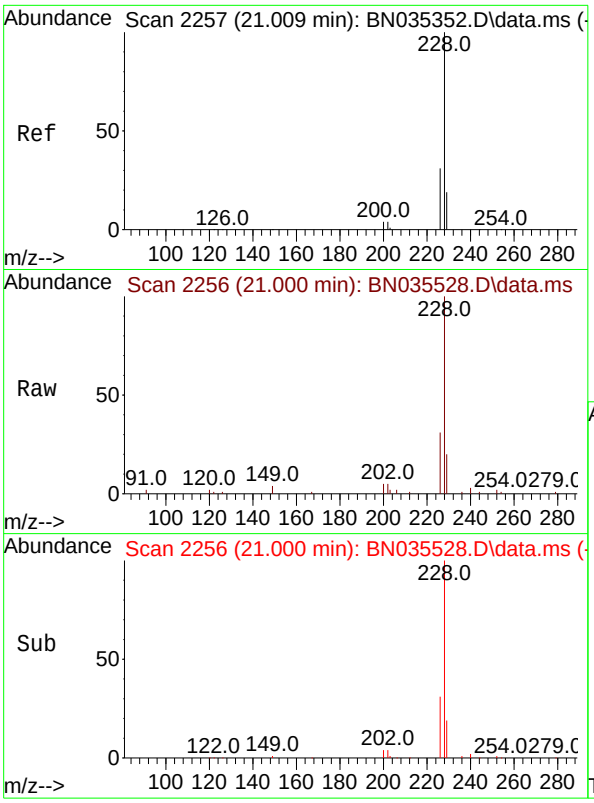


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.946 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:228 Resp: 8539

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.1	15.8	23.8



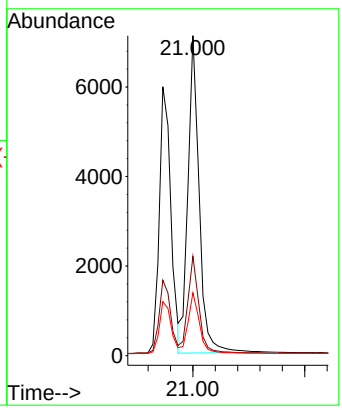


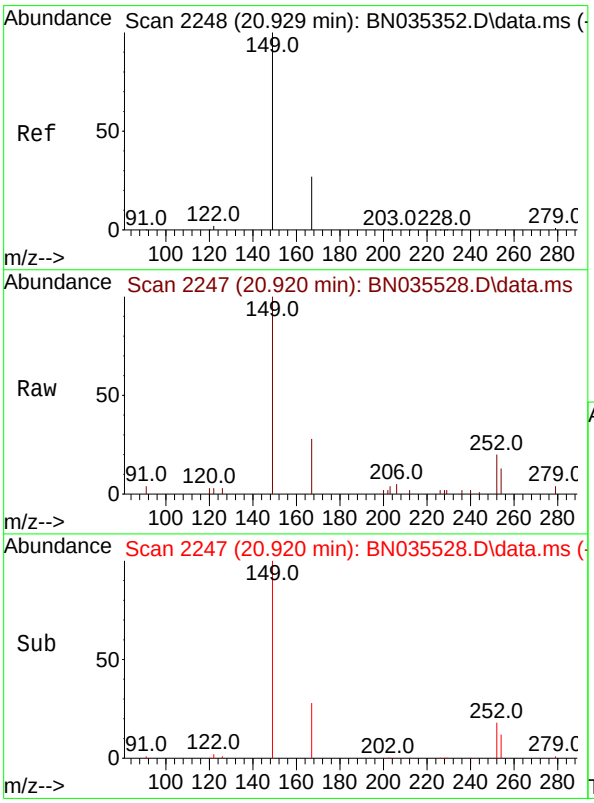
#33
Chrysene
Concen: 0.411 ng
RT: 21.000 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:228 Resp: 9922

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	19.7	15.9	23.9

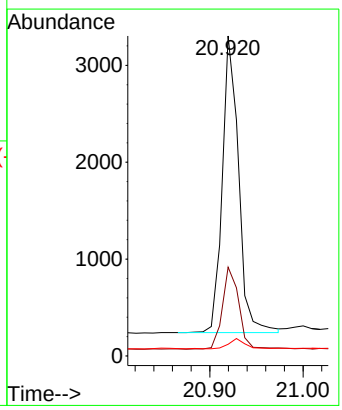


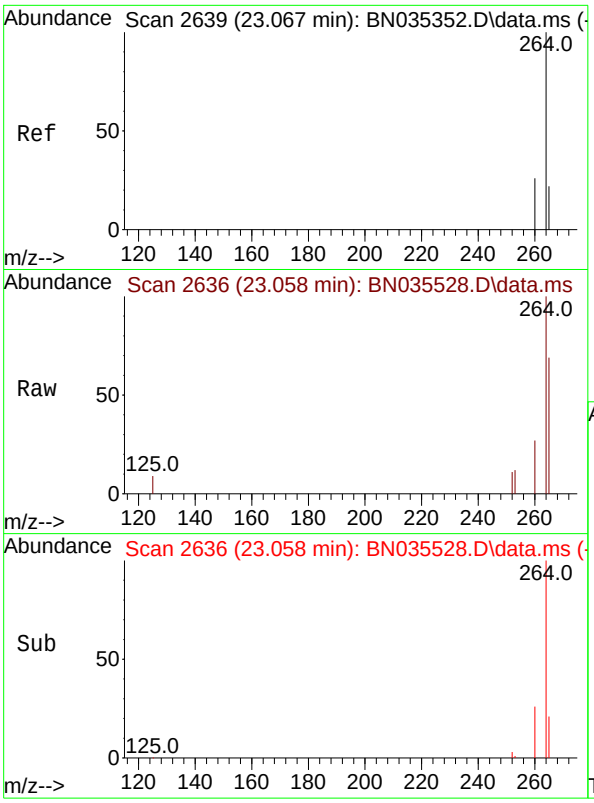


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.401 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:149 Resp: 3709

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.4
279	3.5	2.7	4.1



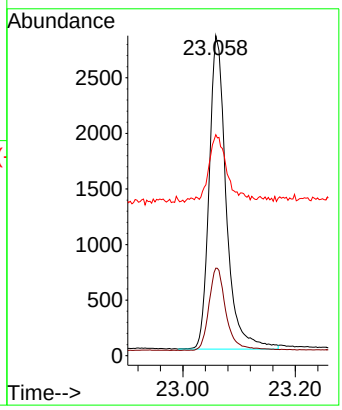


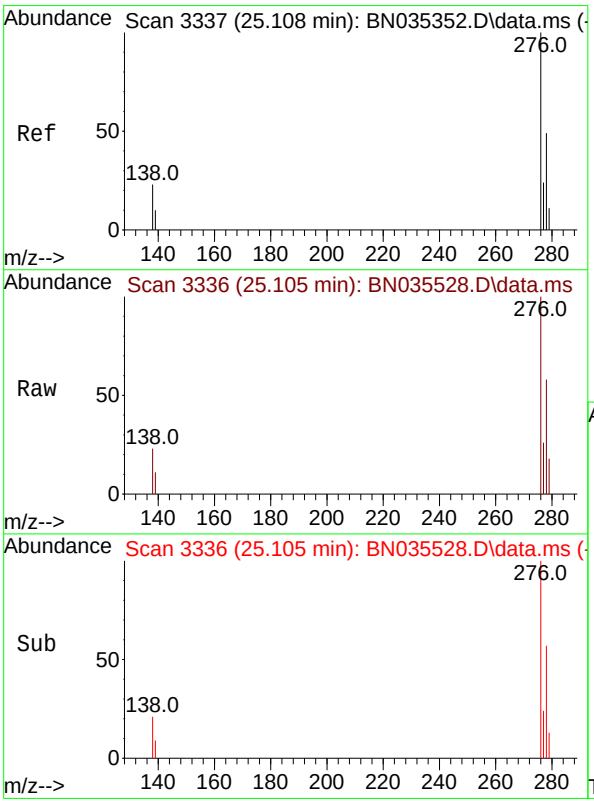
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.058 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:264 Resp: 5945

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	69.1	40.2	60.4#

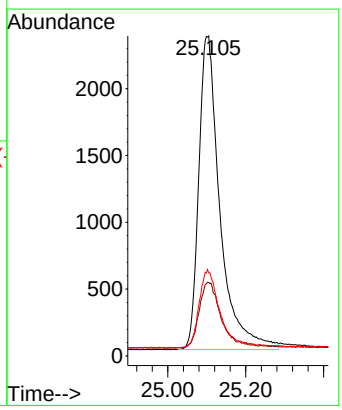


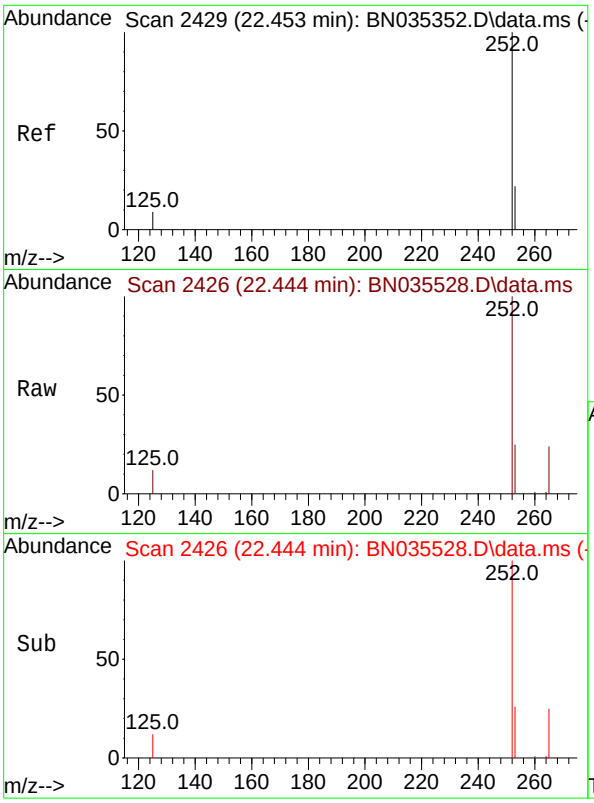


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:276 Resp: 8871

Ion	Ratio	Lower	Upper
276	100		
138	21.3	19.4	29.0
277	24.0	19.8	29.6



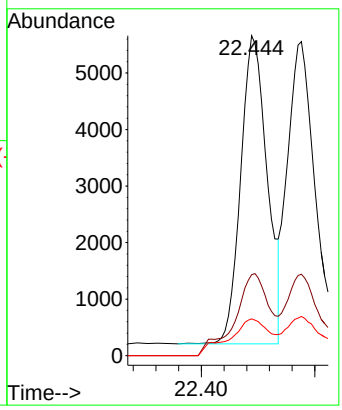


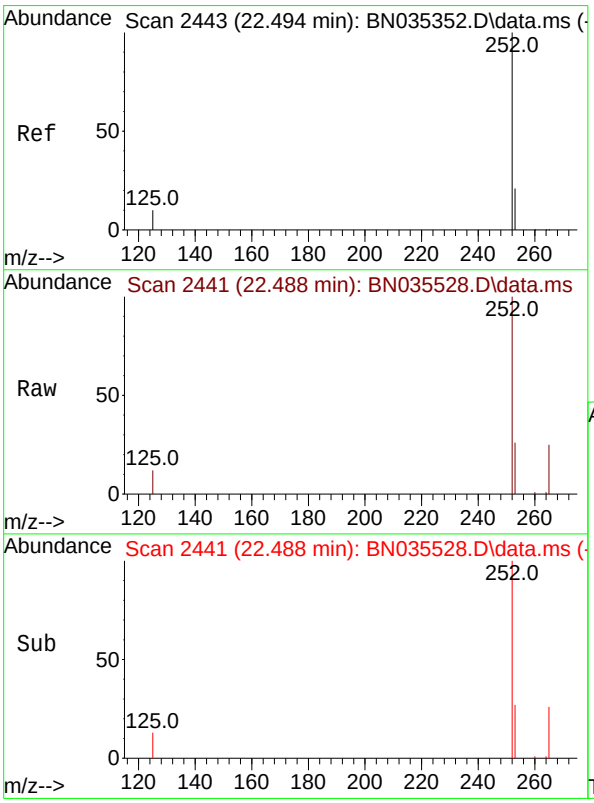
#37
Benzo(b)fluoranthene
Concen: 0.509 ng
RT: 22.444 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:252 Resp: 11072

Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.6	29.4
125	11.5	9.6	14.4

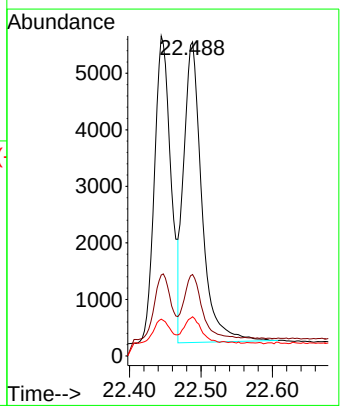


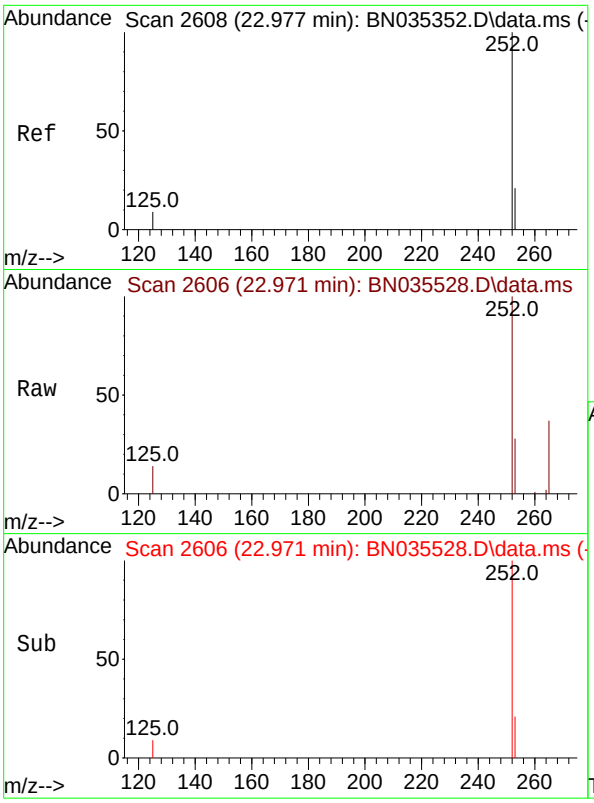


#38
Benzo(k)fluoranthene
Concen: 0.438 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:252 Resp: 9381

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	12.5	10.2	15.4



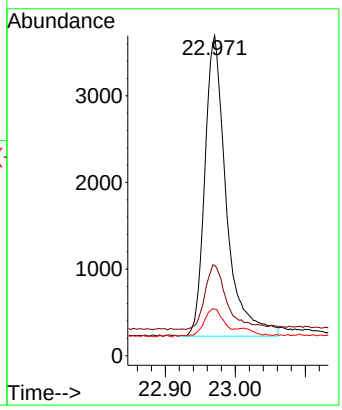


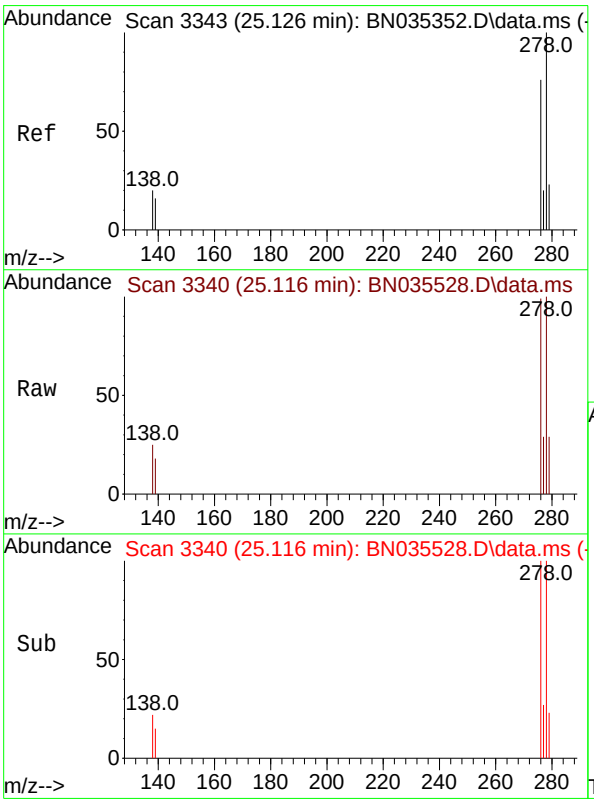
#39
Benzo(a)pyrene
Concen: 0.414 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:252 Resp: 7413

Ion	Ratio	Lower	Upper
252	100		
253	28.3	20.2	30.4
125	14.5	10.9	16.3

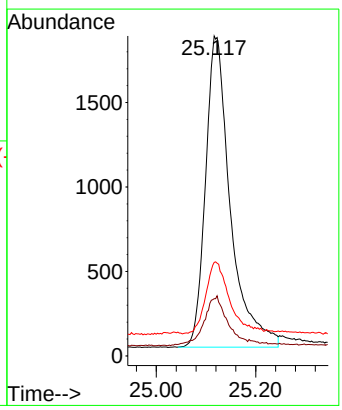


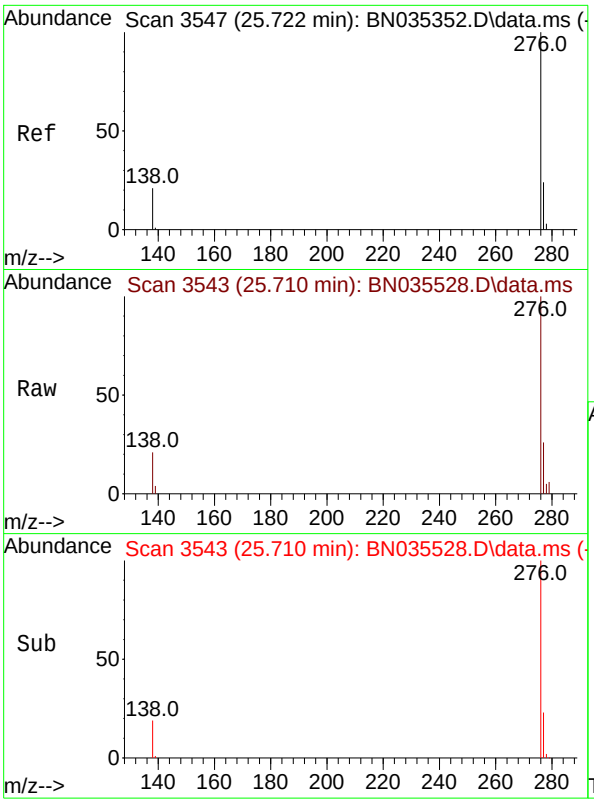


#40
Dibenzo(a,h)anthracene
Concen: 0.349 ng
RT: 25.116 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Tgt Ion:278 Resp: 6401

Ion	Ratio	Lower	Upper
278	100		
139	17.9	14.2	21.4
279	29.3	20.5	30.7



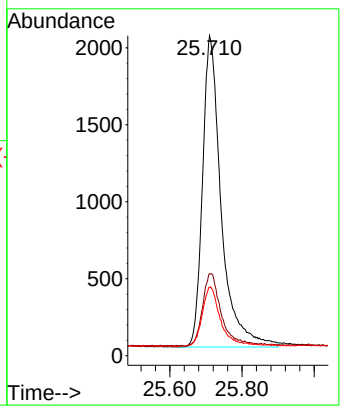


#41
Benzo(g,h,i)perylene
Concen: 0.381 ng
RT: 25.710 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN035528.D
Acq: 10 Dec 2024 11:21

Instrument :
BNA_N
ClientSampleId :
PB165497BS

Tgt Ion:276 Resp: 7301

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035529.D
Acq On : 10 Dec 2024 12:03
Operator : RC/JU
Sample : PB165497BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Quant Time: Dec 10 12:29:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.293	152	1941	0.400	ng	-0.01
7) Naphthalene-d8	10.041	136	5150	0.400	ng	#-0.01
13) Acenaphthene-d10	13.957	164	3668	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9298	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7541	0.400	ng	# 0.00
35) Perylene-d12	23.062	264	6738	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1717	0.353	ng	-0.01
5) Phenol-d6	6.499	99	2115	0.362	ng	-0.01
8) Nitrobenzene-d5	8.429	82	1569	0.499	ng	-0.01
11) 2-Methylnaphthalene-d10	11.641	152	4295	0.533	ng	-0.02
14) 2,4,6-Tribromophenol	15.475	330	578	0.222	ng	0.00
15) 2-Fluorobiphenyl	12.564	172	5507	0.397	ng	-0.01
27) Fluoranthene-d10	18.775	212	9641	0.366	ng	0.00
31) Terphenyl-d14	19.407	244	7098	0.477	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.989	88	647	0.349	ng	# 56
3) n-Nitrosodimethylamine	3.285	42	661	0.428	ng	# 94
6) bis(2-Chloroethyl)ether	6.744	93	1900	0.387	ng	99
9) Naphthalene	10.084	128	5241	0.386	ng	99
10) Hexachlorobutadiene	10.383	225	1268	0.405	ng	# 98
12) 2-Methylnaphthalene	11.717	142	3778	0.388	ng	98
16) Acenaphthylene	13.668	152	6063	0.394	ng	99
17) Acenaphthene	14.021	154	4005	0.392	ng	100
18) Fluorene	15.026	166	5751	0.393	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	209	0.229	ng	# 59
21) 4-Bromophenyl-phenylether	15.929	248	2020	0.371	ng	# 83
22) Hexachlorobenzene	16.028	284	2497	0.391	ng	98
23) Atrazine	16.227	200	1417	0.366	ng	95
24) Pentachlorophenol	16.388	266	914	0.329	ng	89
25) Phenanthrene	16.760	178	9843	0.385	ng	100
26) Anthracene	16.860	178	8899	0.385	ng	99
28) Fluoranthene	18.808	202	11483	0.334	ng	98
30) Pyrene	19.175	202	11774	0.423	ng	100
32) Benzo(a)anthracene	20.956	228	10084	0.382	ng	99
33) Chrysene	21.001	228	10858	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	20.920	149	4232	0.406	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	9995	0.379	ng	96
37) Benzo(b)fluoranthene	22.450	252	11361	0.461	ng	98
38) Benzo(k)fluoranthene	22.491	252	10907	0.450	ng	97
39) Benzo(a)pyrene	22.971	252	8432	0.415	ng	97
40) Dibenzo(a,h)anthracene	25.126	278	7420	0.357	ng	96
41) Benzo(g,h,i)perylene	25.713	276	8161	0.376	ng	98

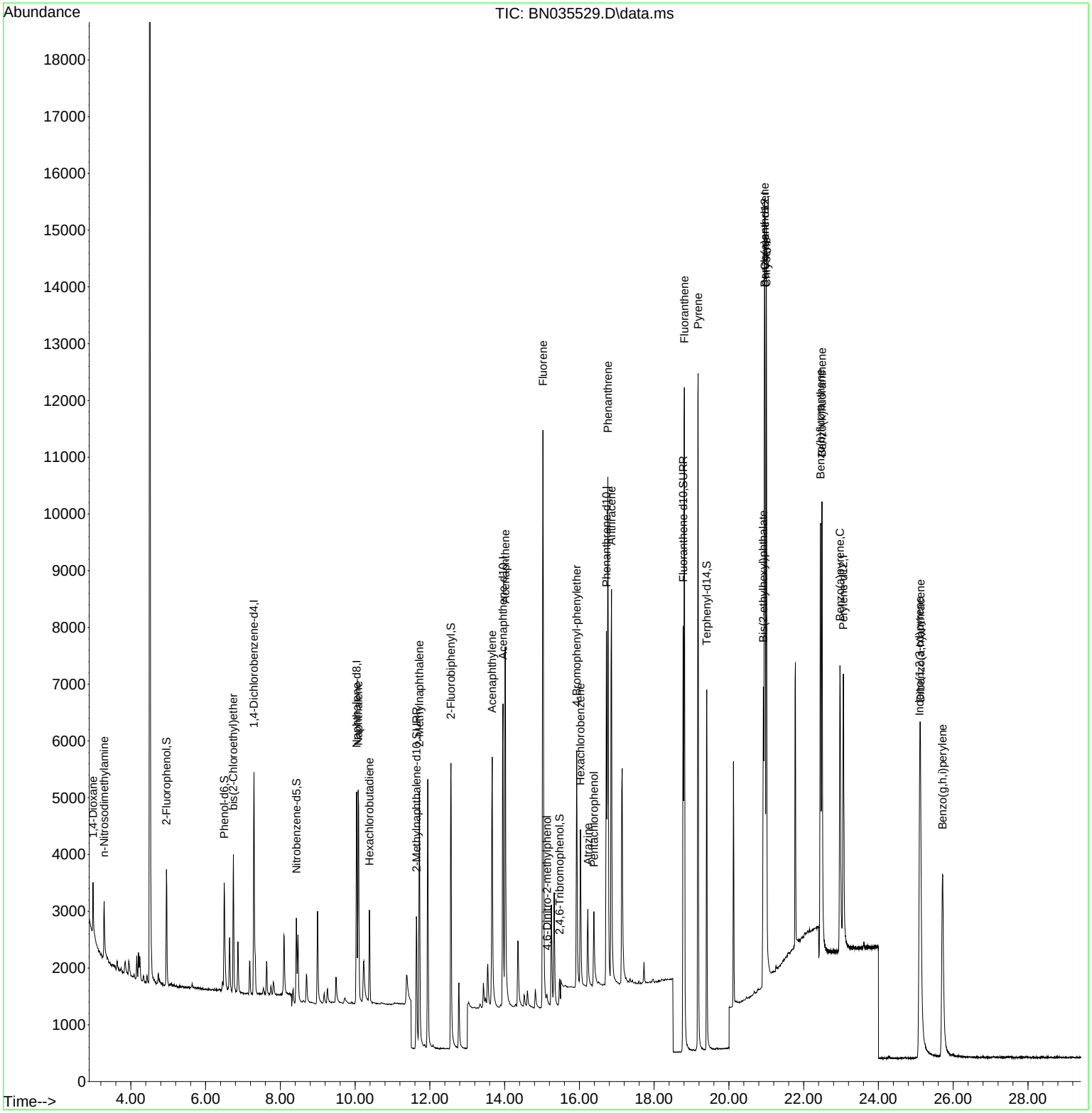
(#) = qualifier out of range (m) = manual integration (+) = signals summed

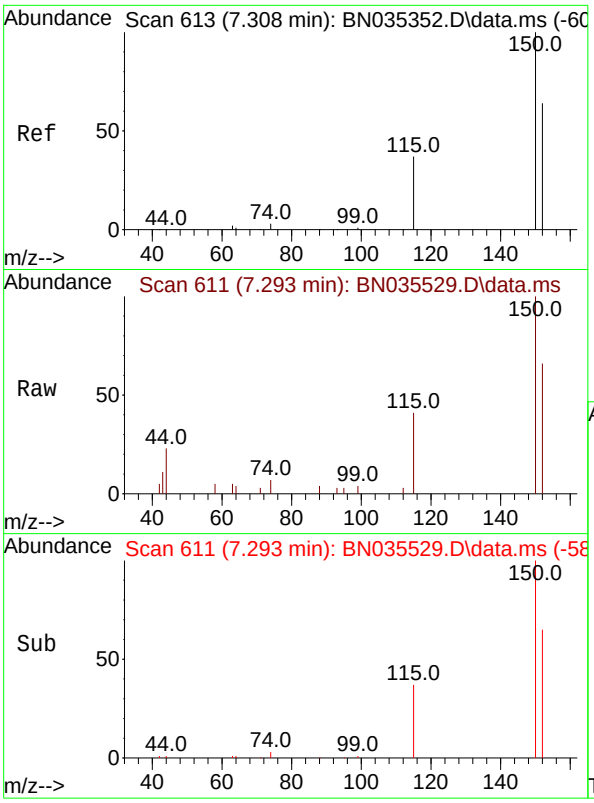
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035529.D
Acq On : 10 Dec 2024 12:03
Operator : RC/JU
Sample : PB165497BSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Quant Time: Dec 10 12:29:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



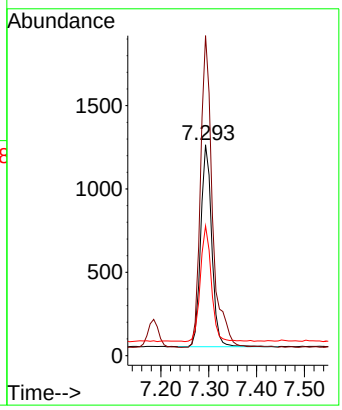


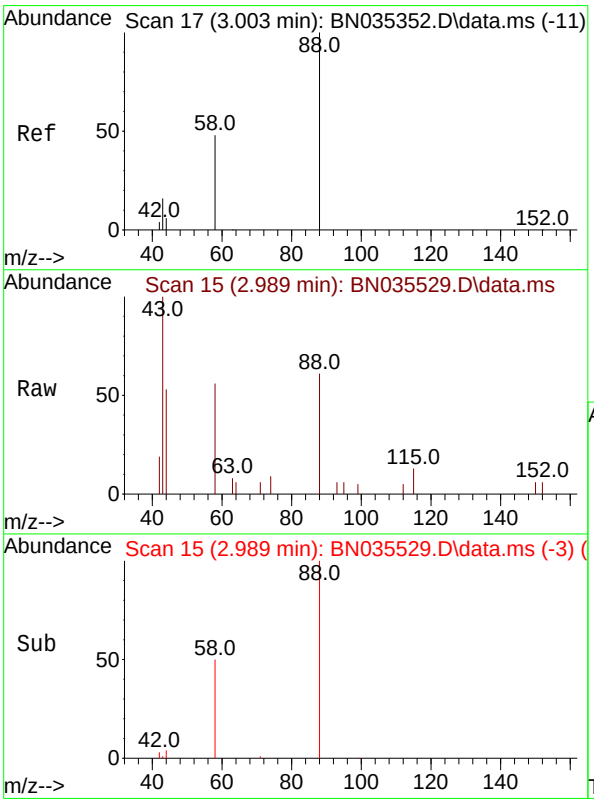
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:152 Resp: 1941

Ion	Ratio	Lower	Upper
152	100		
150	151.8	124.0	186.0
115	61.5	49.6	74.4

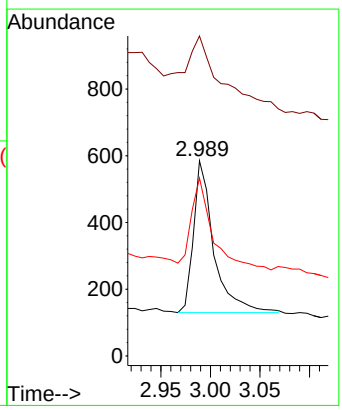


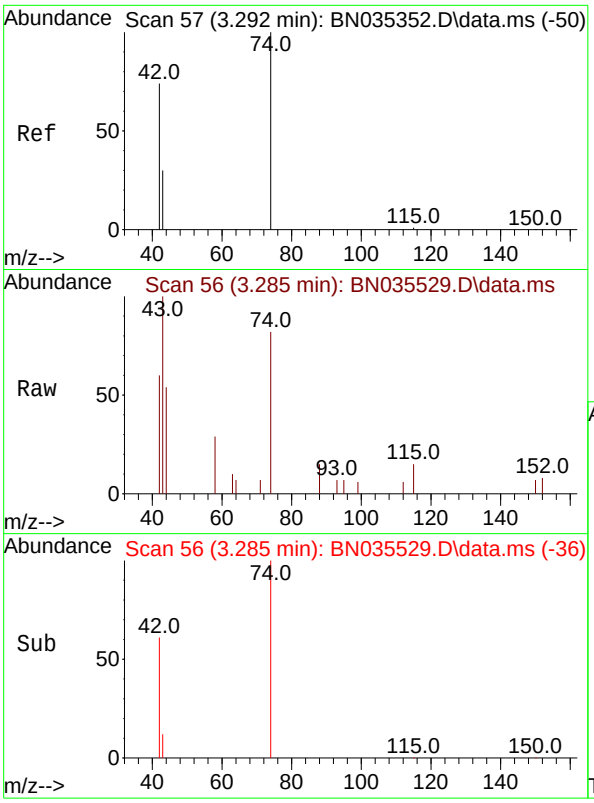


#2
1,4-Dioxane
Concen: 0.349 ng
RT: 2.989 min Scan# 15
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 88 Resp: 647

Ion	Ratio	Lower	Upper
88	100		
43	81.6	17.2	25.8#
58	63.8	44.5	66.7



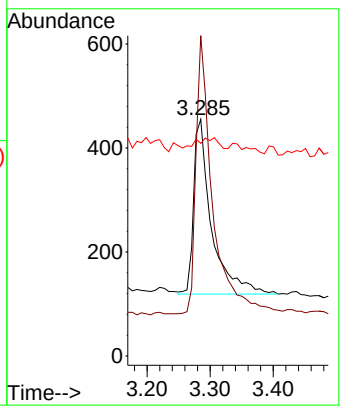


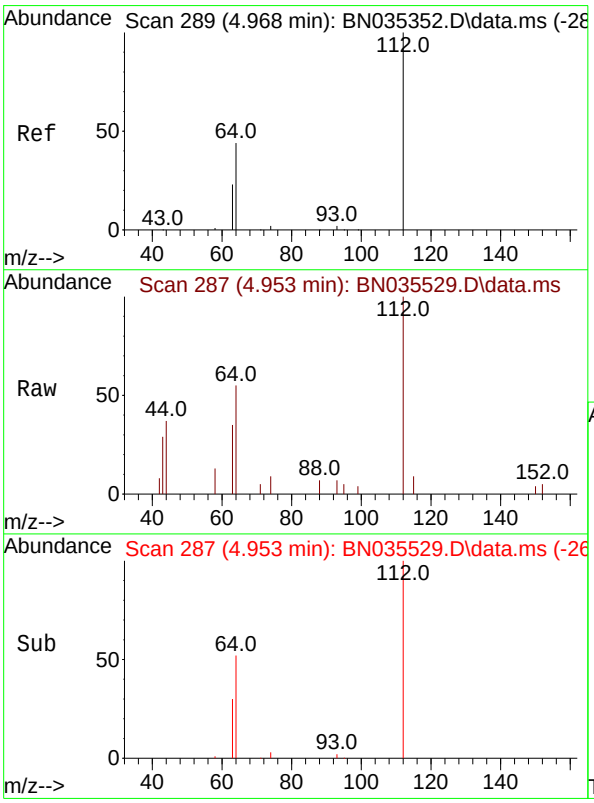
#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion: 42 Resp: 661

Ion	Ratio	Lower	Upper
42	100		
74	148.9	124.9	187.3
44	0.0	2.2	3.4#

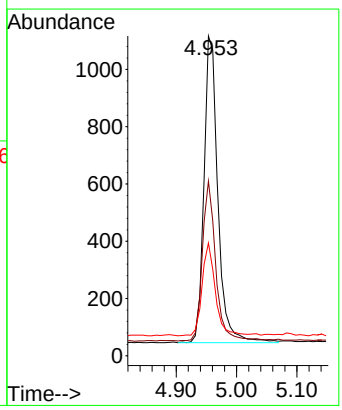


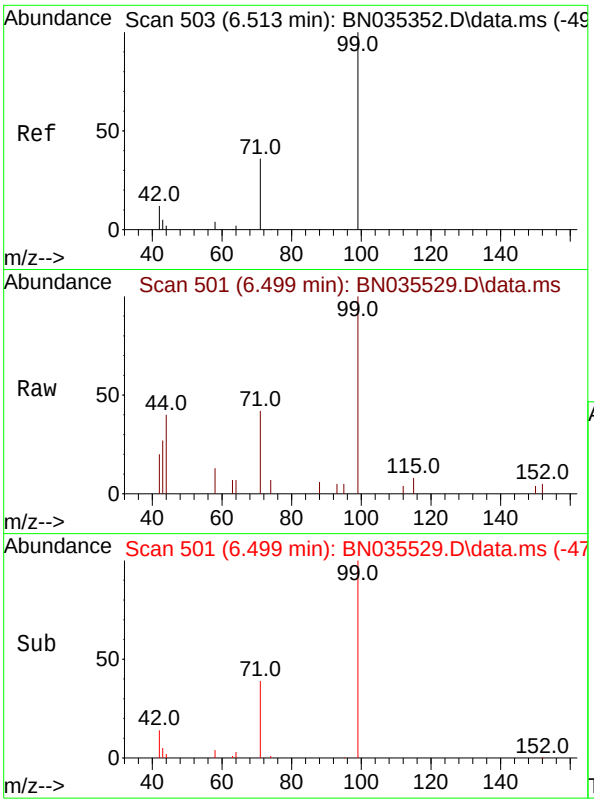


#4
2-Fluorophenol
Concen: 0.353 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:112 Resp: 1717

Ion	Ratio	Lower	Upper
112	100		
64	50.2	39.8	59.8
63	28.9	21.0	31.6



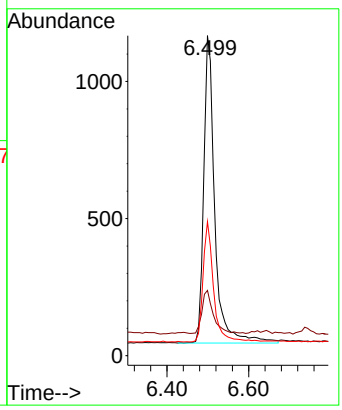


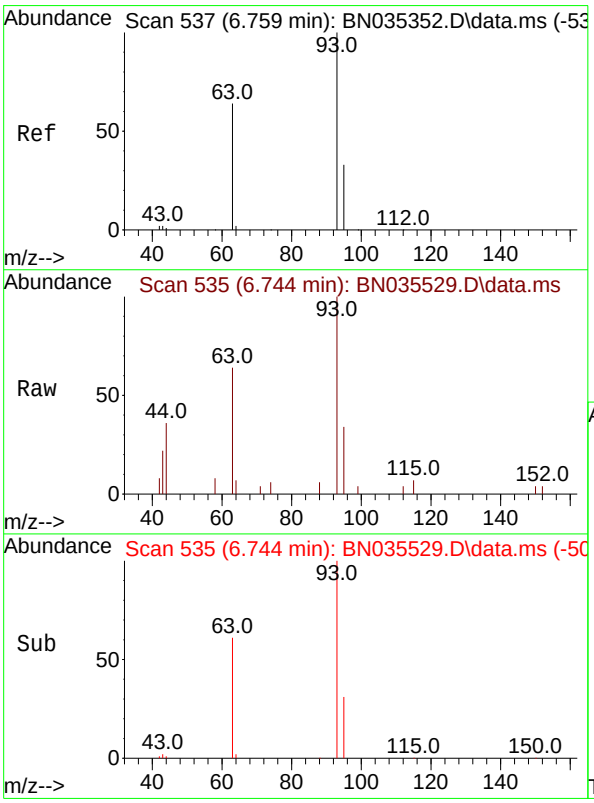
#5
Phenol-d6
Concen: 0.362 ng
RT: 6.499 min Scan# 5(
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion: 99 Resp: 2115

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9

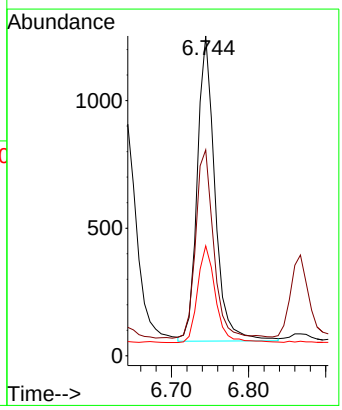


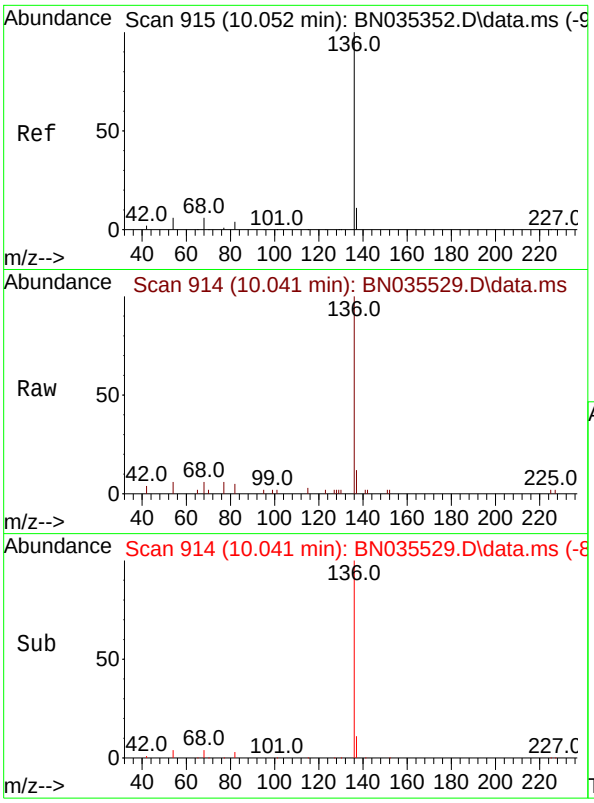


#6
bis(2-Chloroethyl)ether
Concen: 0.387 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 93 Resp: 1900

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	32.2	25.7	38.5



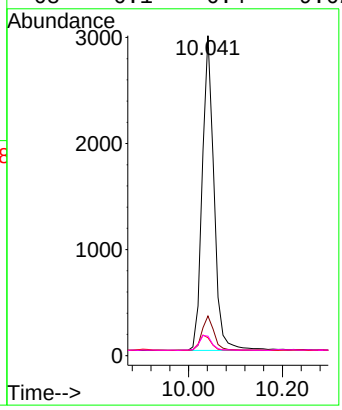


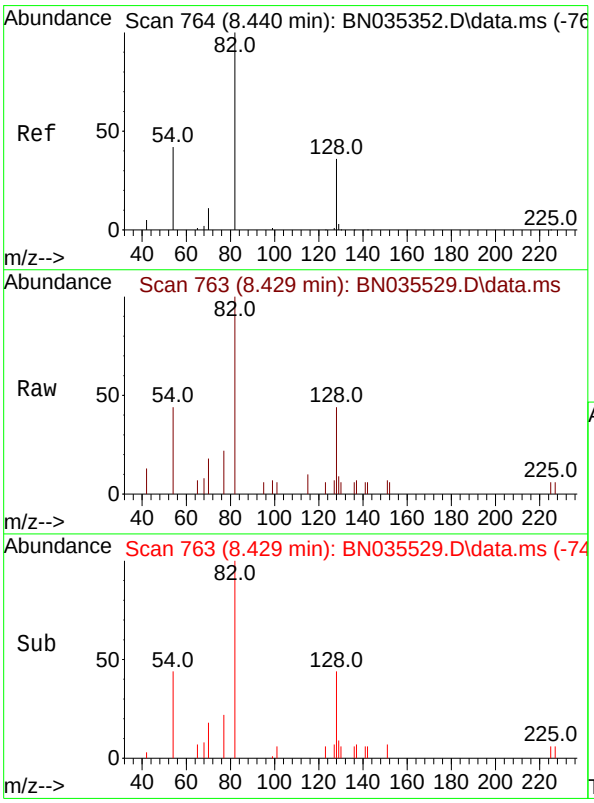
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:136 Resp: 5150

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	5.6	6.1	9.1#
68	6.1	6.4	9.6#

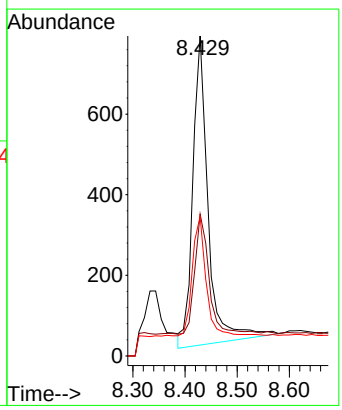


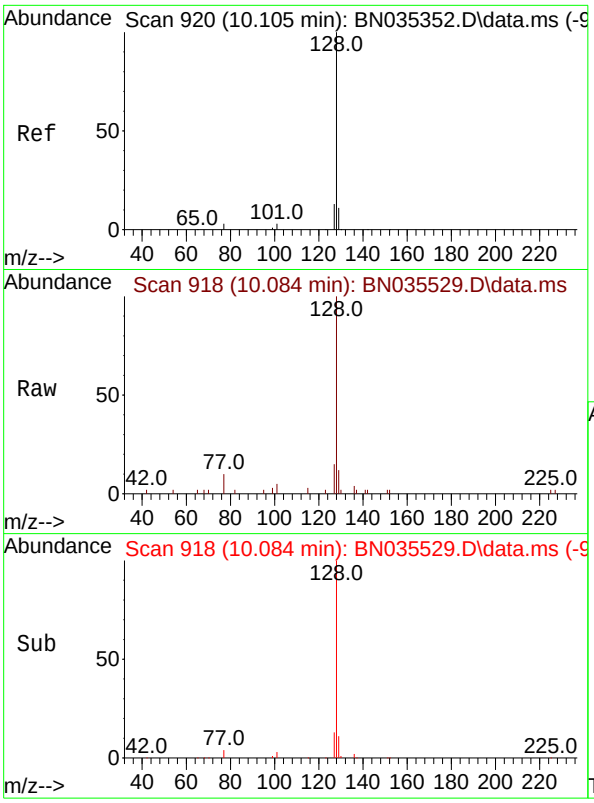


#8
Nitrobenzene-d5
Concen: 0.499 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion: 82 Resp: 1569

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.4	50.0
54	43.6	36.7	55.1



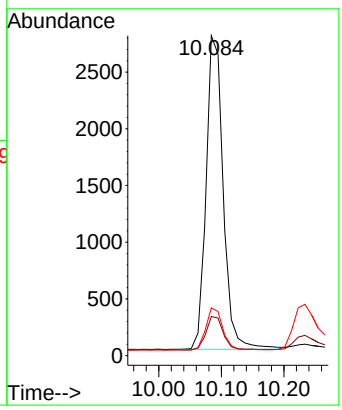


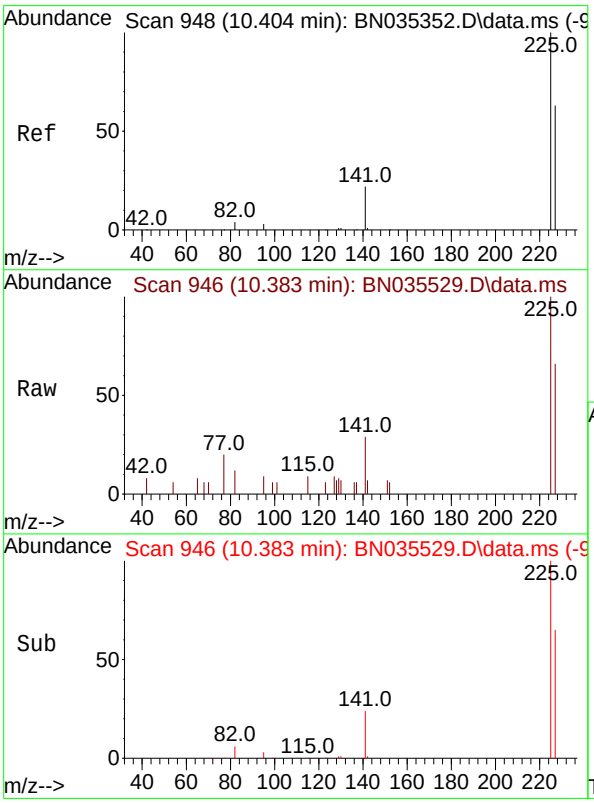
#9
Naphthalene
Concen: 0.386 ng
RT: 10.084 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:128 Resp: 5241

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.9	11.4	17.2

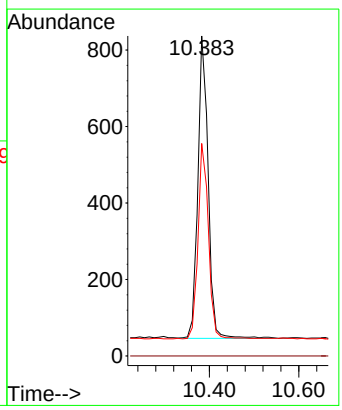


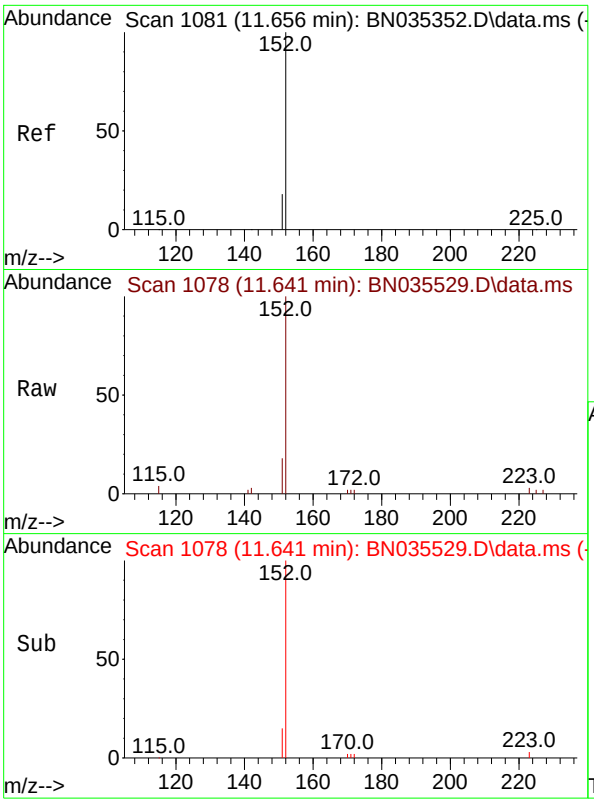


#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:225 Resp: 1268

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	51.3	76.9



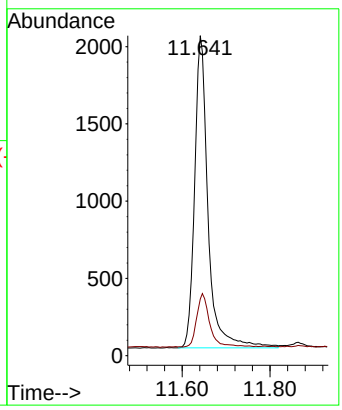


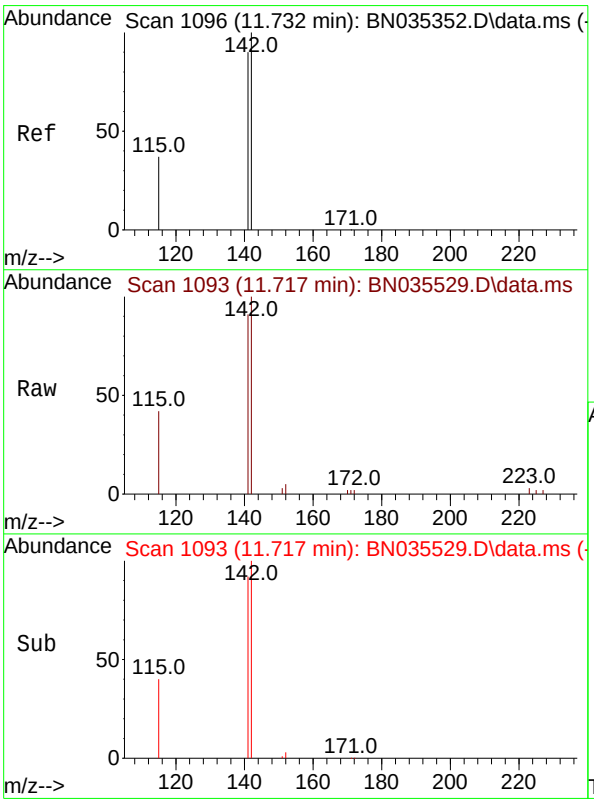
#11
2-Methylnaphthalene-d10
Concen: 0.533 ng
RT: 11.641 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:152 Resp: 4295

Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0

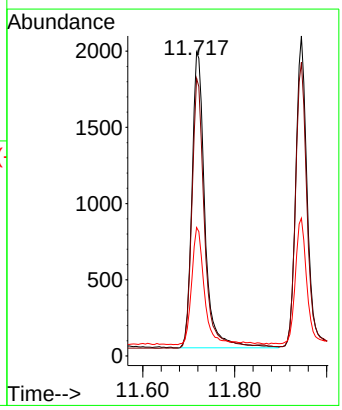


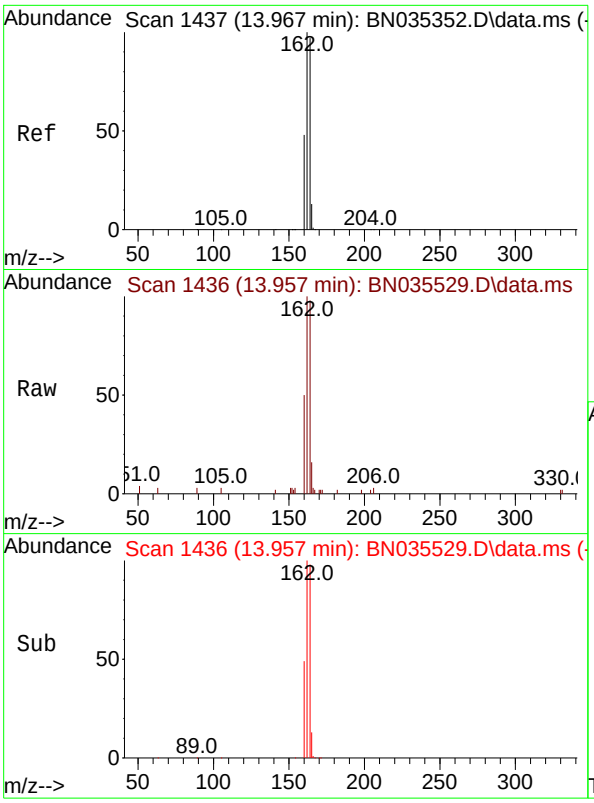


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 11.717 min Scan# 1093
Delta R.T. -0.015 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:142 Resp: 3778

Ion	Ratio	Lower	Upper
142	100		
141	91.4	72.2	108.4
115	42.3	31.4	47.0



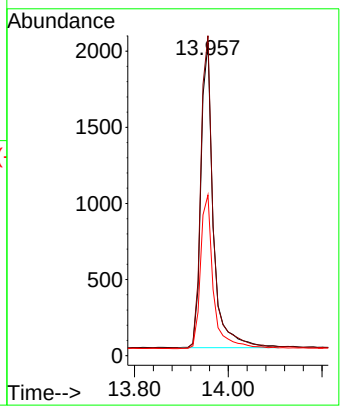


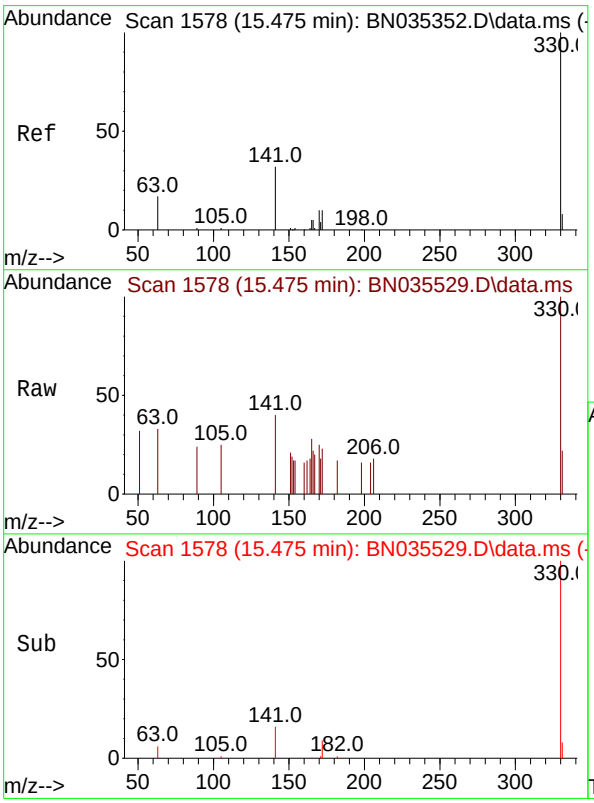
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:164 Resp: 3668

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.3	40.1	60.1

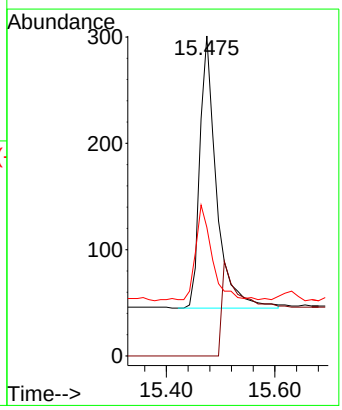


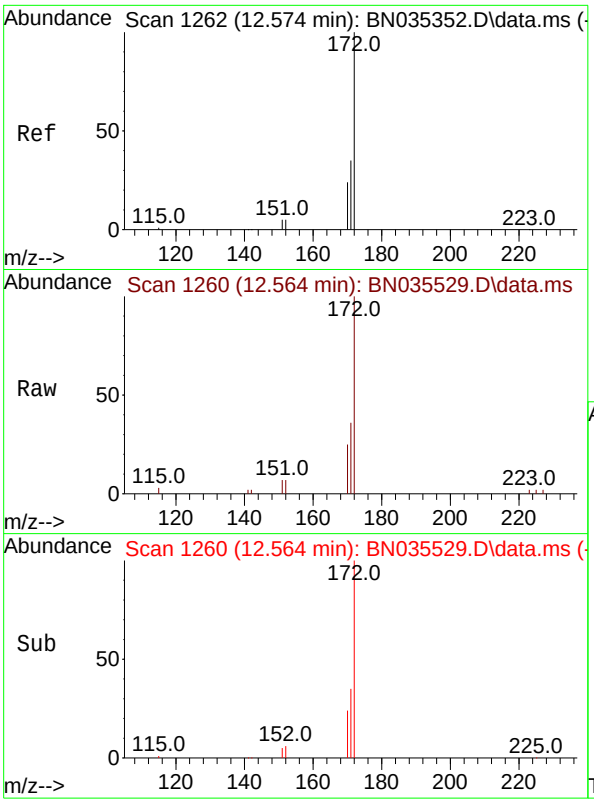


#14
2,4,6-Tribromophenol
Concen: 0.222 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:330 Resp: 578

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.9	26.6	40.0



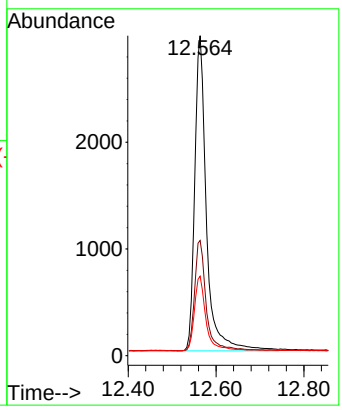


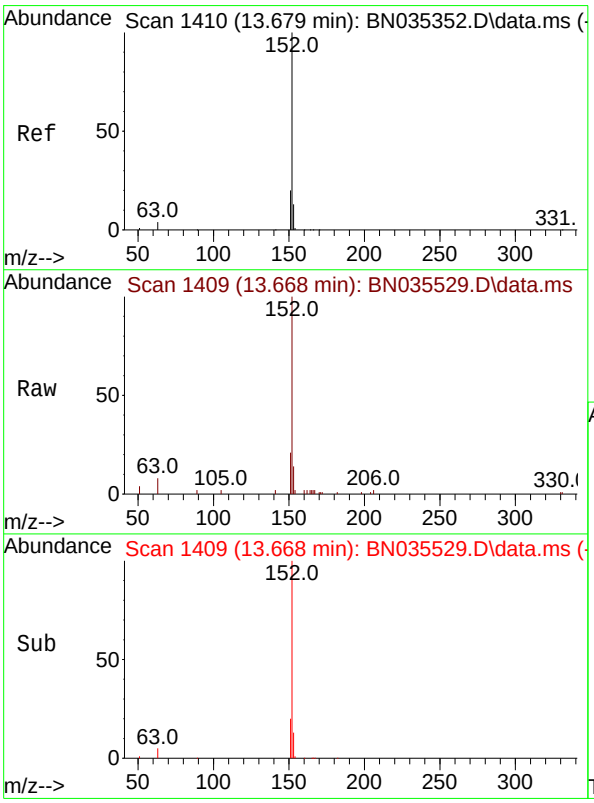
#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:172 Resp: 5507

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.8	19.8	29.8

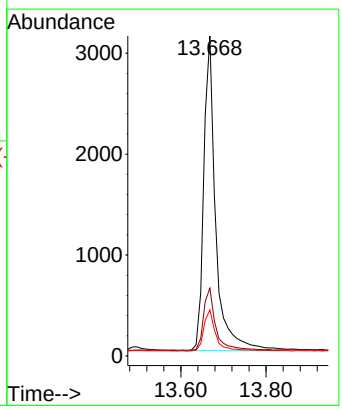


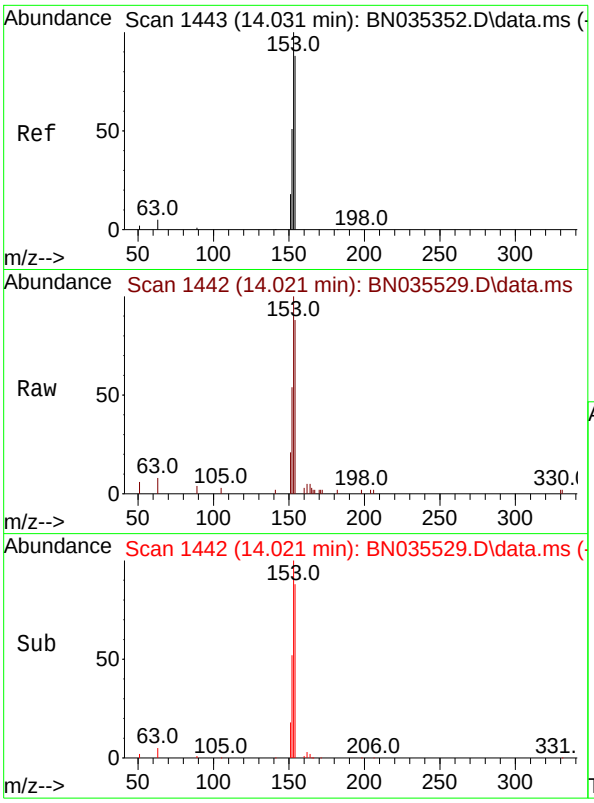


#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:152 Resp: 6063

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.4	10.4	15.6



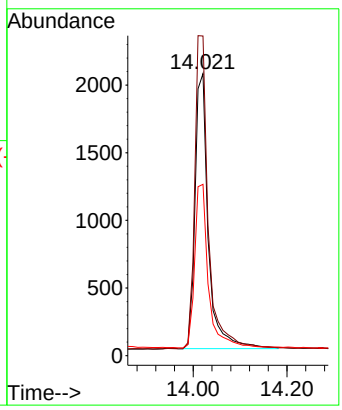


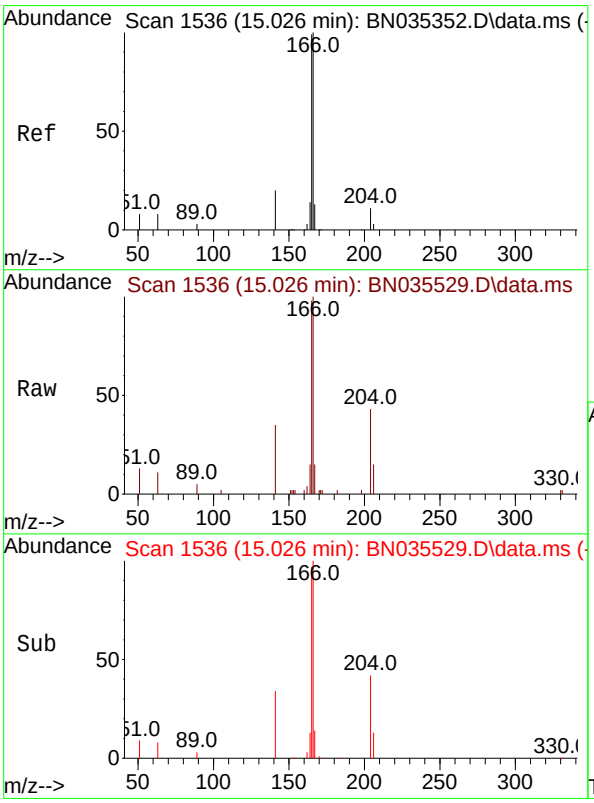
#17
Acenaphthene
Concen: 0.392 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:154 Resp: 4005

Ion	Ratio	Lower	Upper
154	100		
153	116.4	92.6	139.0
152	61.4	49.0	73.6

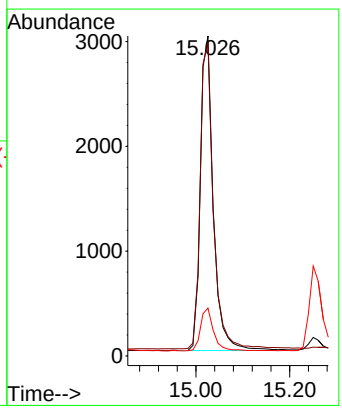


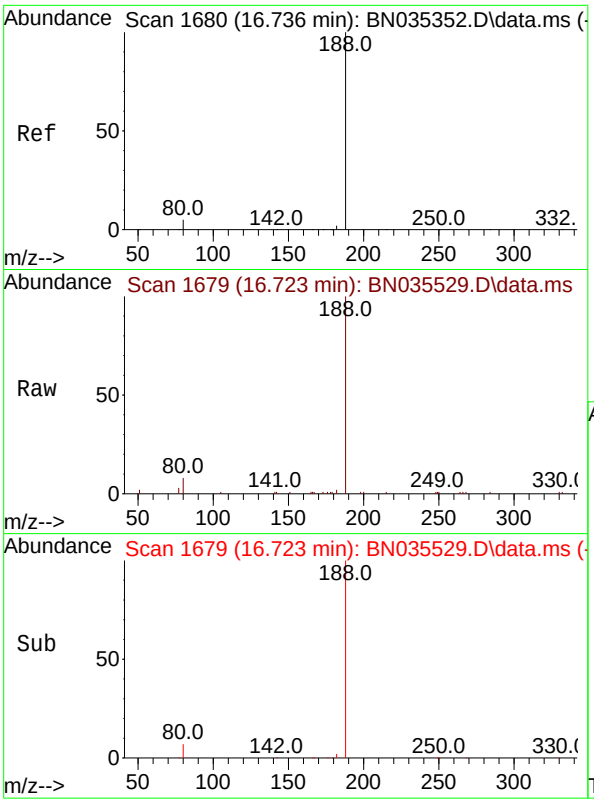


#18
Fluorene
Concen: 0.393 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:166 Resp: 5751

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.7	10.8	16.2



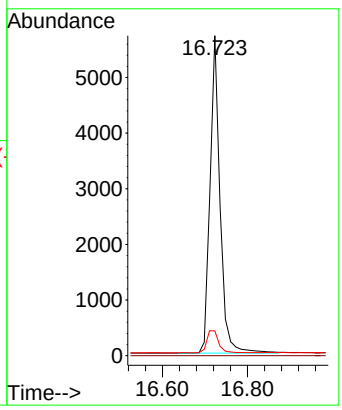


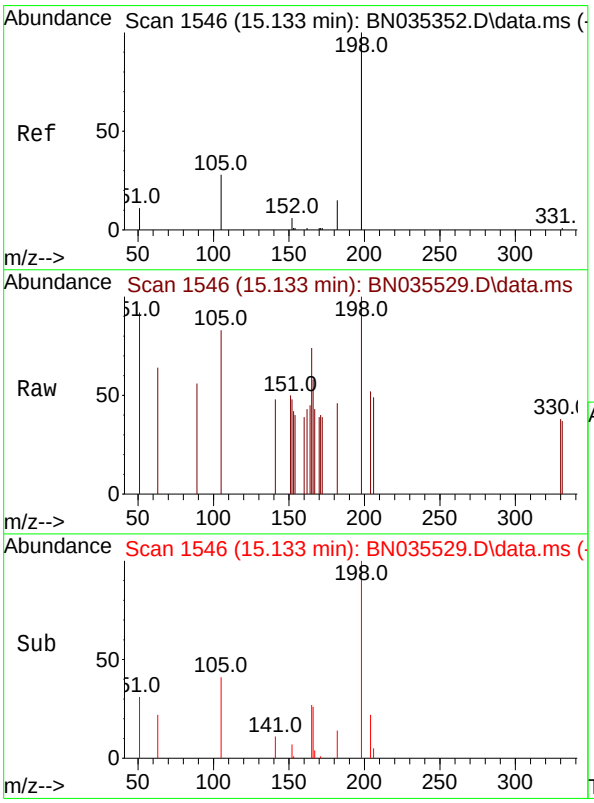
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:188 Resp: 9298

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

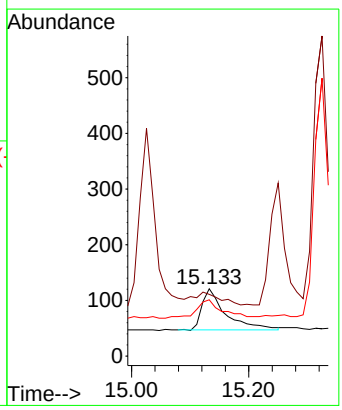


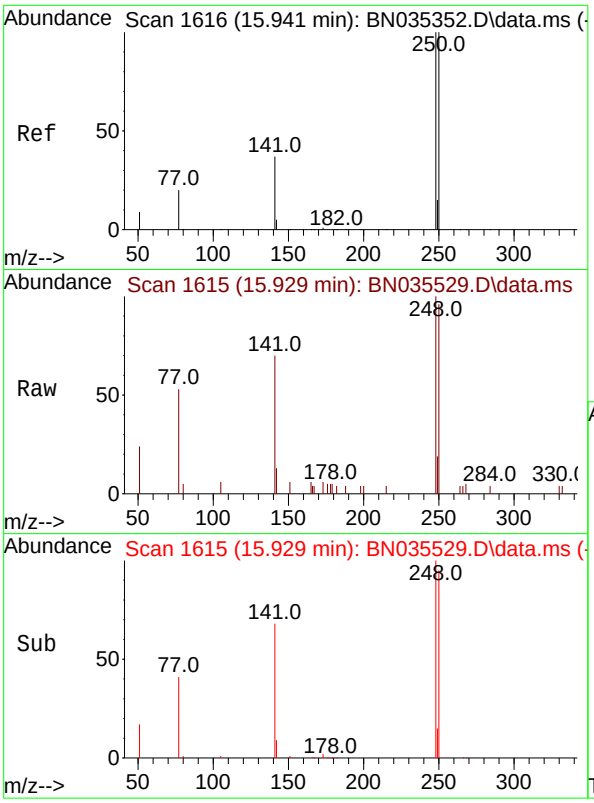


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:198 Resp: 209

Ion	Ratio	Lower	Upper
198	100		
51	91.7	46.5	69.7#
105	83.5	45.3	67.9#



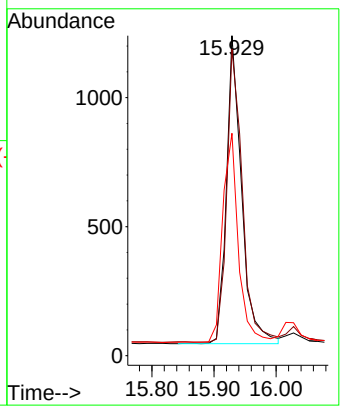


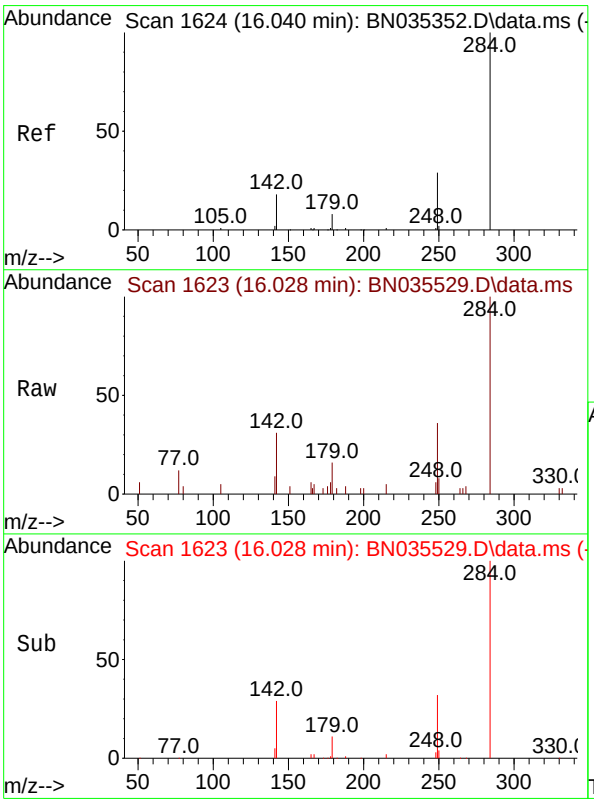
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:248 Resp: 2020

Ion	Ratio	Lower	Upper
248	100		
250	95.8	80.6	120.8
141	69.5	31.5	47.3#

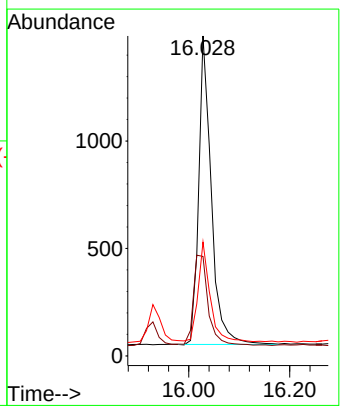


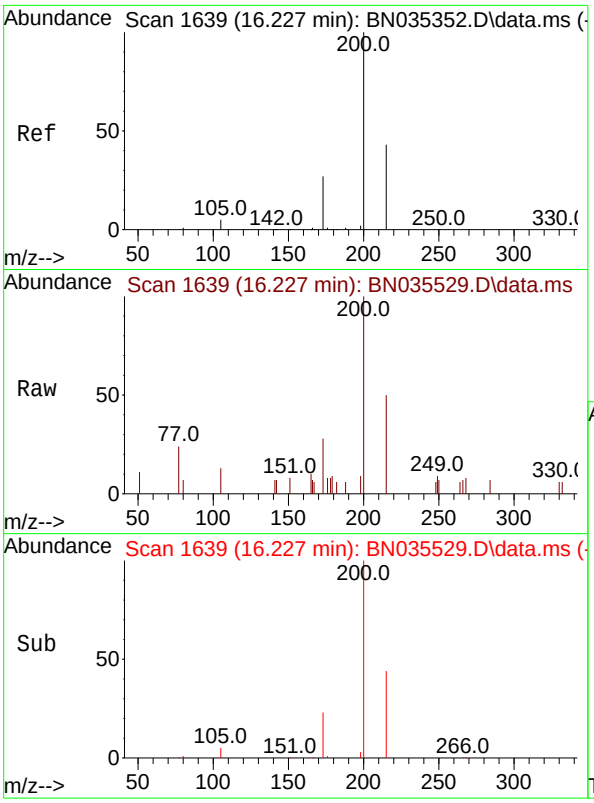


#22
Hexachlorobenzene
Concen: 0.391 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:284 Resp: 2497

Ion	Ratio	Lower	Upper
284	100		
142	34.6	26.7	40.1
249	31.4	24.6	36.8



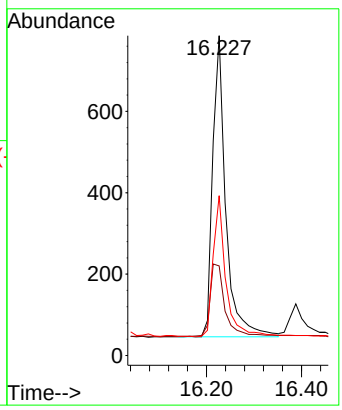


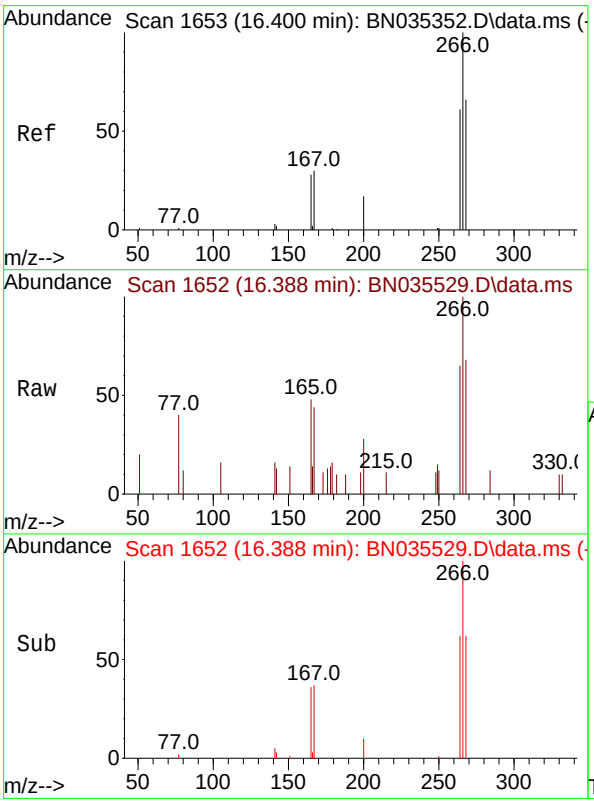
#23
Atrazine
Concen: 0.366 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:200 Resp: 1417

Ion	Ratio	Lower	Upper
200	100		
173	28.0	24.1	36.1
215	50.0	36.9	55.3

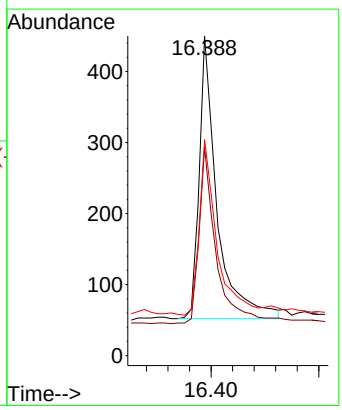


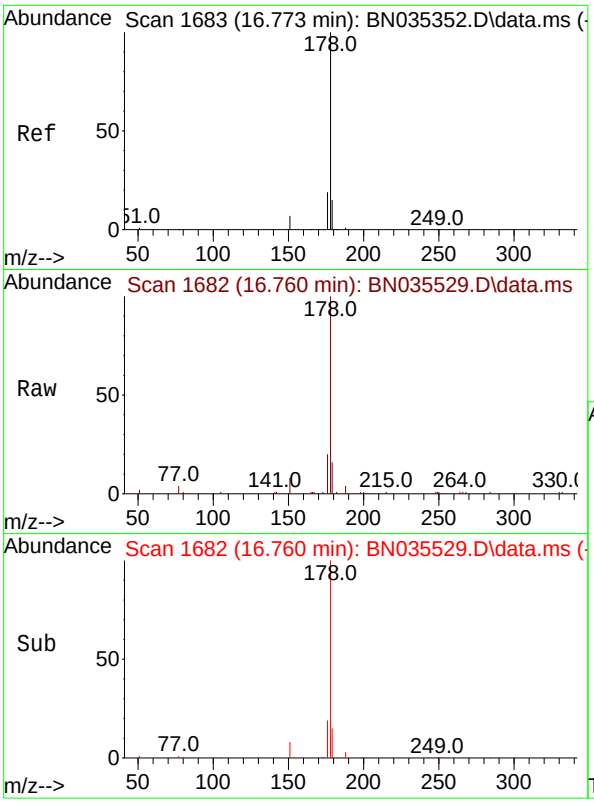


#24
Pentachlorophenol
Concen: 0.329 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:266 Resp: 914

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.2	43.3	64.9



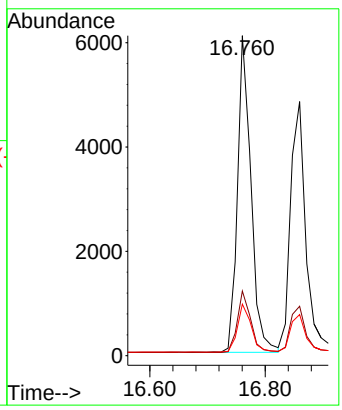


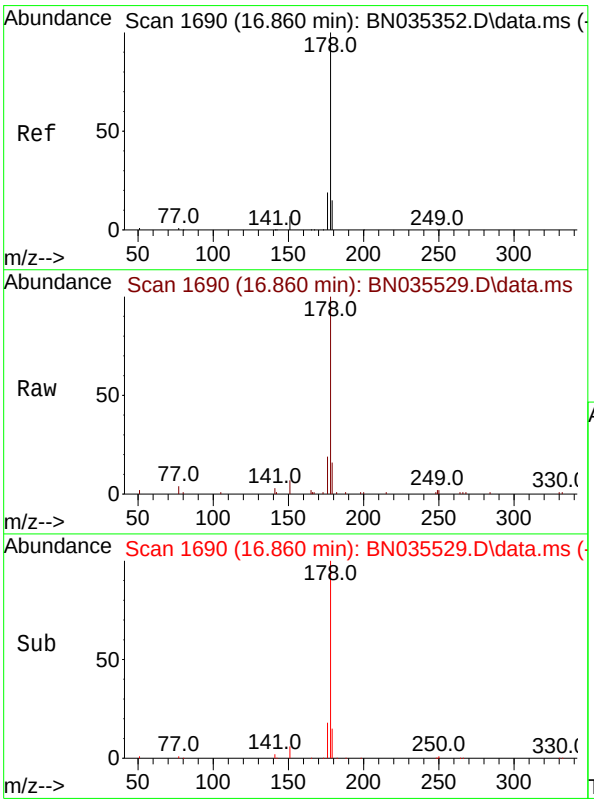
#25
Phenanthrene
Concen: 0.385 ng
RT: 16.760 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:178 Resp: 9843

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5

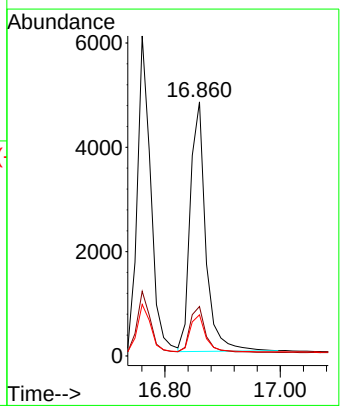


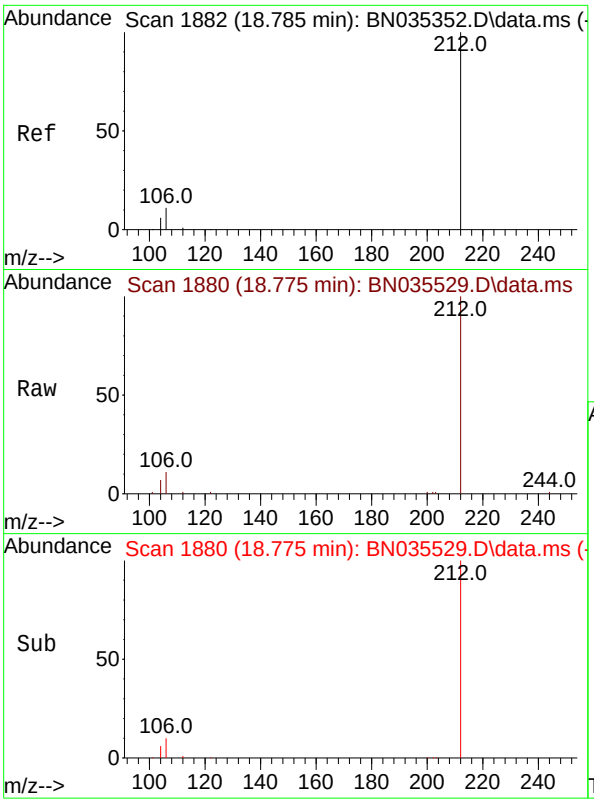


#26
Anthracene
Concen: 0.385 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:178 Resp: 8899

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.0	12.6	18.8



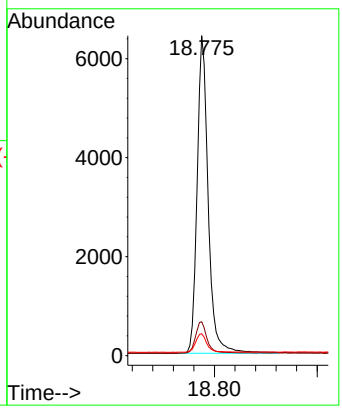


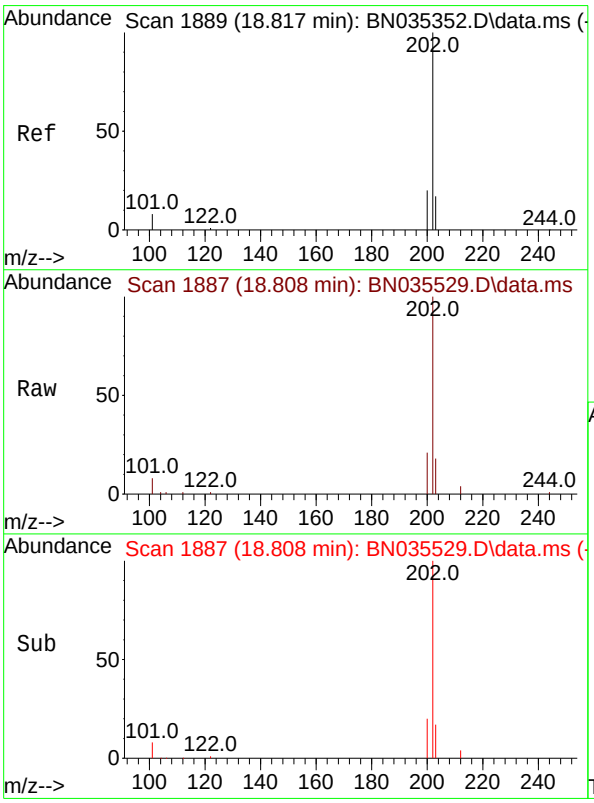
#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:212 Resp: 9641

Ion	Ratio	Lower	Upper
212	100		
106	10.3	9.2	13.8
104	6.0	5.3	7.9

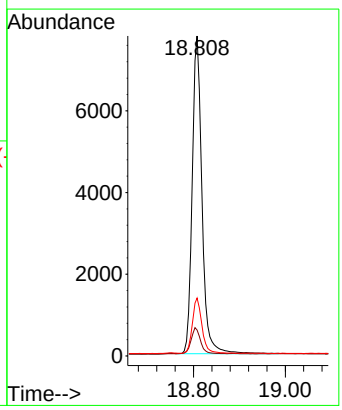


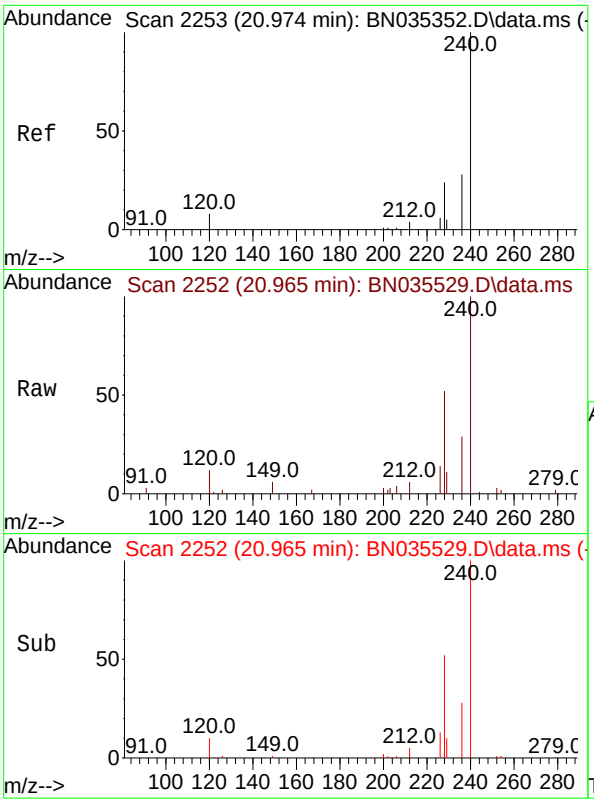


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:202 Resp: 11483

Ion	Ratio	Lower	Upper
202	100		
101	7.9	7.4	11.0
203	16.9	13.7	20.5



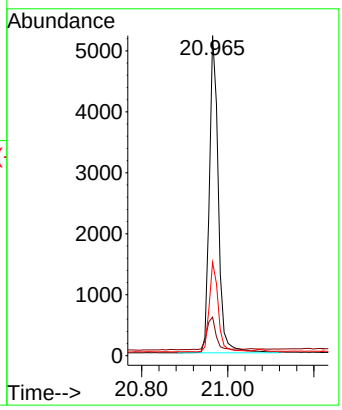


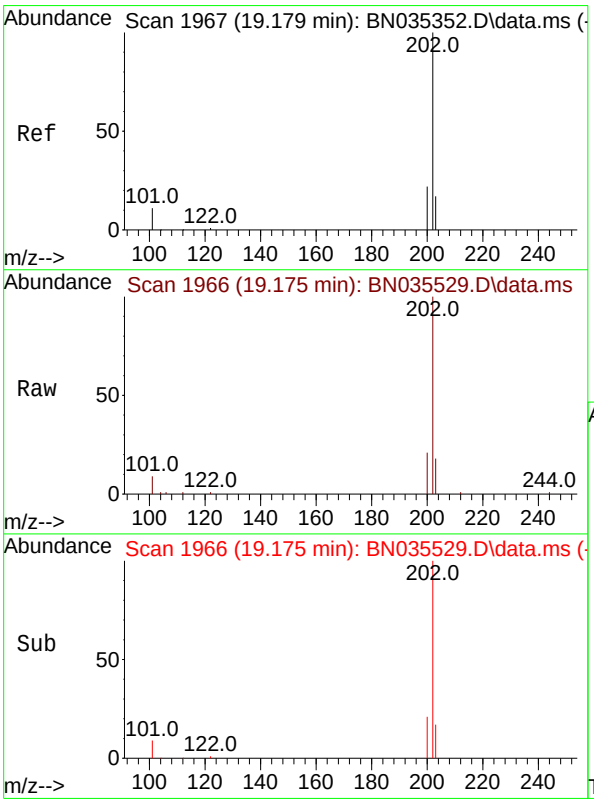
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:240 Resp: 7541

Ion	Ratio	Lower	Upper
240	100		
120	12.0	7.9	11.9#
236	29.2	22.9	34.3

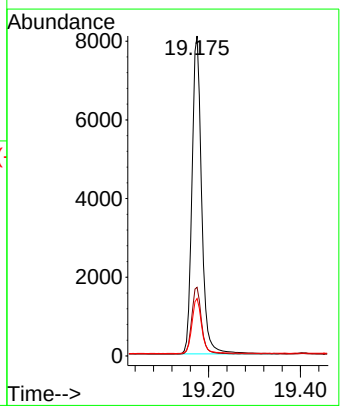


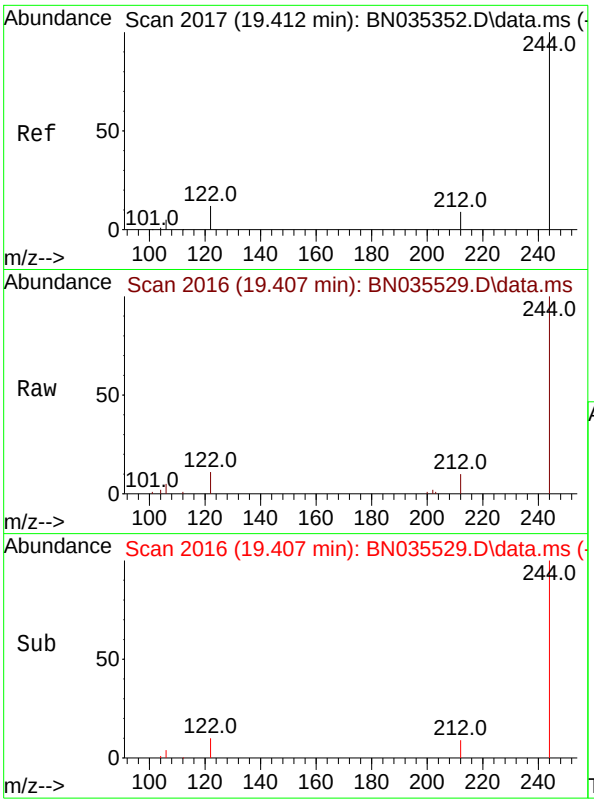


#30
Pyrene
Concen: 0.423 ng
RT: 19.175 min Scan# 1966
Delta R.T. -0.005 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:202 Resp: 11774

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5



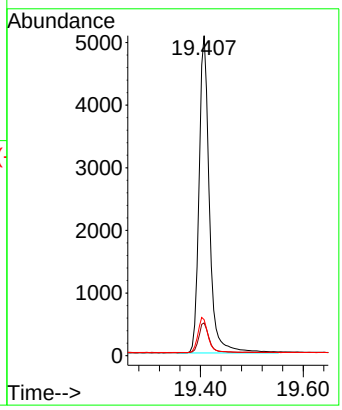


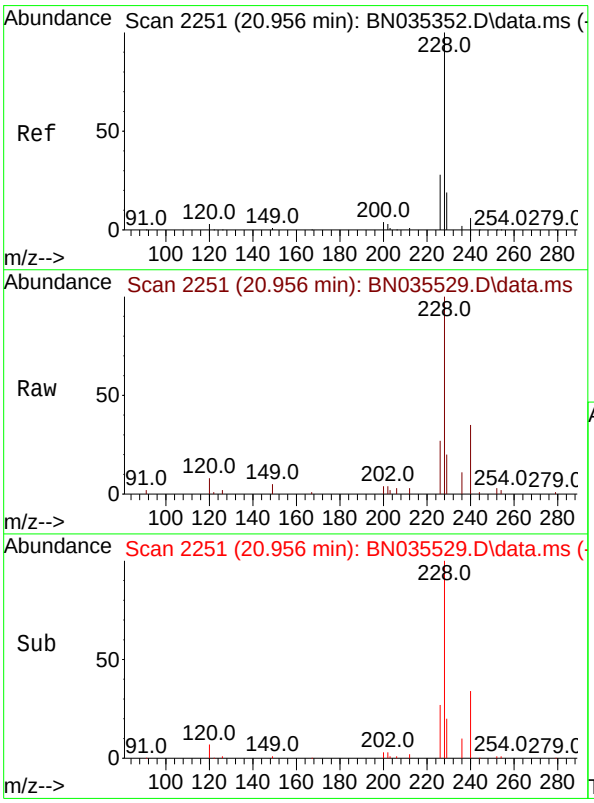
#31
Terphenyl-d14
Concen: 0.477 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:244 Resp: 7098

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	11.2	10.3	15.5

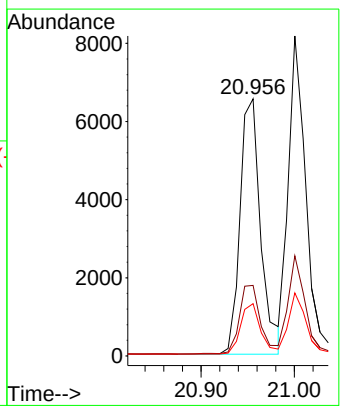


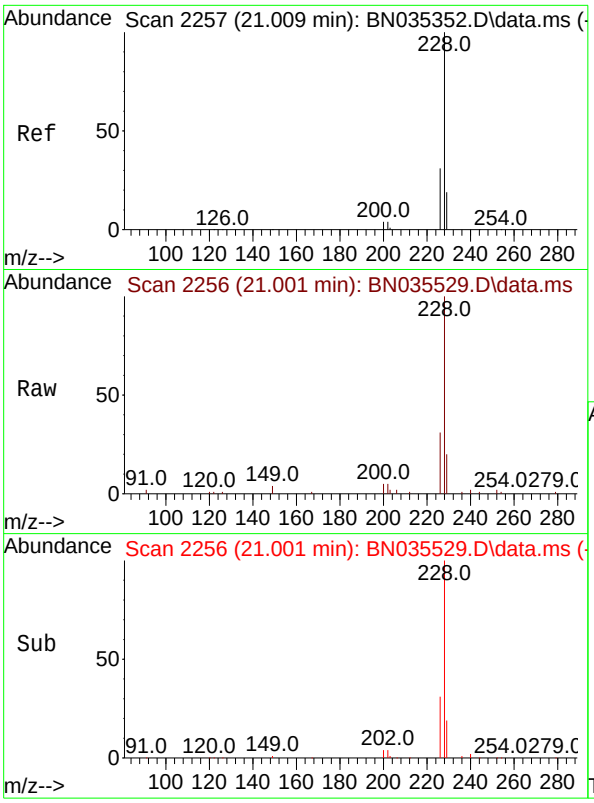


#32
Benzo(a)anthracene
Concen: 0.382 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:228 Resp: 10084

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	20.3	15.8	23.8



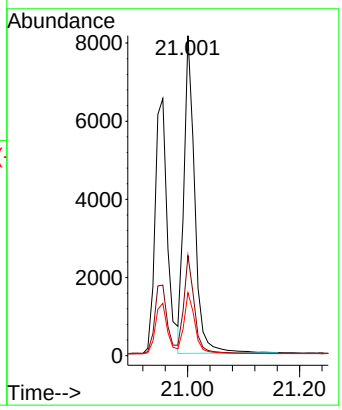


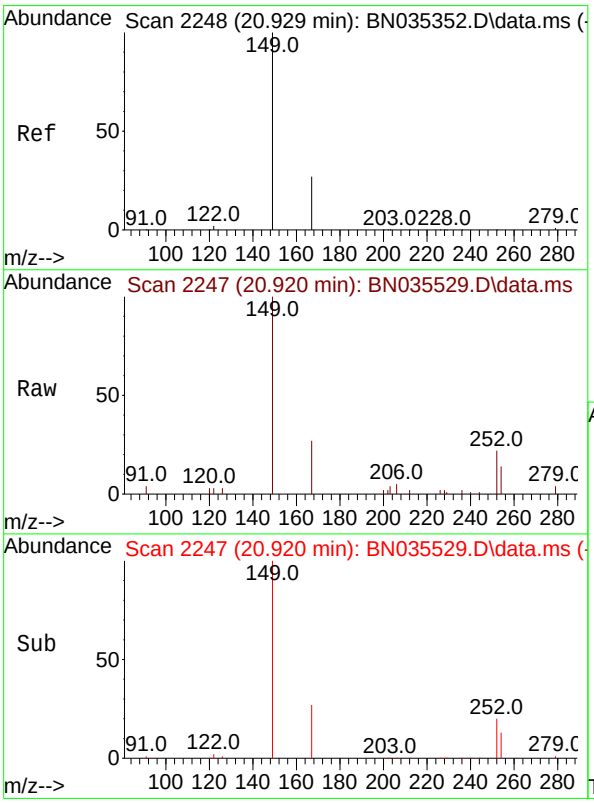
#33
Chrysene
Concen: 0.399 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:228 Resp: 10858

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.7	15.9	23.9

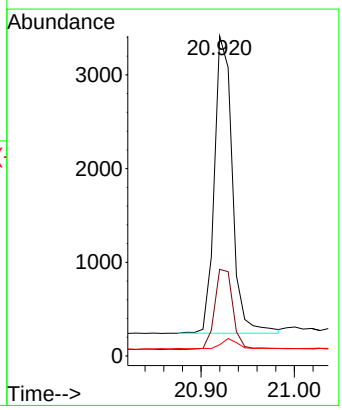


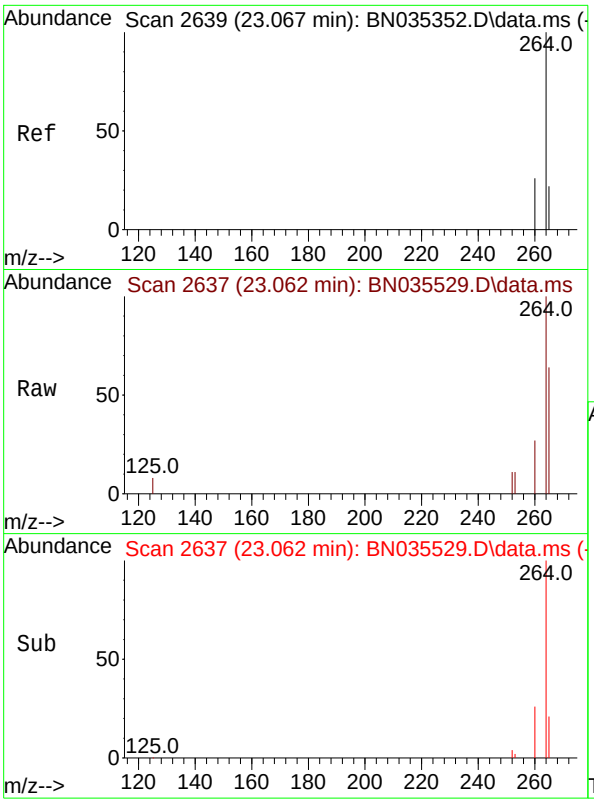


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.406 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:149 Resp: 4232

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.2	2.7	4.1



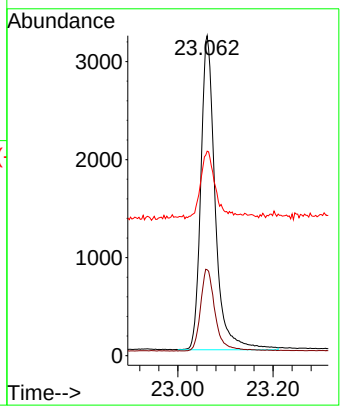


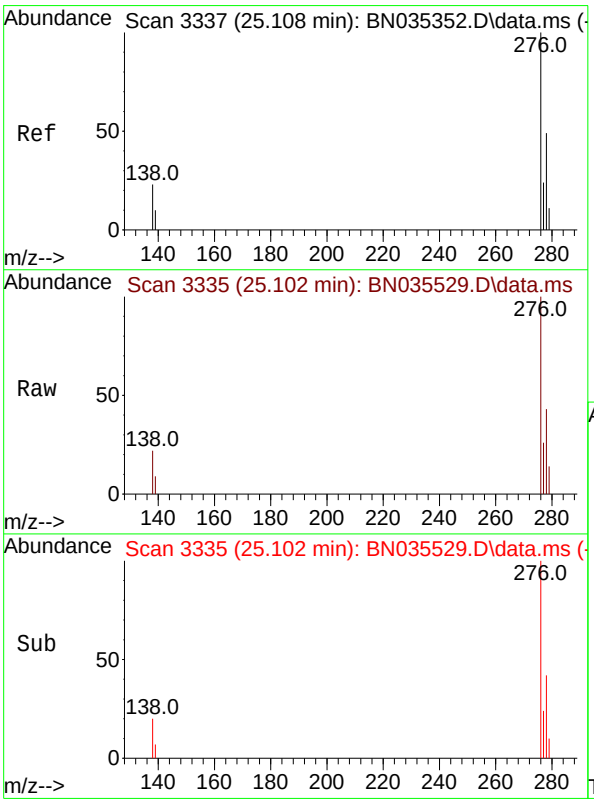
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.062 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:264 Resp: 6738

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	63.9	40.2	60.4#

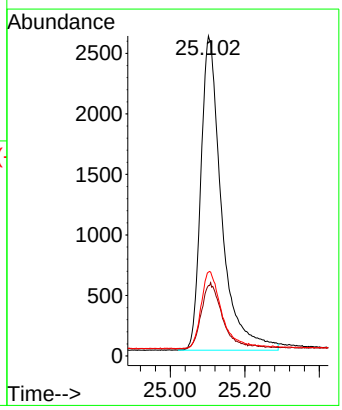


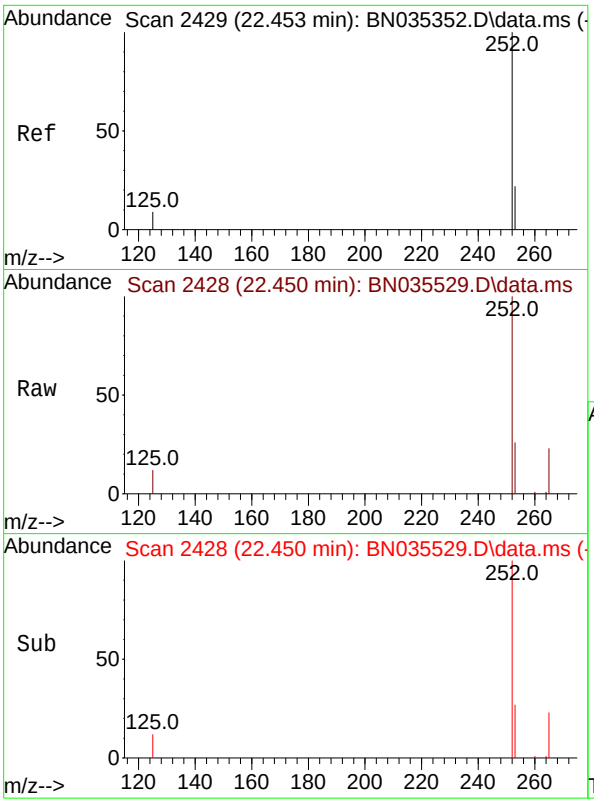


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:276 Resp: 9995

Ion	Ratio	Lower	Upper
276	100		
138	20.8	19.4	29.0
277	25.0	19.8	29.6



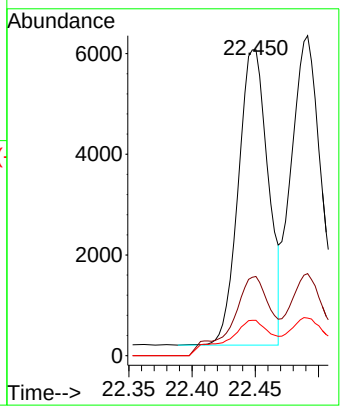


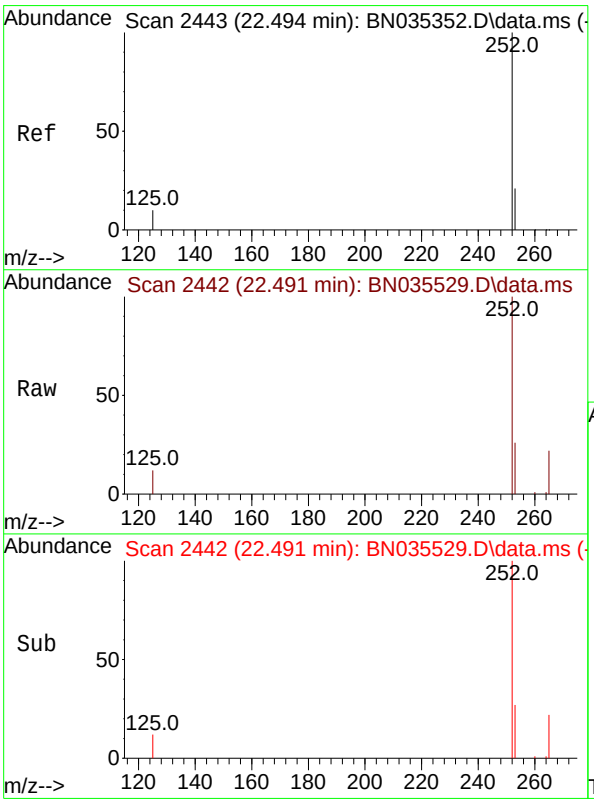
#37
Benzo(b)fluoranthene
Concen: 0.461 ng
RT: 22.450 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:252 Resp: 11361

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	11.5	9.6	14.4

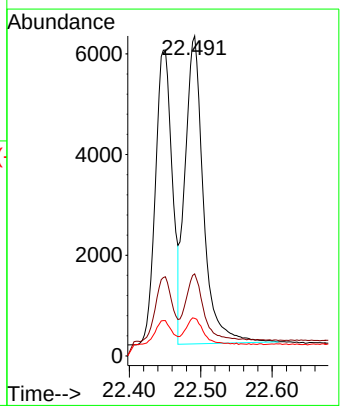


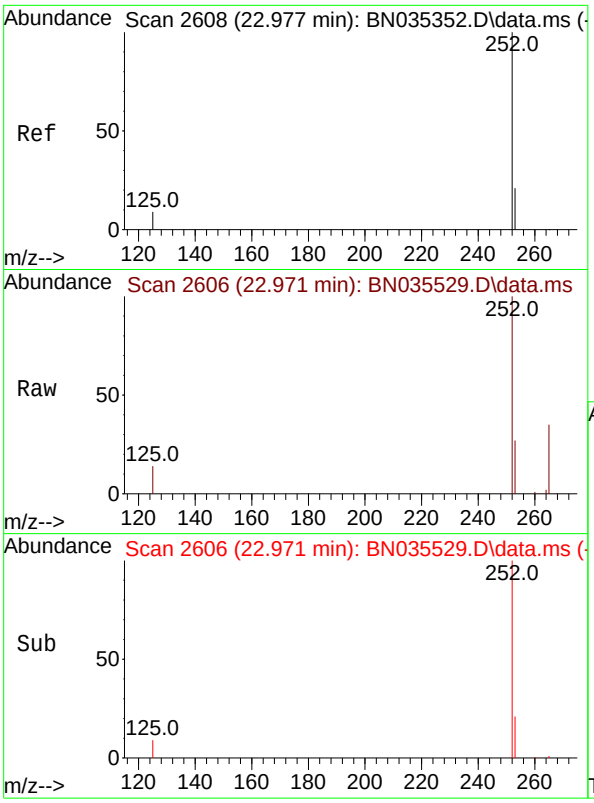


#38
Benzo(k)fluoranthene
Concen: 0.450 ng
RT: 22.491 min Scan# 2442
Delta R.T. -0.003 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:252 Resp: 10907

Ion	Ratio	Lower	Upper
252	100		
253	25.6	19.5	29.3
125	11.7	10.2	15.4



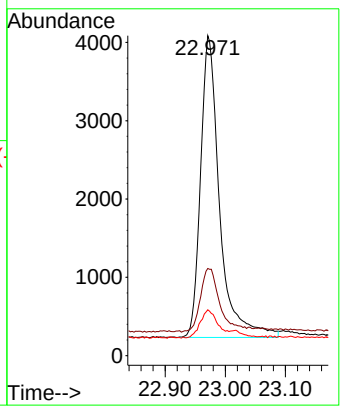


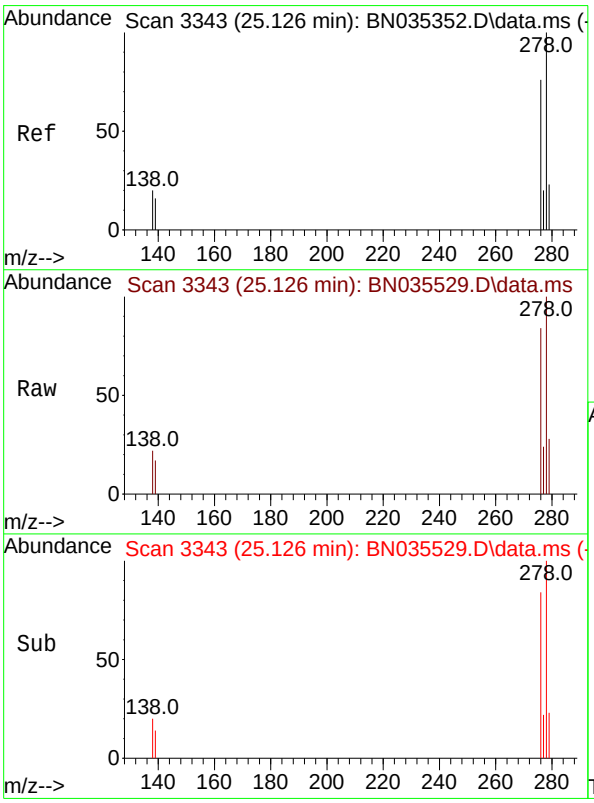
#39
Benzo(a)pyrene
Concen: 0.415 ng
RT: 22.971 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:252 Resp: 8432

Ion	Ratio	Lower	Upper
252	100		
253	27.2	20.2	30.4
125	14.3	10.9	16.3

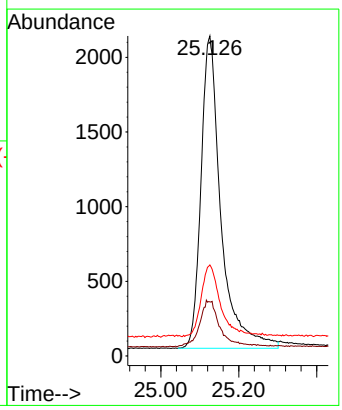


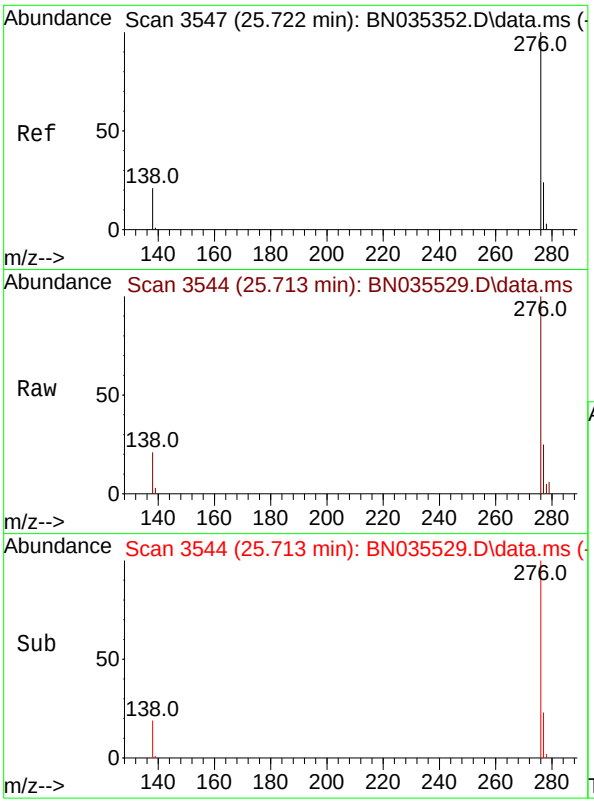


#40
Dibenzo(a,h)anthracene
Concen: 0.357 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Tgt Ion:278 Resp: 7420

Ion	Ratio	Lower	Upper
278	100		
139	16.9	14.2	21.4
279	28.5	20.5	30.7



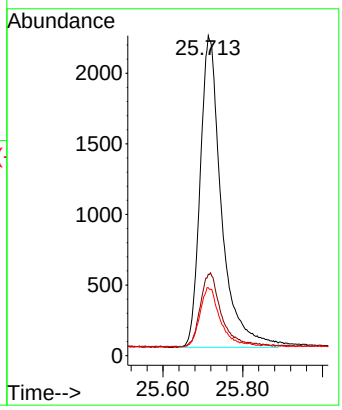


#41
Benzo(g,h,i)perylene
Concen: 0.376 ng
RT: 25.713 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN035529.D
Acq: 10 Dec 2024 12:03

Instrument :
BNA_N
ClientSampleId :
PB165497BSD

Tgt Ion:276 Resp: 8161

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	21.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.293	152	1649	0.400	ng		-0.01
7) Naphthalene-d8	10.041	136	4653	0.400	ng		-0.01
13) Acenaphthene-d10	13.957	164	3559	0.400	ng		-0.01
19) Phenanthrene-d10	16.723	188	8829	0.400	ng		#-0.01
29) Chrysene-d12	20.965	240	7037	0.400	ng		0.00
35) Perylene-d12	23.059	264	6876	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.953	112	1627	0.394	ng		-0.01
5) Phenol-d6	6.499	99	1989	0.401	ng		-0.01
8) Nitrobenzene-d5	8.429	82	1397	0.492	ng		-0.01
11) 2-Methylnaphthalene-d10	11.646	152	2835	0.389	ng		-0.01
14) 2,4,6-Tribromophenol	15.475	330	899	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.564	172	5182	0.385	ng		-0.01
27) Fluoranthene-d10	18.775	212	8270	0.330	ng		0.00
31) Terphenyl-d14	19.402	244	5792	0.417	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	622	0.395	ng		97
3) n-Nitrosodimethylamine	3.292	42	529	0.403	ng	#	94
6) bis(2-Chloroethyl)ether	6.744	93	1499	0.359	ng		99
9) Naphthalene	10.095	128	4751	0.387	ng		99
10) Hexachlorobutadiene	10.383	225	1177	0.416	ng	#	99
12) 2-Methylnaphthalene	11.722	142	3358	0.382	ng		97
16) Acenaphthylene	13.668	152	5536	0.370	ng		99
17) Acenaphthene	14.021	154	3879	0.391	ng		98
18) Fluorene	15.026	166	5544	0.390	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	246	0.283	ng	#	71
21) 4-Bromophenyl-phenylether	15.929	248	1928	0.373	ng	#	86
22) Hexachlorobenzene	16.028	284	2468	0.407	ng		100
23) Atrazine	16.227	200	1287	0.350	ng		95
24) Pentachlorophenol	16.388	266	713	0.270	ng	#	84
25) Phenanthrene	16.760	178	9191	0.379	ng		100
26) Anthracene	16.860	178	7969	0.363	ng		100
28) Fluoranthene	18.808	202	10852	0.332	ng		99
30) Pyrene	19.170	202	11027	0.425	ng		100
32) Benzo(a)anthracene	20.947	228	8623	0.350	ng		99
33) Chrysene	21.001	228	10141	0.400	ng		100
34) Bis(2-ethylhexyl)phtha...	20.920	149	3712	0.382	ng		99
36) Indeno(1,2,3-cd)pyrene	25.096	276	9828	0.366	ng		97
37) Benzo(b)fluoranthene	22.445	252	12398	0.493	ng		98
38) Benzo(k)fluoranthene	22.488	252	10500	0.424	ng		96
39) Benzo(a)pyrene	22.968	252	7505	0.362	ng		96
40) Dibenzo(a,h)anthracene	25.117	278	7400	0.349	ng		96
41) Benzo(g,h,i)perylene	25.707	276	8233	0.371	ng		99

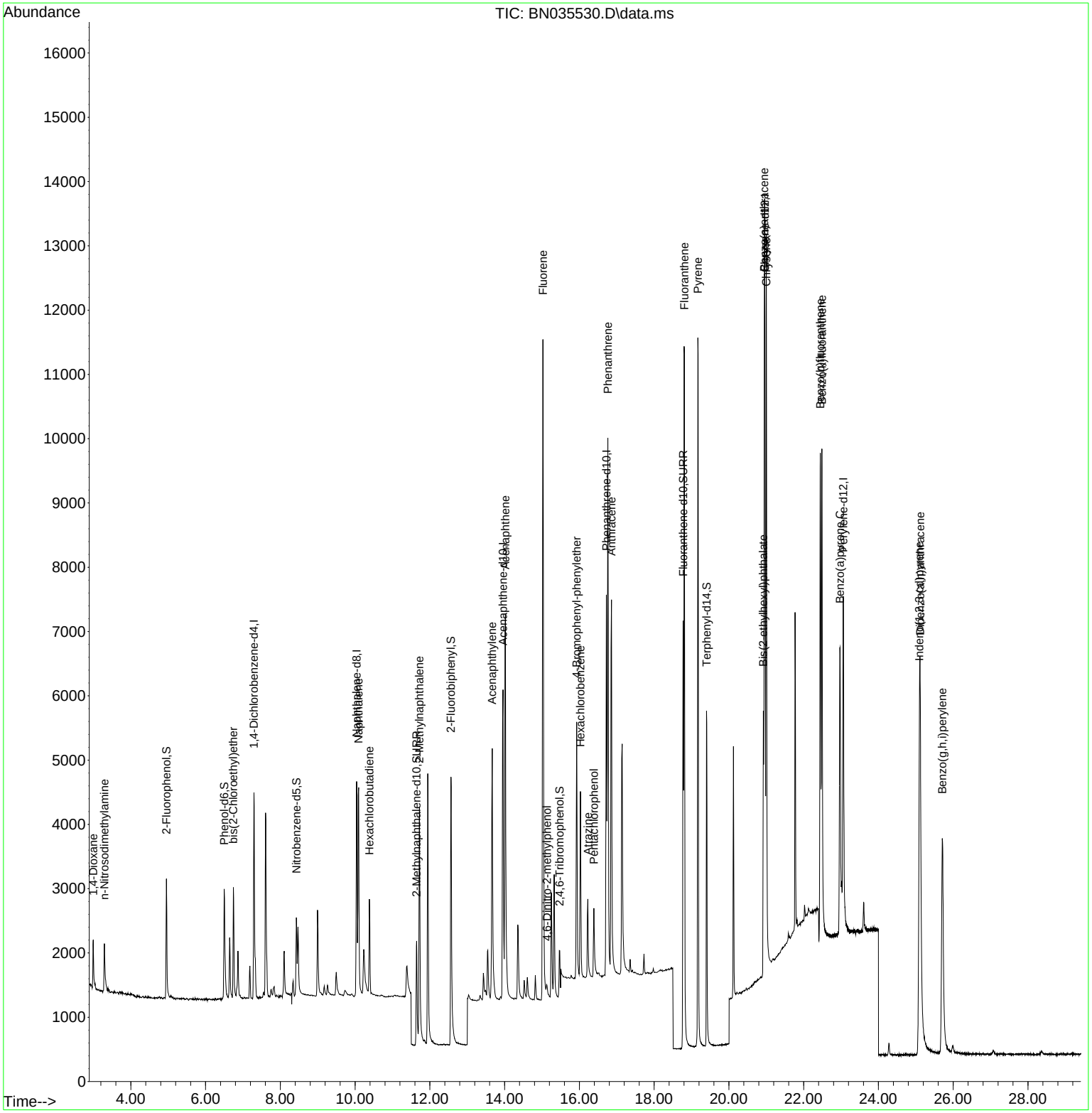
(#) = qualifier out of range (m) = manual integration (+) = signals summed

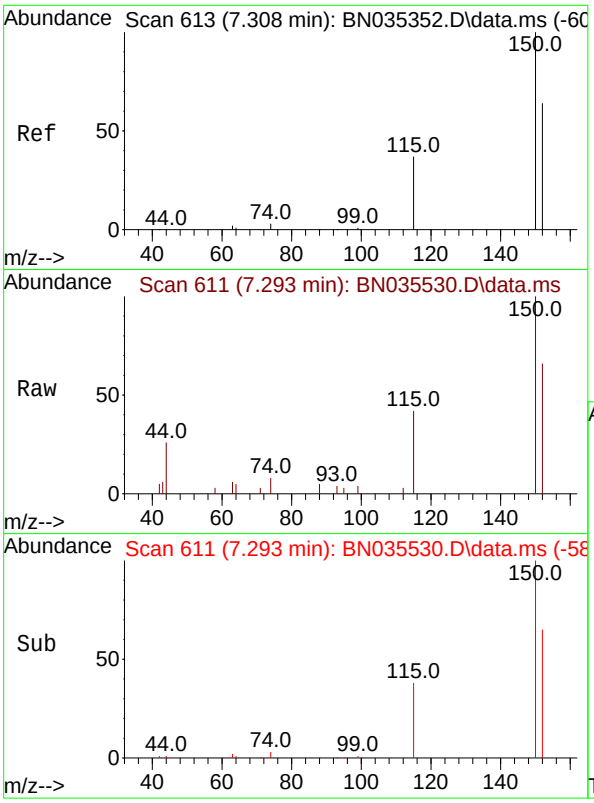
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120924\
Data File : BN035530.D
Acq On : 10 Dec 2024 12:40
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 10 13:45:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



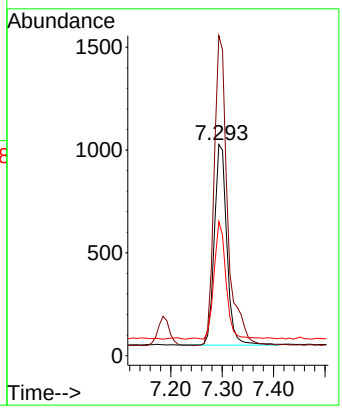


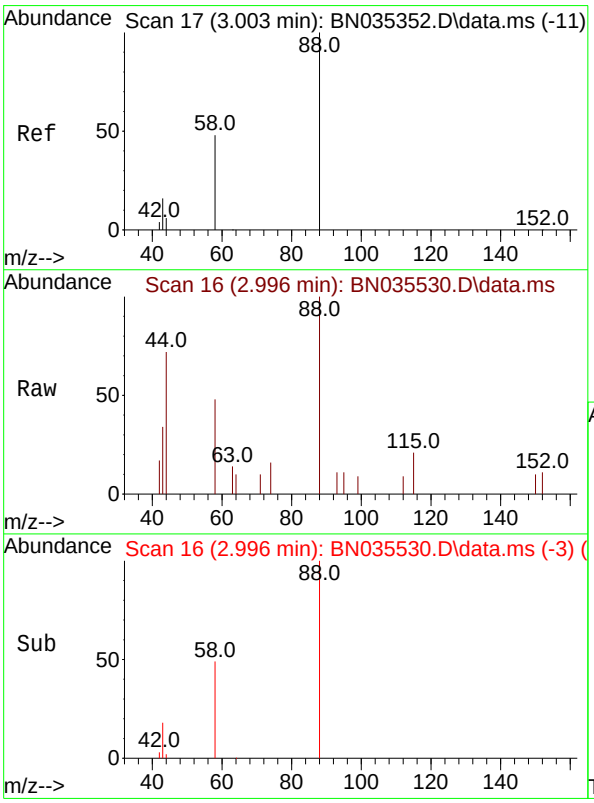
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.293 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1649

Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.0	186.0
115	63.5	49.6	74.4

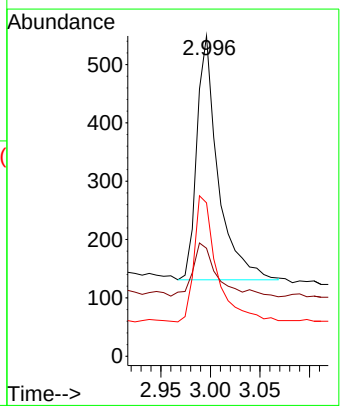


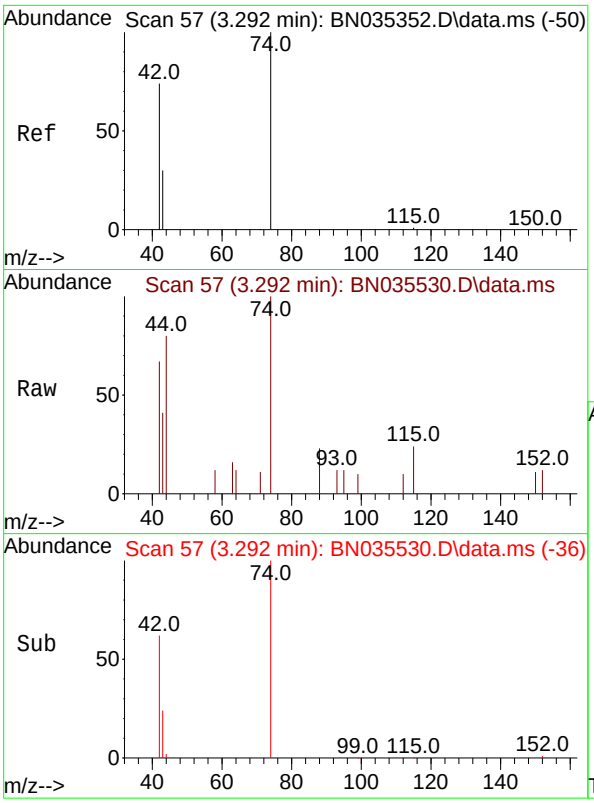


#2
1,4-Dioxane
Concen: 0.395 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 88 Resp: 622

Ion	Ratio	Lower	Upper
88	100		
43	25.7	17.2	25.8
58	55.3	44.5	66.7



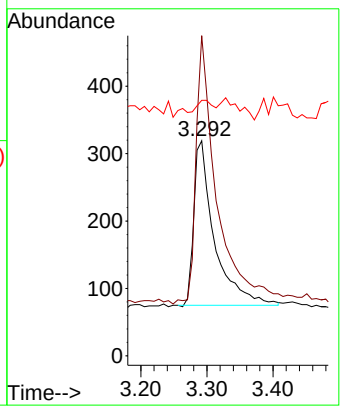


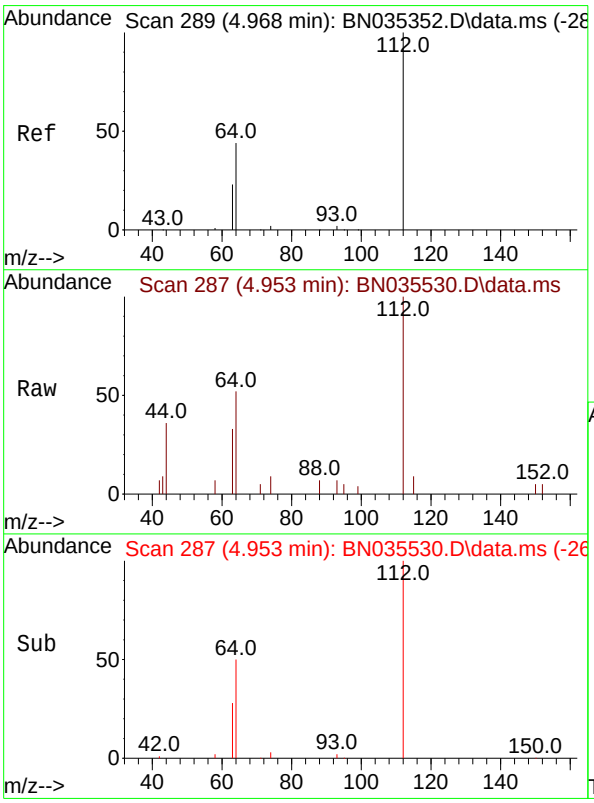
#3
n-Nitrosodimethylamine
Concen: 0.403 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 529

Ion	Ratio	Lower	Upper
42	100		
74	163.7	124.9	187.3
44	5.3	2.2	3.4#

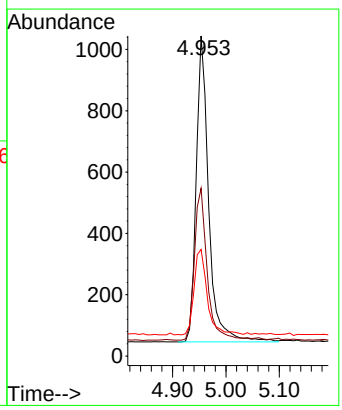


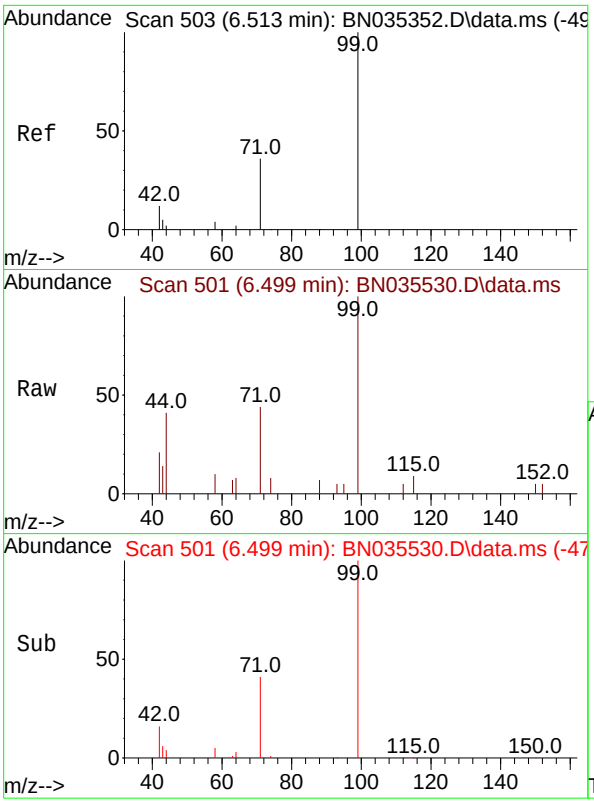


#4
2-Fluorophenol
Concen: 0.394 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:112 Resp: 1627

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	29.6	21.0	31.6



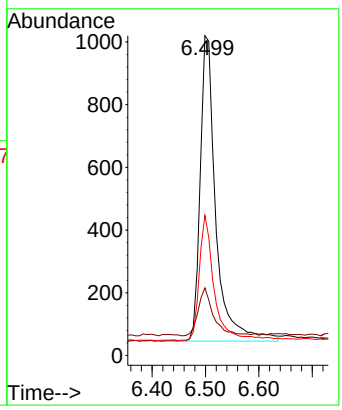


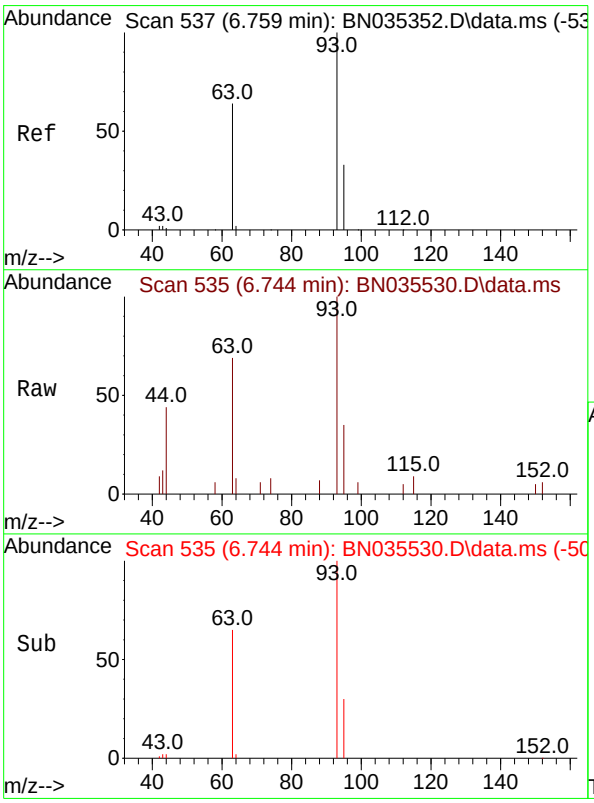
#5
Phenol-d6
Concen: 0.401 ng
RT: 6.499 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1989

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	39.8	29.3	43.9

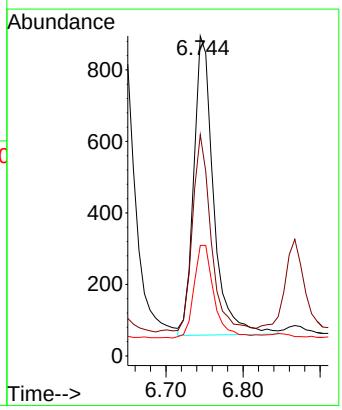


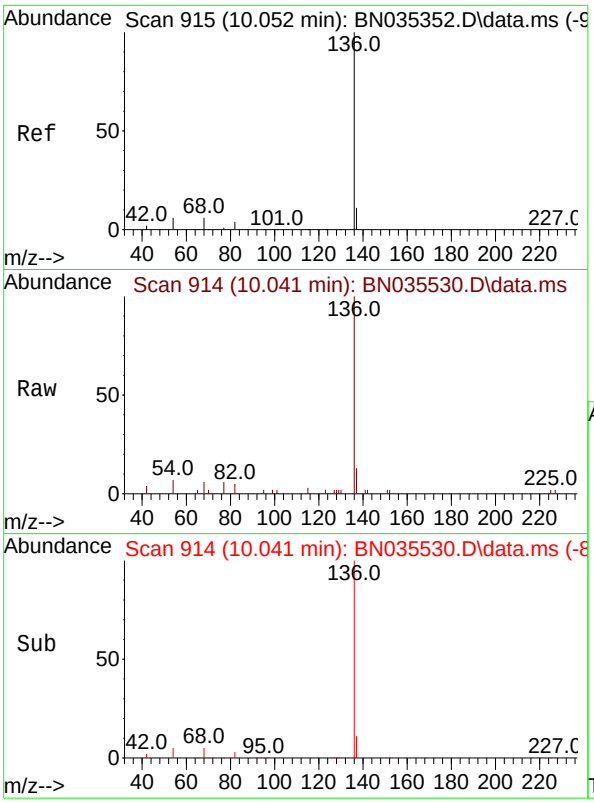


#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng
RT: 6.744 min Scan# 535
Delta R.T. -0.014 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 93 Resp: 1499

Ion	Ratio	Lower	Upper
93	100		
63	62.6	50.4	75.6
95	31.0	25.7	38.5



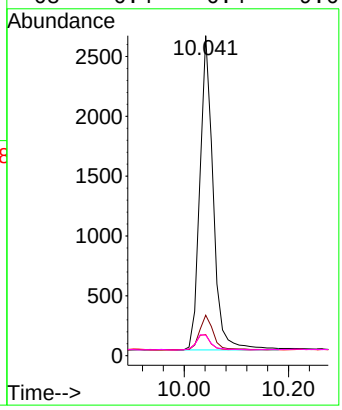


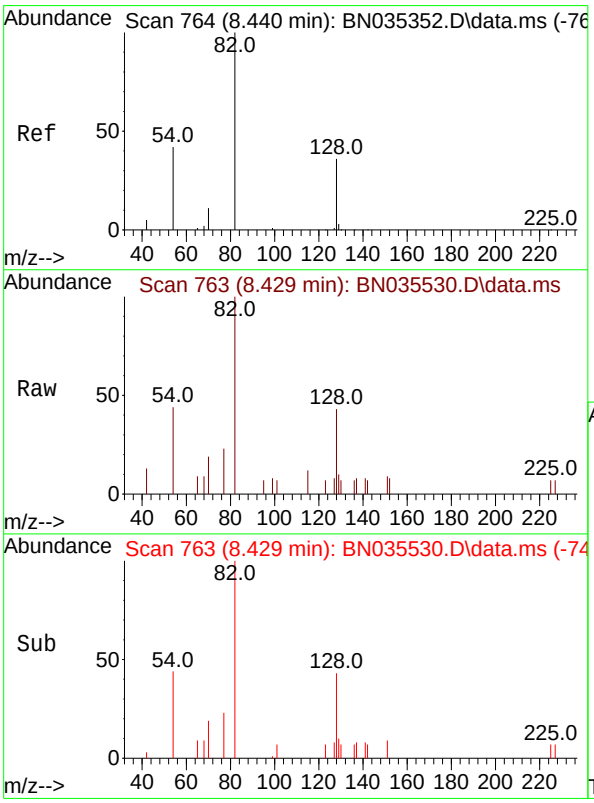
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.041 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 4653

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	6.6	6.1	9.1
68	6.4	6.4	9.6

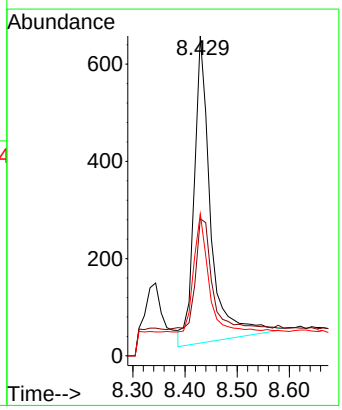


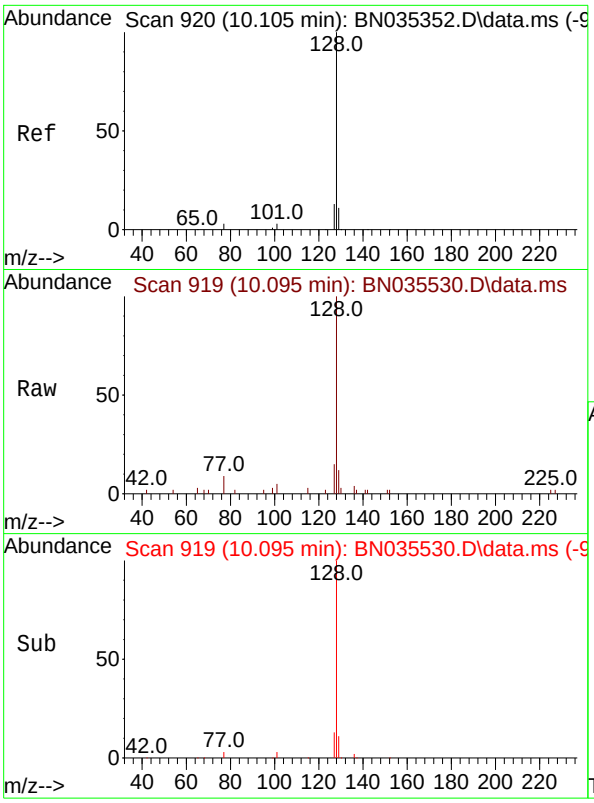


#8
Nitrobenzene-d5
Concen: 0.492 ng
RT: 8.429 min Scan# 763
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion: 82 Resp: 1397

Ion	Ratio	Lower	Upper
82	100		
128	42.9	33.4	50.0
54	44.4	36.7	55.1



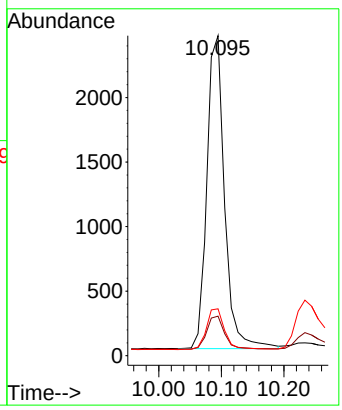


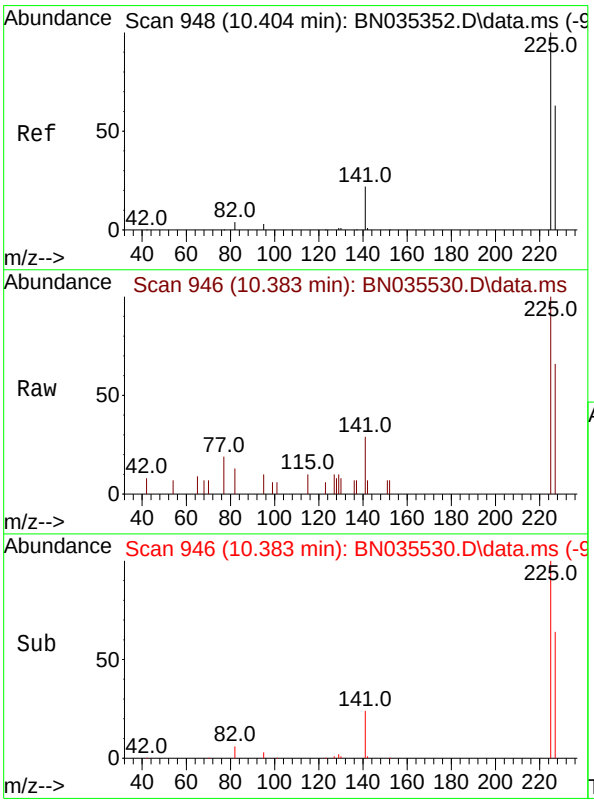
#9
Naphthalene
Concen: 0.387 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 4751

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.6	11.4	17.2

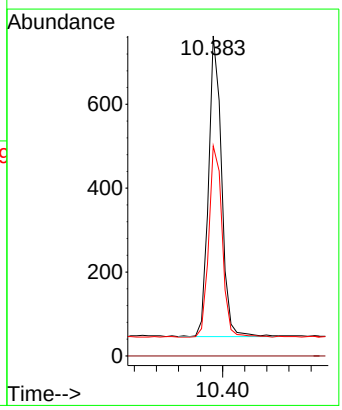


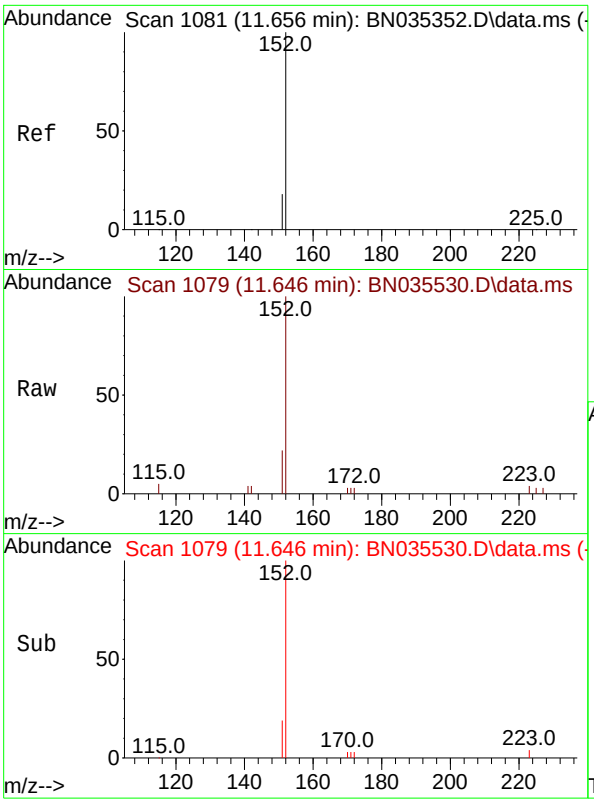


#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.021 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:225 Resp: 1177

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	51.3	76.9



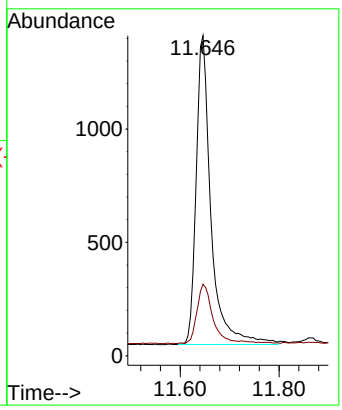


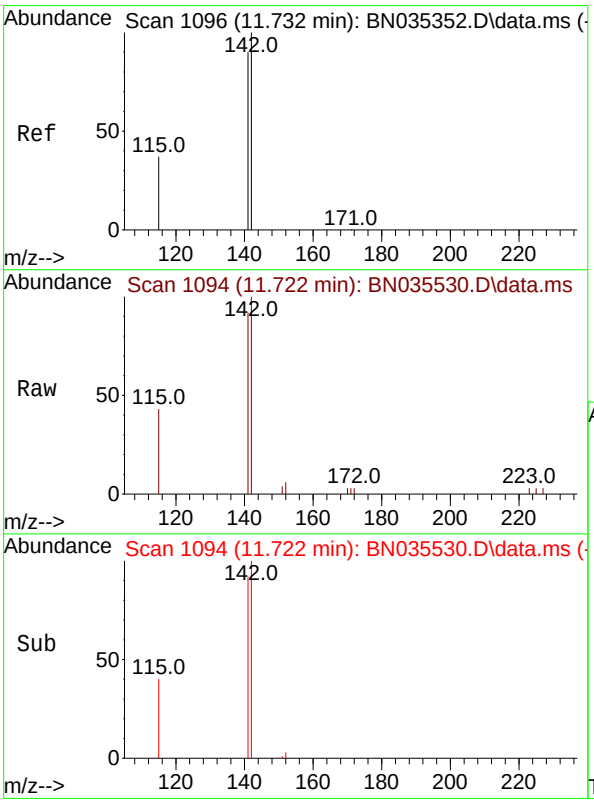
#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 2835

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0

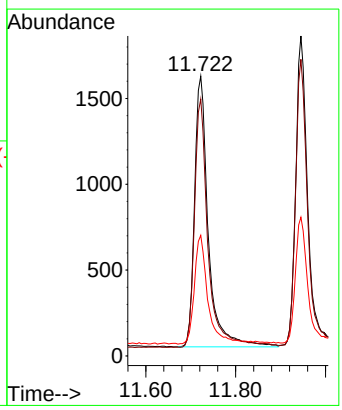


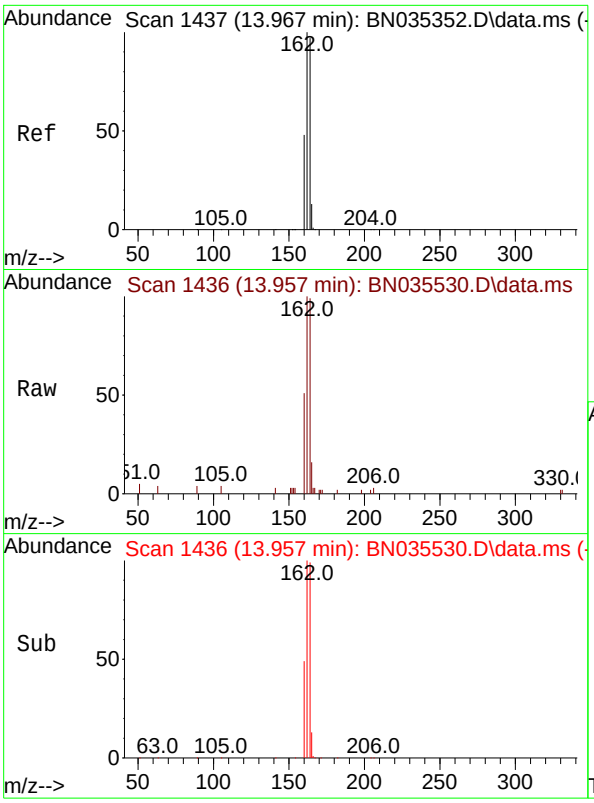


#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 11.722 min Scan# 1094
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:142 Resp: 3358

Ion	Ratio	Lower	Upper
142	100		
141	91.8	72.2	108.4
115	43.1	31.4	47.0



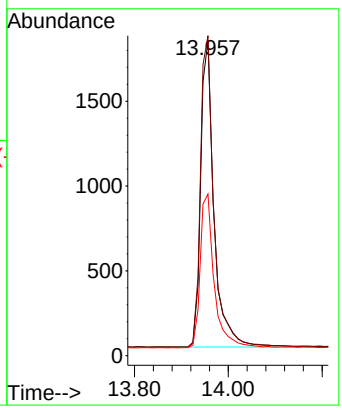


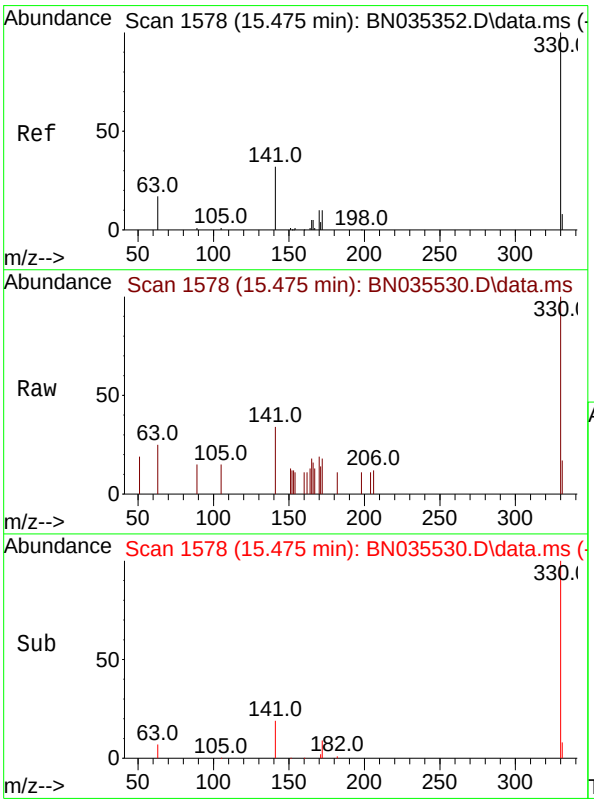
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 3559

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	51.2	40.1	60.1

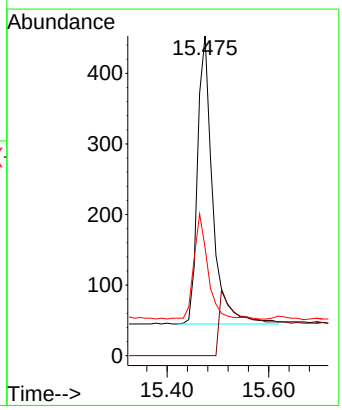


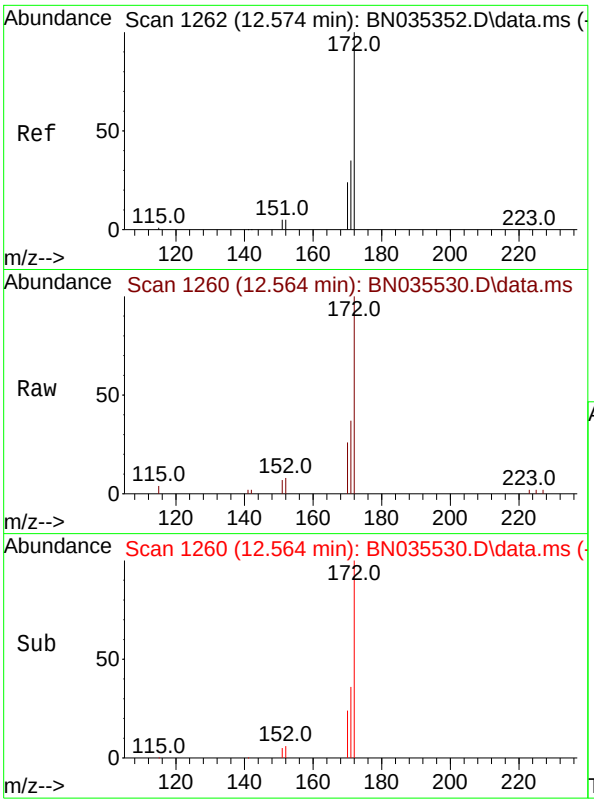


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:330 Resp: 899

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



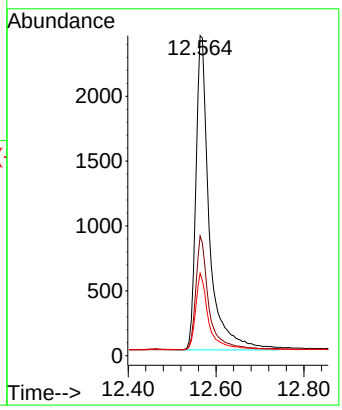


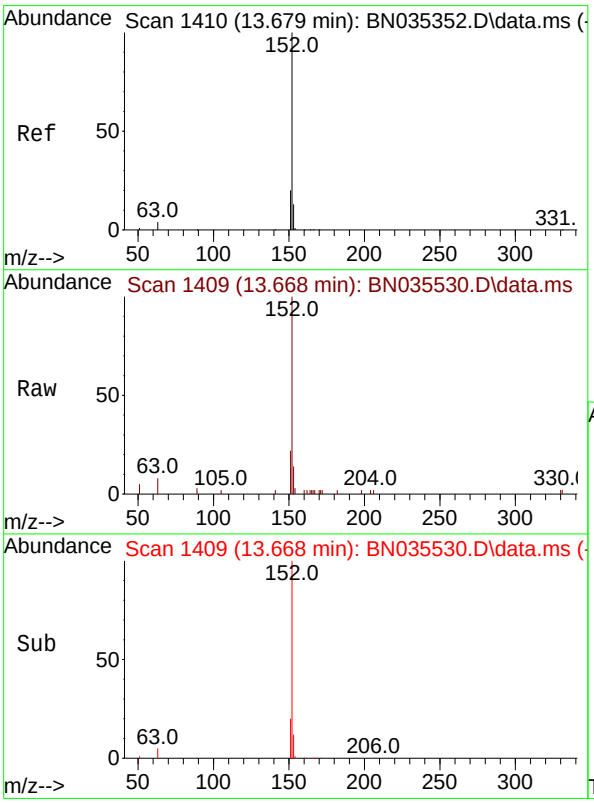
#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.564 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 5182

Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.0	43.4
170	25.7	19.8	29.8

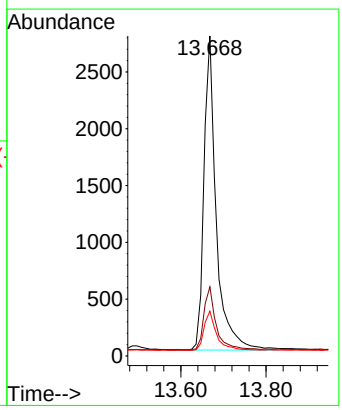


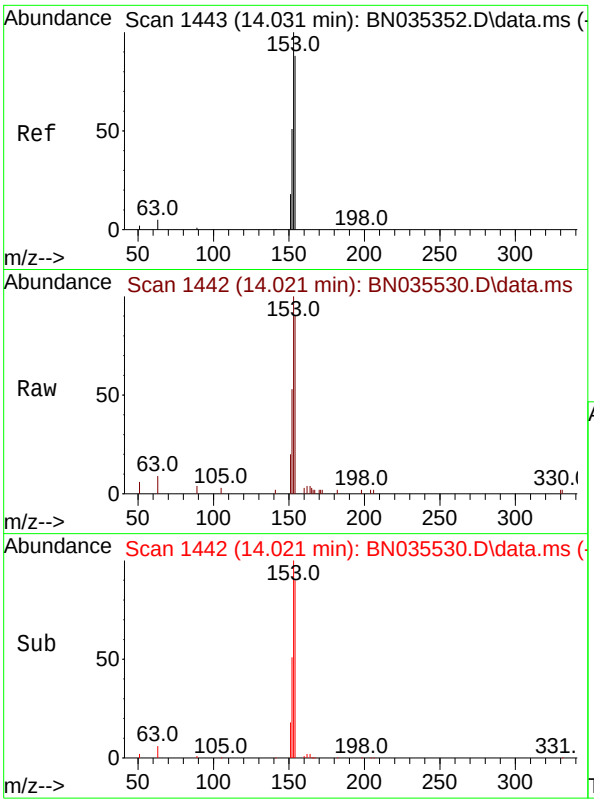


#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:152 Resp: 5536

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	12.7	10.4	15.6



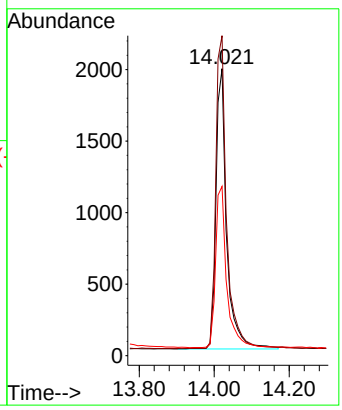


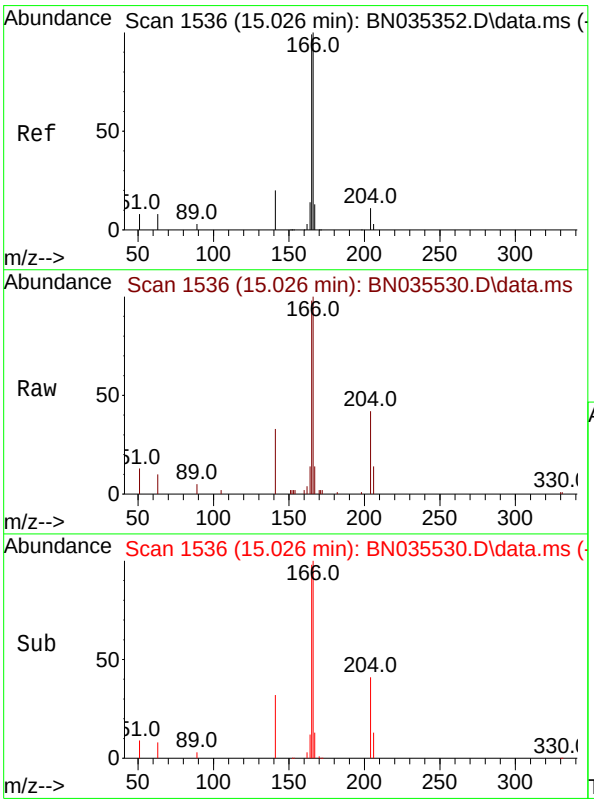
#17
Acenaphthene
Concen: 0.391 ng
RT: 14.021 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 3879

Ion	Ratio	Lower	Upper
154	100		
153	113.4	92.6	139.0
152	59.7	49.0	73.6

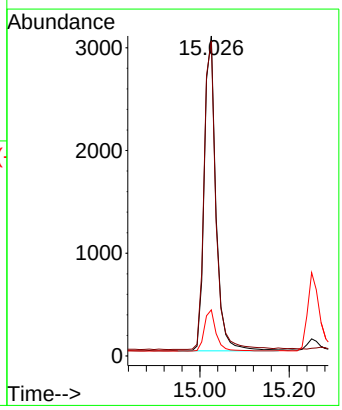


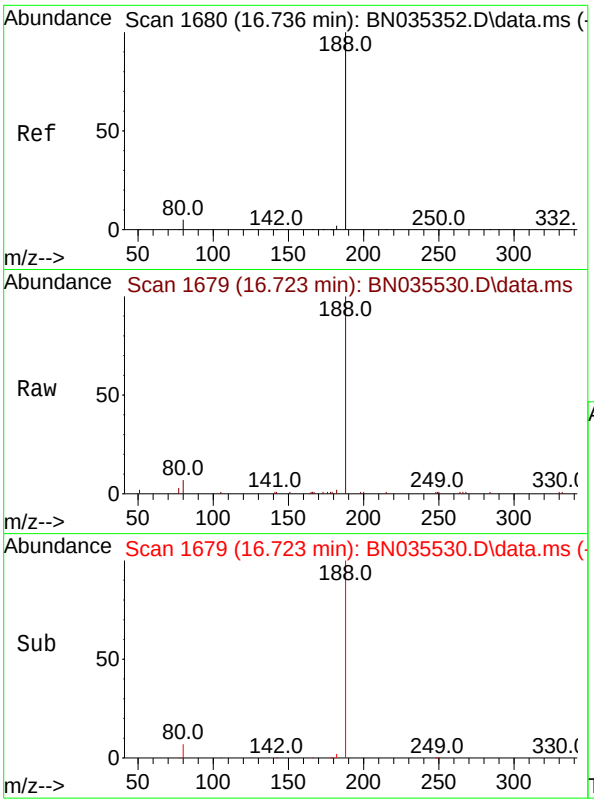


#18
Fluorene
Concen: 0.390 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:166 Resp: 5544

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.2	10.8	16.2



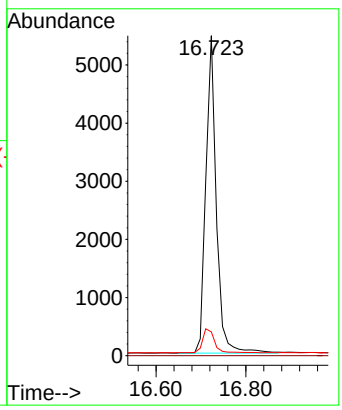


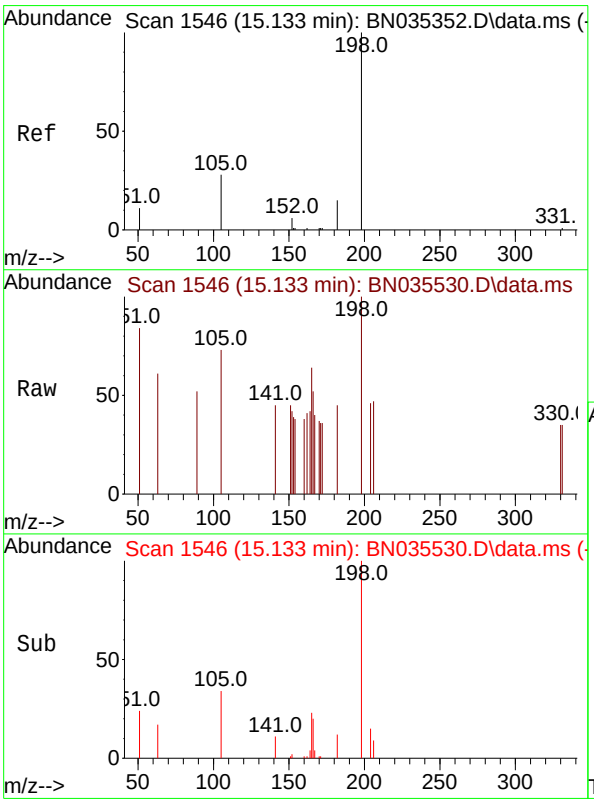
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 8829

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.5	4.6	6.8#

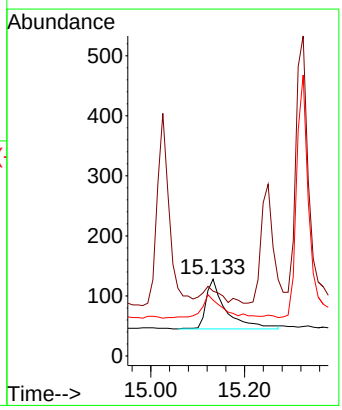


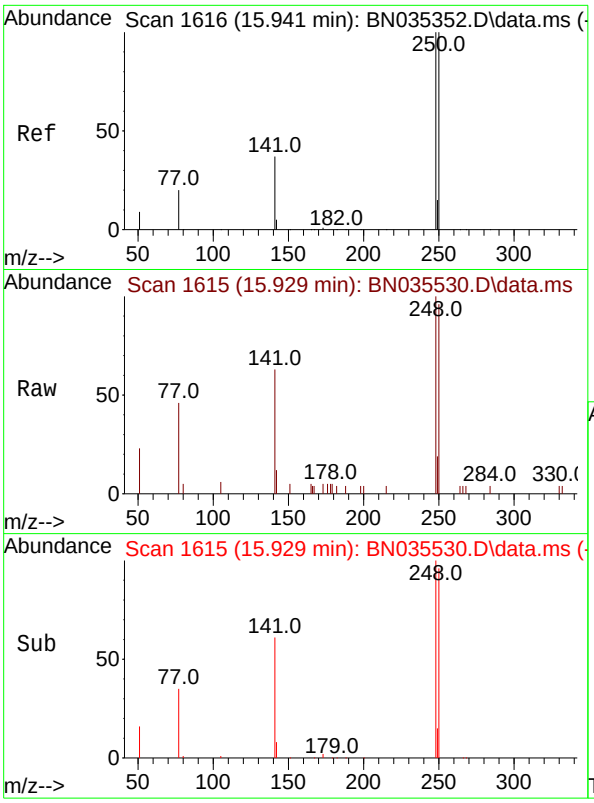


#20
4,6-Dinitro-2-methylphenol
Concen: 0.283 ng
RT: 15.133 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:198 Resp: 246

Ion	Ratio	Lower	Upper
198	100		
51	84.4	46.5	69.7#
105	72.7	45.3	67.9#



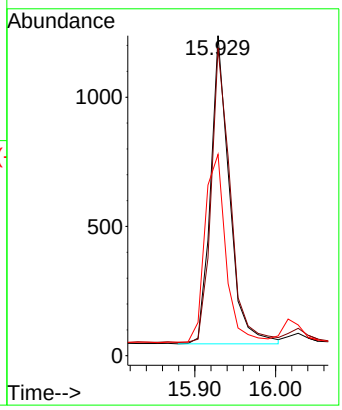


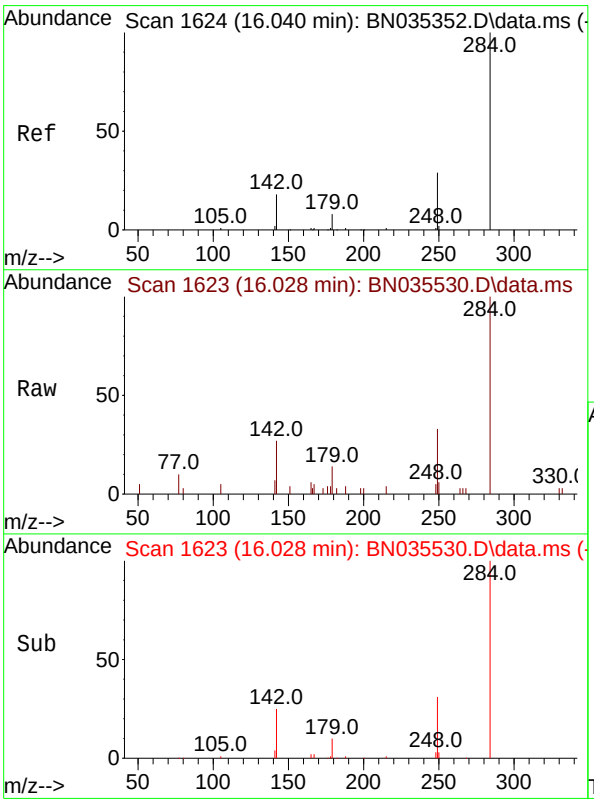
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 1928

Ion	Ratio	Lower	Upper
248	100		
250	96.2	80.6	120.8
141	62.9	31.5	47.3#

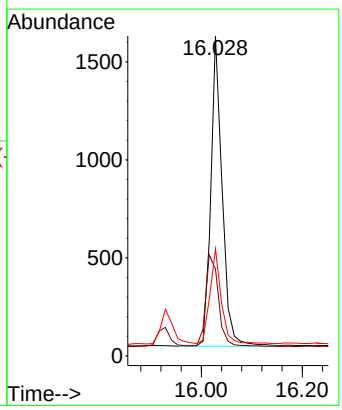


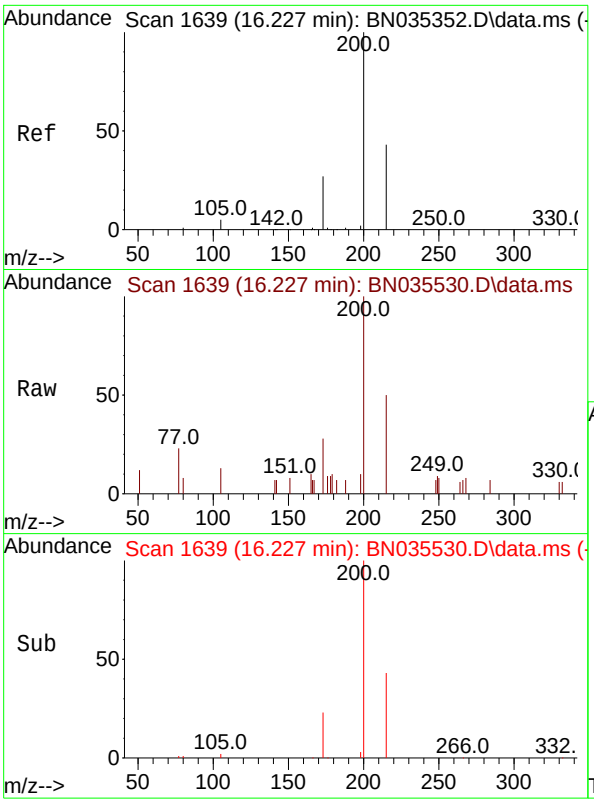


#22
Hexachlorobenzene
Concen: 0.407 ng
RT: 16.028 min Scan# 1623
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:284 Resp: 2468

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.7	40.1
249	30.8	24.6	36.8



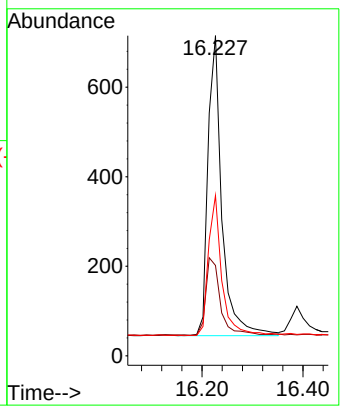


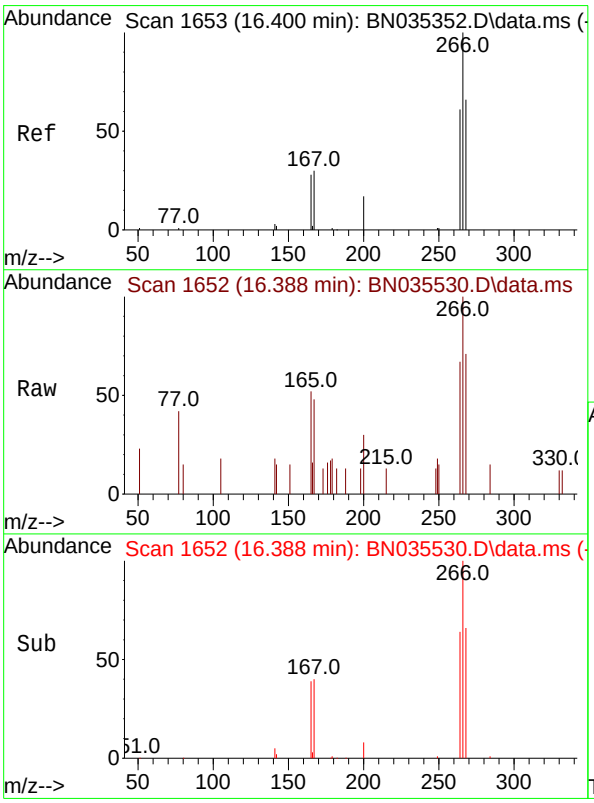
#23
Atrazine
Concen: 0.350 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1287

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	50.1	36.9	55.3

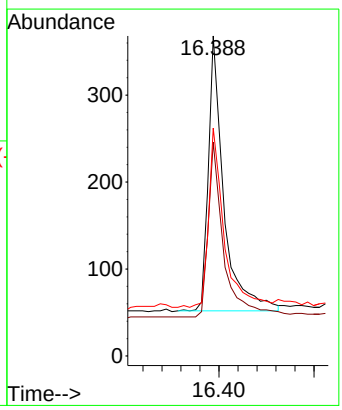


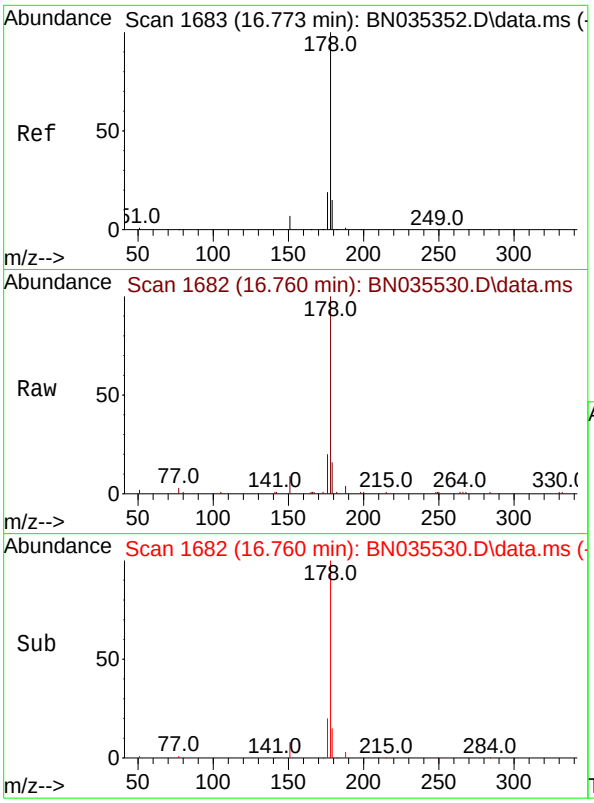


#24
Pentachlorophenol
Concen: 0.270 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:266 Resp: 713

Ion	Ratio	Lower	Upper
266	100		
264	64.1	42.3	63.5#
268	65.5	43.3	64.9#



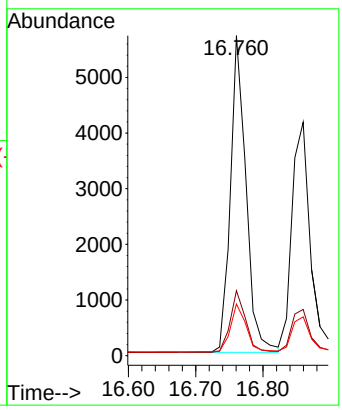


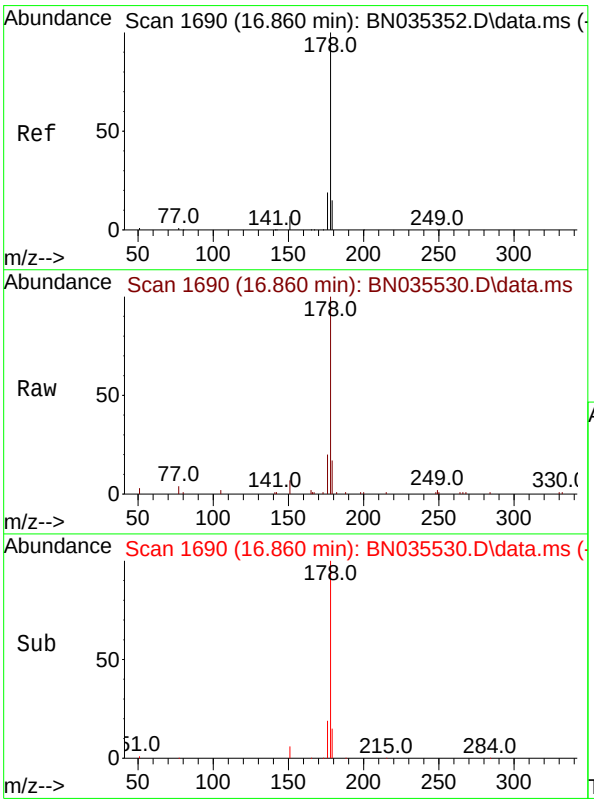
#25
Phenanthrene
Concen: 0.379 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9191

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

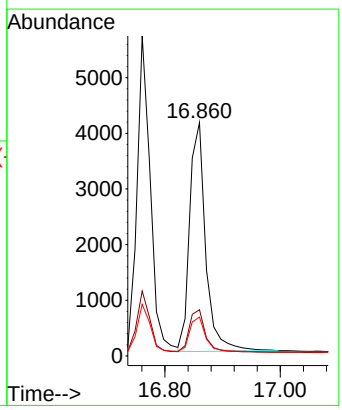


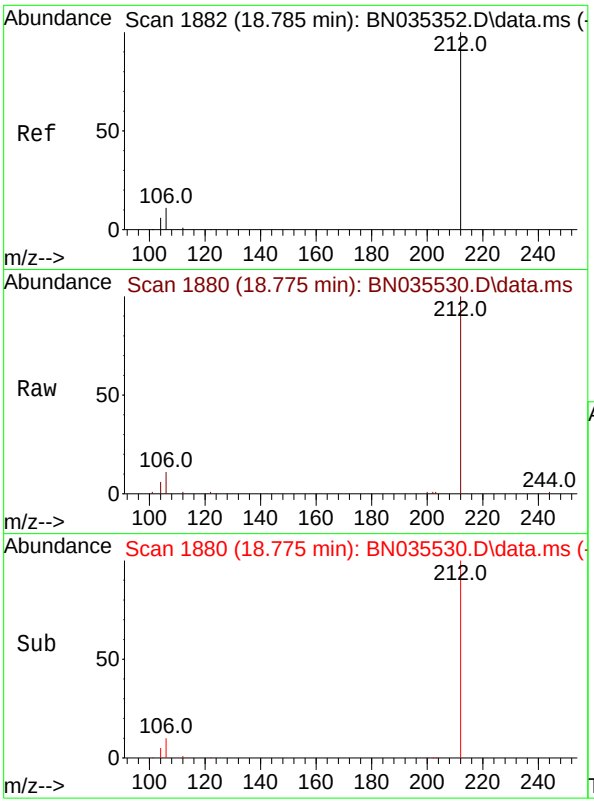


#26
Anthracene
Concen: 0.363 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:178 Resp: 7969

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	15.4	12.6	18.8



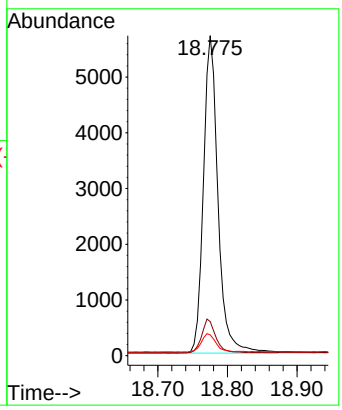


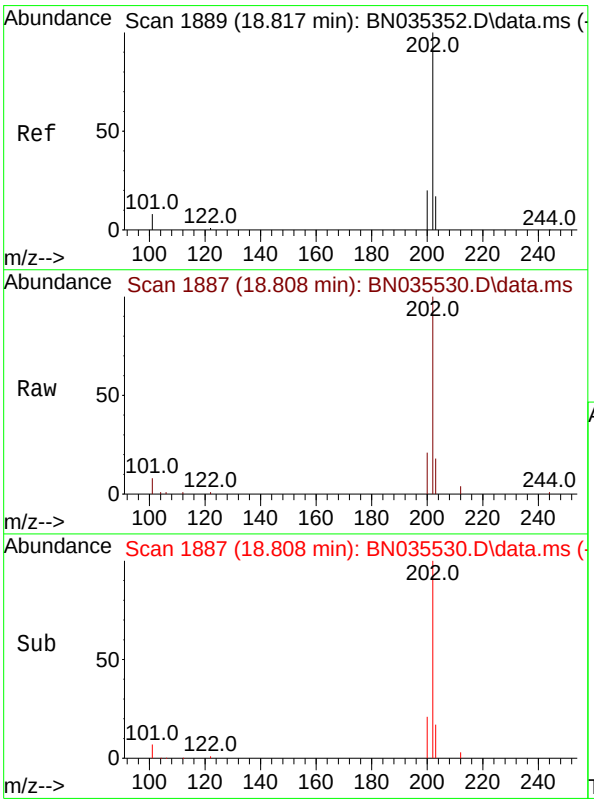
#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 18.775 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 8270

Ion	Ratio	Lower	Upper
212	100		
106	10.2	9.2	13.8
104	5.7	5.3	7.9

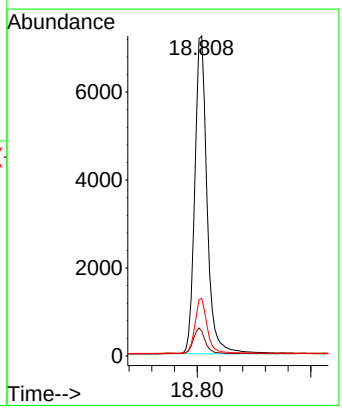


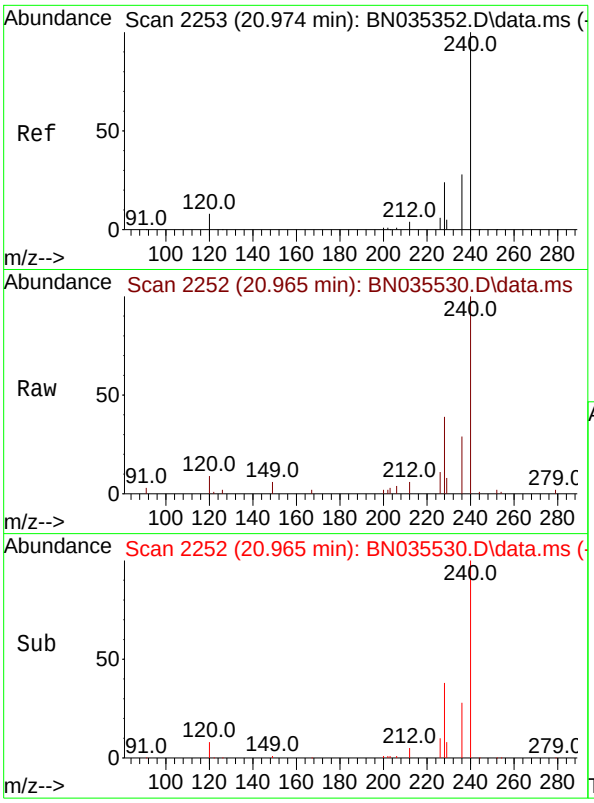


#28
Fluoranthene
Concen: 0.332 ng
RT: 18.808 min Scan# 1887
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:202 Resp: 10852

Ion	Ratio	Lower	Upper
202	100		
101	8.0	7.4	11.0
203	16.9	13.7	20.5



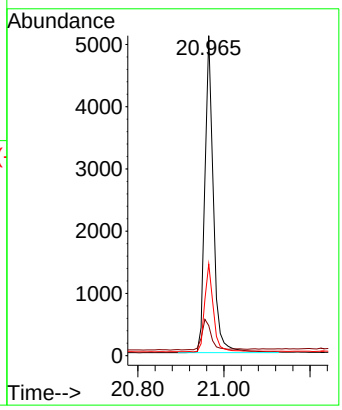


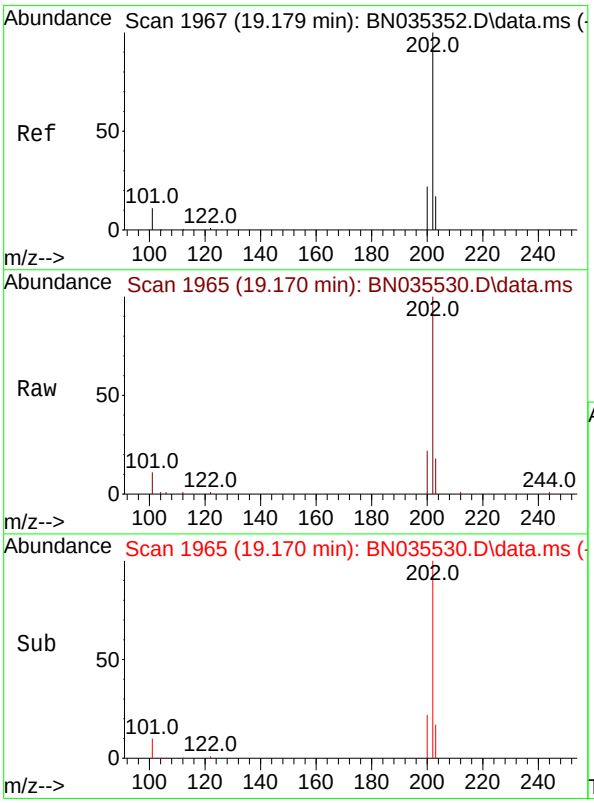
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.965 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7037

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.9	11.9
236	28.7	22.9	34.3

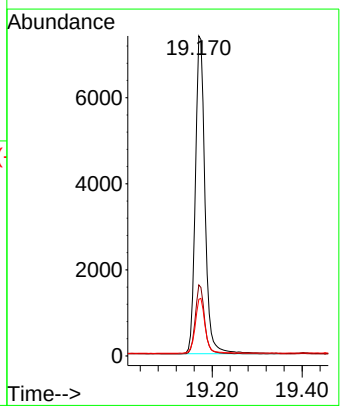


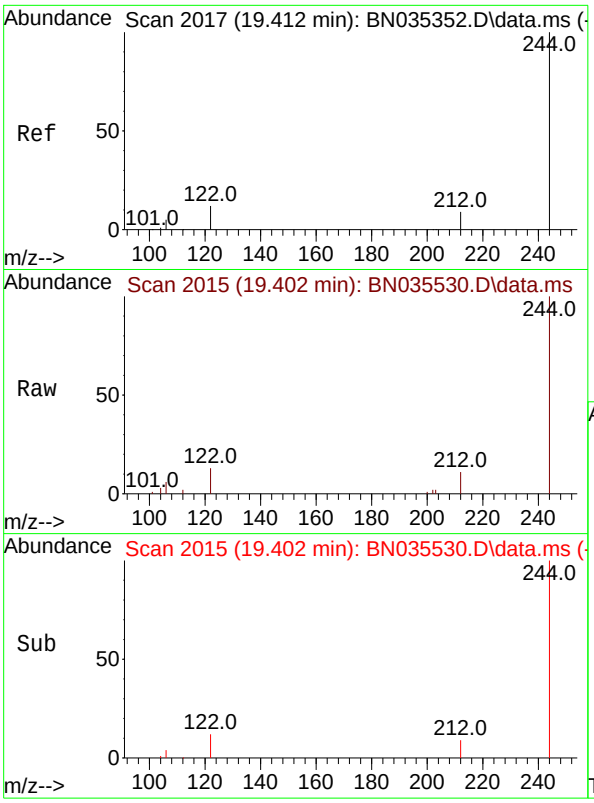


#30
Pyrene
Concen: 0.425 ng
RT: 19.170 min Scan# 1965
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:202 Resp: 11027

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



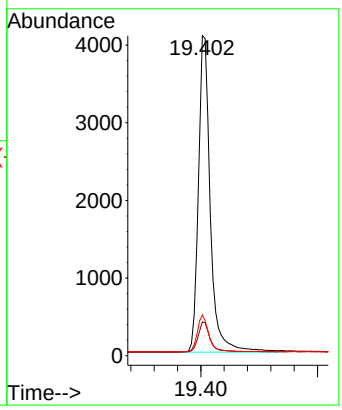


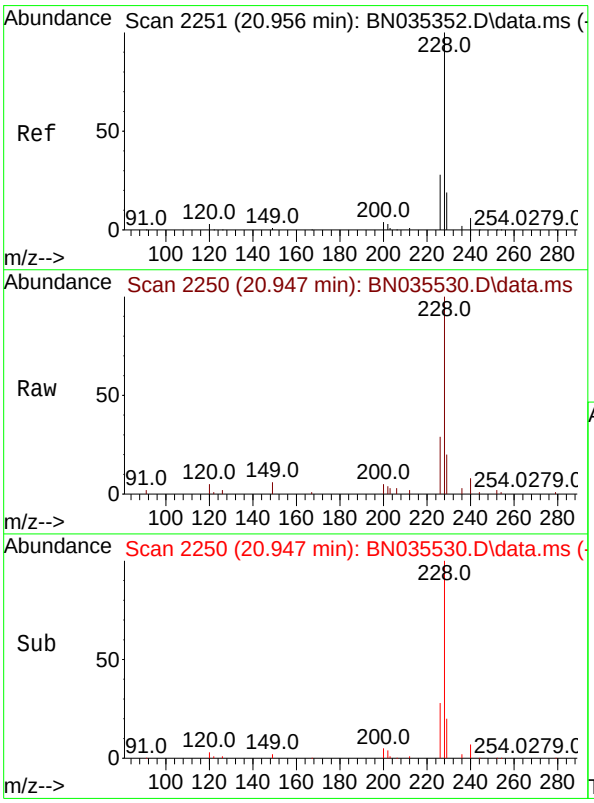
#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5792

Ion	Ratio	Lower	Upper
244	100		
212	10.6	8.1	12.1
122	12.8	10.3	15.5

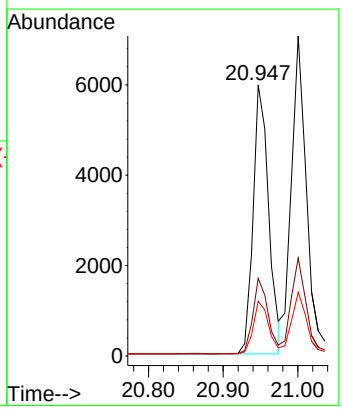


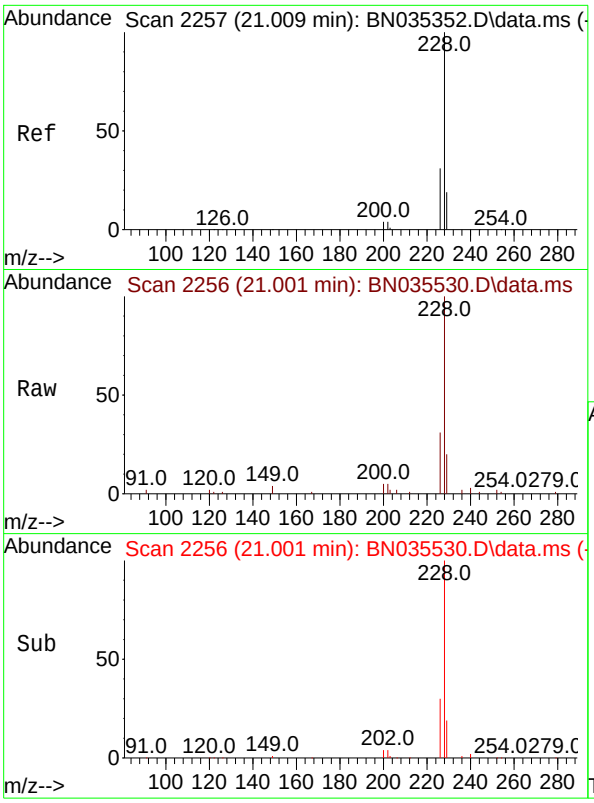


#32
Benzo(a)anthracene
Concen: 0.350 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:228 Resp: 8623

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.5	33.7
229	20.2	15.8	23.8



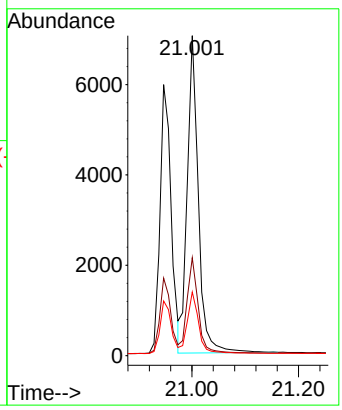


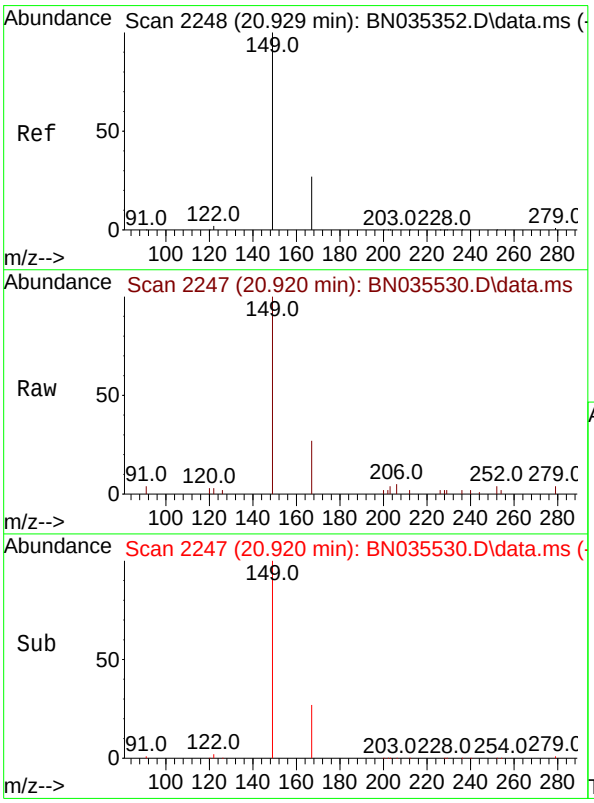
#33
Chrysene
Concen: 0.400 ng
RT: 21.001 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 10141

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.9	15.9	23.9

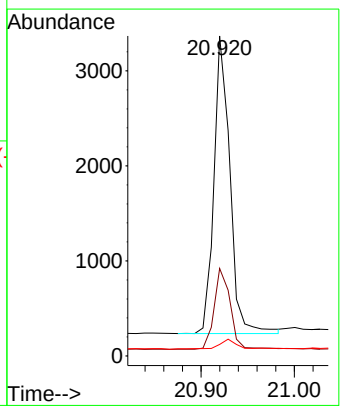


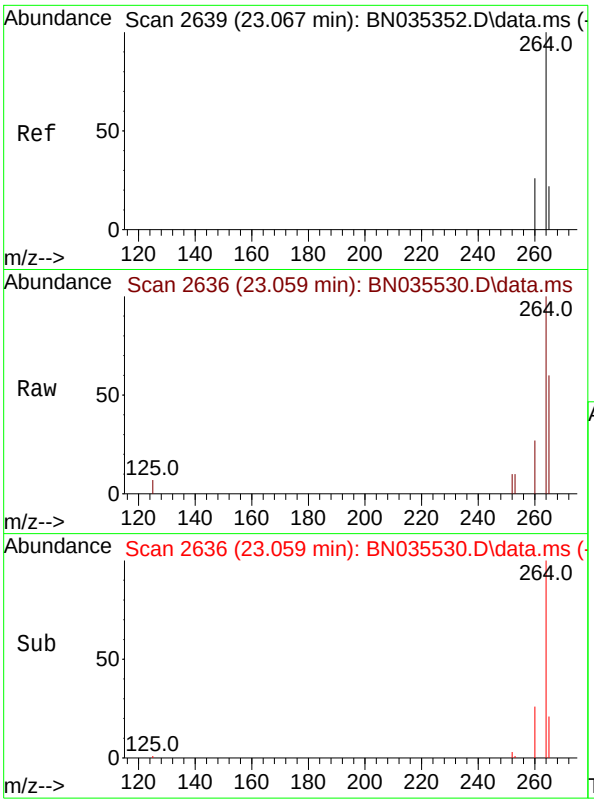


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.382 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:149 Resp: 3712

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.8	2.7	4.1



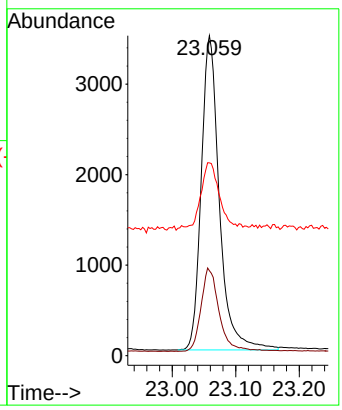


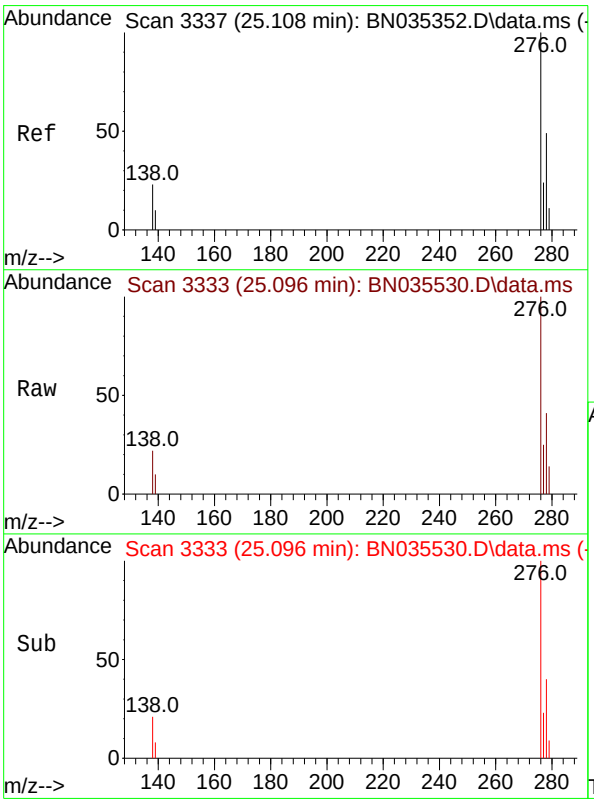
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.059 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 6876

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	60.3	40.2	60.4

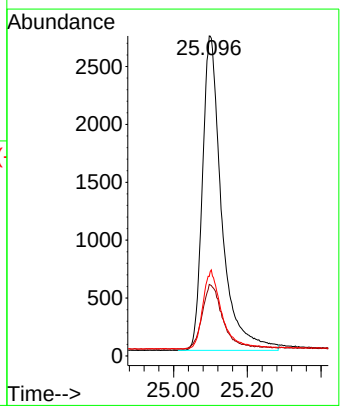


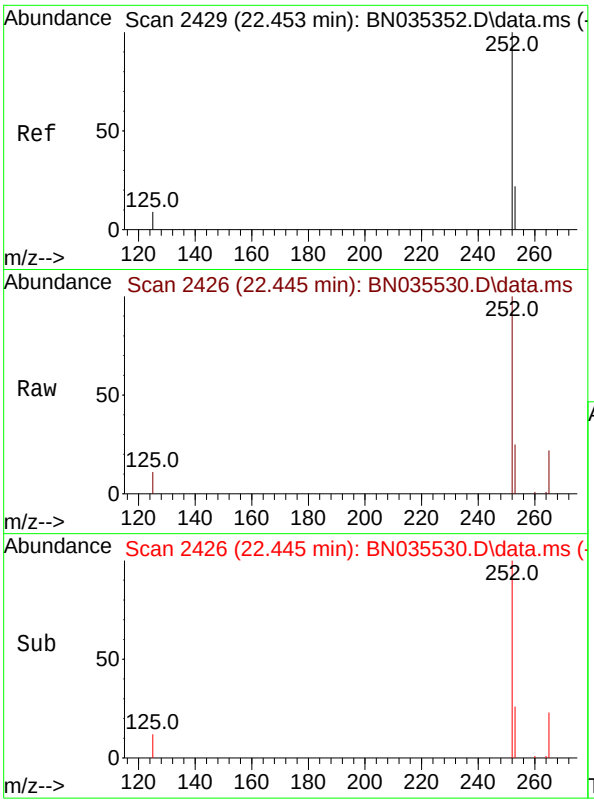


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.366 ng
RT: 25.096 min Scan# 3333
Delta R.T. -0.012 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:276 Resp: 9828

Ion	Ratio	Lower	Upper
276	100		
138	21.8	19.4	29.0
277	24.4	19.8	29.6



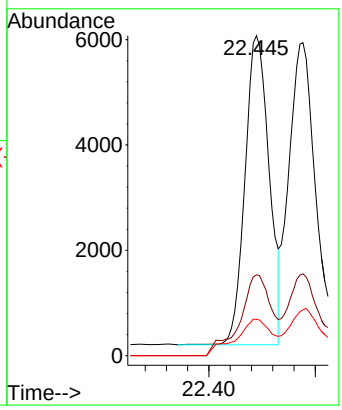


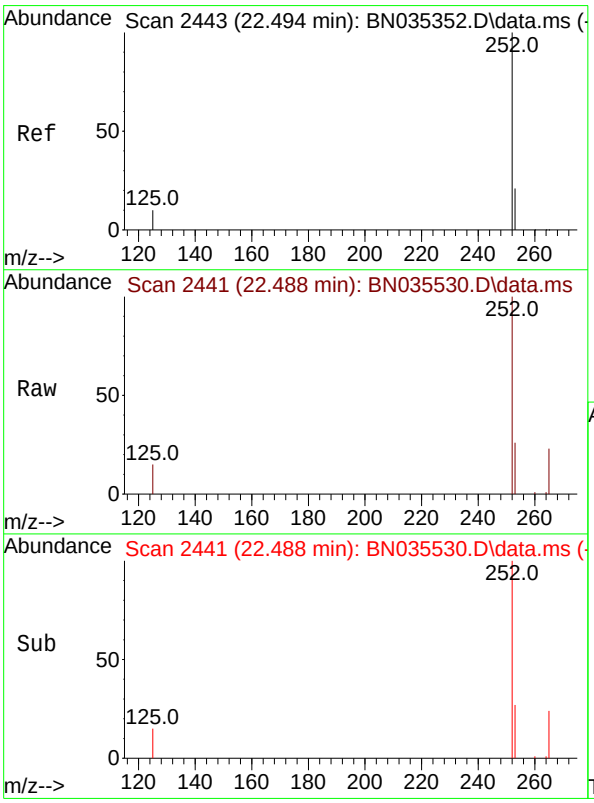
#37
Benzo(b)fluoranthene
Concen: 0.493 ng
RT: 22.445 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 12398

Ion	Ratio	Lower	Upper
252	100		
253	25.3	19.6	29.4
125	11.4	9.6	14.4

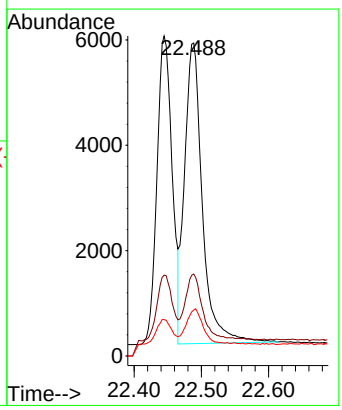


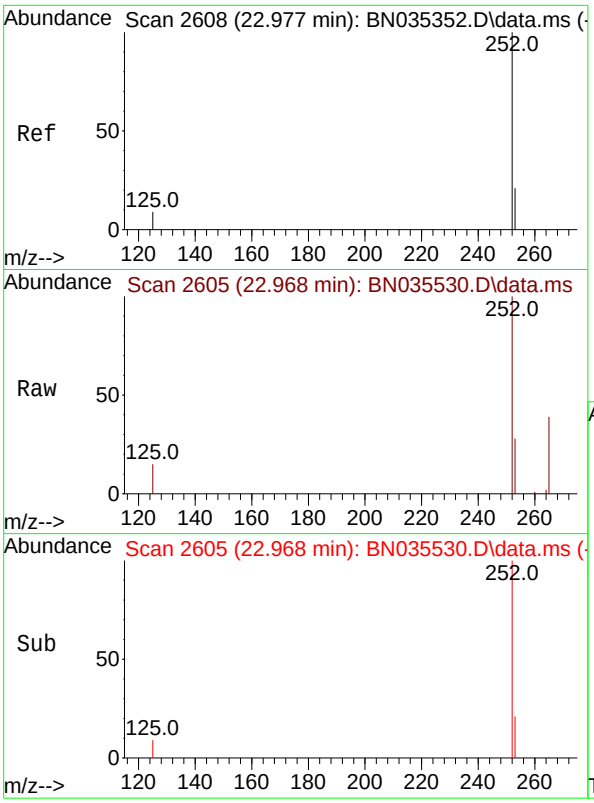


#38
Benzo(k)fluoranthene
Concen: 0.424 ng
RT: 22.488 min Scan# 2441
Delta R.T. -0.006 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:252 Resp: 10500

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.5	29.3
125	14.7	10.2	15.4



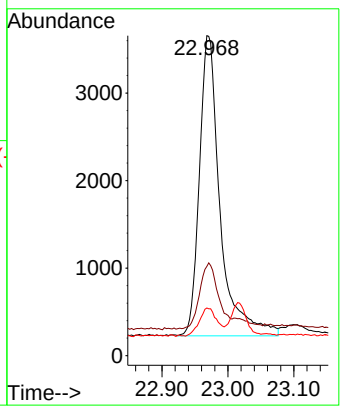


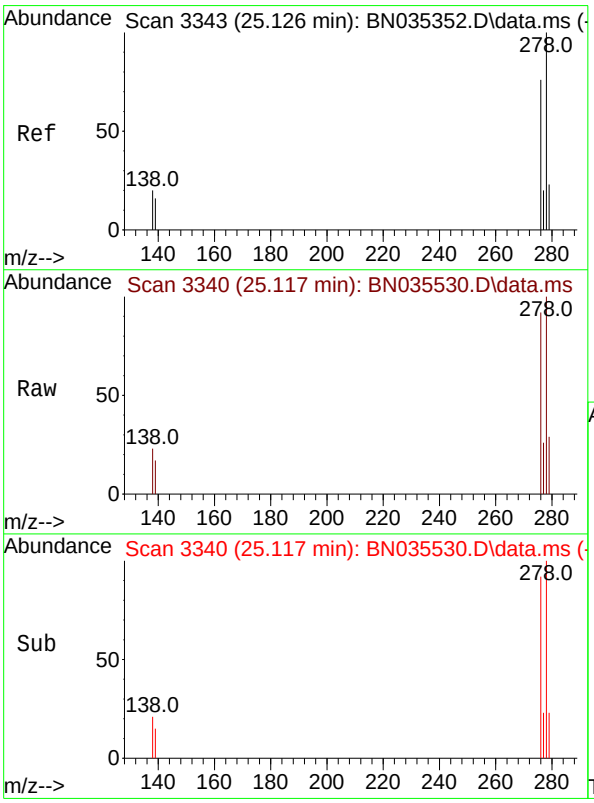
#39
Benzo(a)pyrene
Concen: 0.362 ng
RT: 22.968 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 7505

Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	14.9	10.9	16.3

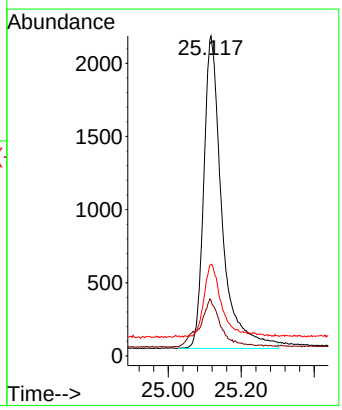


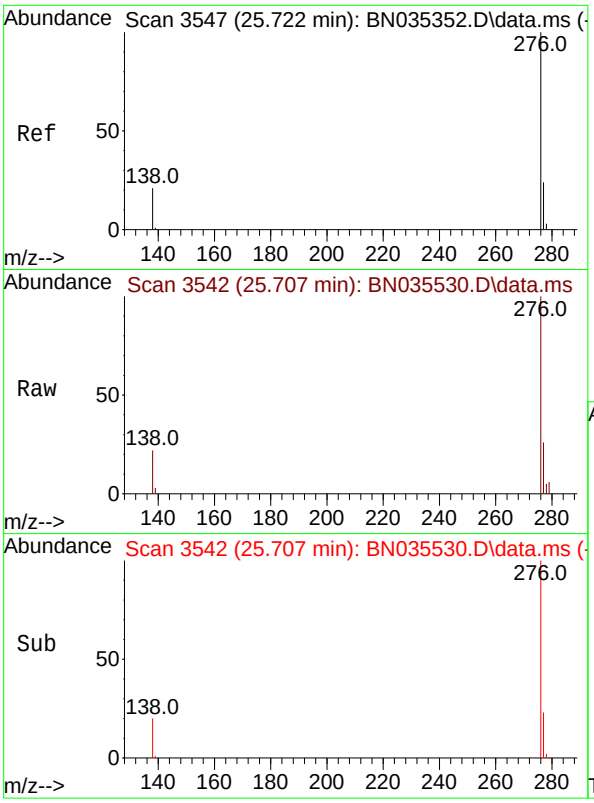


#40
Dibenzo(a,h)anthracene
Concen: 0.349 ng
RT: 25.117 min Scan# 3340
Delta R.T. -0.009 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Tgt Ion:278 Resp: 7400

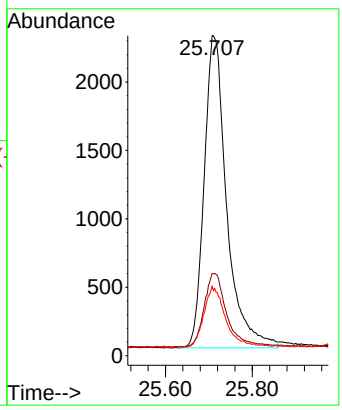
Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.2	21.4
279	28.5	20.5	30.7





#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.707 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN035530.D
Acq: 10 Dec 2024 12:40

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8233

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	21.7	17.8	26.8