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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:	P5374	**OrderDate:**	12/20/2024 3:07:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5374-03	**BP-VPB-190A-GW-718 -720**	**Water**			**12/18/24**			**12/20/24**
			SVOC-SIMGroup1	8270-Modified		12/23/24	12/26/24	

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Hit Summary Sheet
SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**BP-VPB-190A-GW-718-720**							
P5374-03	BP-VPB-190A-GW-718-' WATER	1,4-Dioxane	0.520		0.07	0.21	0.21	ug/L
		Total Svoc :	**0.52**					
		Total Concentration:	**0.52**					

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: **P5374**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P5374-03	BP-VPB-190A-GW-718-720	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.22	55		30	150
		Nitrobenzene-d5	0.4	0.24	60		55	111
		2-Fluorobiphenyl	0.4	0.21	53		53	106
		Terphenyl-d14	0.4	0.29	73		58	132
P5376-08MS	RW10-MW01S-20241218MS	2-Methylnaphthalene-d10	0.4	0.43	107		30	150
		Fluoranthene-d10	0.4	0.43	106		30	150
		Nitrobenzene-d5	0.4	0.42	106		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
P5376-09MSD	RW10-MW01S-20241218MSD	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
PB165828BL	PB165828BL	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.42	105		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.48	120		58	132
PB165828BS	PB165828BS	2-Methylnaphthalene-d10	0.4	0.47	116		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.49	122	*	55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.48	119		58	132

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P5376-08MS		**Client Sample ID: RW10-MW01S-20241218MS**						**DataFile: BN035821.D**			
1,4-Dioxane	0.4	0.10	0.31	ug/L	53	*			70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: P5376-09MSD	**Client Sample ID: RW10-MW01S-20241218MSD**							**DataFile: BN035822.D**			
1,4-Dioxane	0.41	0.10	0.31	ug/L	51	*	4		70	130	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5374

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035852.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165828BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165828BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374

Lab File ID: BN035812.D Lab Sample ID: PB165828BL

Instrument ID: BNA_N Date Extracted: 12/23/2024

Matrix: (soil/water) Water Date Analyzed: 12/24/2024

Level: (low/med) LOW Time Analyzed: 09:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BP-VPB-190A-GW-718-720	P5374-03	BN035850.D	12/26/2024
PB165828BS	PB165828BS	BN035852.D	12/26/2024
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024

COMMENTS:

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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH   Contract: TETR06
Lab Code: CHEM   SAS No.: P5374   SDG NO.: P5374
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	70.8
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.: P5374   SDG NO.: P5374

Lab File ID: BN035810.D   DFTPP Injection Date: 12/24/2024

Instrument ID: BNA_N   DFTPP Injection Time: 07:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	39.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	82.4
443	15.0 - 24.0% of mass 442	15.2 (18.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035811.D	12/24/2024	08:59
PB165828BL	PB165828BL	BN035812.D	12/24/2024	09:35
RW10-MW01S-20241218MS	P5376-08MS	BN035821.D	12/24/2024	14:55
RW10-MW01S-20241218MSD	P5376-09MSD	BN035822.D	12/24/2024	15:31
SSTDCCC0.4EC	SSTDCCC0.4	BN035828.D	12/24/2024	19:05

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5B
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH   Contract: TETR06

Lab Code: CHEM   SAS No.: P5374   SDG NO.: P5374

Lab File ID: BN035844.D   DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_N   DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	32.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40
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	27.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	68.6
443	15.0 - 24.0% of mass 442	14.1 (20.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035845.D	12/26/2024	09:58
BP-VPB-190A-GW-718-720	P5374-03	BN035850.D	12/26/2024	13:07
PB165828BS	PB165828BS	BN035852.D	12/26/2024	14:19
SSTDCCC0.4EC	SSTDCCC0.4	BN035861.D	12/26/2024	19:41

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG NO.: P5374

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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	3972	7.264	9483	10.00	5387	13.92
	UPPER LIMIT	7944	7.764	18966	10.498	10774	14.424
	LOWER LIMIT	1986	6.764	4741.5	9.498	2693.5	13.424
	EPA SAMPLE NO.						
01	RW10-MW01S-20241218MS	3131	7.26	7403	10.00	4434	13.91
02	RW10-MW01S-20241218MSD	3187	7.26	7953	10.00	4887	13.91
03	PB165828BL	3197	7.26	6952	10.02	4346	13.94

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.: P5374 SAS No.: P5374 SDG NO.: P5374

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/24/2024

Lab File ID: BN035811.D Time Analyzed: 08:59

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	10855	16.698	8569	20.947	8879	23.029
	UPPER LIMIT	21710	17.198	17138	21.447	17758	23.529
	LOWER LIMIT	5427.5	16.198	4284.5	20.447	4439.5	22.529
	EPA SAMPLE NO.						
01	RW10-MW01S-20241218MS	9040	16.69	8798	20.95	9479	23.03
02	RW10-MW01S-20241218MSD	10068	16.69	9501	20.94	9990	23.02
03	PB165828BL	8099	16.71	6756	20.96	6747	23.04

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.: P5374 SAS No.: P5374 SDG NO.: P5374

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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	3755	7.257	9322	10.00	5387	13.91
	UPPER LIMIT	7510	7.757	18644	10.499	10774	14.414
	LOWER LIMIT	1877.5	6.757	4661	9.499	2693.5	13.414
	EPA SAMPLE NO.						
01	BP-VPB-190A-GW-718-720	3717	7.26	9841	10.00	7032	13.91
02	PB165828BS	4431	7.26	10905	10.00	6427	13.91

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.: P5374 SAS No.: P5374 SDG NO.: P5374

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/26/2024

Lab File ID: BN035845.D Time Analyzed: 09:58

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	11262	16.686	9932	20.938	10817	23.021
	UPPER LIMIT	22524	17.186	19864	21.438	21634	23.521
	LOWER LIMIT	5631	16.186	4966	20.438	5408.5	22.521
	EPA SAMPLE NO.						
01	BP-VPB-190A-GW-718-720	14733	16.69	12545	20.94	12258	23.02
02	PB165828BS	13001	16.69	9257	20.94	9148	23.02

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: **BN035850.D**

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Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	12/18/24	
Project:	CTO WE13		Date Received:	12/20/24	
Client Sample ID:	BP-VPB-190A-GW-718-720		SDG No.:	P5374	
Lab Sample ID:	P5374-03		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	970 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 :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035850.D	1	12/23/24 13:29	12/26/24 13:07	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.52		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.22		30 - 150		55%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		55 - 111		60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.21		53 - 106		53%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.29		58 - 132		73%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3720	7.257				
1146-65-2	Naphthalene-d8	9840	9.999				
15067-26-2	Acenaphthene-d10	7030	13.914				
1517-22-2	Phenanthrene-d10	14700	16.686				
1719-03-5	Chrysene-d12	12500	20.938				
1520-96-3	Perylene-d12	12300	23.018				

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: **BN035850.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035850.D
Acq On : 26 Dec 2024 13:07
Operator : RC/JU
Sample : P5374-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 27 00:40:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3717	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9841	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	7032	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	14733	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	12545	0.400	ng	#-0.02
35) Perylene-d12	23.018	264	12258	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	452	0.049	ng	-0.01
5) Phenol-d6	6.470	99	406	0.036	ng	-0.02
8) Nitrobenzene-d5	8.397	82	1453m	0.242	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4322	0.281	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	397	0.080	ng	-0.01
15) 2-Fluorobiphenyl	12.518	172	5672	0.213	ng	-0.03
27) Fluoranthene-d10	18.743	212	9176	0.220	ng	-0.02
31) Terphenyl-d14	19.375	244	7214	0.292	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1795	0.505	ng	# 95
34) Bis(2-ethylhexyl)phtha...	20.893	149	19704	1.137	ng	98

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

Quantitation Report (QT Reviewed)

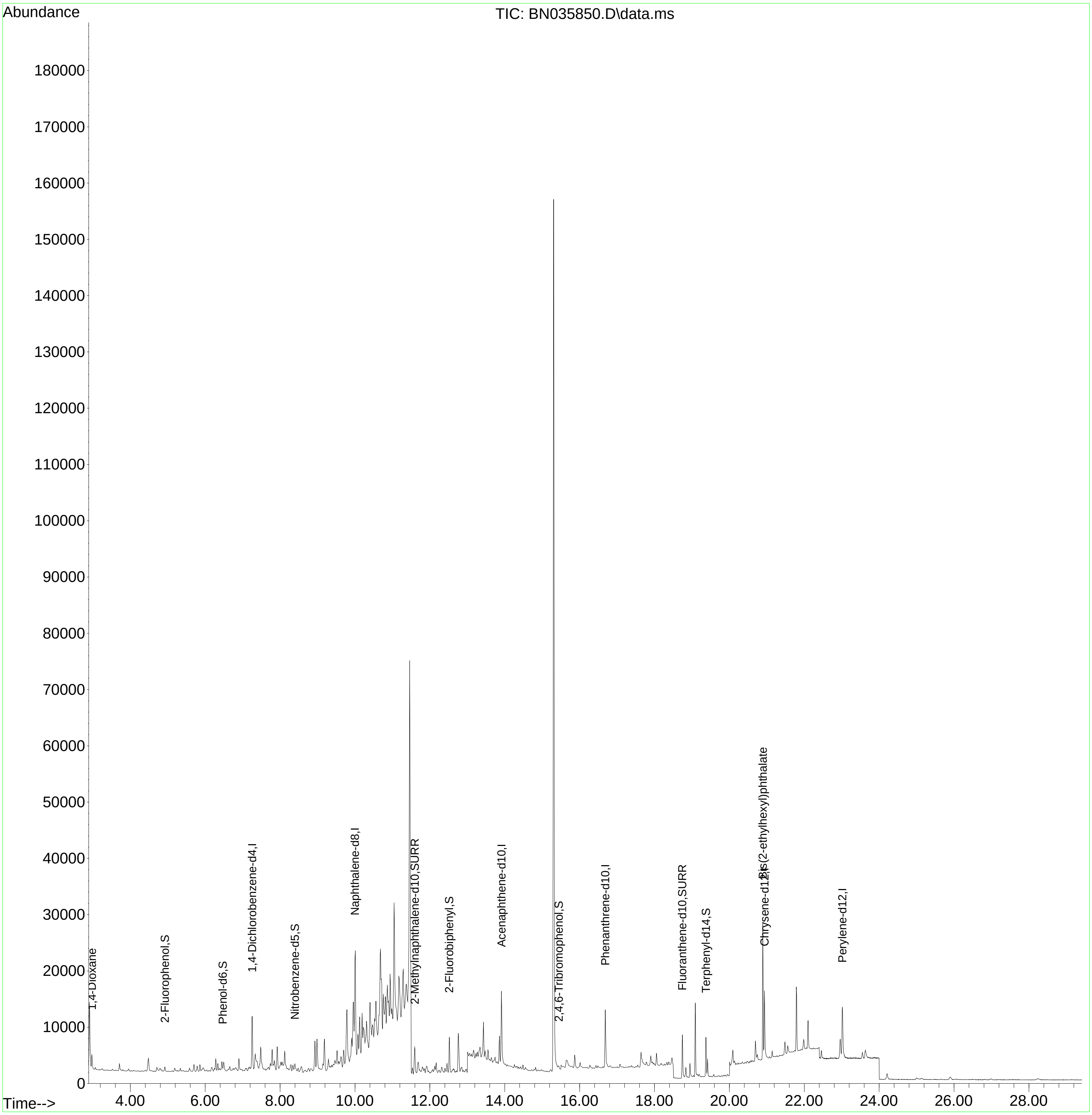
Sample Results: **BN035850.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035850.D
Acq On : 26 Dec 2024 13:07
Operator : RC/JU
Sample : P5374-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

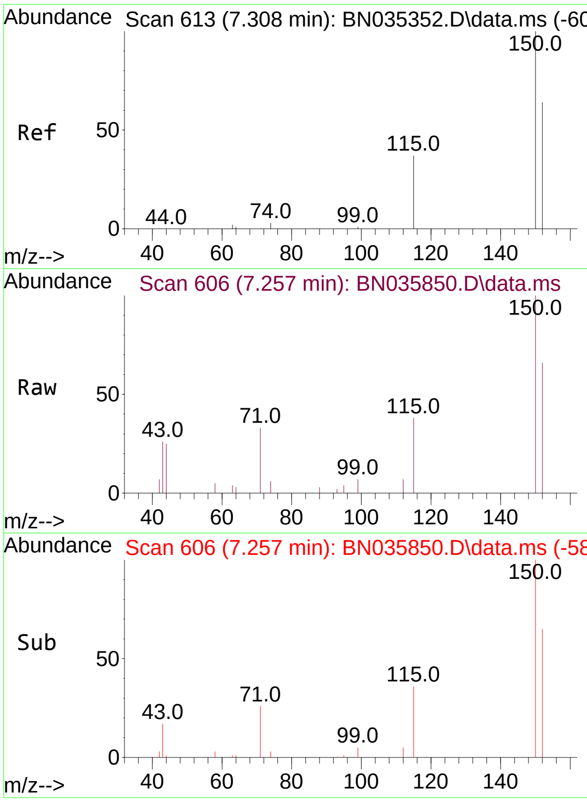
Quant Time: Dec 27 00:40:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED

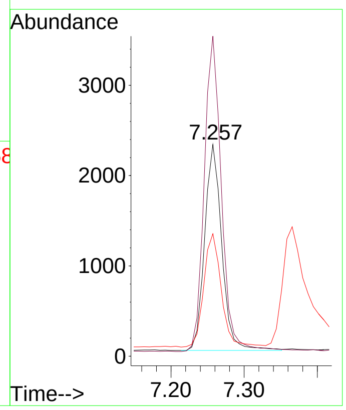
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

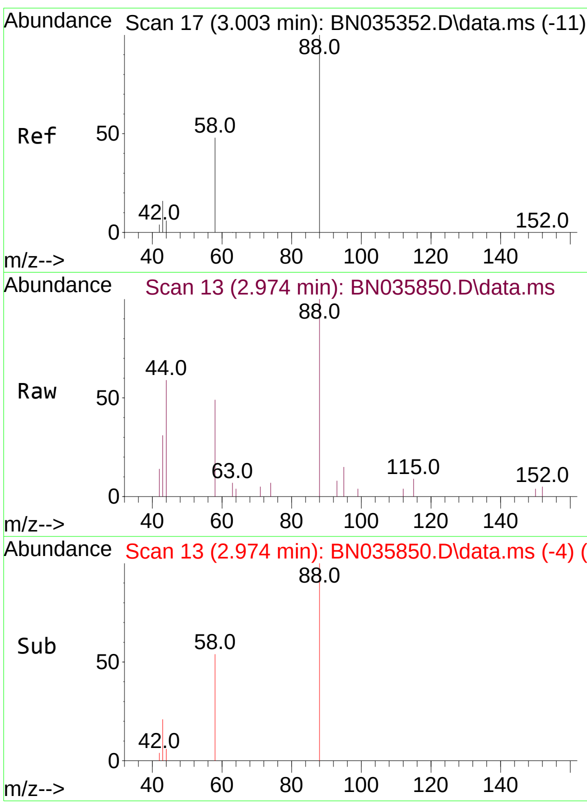


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:152 Resp: 3711

Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.0	186.0
115	57.8	49.6	74.4

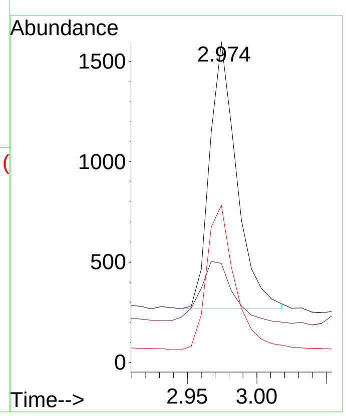




#2
1,4-Dioxane
Concen: 0.505 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion: 88 Resp: 1795

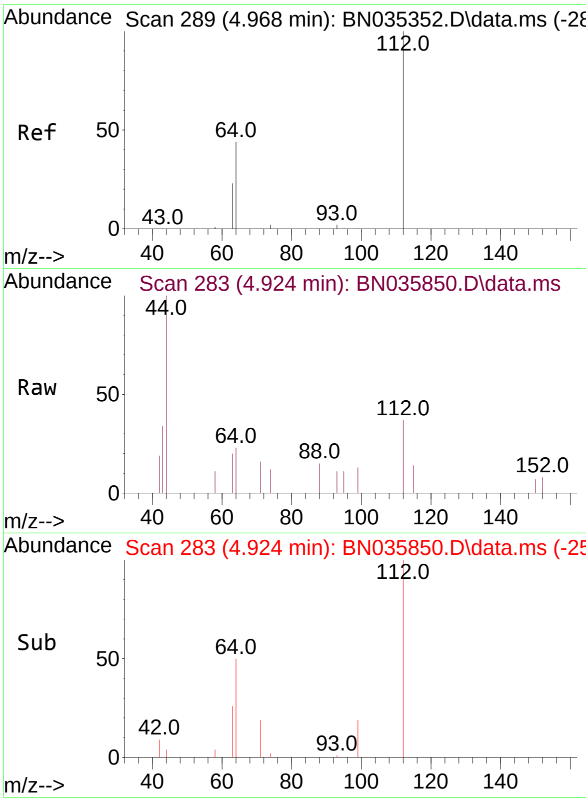
Ion	Ratio	Lower	Upper
88	100		
43	27.9	17.2	25.8#
58	56.4	44.5	66.7



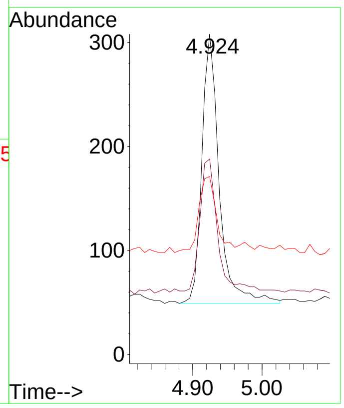
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

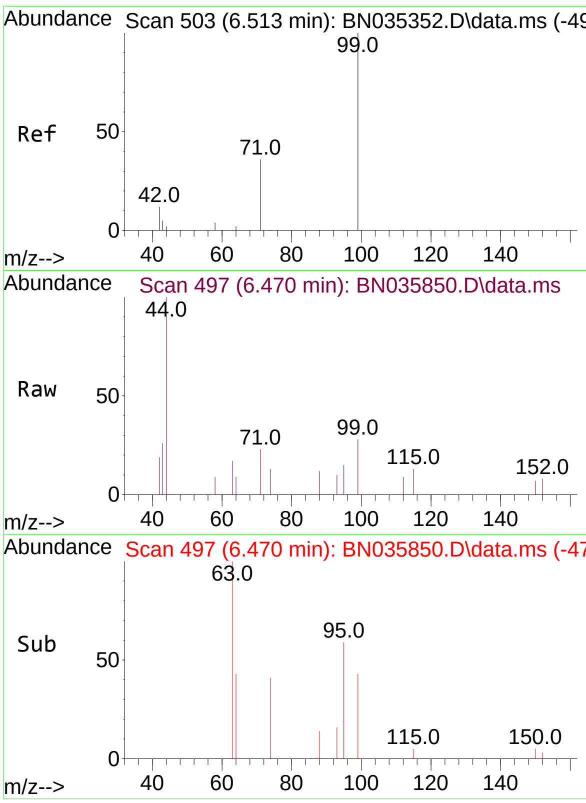
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

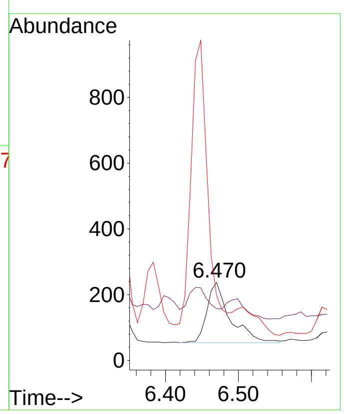



```
#4
2-Fluorophenol
Concen:    0.049 ng
RT:   4.924 min  Scan# 2
Delta R.T.  -0.015 min
Lab File:   BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion:112 Resp:     45
Ion  Ratio  Lower  Upper
112  100
 64   50.9   39.8   59.8
 63   26.5   21.0   31.6
```





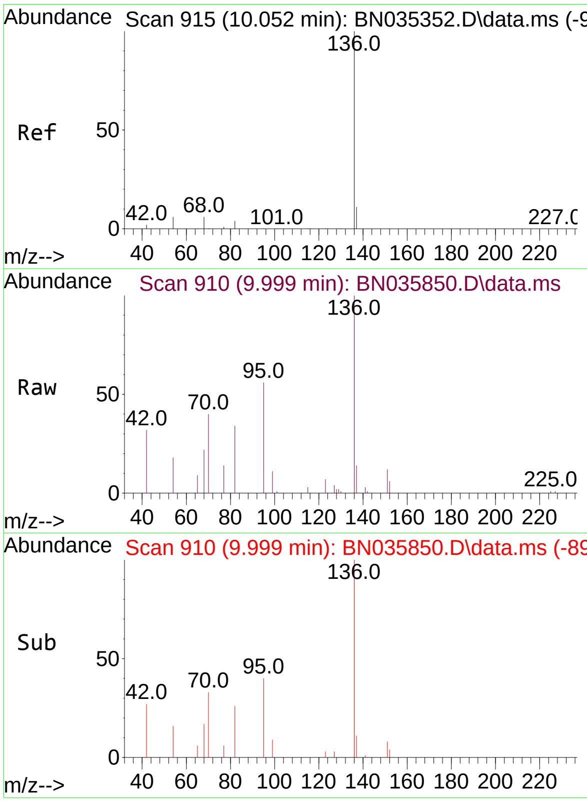

```
#5
Phenol-d6
Concen:    0.036 ng
RT:   6.470 min  Scan# 497
Delta R.T.  -0.022 min
Lab File:   BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion: 99 Resp:     406
Ion  Ratio  Lower  Upper
 99  100
 42    0.0   11.4   17.2#
 71    0.0   29.3   43.9#
```



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED

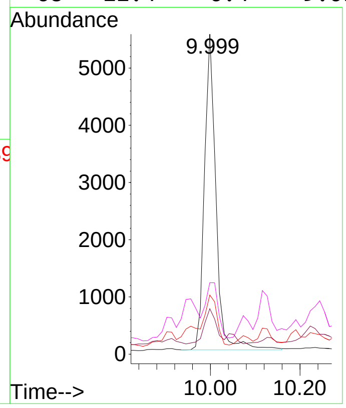
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

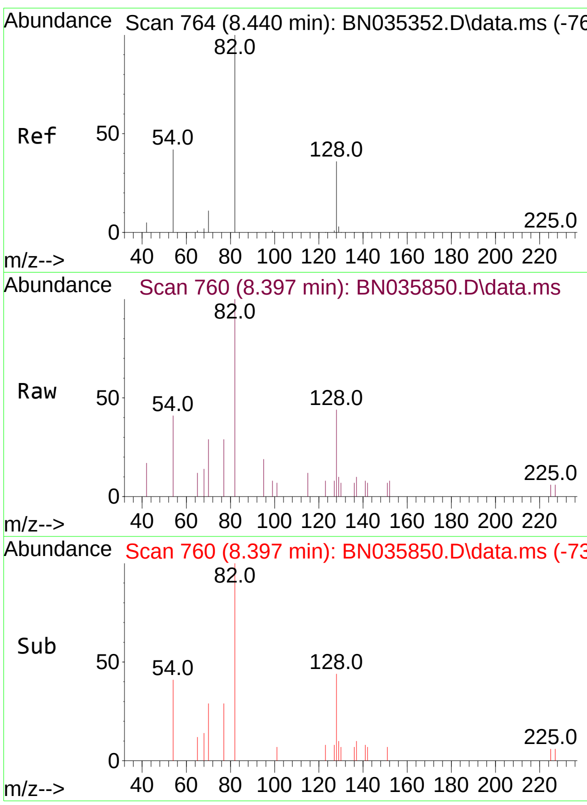


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:136 Resp: 984

Ion	Ratio	Lower	Upper
136	100		
137	14.2	10.2	15.2
54	18.5	6.1	9.1#
68	22.4	6.4	9.6#

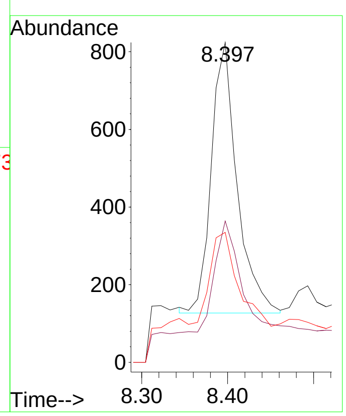


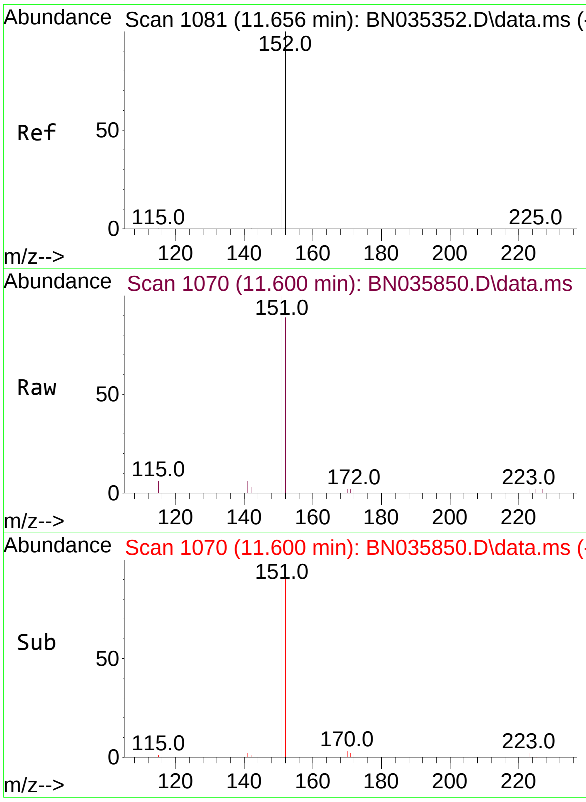


#8
Nitrobenzene-d5
Concen: 0.242 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion: 82 Resp: 1453

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.4	50.0
54	40.7	36.7	55.1





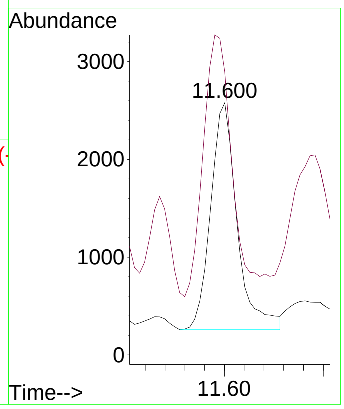
#11
2-Methylnaphthalene-d10
Concen: 0.281 ng
RT: 11.600 min Scan# 10
Delta R.T. -0.020 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

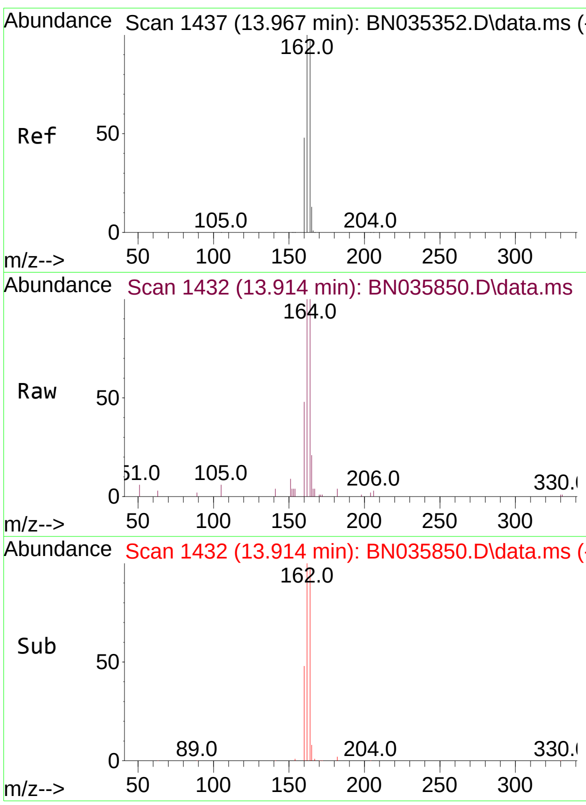
Tgt Ion:152 Resp: 432

Ion	Ratio	Lower	Upper
152	100		
151	126.7	16.6	25.0#

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

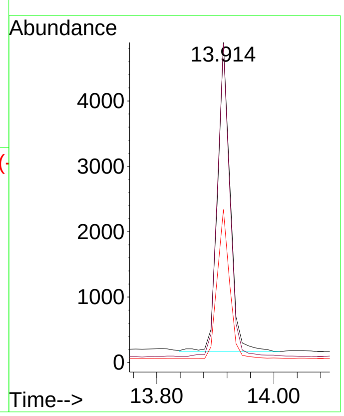




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 1432
Delta R.T. -0.021 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

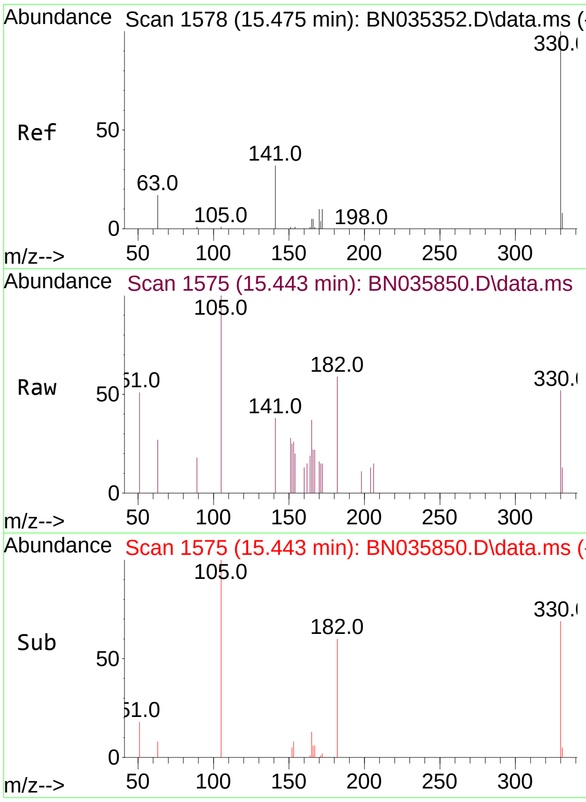
Tgt Ion:164 Resp: 7032

Ion	Ratio	Lower	Upper
164	100		
162	99.7	82.2	123.2
160	47.8	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

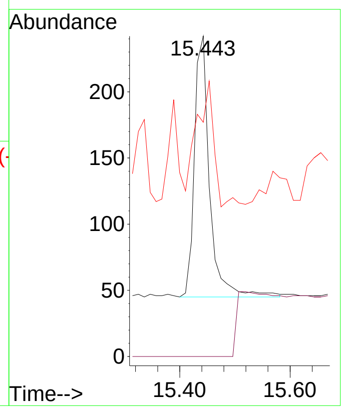
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

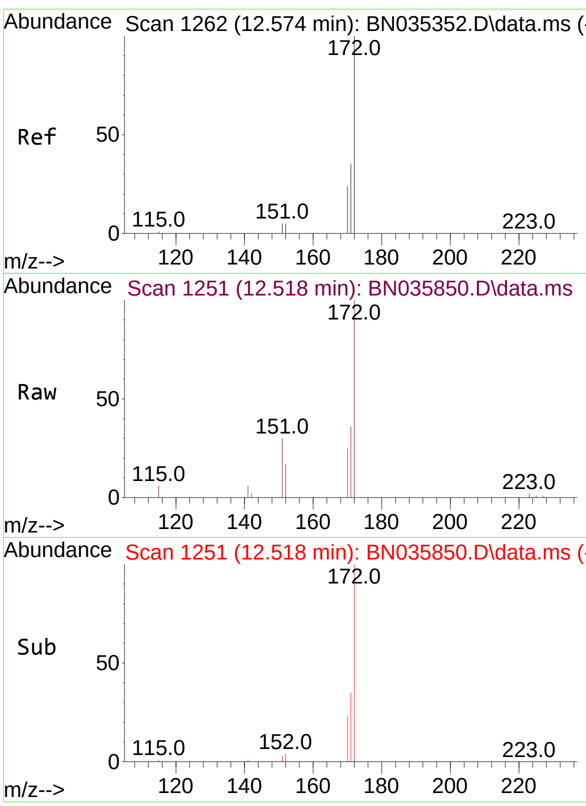


#14
2,4,6-Tribromophenol
Concen: 0.080 ng
RT: 15.443 min Scan# 1!
Delta R.T. -0.011 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:330 Resp: 39

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	46.9	26.6	40.0#

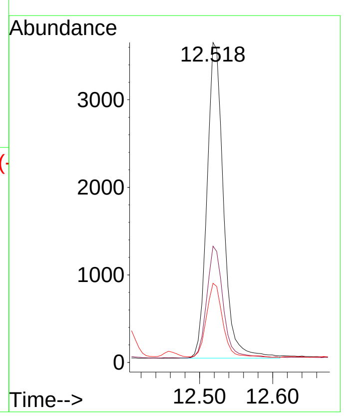




#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.518 min Scan# 1251
Delta R.T. -0.025 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:172 Resp: 5672

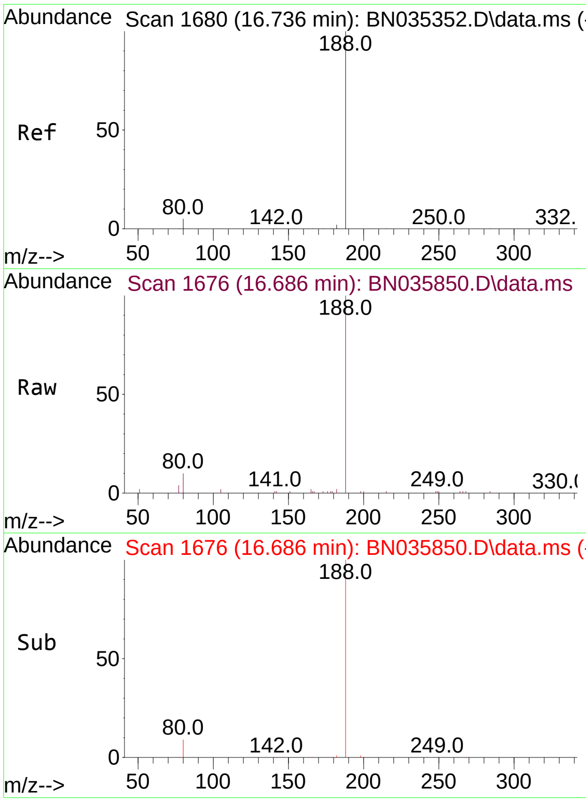
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED

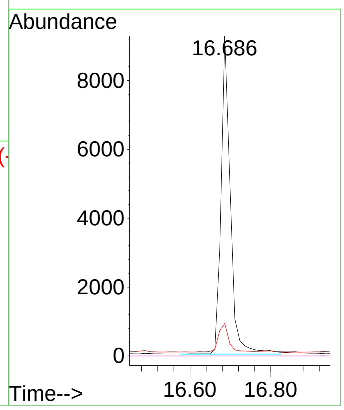
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

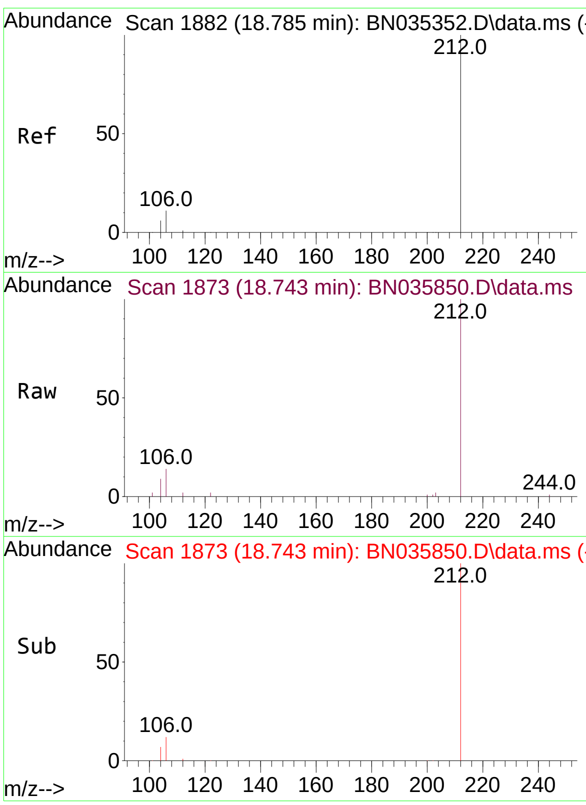


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:188 Resp: 1473

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	4.6	6.8

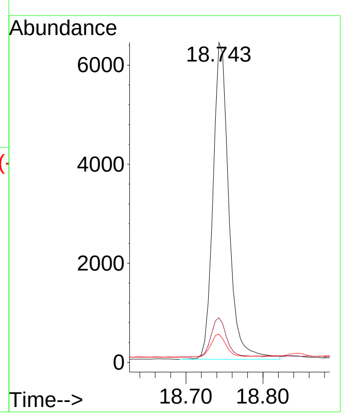




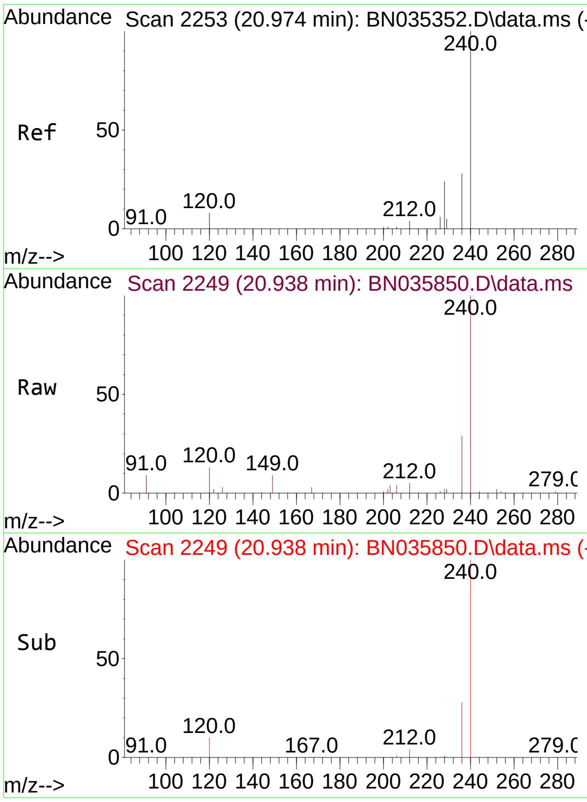
#27
Fluoranthene-d10
Concen: 0.220 ng
RT: 18.743 min Scan# 1873
Delta R.T. -0.019 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:212 Resp: 9176

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.2	5.3	7.9



Sample Results: **BN035850.D**



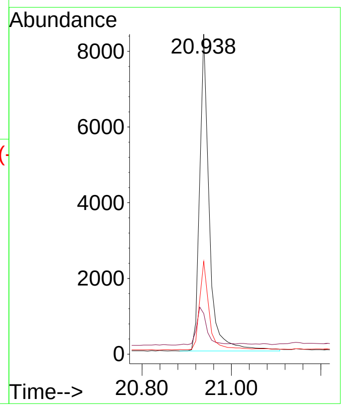
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

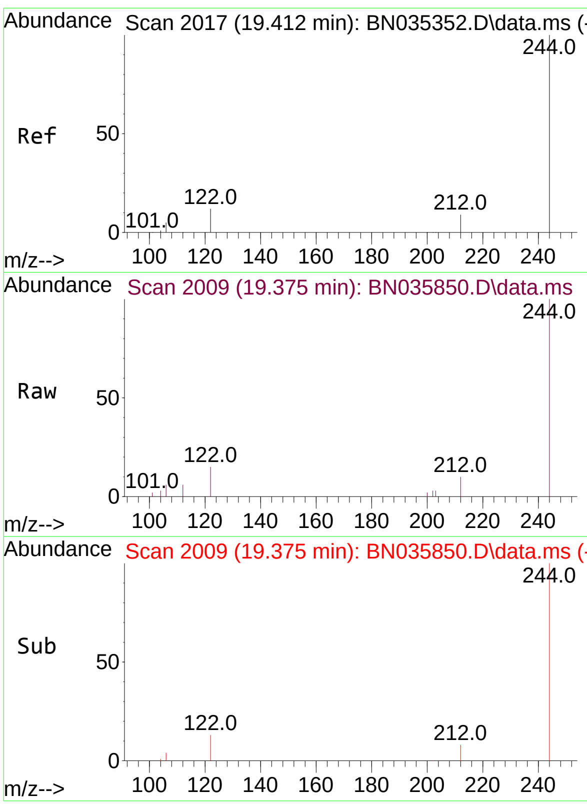
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Tgt Ion:240 Resp: 1254

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9
236	29.0	22.9	34.3

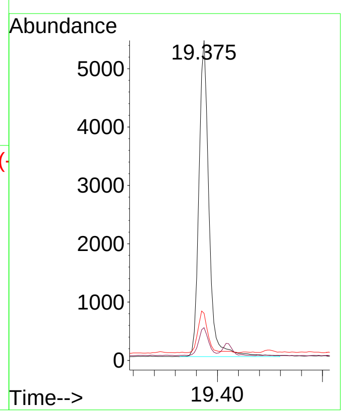




#31
Terphenyl-d14
Concen: 0.292 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:244 Resp: 7214

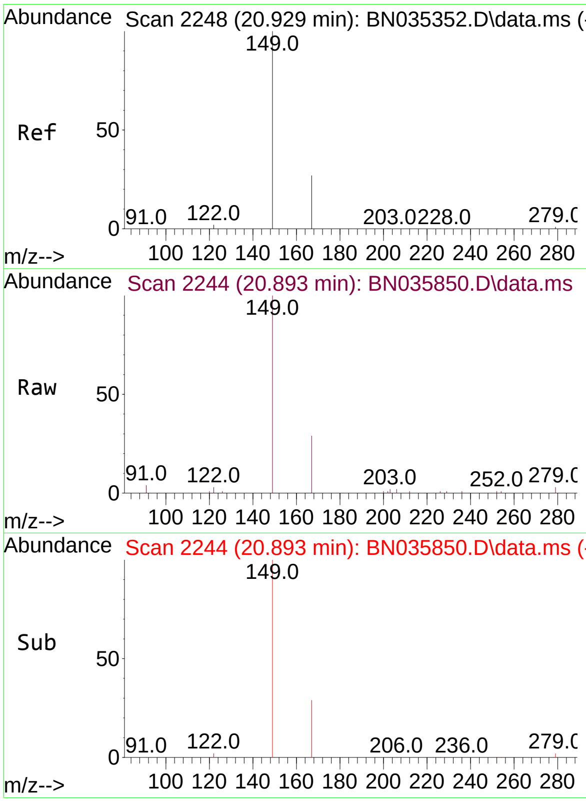
Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5



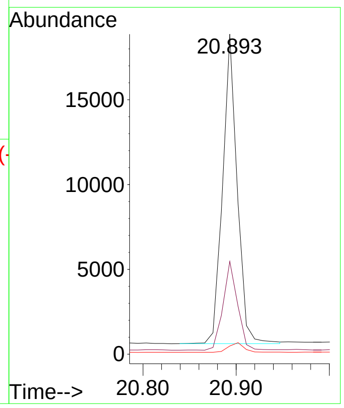
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

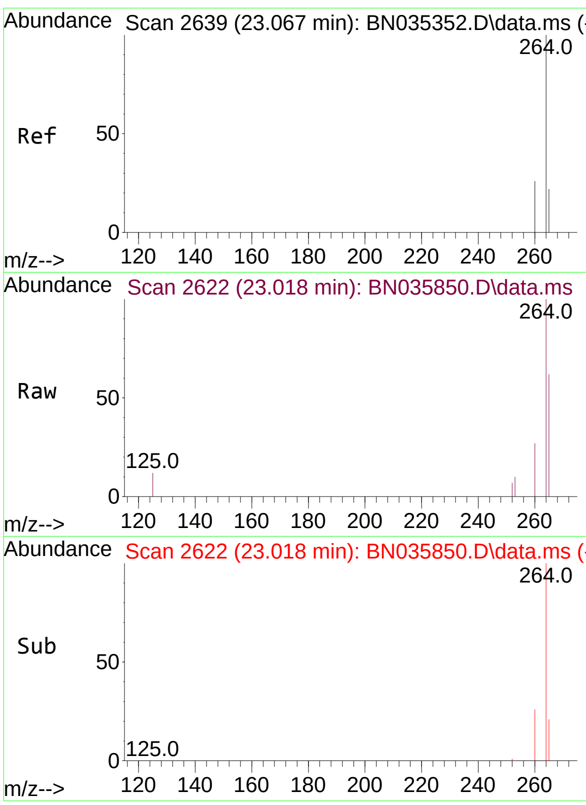
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

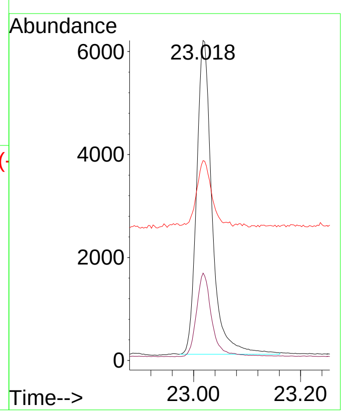



```
#34
Bis(2-ethylhexyl)phthalate
Concen:    1.137 ng
RT:  20.893 min  Scan# 2
Delta R.T.   -0.018 min
Lab File:    BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion:149 Resp:   1970
Ion  Ratio  Lower  Upper
149  100
167   28.9   22.2   33.4
279    3.3    2.7    4.1
```






```
#35
Perylene-d12
Concen:    0.400 ng
RT:  23.018 min  Scan# 2622
Delta R.T.   -0.023 min
Lab File:    BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion:264 Resp:   12258
Ion  Ratio  Lower  Upper
264  100
260   27.3   21.4   32.2
265   62.5   40.2   60.4#
```



CALIBRATION SUMMARY

Raw Data

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.: P5374 SAS No.: P5374 SDG No.: P5374

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.

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

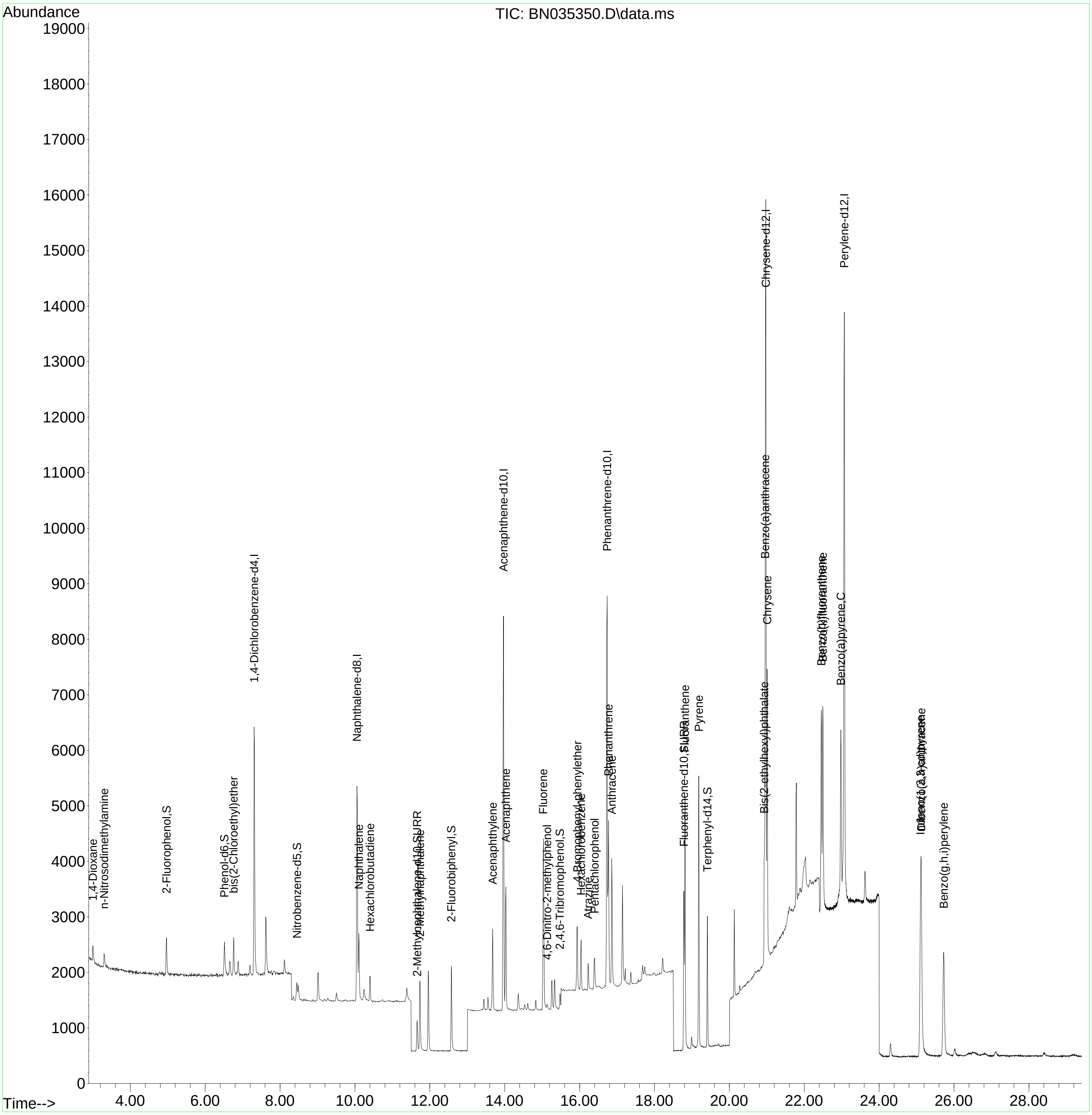
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

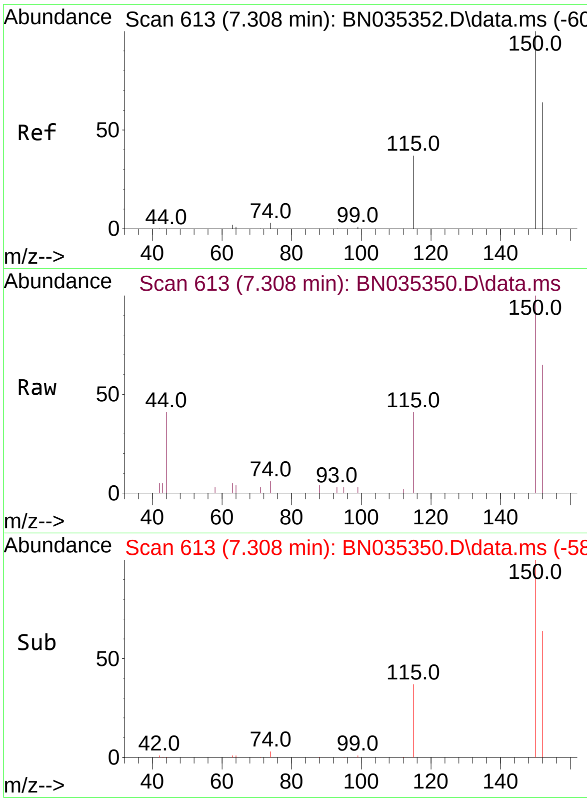
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min   Scan# 6
Delta R.T.   -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

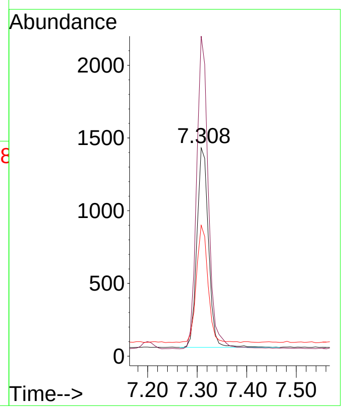
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

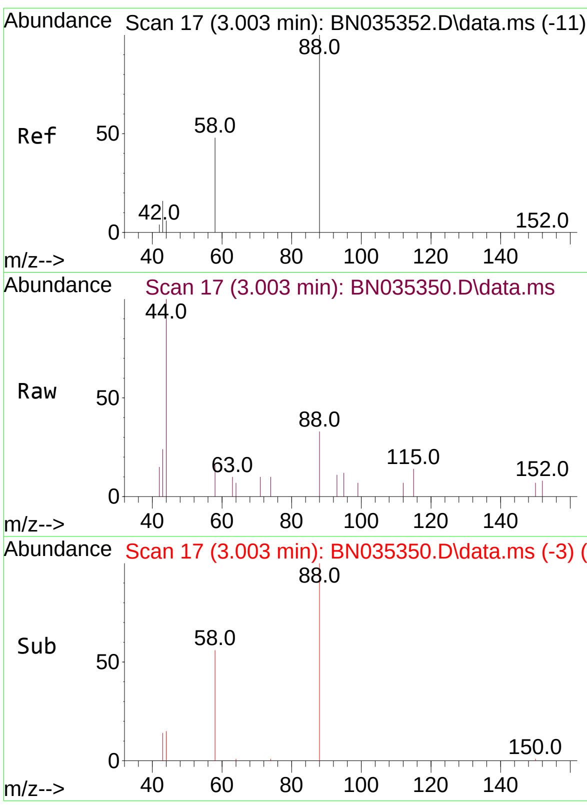
Tgt Ion:152 Resp: 223

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

Manual Integrations
APPROVED

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

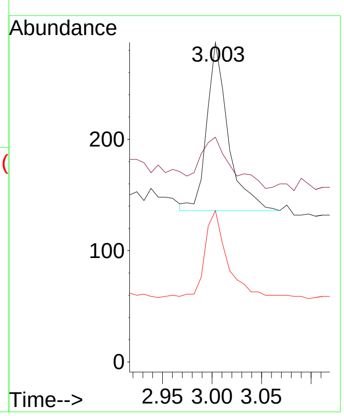




#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min   Scan# 17
Delta R.T.   0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

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



ICAL Form

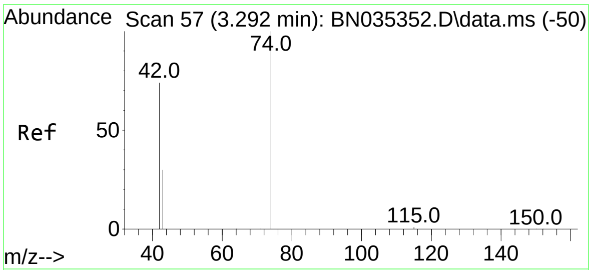
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

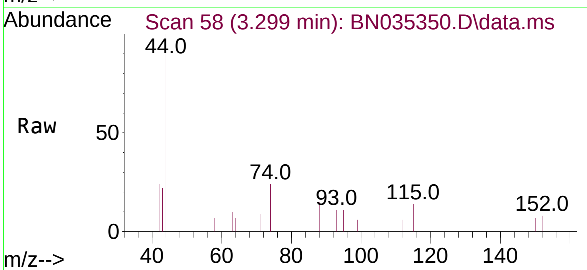
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

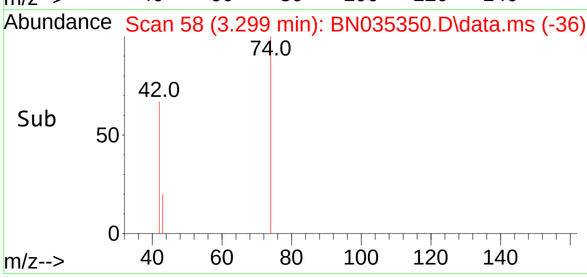
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

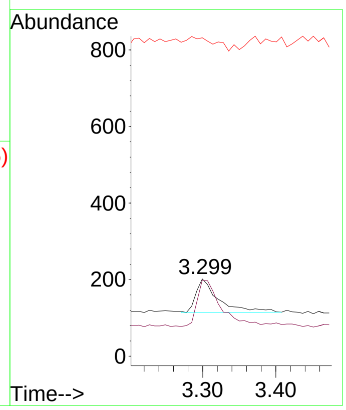
Tgt Ion: 42 Resp: 18

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





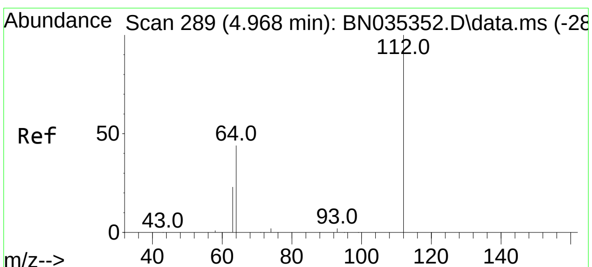


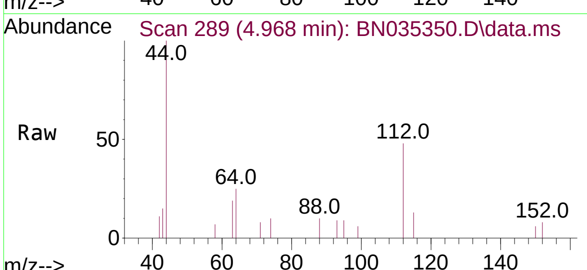


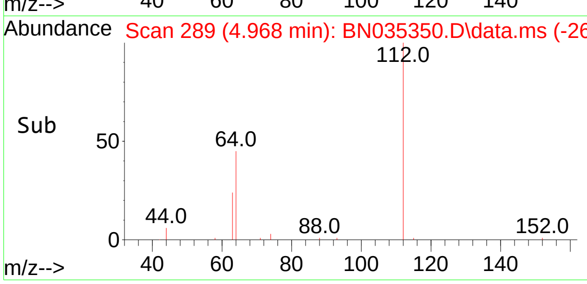
#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

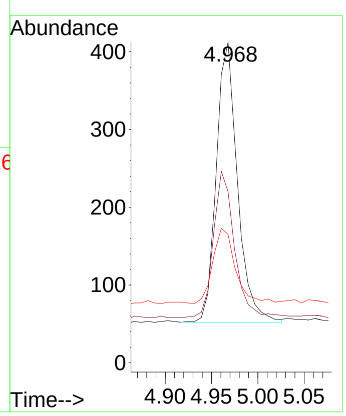
Tgt Ion:112 Resp: 573

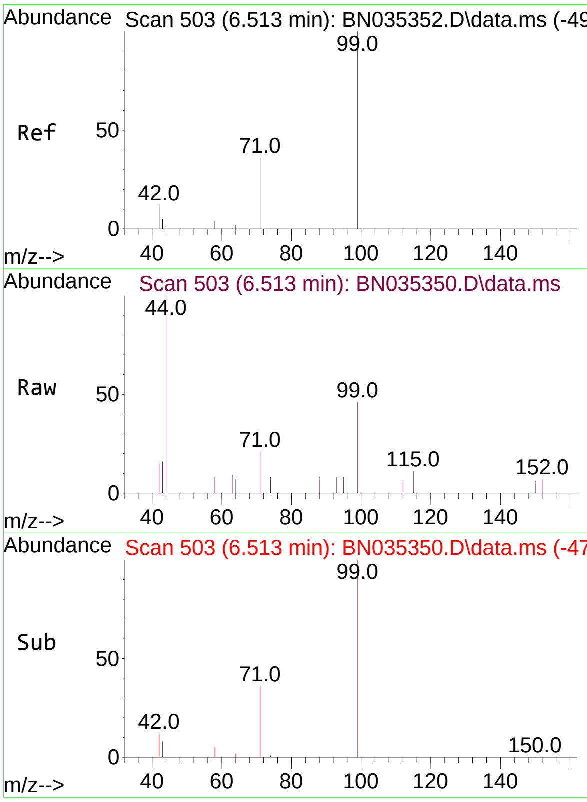
Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.8	59.8
63	28.8	21.0	31.6











#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

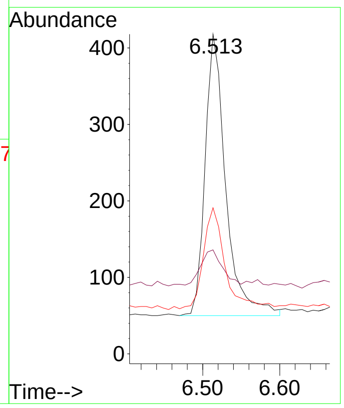
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

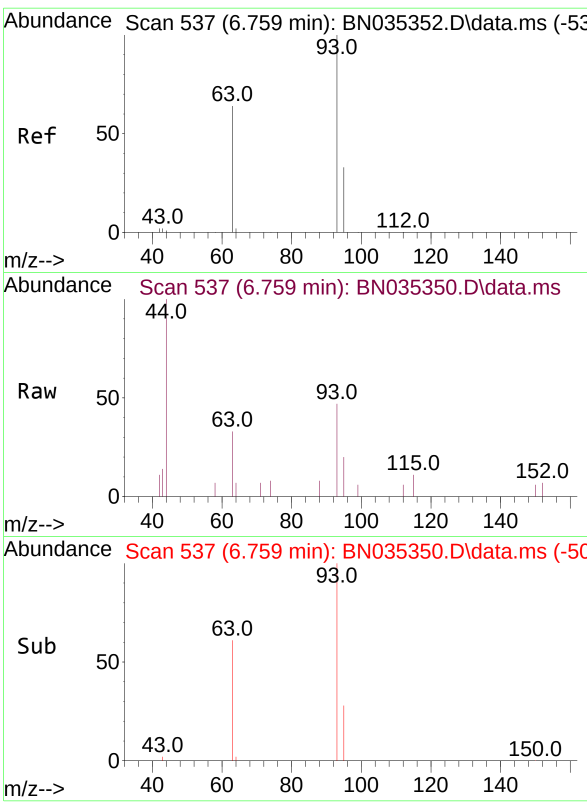
Tgt Ion: 99 Resp: 68(

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

Manual Integrations APPROVED

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

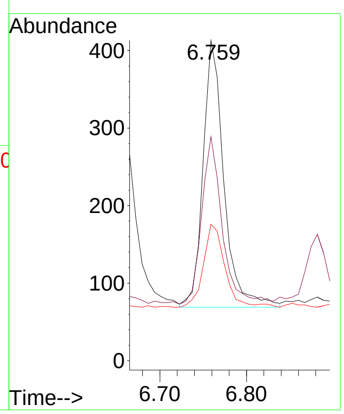




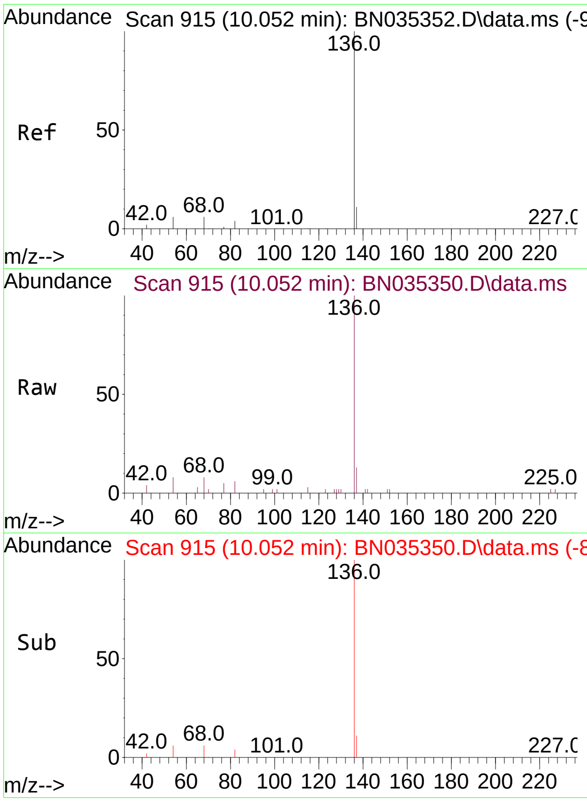
#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min   Scan# 537
Delta R.T.   0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

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



ICAL Form



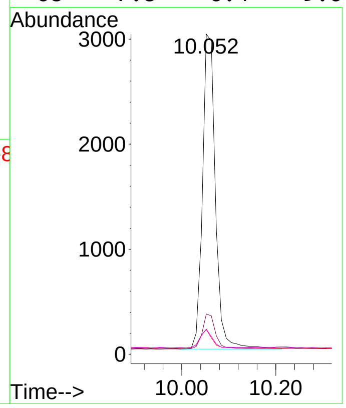
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

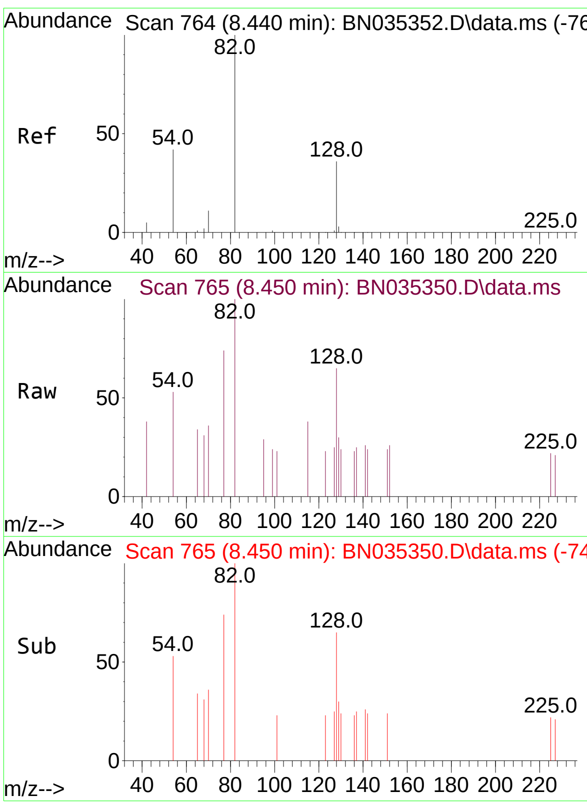
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

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

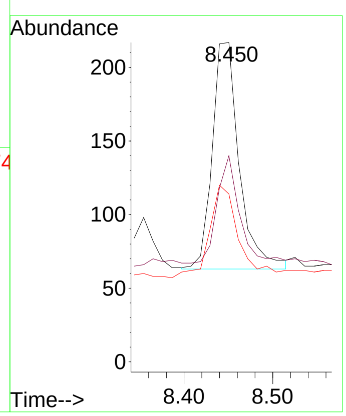


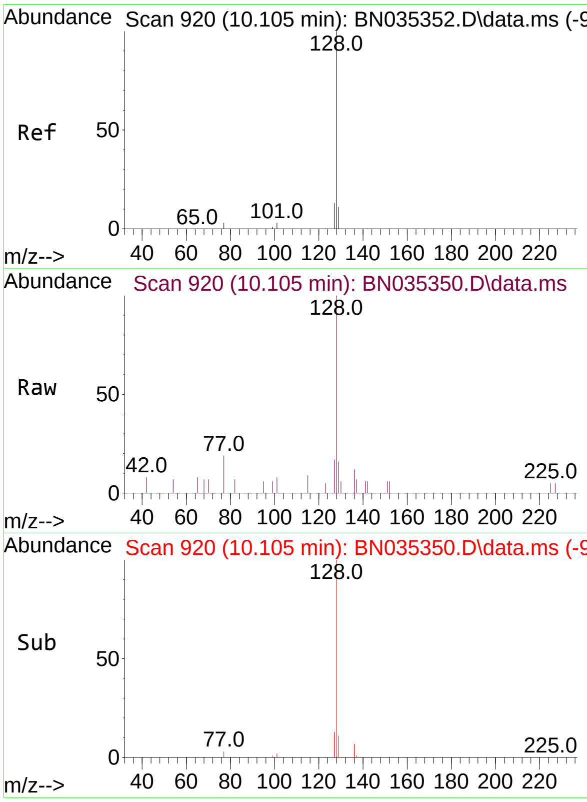


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

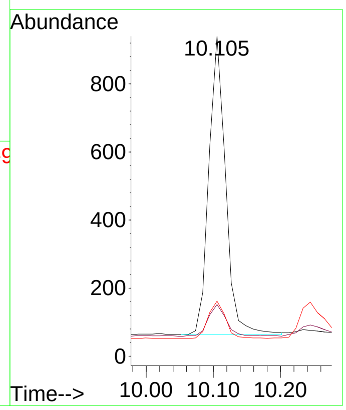
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

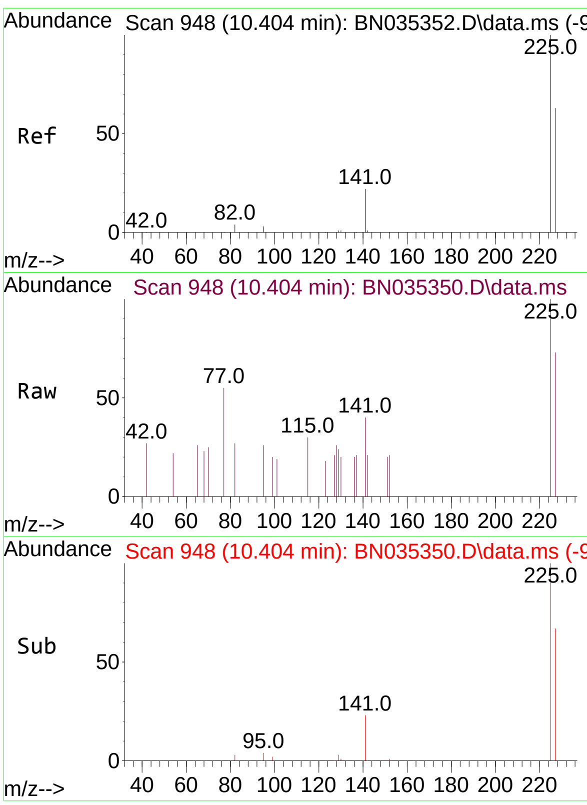
Tgt Ion:128 Resp: 152

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

Manual Integrations APPROVED

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

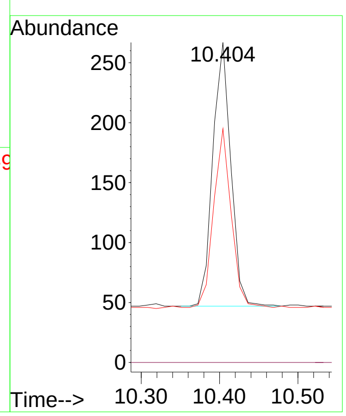




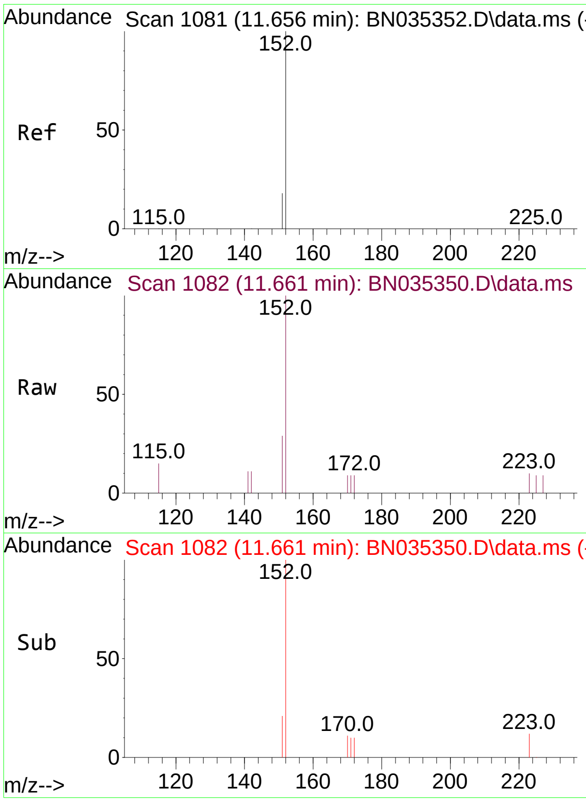
#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



#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

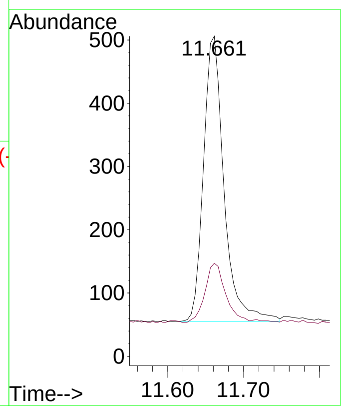
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

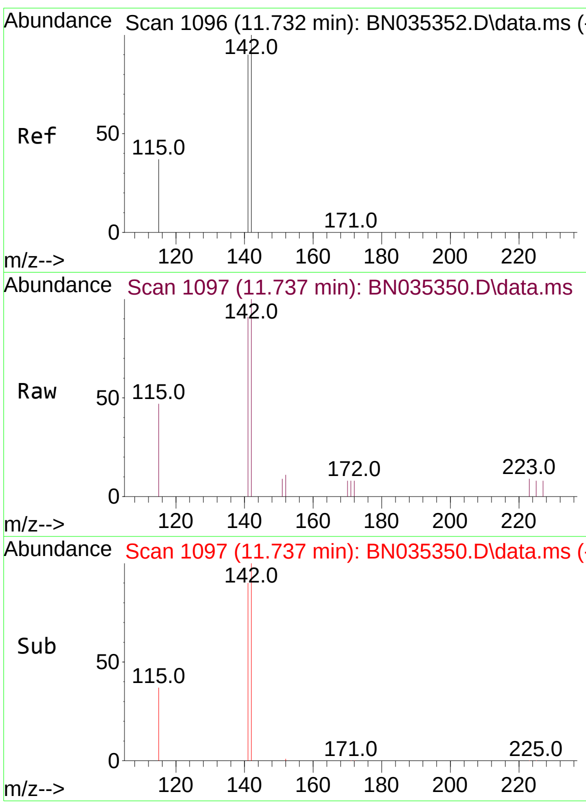
Tgt Ion:152 Resp: 85(

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

Manual Integrations APPROVED

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

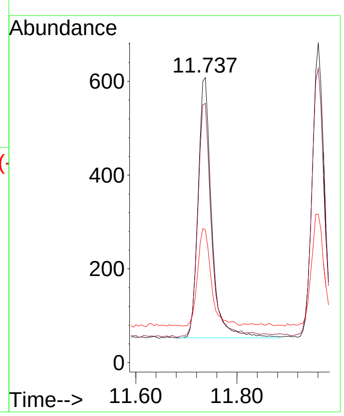




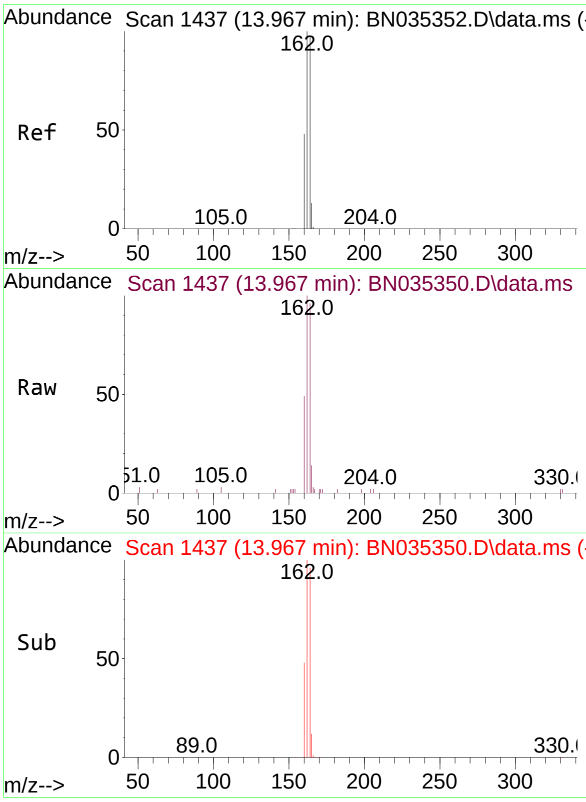
#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



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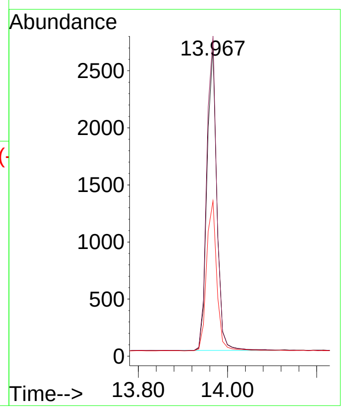
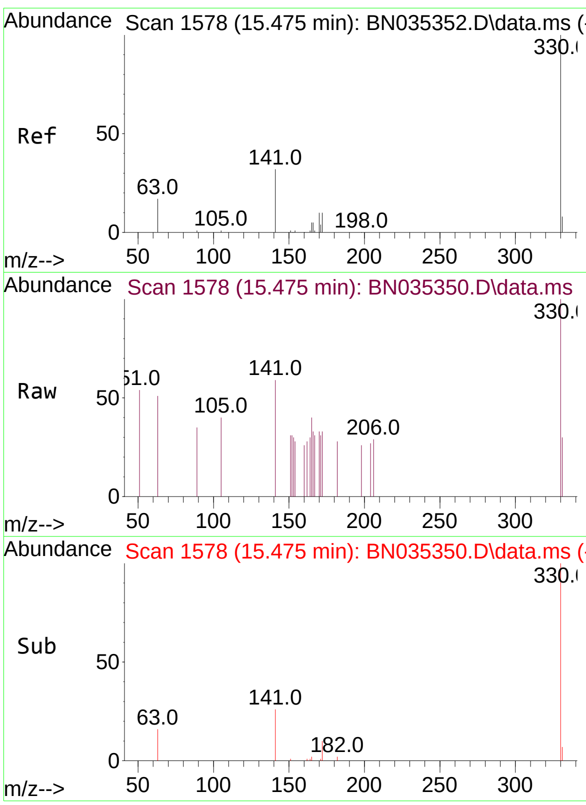
Reviewed By :Yogesh Patel   11/29/2024
Supervised By :mohammad ahmed   12/03/2024

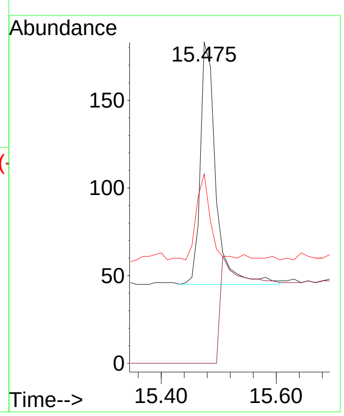




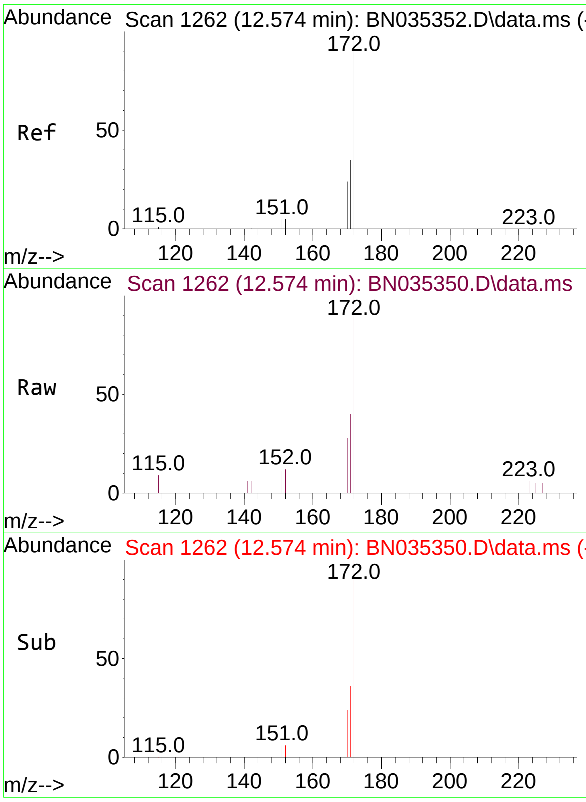
#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min   Scan# 1578
Delta R.T.   0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

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



ICAL Form



#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: 151

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

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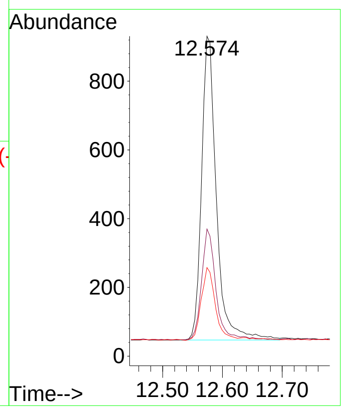
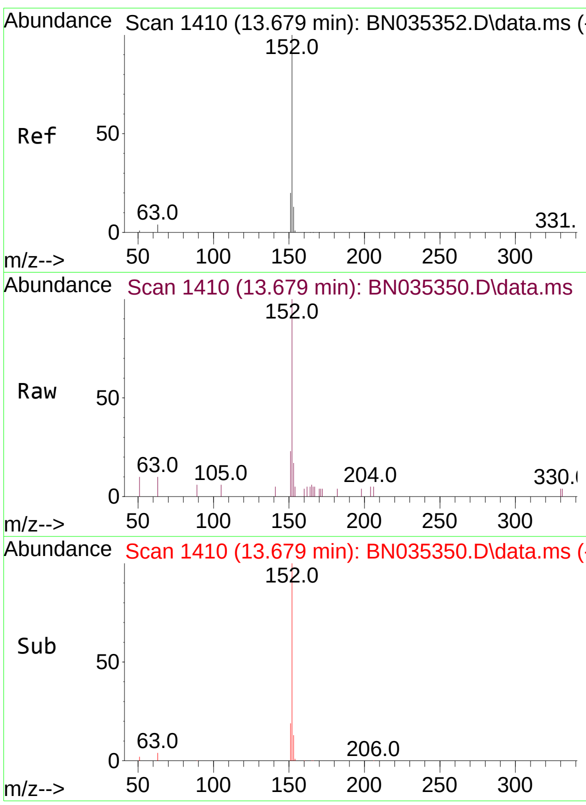
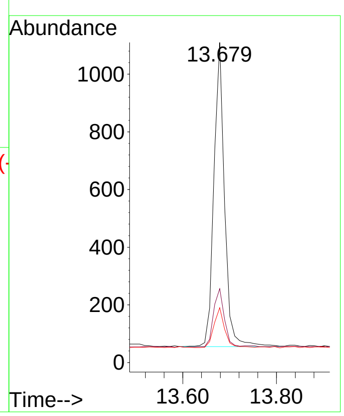




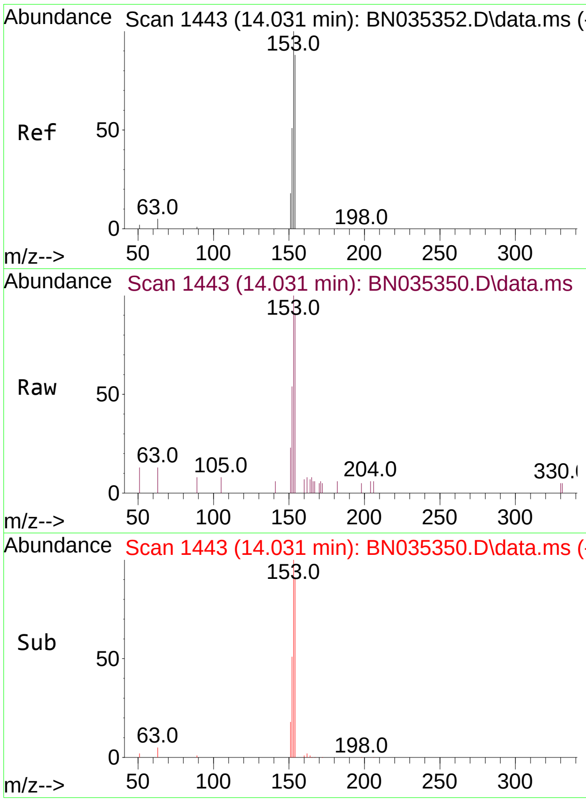
#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



#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: 114

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

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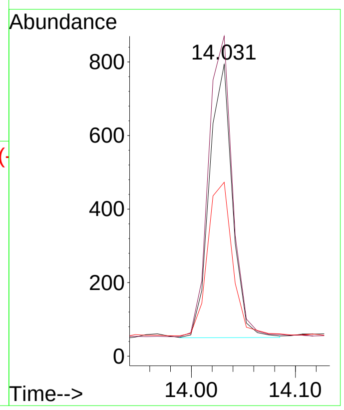
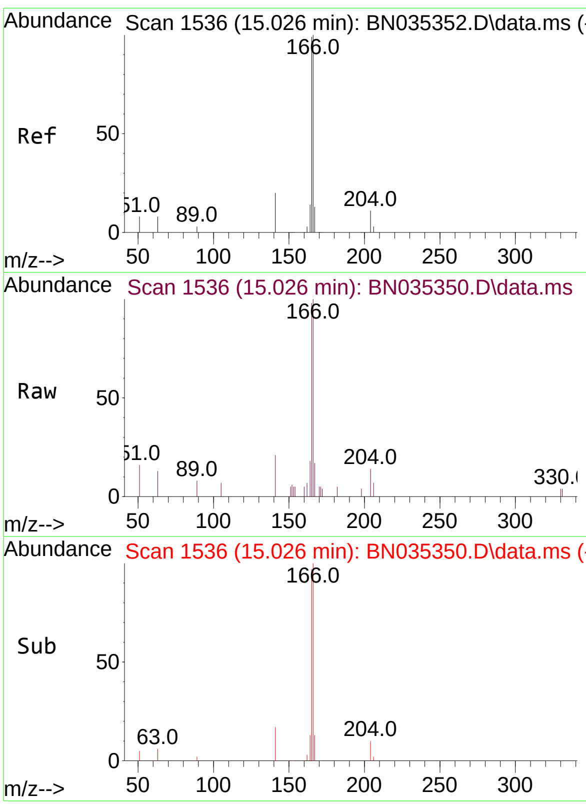
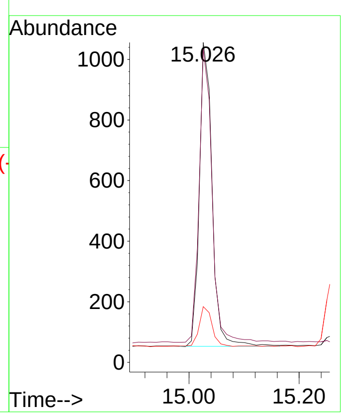




#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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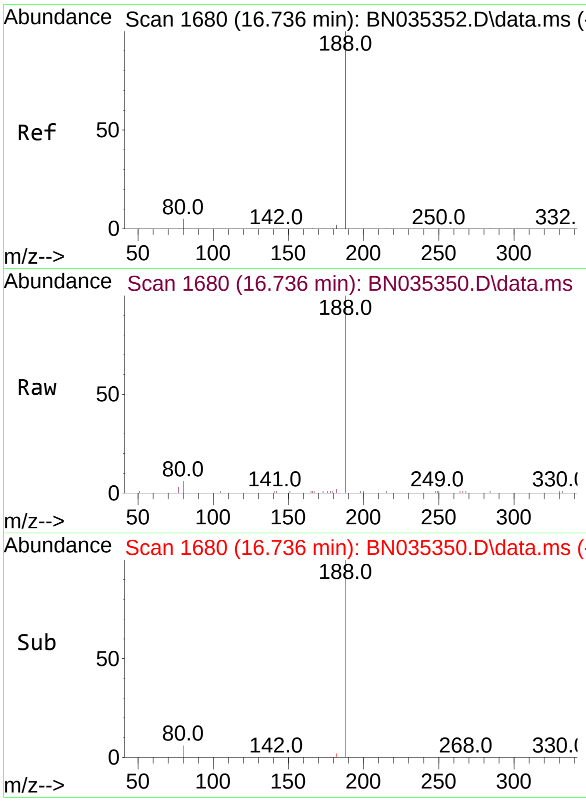
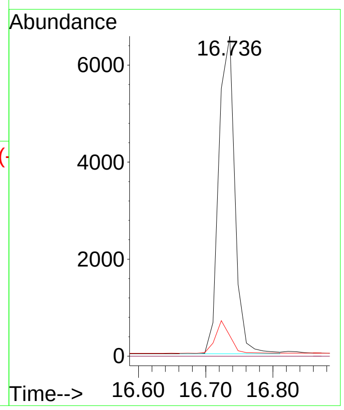
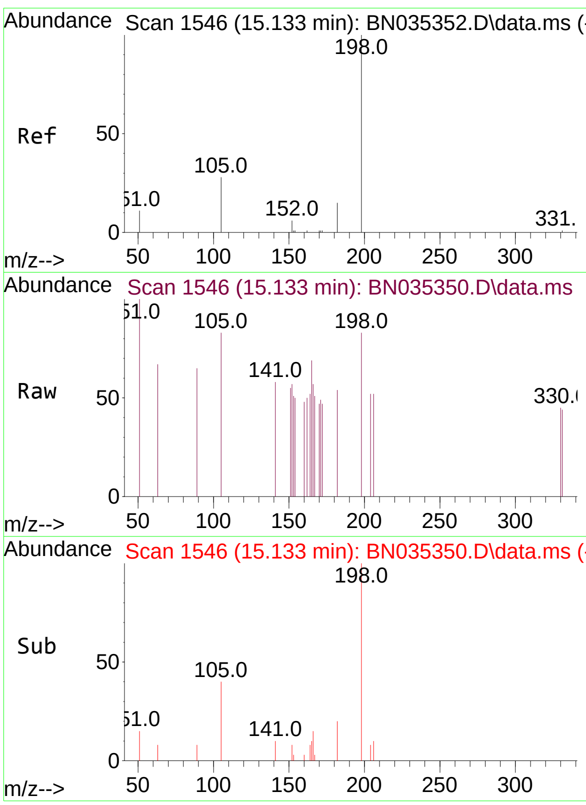


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

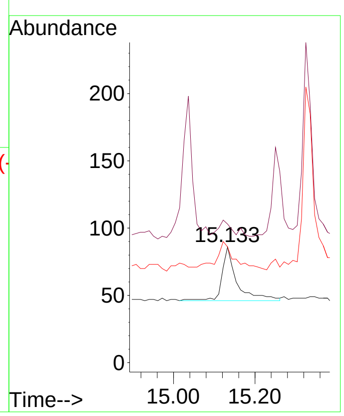




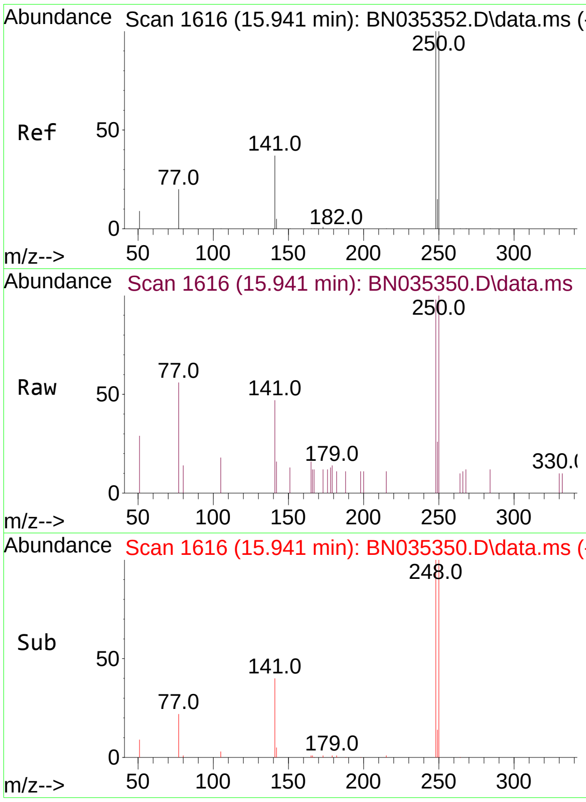
#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#



ICAL Form



#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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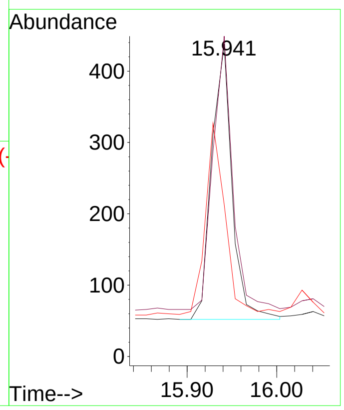
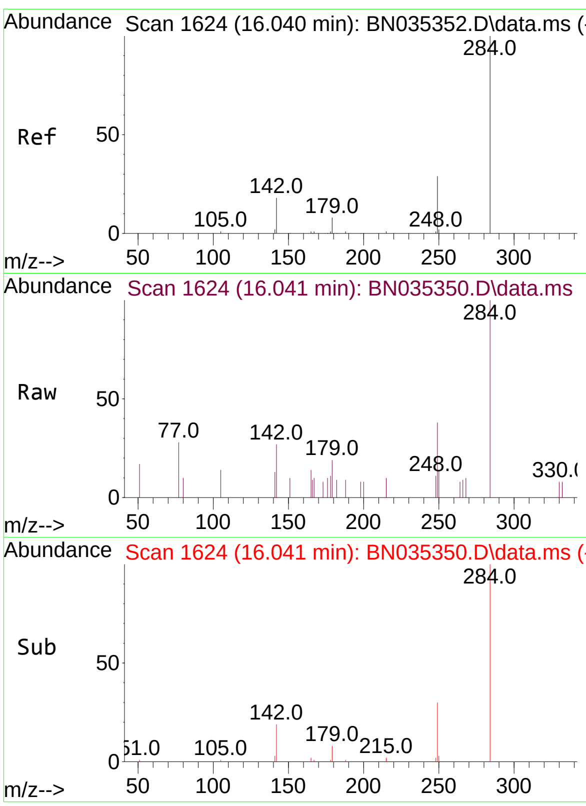
Supervised By :mohammad ahmed 12/03/2024

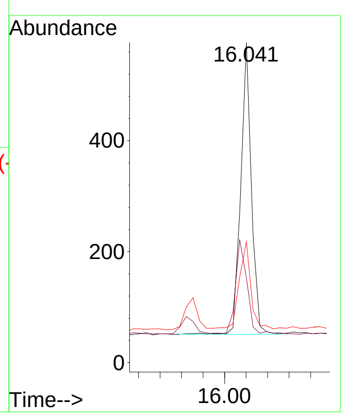




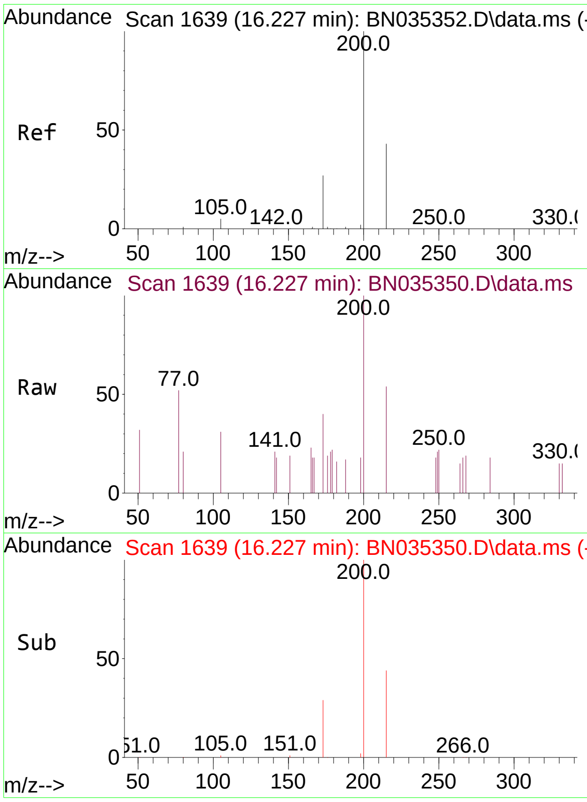
#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



#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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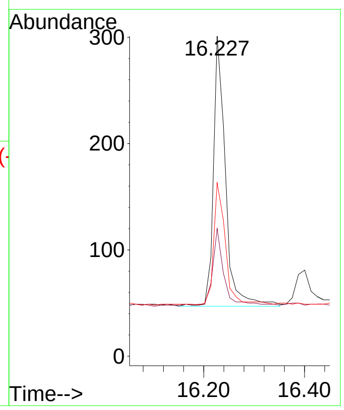
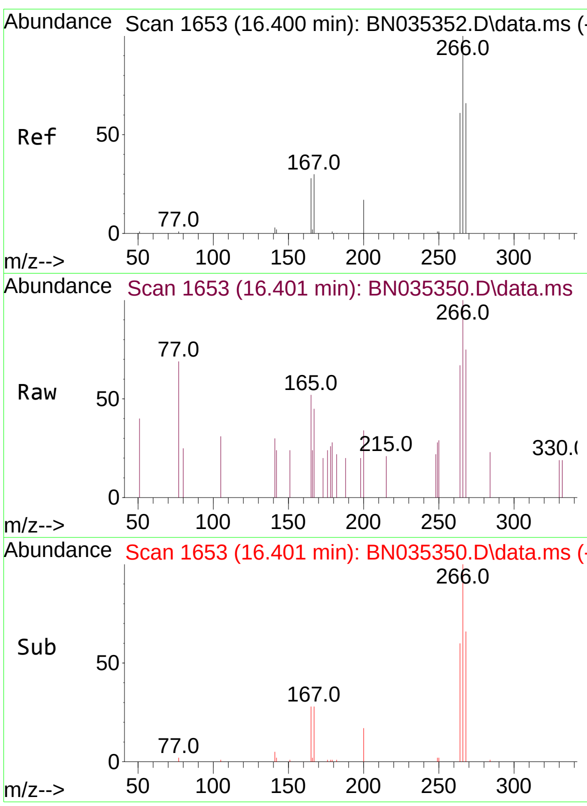
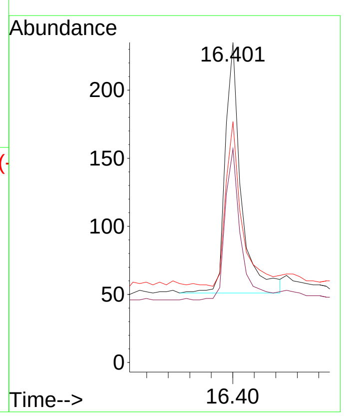




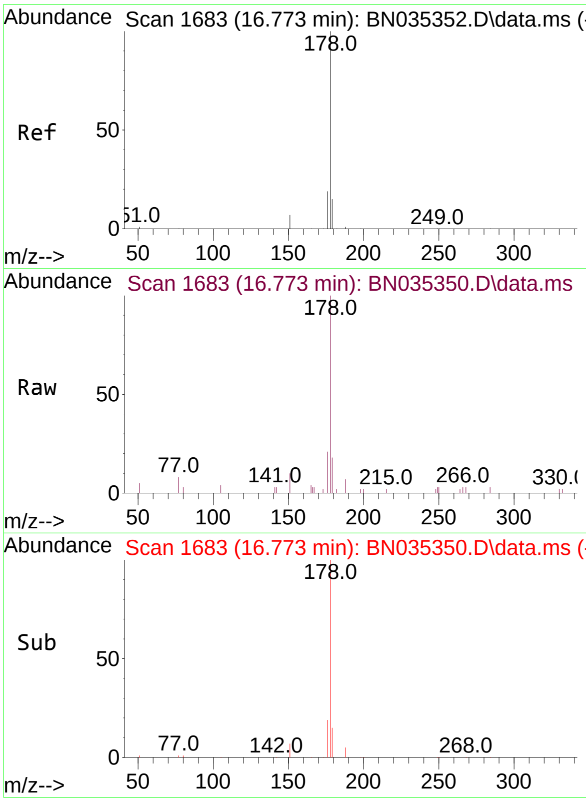
#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



#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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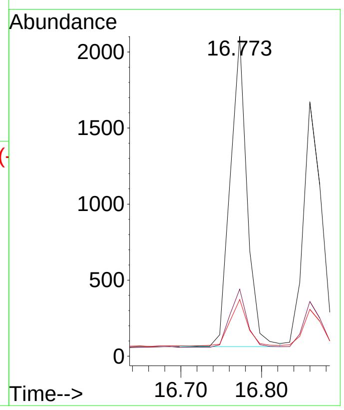
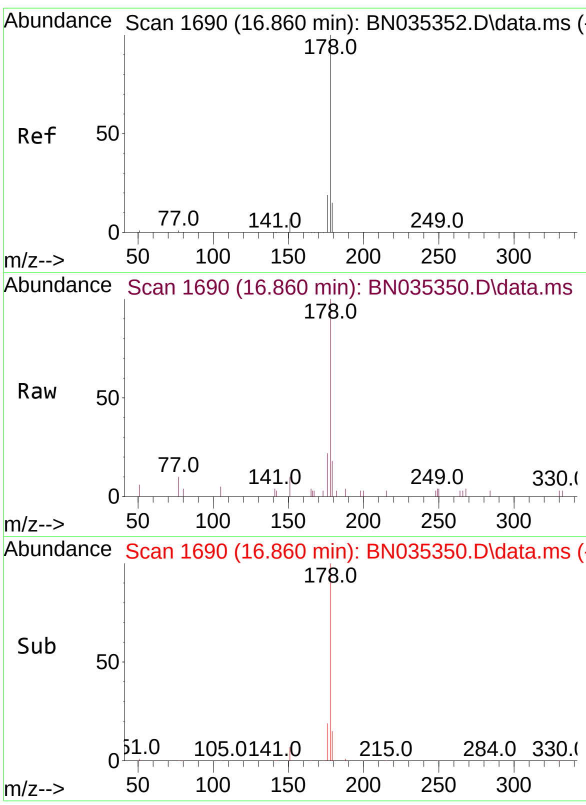
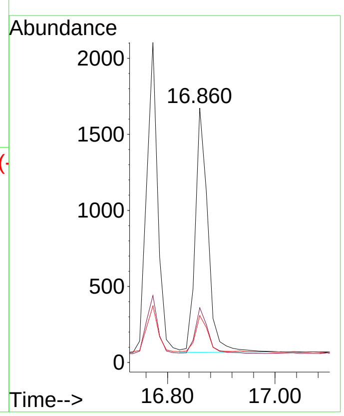




#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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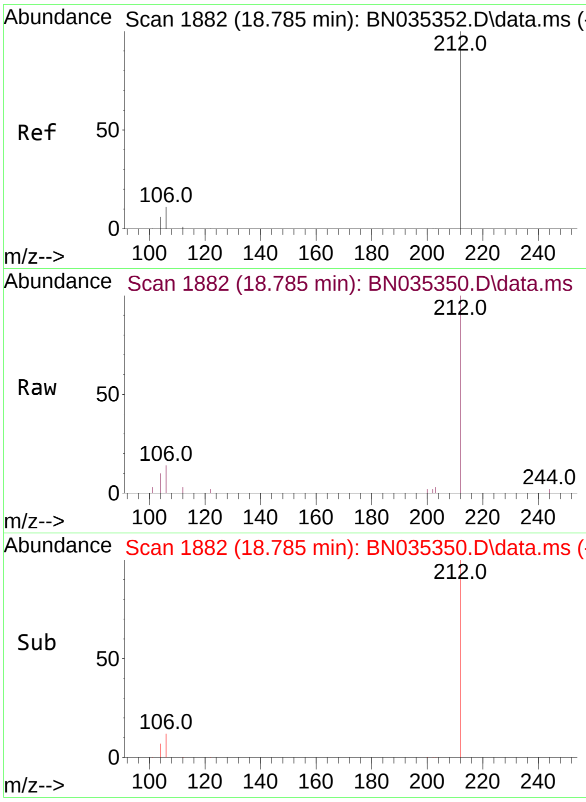
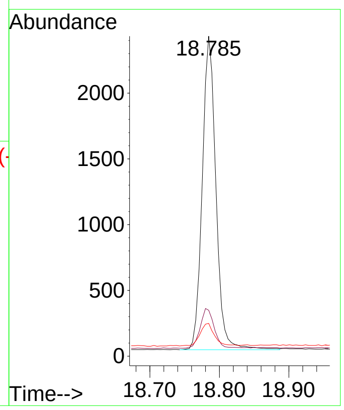
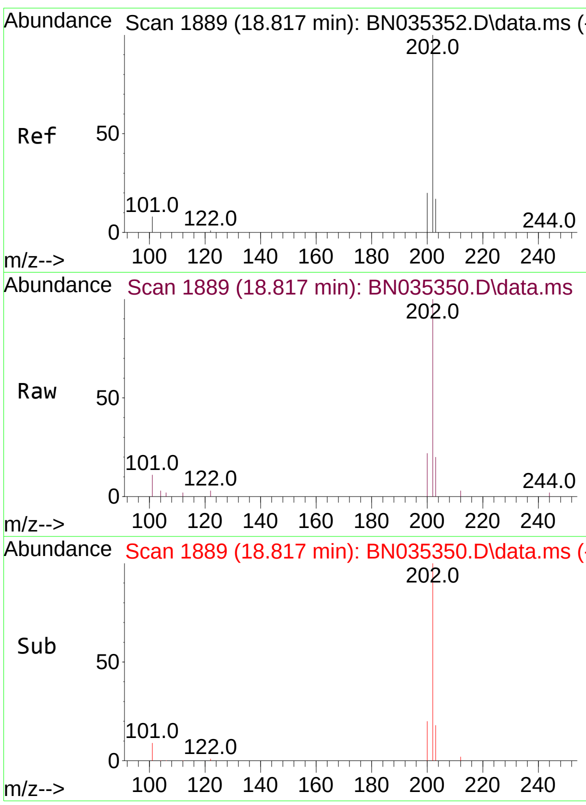
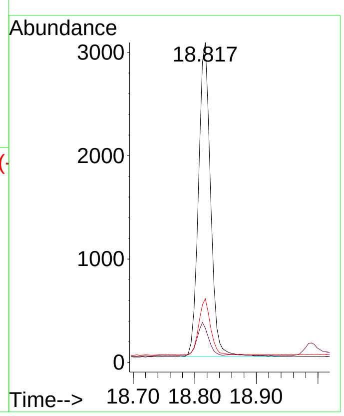


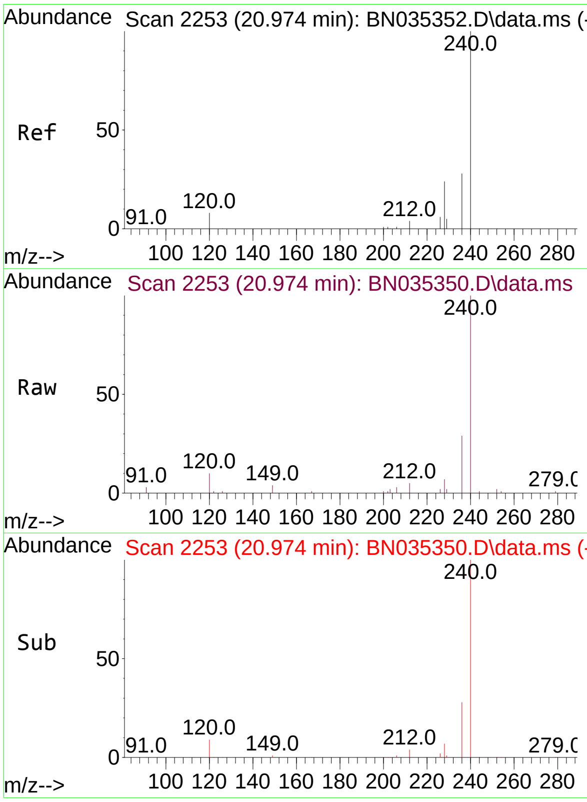

```
#27
Fluoranthene-d10
Concen:    0.098 ng
RT:  18.785 min  Scan# 18
Delta R.T.  0.000 min
Lab File:   BN035350.D
Acq: 27 Nov 2024  15:34

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
```






```
#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
```

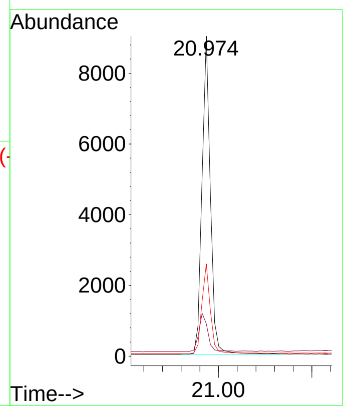




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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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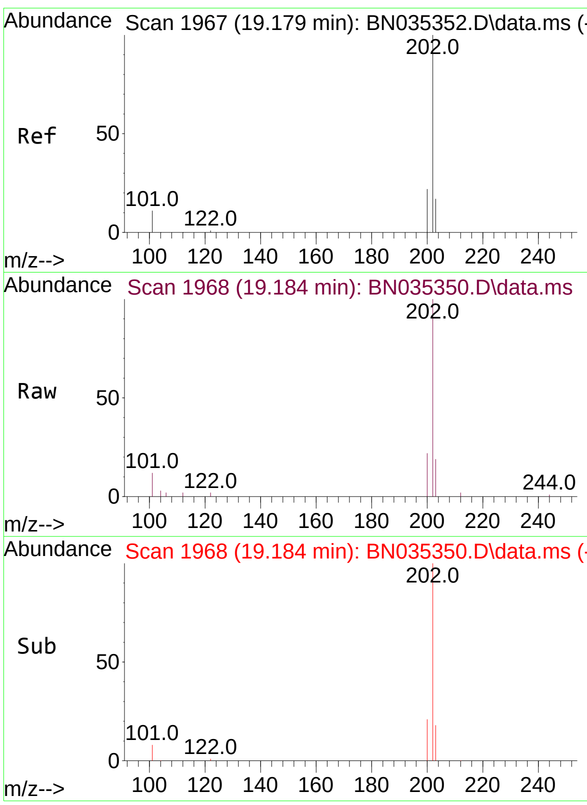
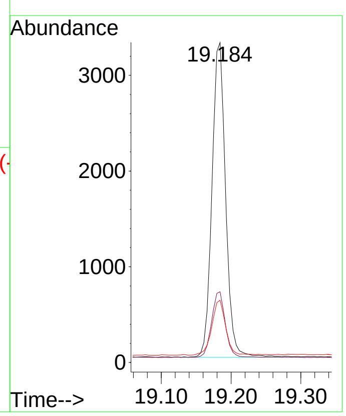
Supervised By :mohammad ahmed 12/03/2024

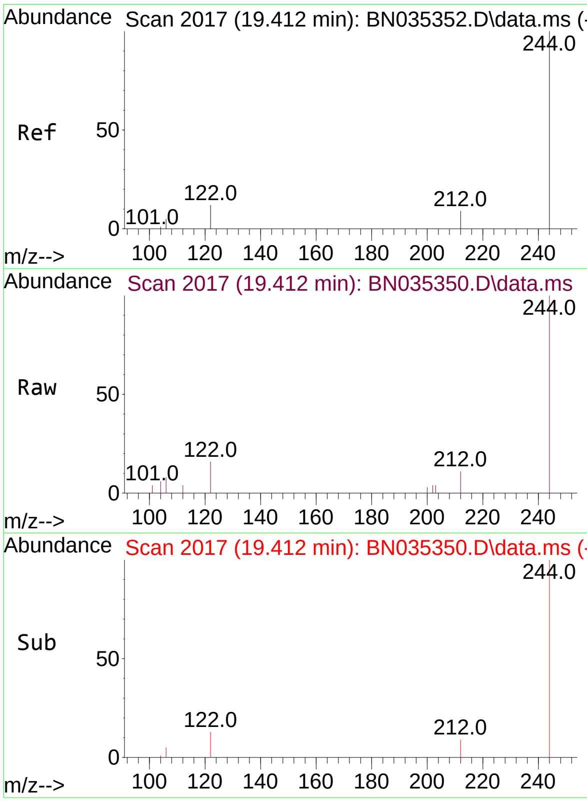


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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# 20
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#

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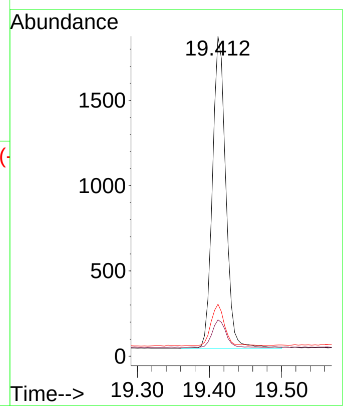
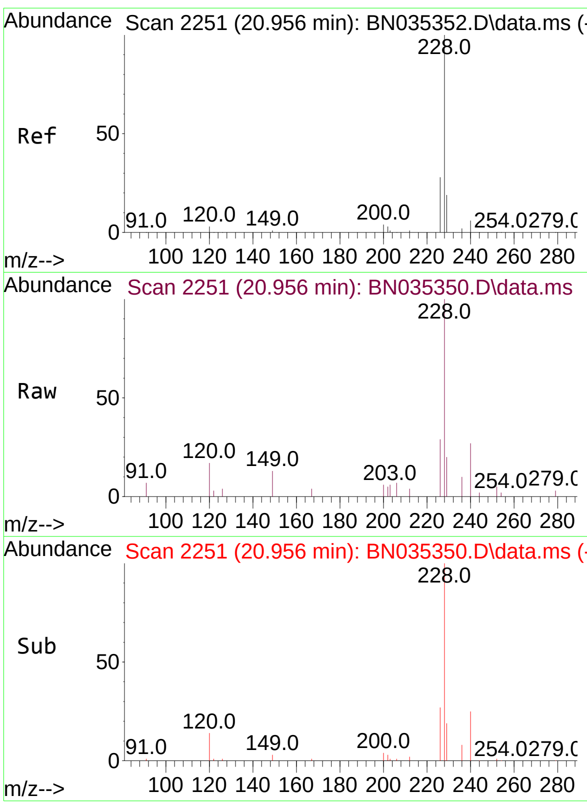
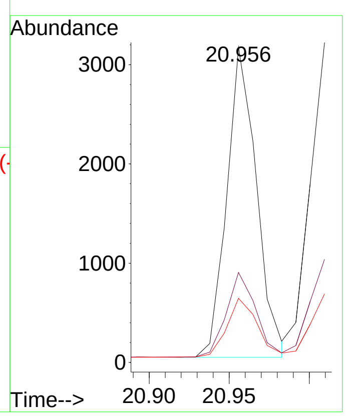


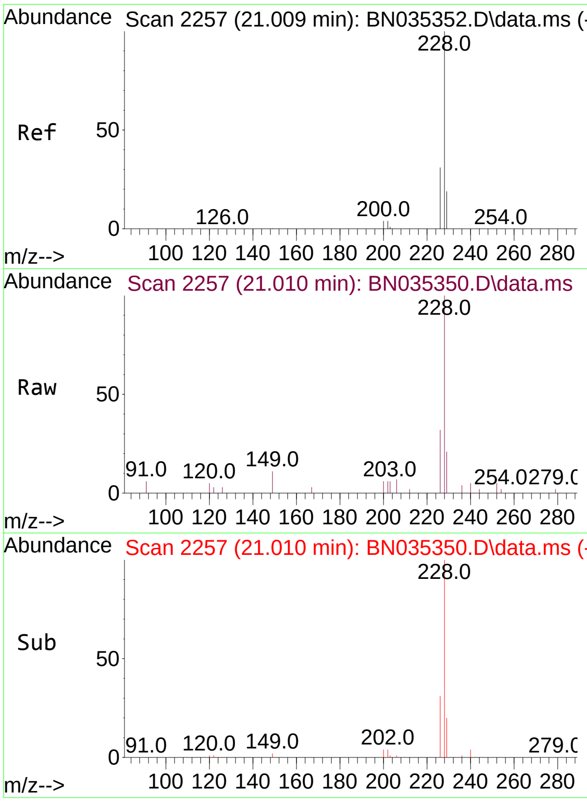


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

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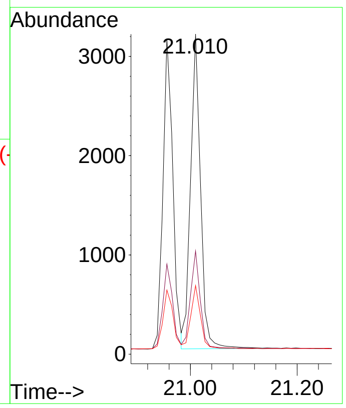
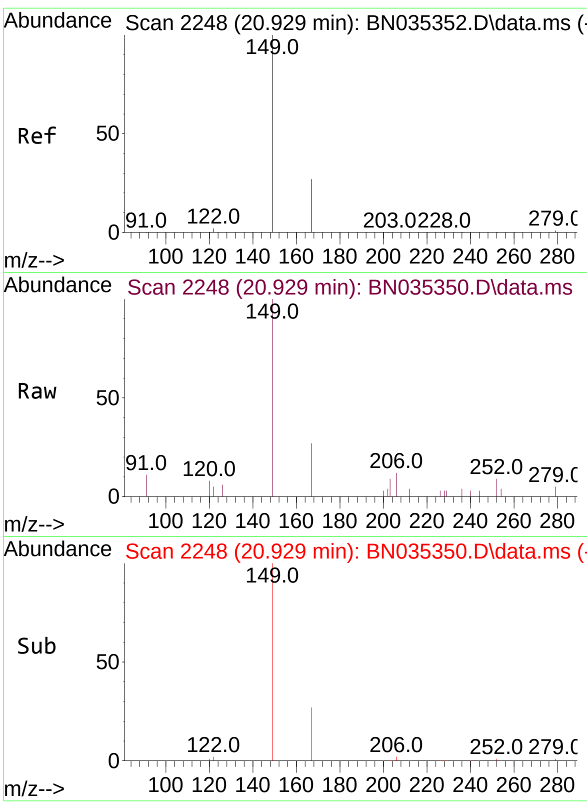
Supervised By :mohammad ahmed 12/03/2024

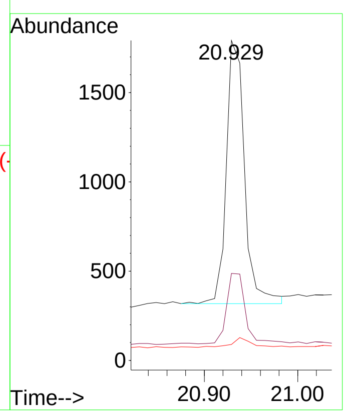


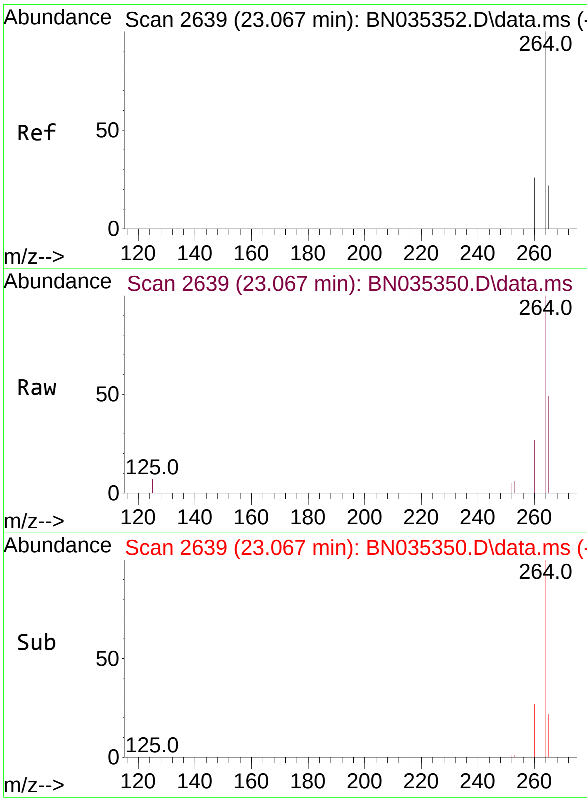


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

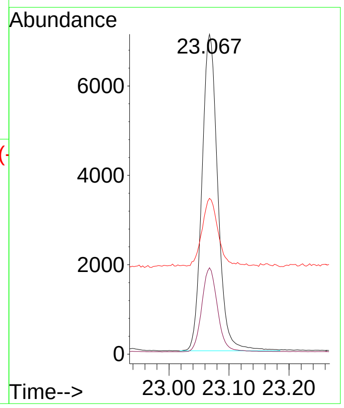
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

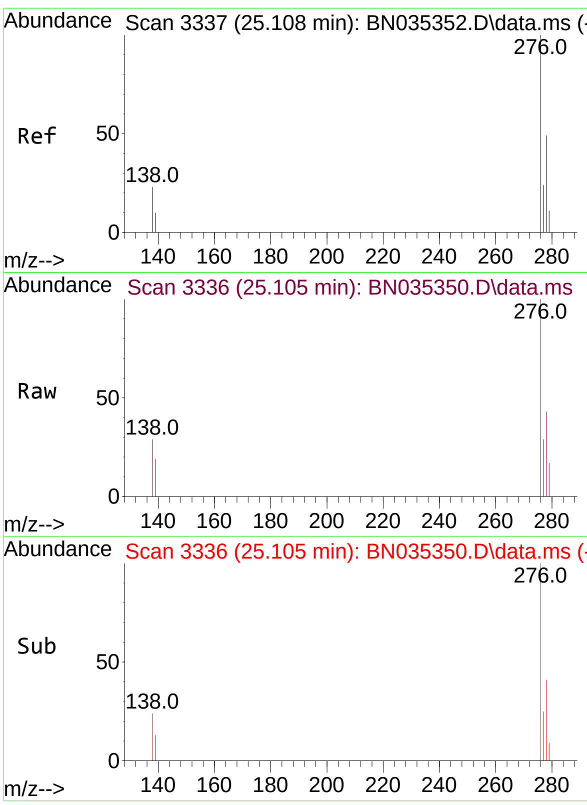
Tgt Ion:264 Resp: 1300

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

Manual Integrations
APPROVED

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

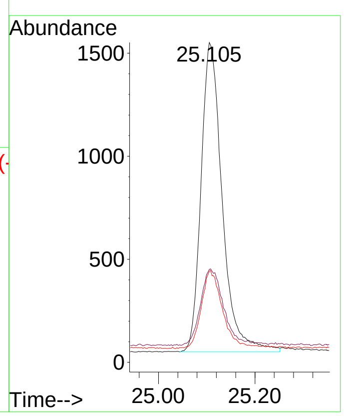




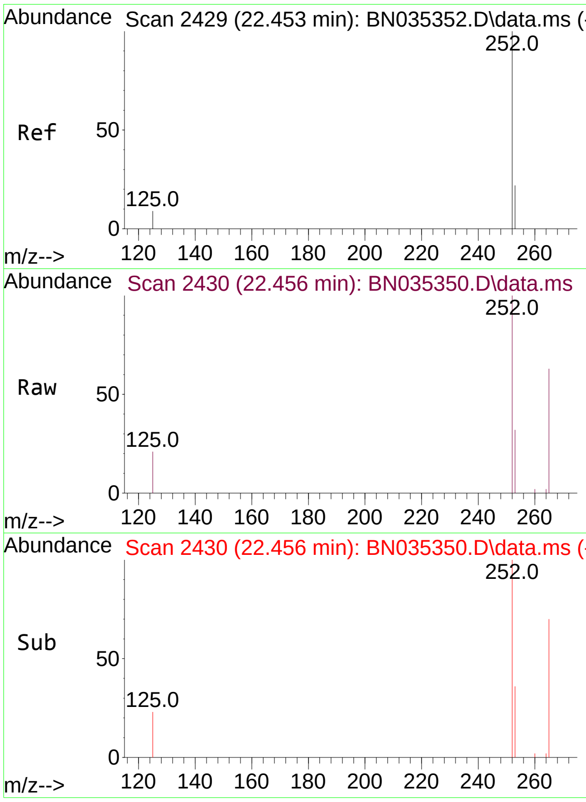
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



ICAL Form



#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

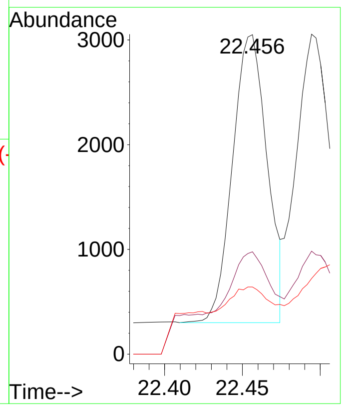
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

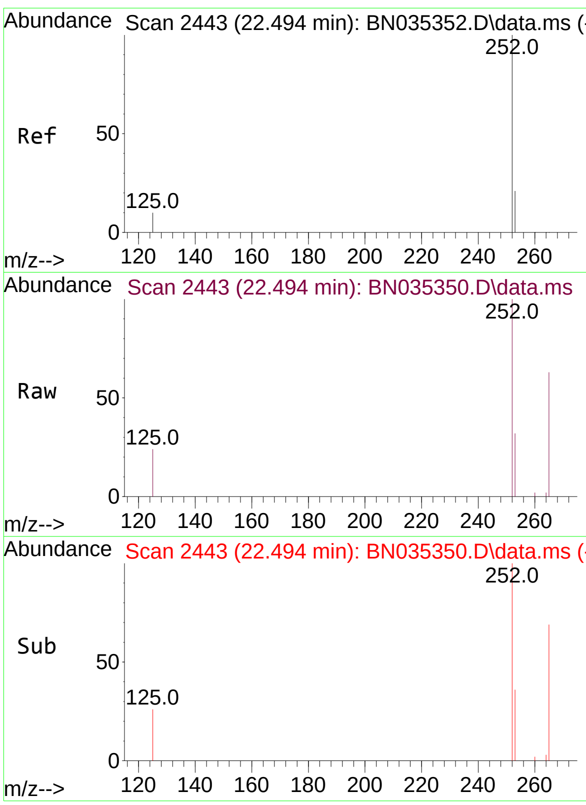
Tgt Ion:252 Resp: 424

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

Manual Integrations APPROVED

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

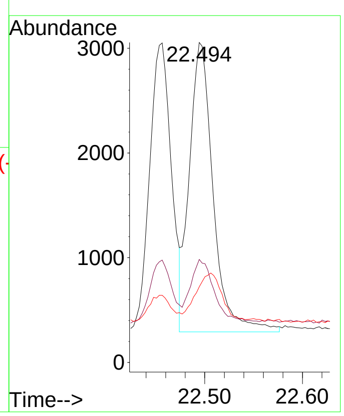


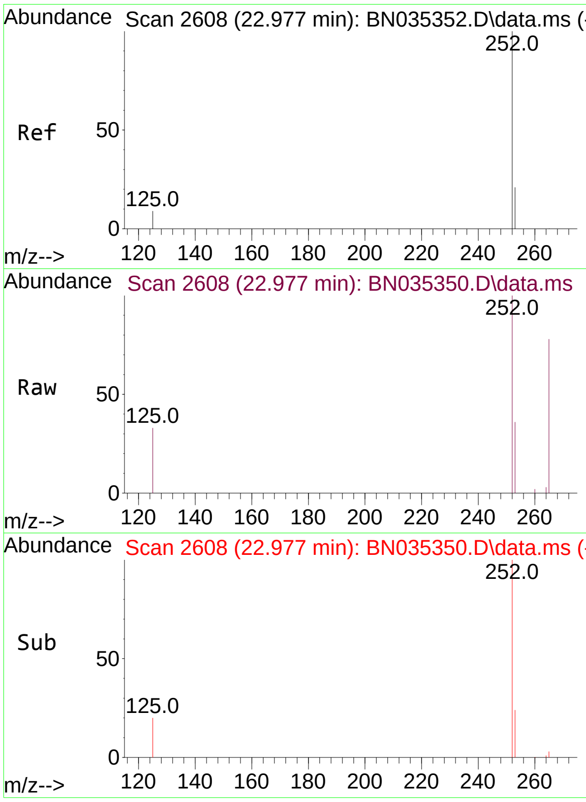


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#





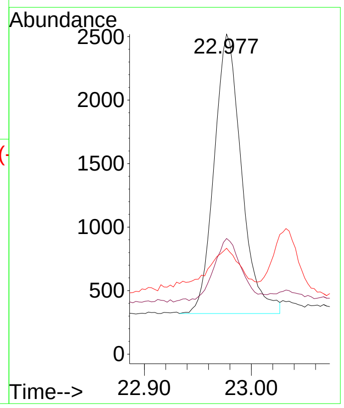
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

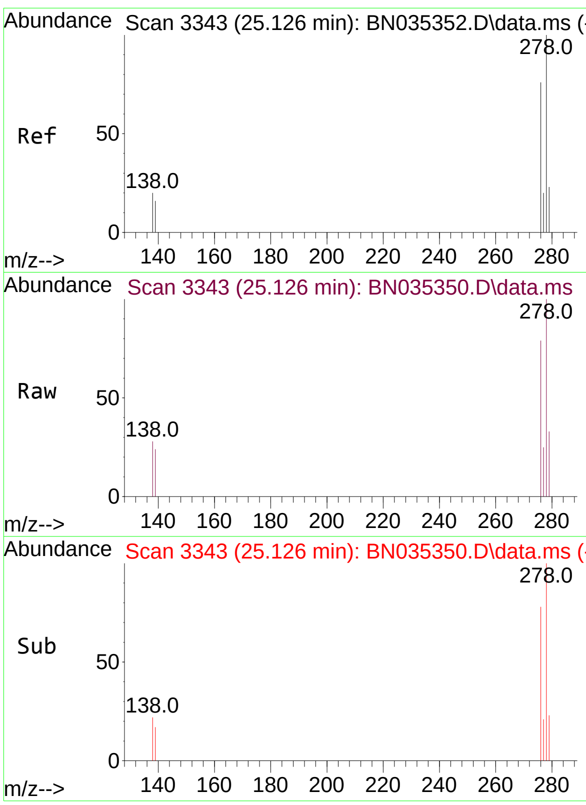
Tgt Ion:252 Resp: 391

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

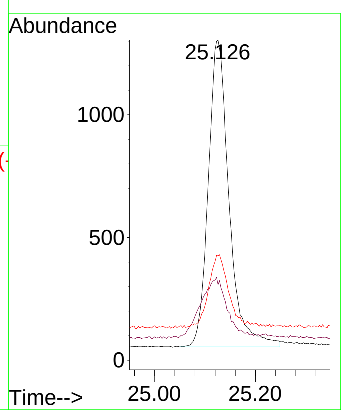


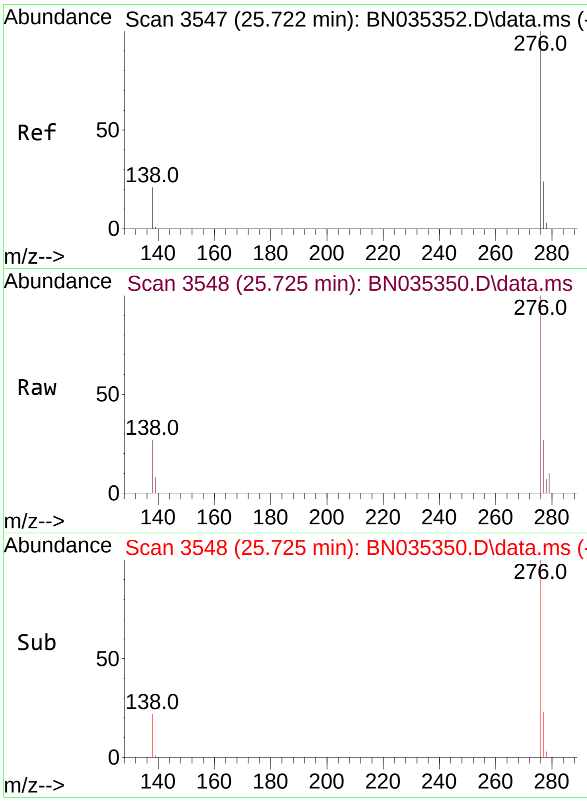


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

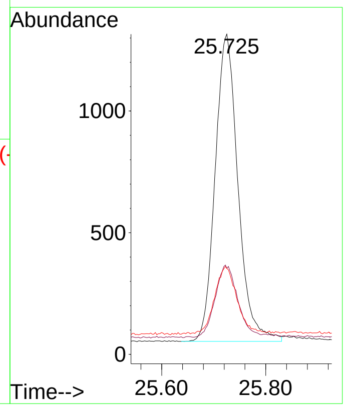




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

Quantitation Report (QT Reviewed)

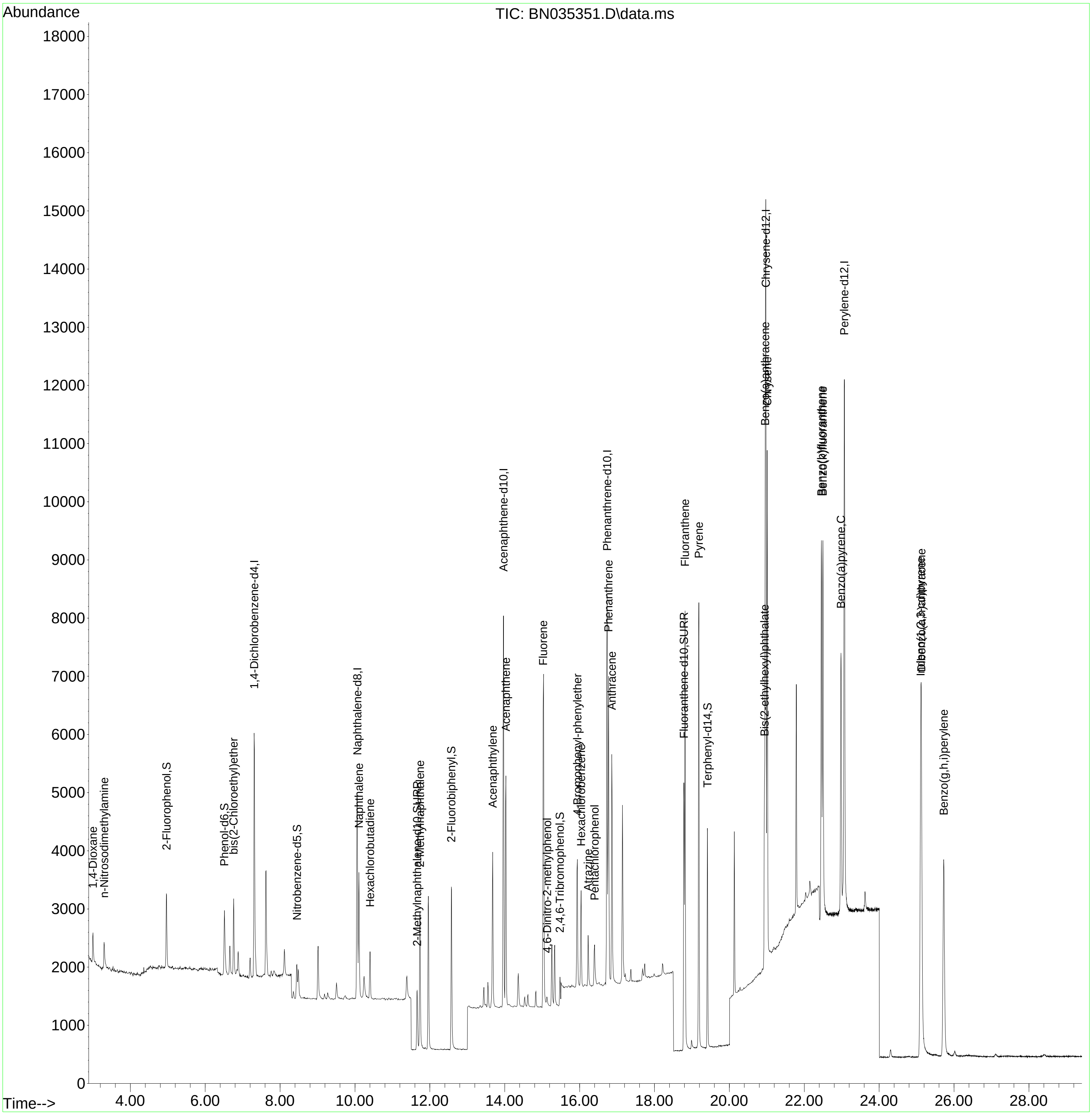
ICAL Form

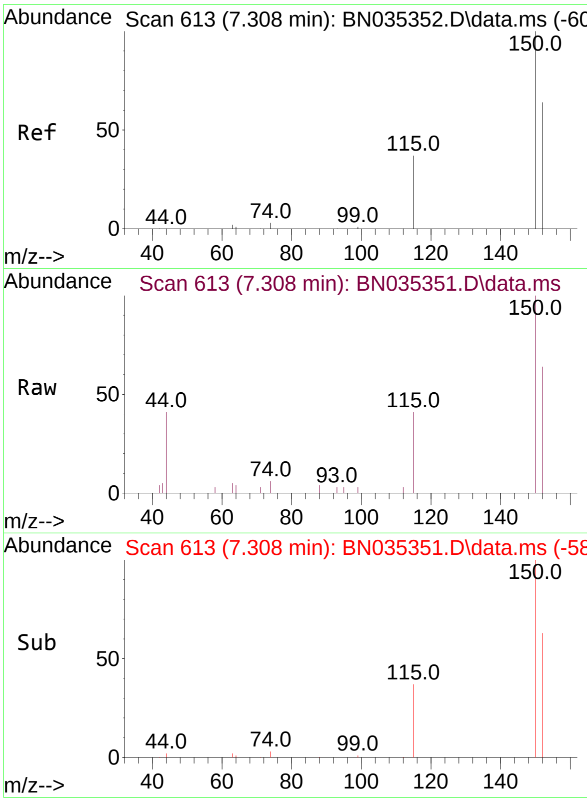
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

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

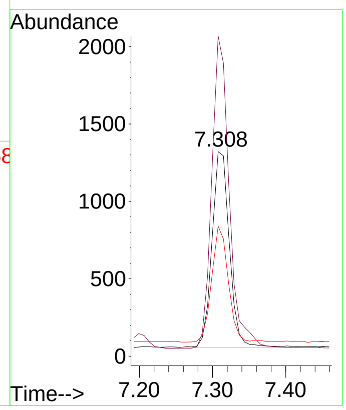




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

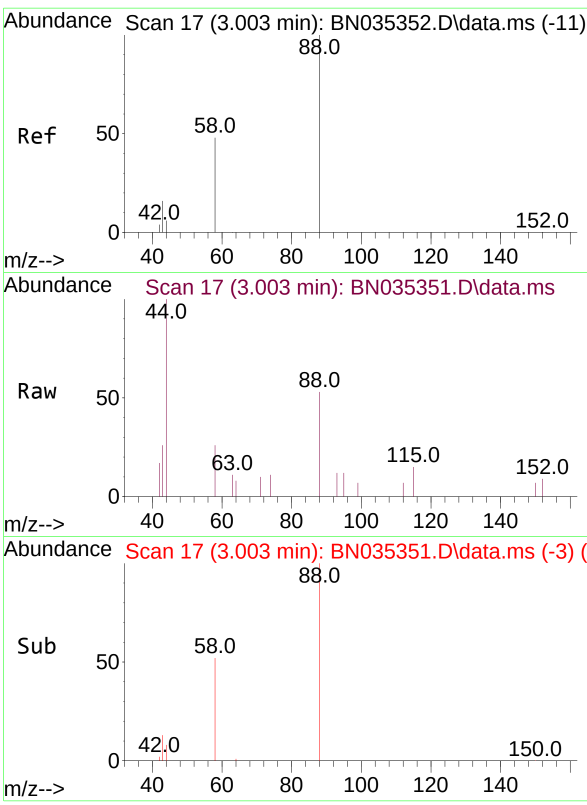
Tgt Ion:152 Resp: 208

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

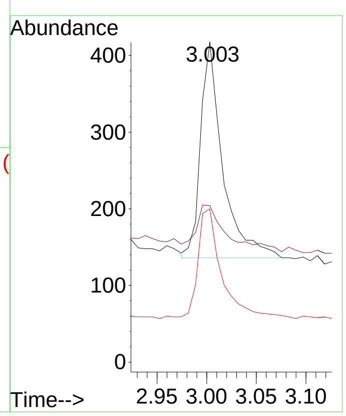
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



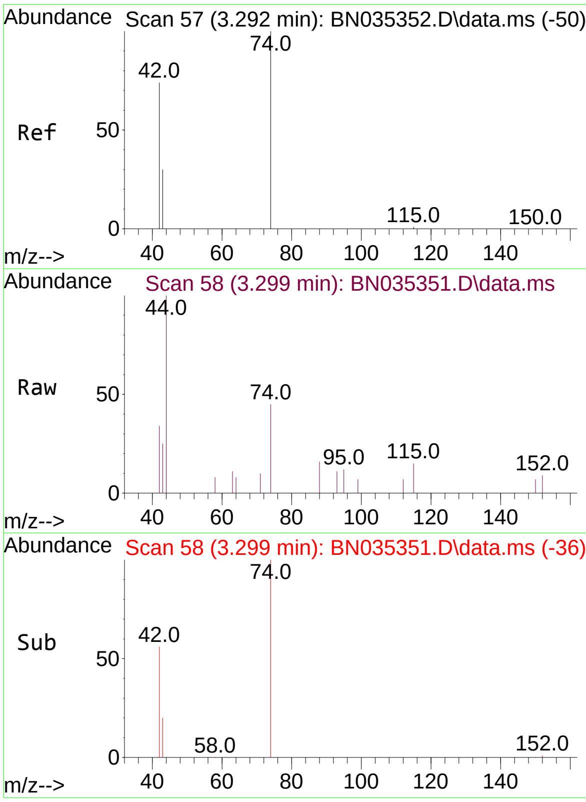
#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



ICAL Form



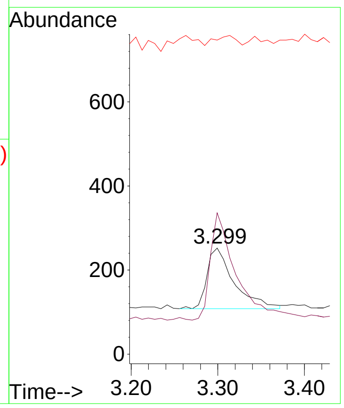
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

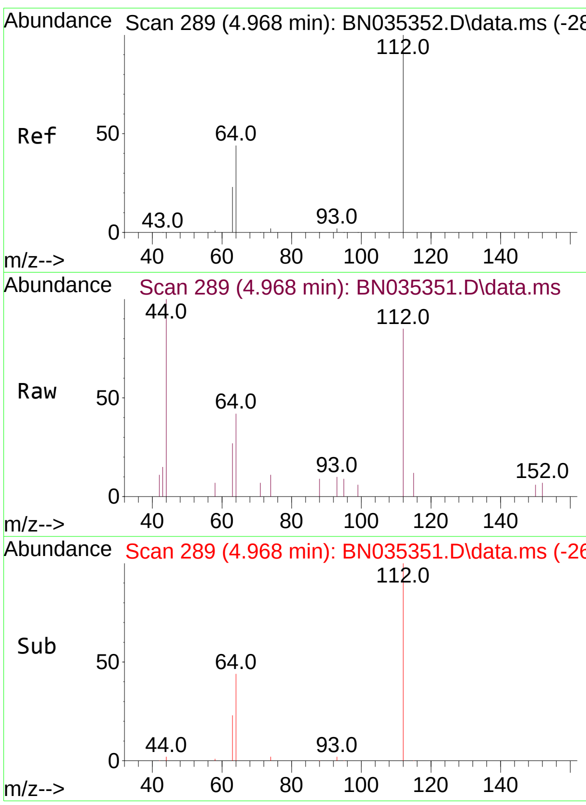
Tgt Ion: 42 Resp: 31

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

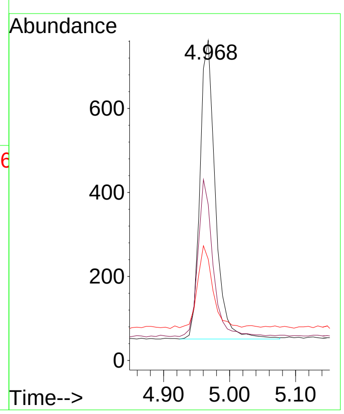




#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

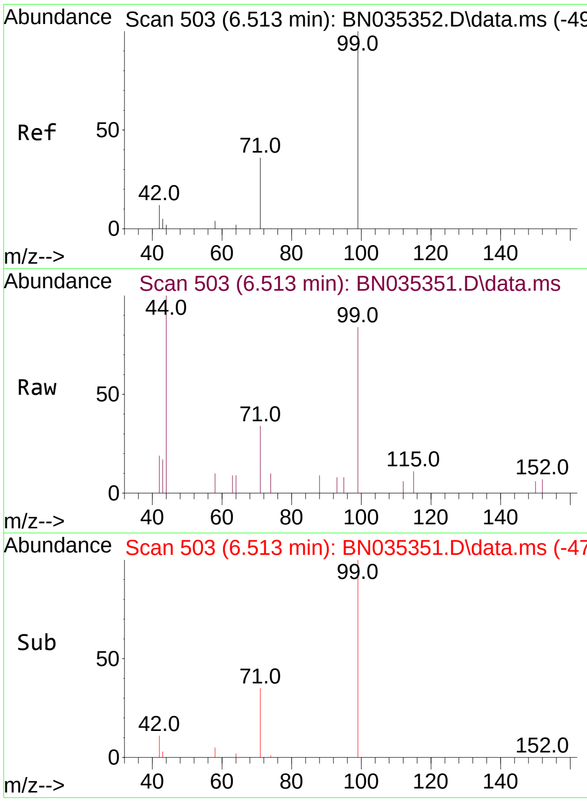


ICAL Form

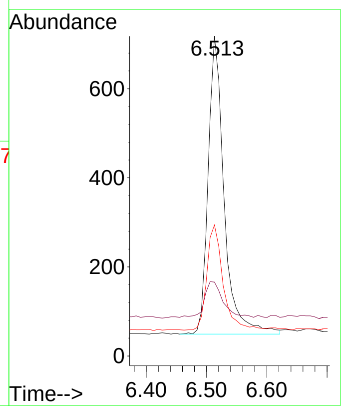
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

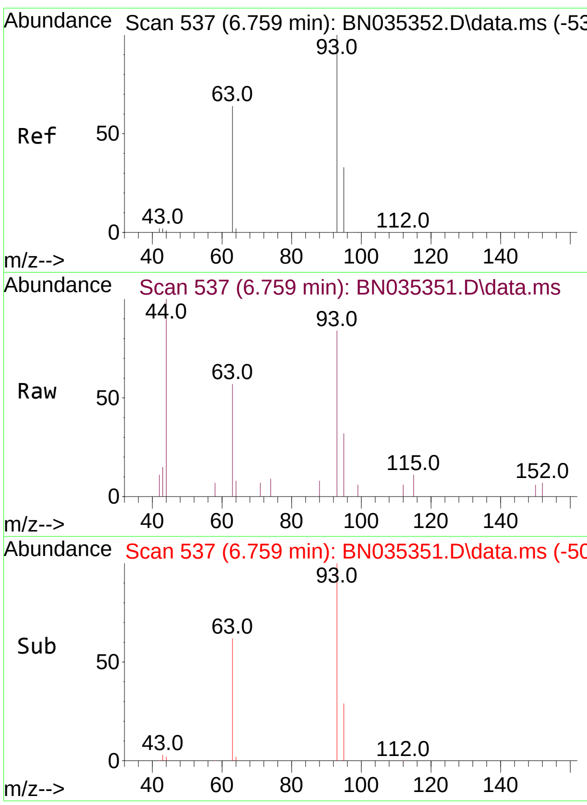
Manual Integrations
APPROVED

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

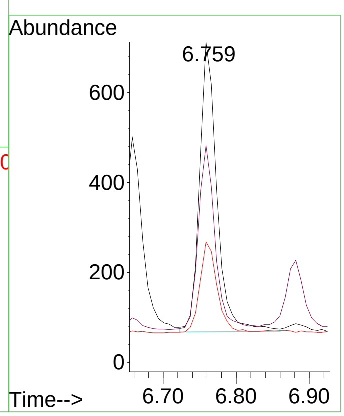


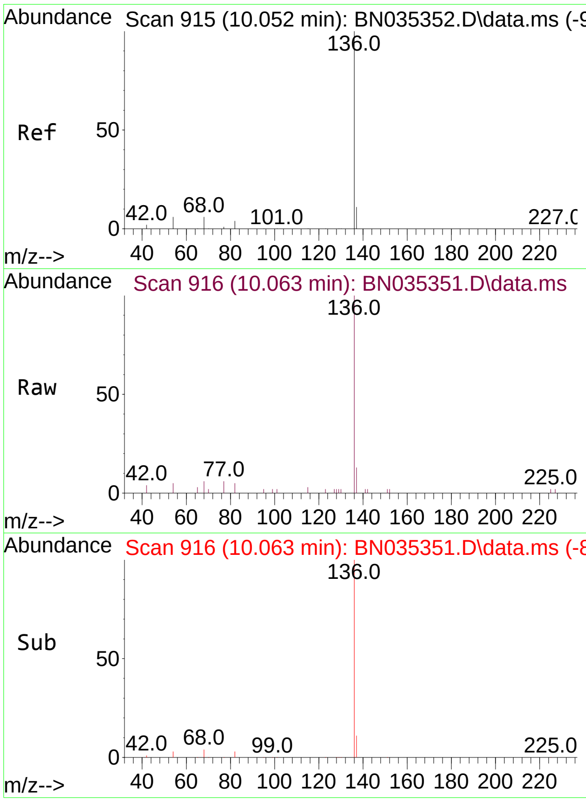

```
#5
Phenol-d6
Concen:    0.186 ng
RT:   6.513 min  Scan# 50
Delta R.T.  -0.000 min
Lab File:   BN035351.D
Acq: 27 Nov 2024  16:10

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
```






```
#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
```



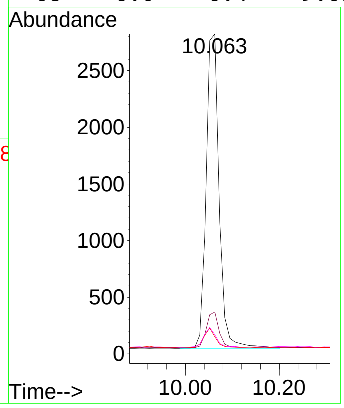


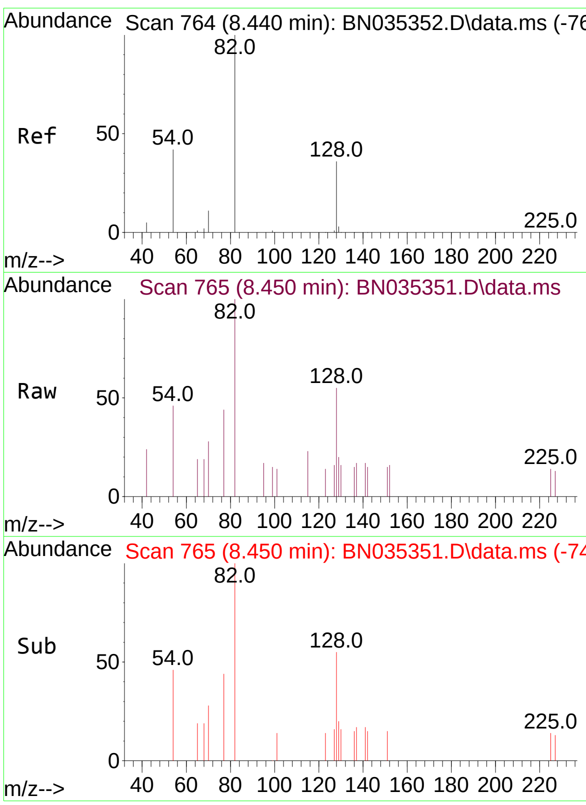

```
#7
Naphthalene-d8
Concen:    0.400 ng
RT:  10.063 min  Scan# 9
Delta R.T.  0.011 min
Lab File:   BN035351.D
Acq: 27 Nov 2024  16:10

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

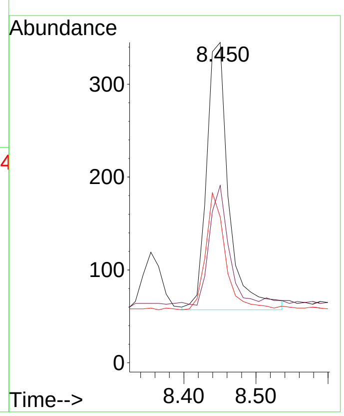
Manual Integrations APPROVED

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

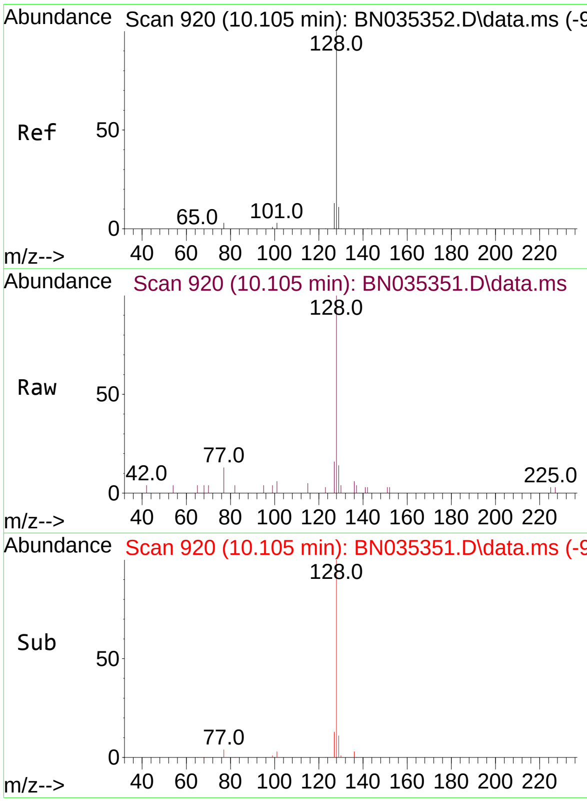





```
#8
Nitrobenzene-d5
Concen:    0.133 ng m
RT:   8.450 min  Scan# 765
Delta R.T.  0.011 min
Lab File:   BN035351.D
Acq: 27 Nov 2024  16:10

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
```



ICAL Form



#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

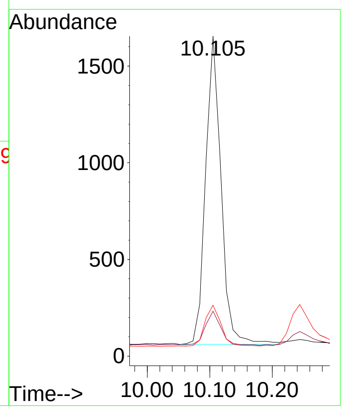
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

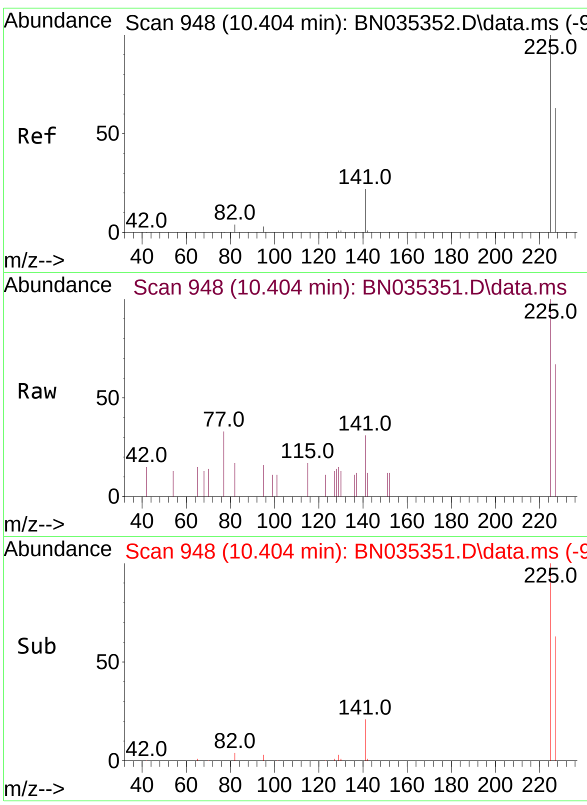
Tgt Ion:128 Resp: 274

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

Manual Integrations APPROVED

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

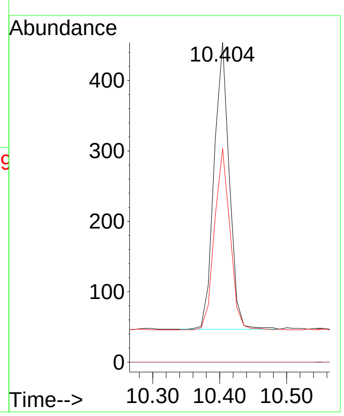




#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



ICAL Form

Instrument :
BNA_N
ClientSampleId :
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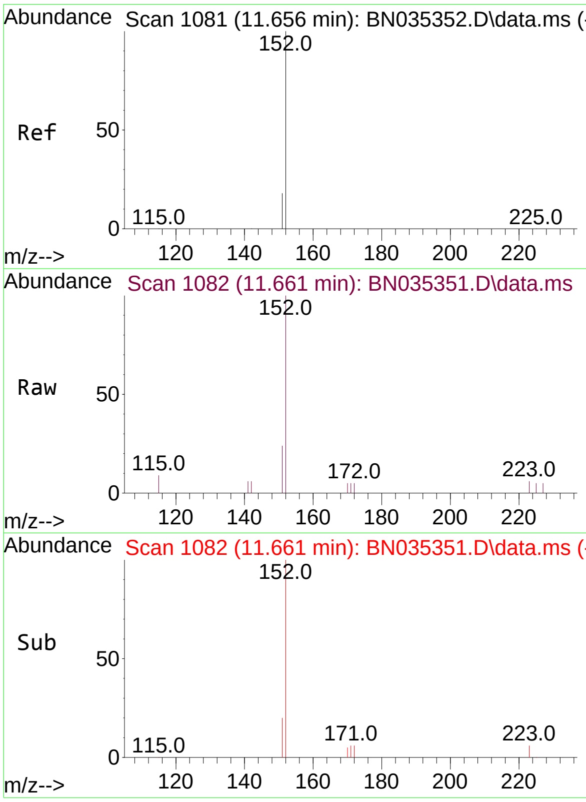
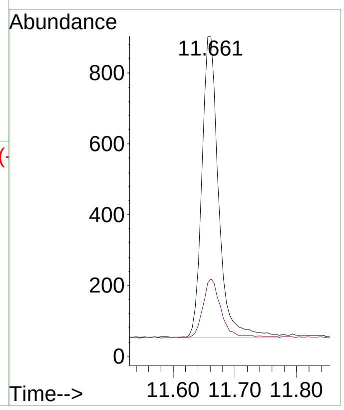
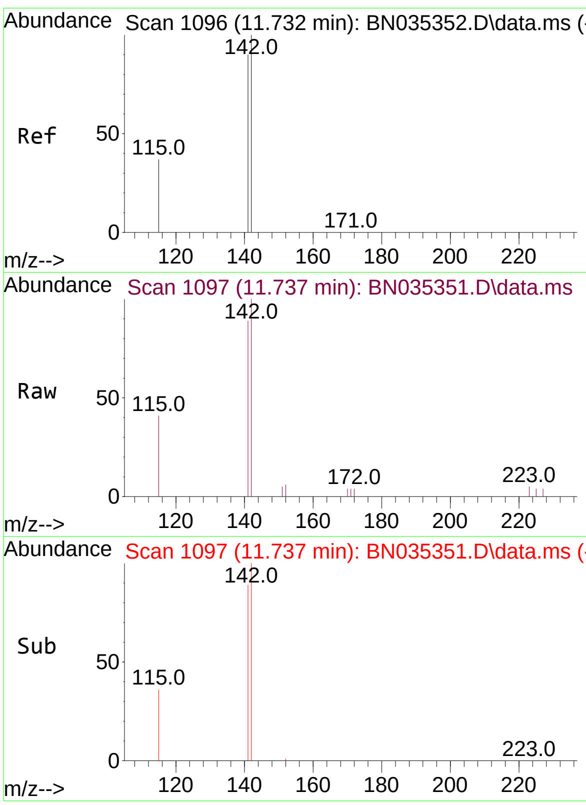


#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

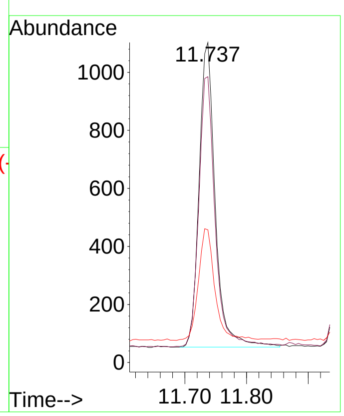




#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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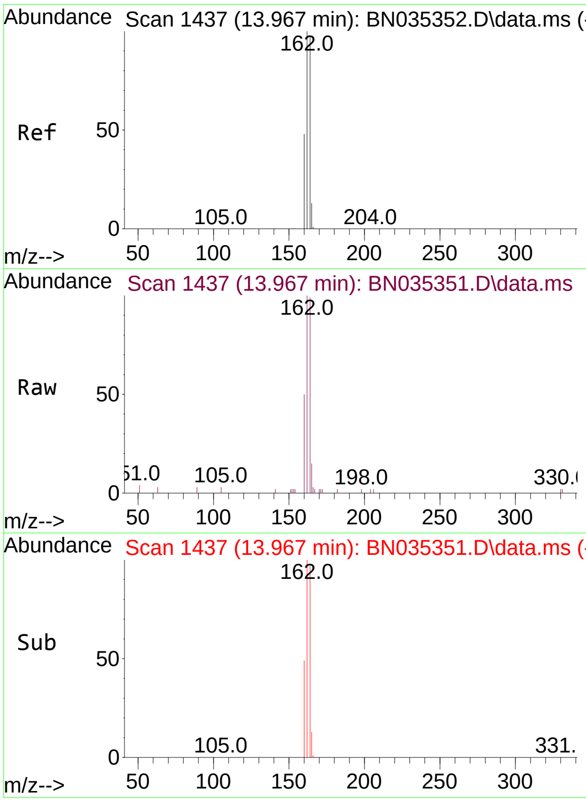

#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 3808

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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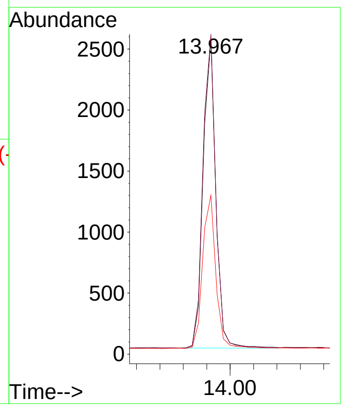
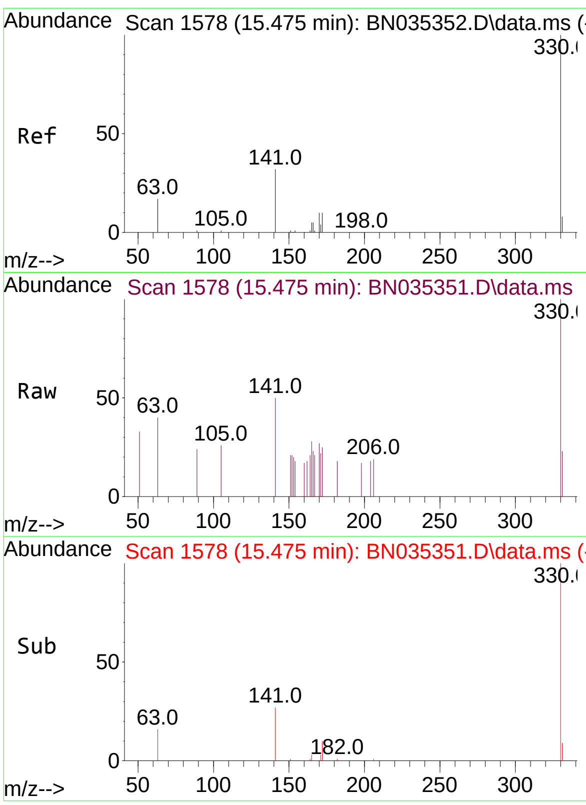
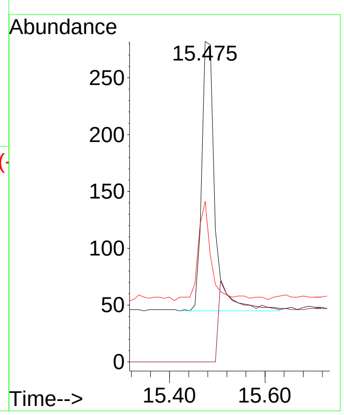




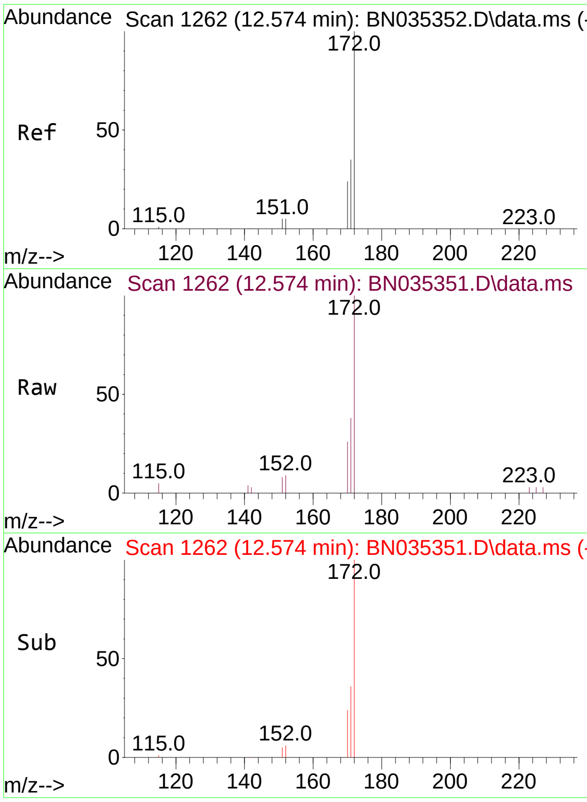
#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



ICAL Form



#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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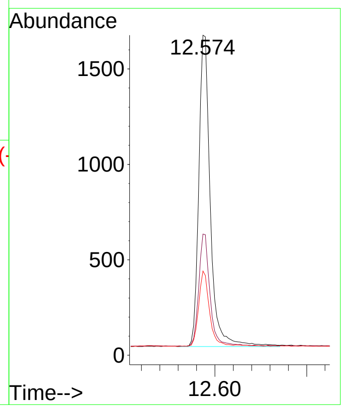
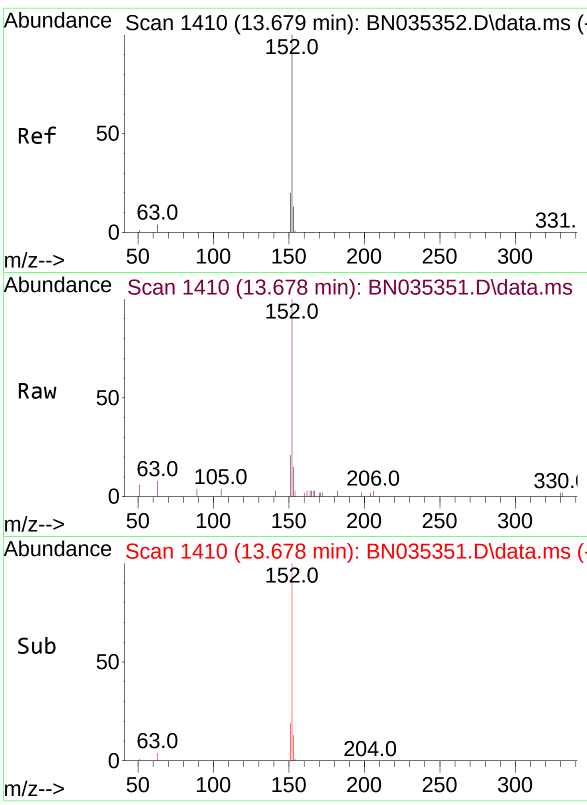
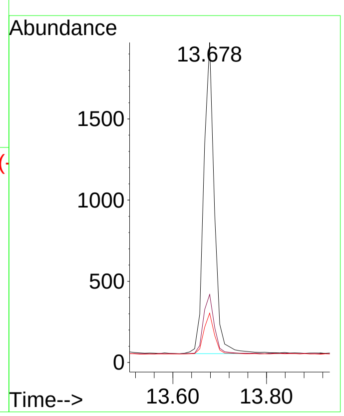




#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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Instrument :
BNA_N
ClientSampleId :
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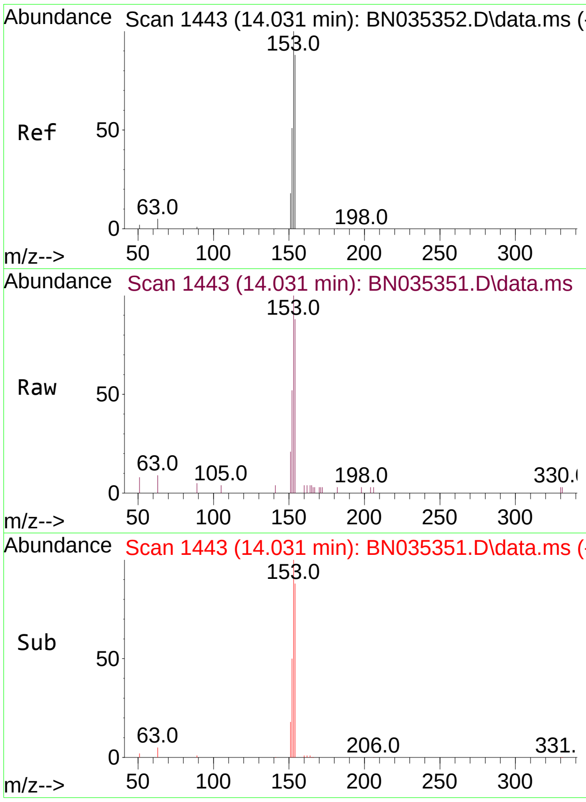
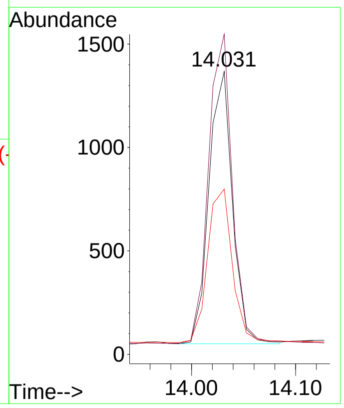
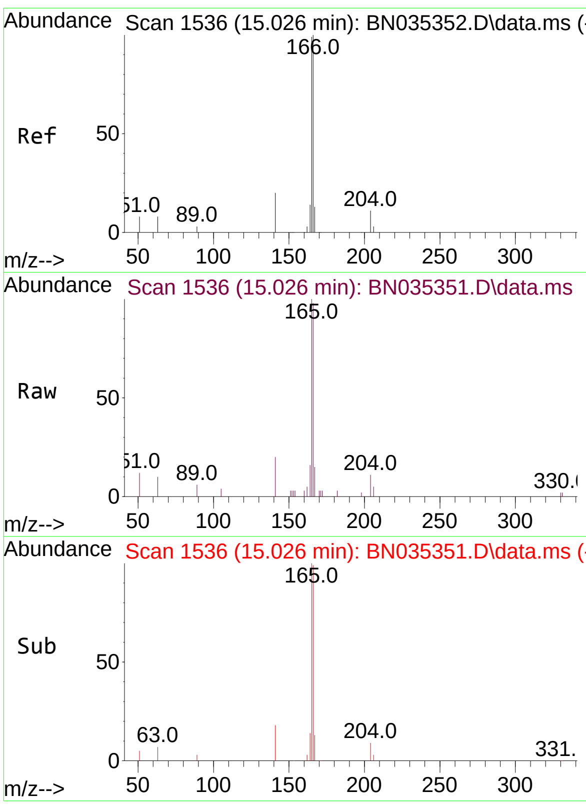


#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

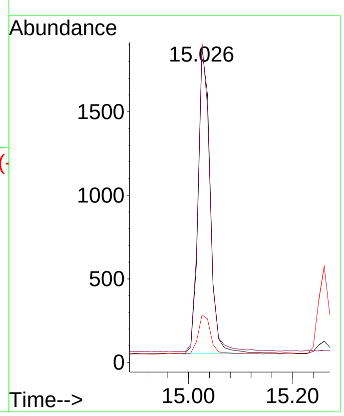


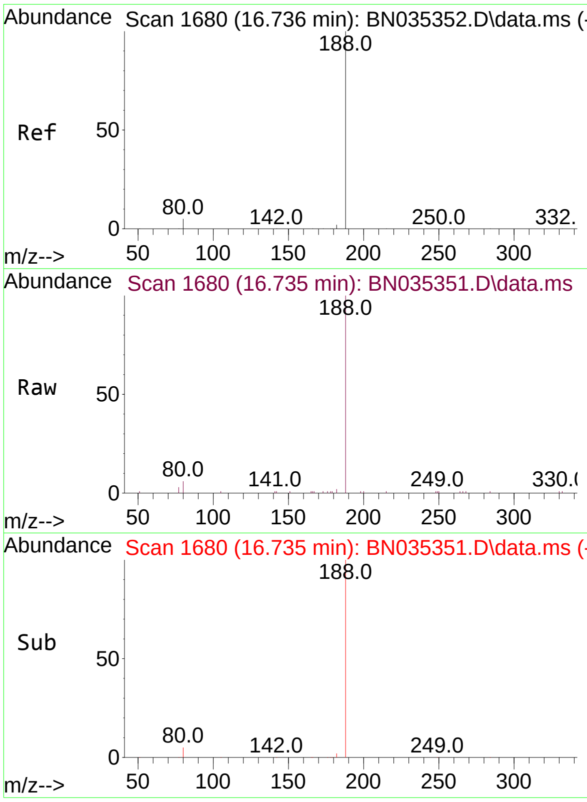


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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: 990

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

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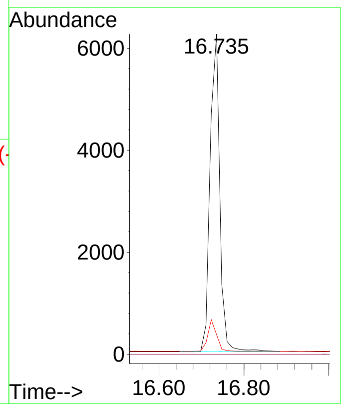
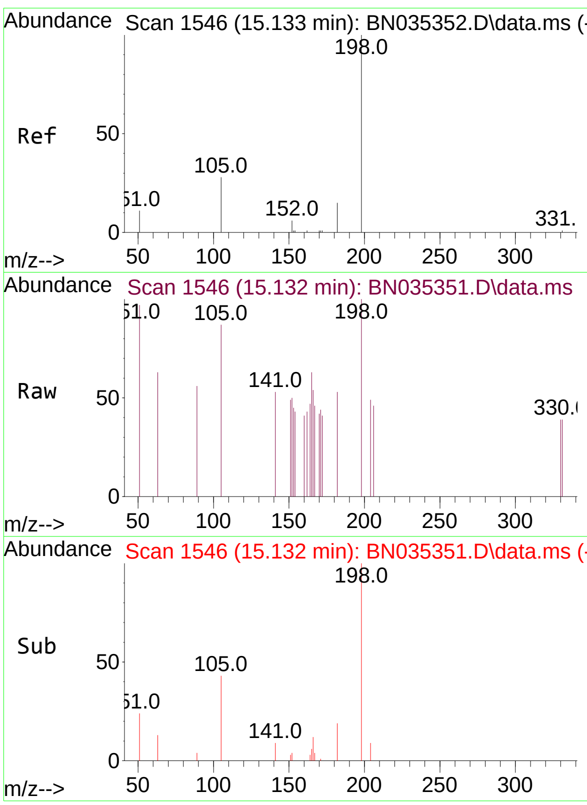
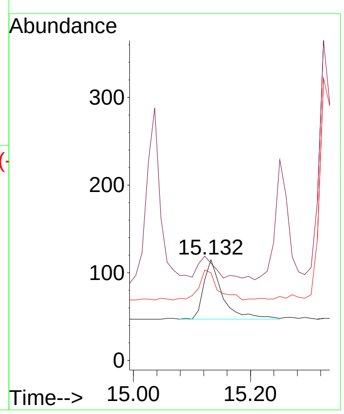


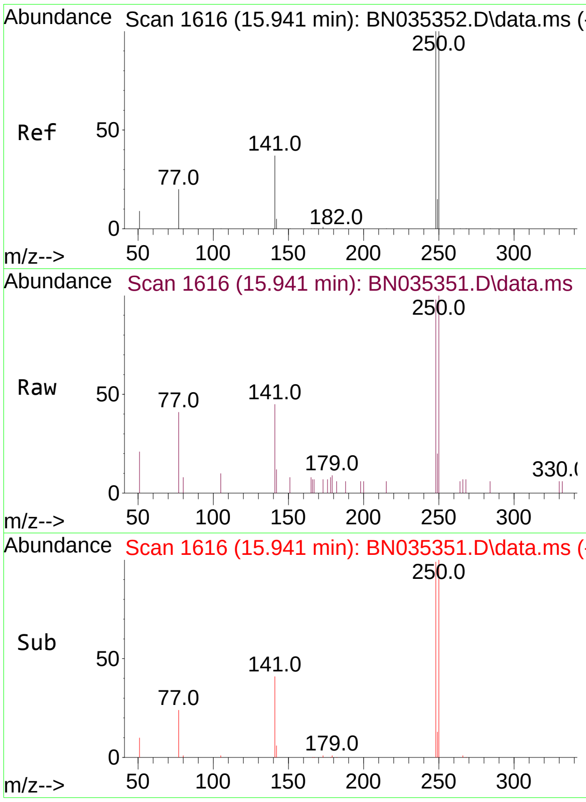


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

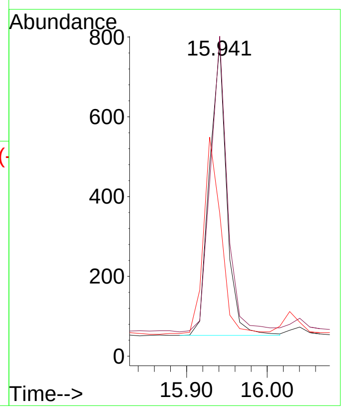




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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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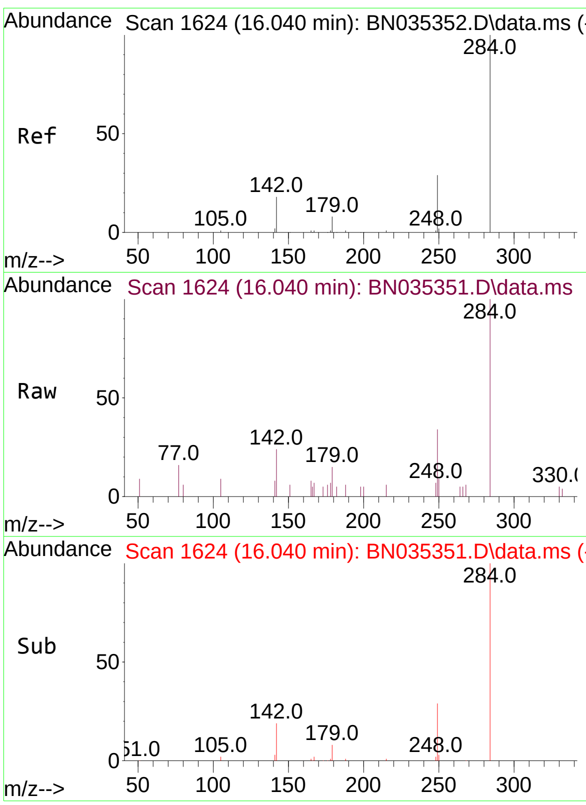
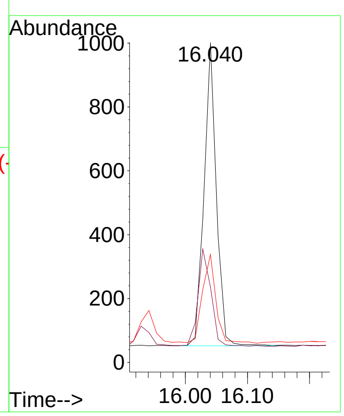


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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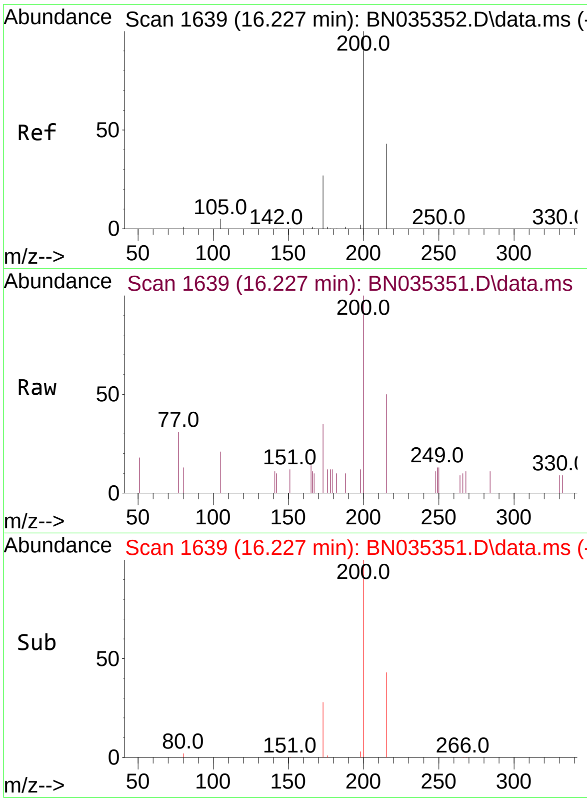

#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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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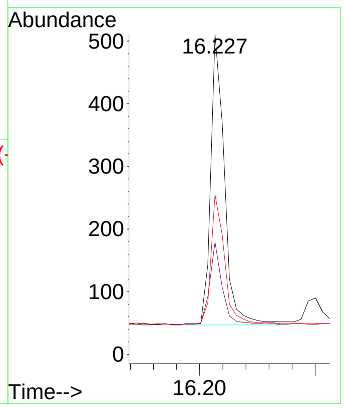
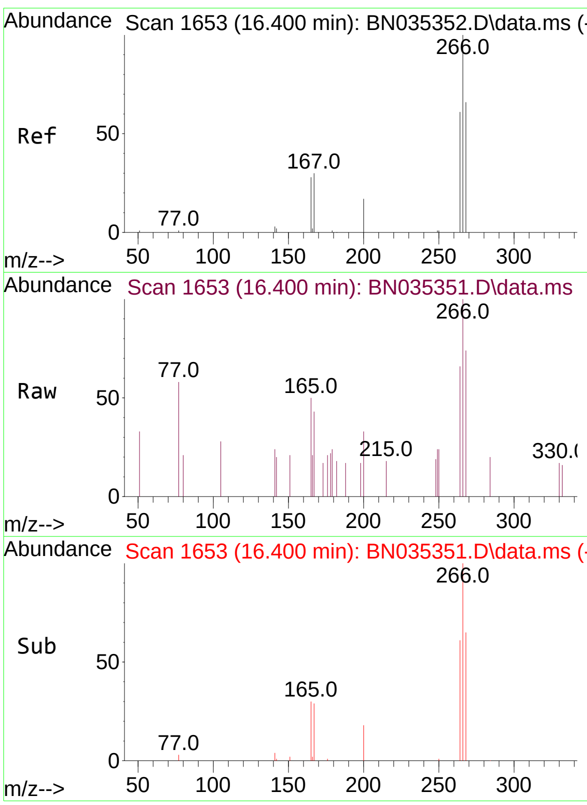
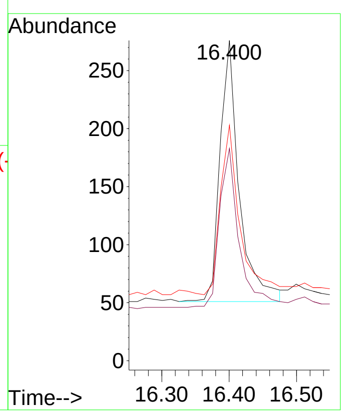


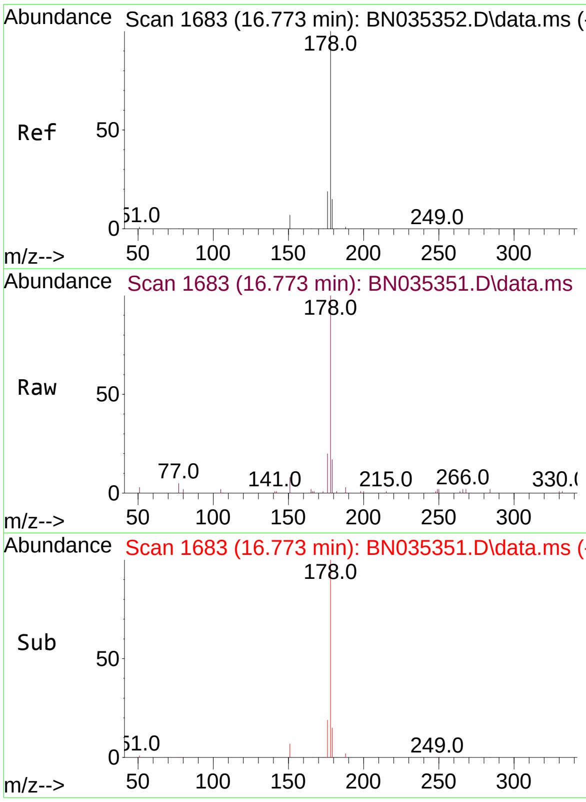


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

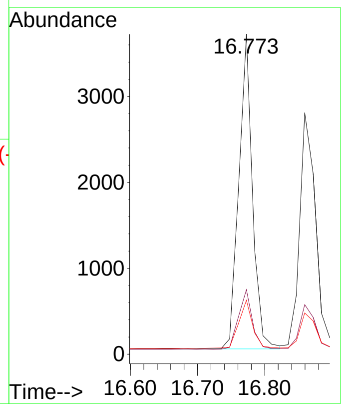




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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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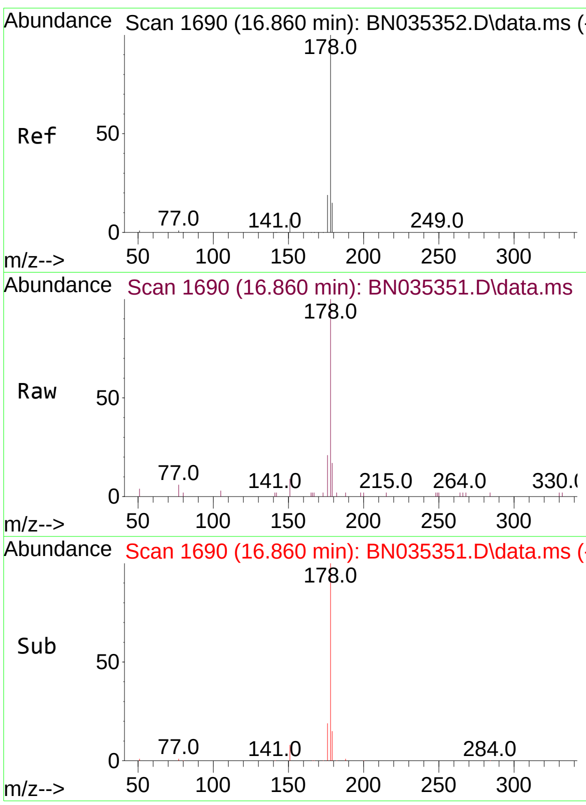
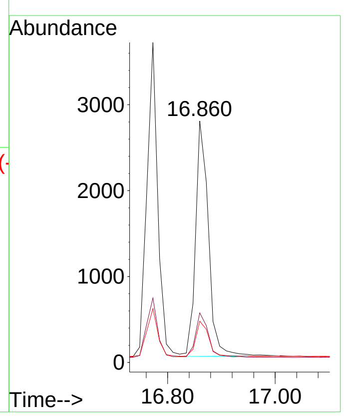


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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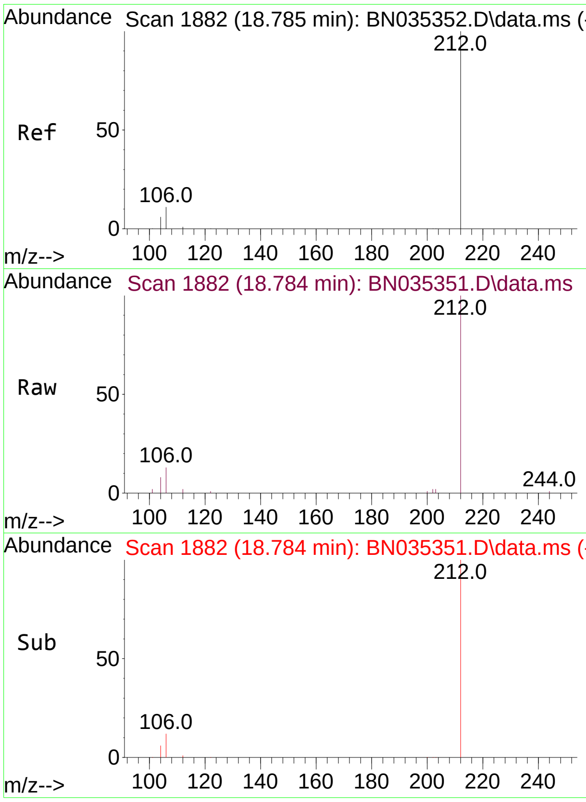

#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

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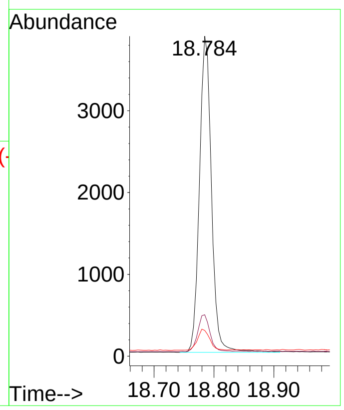
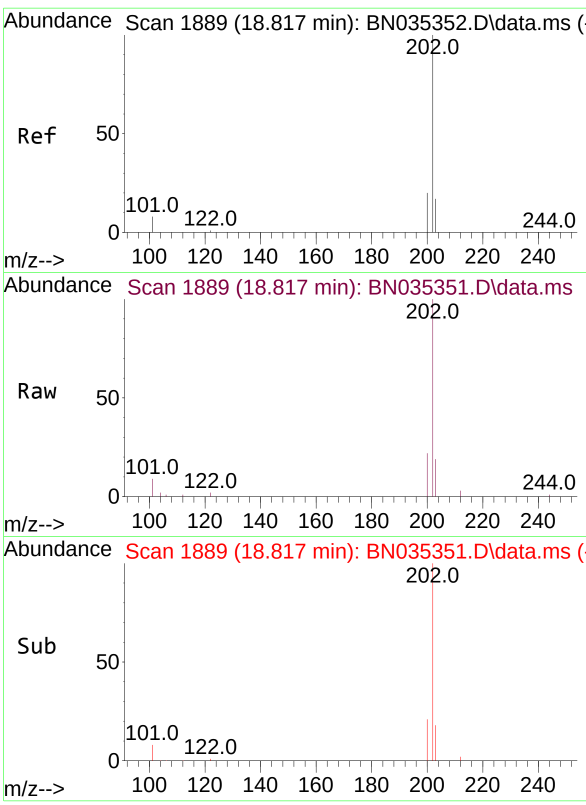
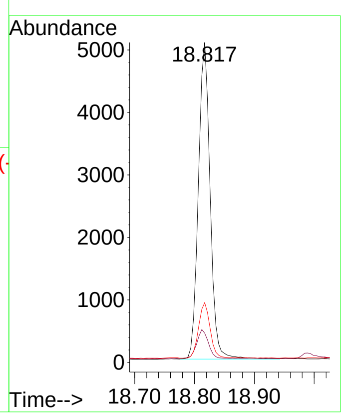




#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



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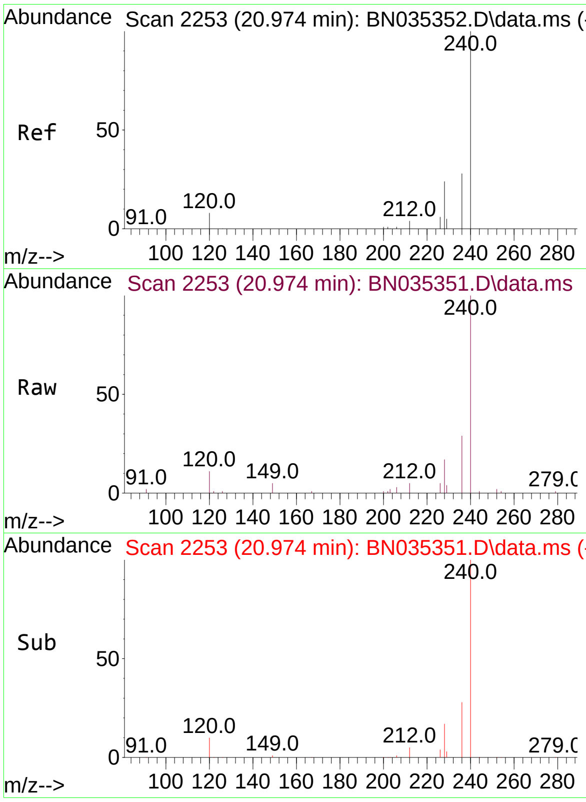

#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

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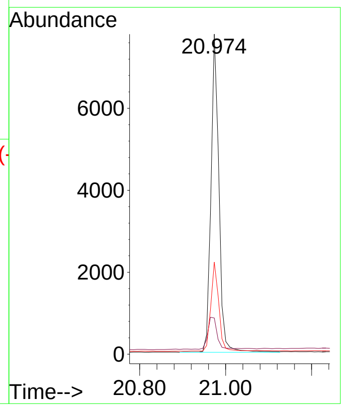
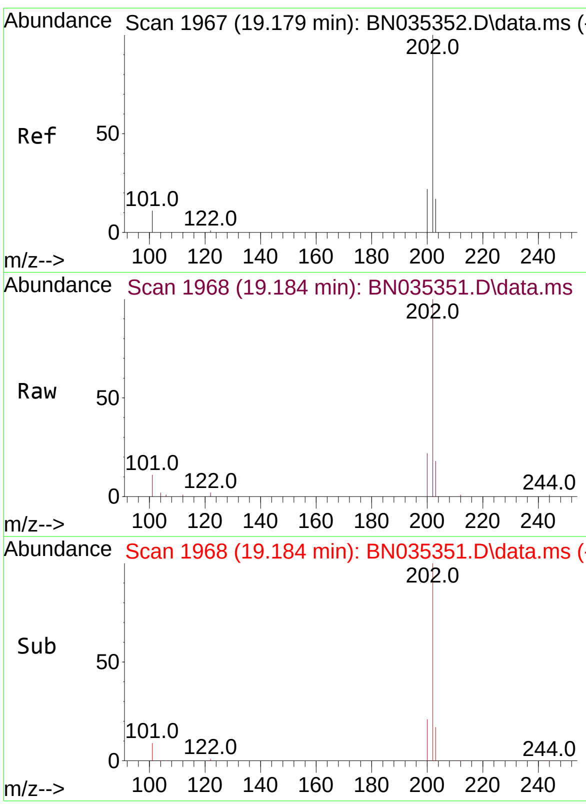
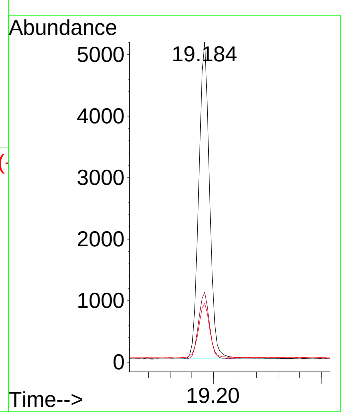


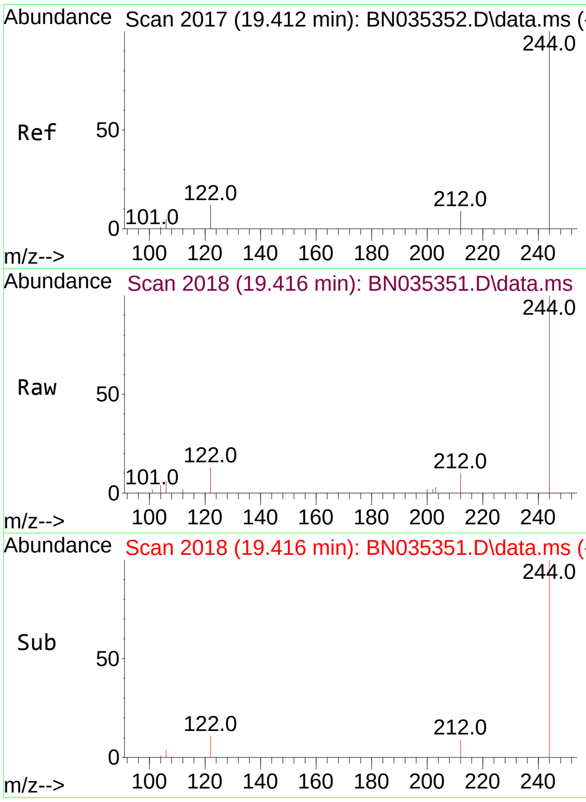


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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# 20
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

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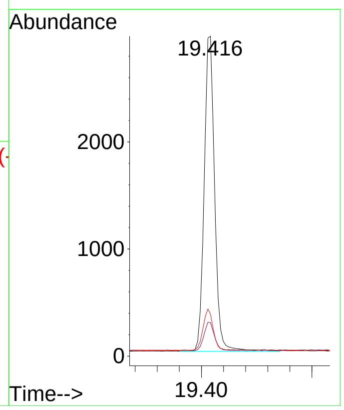
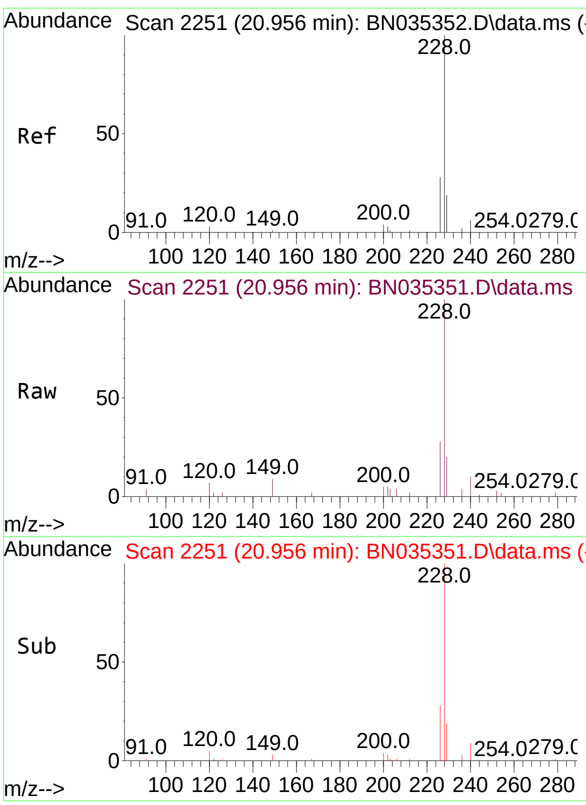
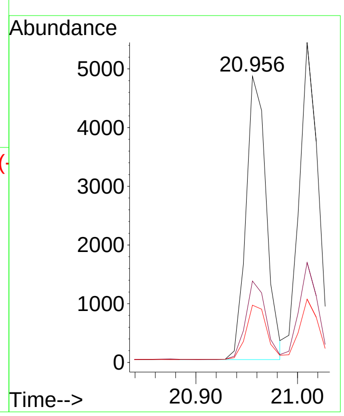




#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

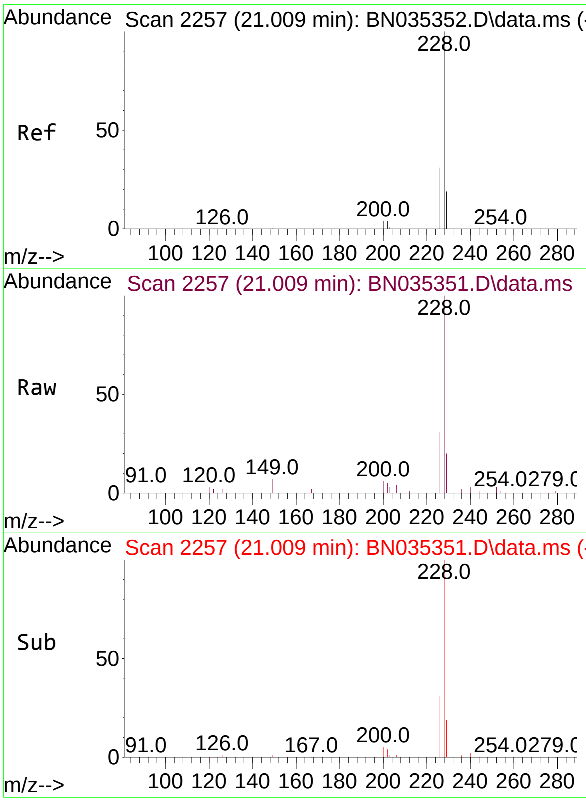
Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

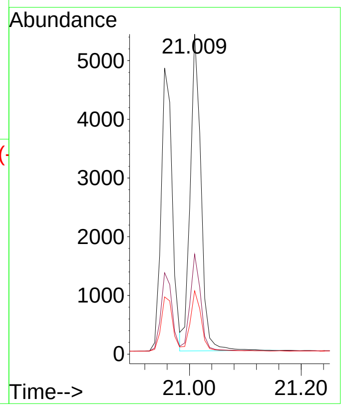
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

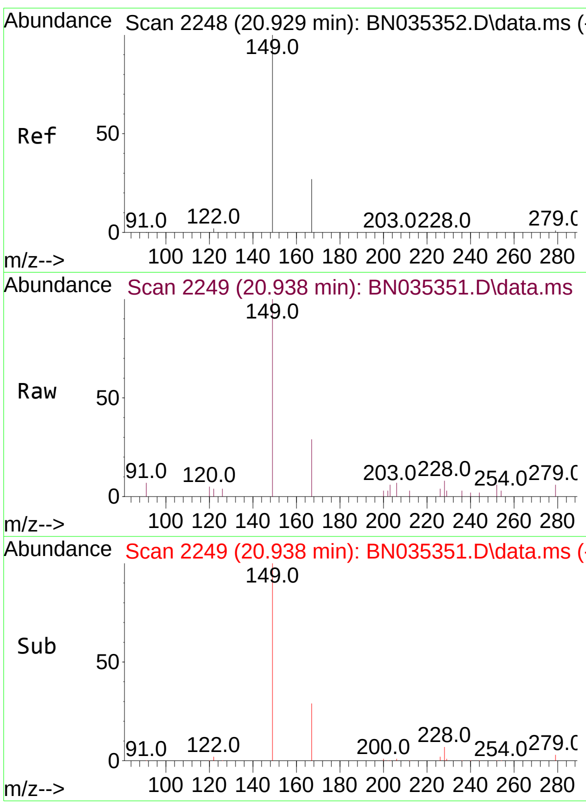


#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

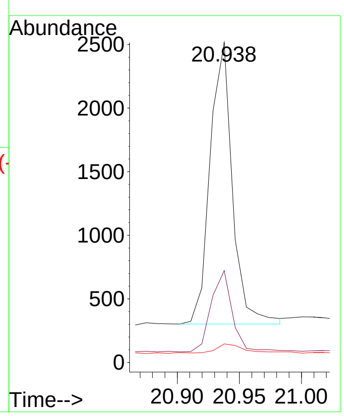


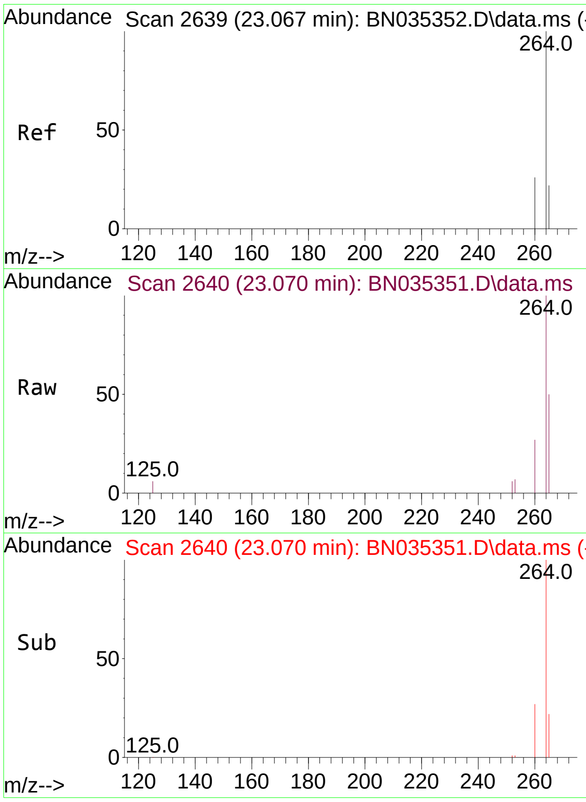


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#





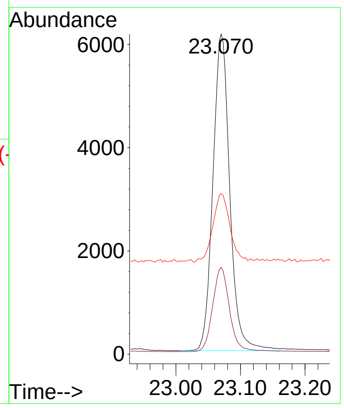
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

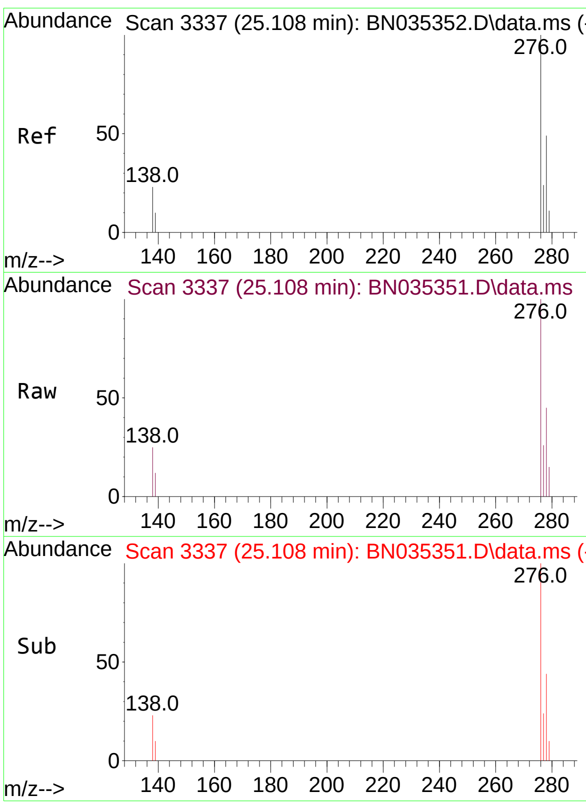
Tgt Ion:264 Resp: 1115

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

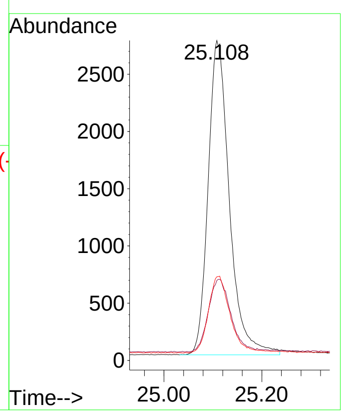


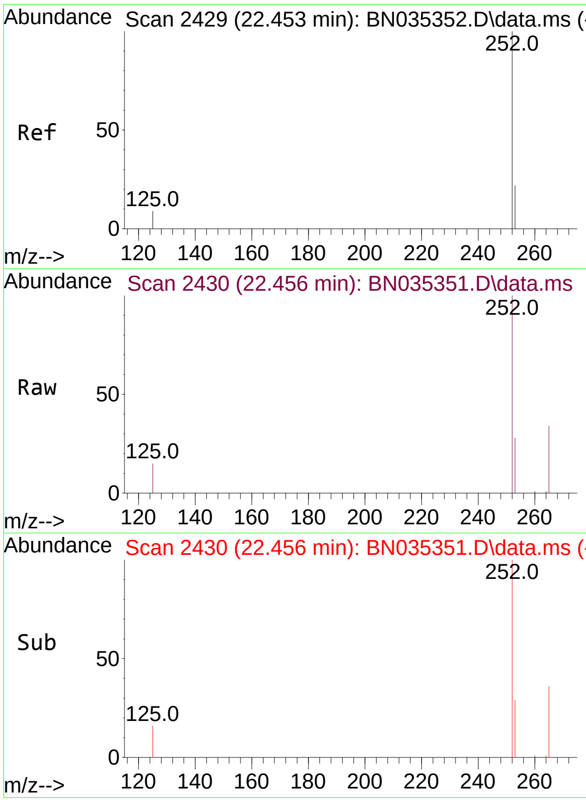


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

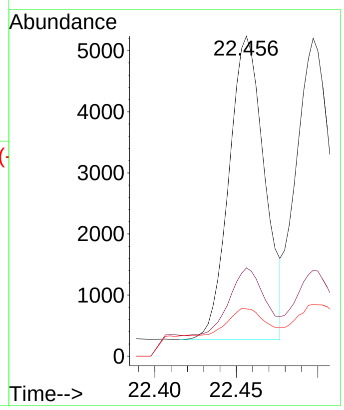
Tgt Ion:252 Resp: 752

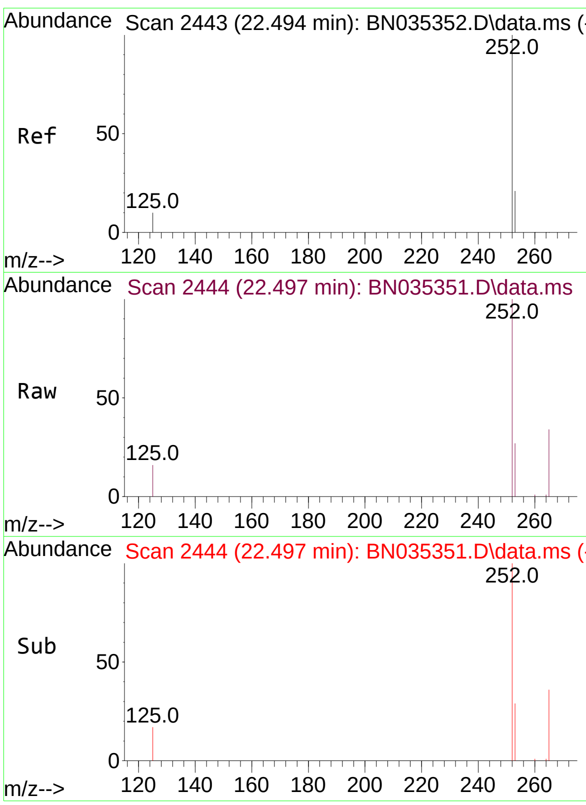
Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

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

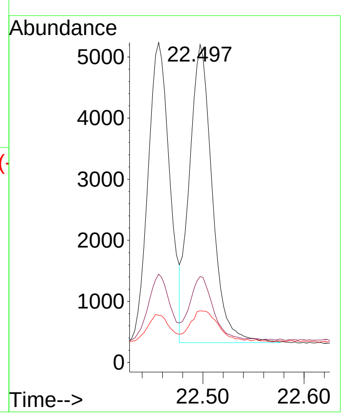




#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

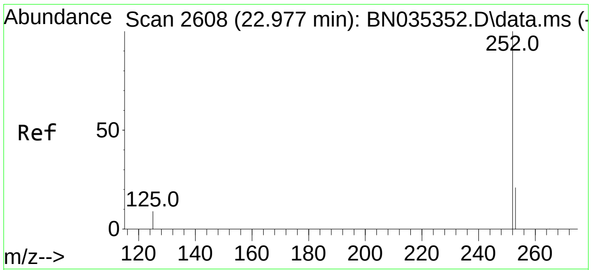
Ion	Ratio	Lower	Upper
252	100		
253	27.0	19.5	29.3
125	16.2	10.2	15.4#

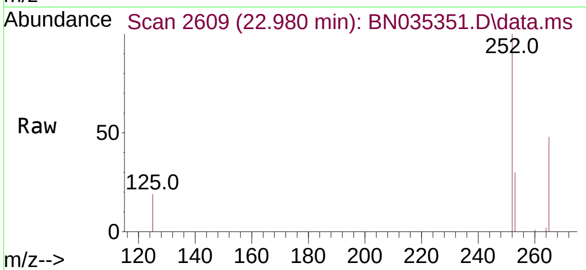


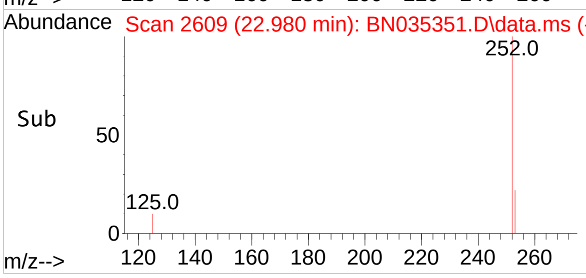
ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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



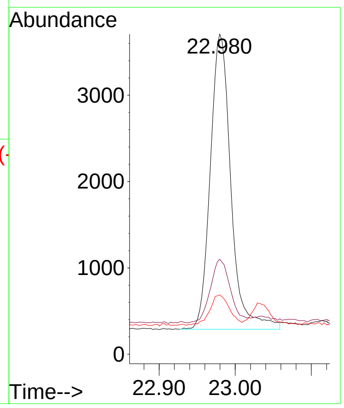


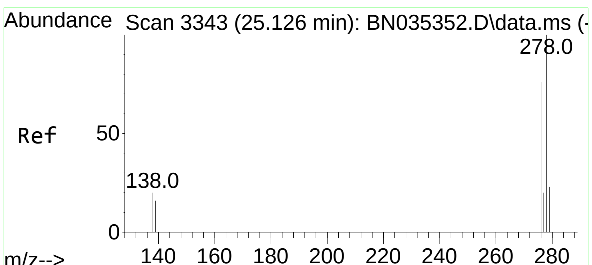


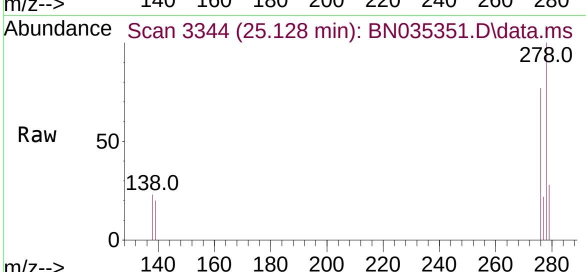
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

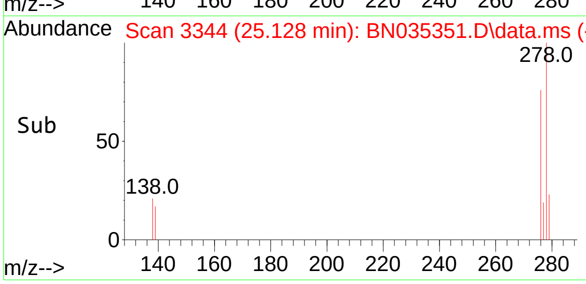
Tgt Ion:252 Resp: 645

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





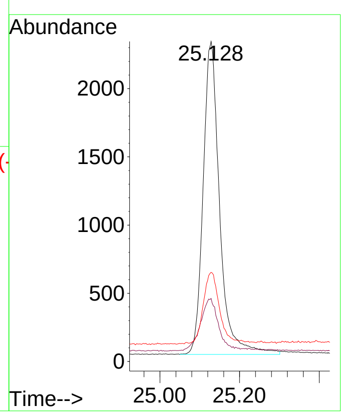


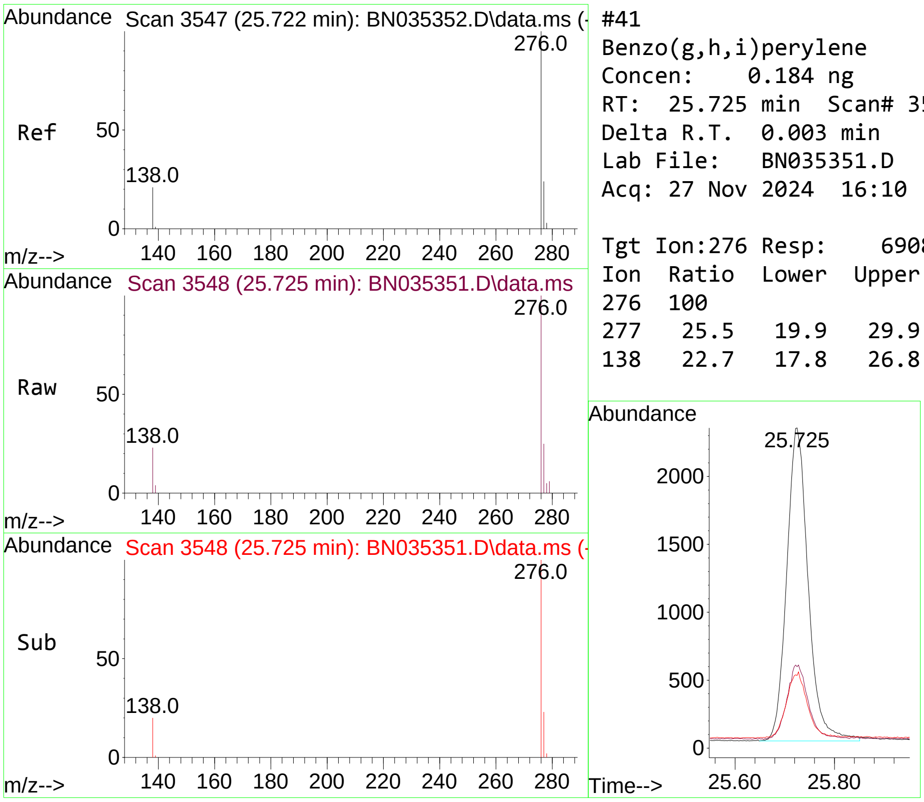


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

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

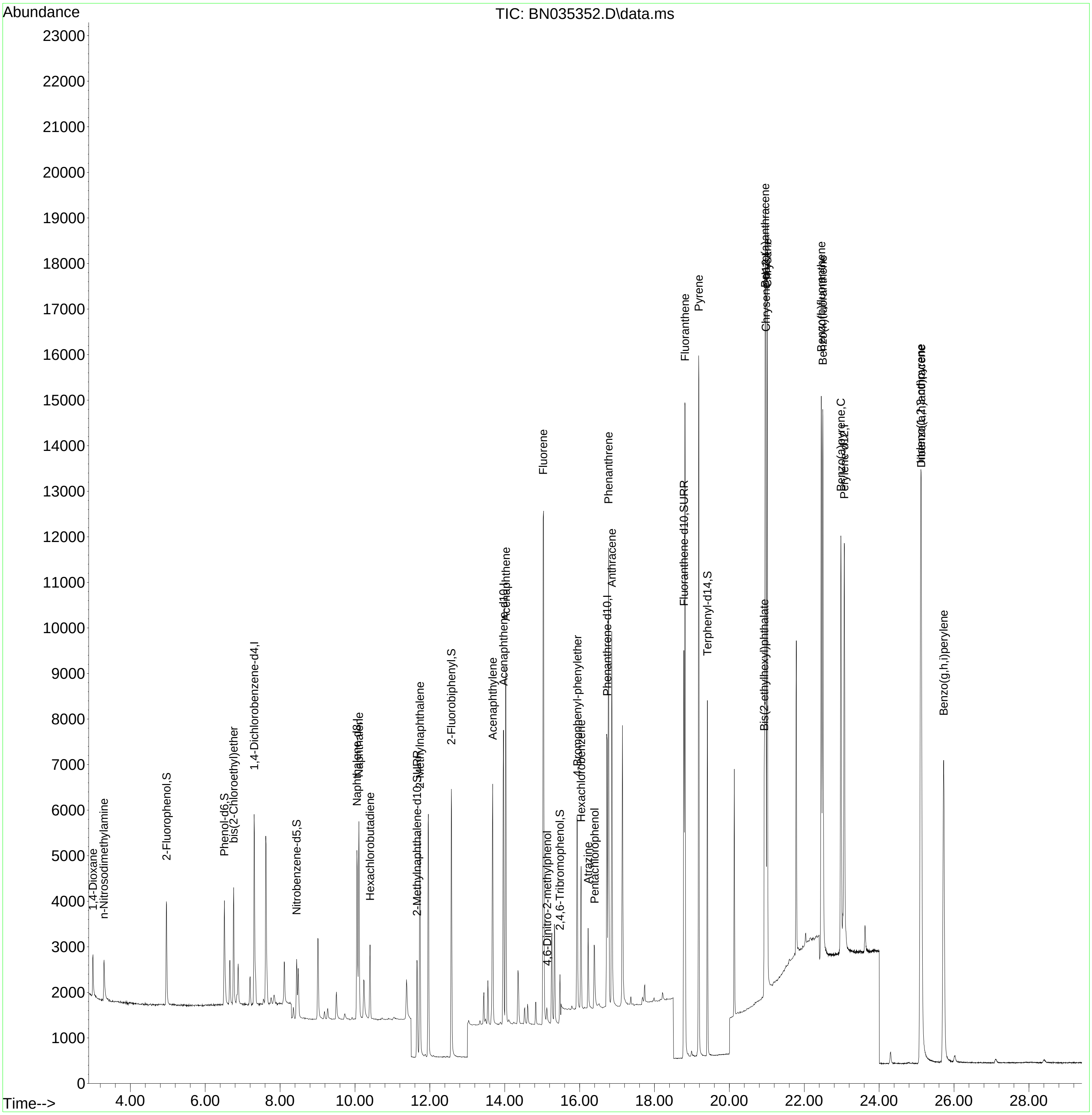
ICAL Form

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

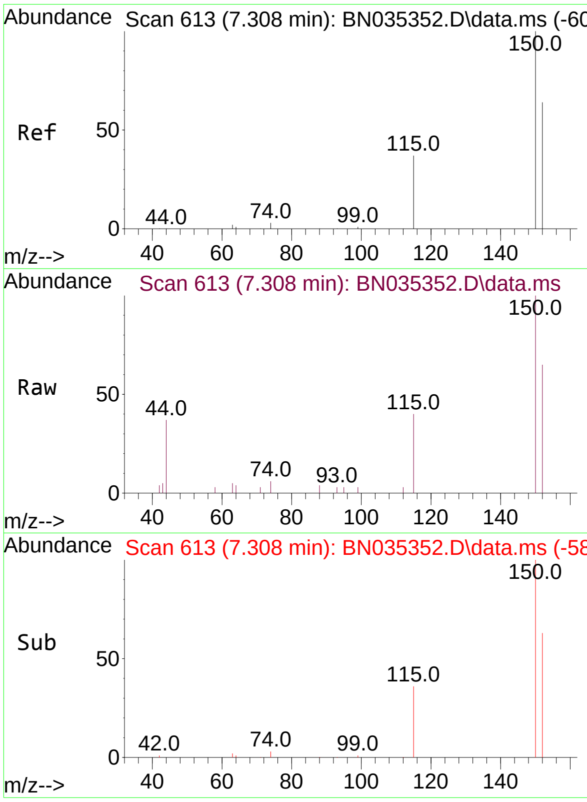


ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

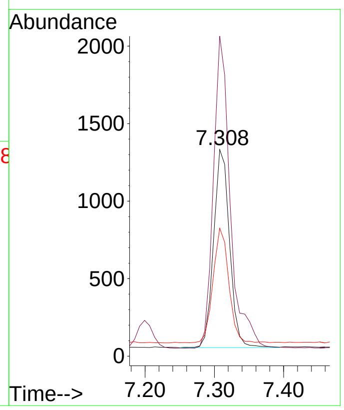
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

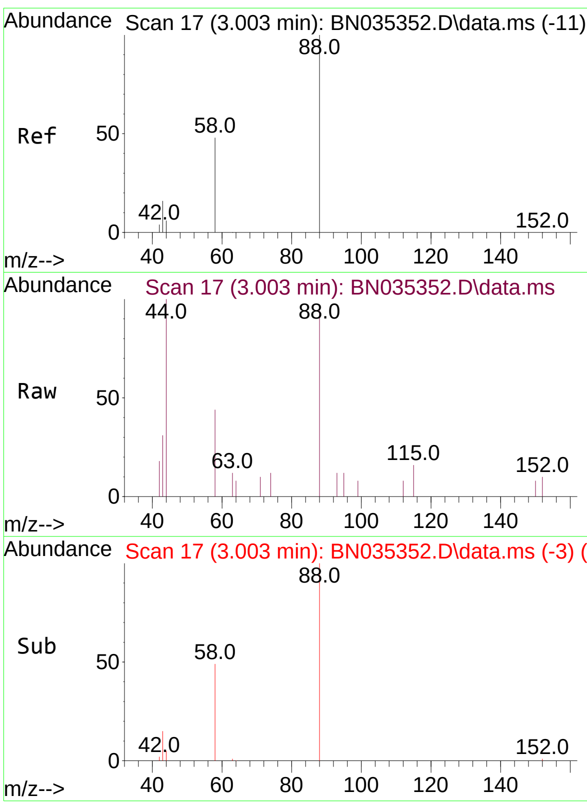


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

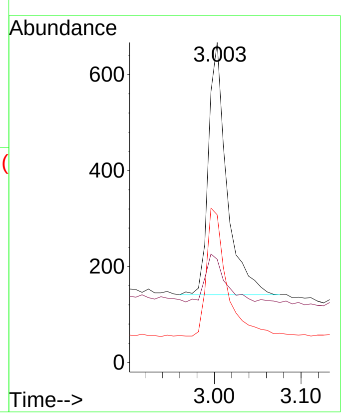


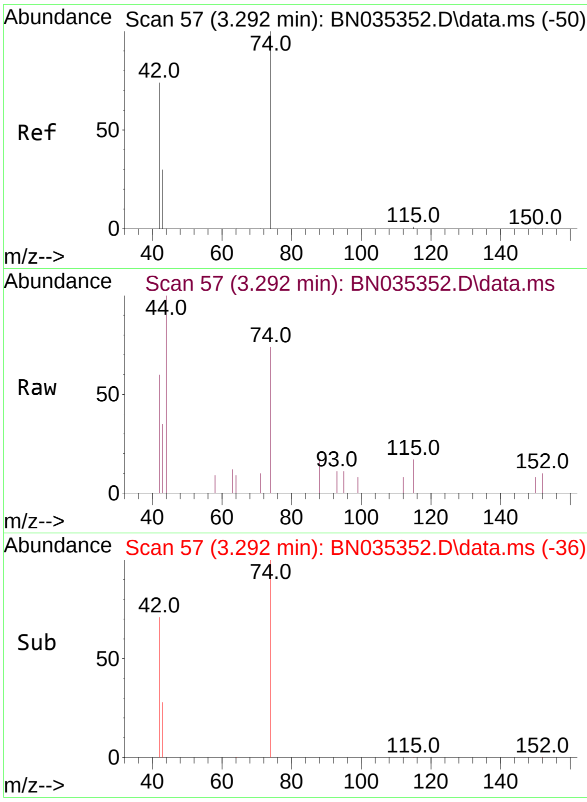


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

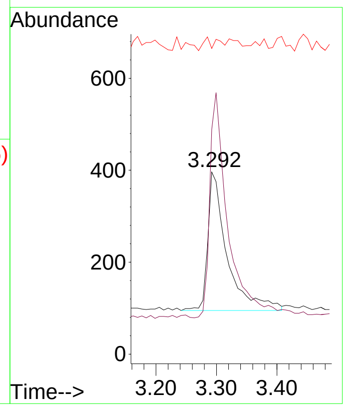
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

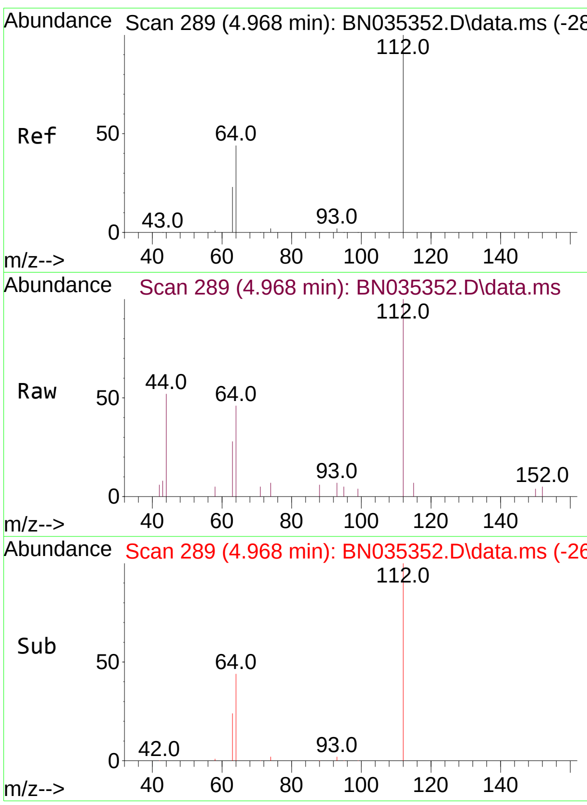
Tgt Ion: 42 Resp: 66

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

Manual Integrations APPROVED

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

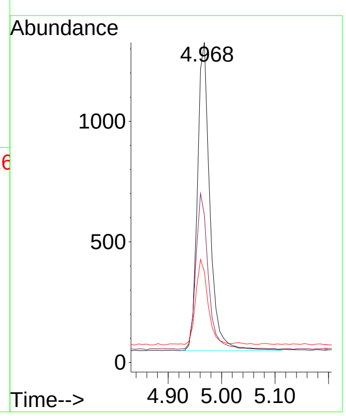


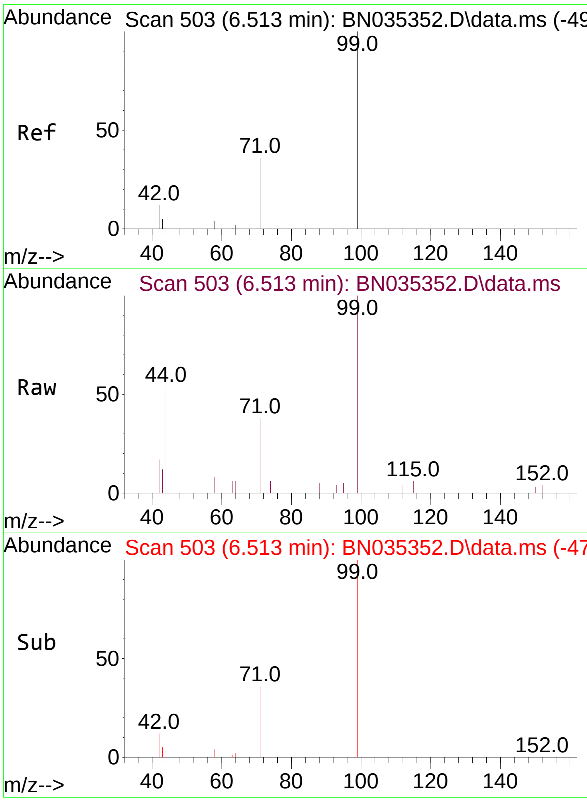


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





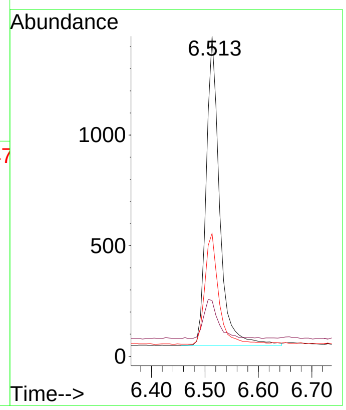
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min   Scan# 5(
Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024   16:46

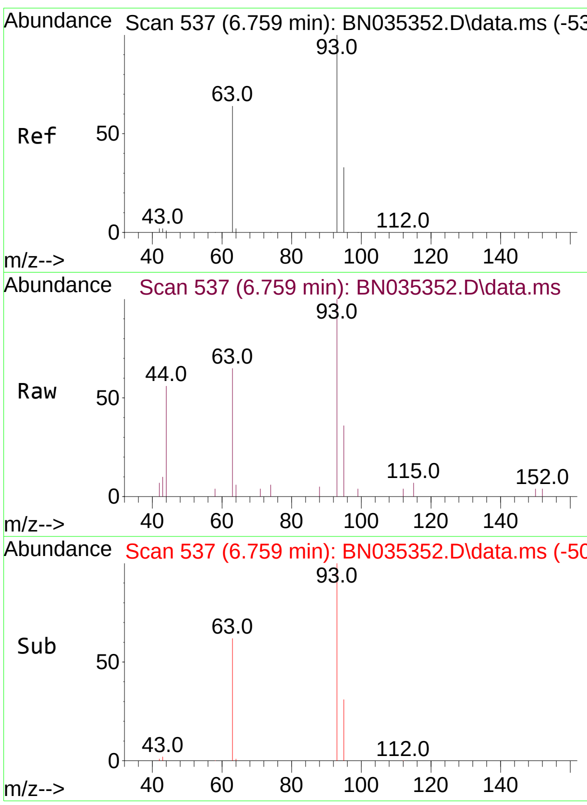
Tgt Ion: 99 Resp: 244

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

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

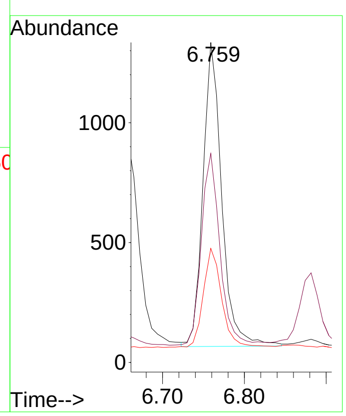




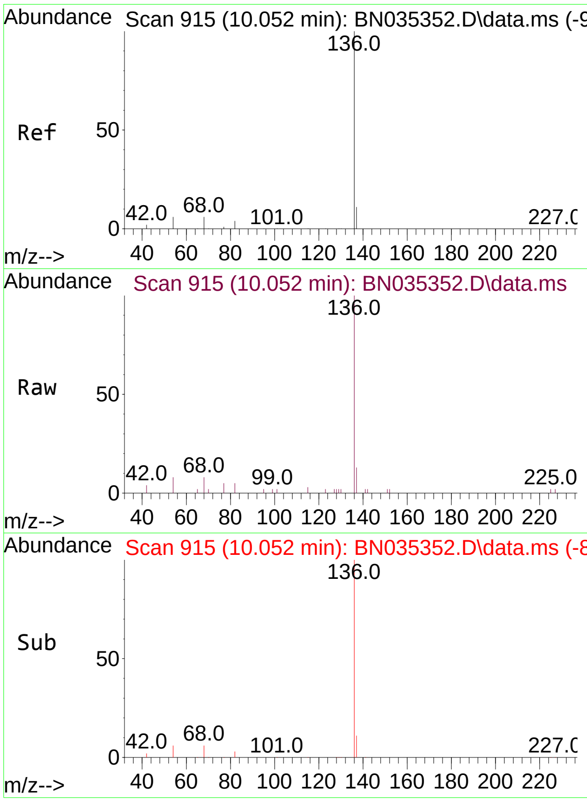
#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min   Scan# 537
Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024   16:46

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



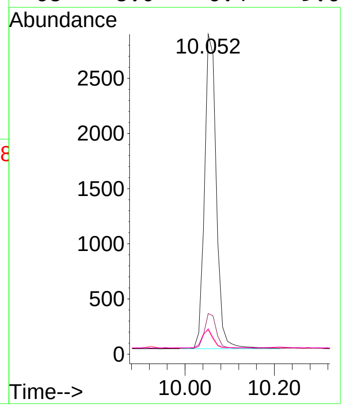
ICAL Form



#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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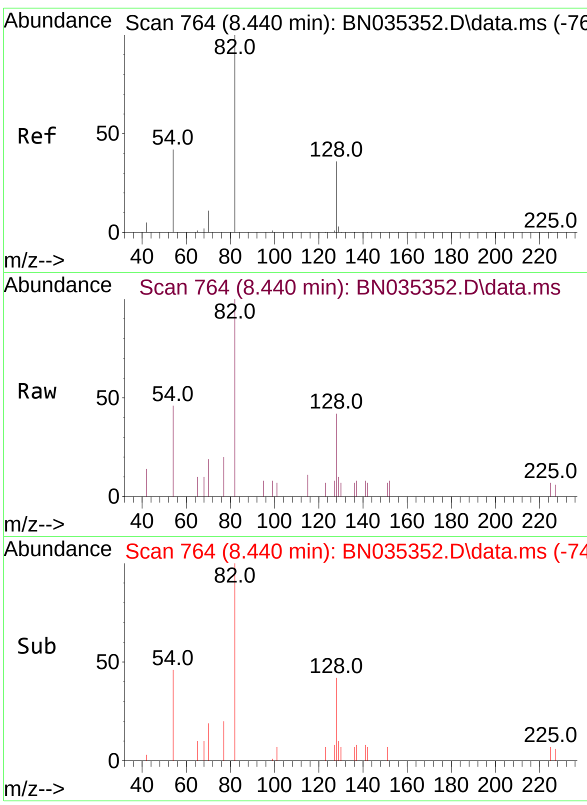
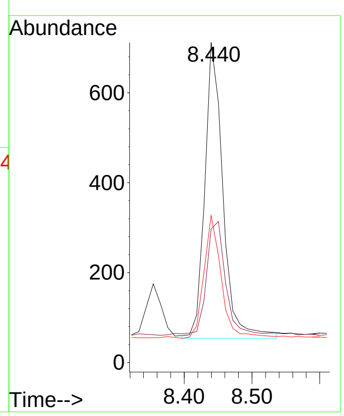
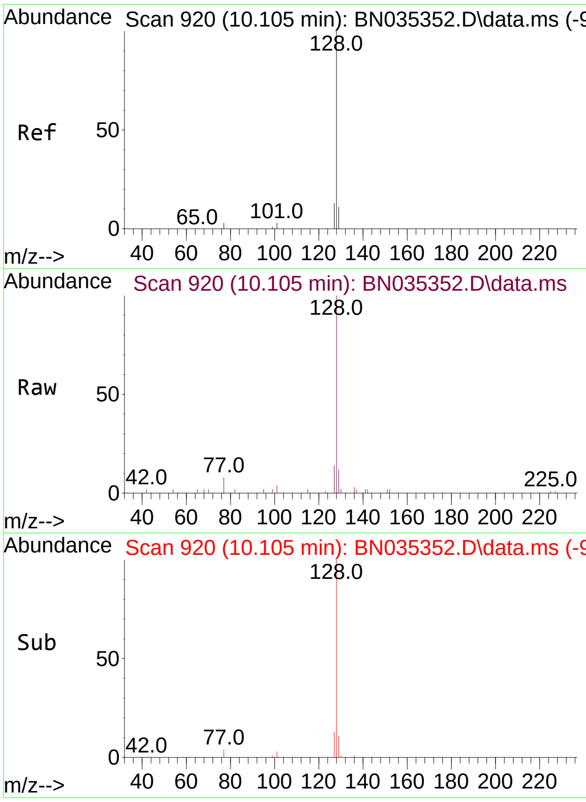


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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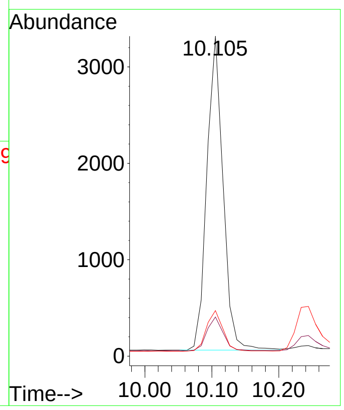
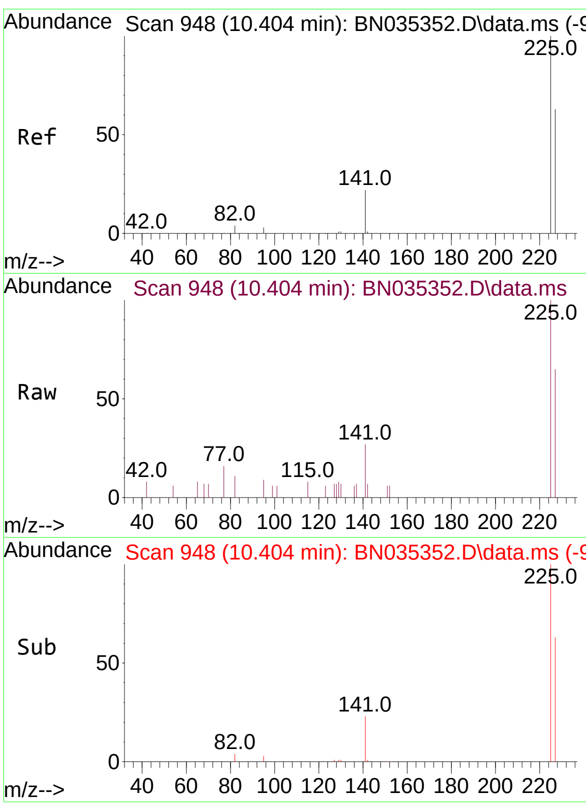
Tgt Ion:128 Resp: 547

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

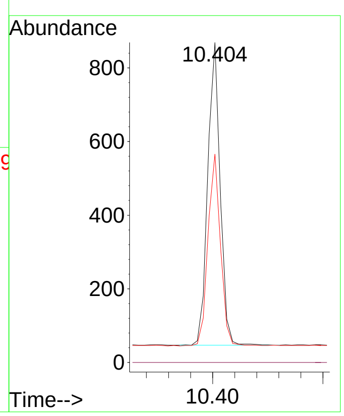




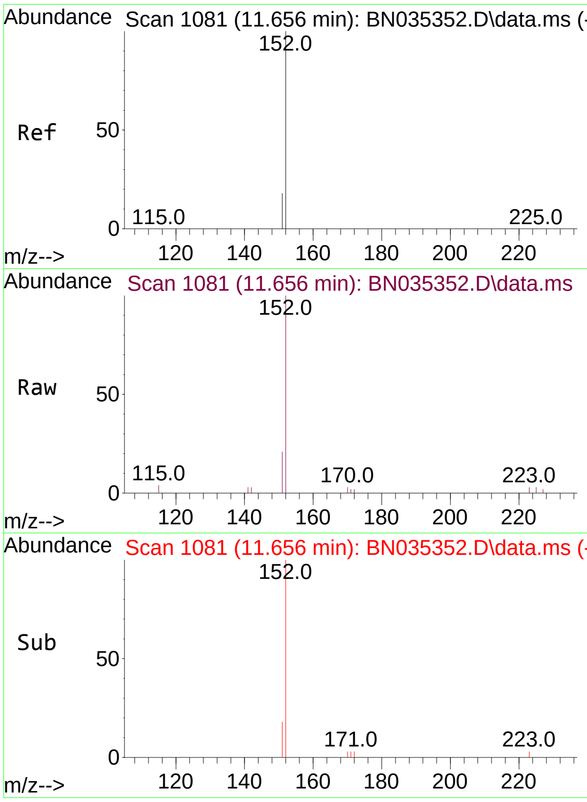
#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



ICAL Form



#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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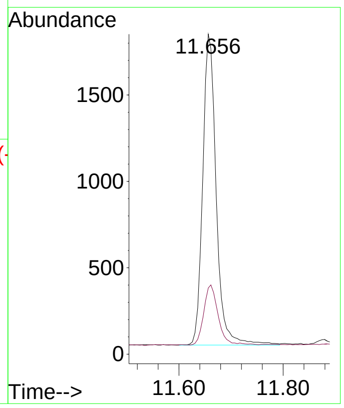
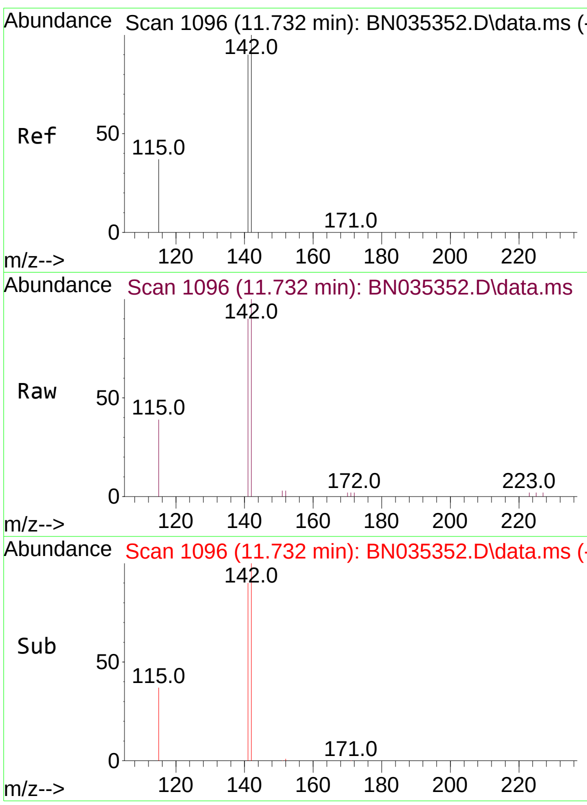
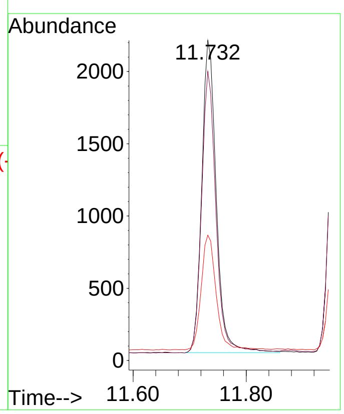




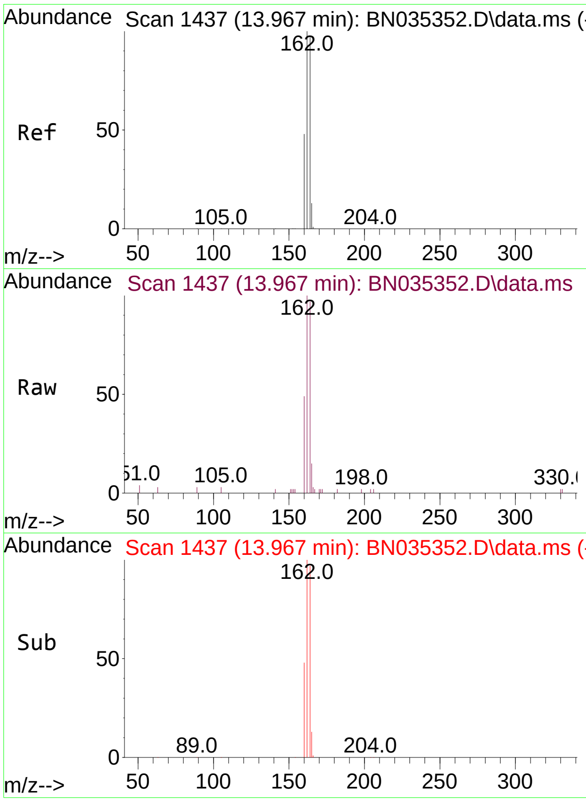
#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



ICAL Form



#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: 379

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

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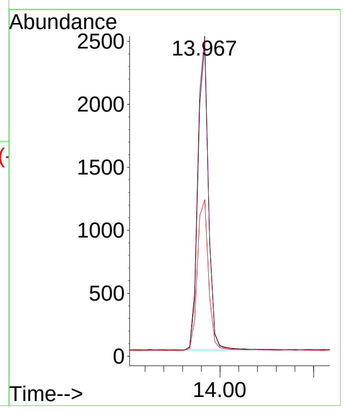
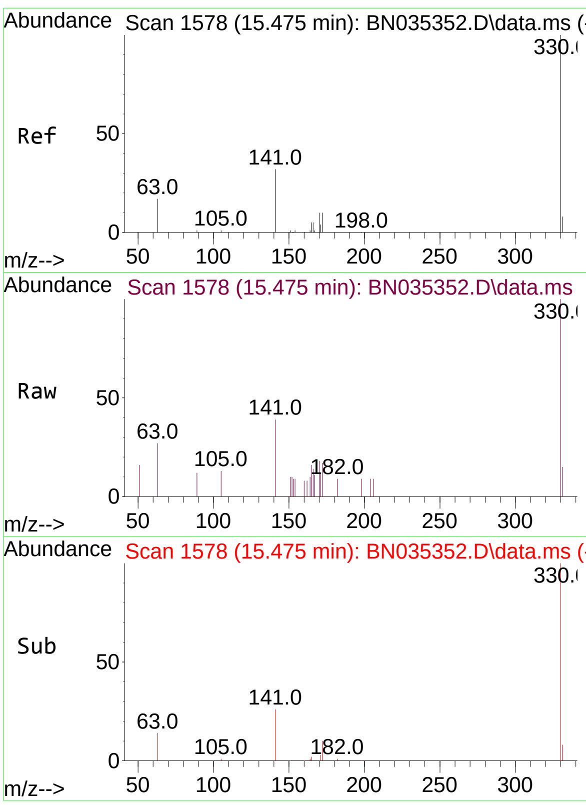
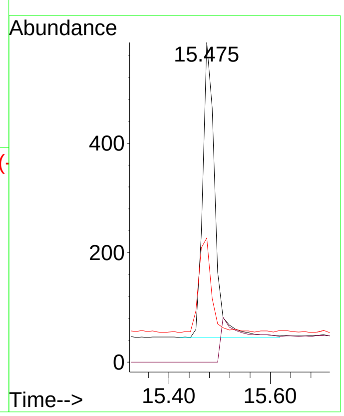




#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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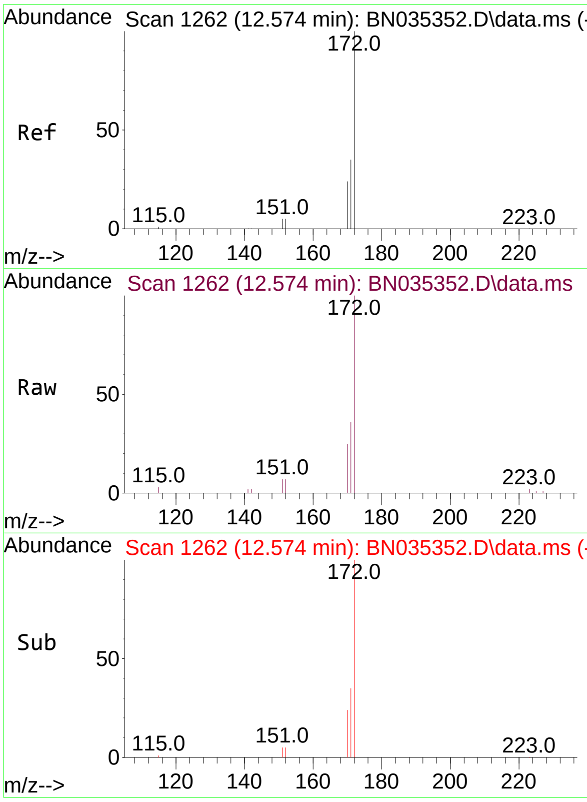

#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 573

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

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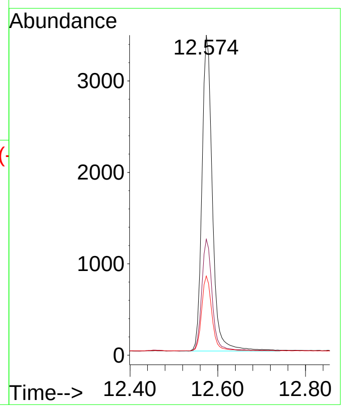
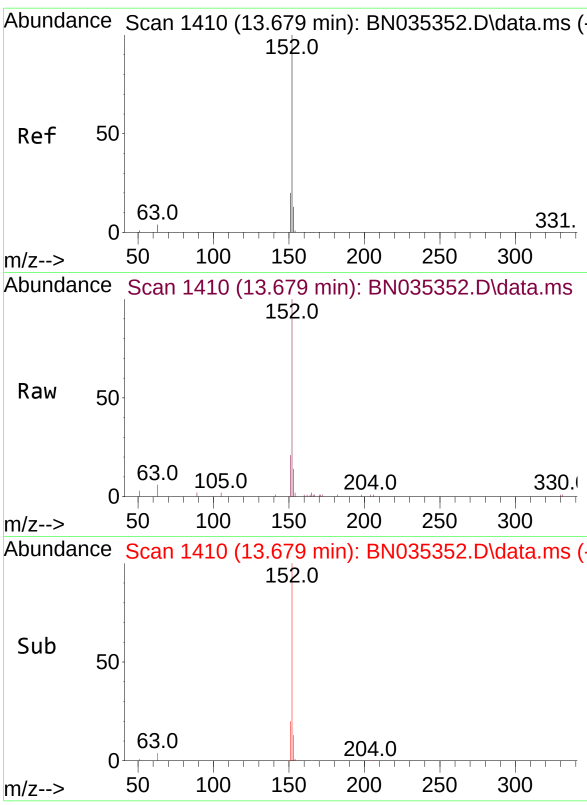
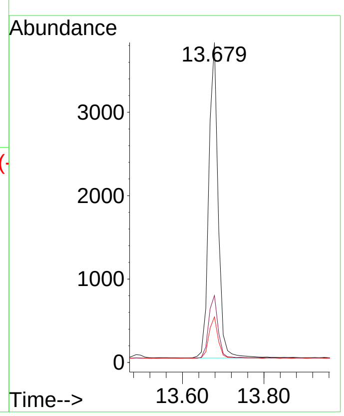


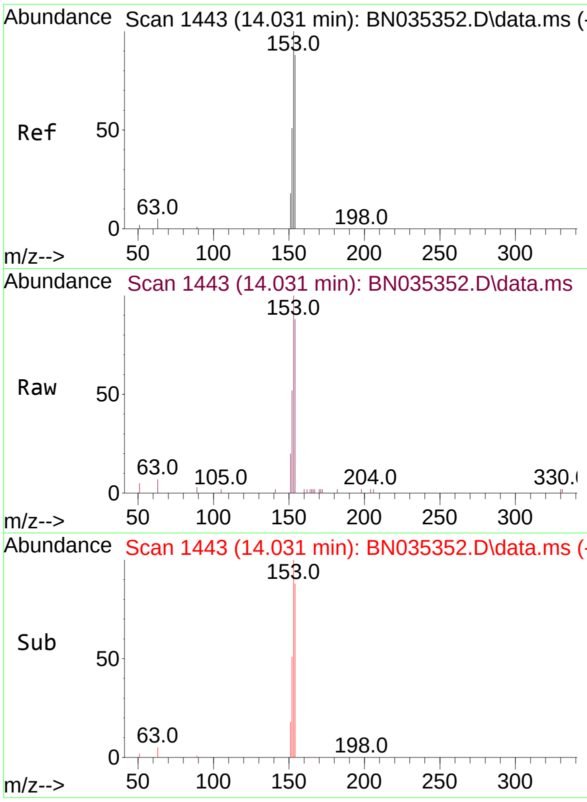


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

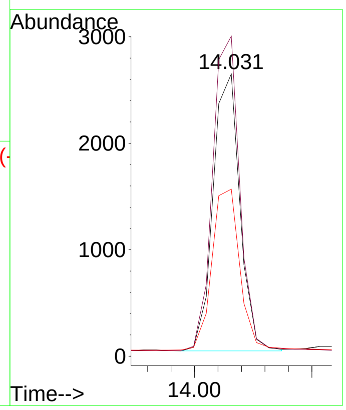




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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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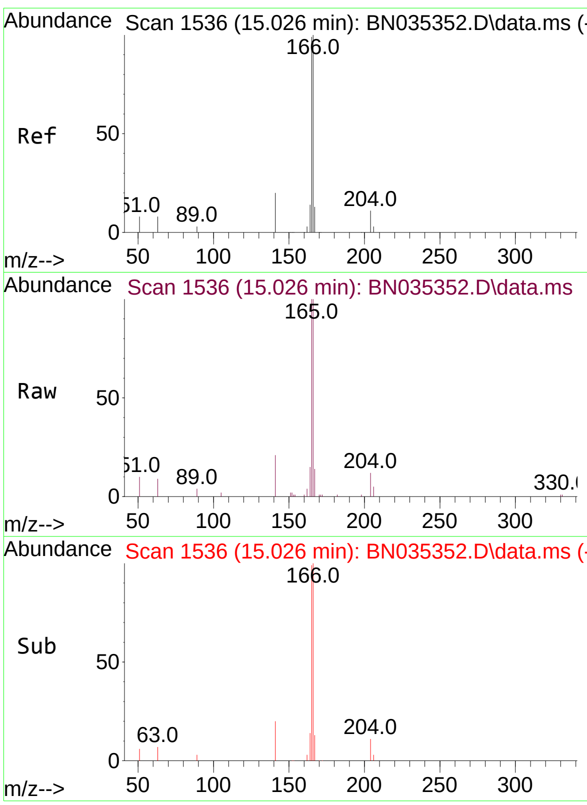
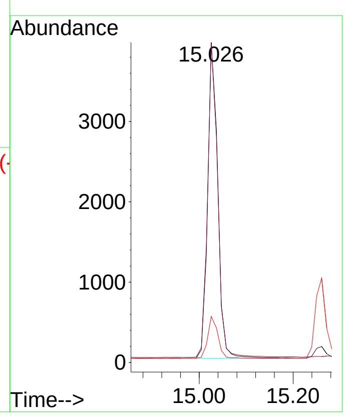
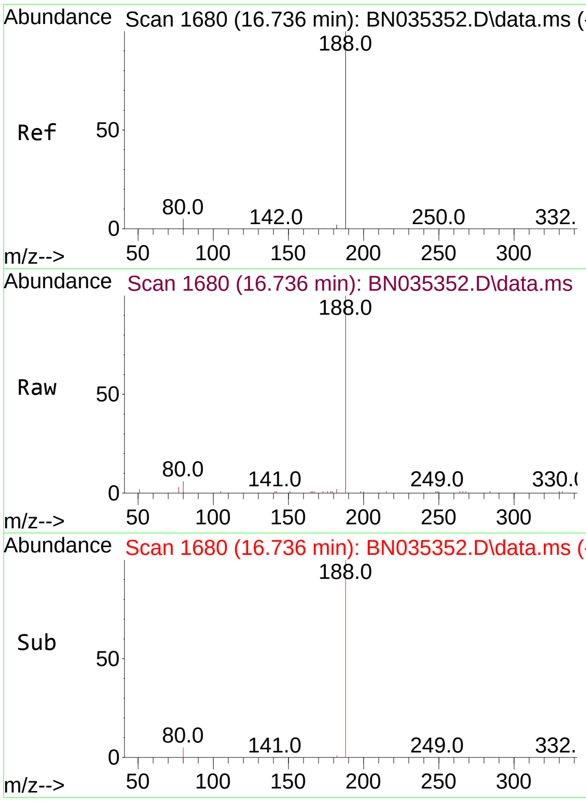


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

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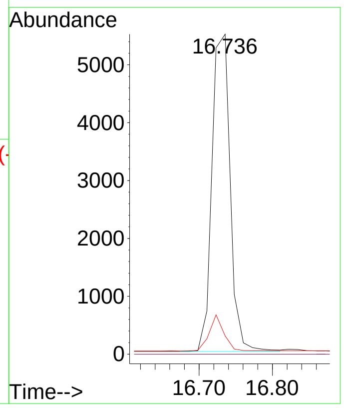
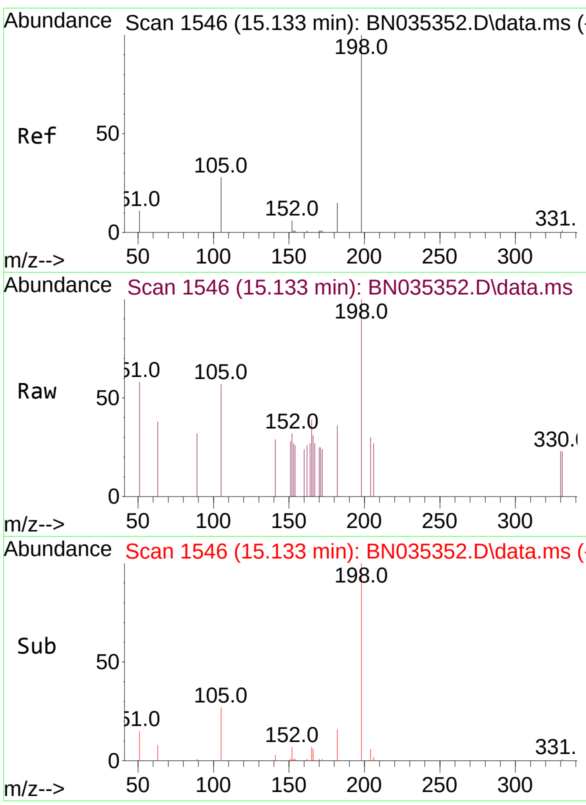
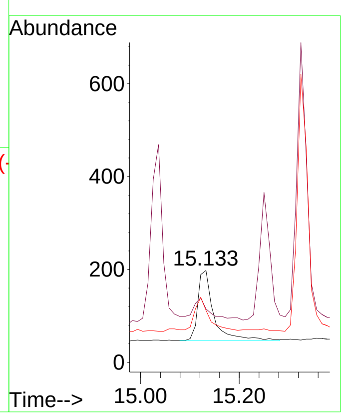




#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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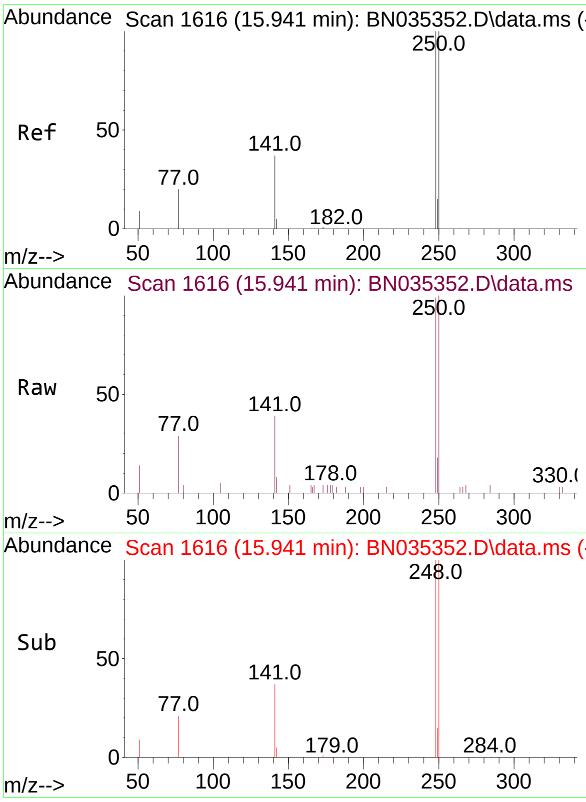

#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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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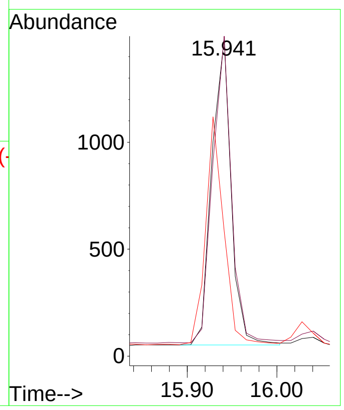
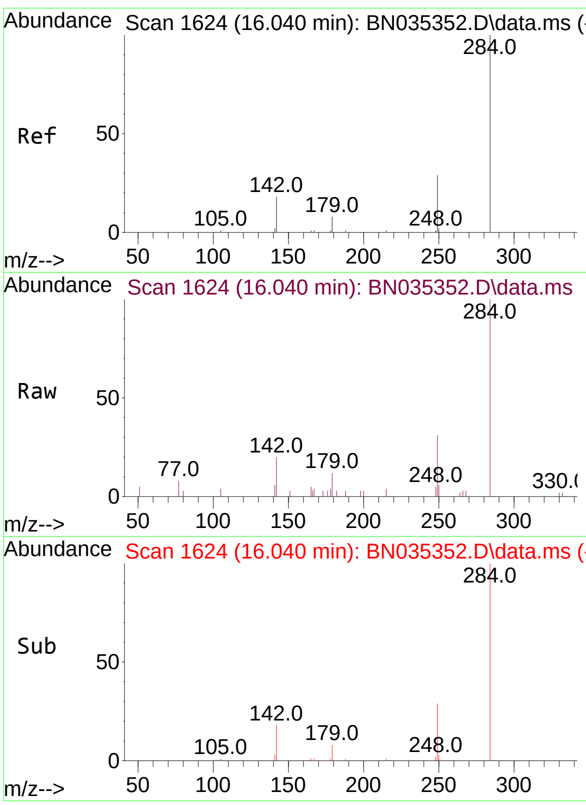
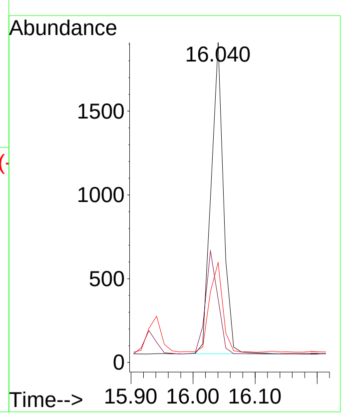




#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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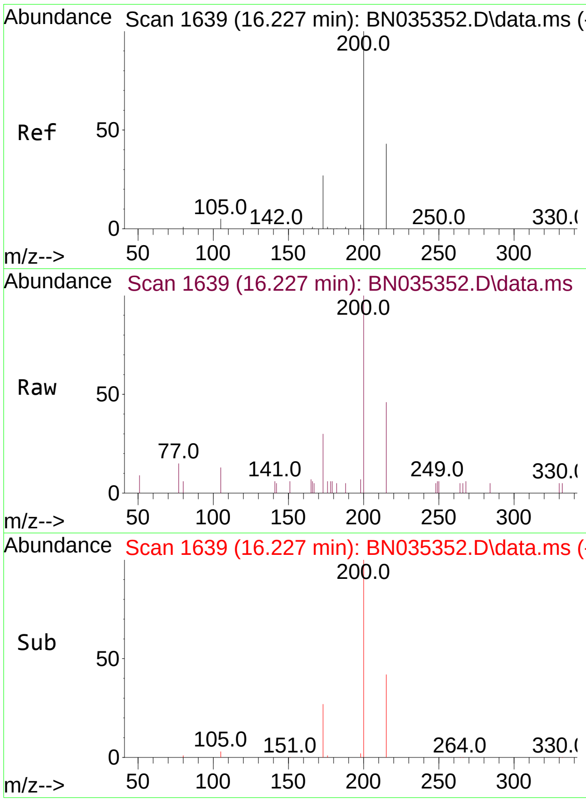
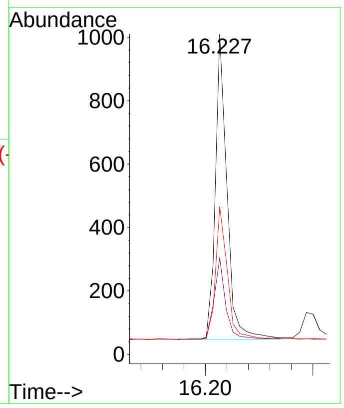


#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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 :
SSTDICCC0.4

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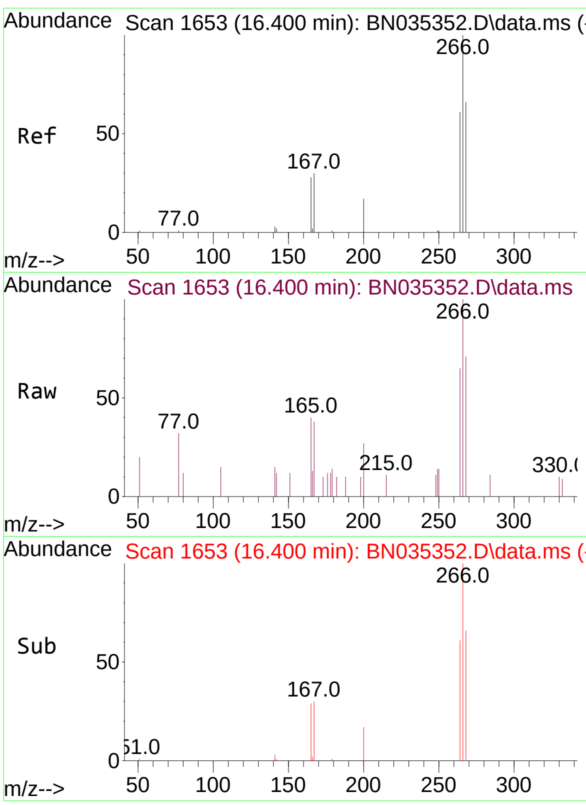
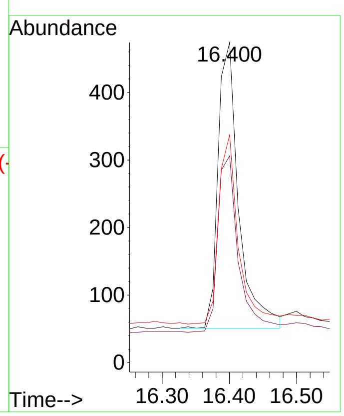
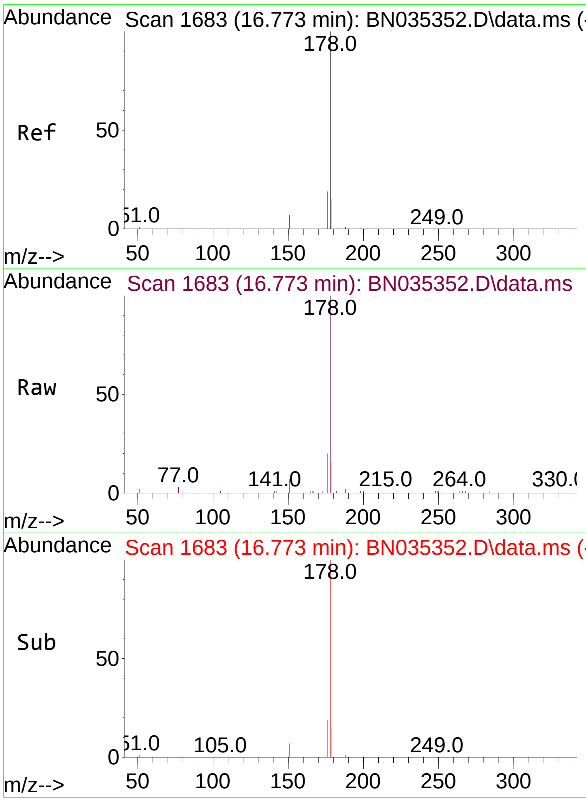


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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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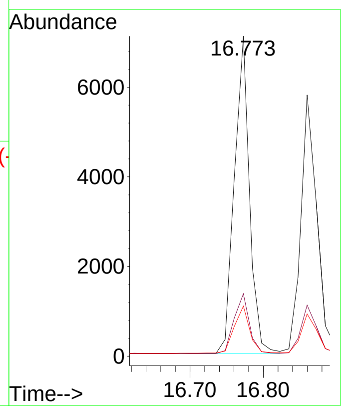
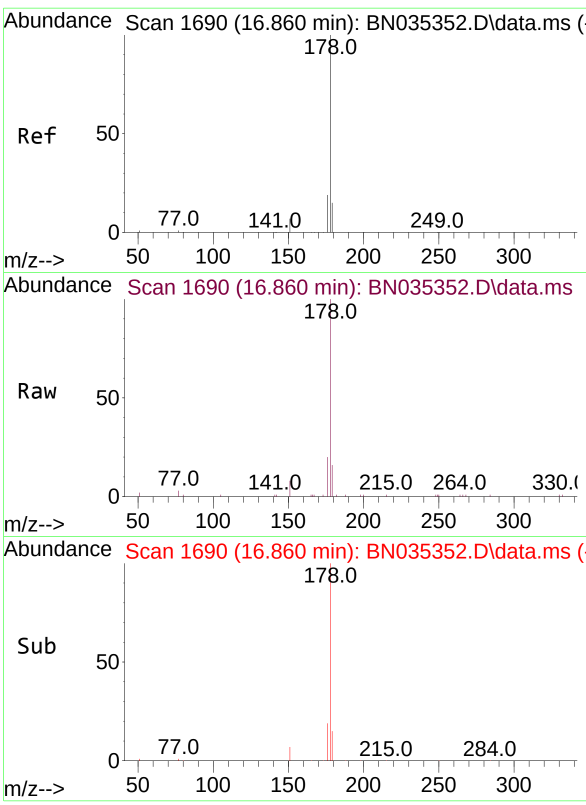
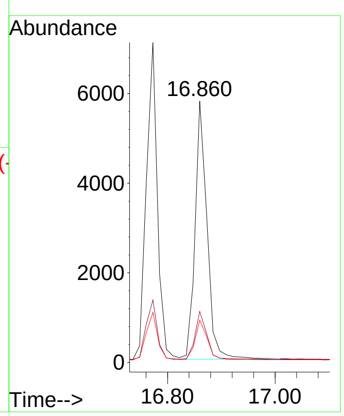




#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



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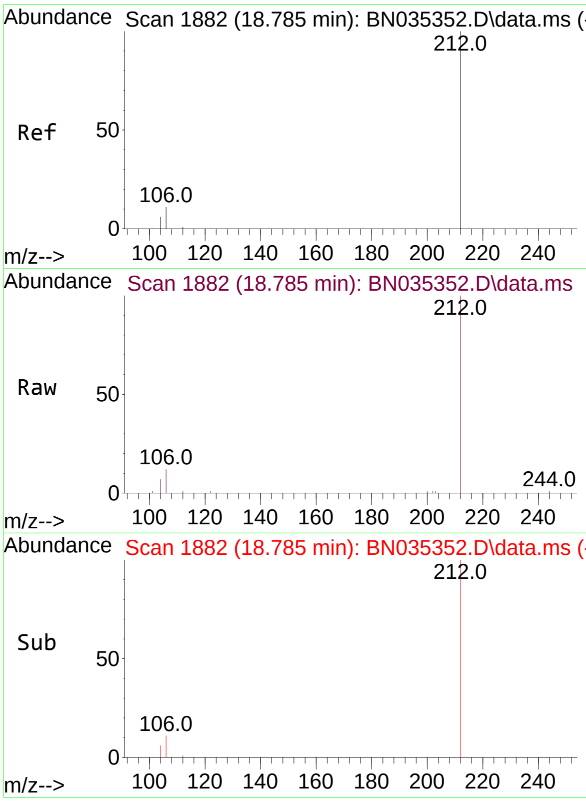

#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 1022

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

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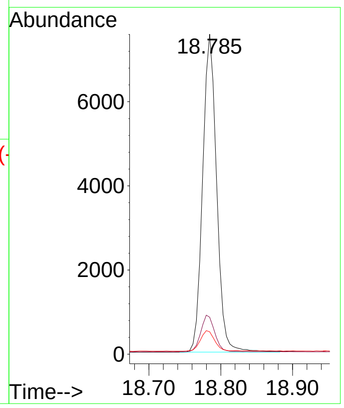
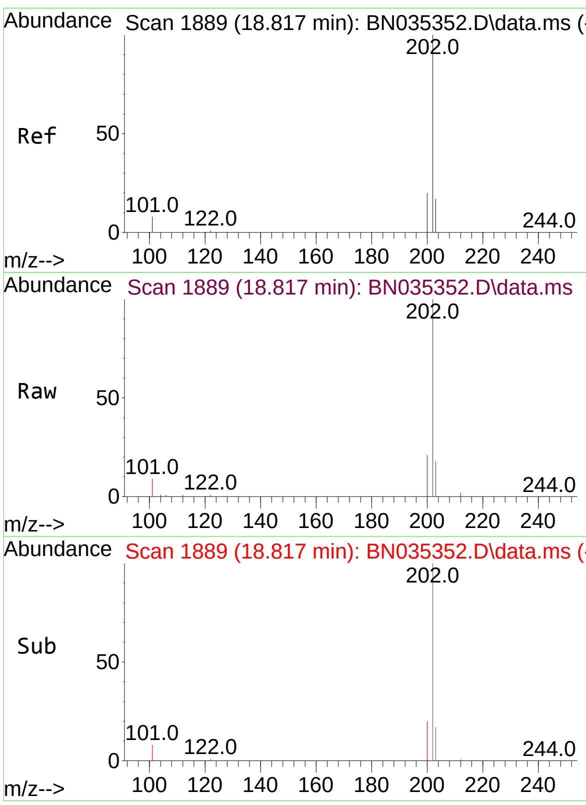
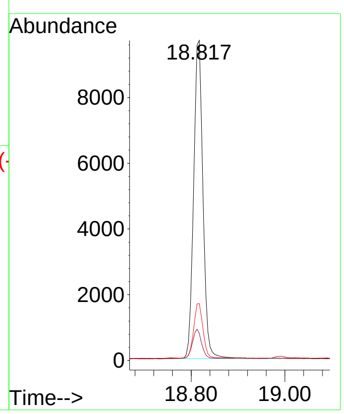


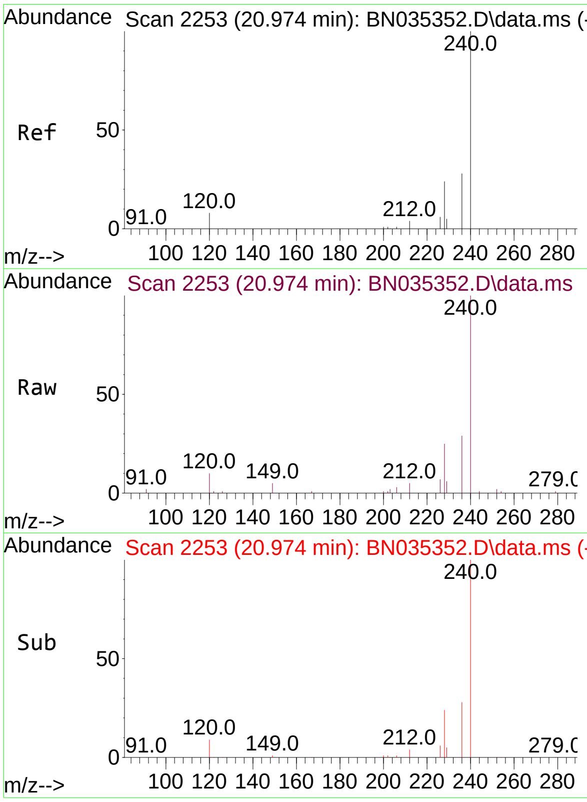


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

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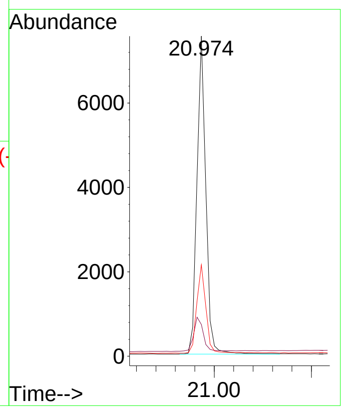
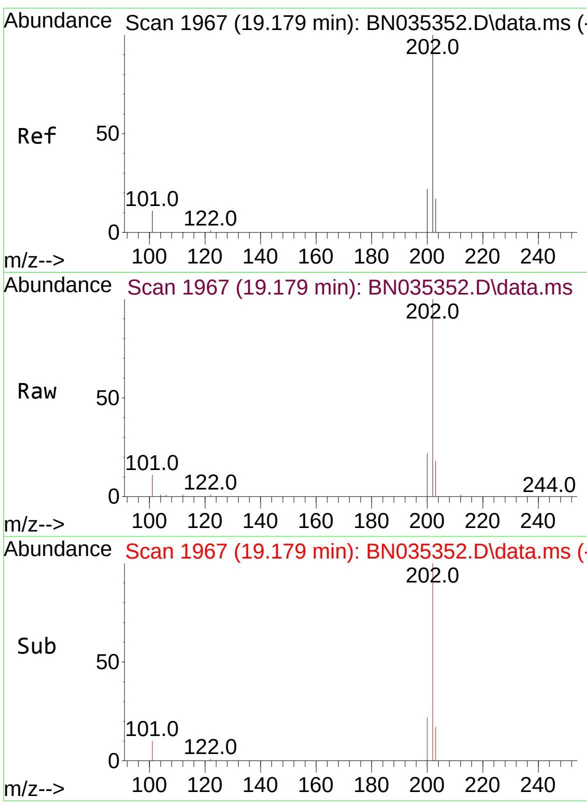
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

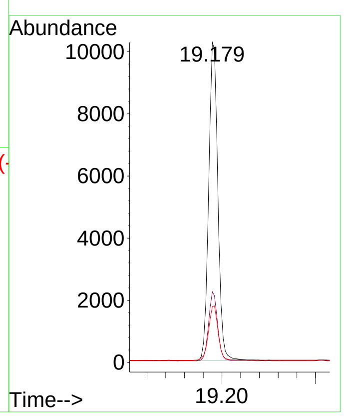




#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

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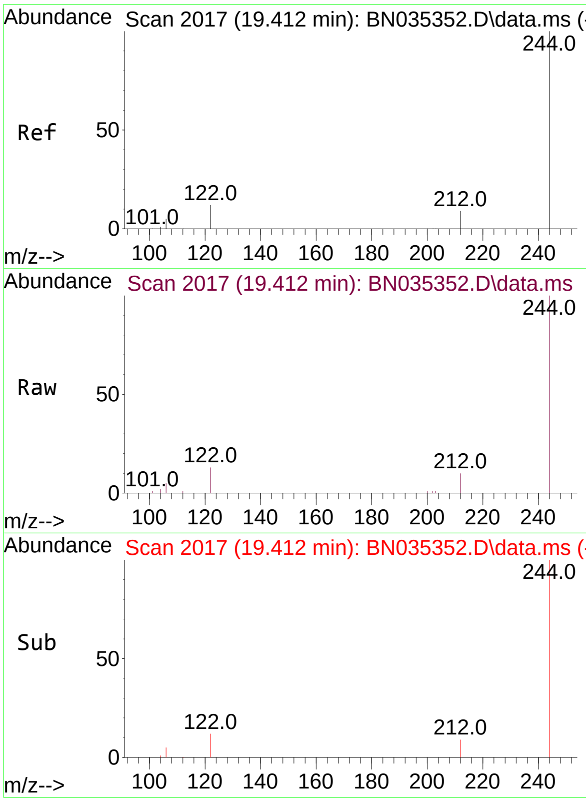
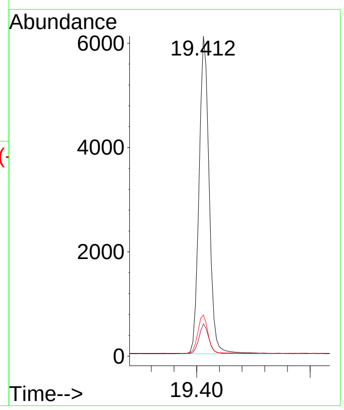
Supervised By :mohammad ahmed 12/03/2024

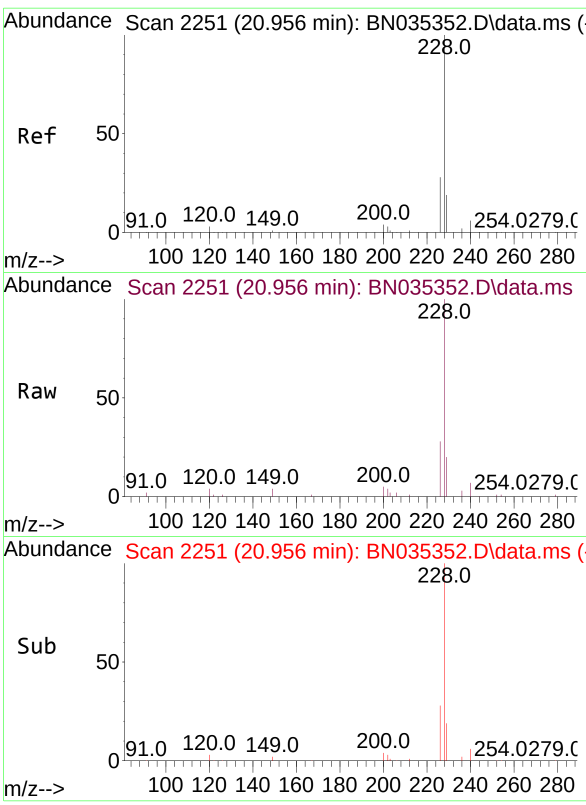


#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

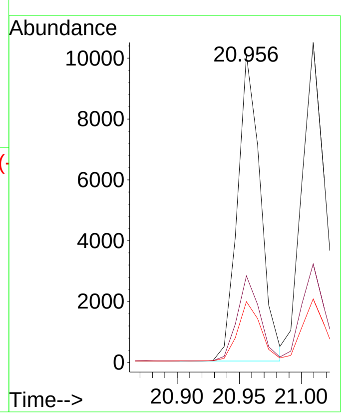




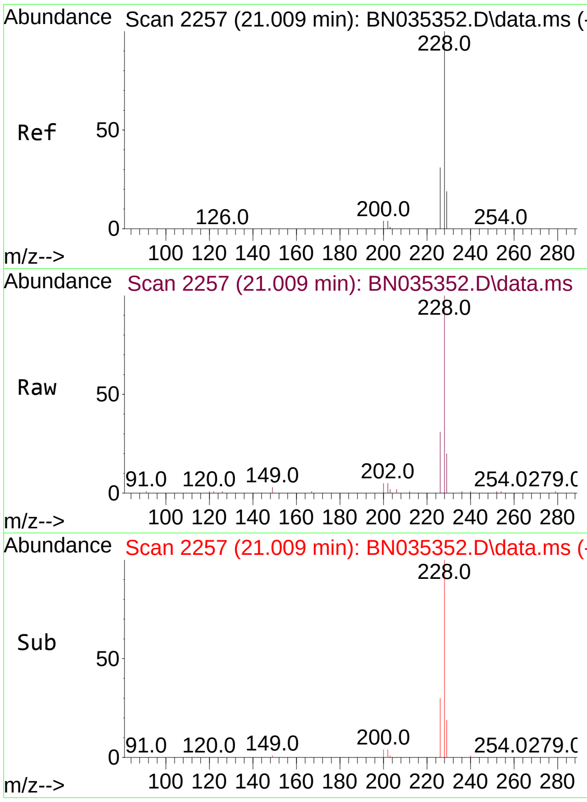
#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



ICAL Form



#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

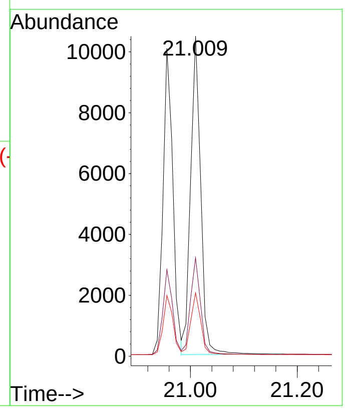
Tgt Ion:228 Resp: 1372

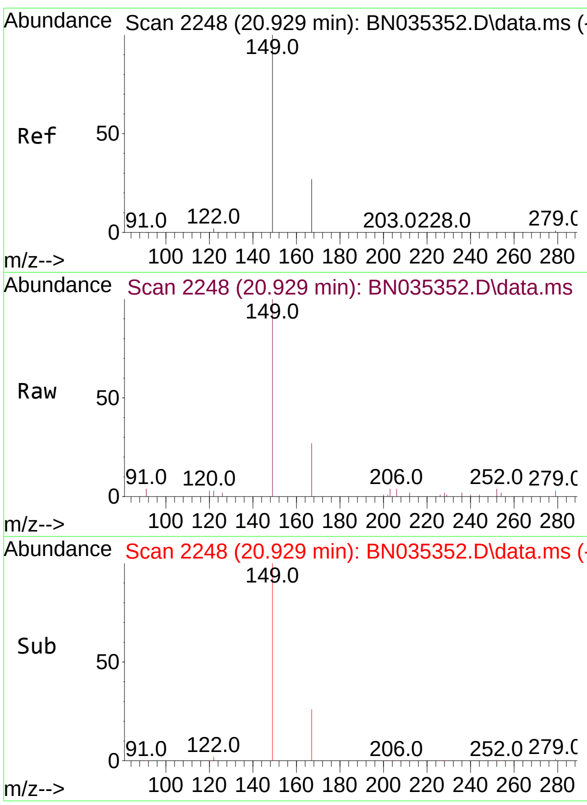
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

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

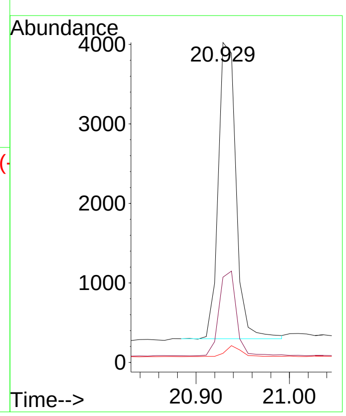




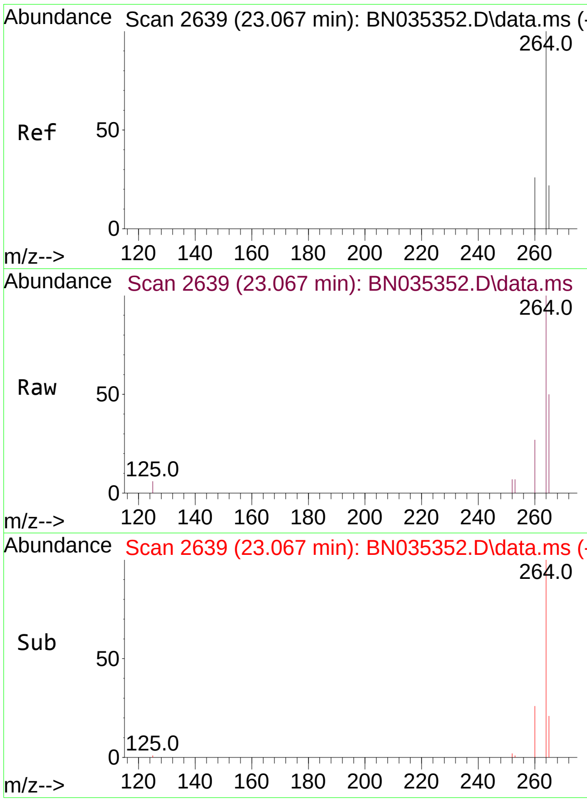
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



ICAL Form



#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: 1084

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

Manual Integrations
APPROVED

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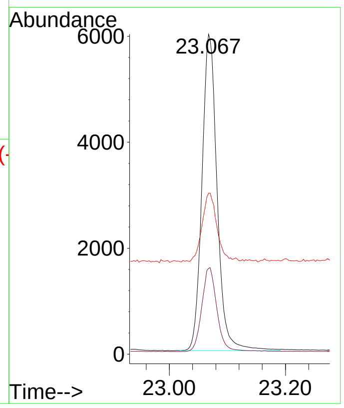
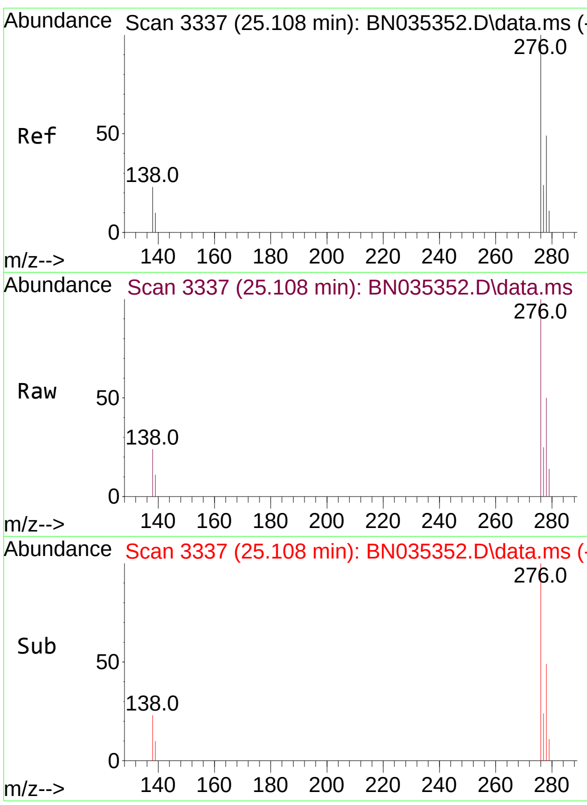
Supervised By :mohammad ahmed   12/03/2024

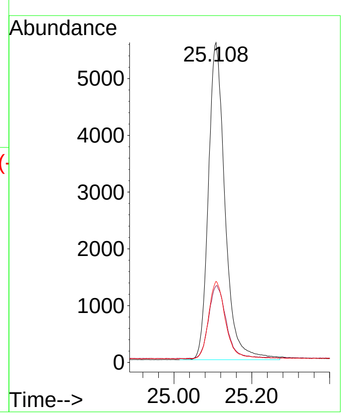


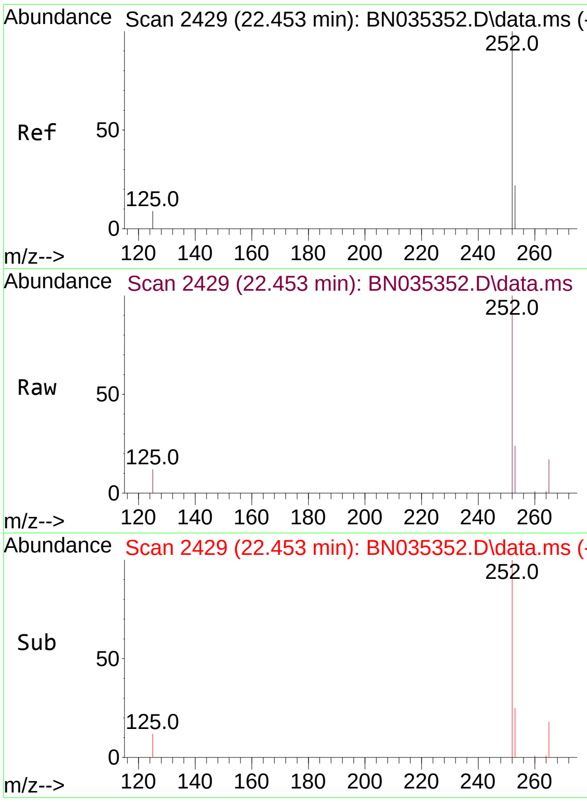


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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: 1423

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

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/29/2024
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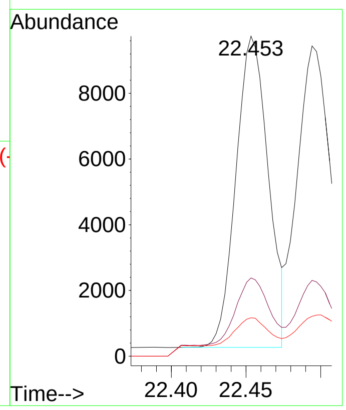
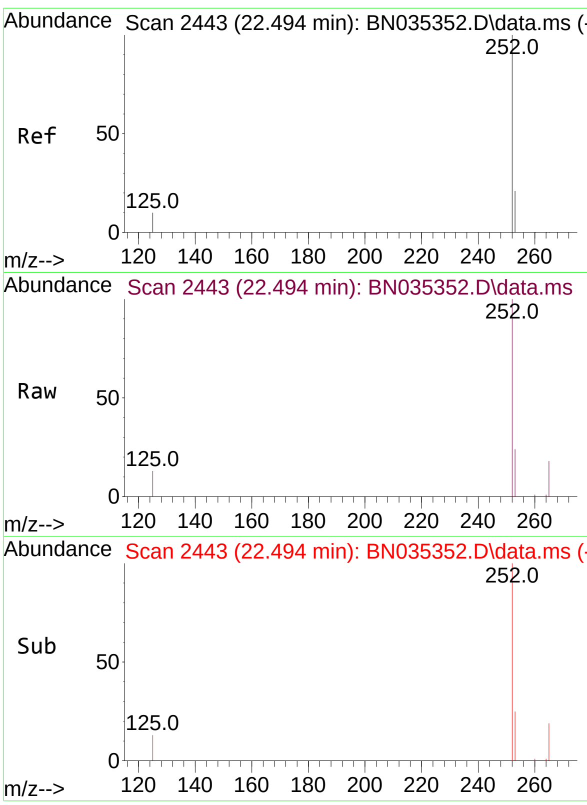
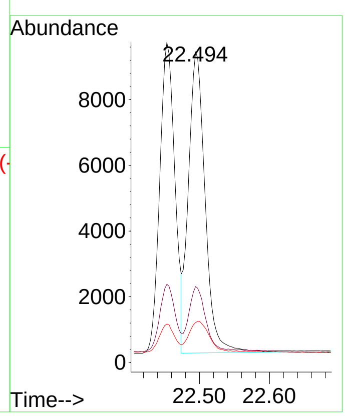




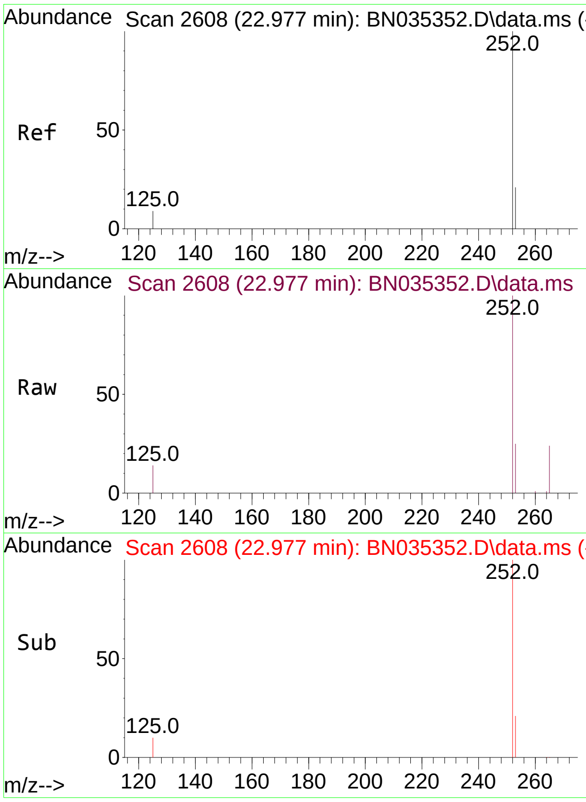
#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



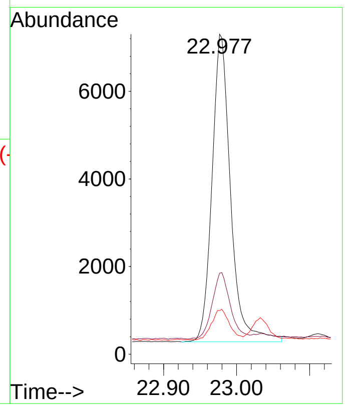
ICAL Form



#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

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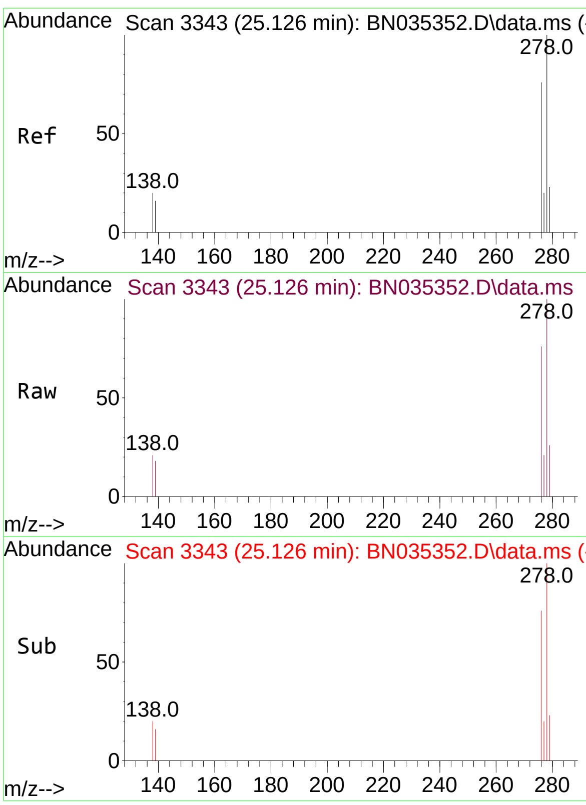
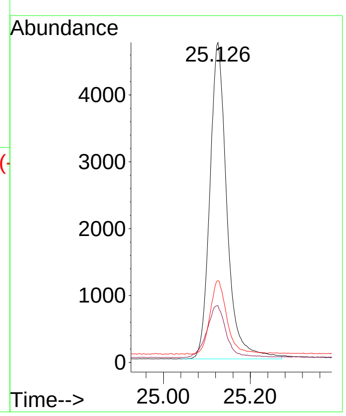
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



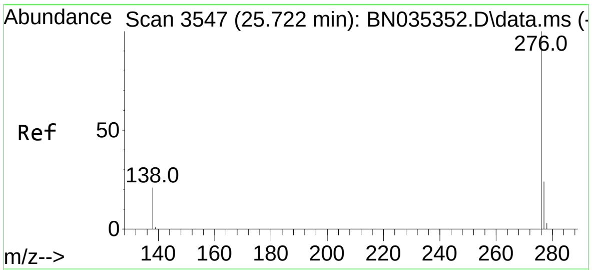
#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

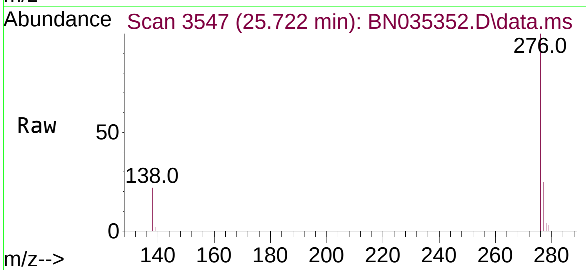
Tgt Ion:278 Resp: 12948

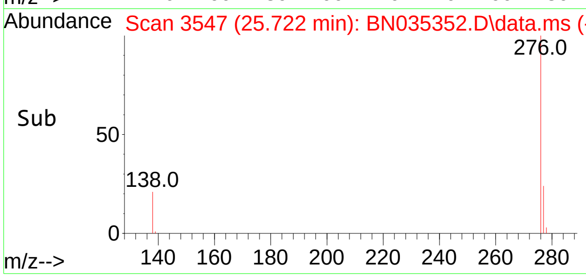
Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



ICAL Form







#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

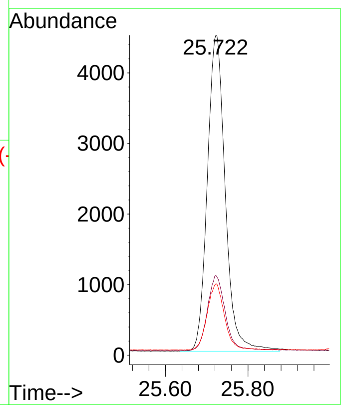
Tgt Ion:276 Resp: 1352

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

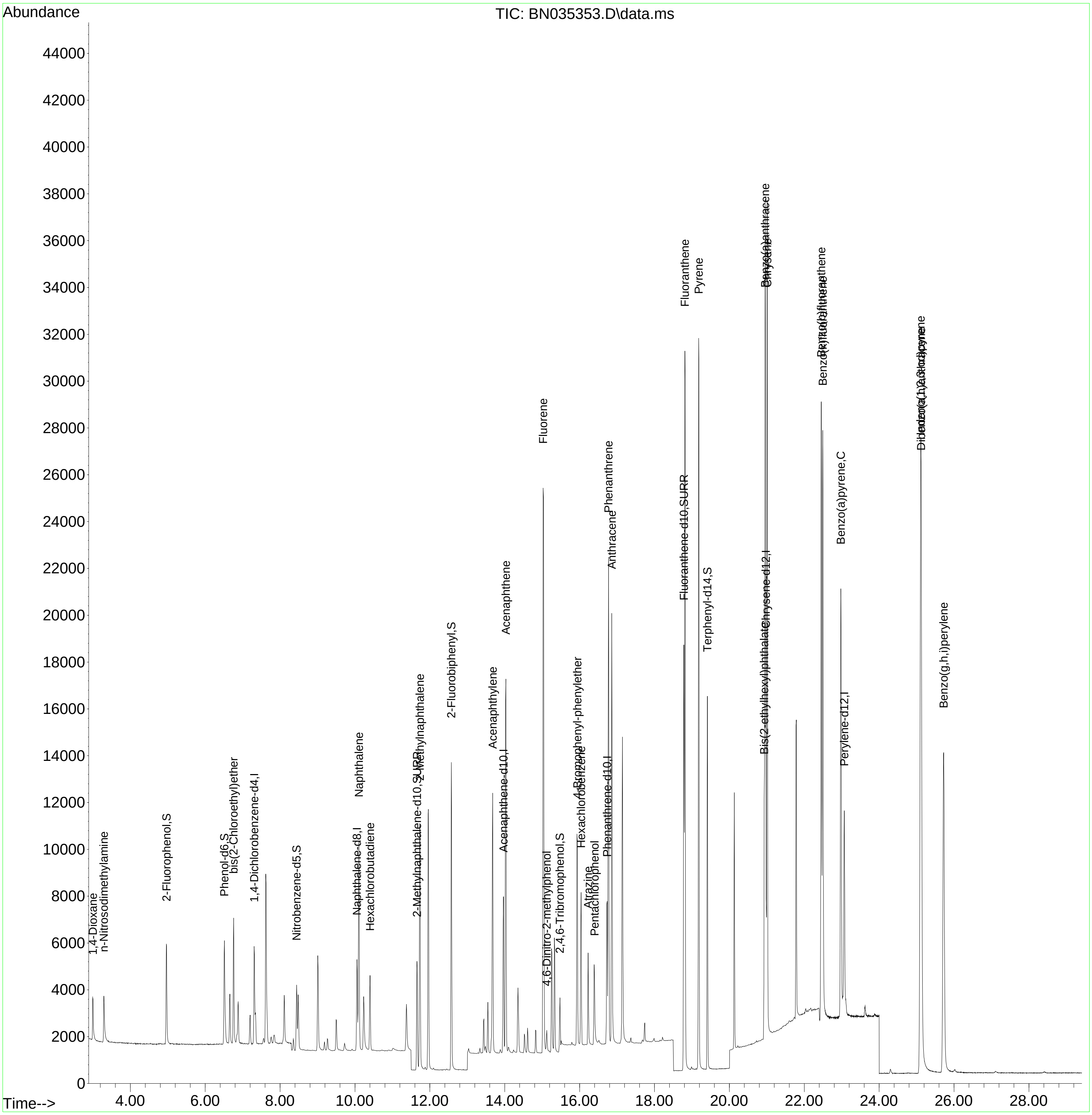
(#) = qualifier out of range (m) = manual integration (+) = signals summed

ICAL Form

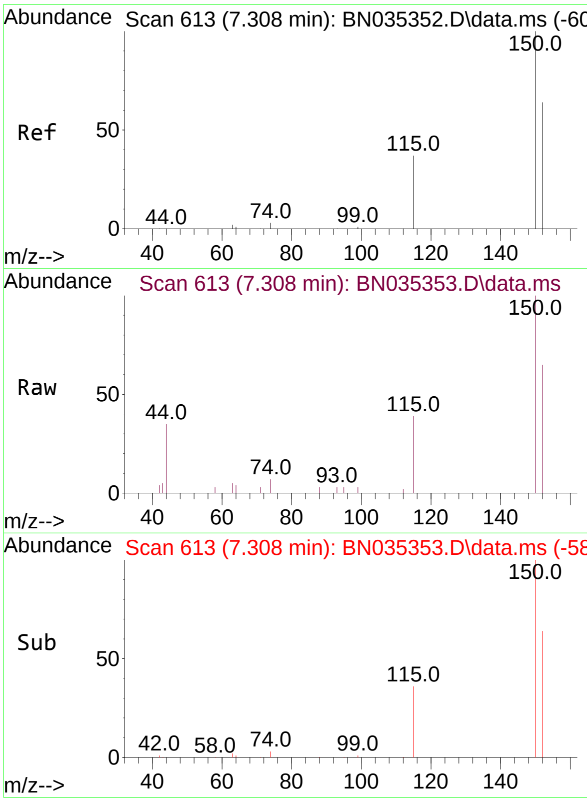
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035353.D
Acq On : 27 Nov 2024 17:21
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

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



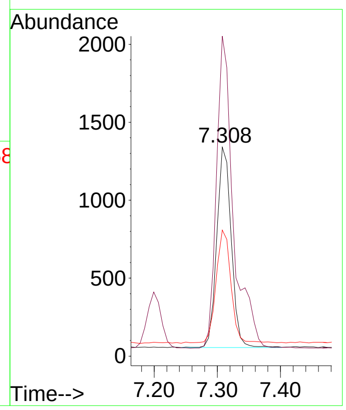
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

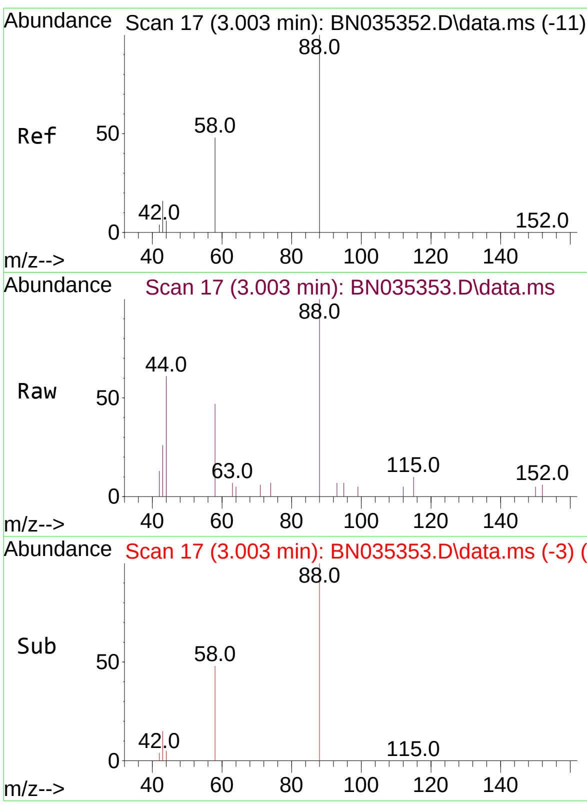


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

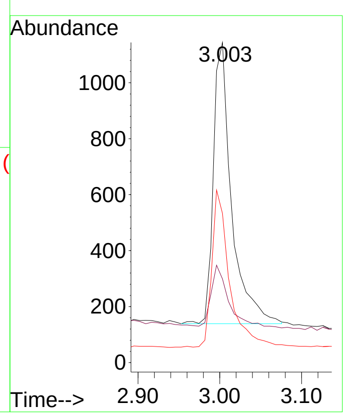




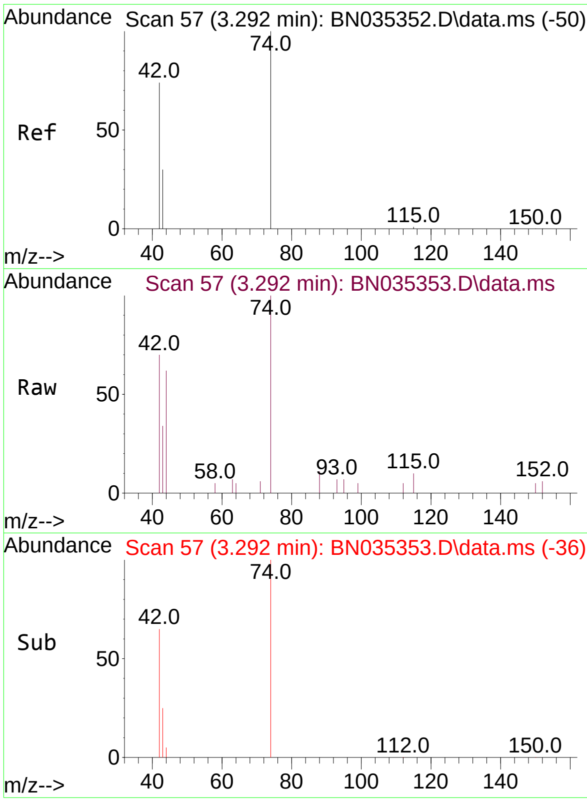
#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



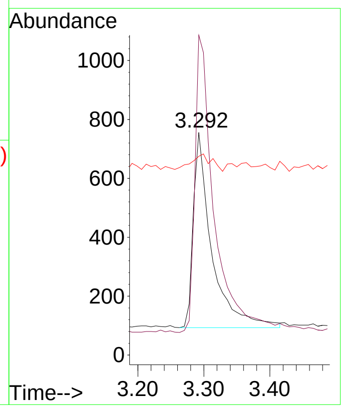
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

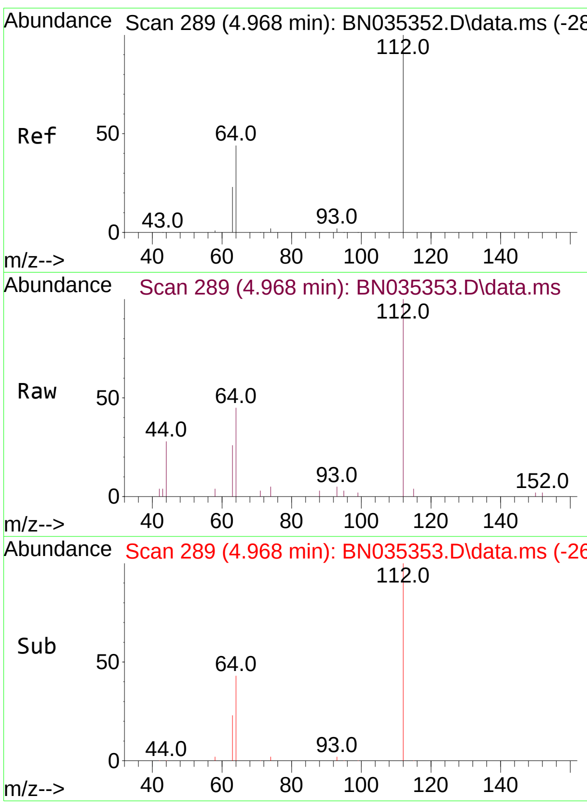


#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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#

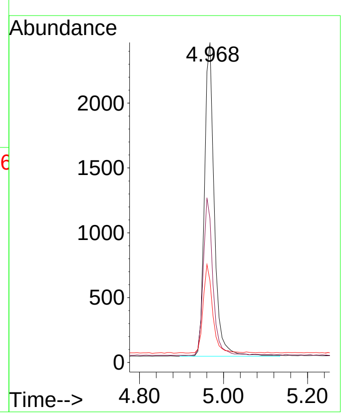




#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

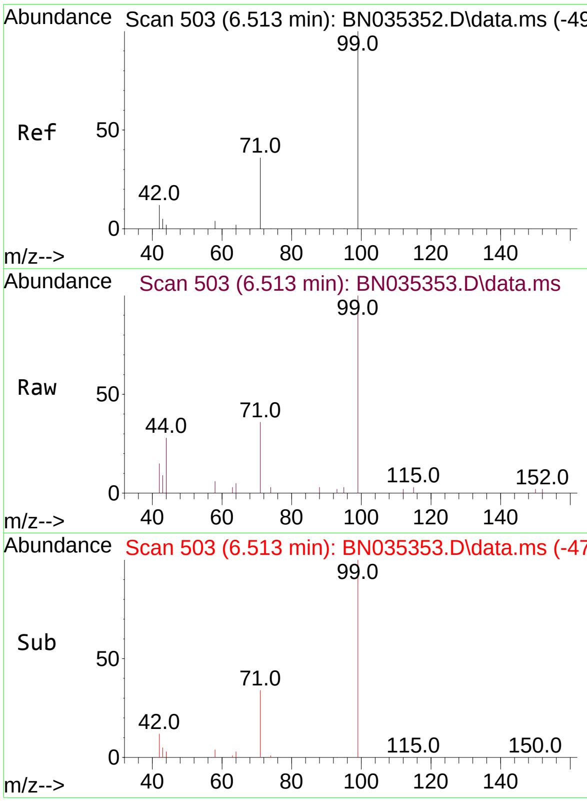
Tgt Ion:112 Resp: 3924

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



ICAL Form

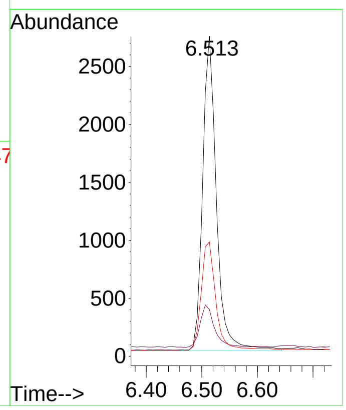
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

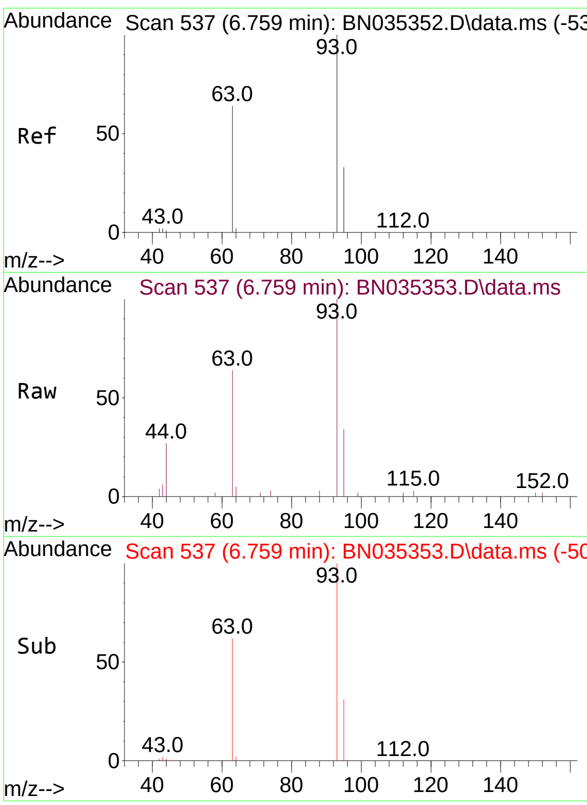


#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

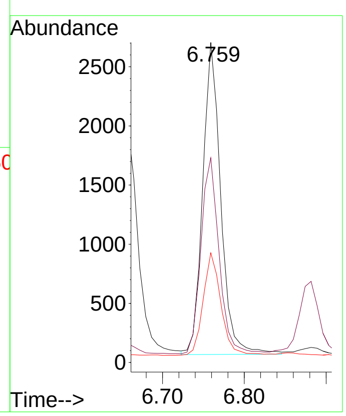




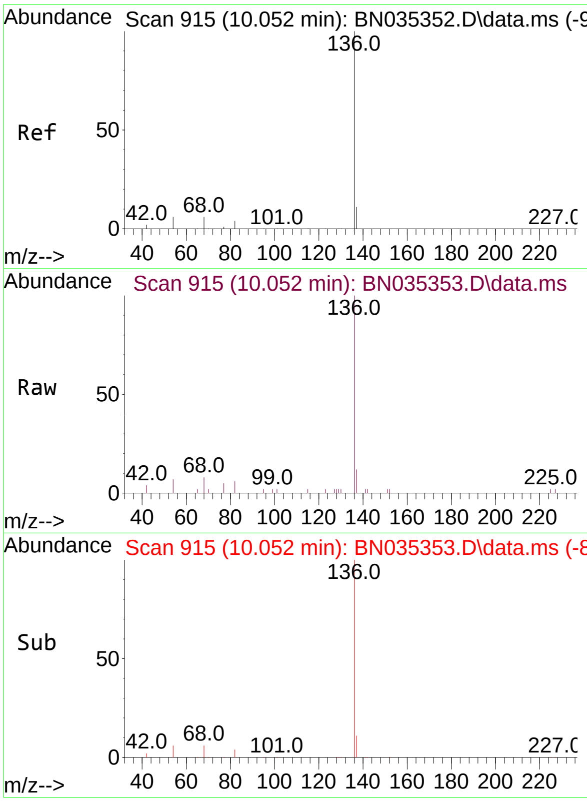
#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



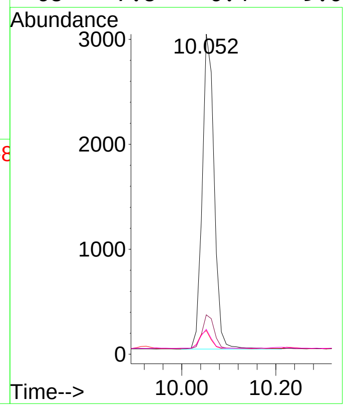
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

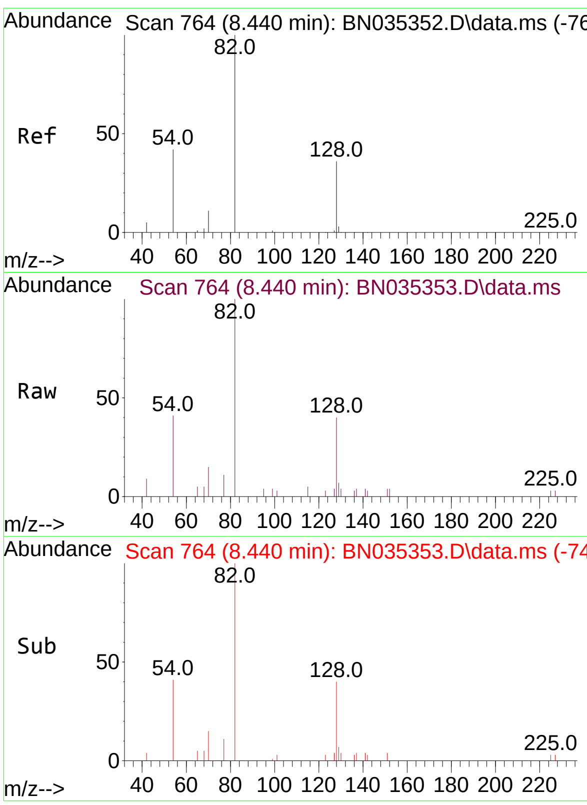


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

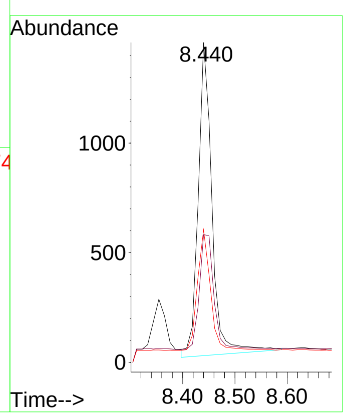




#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

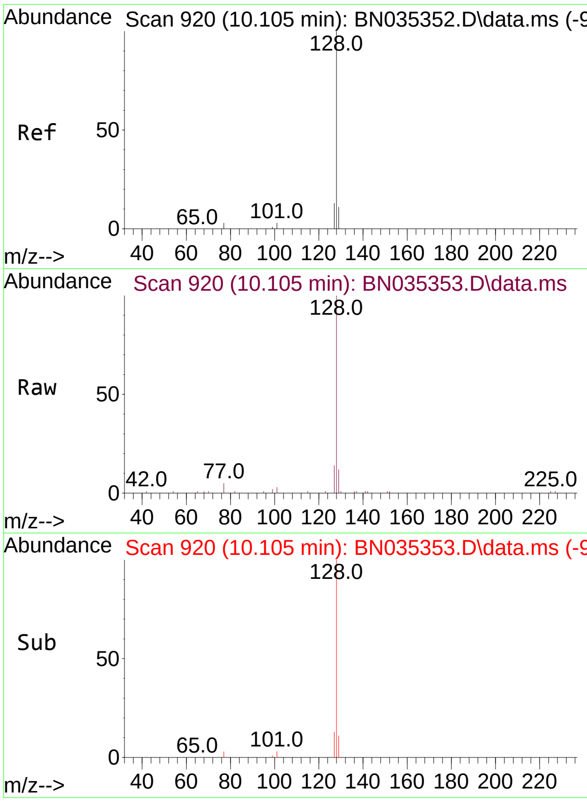
Tgt Ion: 82 Resp: 2634

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



ICAL Form

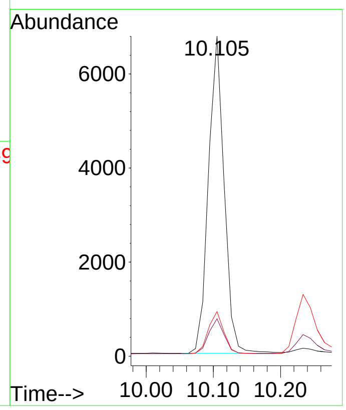
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

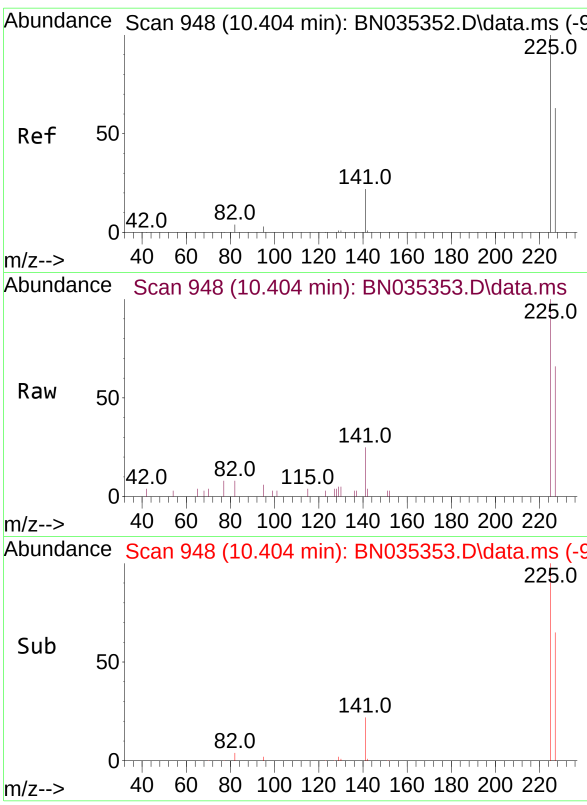


#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

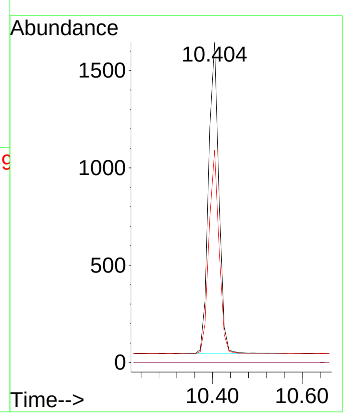




#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

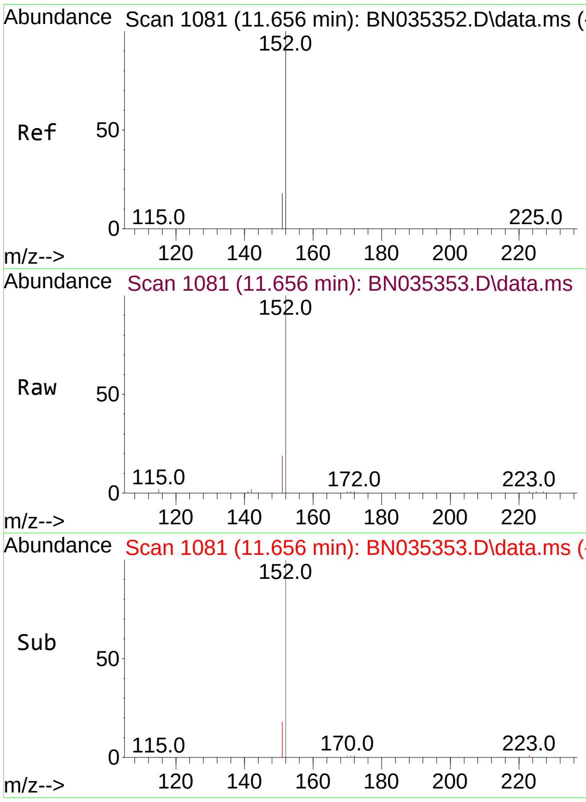
Tgt Ion:225 Resp: 2559

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



ICAL Form

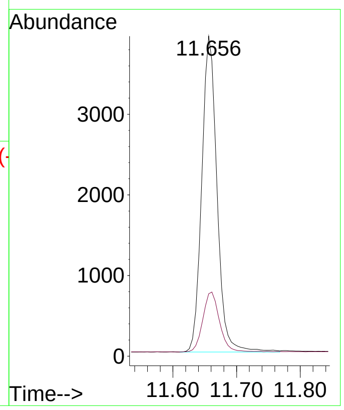
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

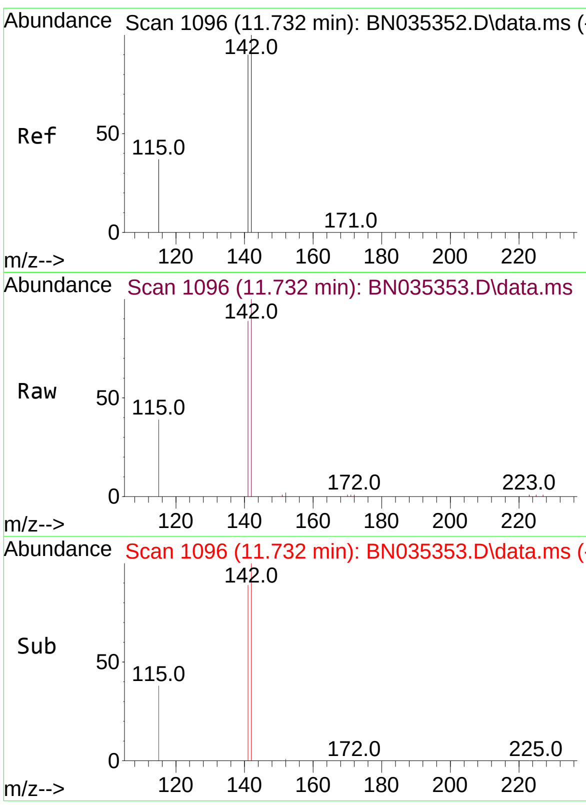


#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

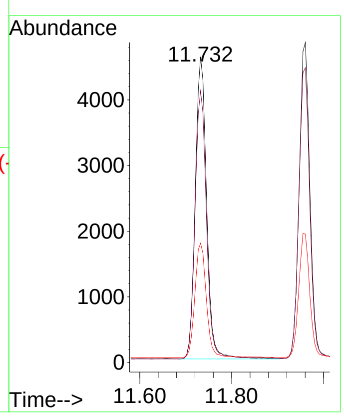




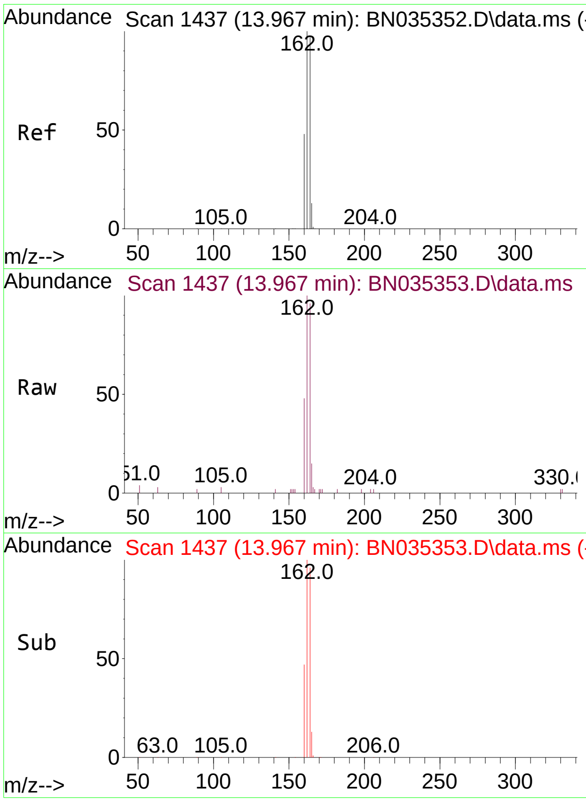
#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



ICAL Form



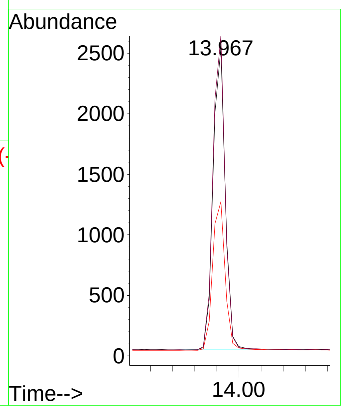
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14

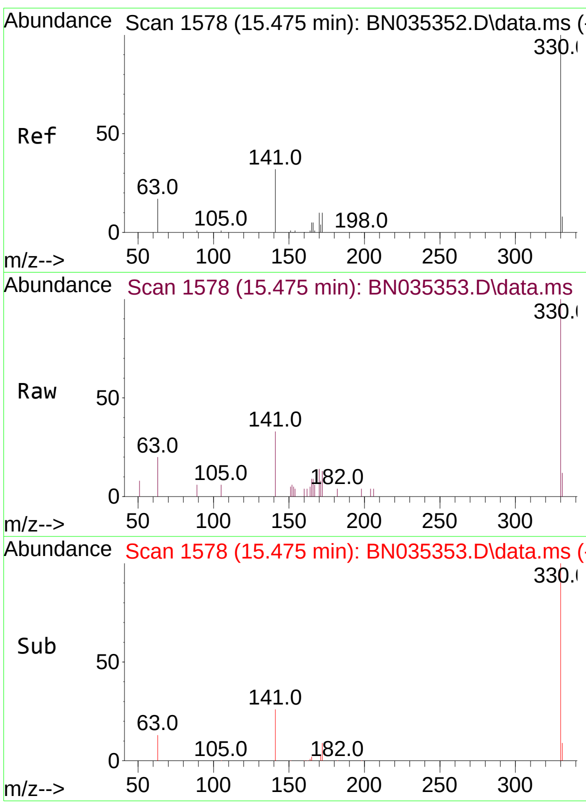
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

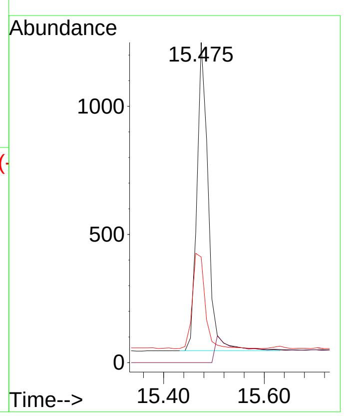


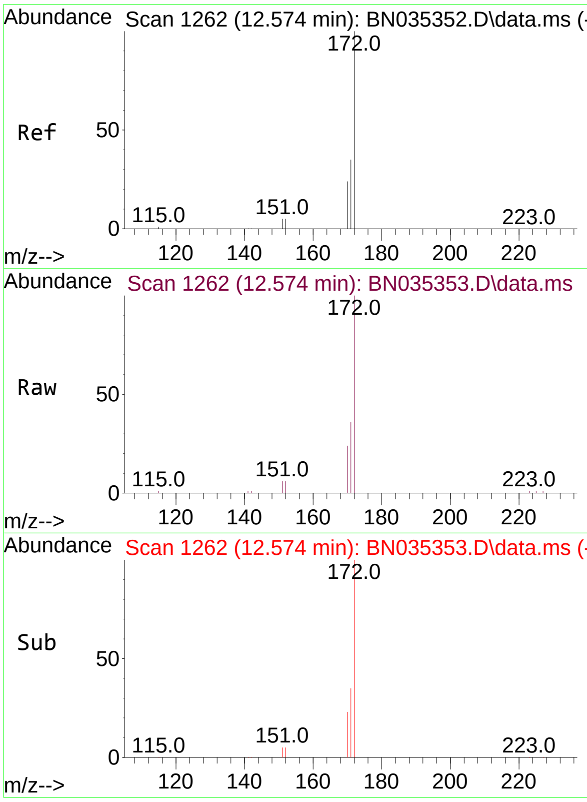


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



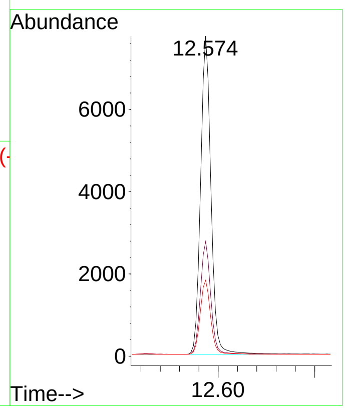


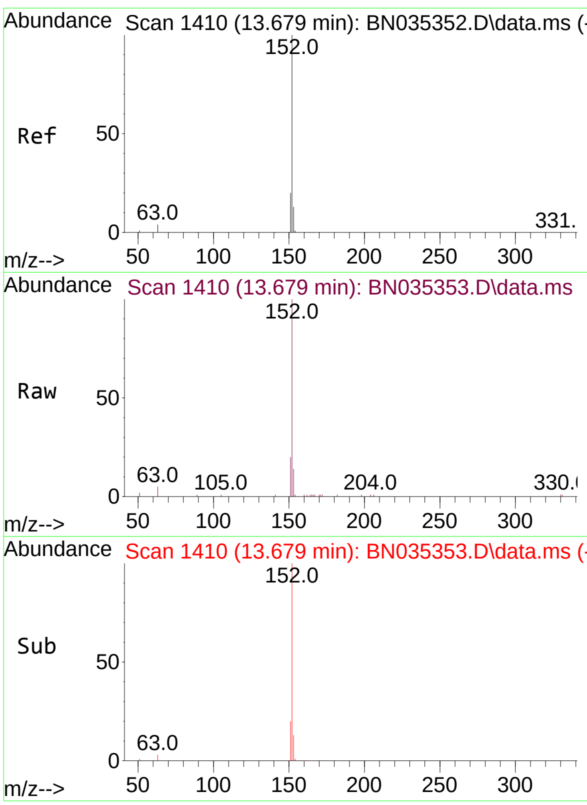
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

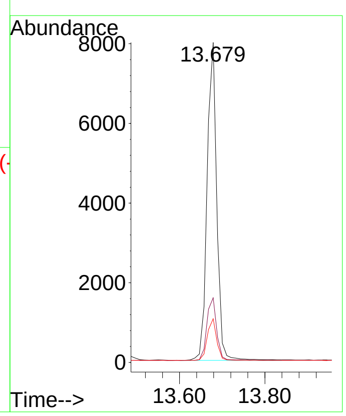




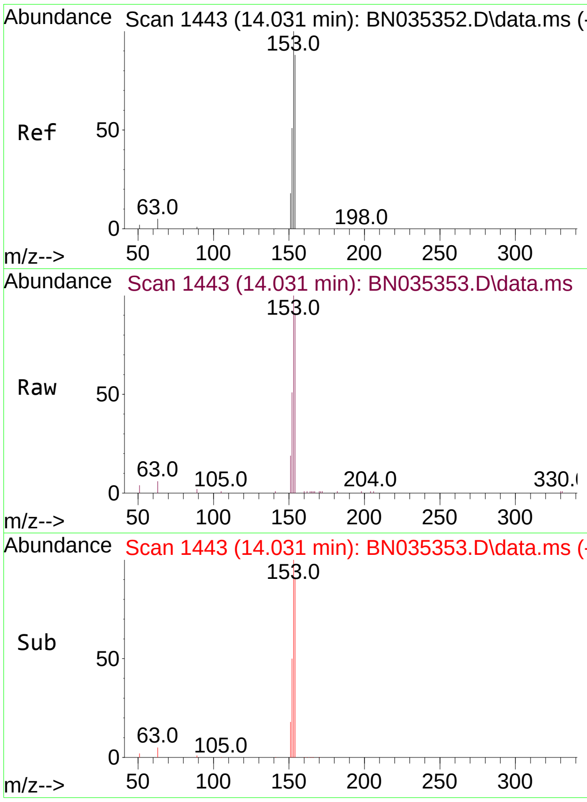
#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



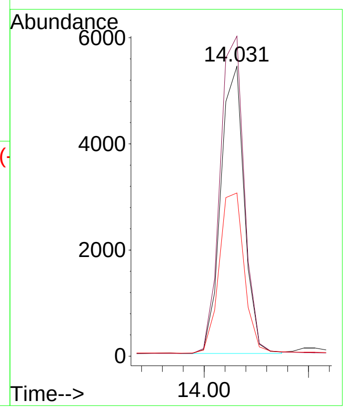
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

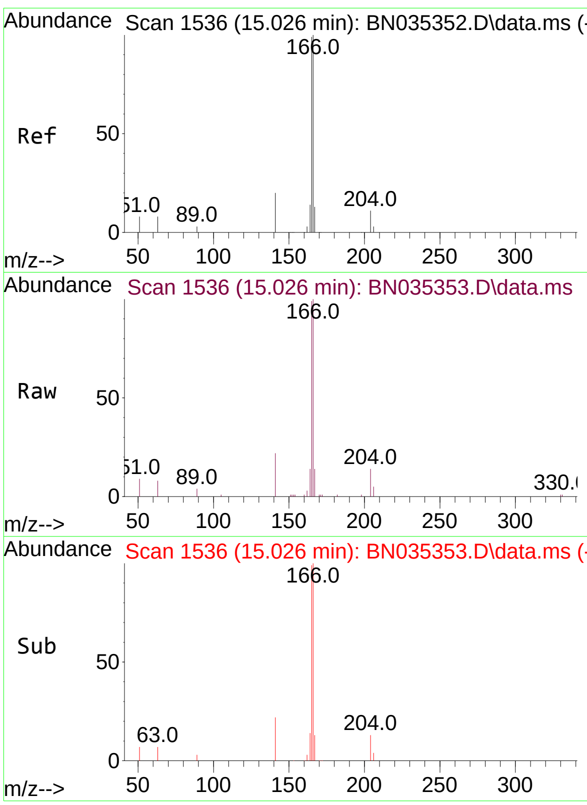


#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

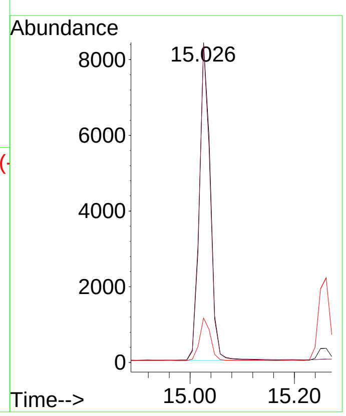




#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

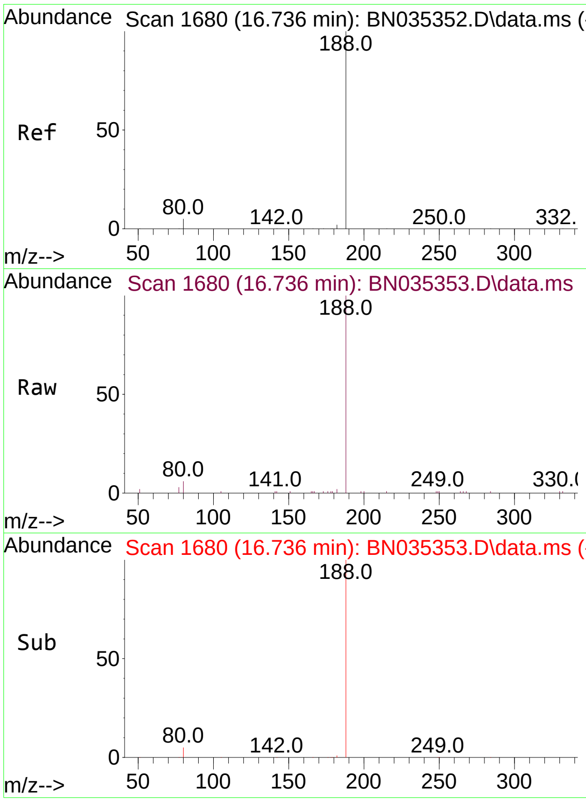
Tgt Ion:166 Resp: 12232

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



ICAL Form

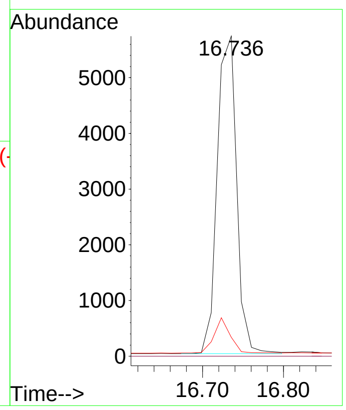
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

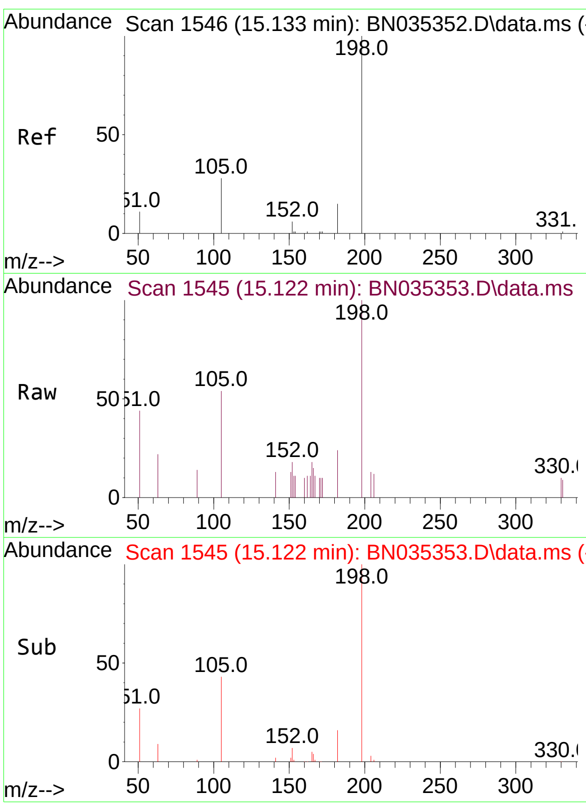


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

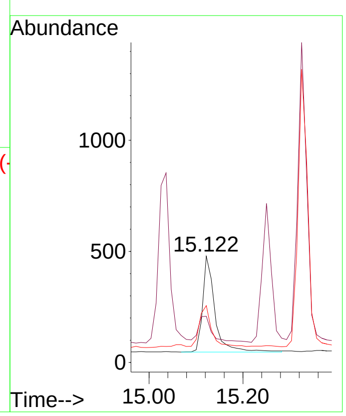




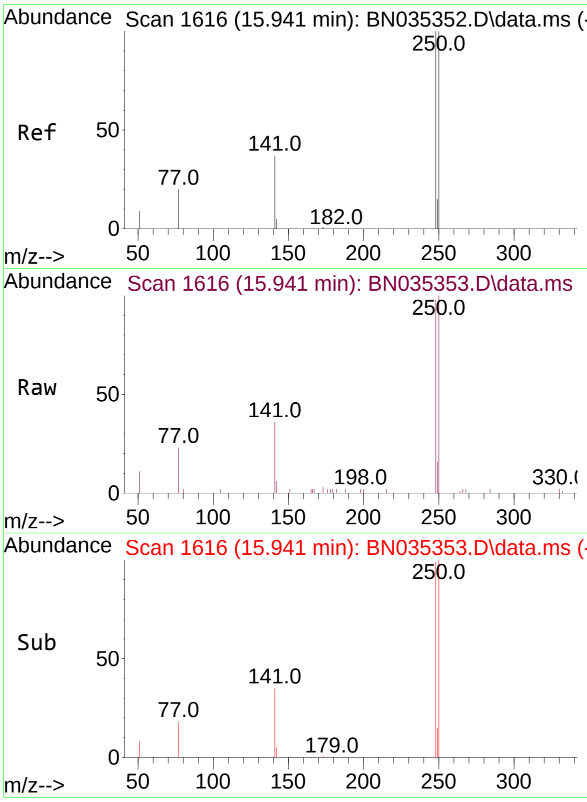
#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



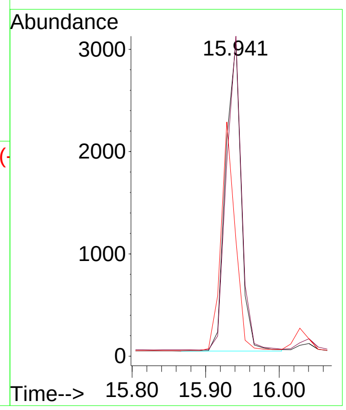
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

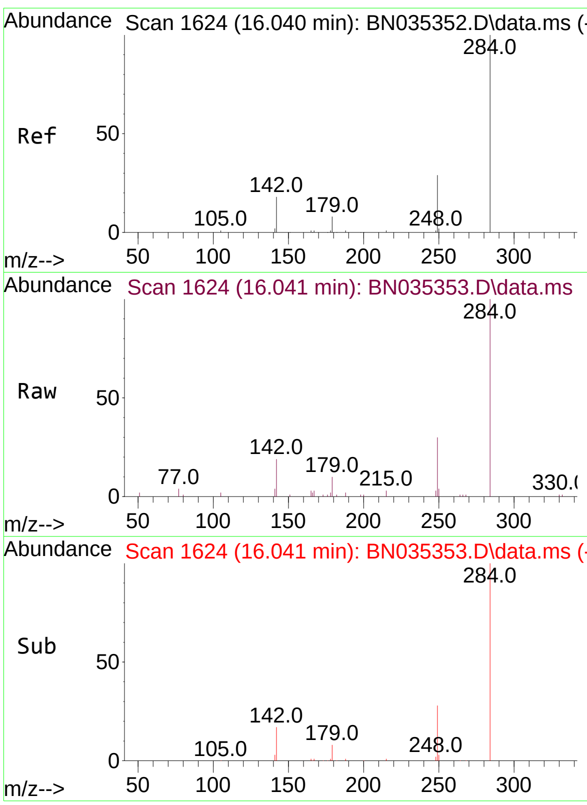


#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

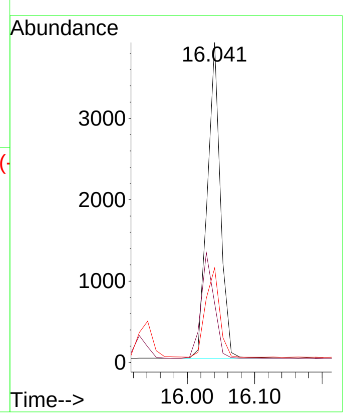




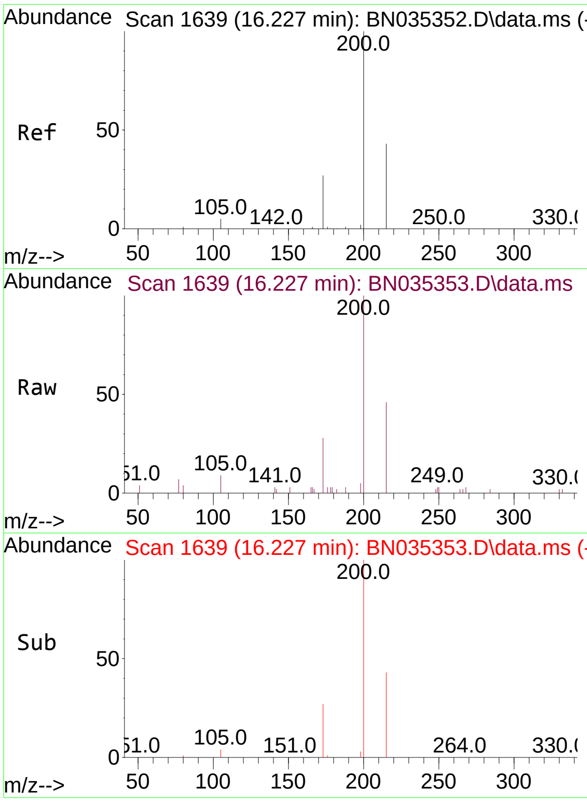
#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



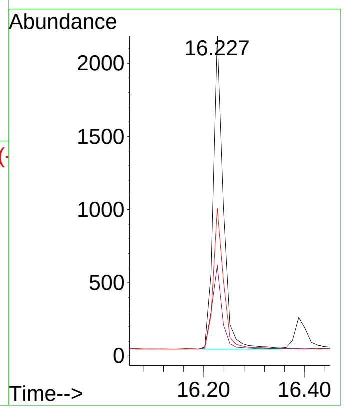
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

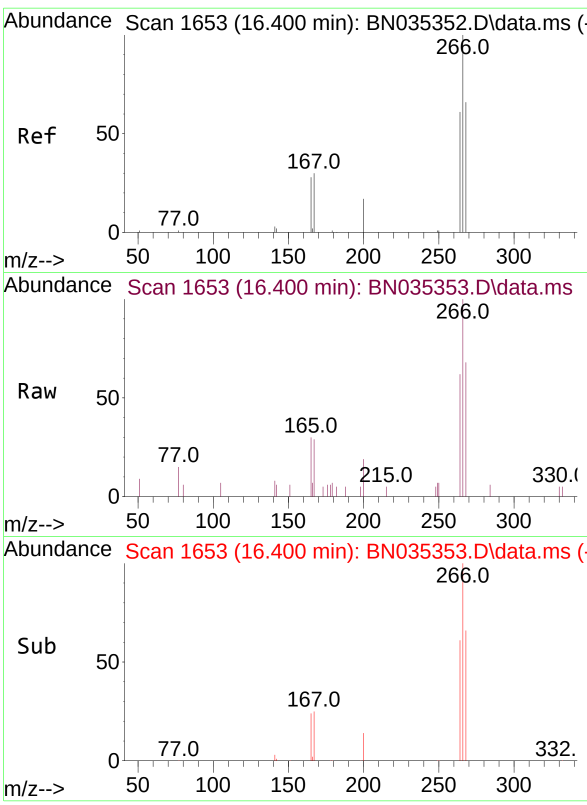


#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min   Scan# 1
Delta R.T.   0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024   17:21

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

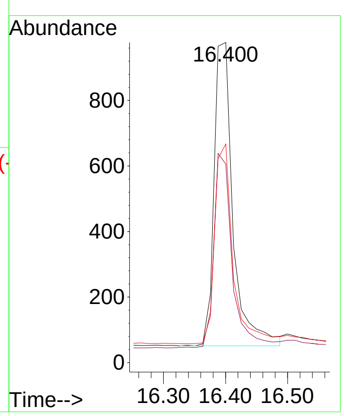




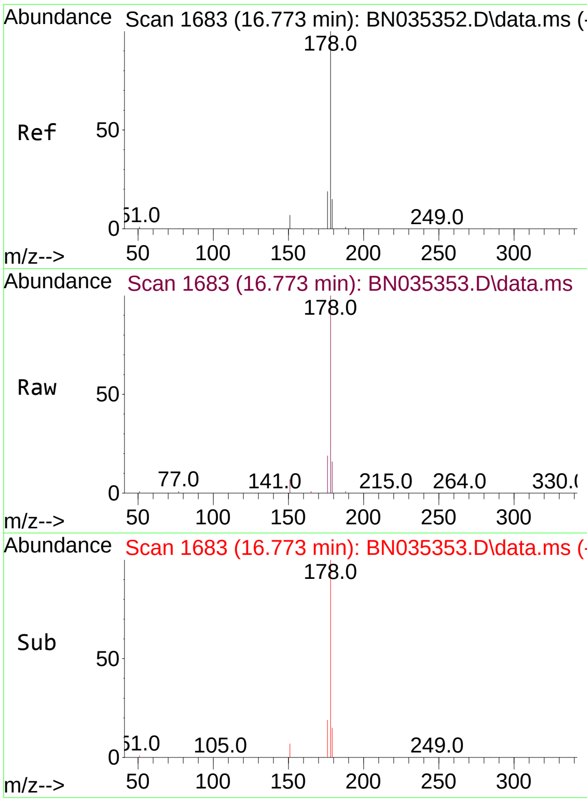
#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min   Scan# 1653
Delta R.T.   0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024   17:21

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



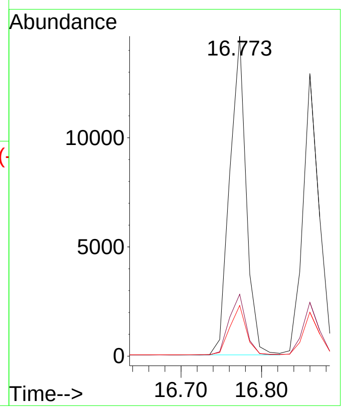
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

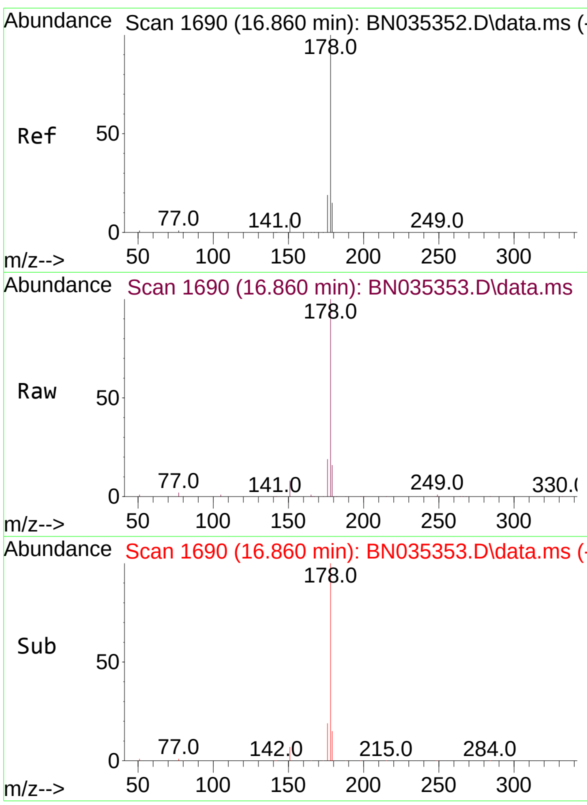


#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

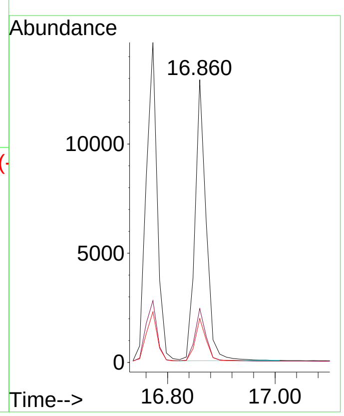




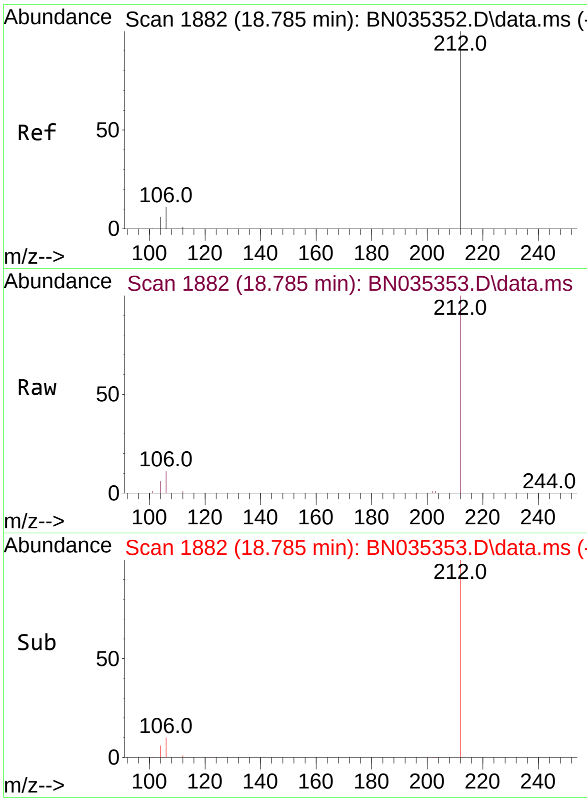
#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



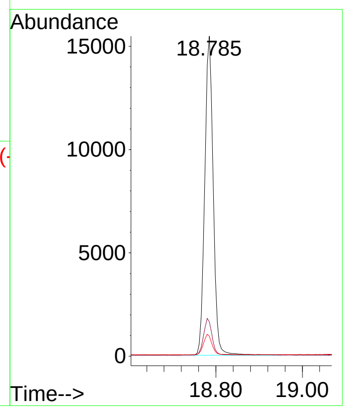
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

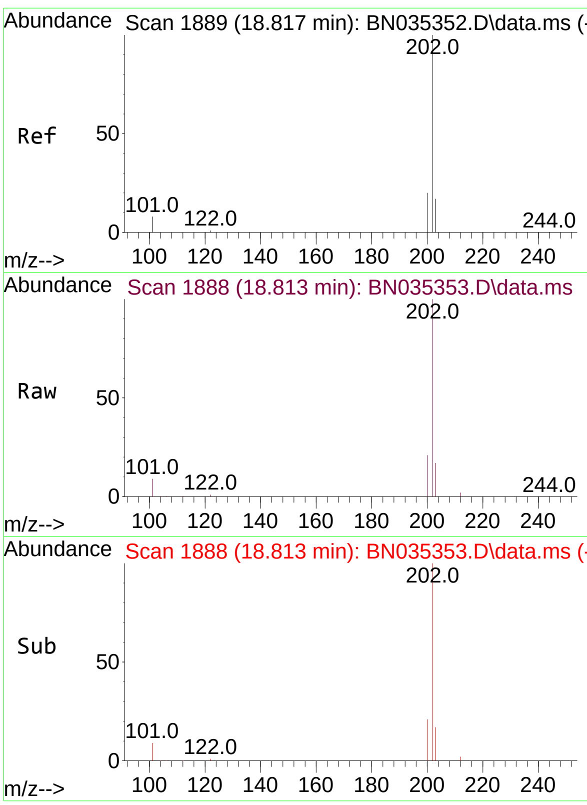


#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

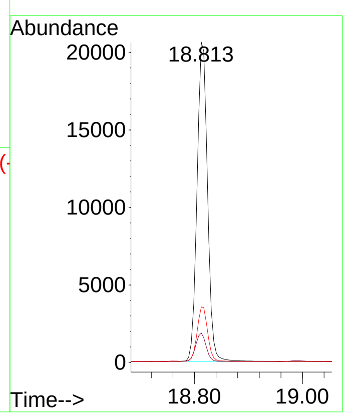




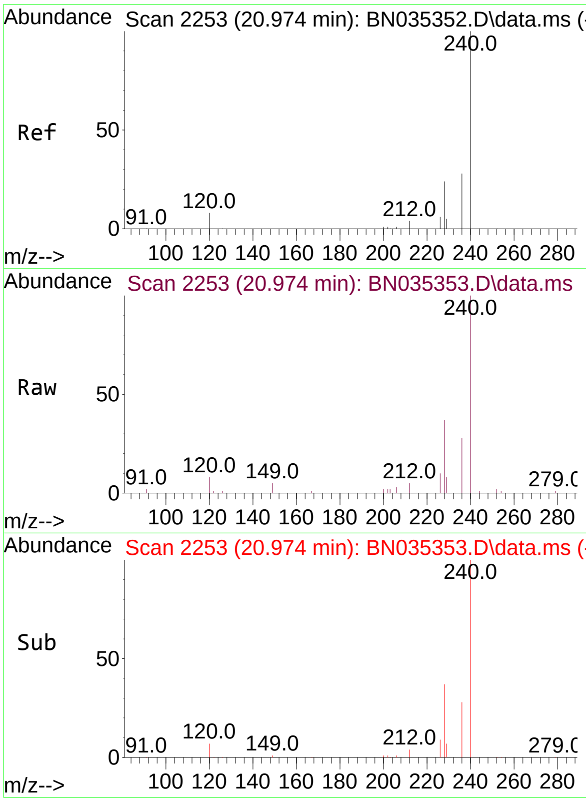
#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



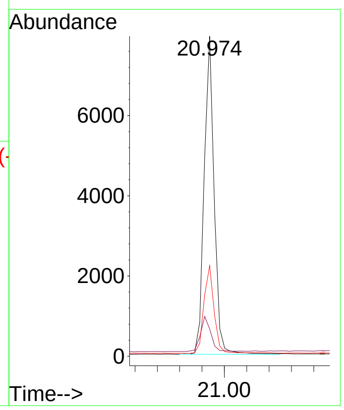
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

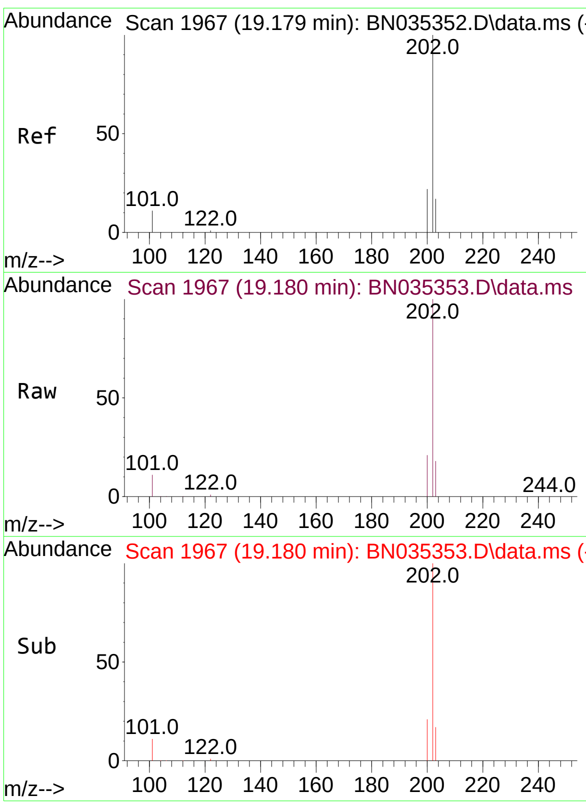


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

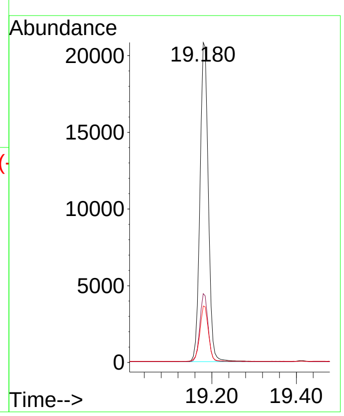




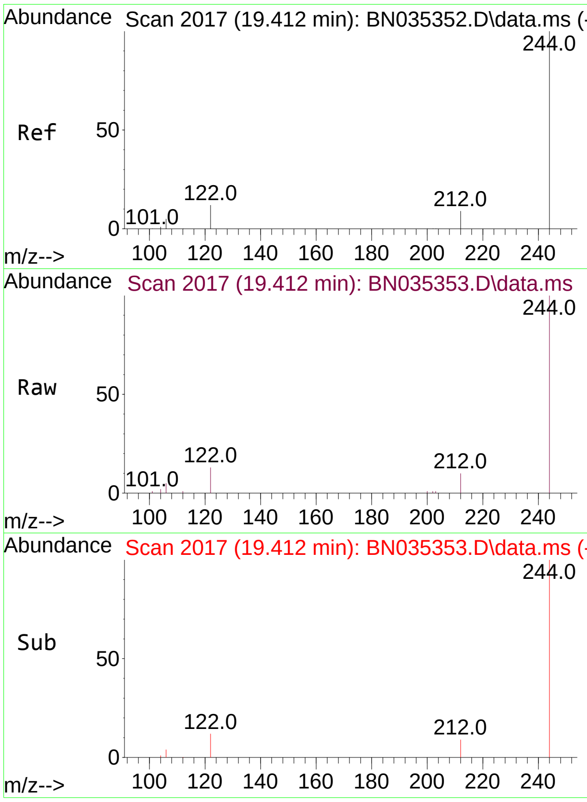
#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



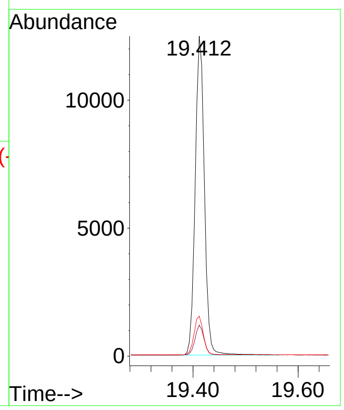
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

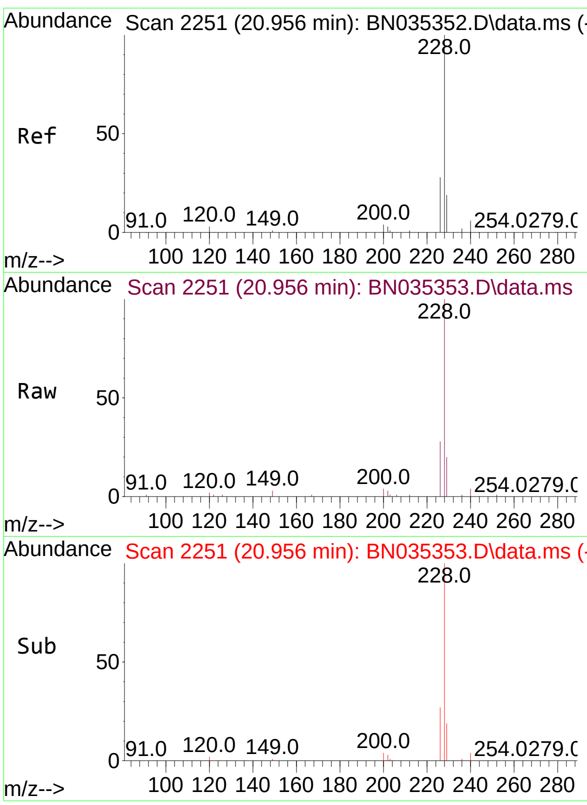


#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

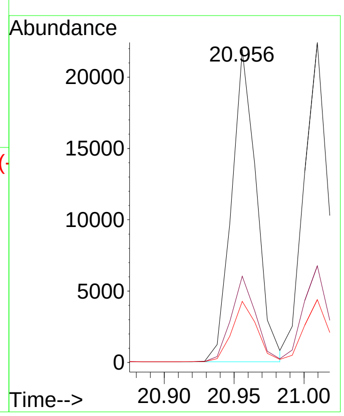




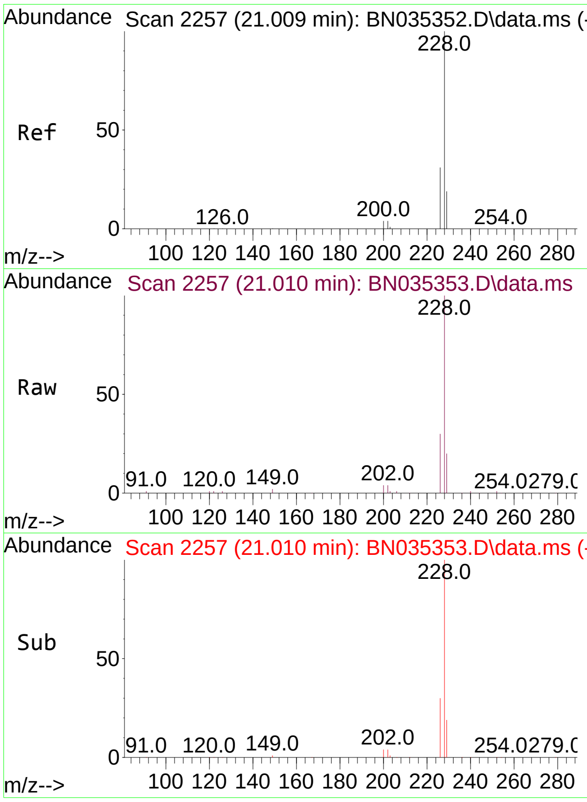
#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



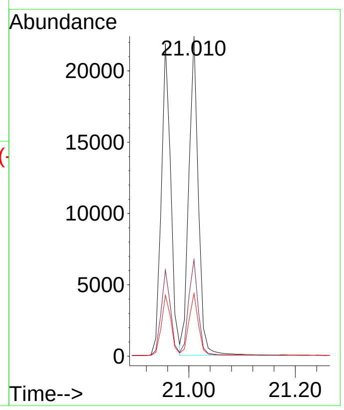
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

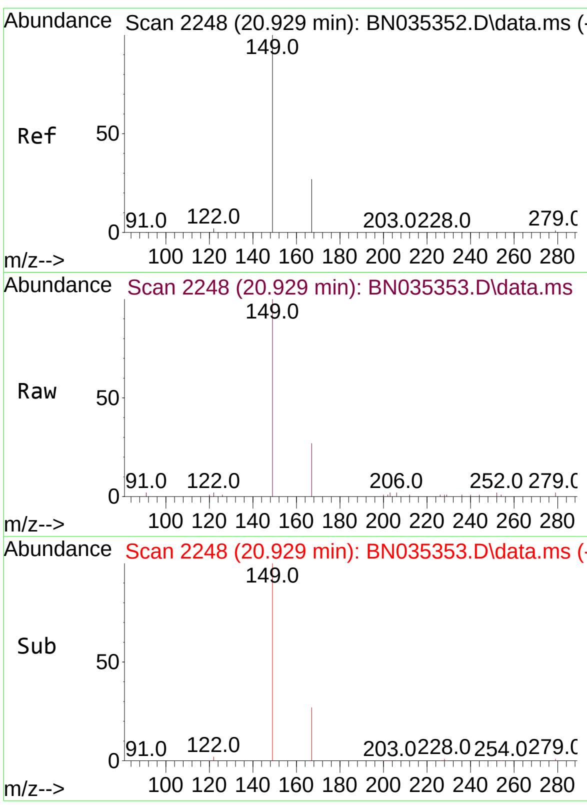


#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

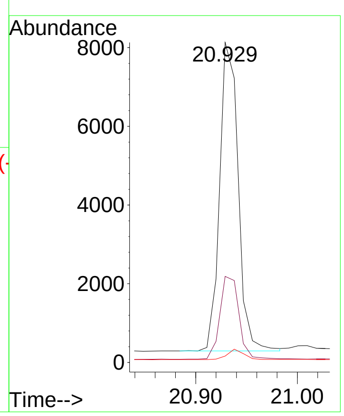




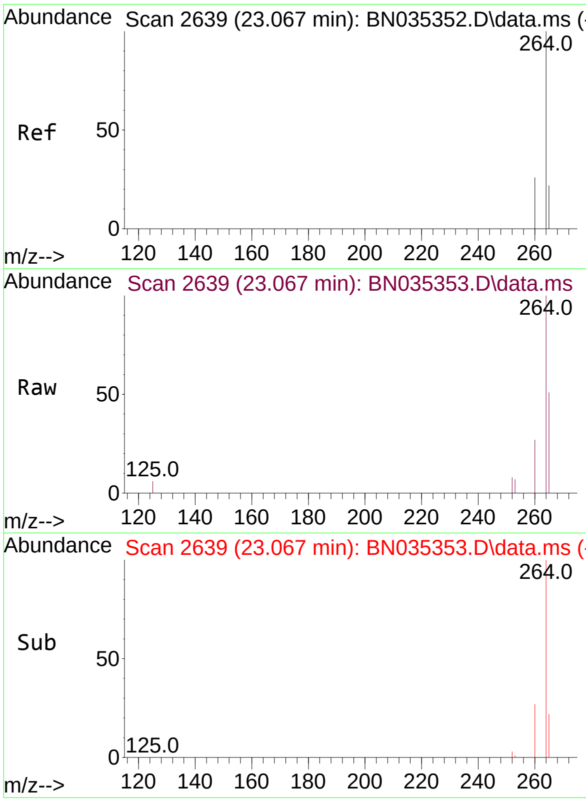
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



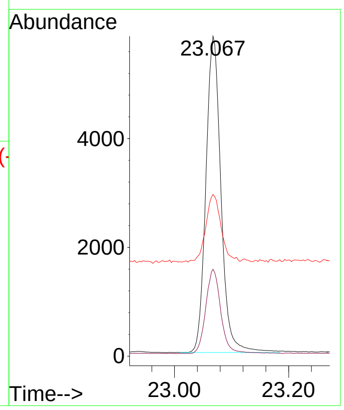
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

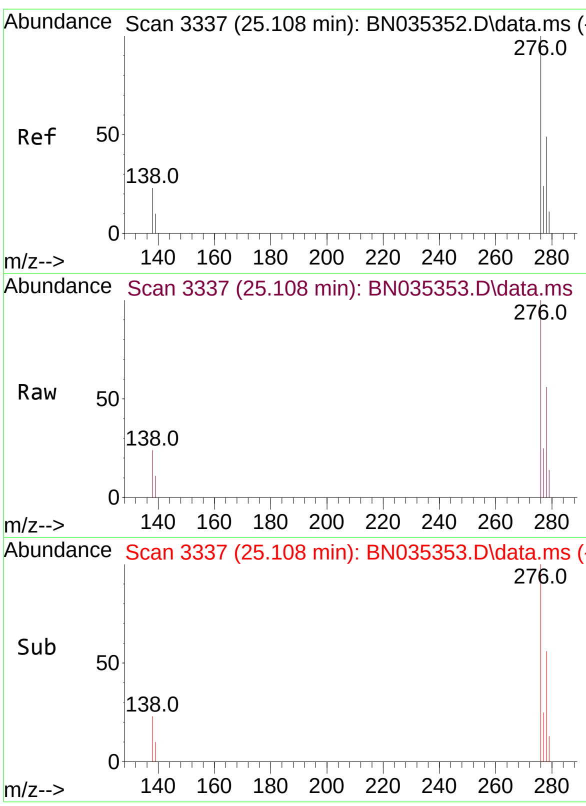


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

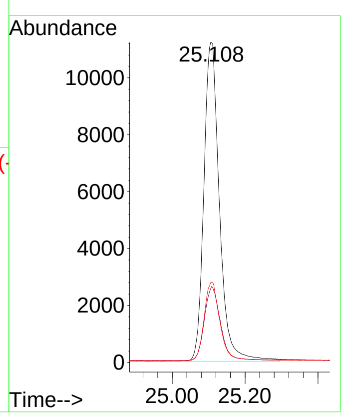




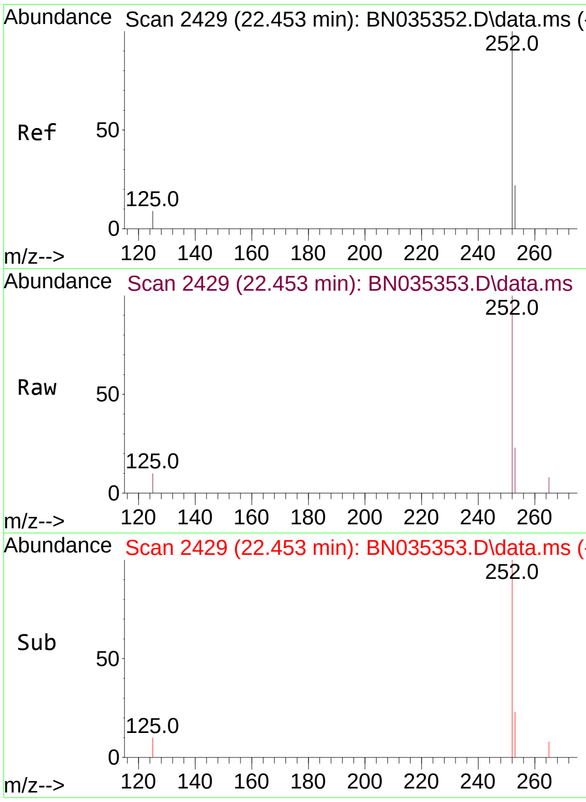
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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



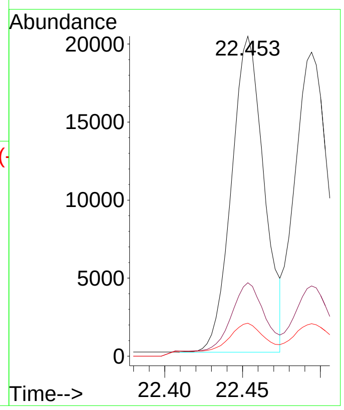
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

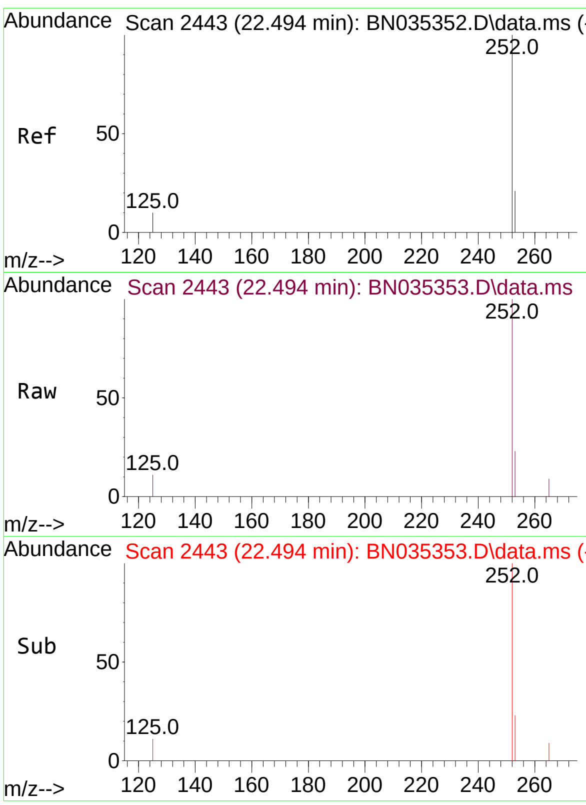


#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

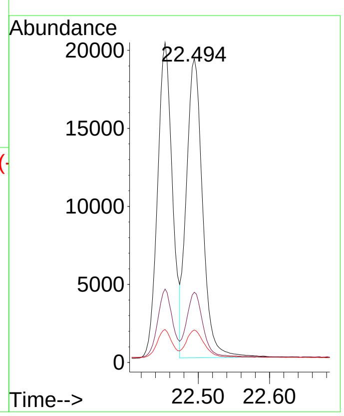




#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

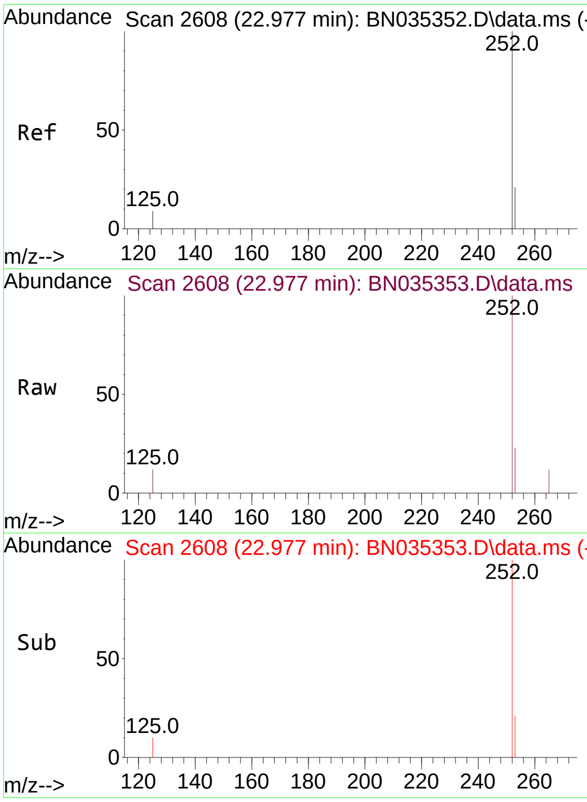
Tgt Ion:252 Resp: 30369

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

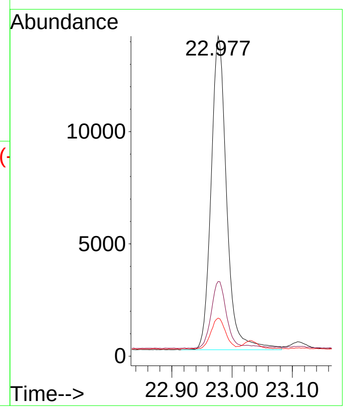


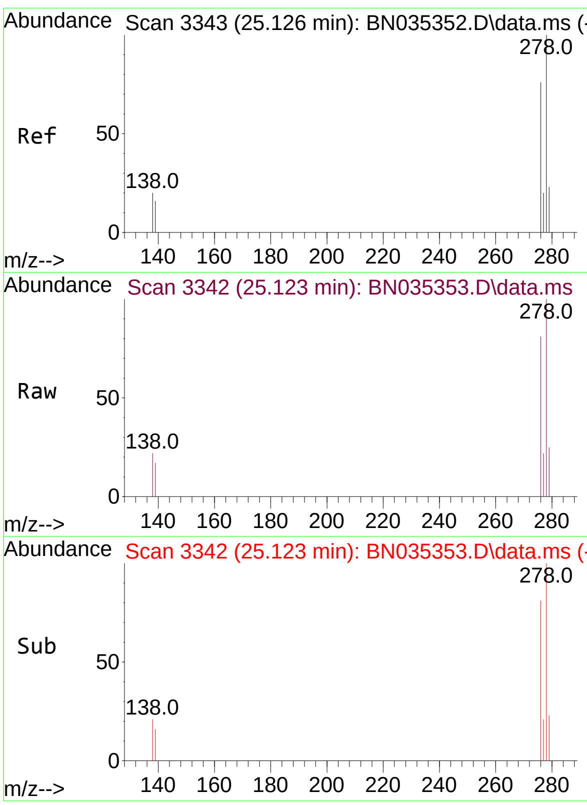
ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

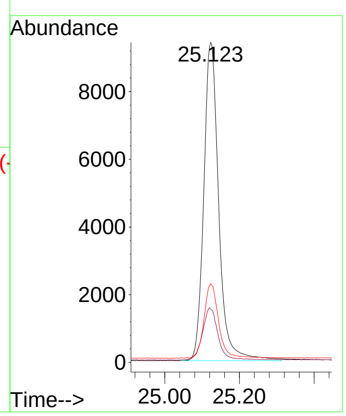



```
#39
Benzo(a)pyrene
Concen:     0.791 ng
RT:  22.977 min  Scan# 2(
Delta R.T.  0.000 min
Lab File:   BN035353.D
Acq: 27 Nov 2024  17:21

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
```

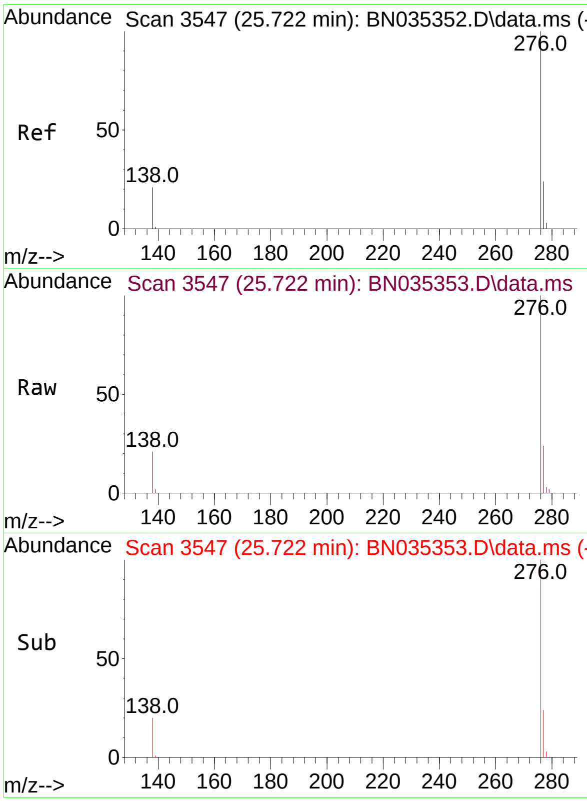





```
#40
Dibenzo(a,h)anthracene
Concen:     0.775 ng
RT:  25.123 min  Scan# 3342
Delta R.T.  -0.003 min
Lab File:   BN035353.D
Acq: 27 Nov 2024  17:21

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
```



ICAL Form

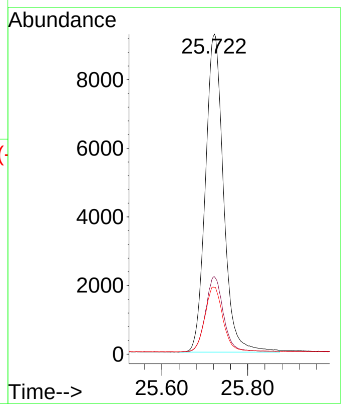


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3547
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

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

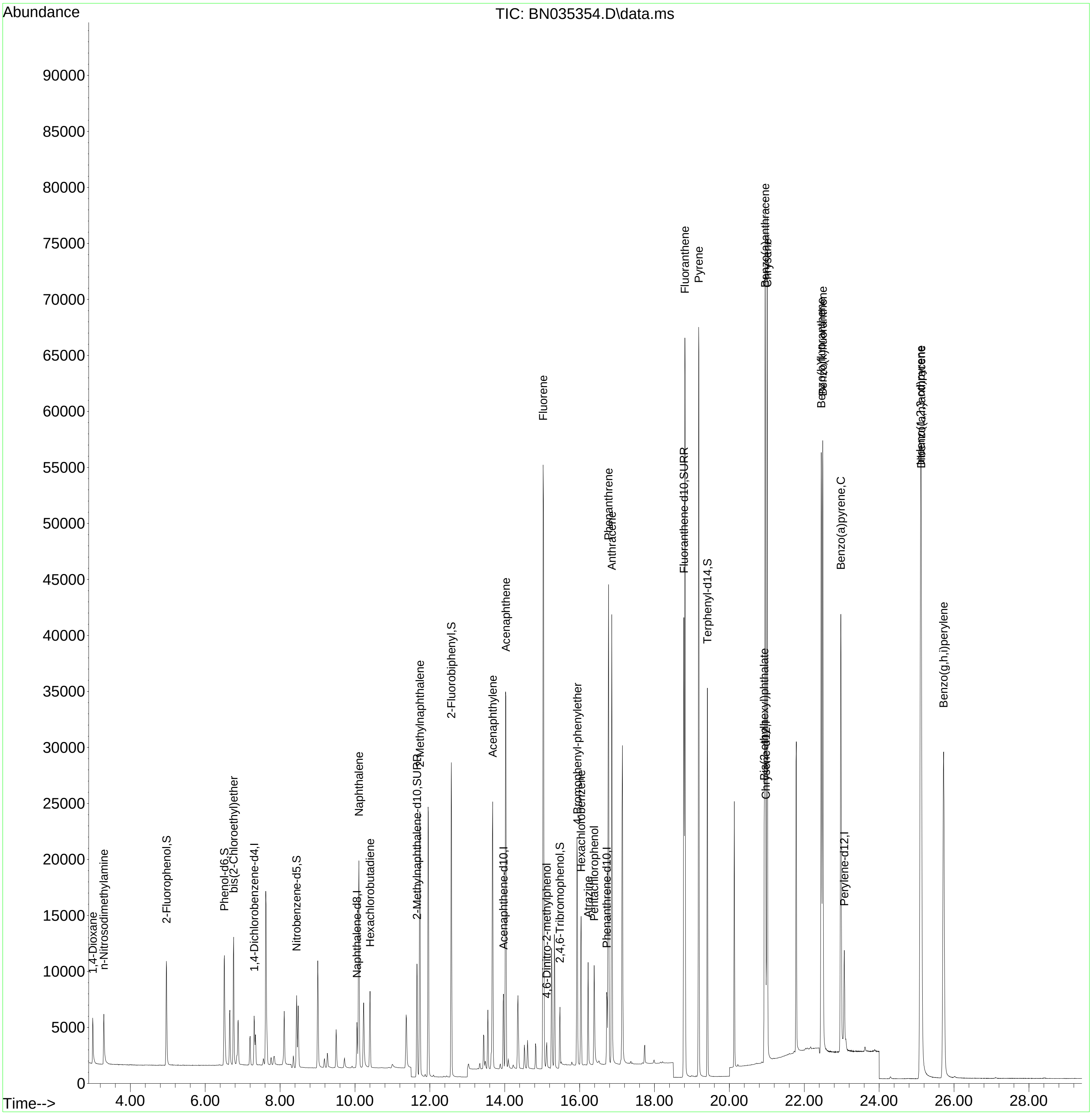
Quantitation Report (QT Reviewed)

ICAL Form

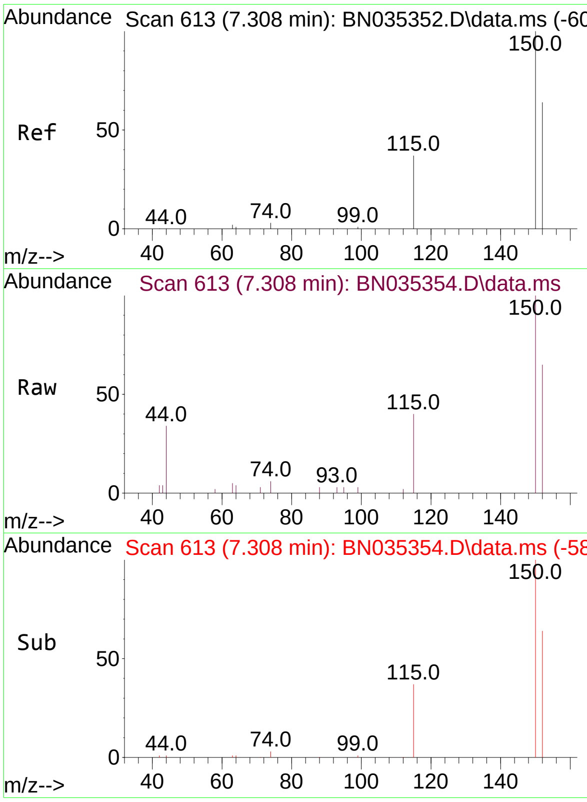
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035354.D
Acq On : 27 Nov 2024 17:57
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

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



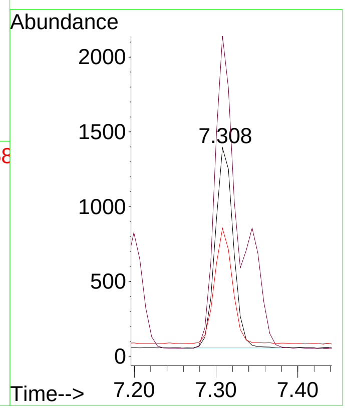
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

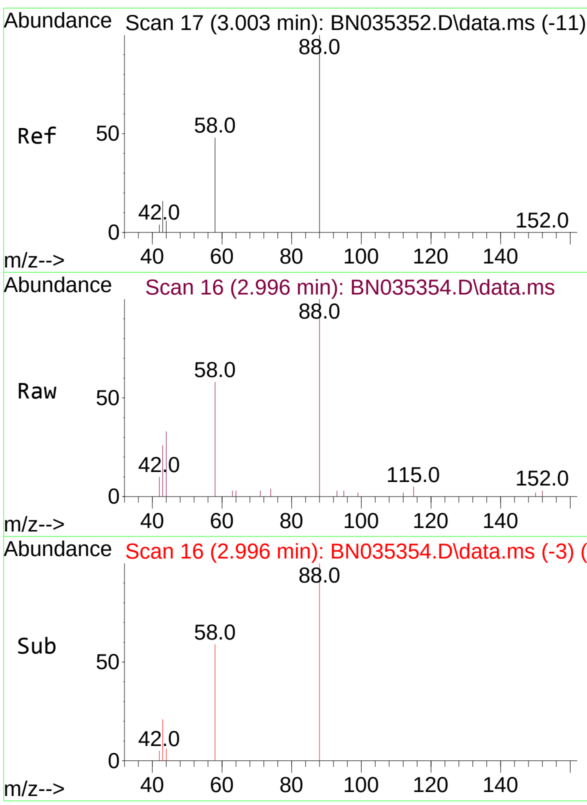


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

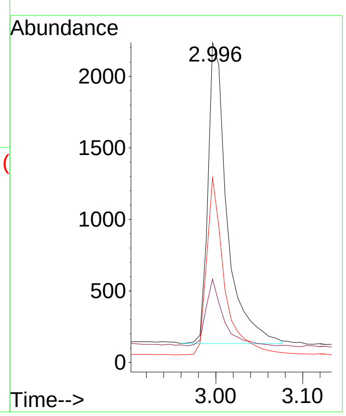




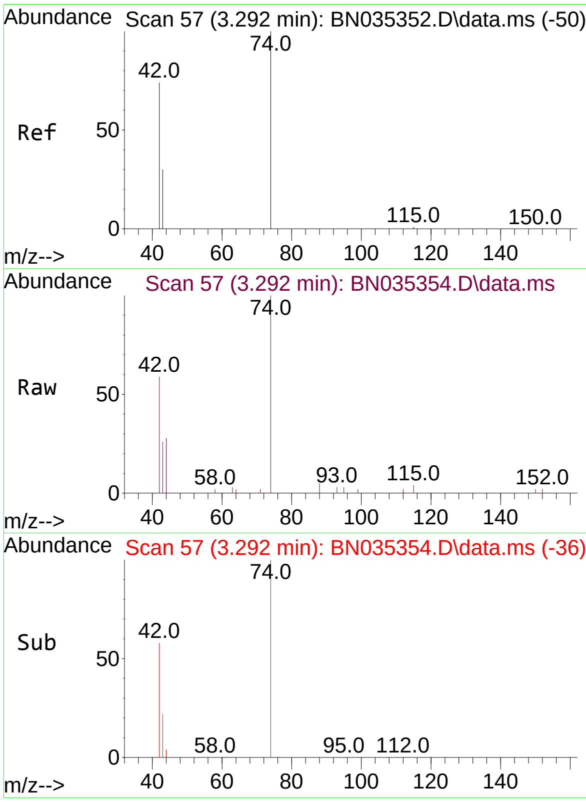
#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



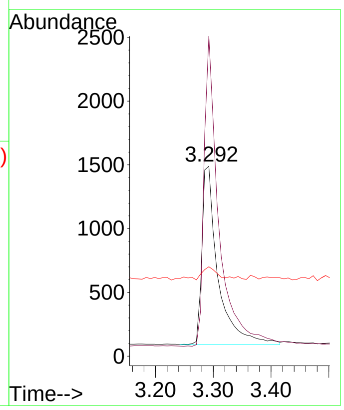
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

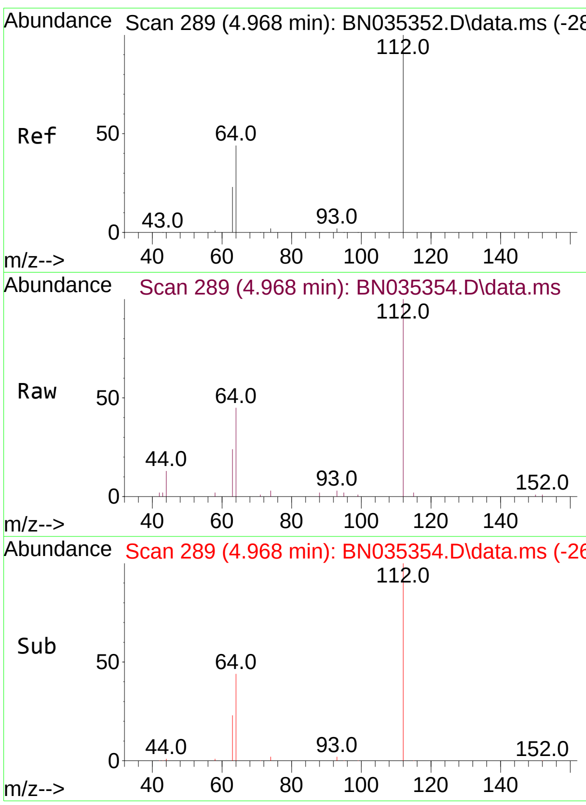


#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 57
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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#

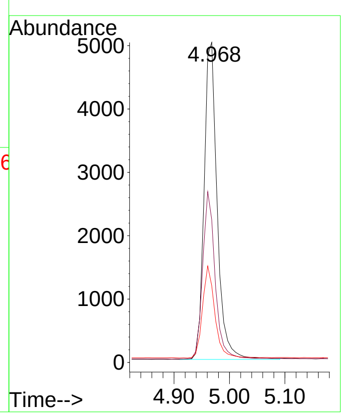




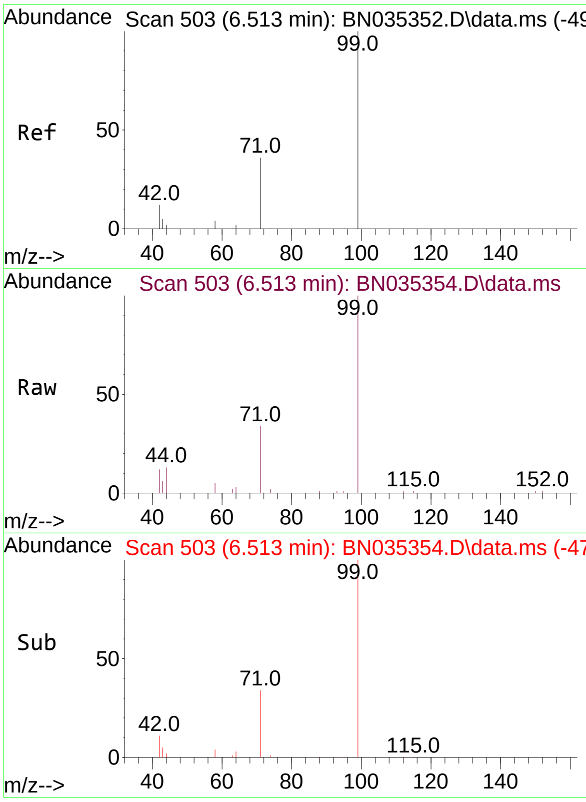
#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



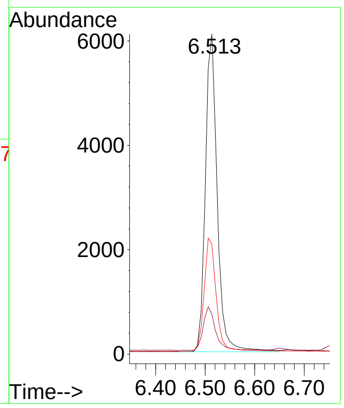
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

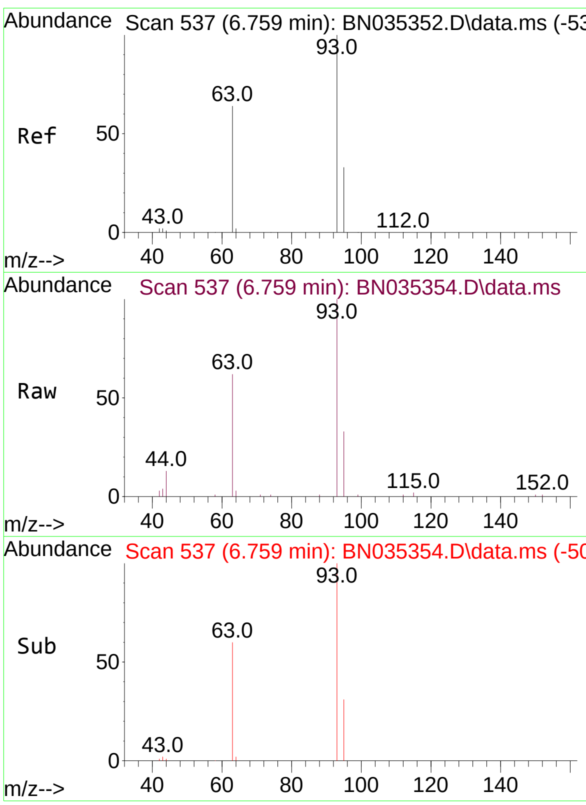


#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

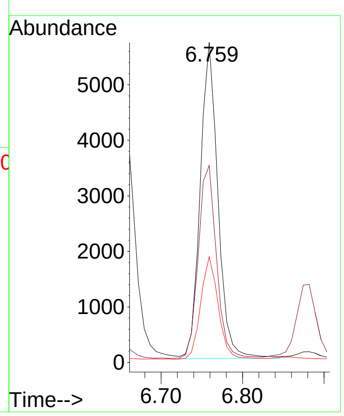




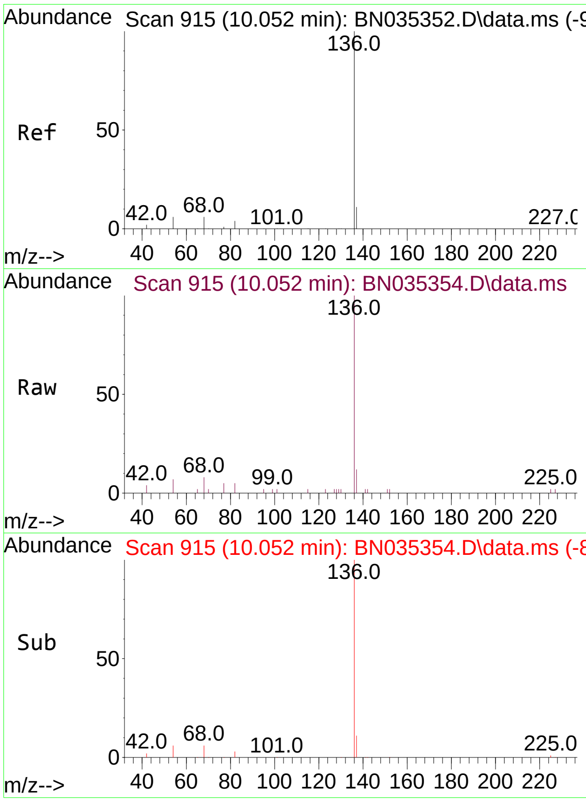
#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



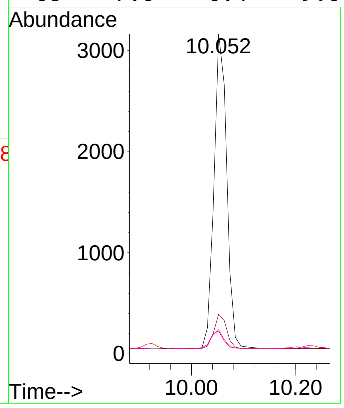
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

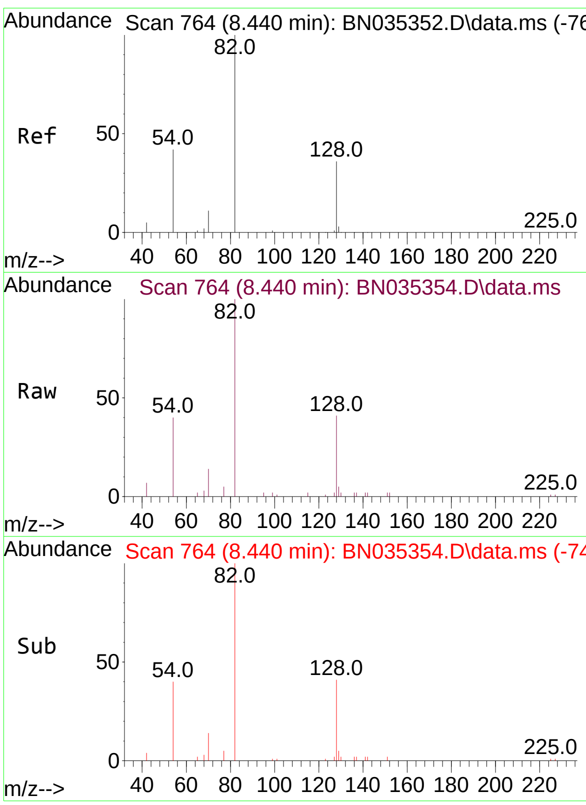


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

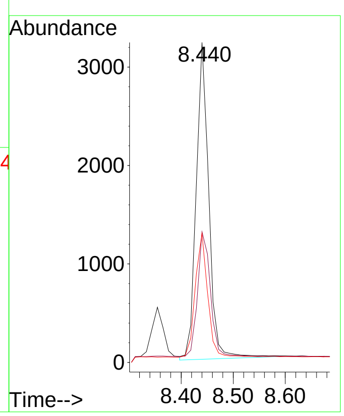




#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

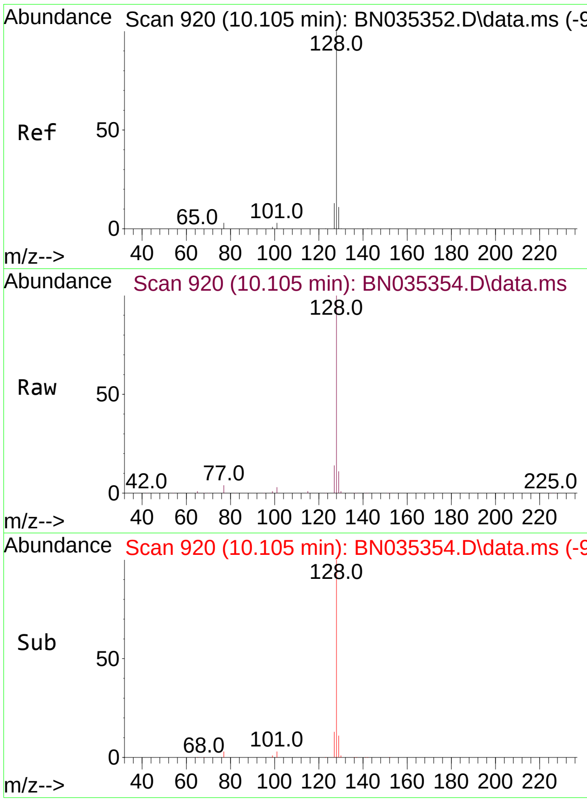
Tgt Ion: 82 Resp: 5450

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



ICAL Form

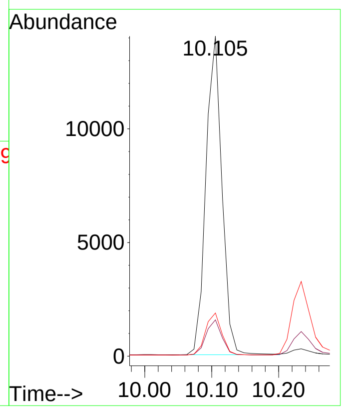
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

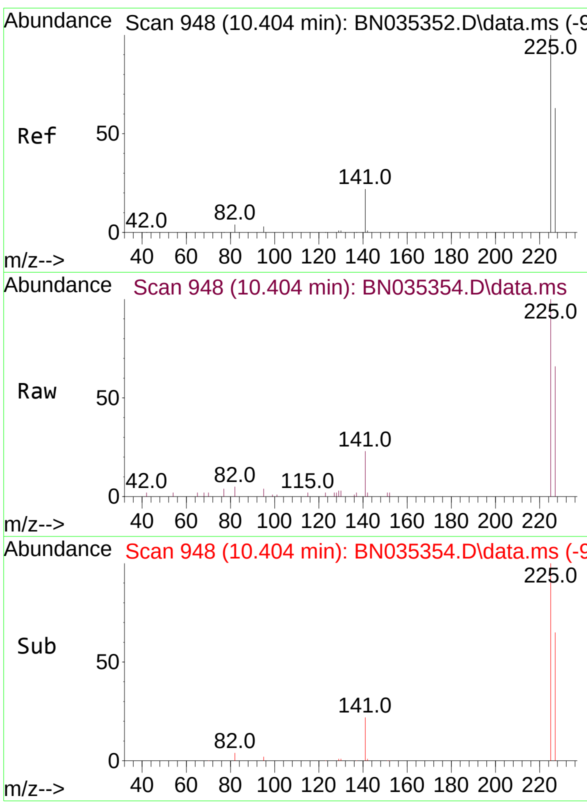


#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

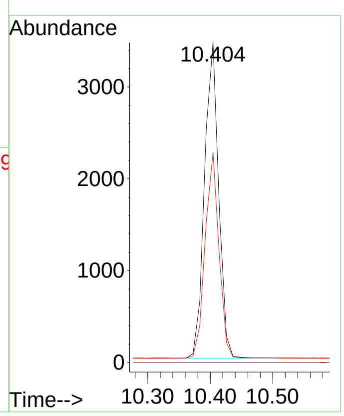




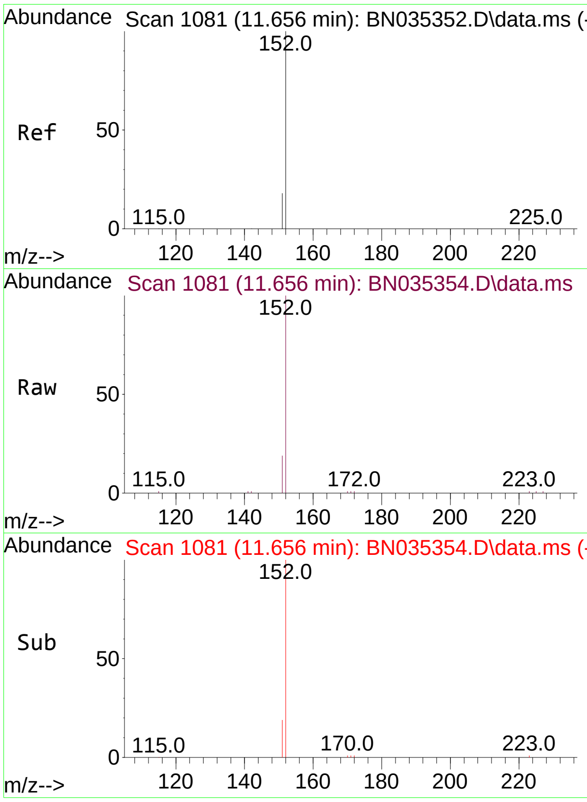
#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



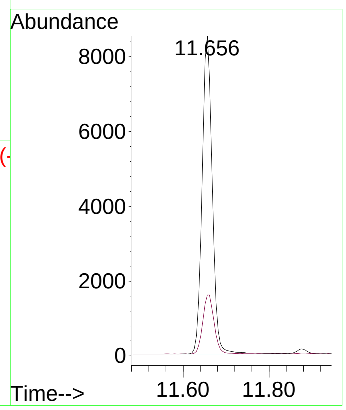
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

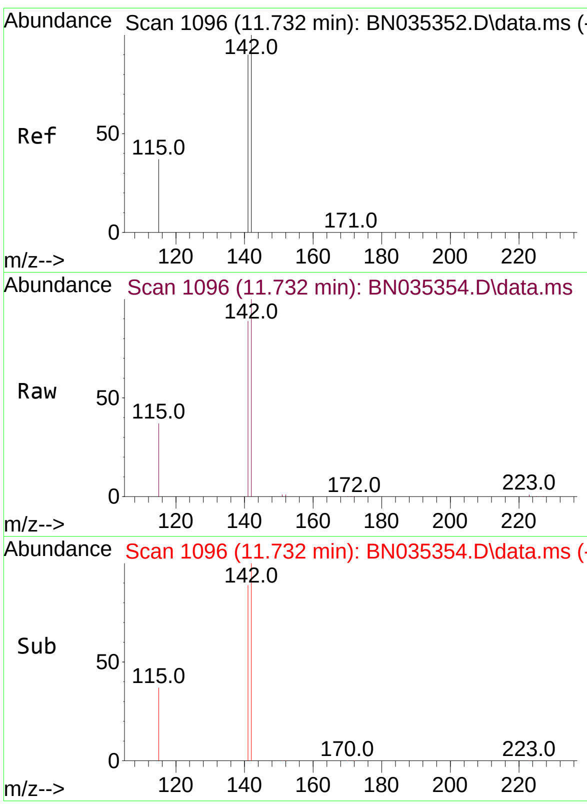


#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

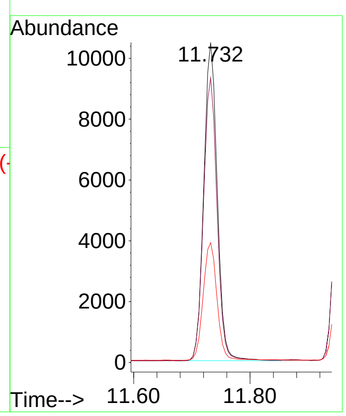




#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

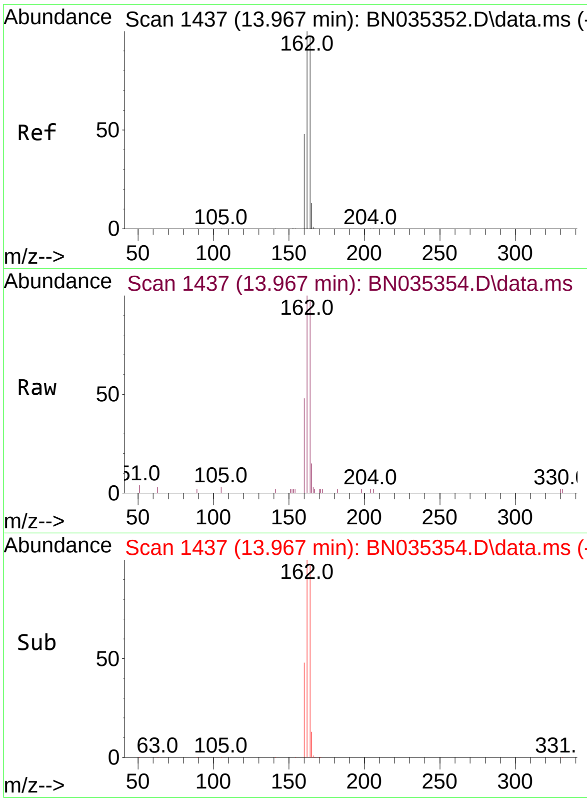
Tgt Ion:142 Resp: 16881

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



ICAL Form

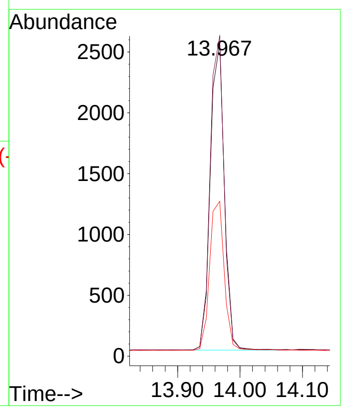
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

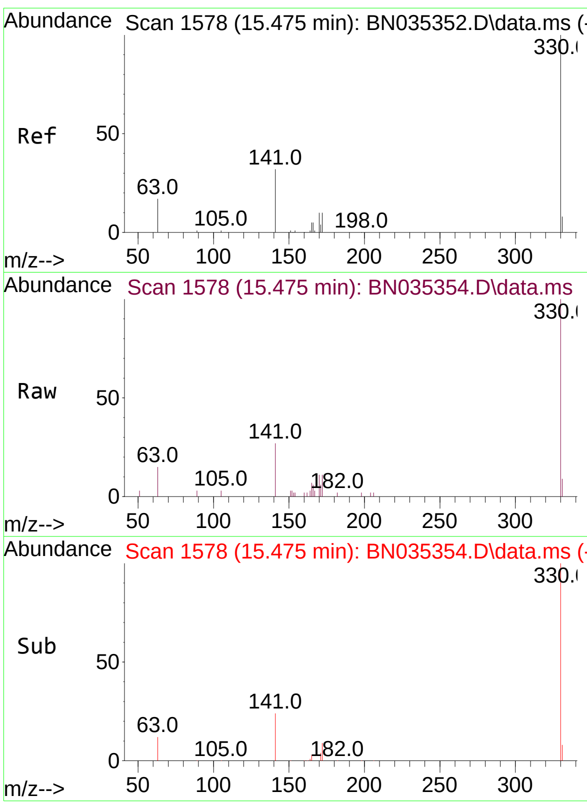


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

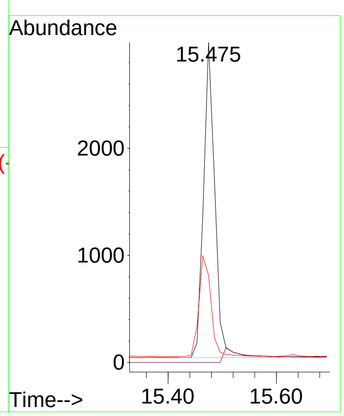




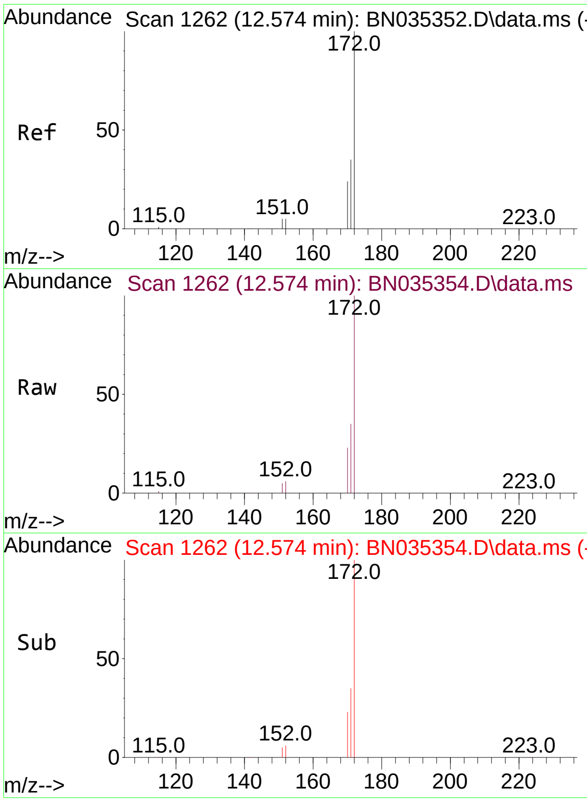
#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



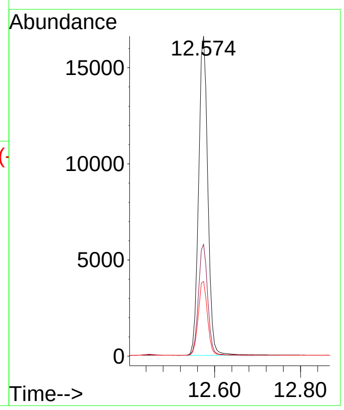
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

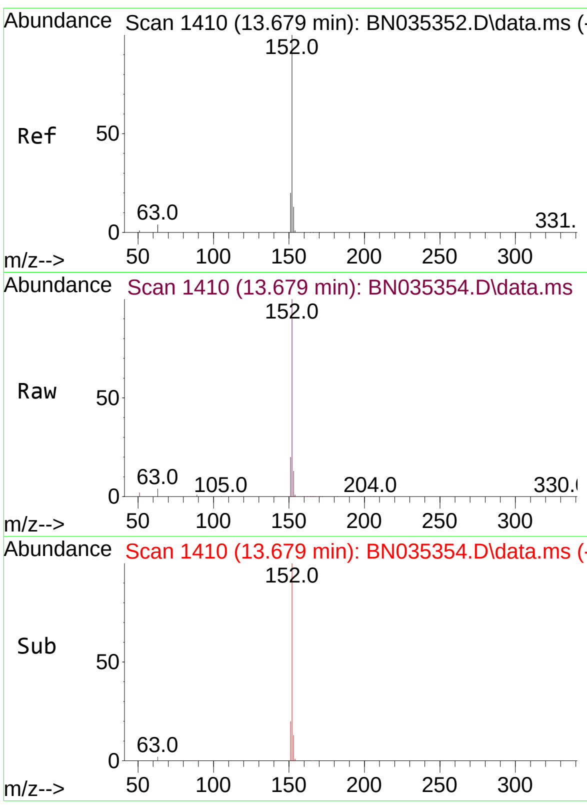


#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

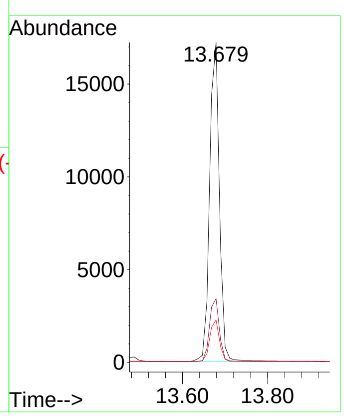




#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

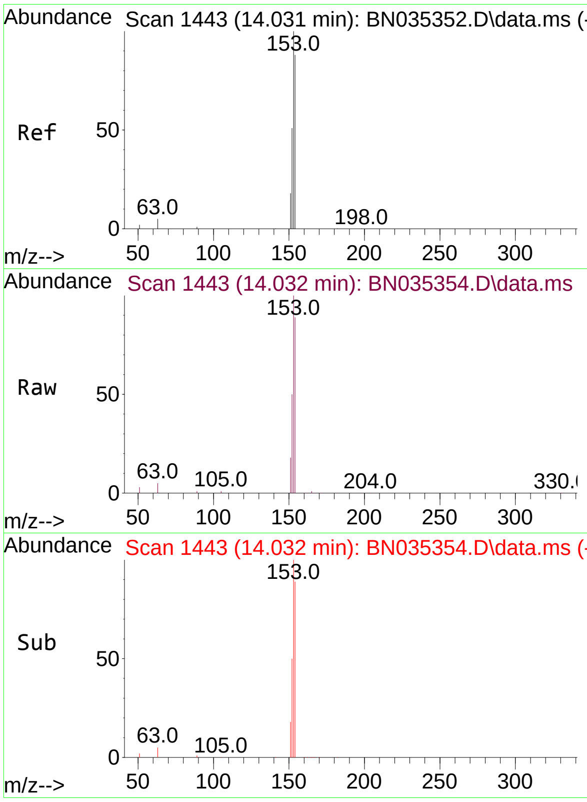
Tgt Ion:152 Resp: 27389

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



ICAL Form

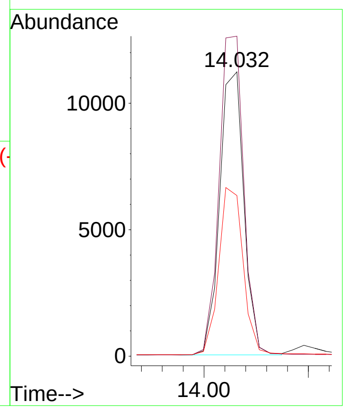
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

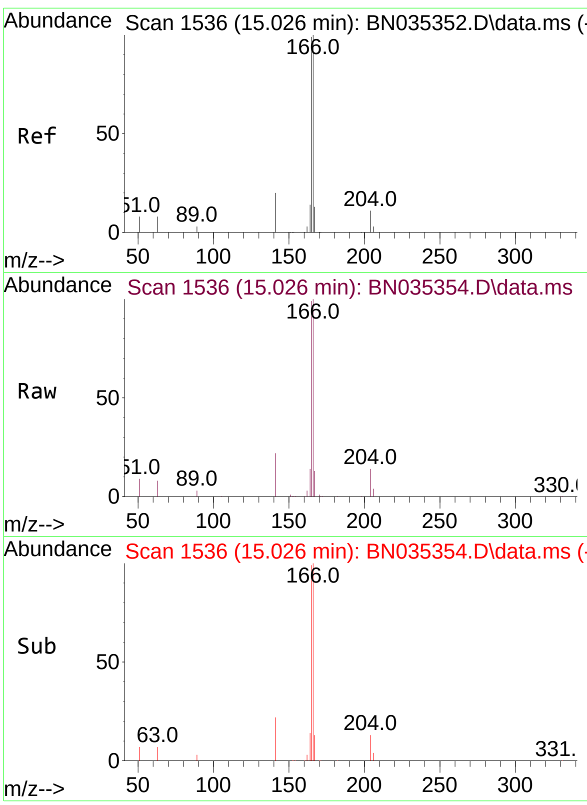


#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

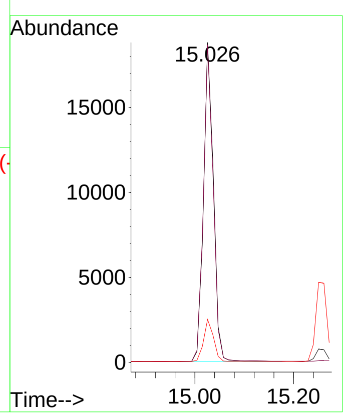




#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

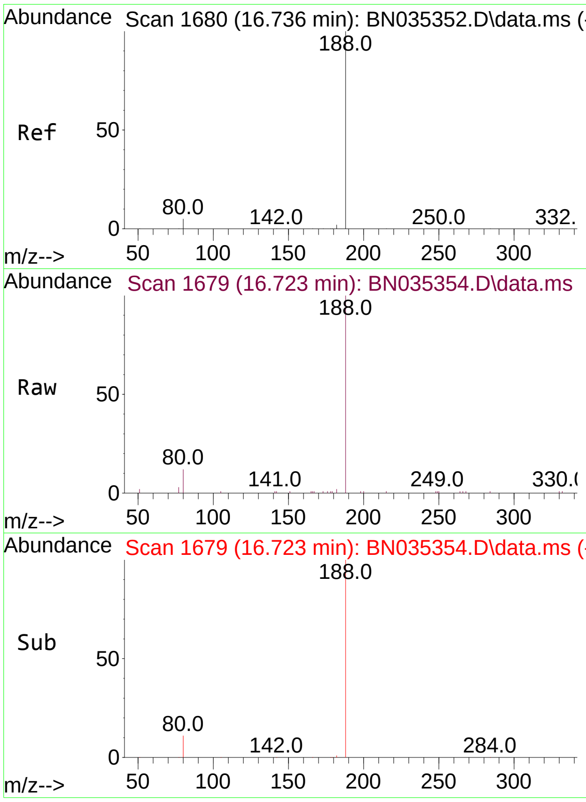
Tgt Ion:166 Resp: 26044

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



ICAL Form

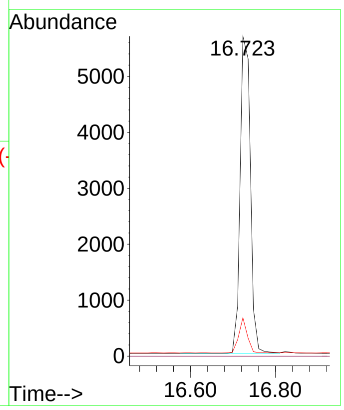
Instrument : BNA_N
ClientSampleId : SSTDICC1.6

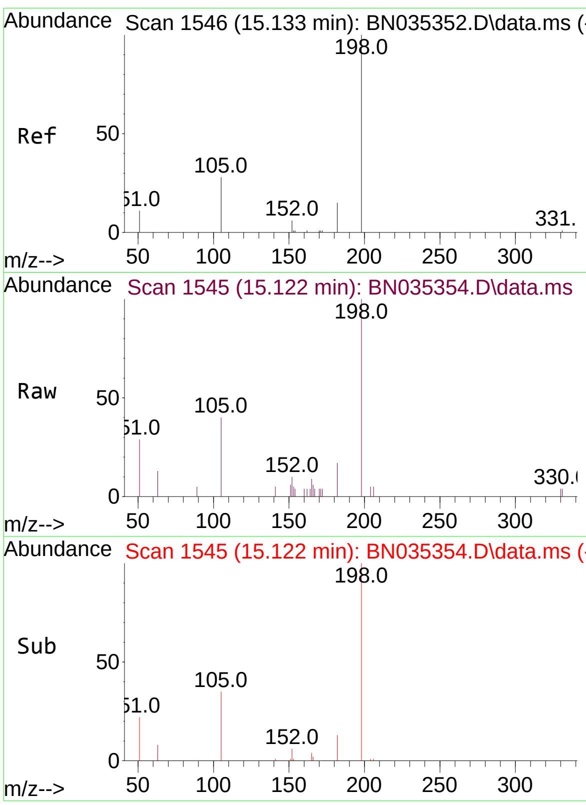


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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#

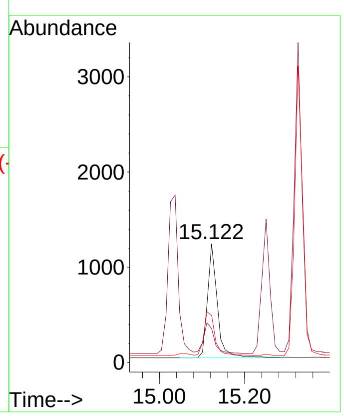




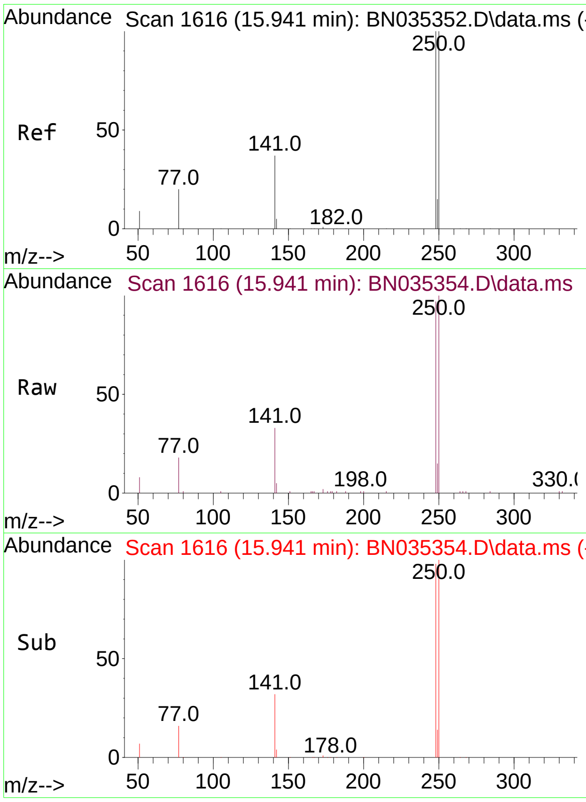
#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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#



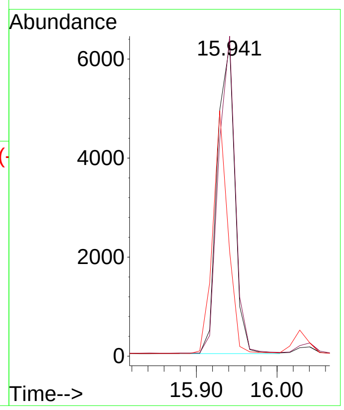
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

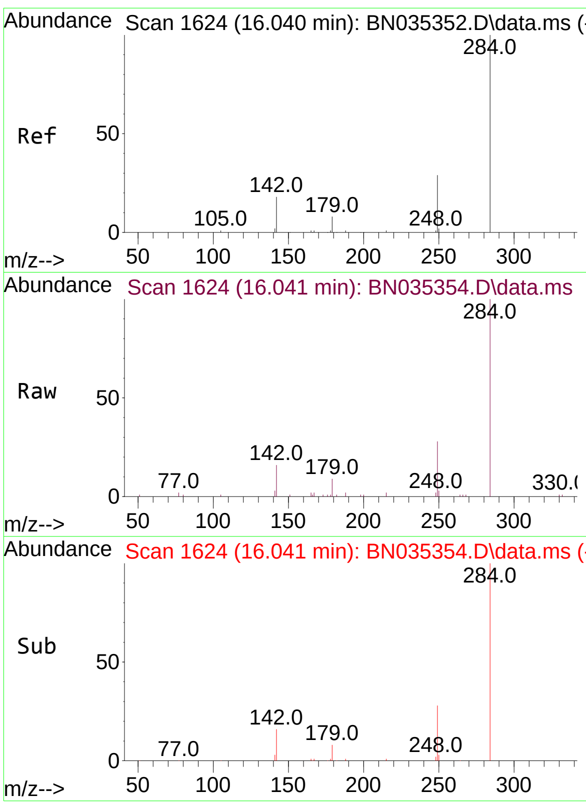


#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

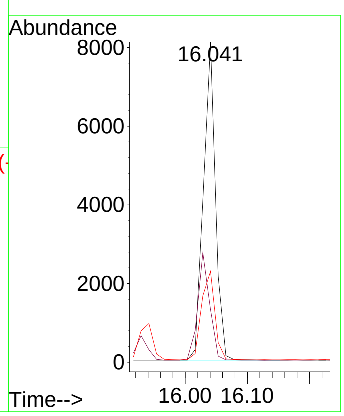


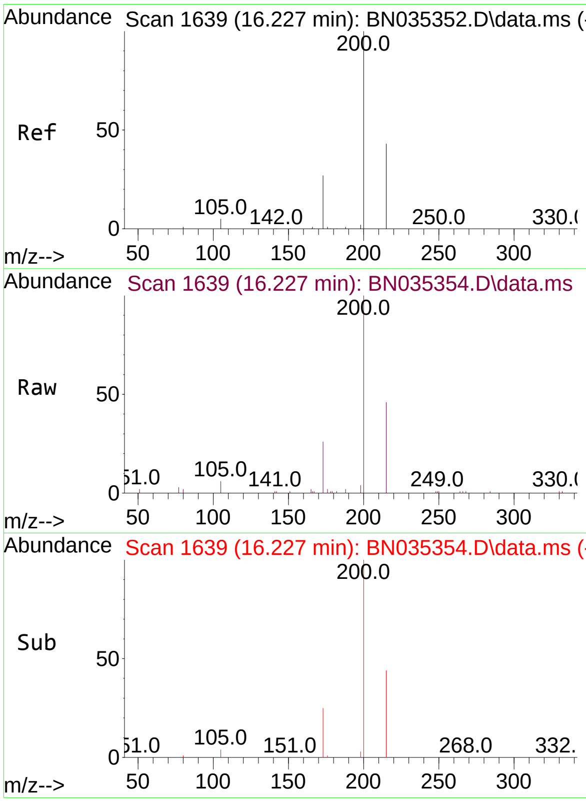


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



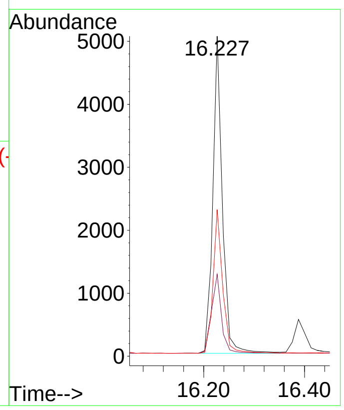


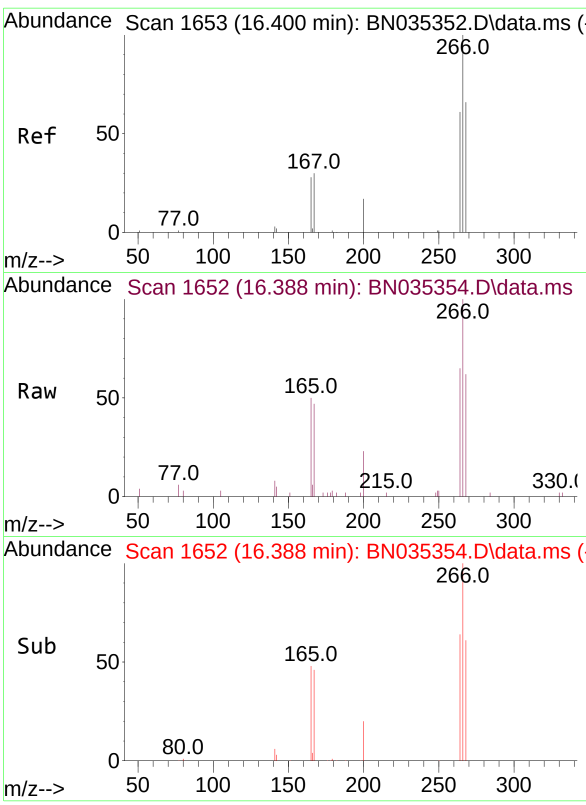
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min   Scan# 1(
Delta R.T.   0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024   17:57

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

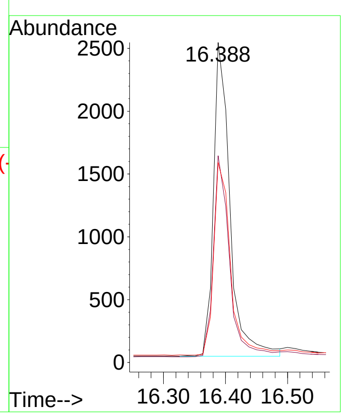




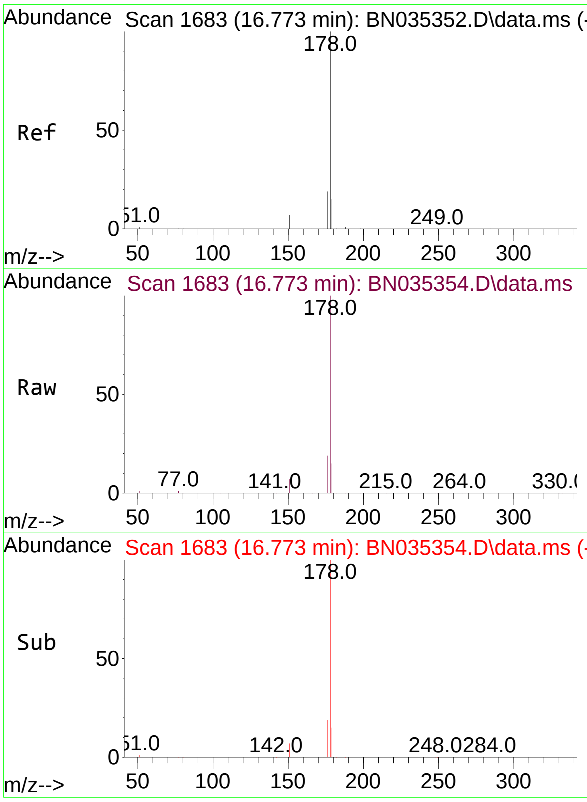
#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min   Scan# 1652
Delta R.T.   -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024   17:57

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



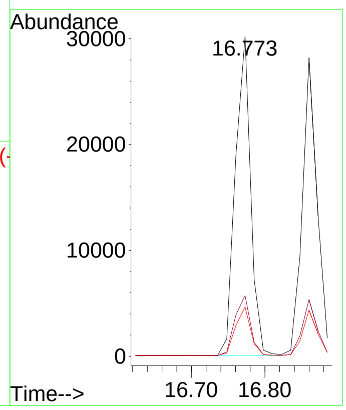
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

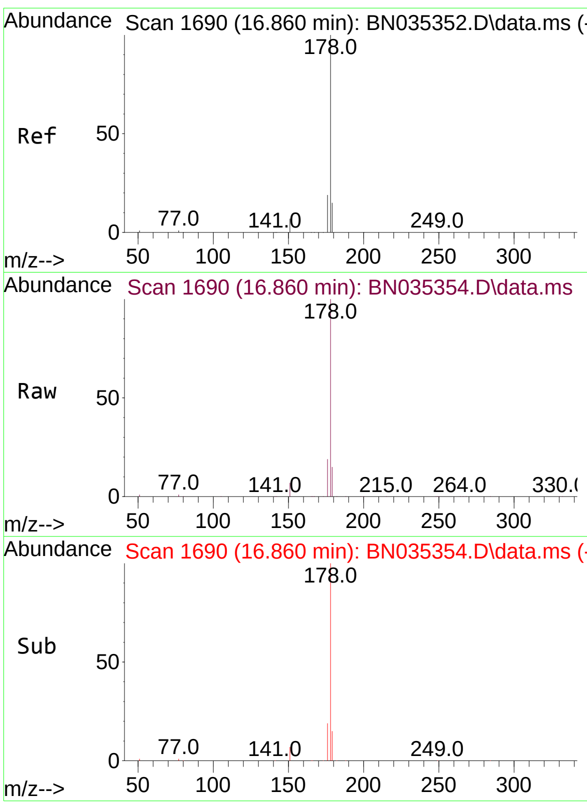


#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

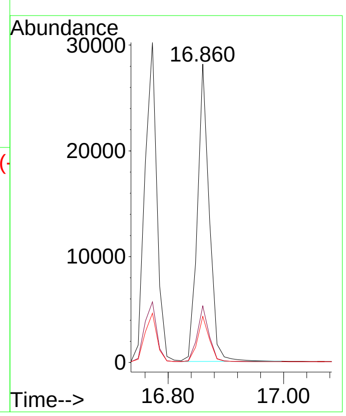




#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

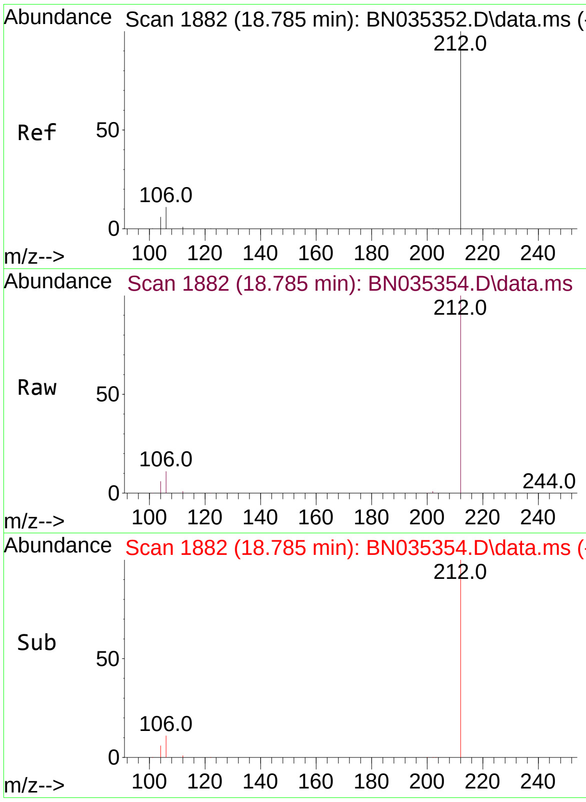
Tgt Ion:178 Resp: 39964

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



ICAL Form

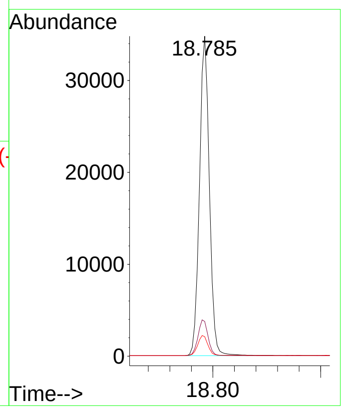
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

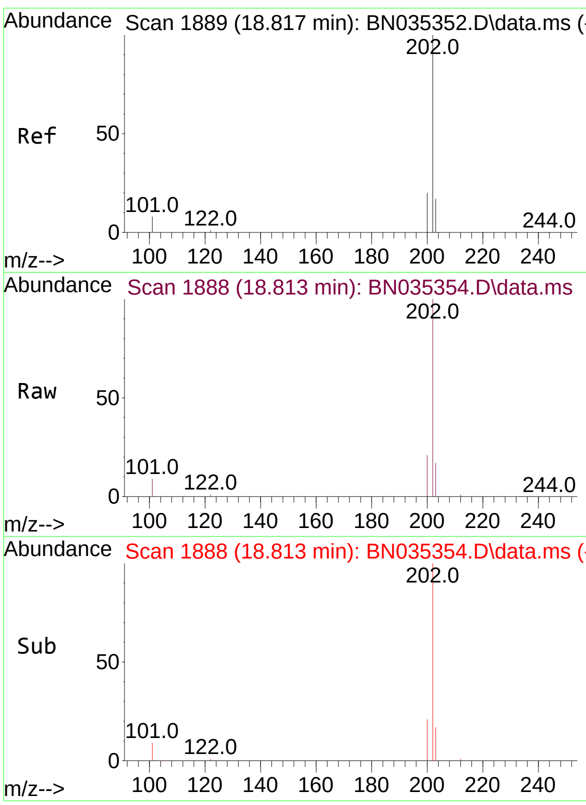


#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

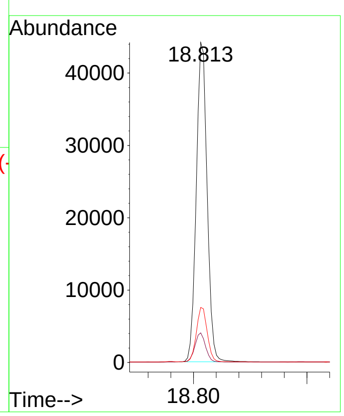




#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



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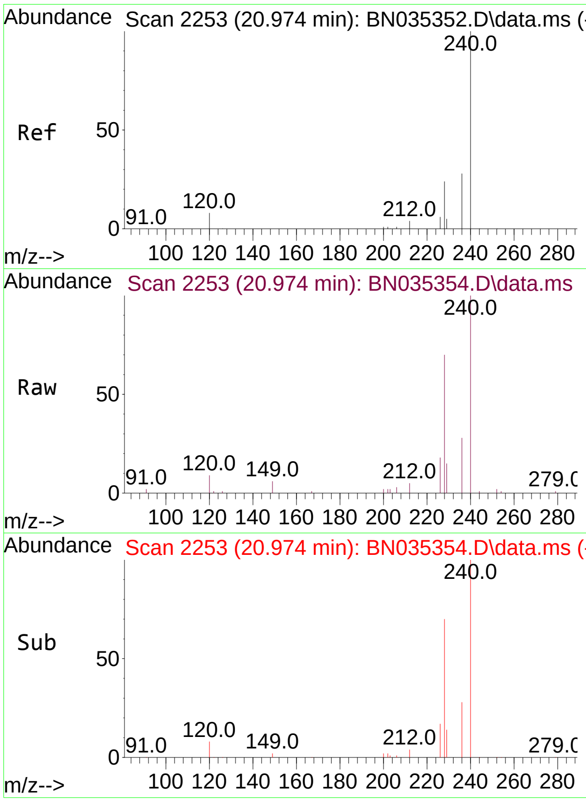


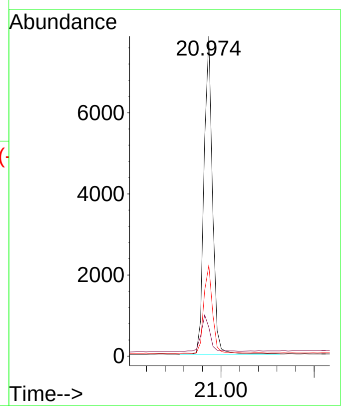
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min   Scan# 2

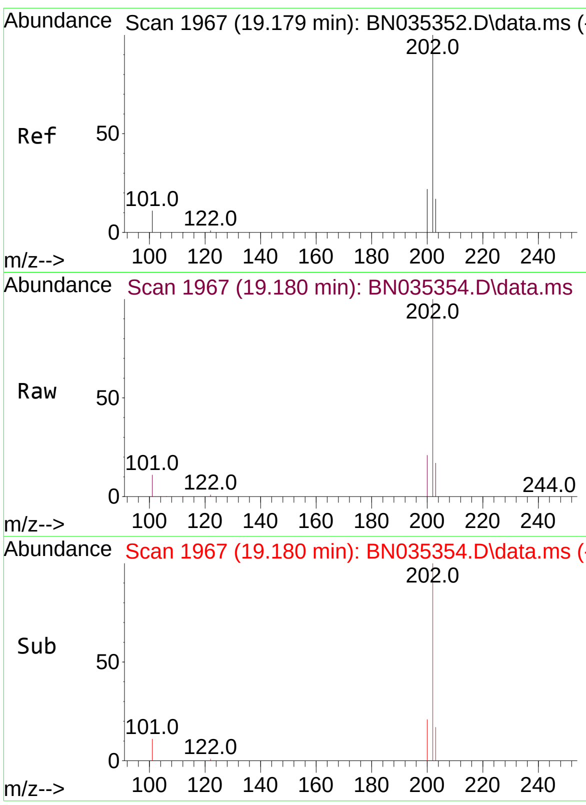
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Delta R.T.   0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024   17:57

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

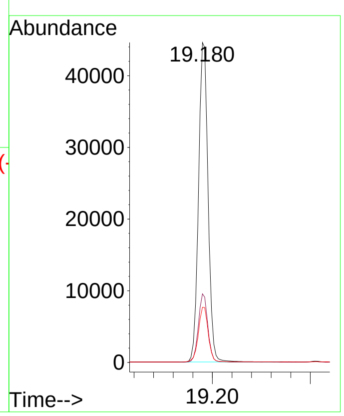




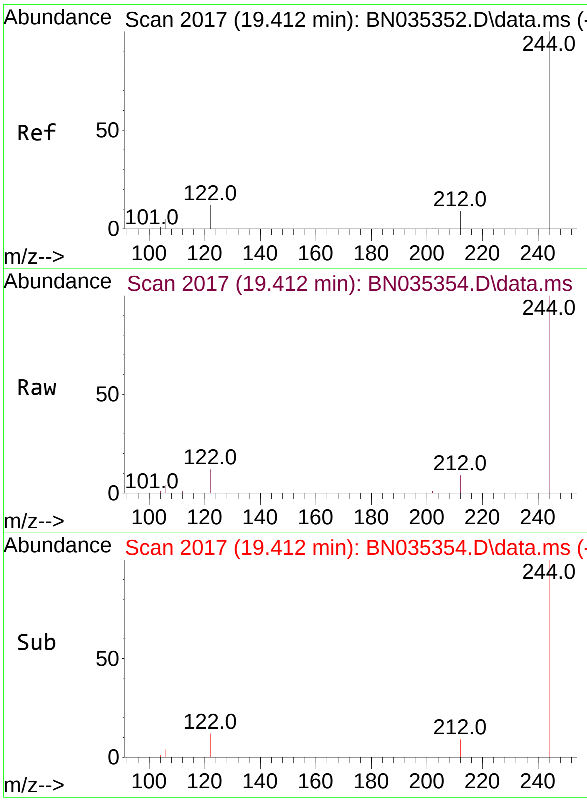
#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min   Scan# 1967
Delta R.T.   0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024   17:57

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



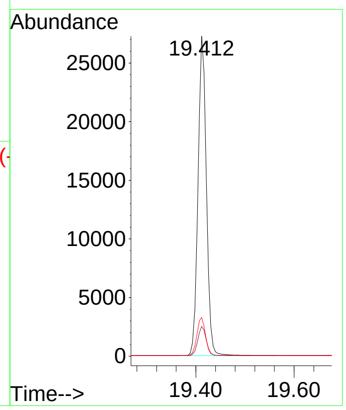
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

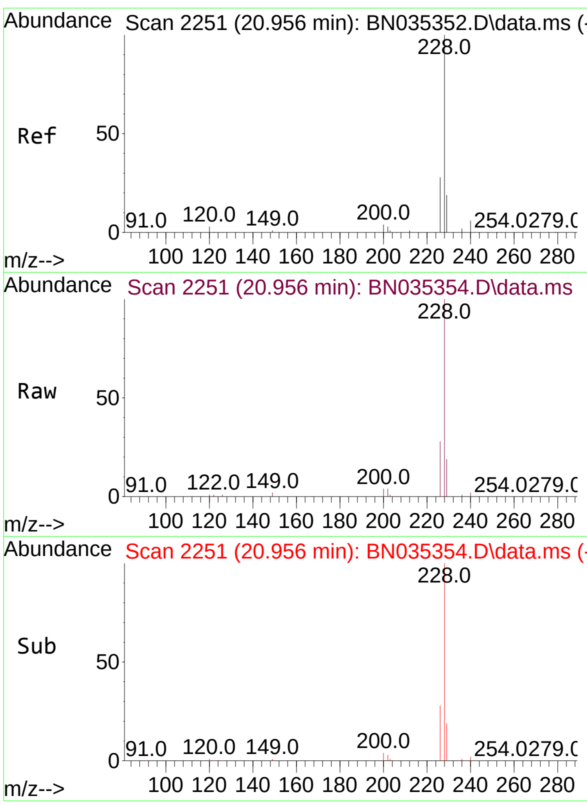


#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

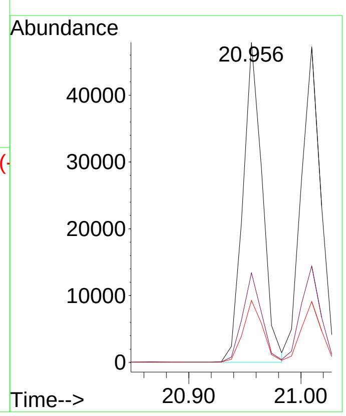




#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

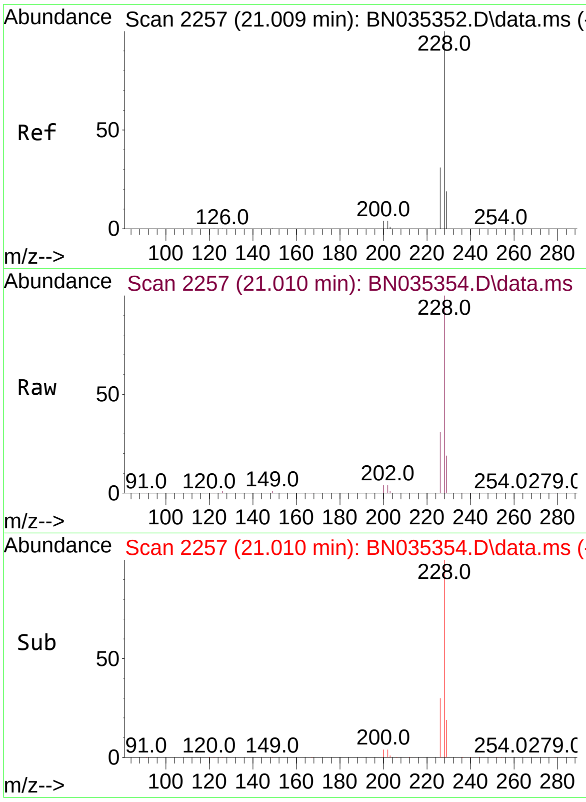
Tgt Ion:228 Resp: 57498

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

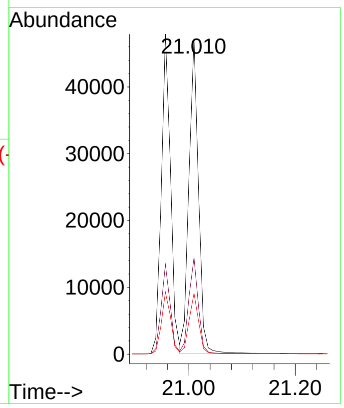


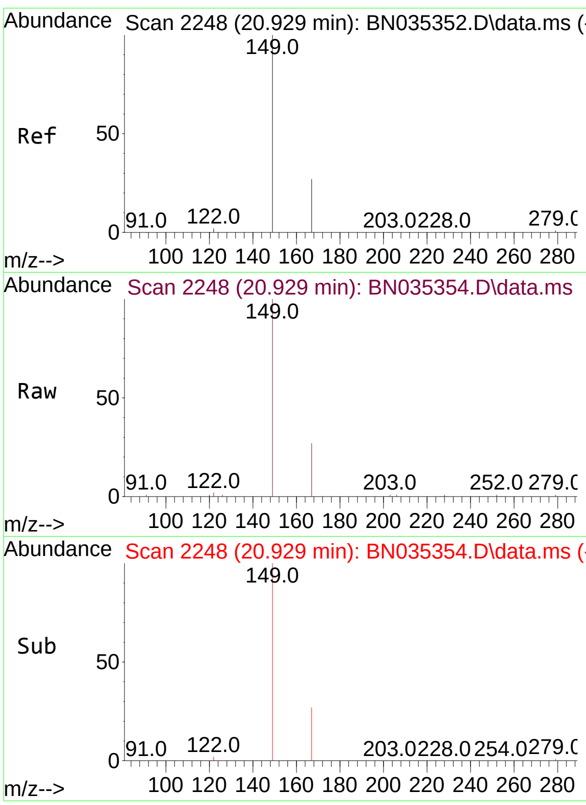
ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

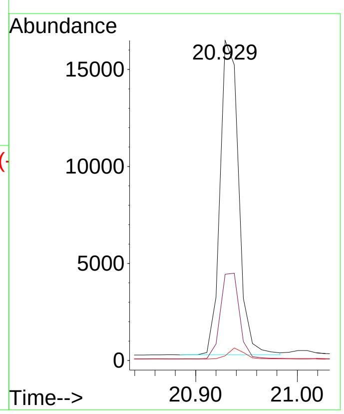



```
#33
Chrysene
Concen:    1.725 ng
RT:  21.010 min  Scan# 2
Delta R.T.  0.000 min
Lab File:   BN035354.D
Acq: 27 Nov 2024  17:57

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
```



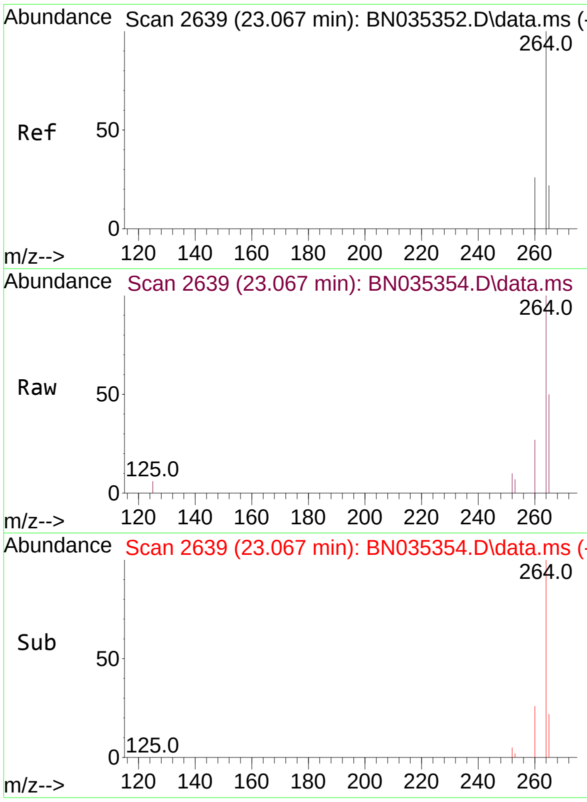



```
#34
Bis(2-ethylhexyl)phthalate
Concen:    1.138 ng
RT:  20.929 min  Scan# 2248
Delta R.T.  0.000 min
Lab File:   BN035354.D
Acq: 27 Nov 2024  17:57

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
```

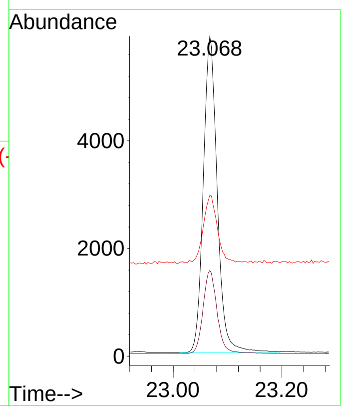


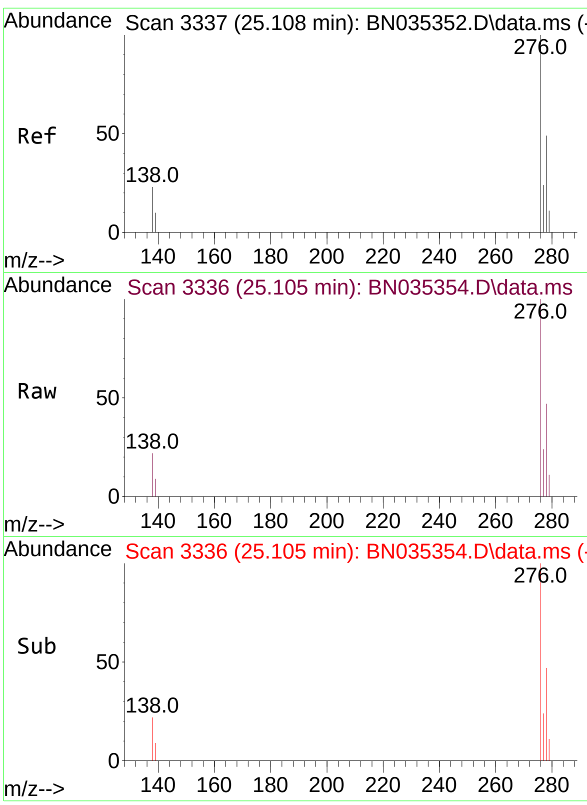
ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

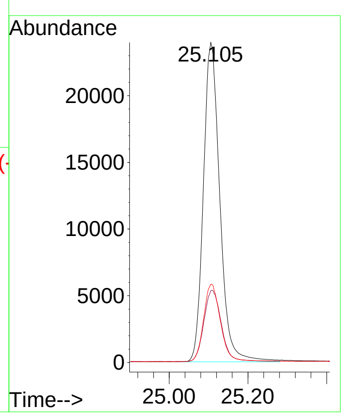



```
#35
Perylene-d12
Concen:     0.400 ng
RT:  23.067 min  Scan# 2
Delta R.T.  0.000 min
Lab File:   BN035354.D
Acq: 27 Nov 2024  17:57

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
```

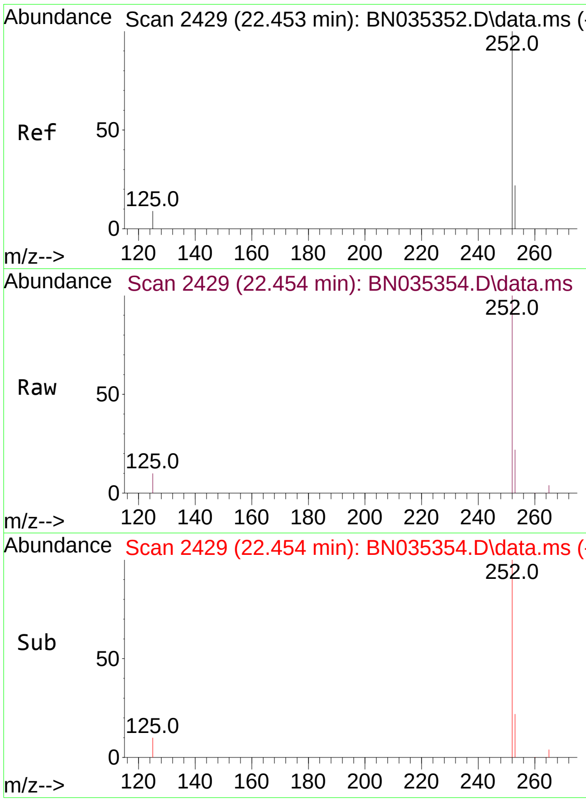





```
#36
Indeno(1,2,3-cd)pyrene
Concen:     1.665 ng
RT:  25.105 min  Scan# 3336
Delta R.T.  -0.003 min
Lab File:   BN035354.D
Acq: 27 Nov 2024  17:57

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
```



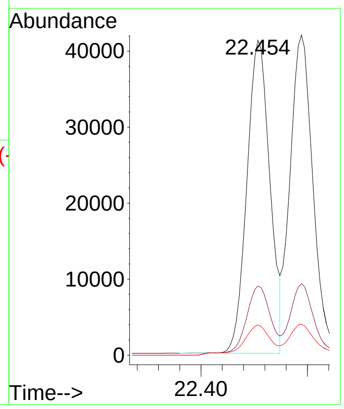
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

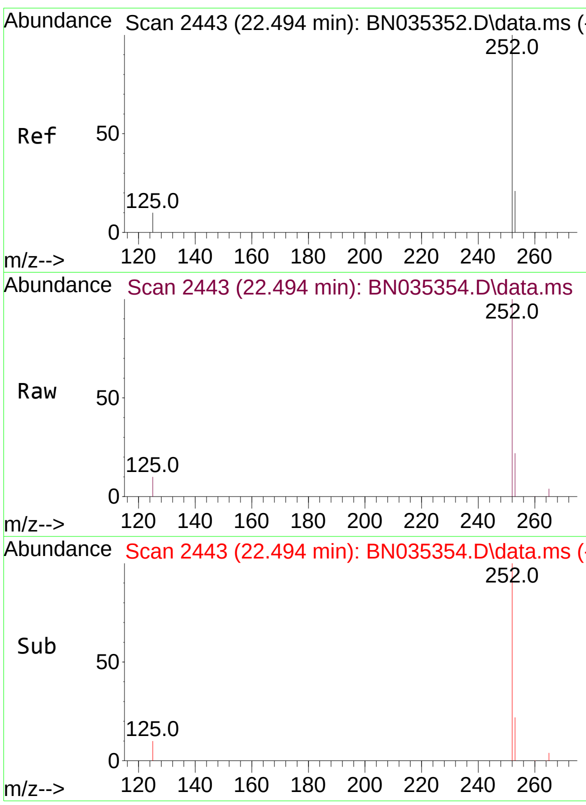


#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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

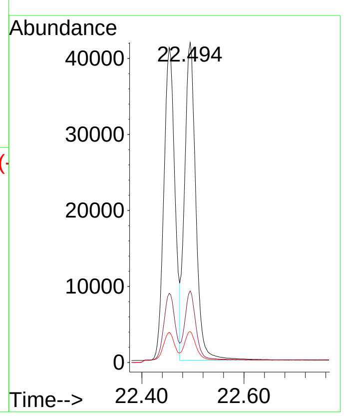


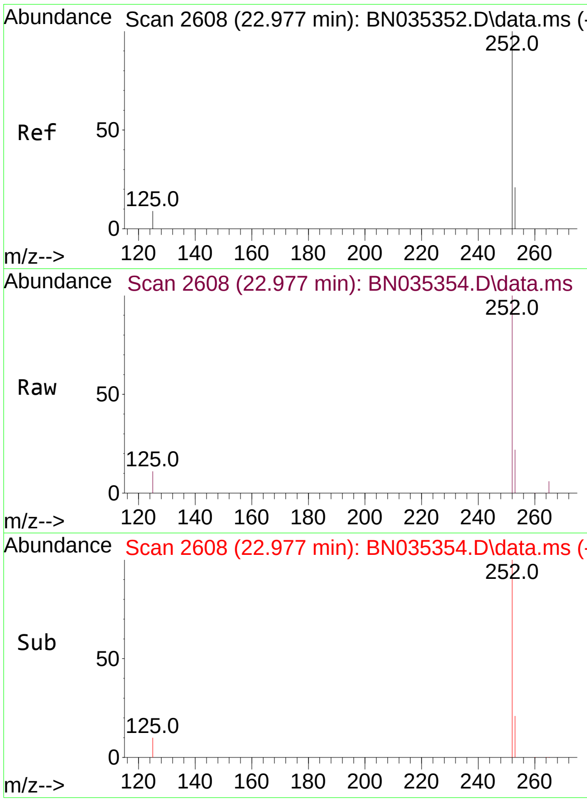


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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#



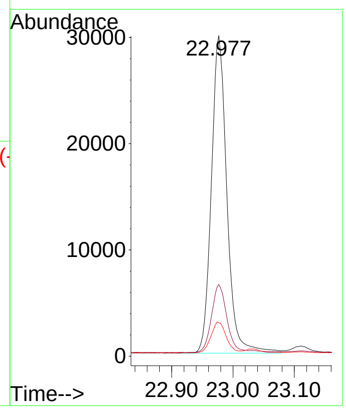


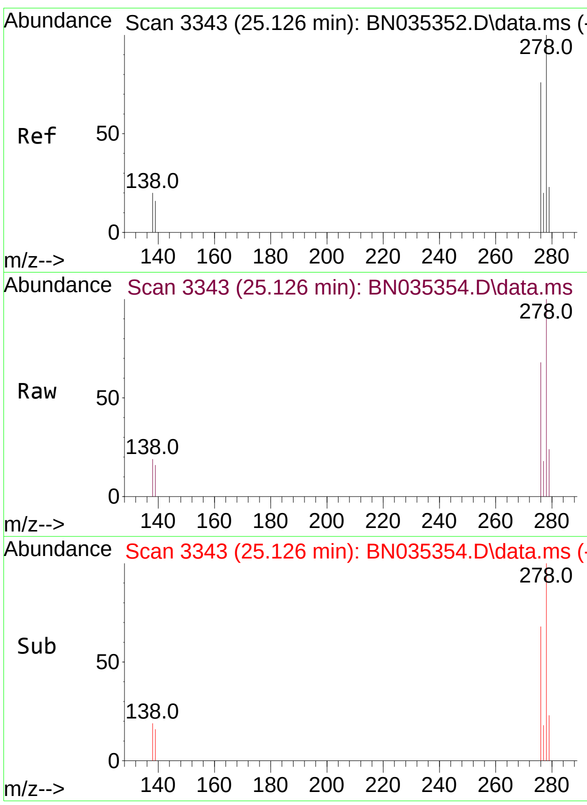
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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#

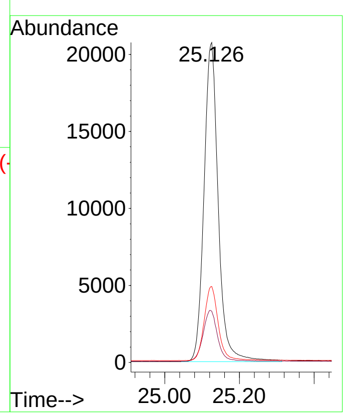


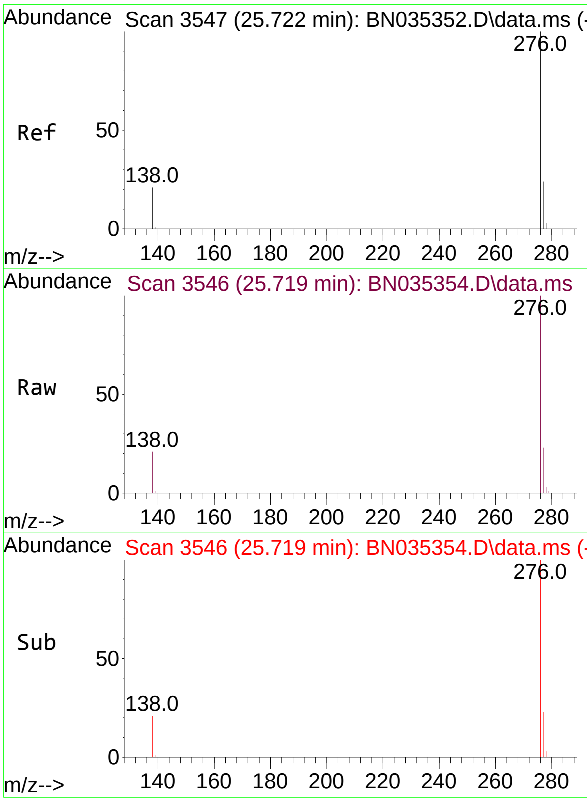


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



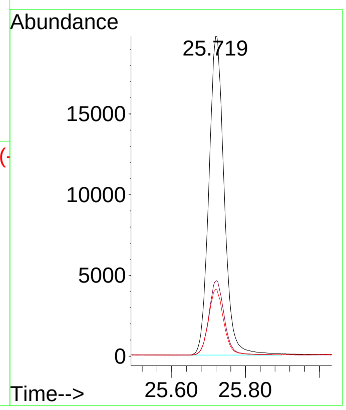


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3!
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

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



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

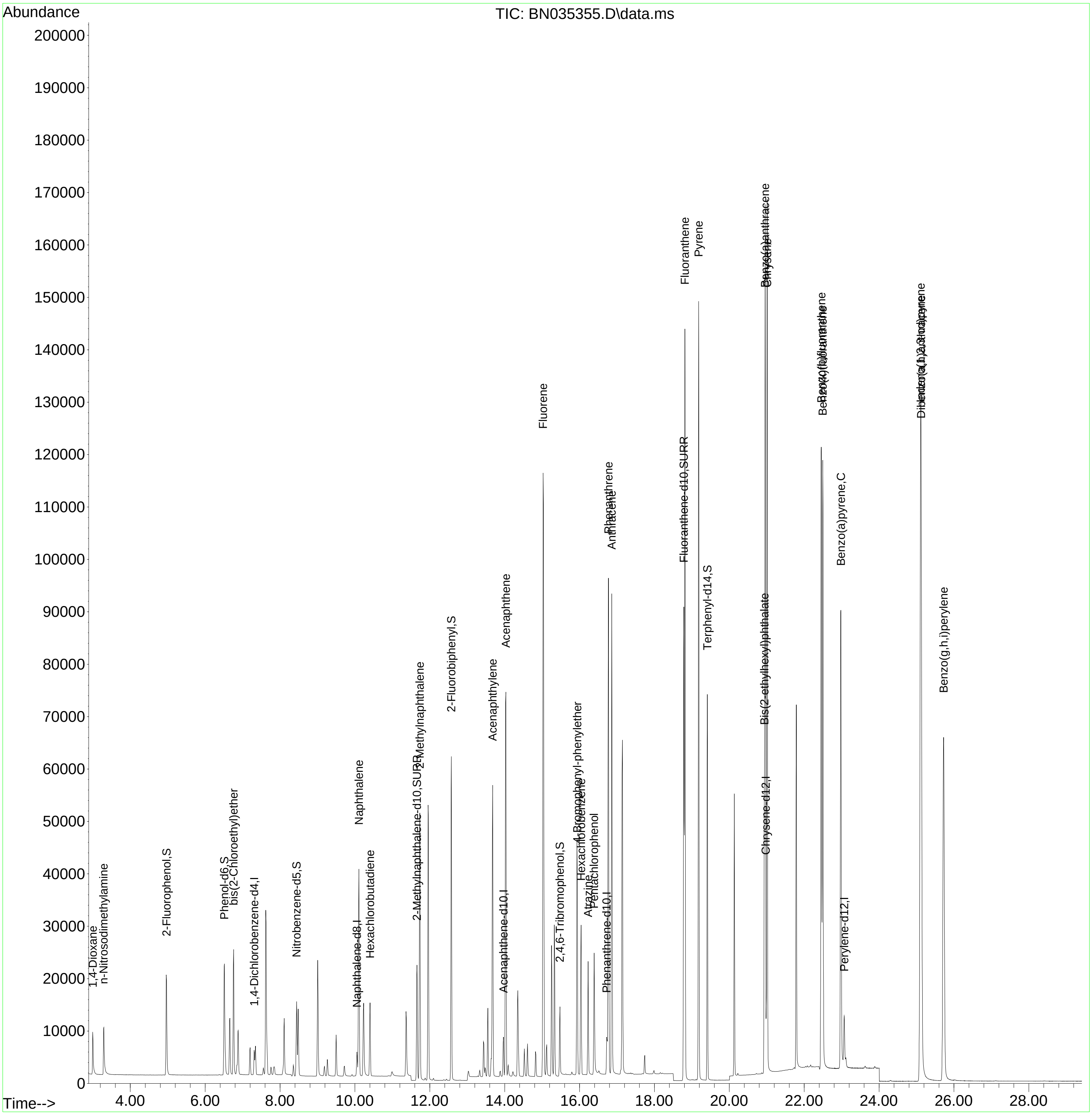
Quantitation Report (QT Reviewed)

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

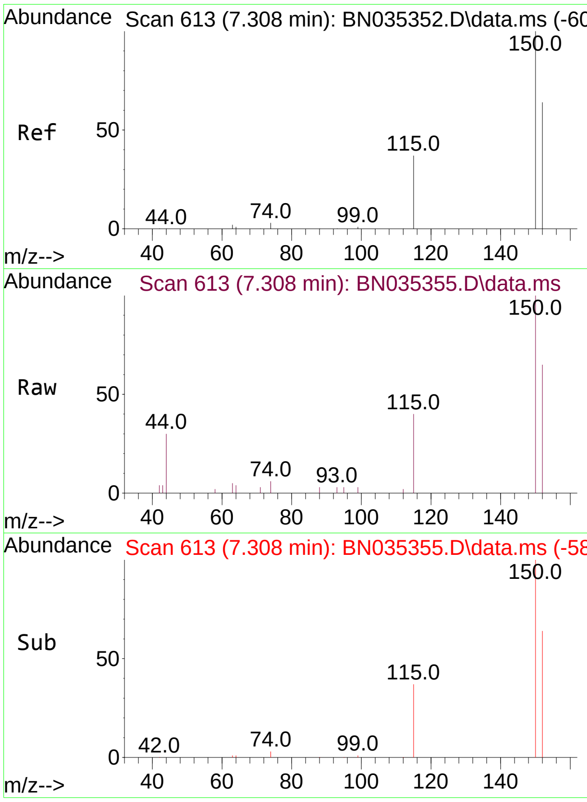
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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



ICAL Form

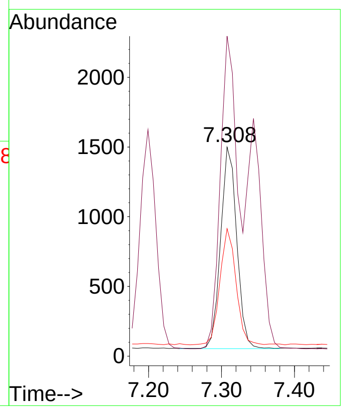
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

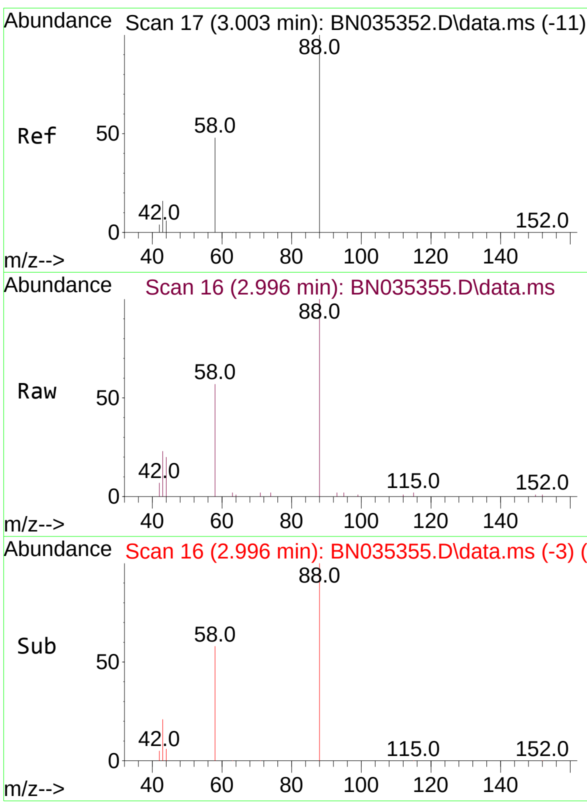


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

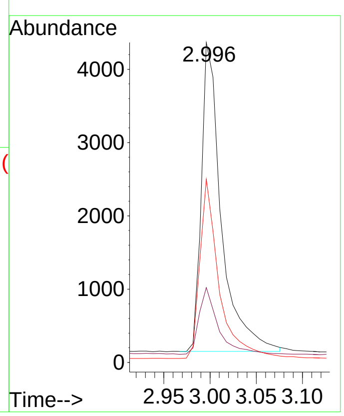




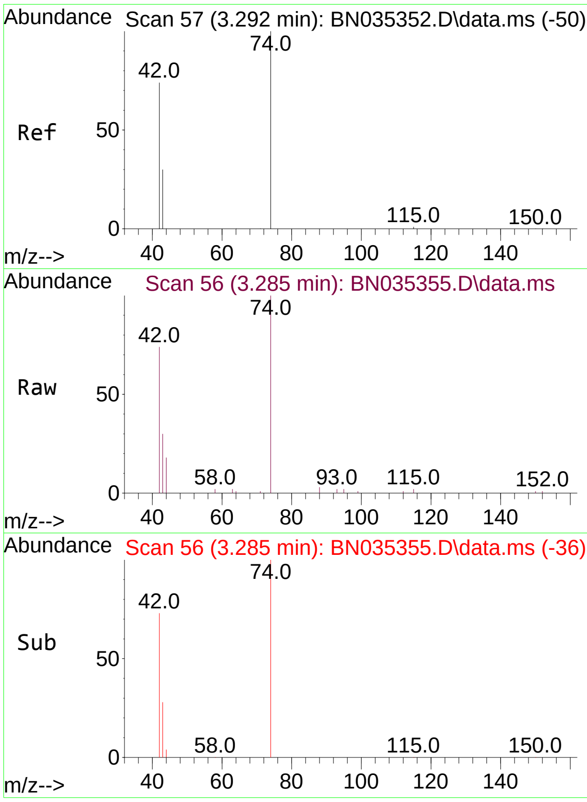
#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



ICAL Form

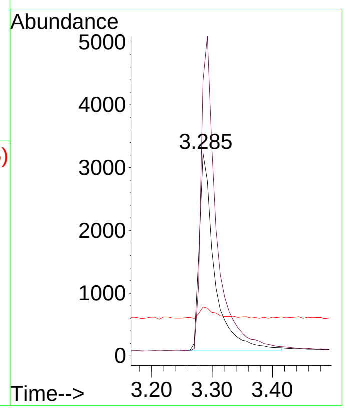


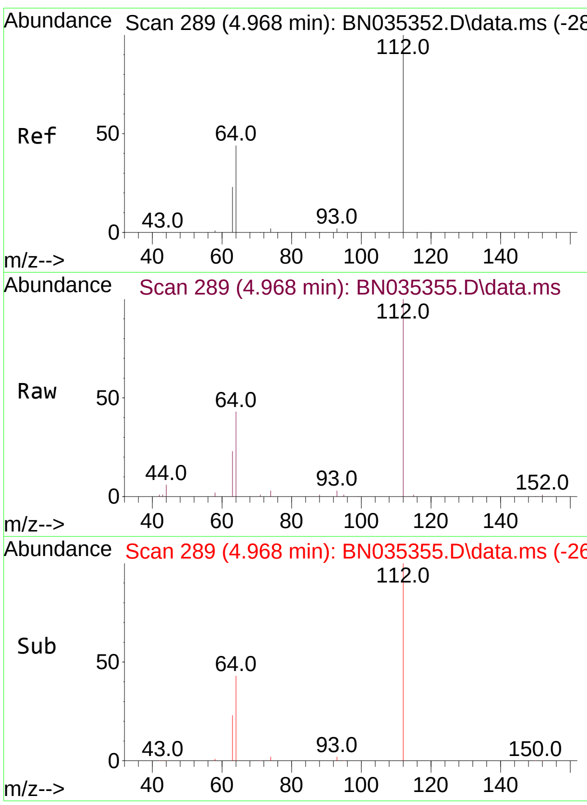
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#

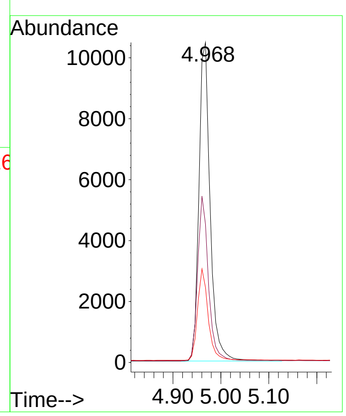




#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

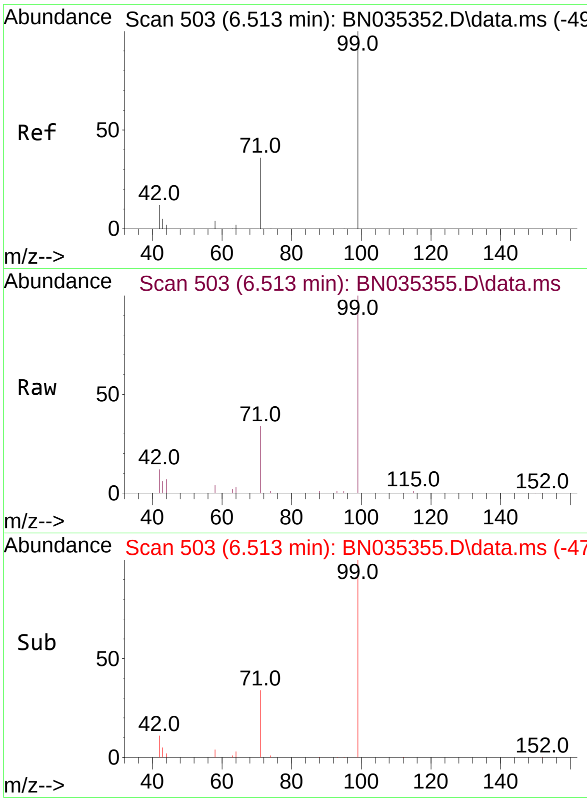
Tgt Ion:112 Resp: 16991

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



Instrument : BNA_N

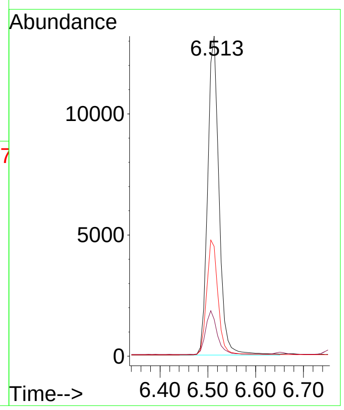
ClientSampleId : SSTDICC3.2

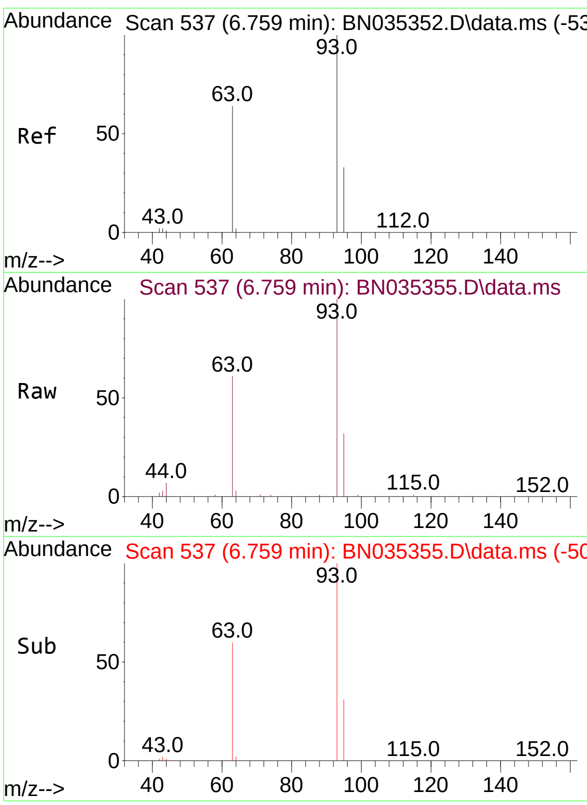


#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

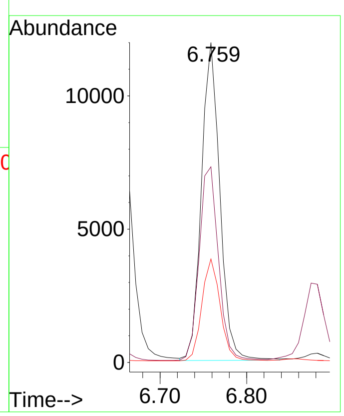




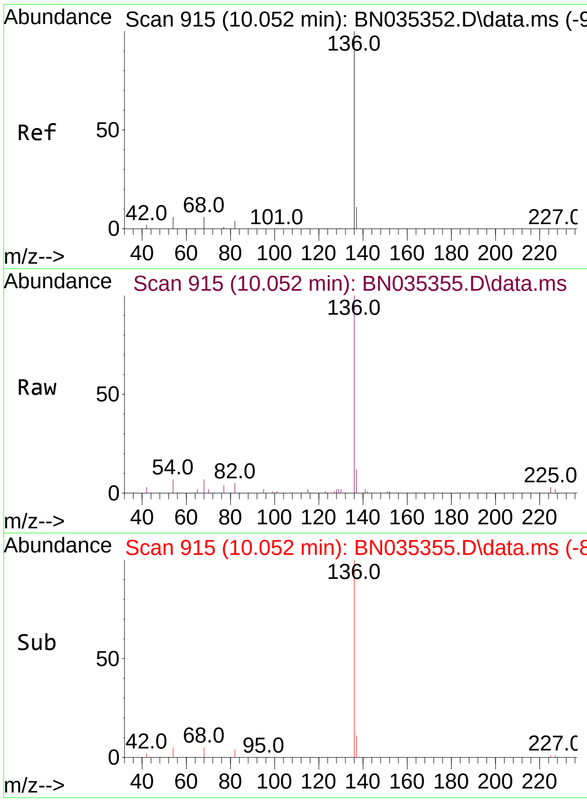
#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



ICAL Form



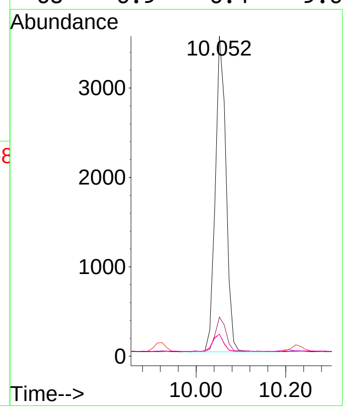
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9

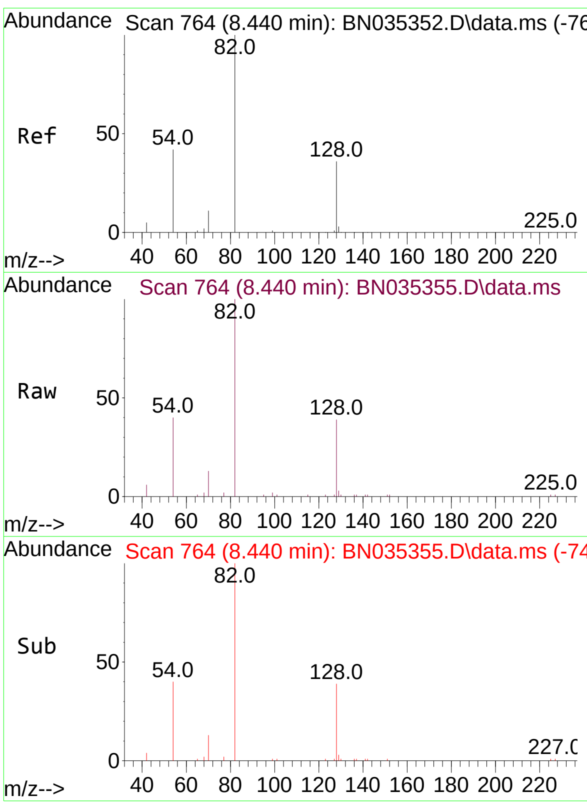
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

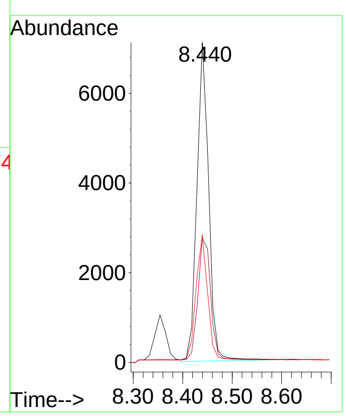




#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

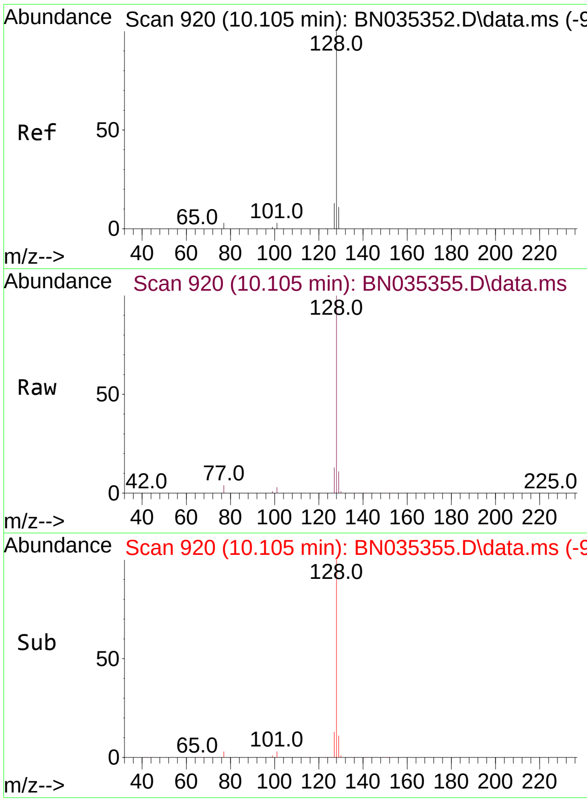
Tgt Ion: 82 Resp: 11759

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



ICAL Form

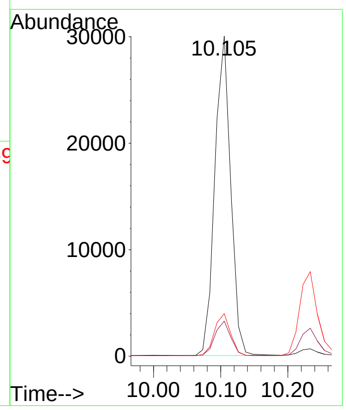
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

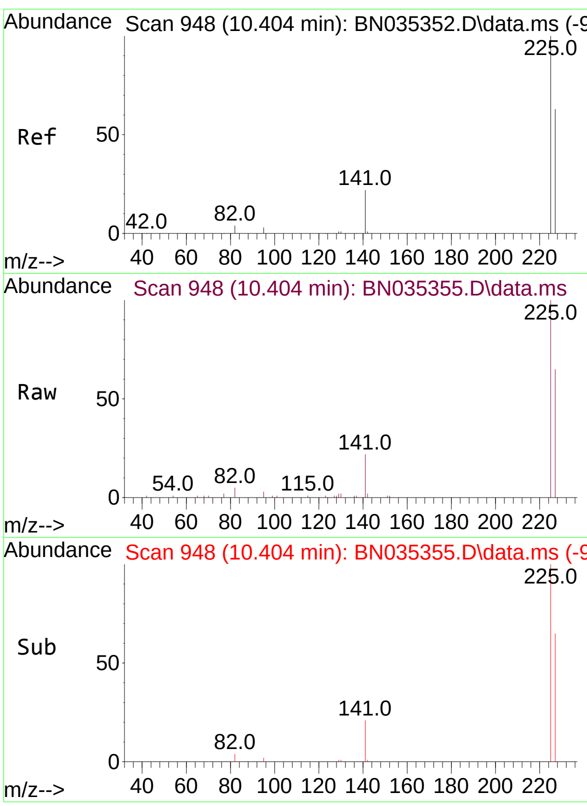


#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

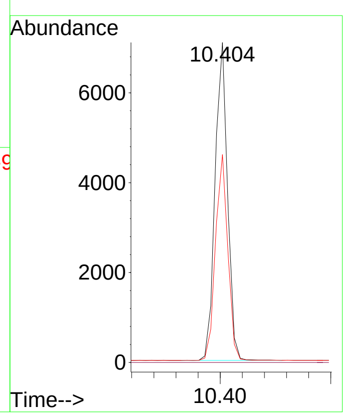




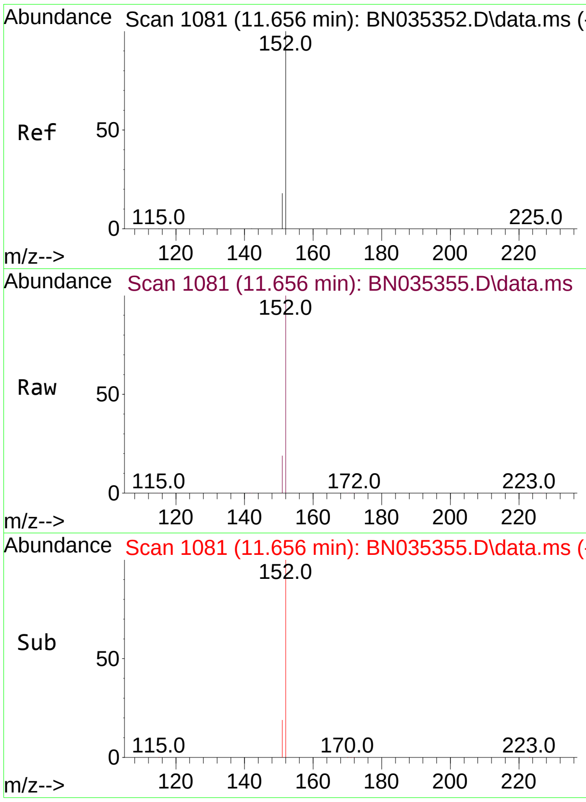
#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



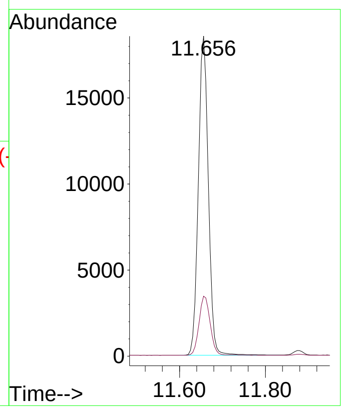
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

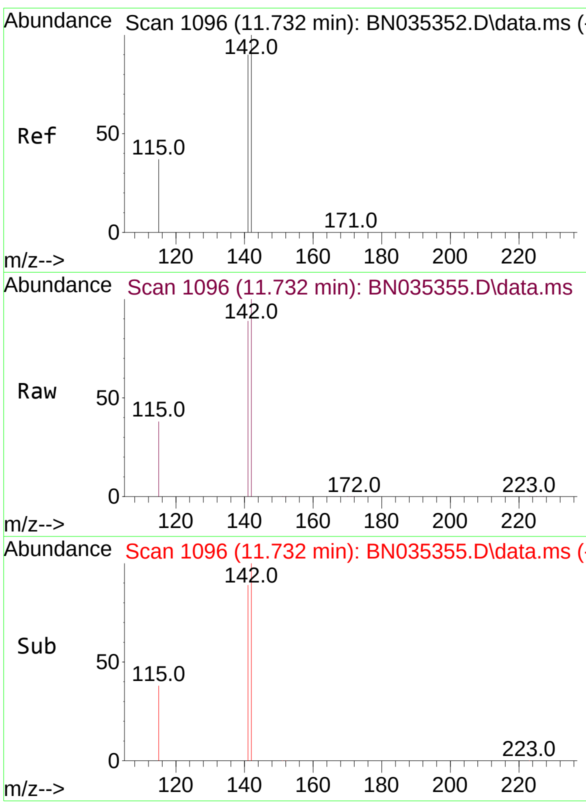


#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

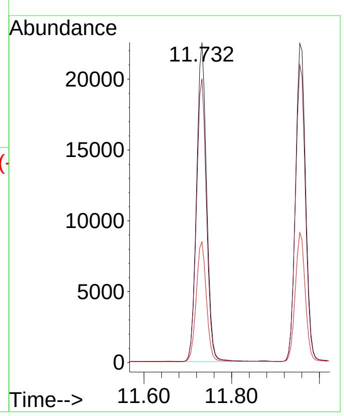




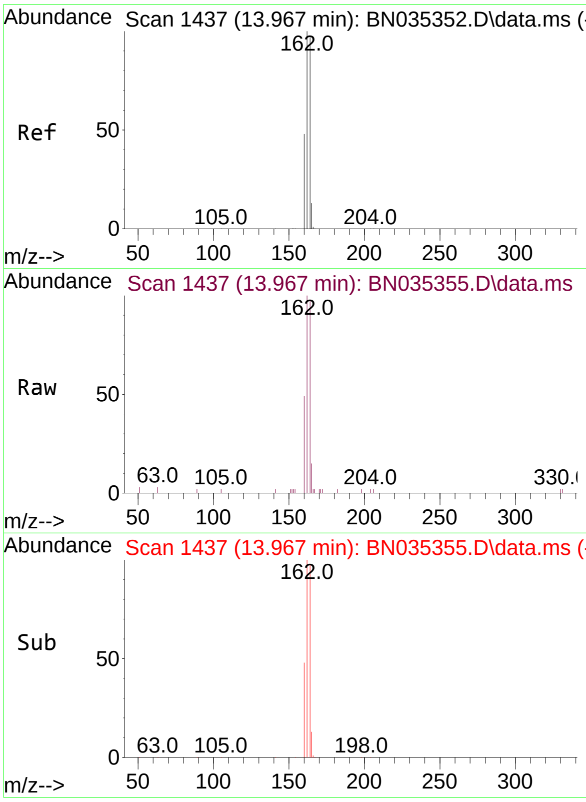
#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



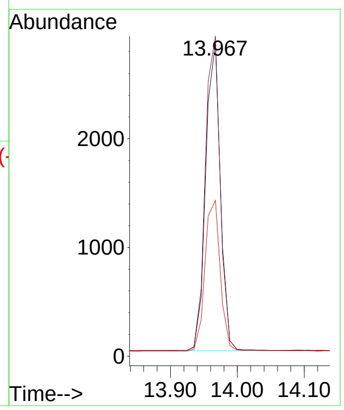
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

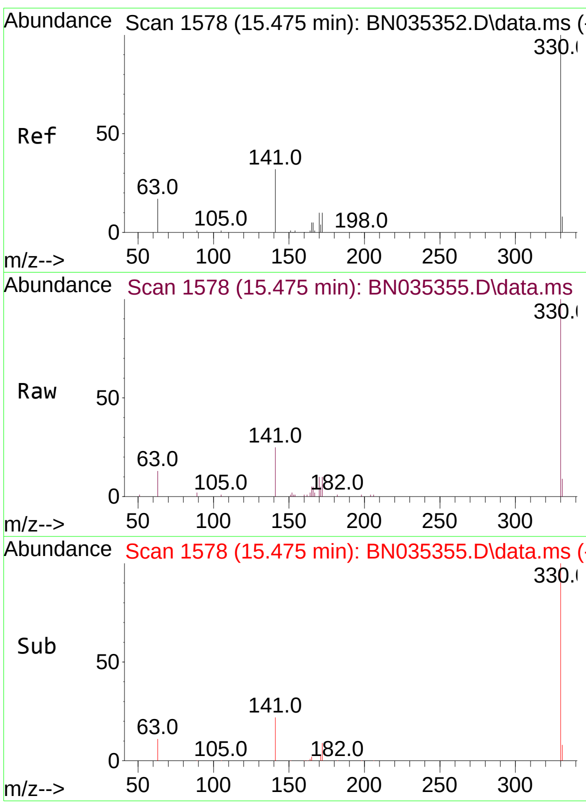


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

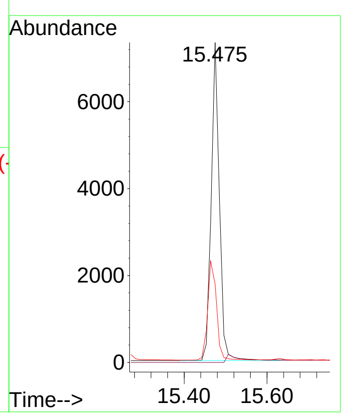




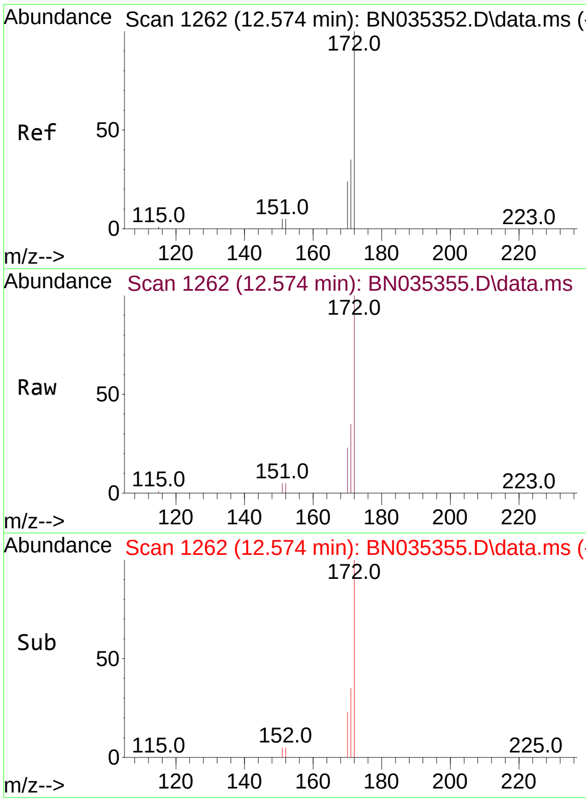
#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



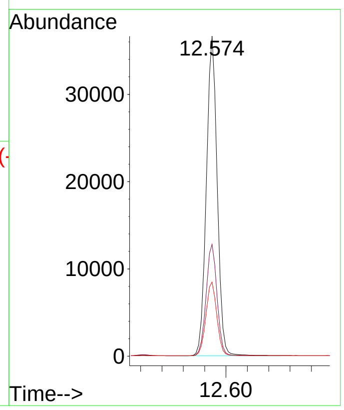
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

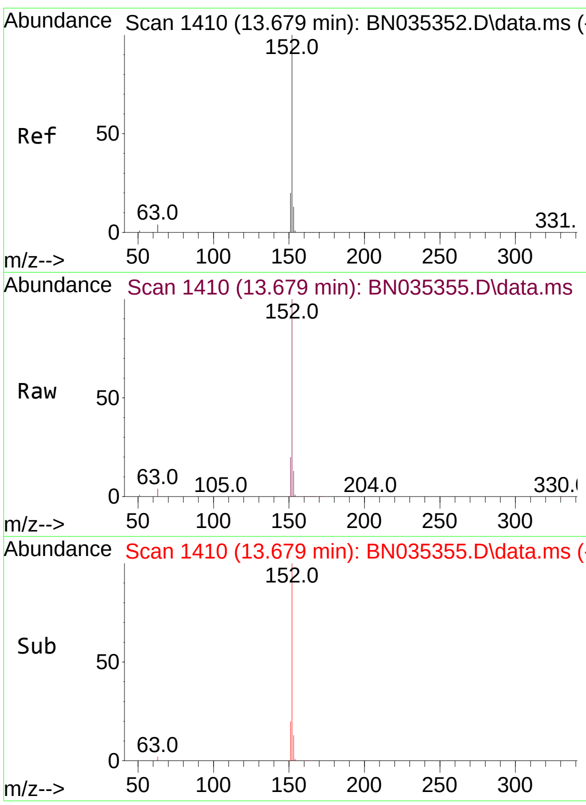


#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

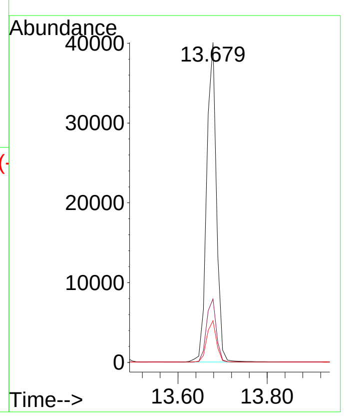




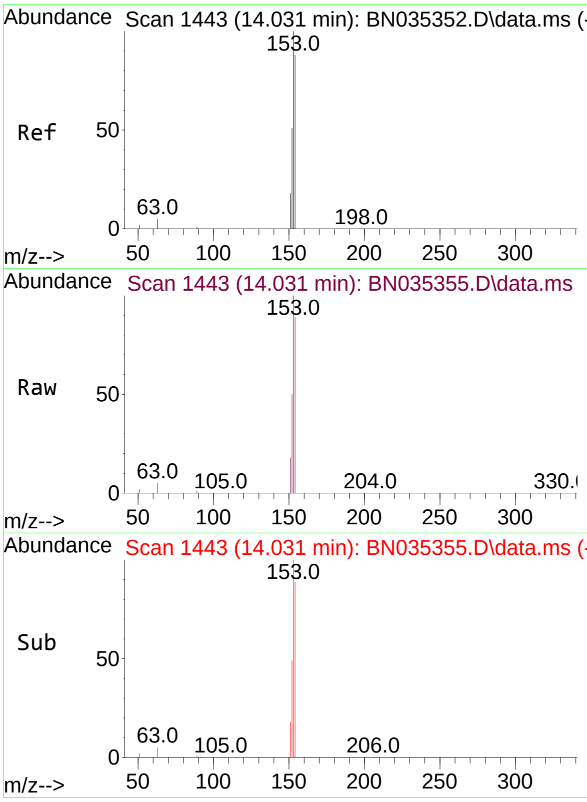
#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

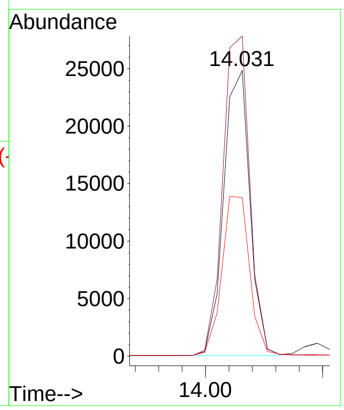
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6

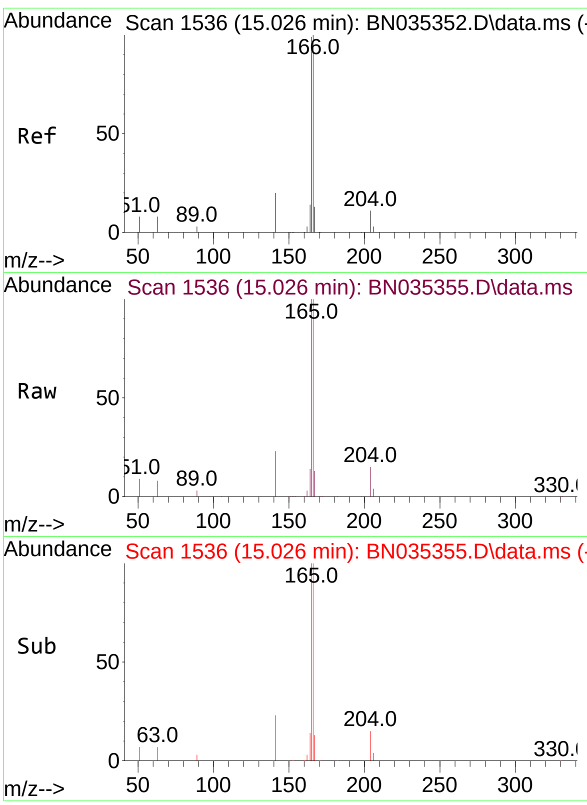


Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

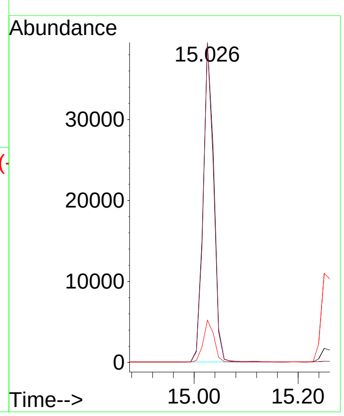



```
#17
Acenaphthene
Concen:     3.206 ng
RT:  14.031 min  Scan# 14
Delta R.T.   -0.000 min
Lab File:    BN035355.D
Acq: 27 Nov 2024  18:33

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
```



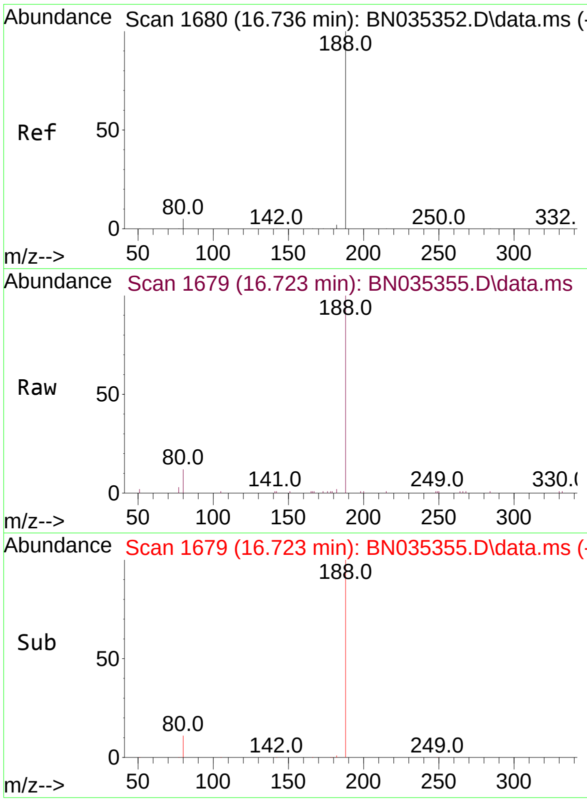



```
#18
Fluorene
Concen:     3.134 ng
RT:  15.026 min  Scan# 1536
Delta R.T.   -0.000 min
Lab File:    BN035355.D
Acq: 27 Nov 2024  18:33

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
```



ICAL Form

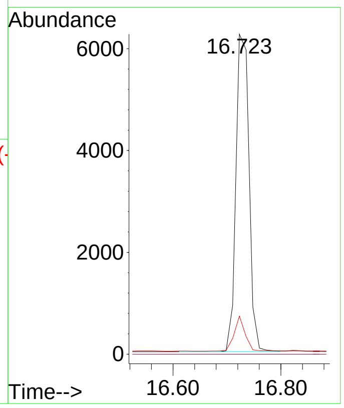
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

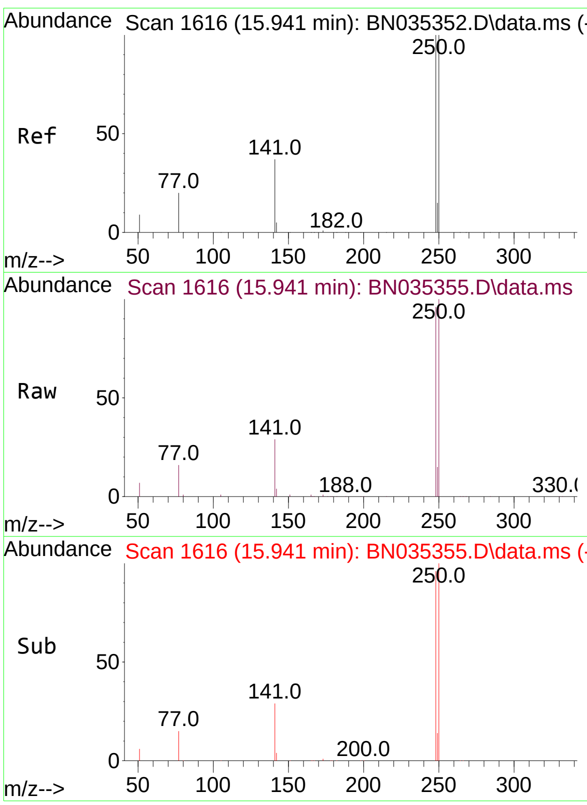


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#

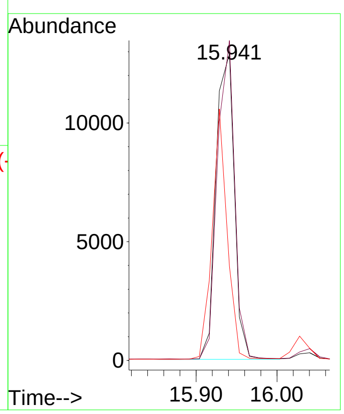




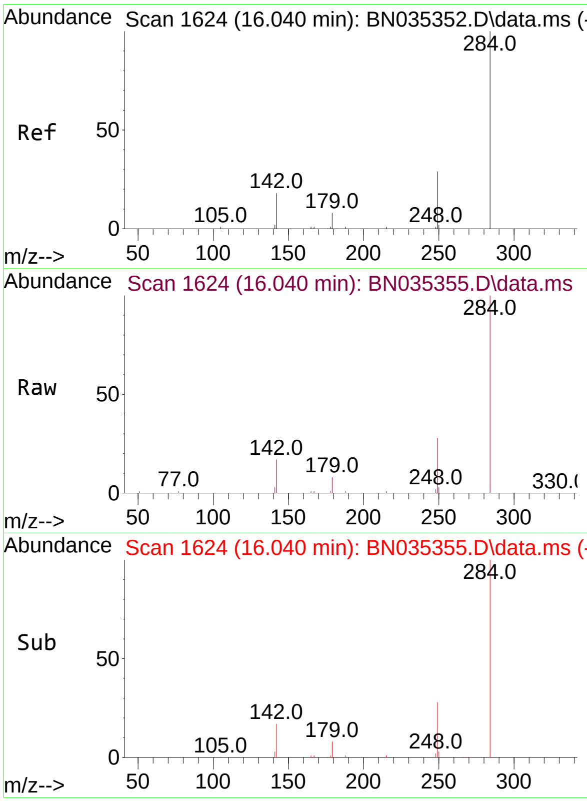
#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#



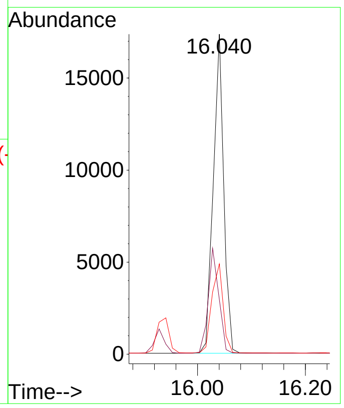
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

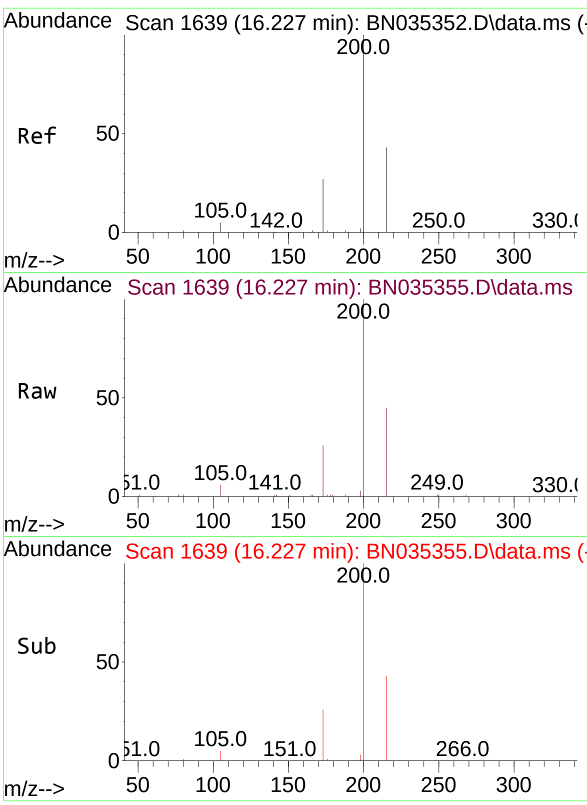


#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

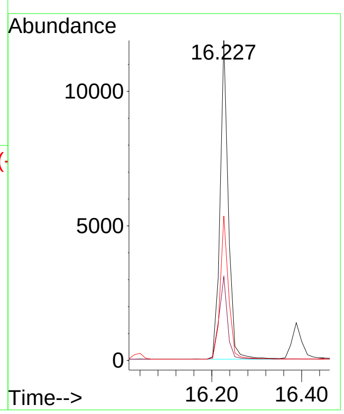




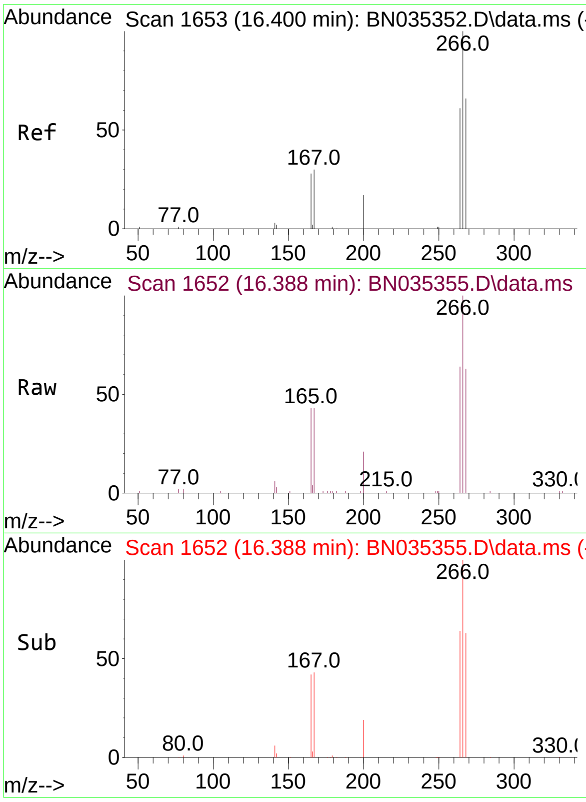
#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



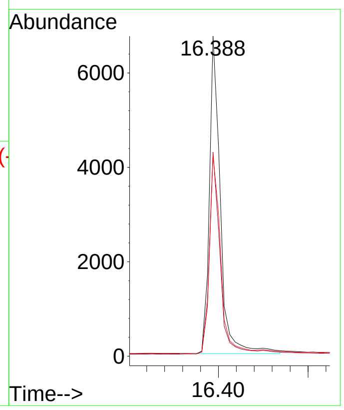
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

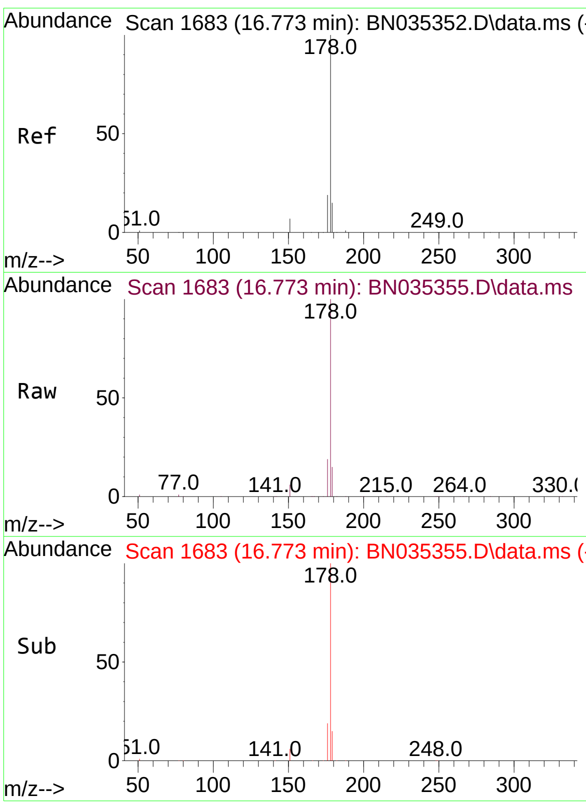


#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

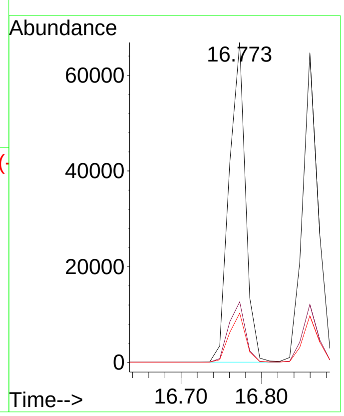




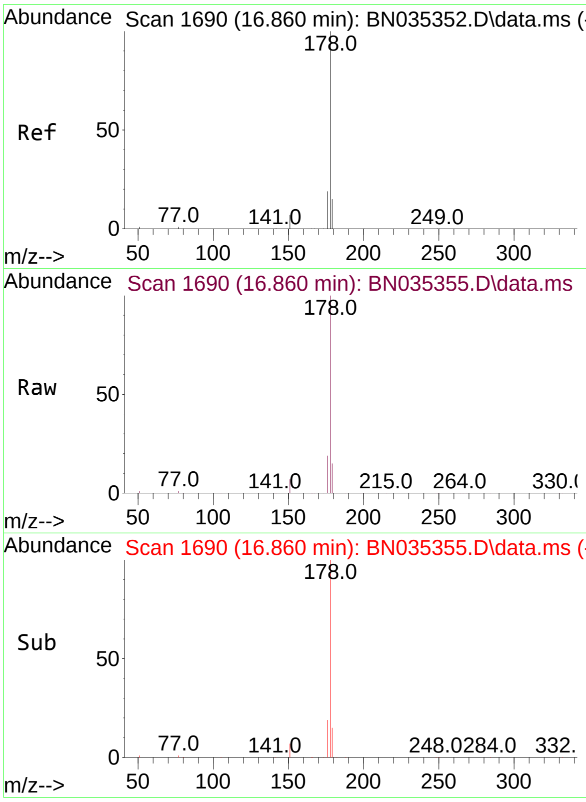
#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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



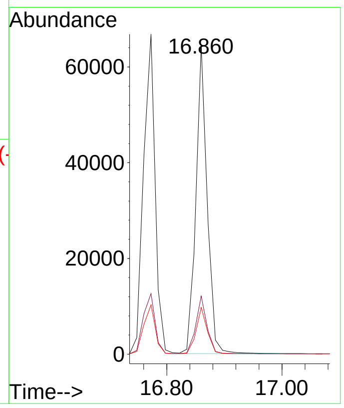
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

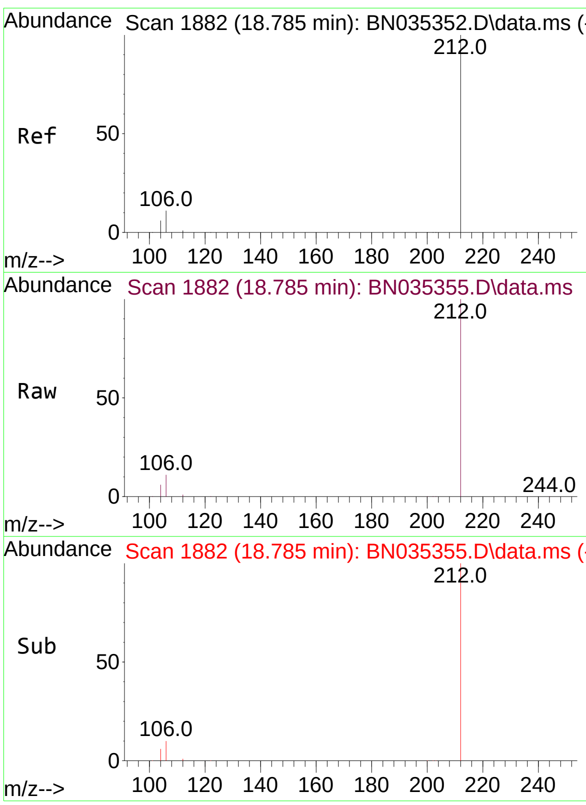


#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

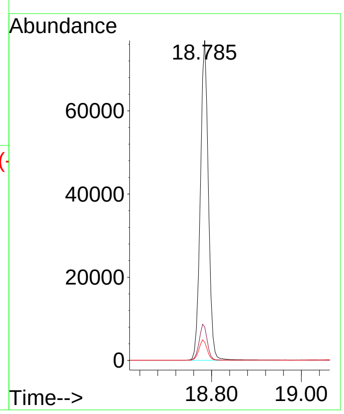




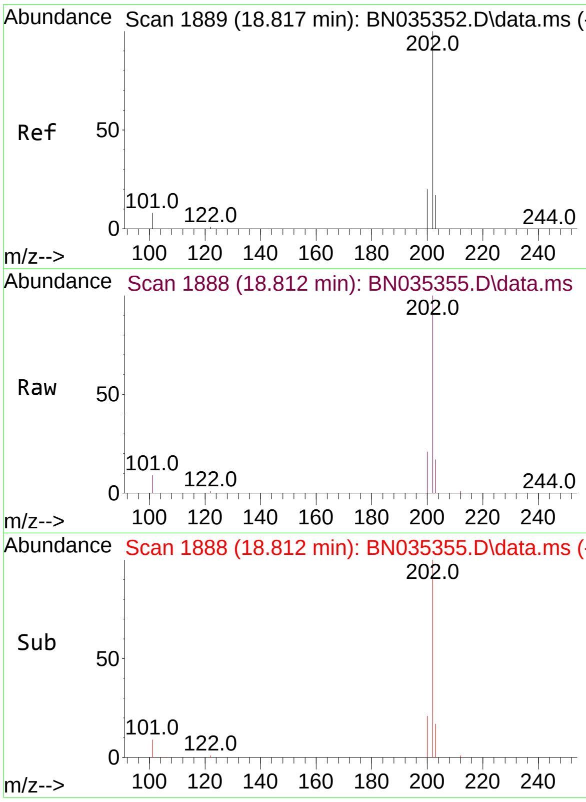
#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

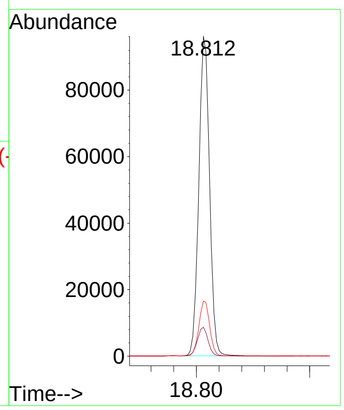
Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.4	5.3	7.9

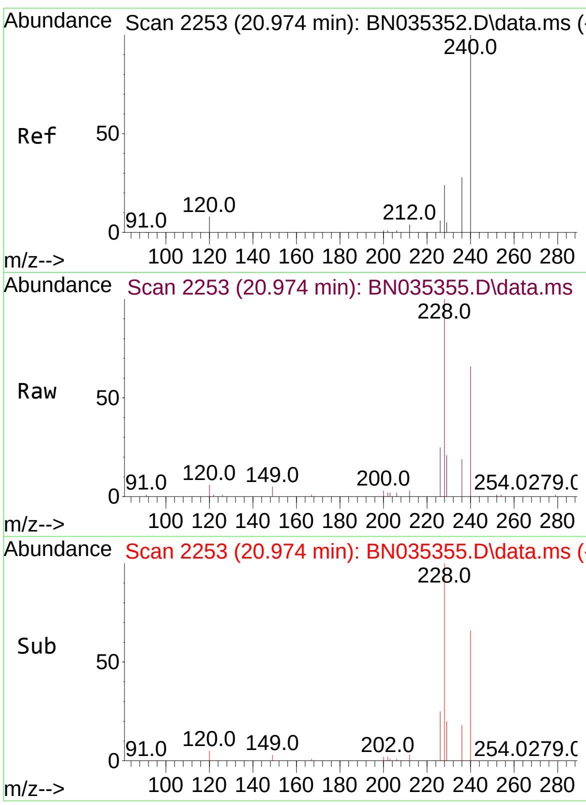


Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

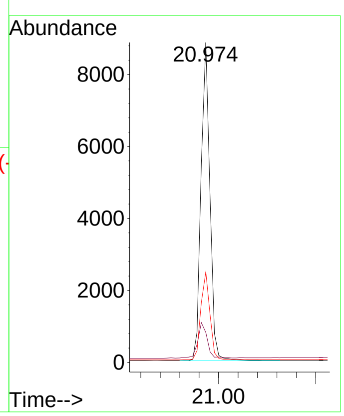



```
#28
Fluoranthene
Concen:     3.309 ng
RT:  18.812 min  Scan# 1
Delta R.T.   -0.005 min
Lab File:    BN035355.D
Acq: 27 Nov 2024  18:33

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
```



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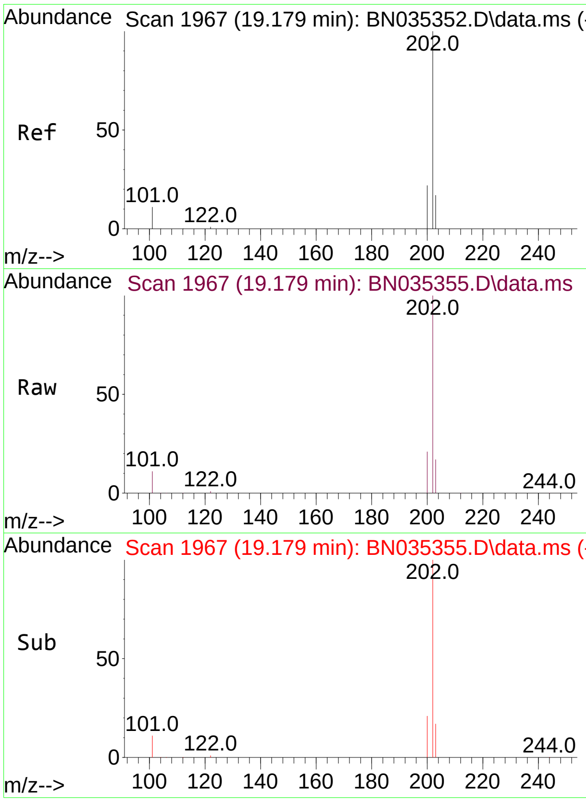
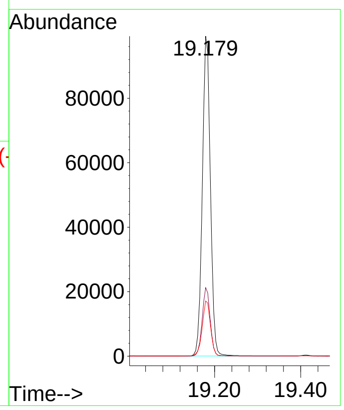
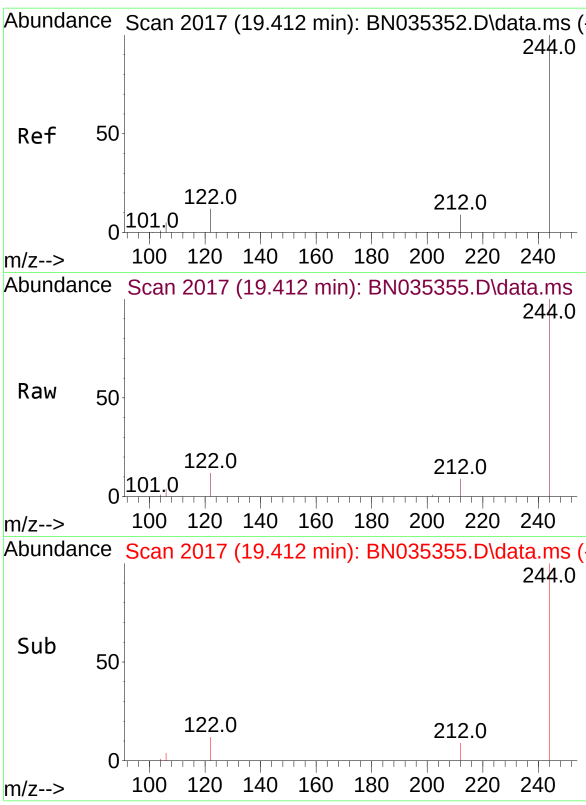
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

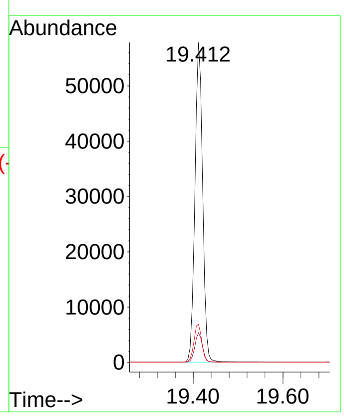



```
#30
Pyrene
Concen:    3.460 ng
RT:  19.179 min  Scan# 1
Delta R.T.  -0.000 min
Lab File:   BN035355.D
Acq: 27 Nov 2024  18:33

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
```

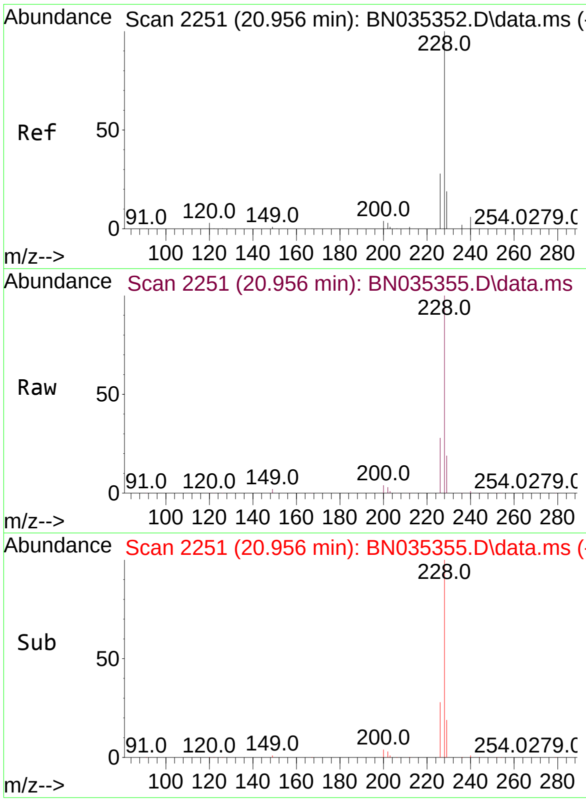





```
#31
Terphenyl-d14
Concen:    2.941 ng
RT:  19.412 min  Scan# 2017
Delta R.T.  -0.000 min
Lab File:   BN035355.D
Acq: 27 Nov 2024  18:33

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
```



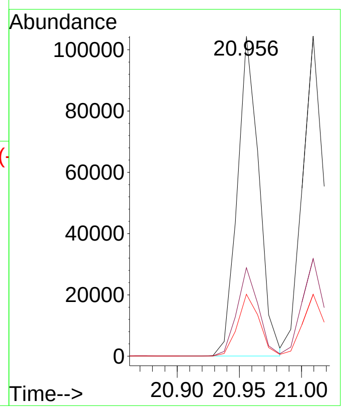
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

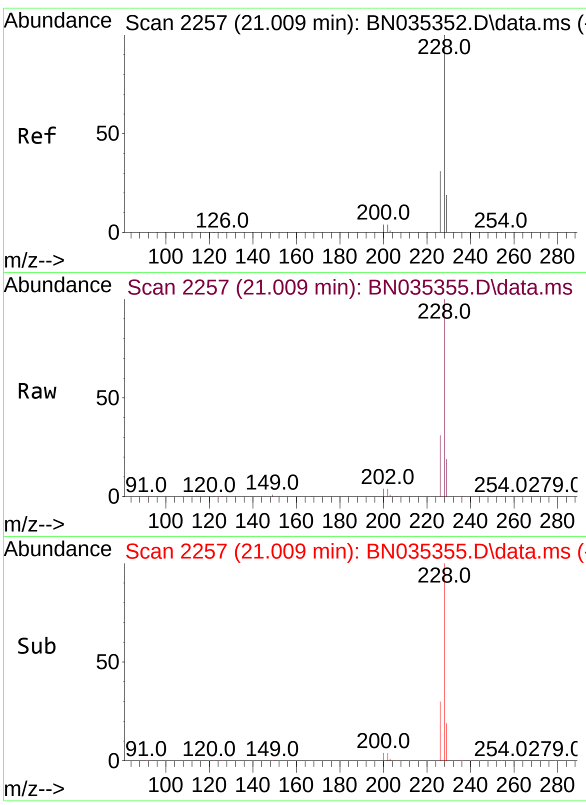


#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

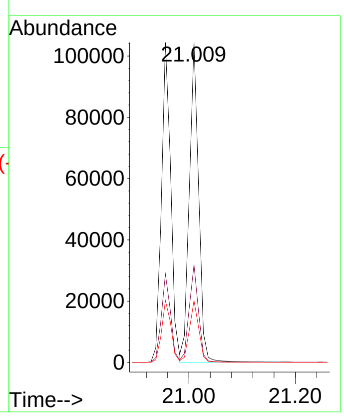




#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

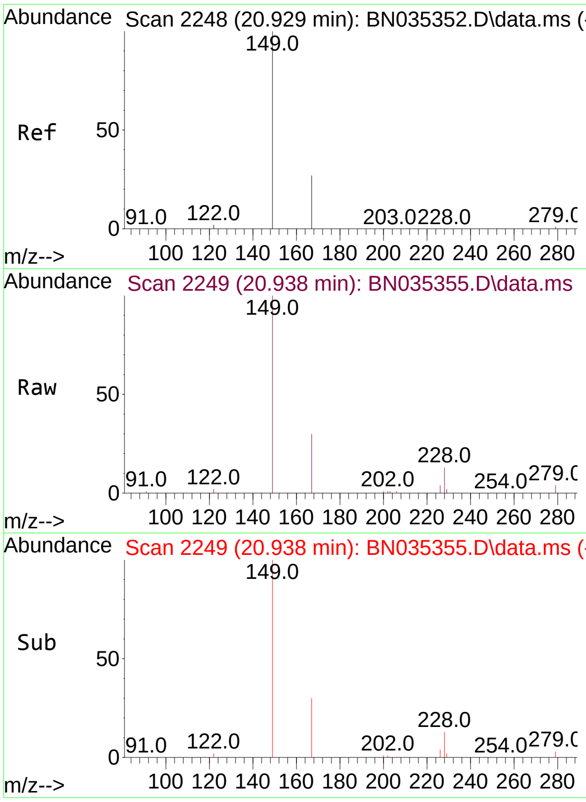
Tgt Ion:228 Resp: 127439

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



ICAL Form

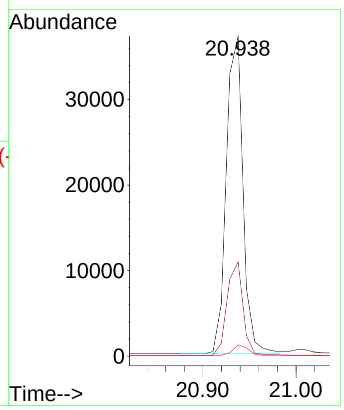
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

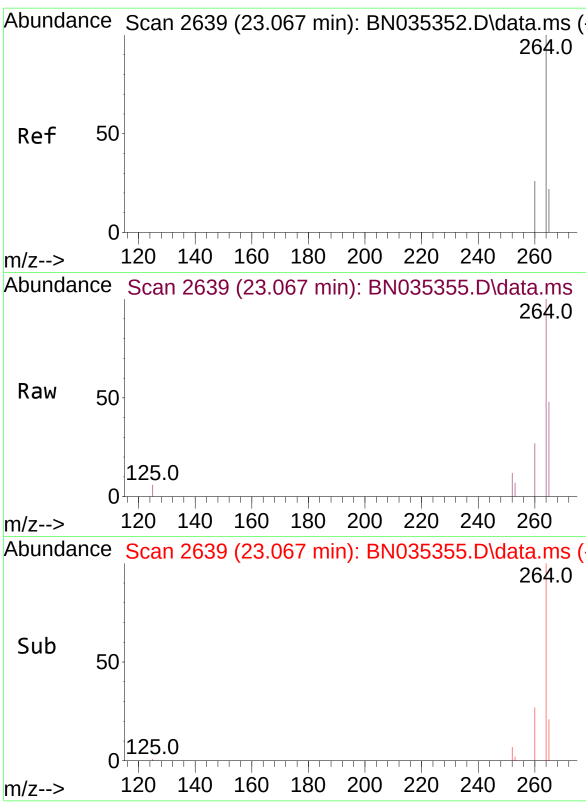


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

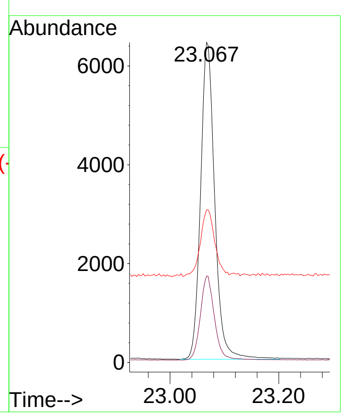




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

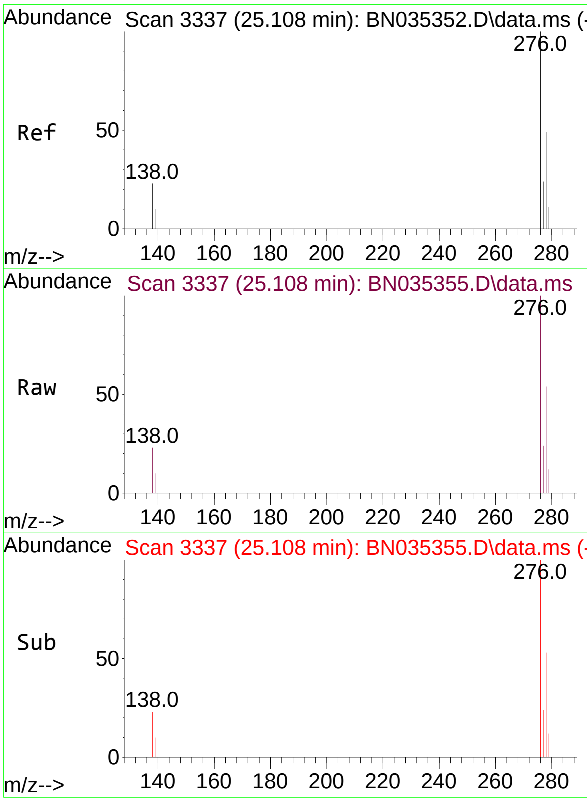
Tgt Ion:264 Resp: 11643

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



ICAL Form

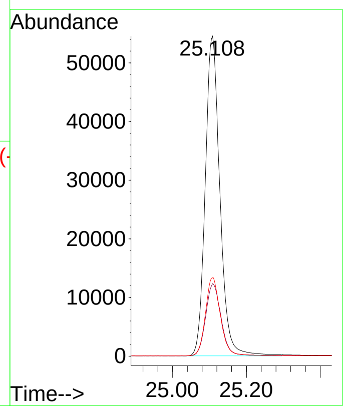
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

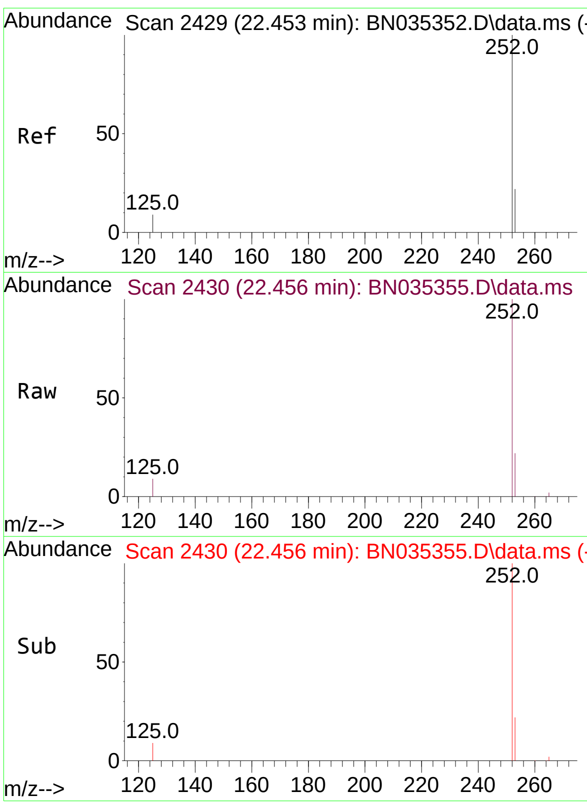


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

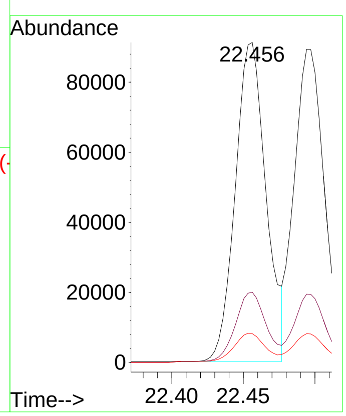




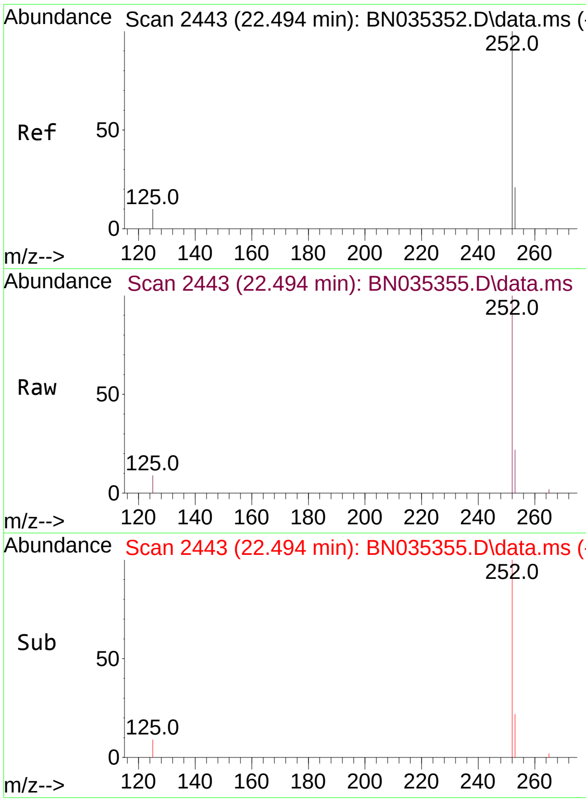
#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#



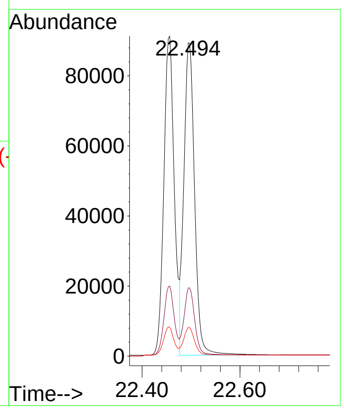
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

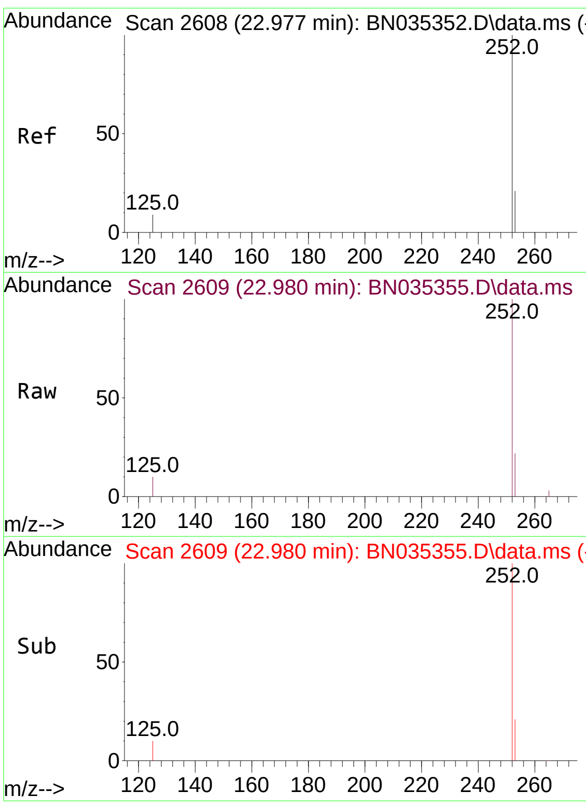


#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#

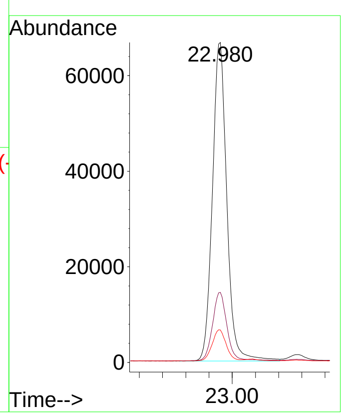




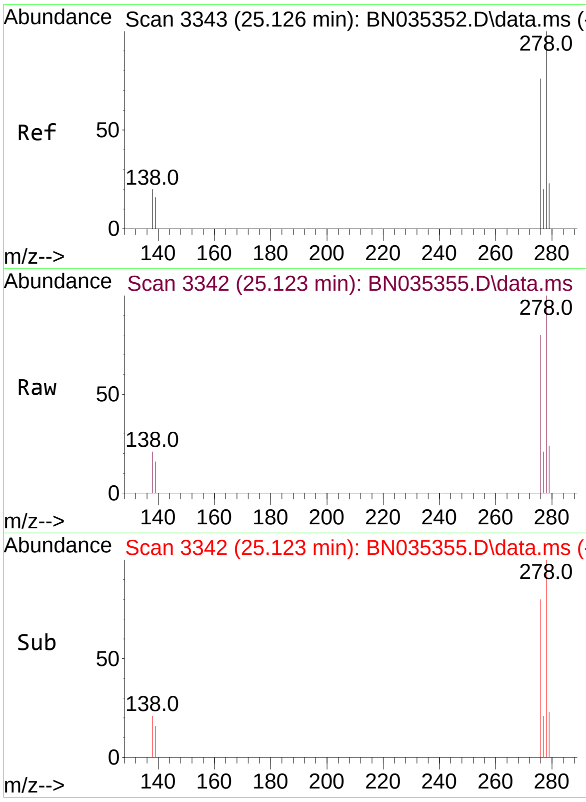
#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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#



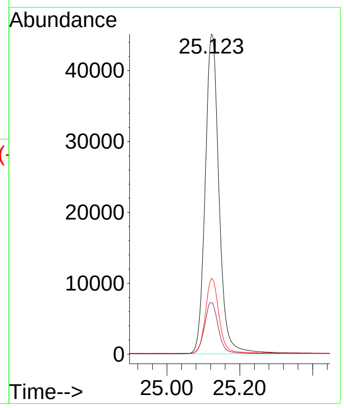
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

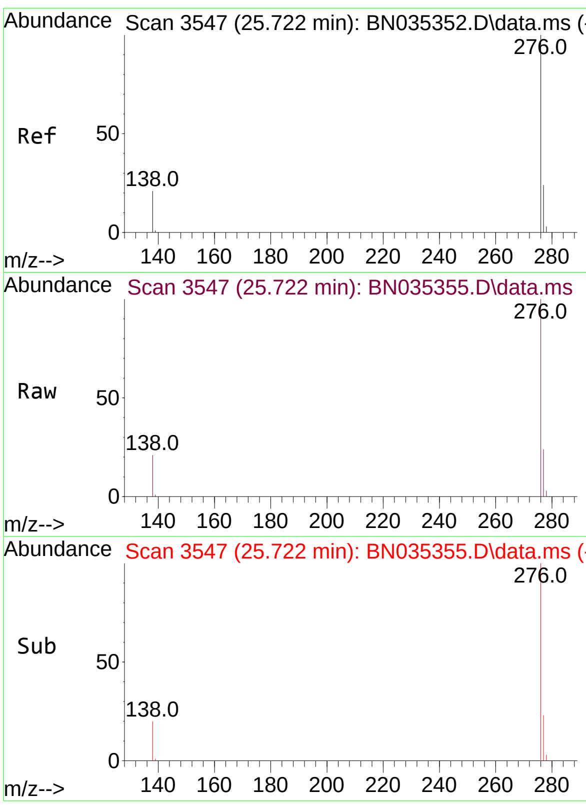


#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

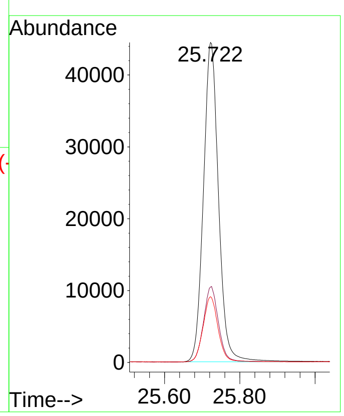




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

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

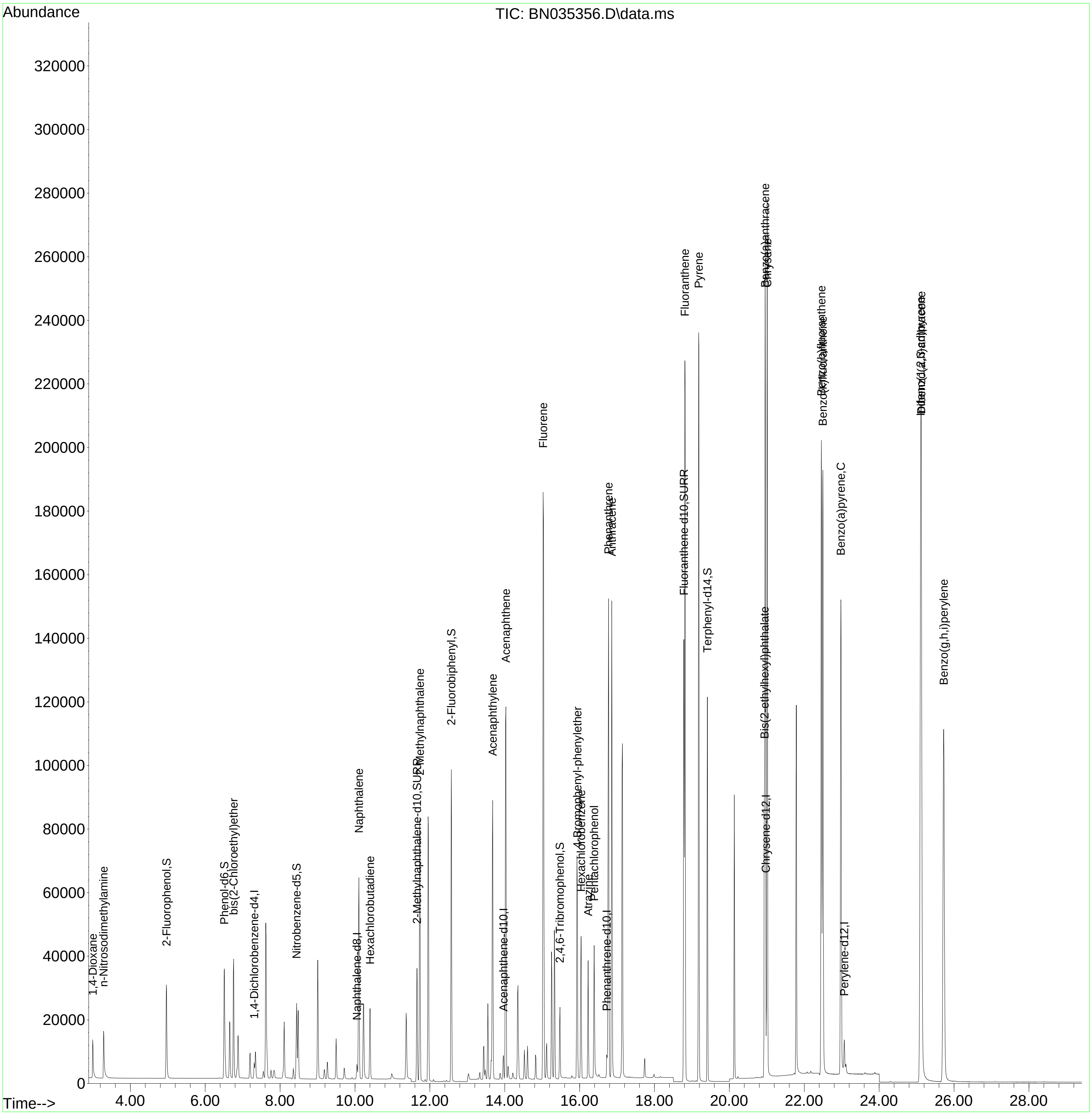
Quantitation Report   (QT Reviewed)

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

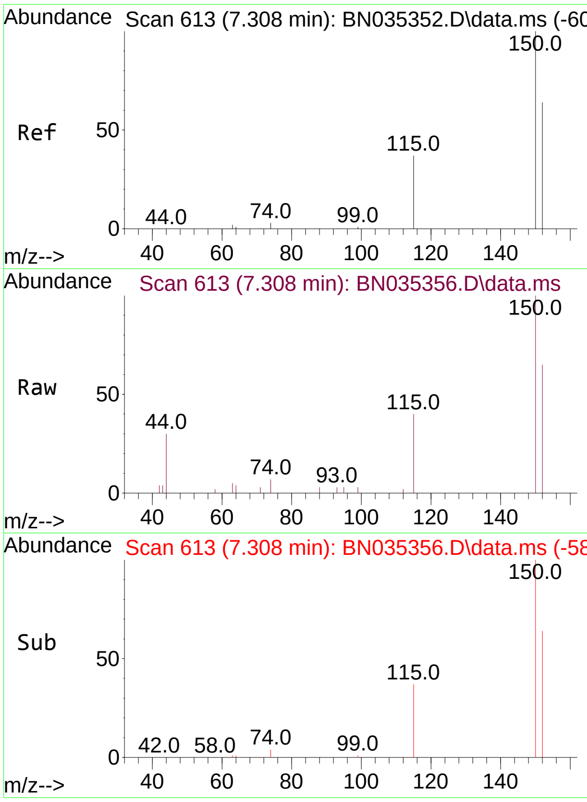
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

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



ICAL Form

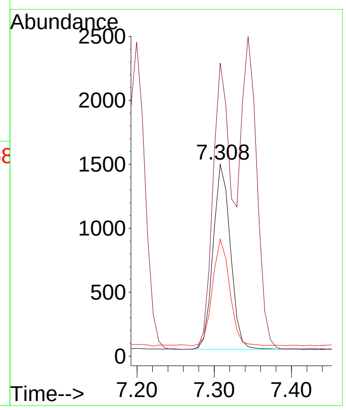
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

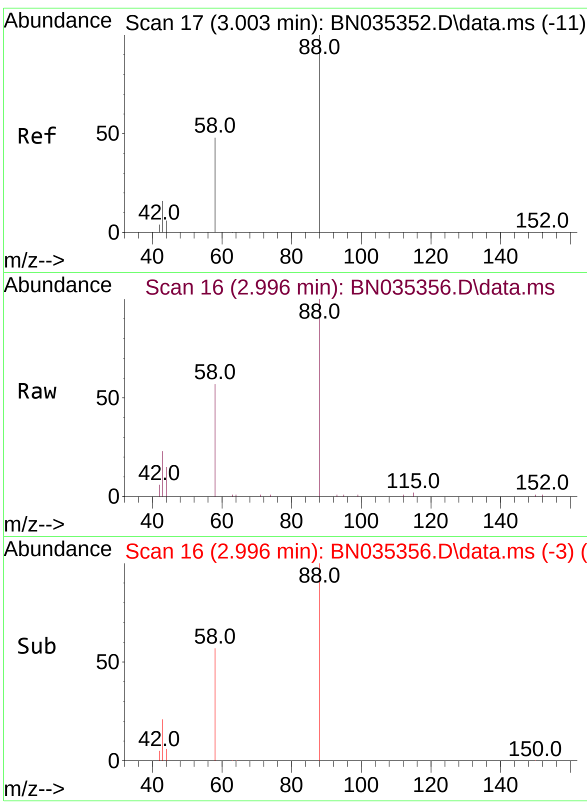


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

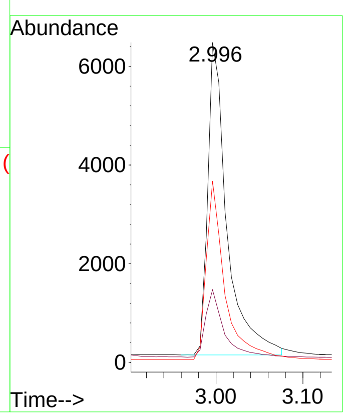




#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

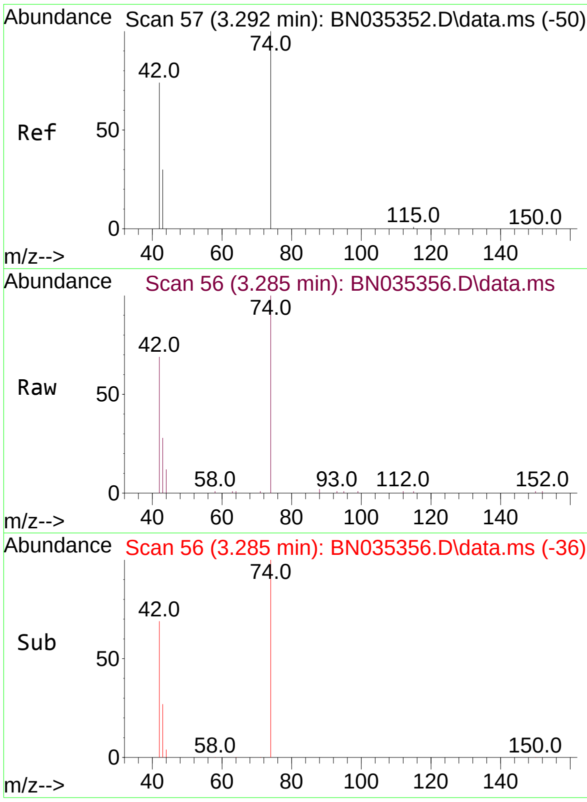
Tgt Ion: 88 Resp: 9786

Ion	Ratio	Lower	Upper
88	100		
43	20.5	17.2	25.8
58	54.8	44.5	66.7



ICAL Form

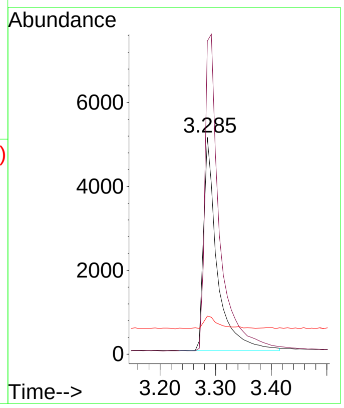
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

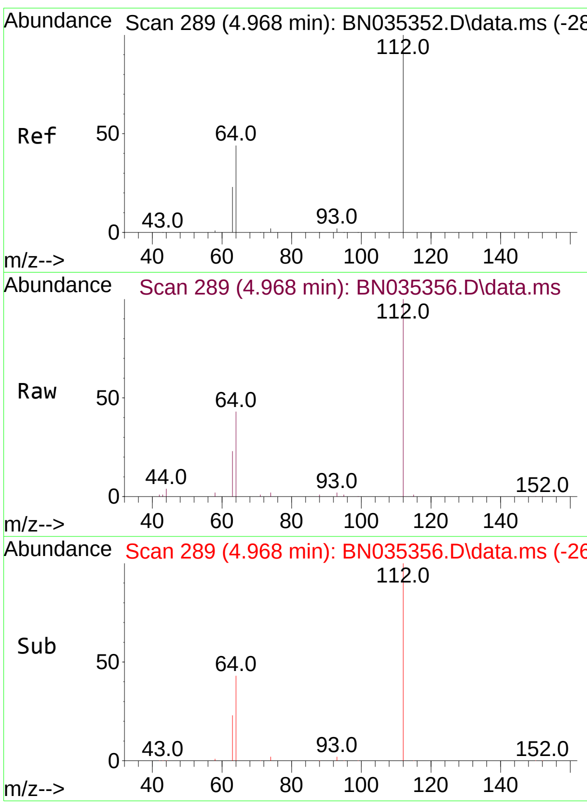


#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min   Scan# 56
Delta R.T.   -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024   19:09

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#

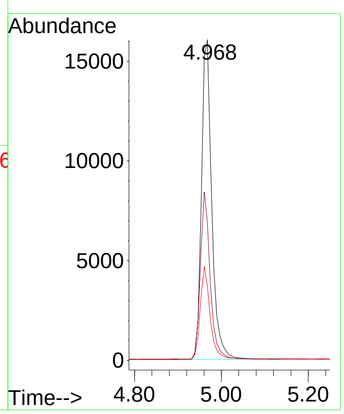




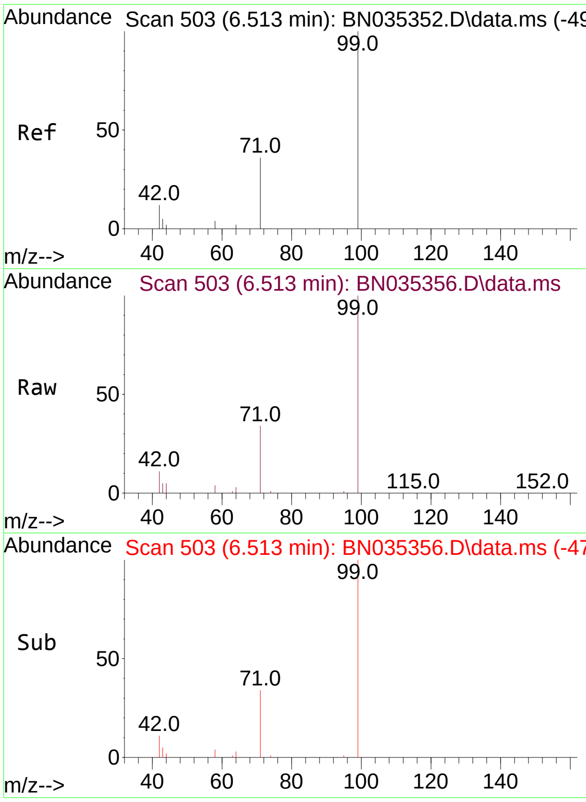
#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min   Scan# 289
Delta R.T.   0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024   19:09

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



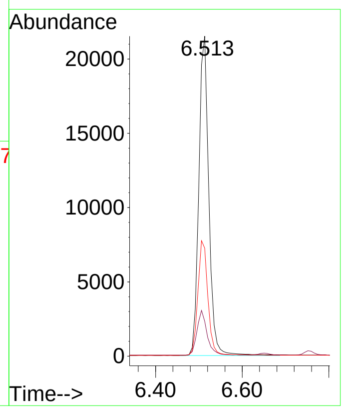
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

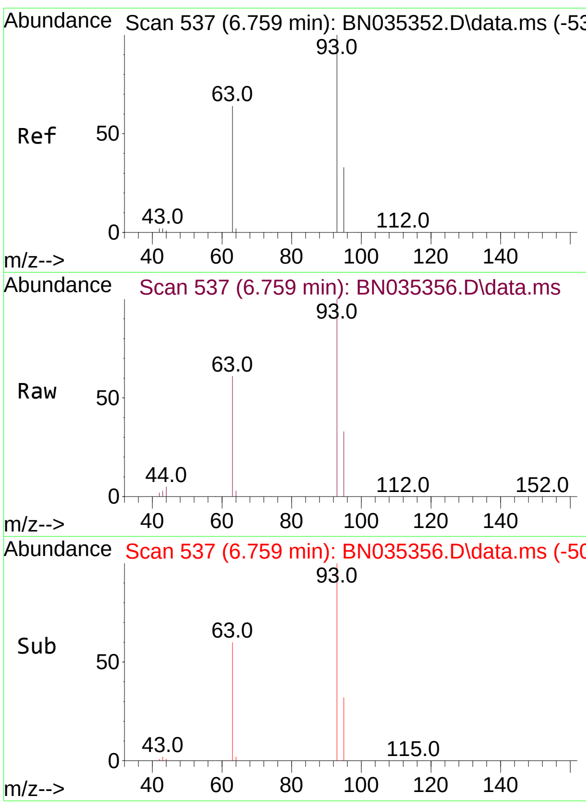


#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

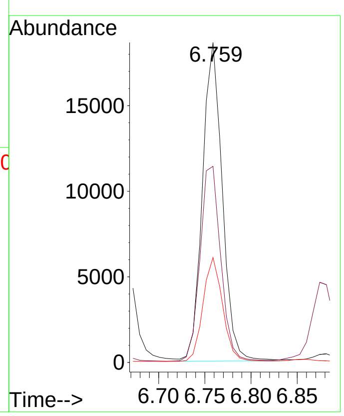




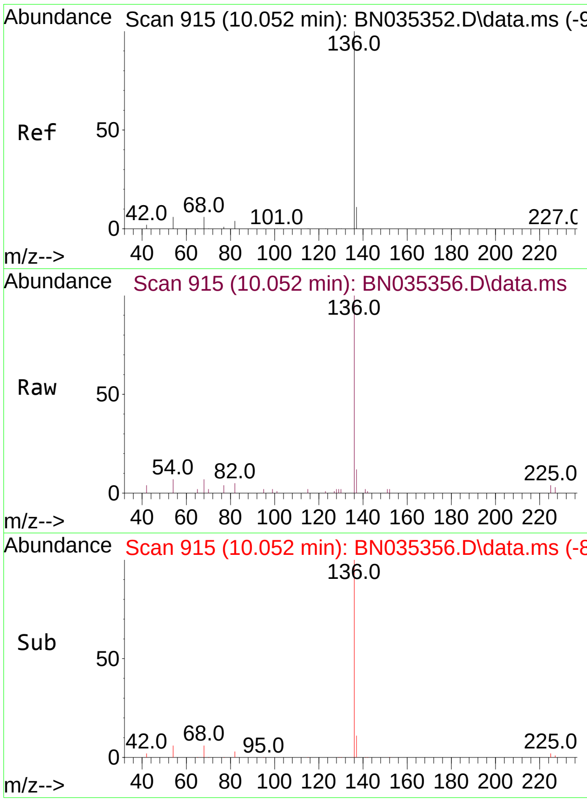
#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



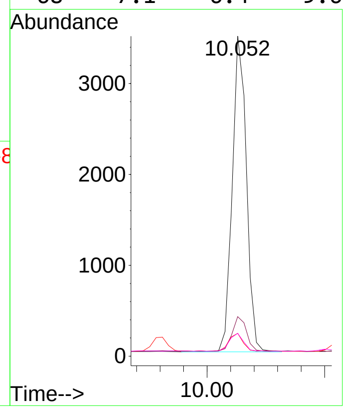
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

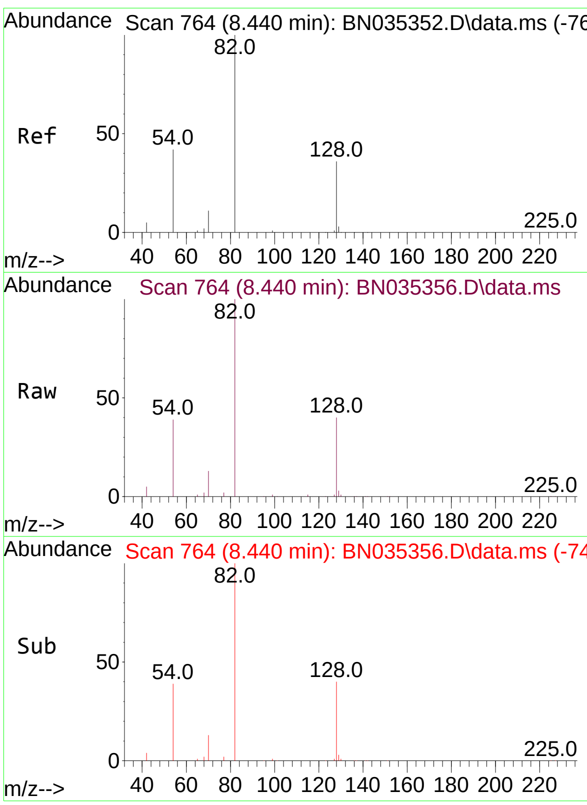


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

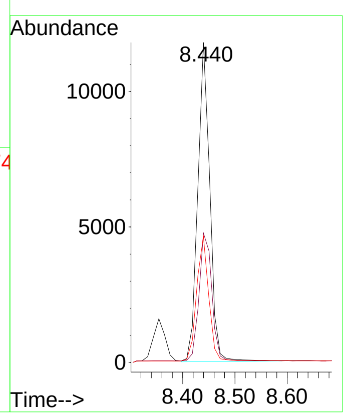




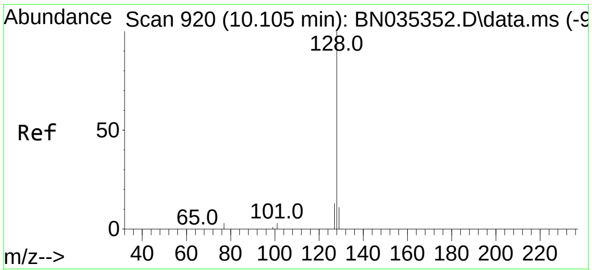
#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

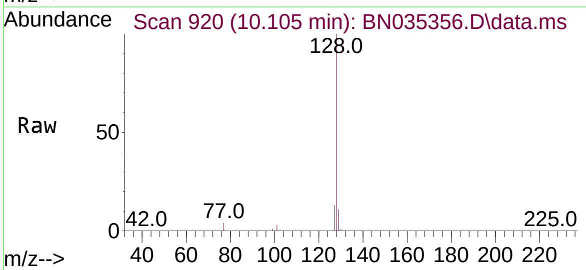
Tgt Ion: 82 Resp: 18911

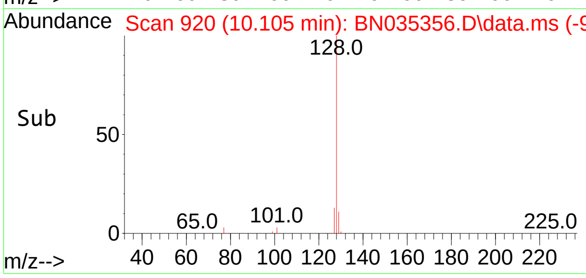
Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.4	50.0
54	39.4	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



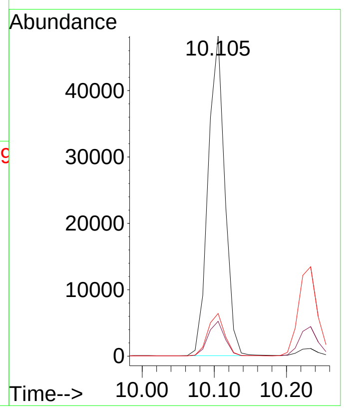


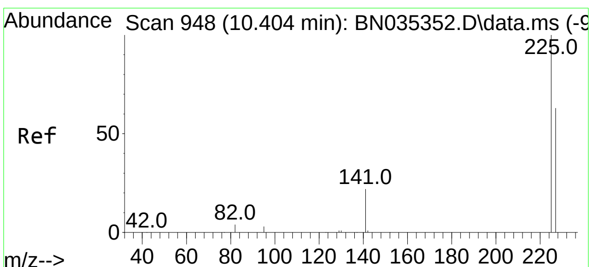


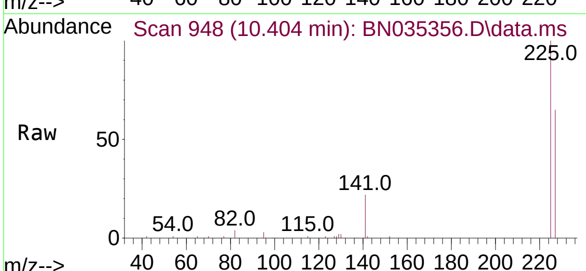
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

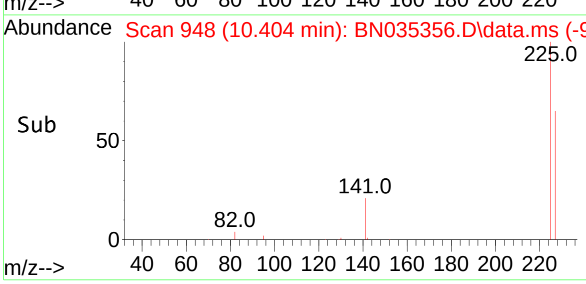
Tgt Ion:128 Resp: 77668

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.8	14.6
127	13.4	11.4	17.2





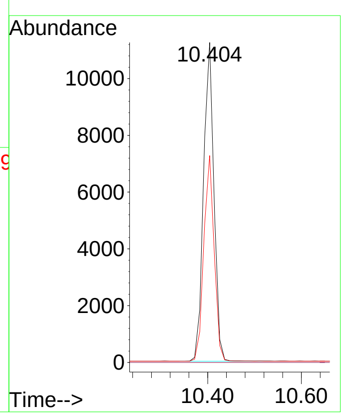




#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

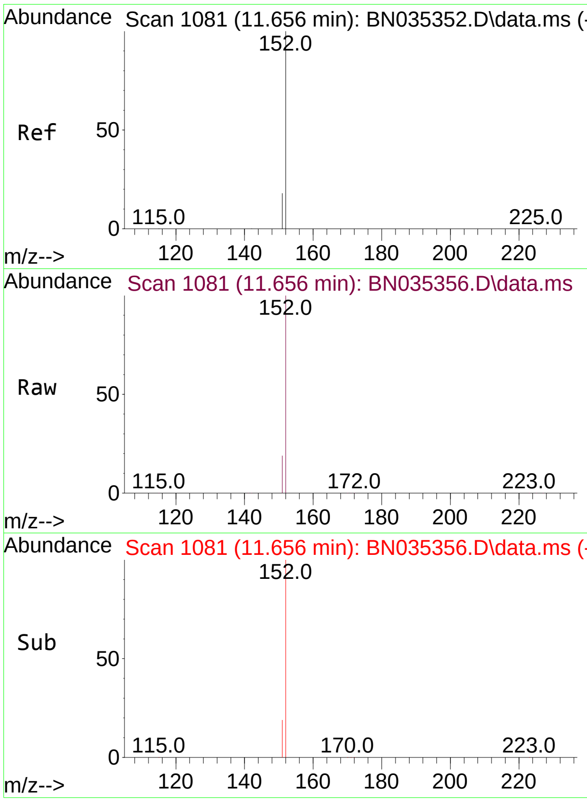
Tgt Ion:225 Resp: 17273

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	51.3	76.9



ICAL Form

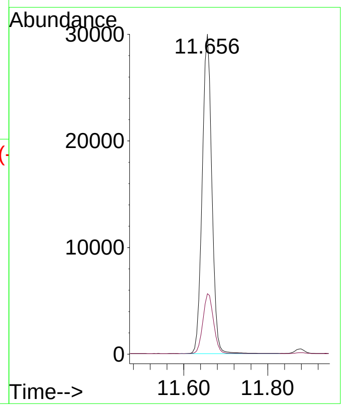
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

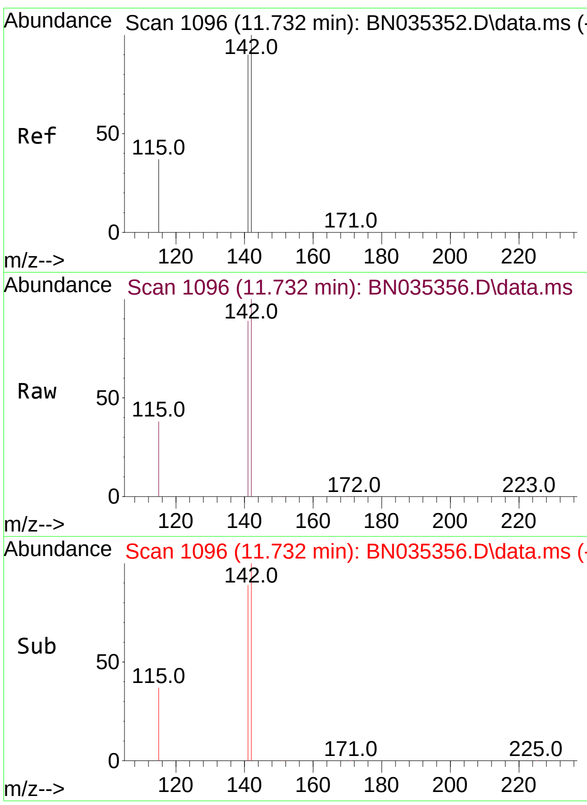


#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

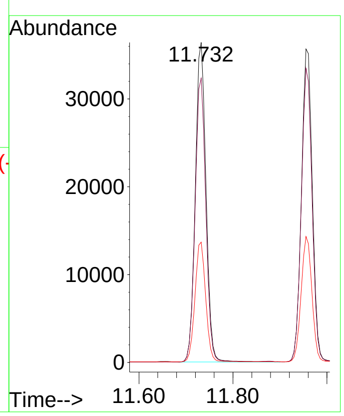




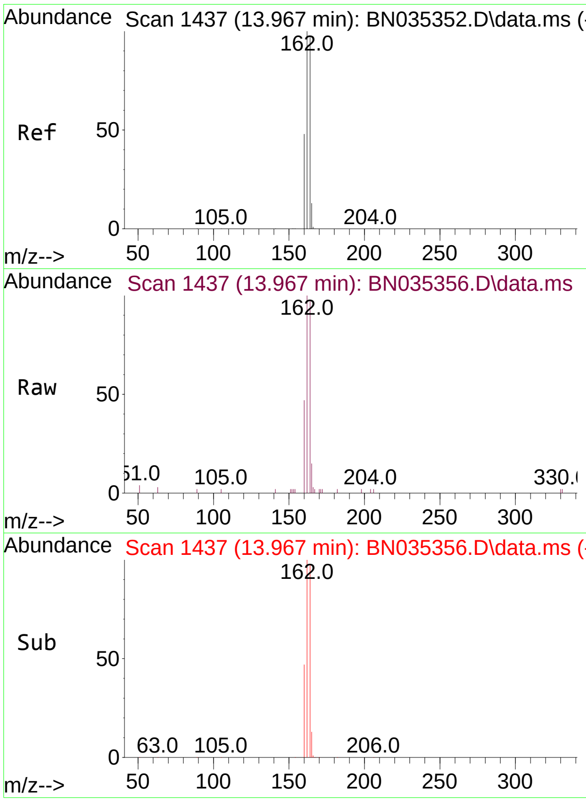
#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



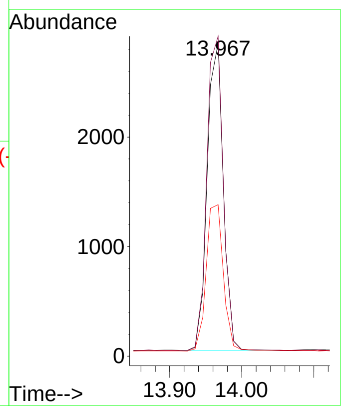
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

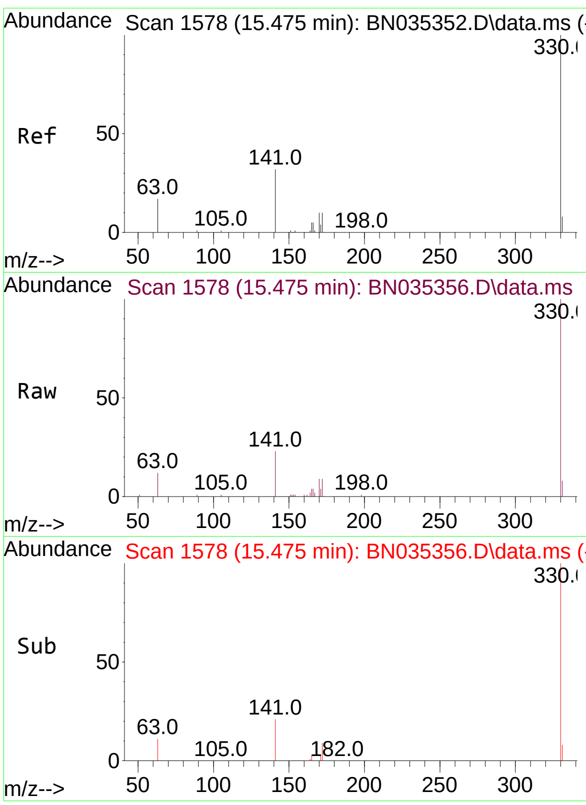


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min   Scan# 14
Delta R.T.   0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024   19:09

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

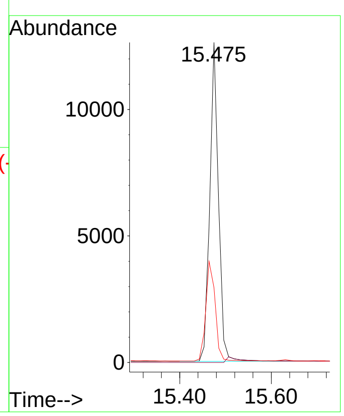




#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min   Scan# 1578
Delta R.T.   0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024   19:09

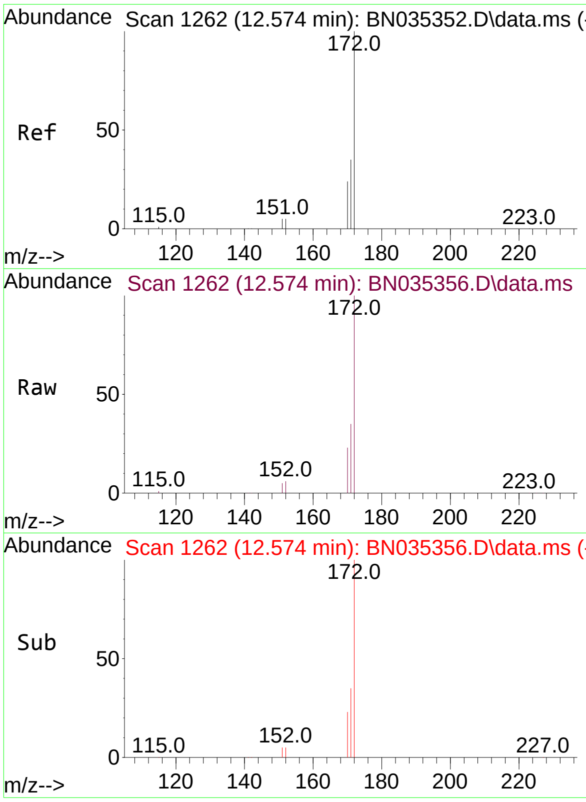
Tgt Ion:330 Resp: 17905

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0



ICAL Form

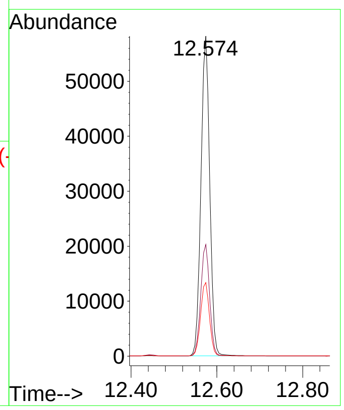
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

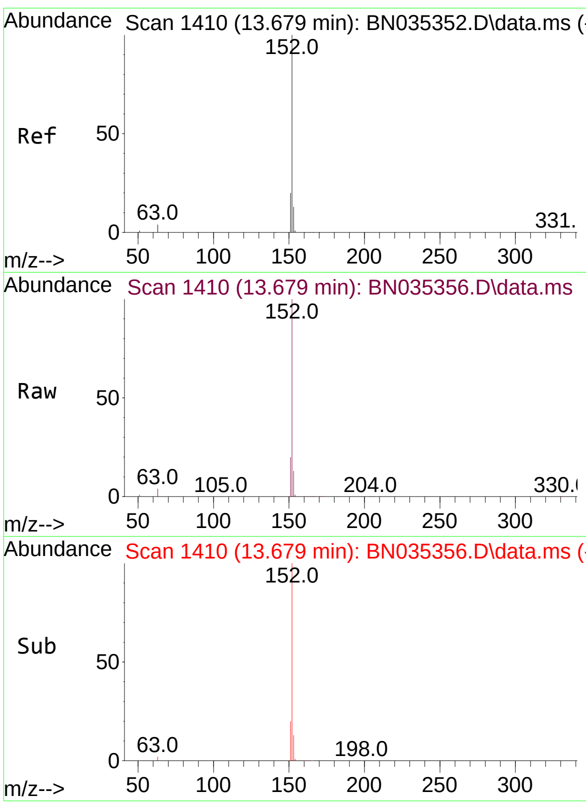


#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

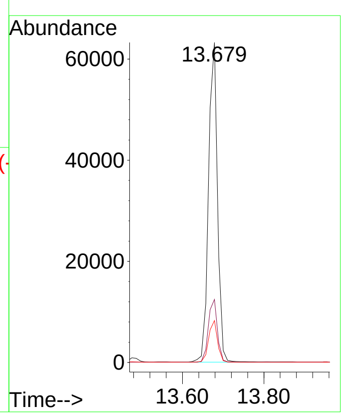




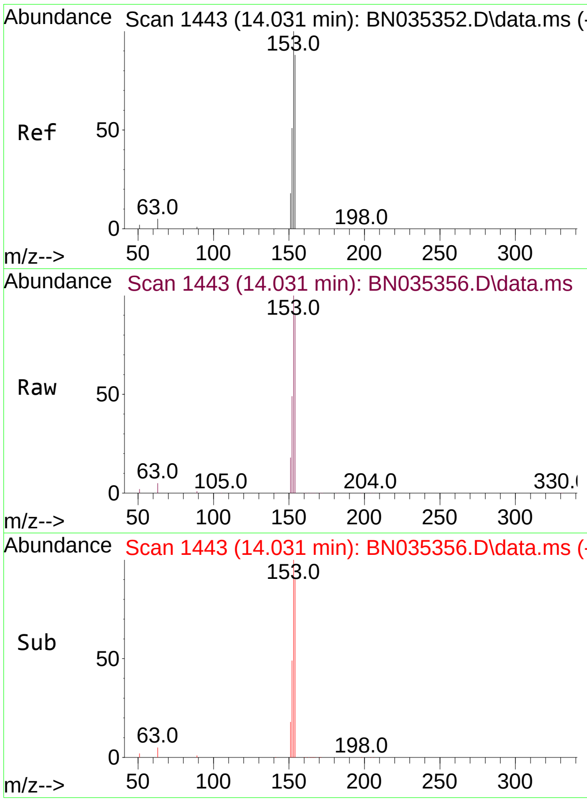
#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



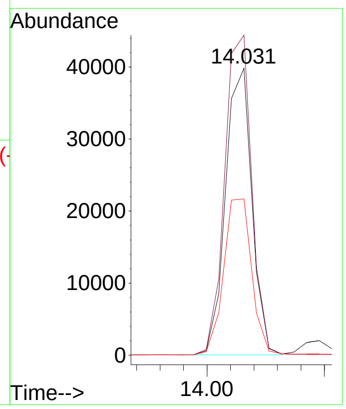
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

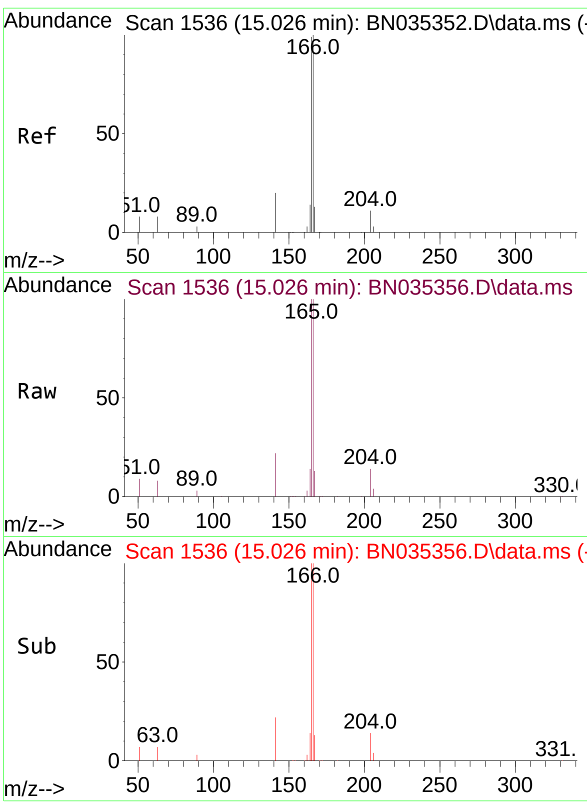


#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

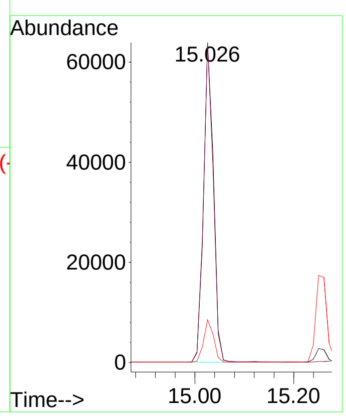




#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

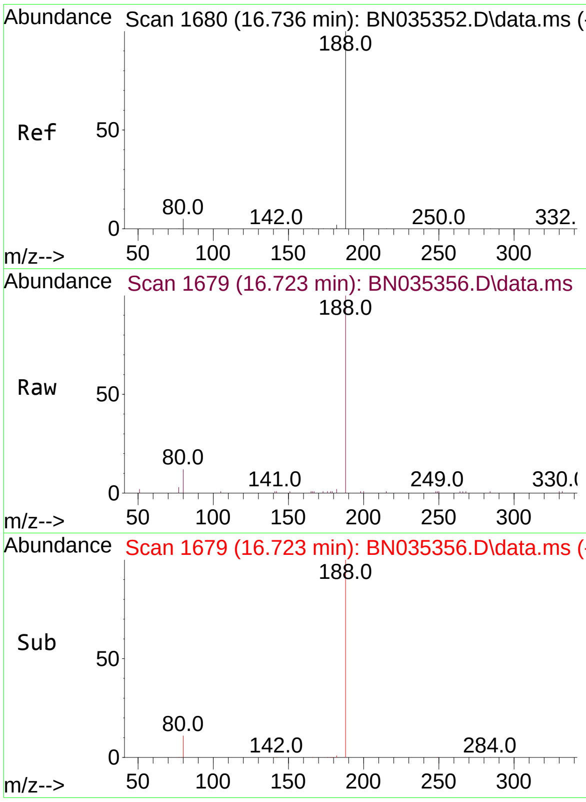
Tgt Ion:166 Resp: 88648

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.7	119.5
167	13.4	10.8	16.2

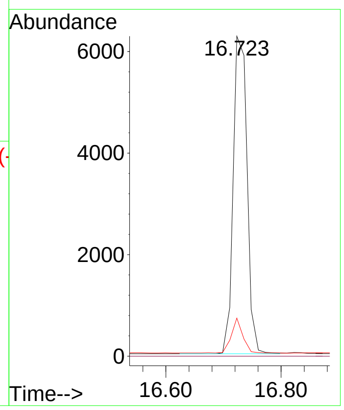


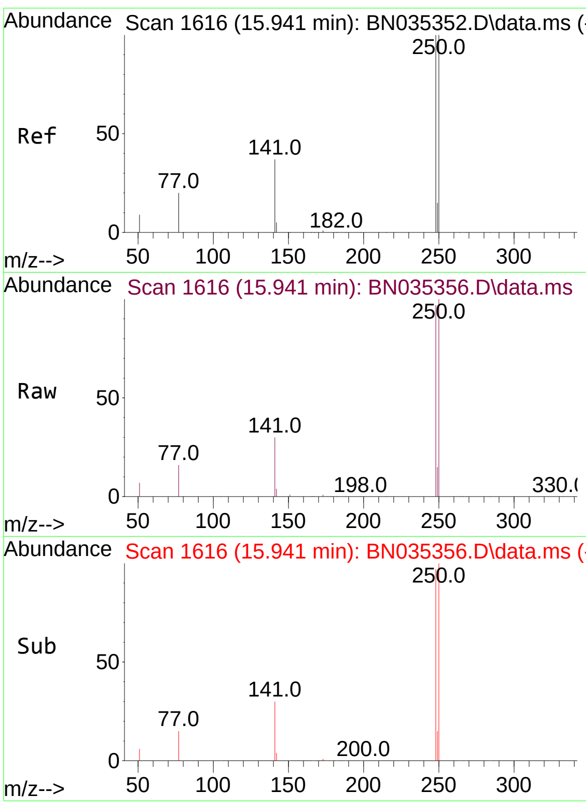
ICAL Form

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

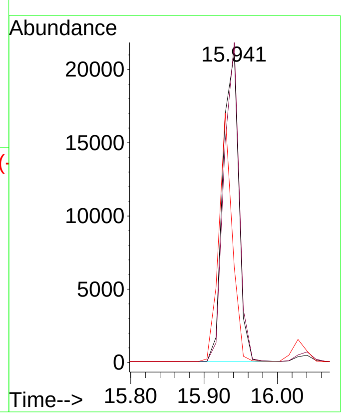



```
#19
Phenanthrene-d10
Concen:    0.400 ng
RT:  16.723 min  Scan# 1(
Delta R.T.  -0.012 min
Lab File:   BN035356.D
Acq: 27 Nov 2024  19:09

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#
```

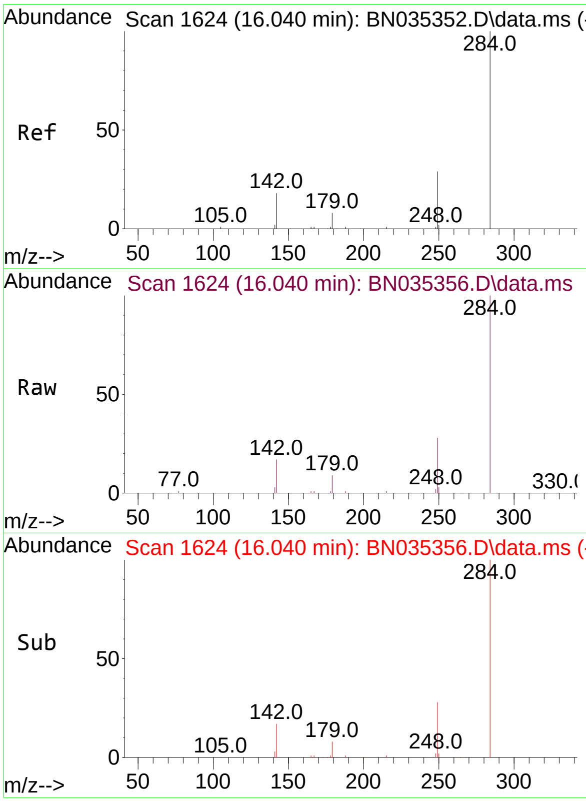





```
#21
4-Bromophenyl-phenylether
Concen:    4.785 ng
RT:  15.941 min  Scan# 1616
Delta R.T.  0.000 min
Lab File:   BN035356.D
Acq: 27 Nov 2024  19:09

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#
```



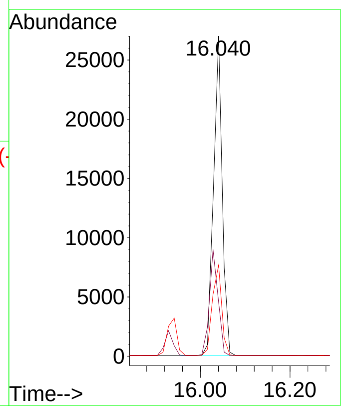
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

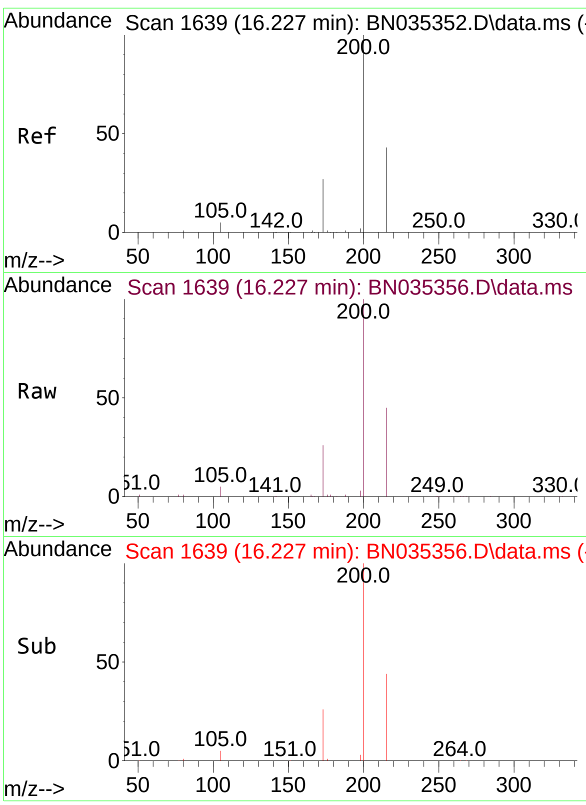


#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

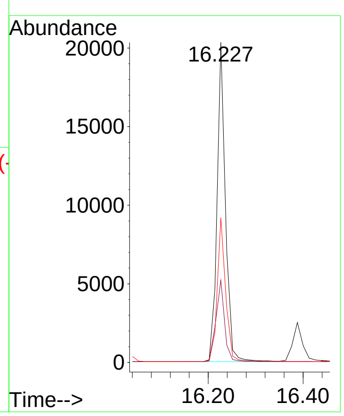




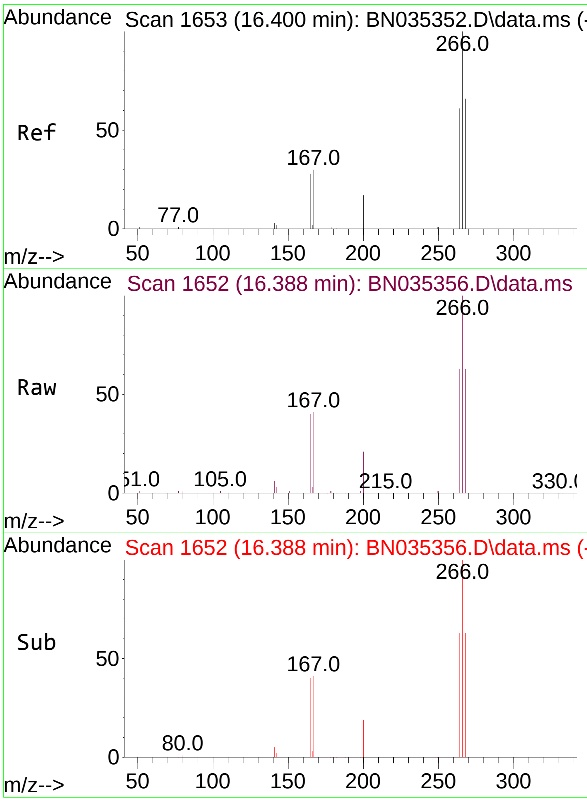
#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



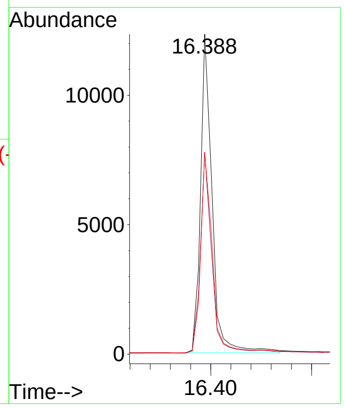
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

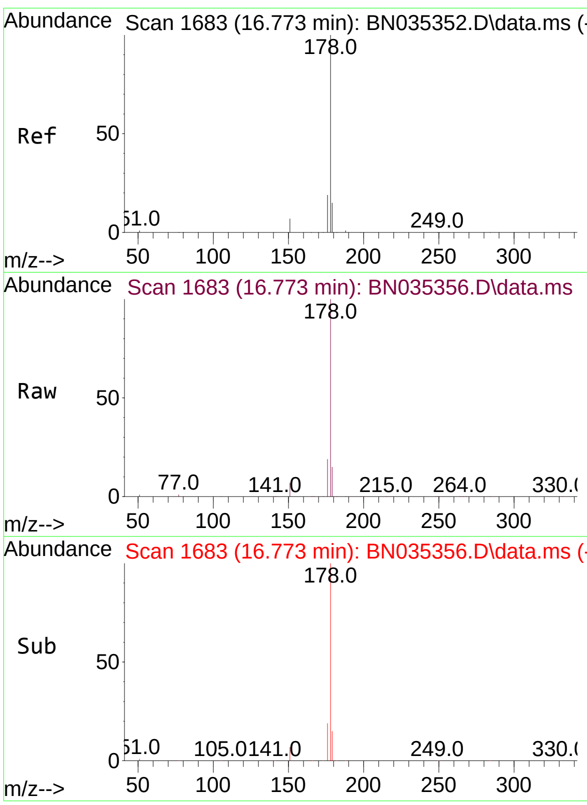


#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

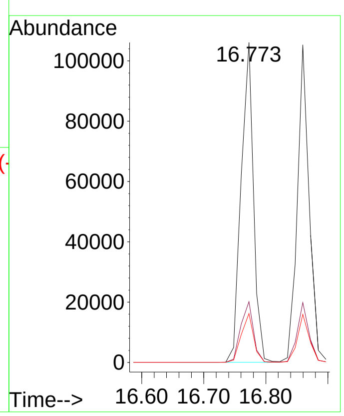




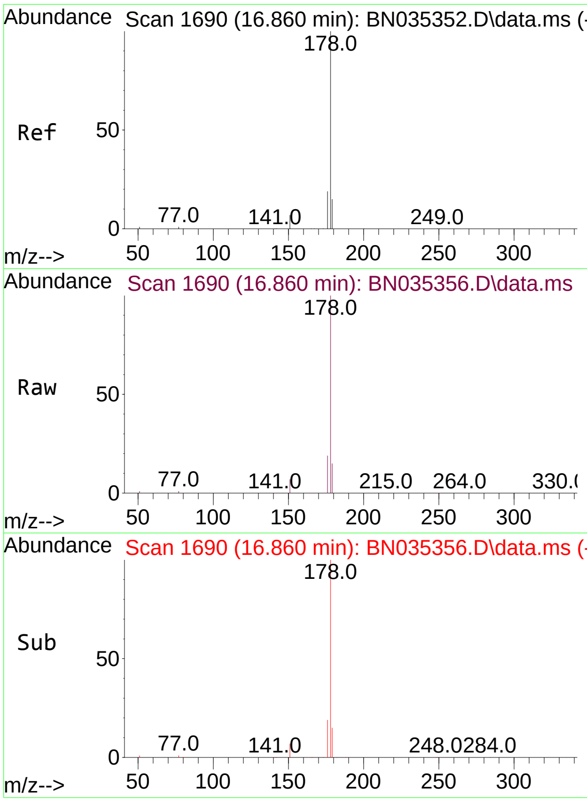
#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



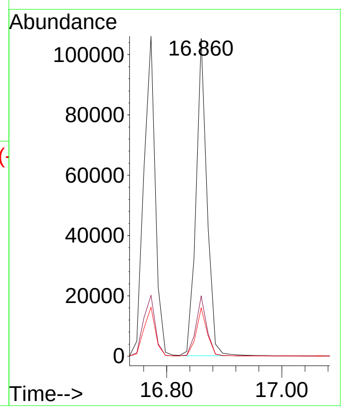
Instrument : BNA_N
ClientSampleId : SSTDICC5.0

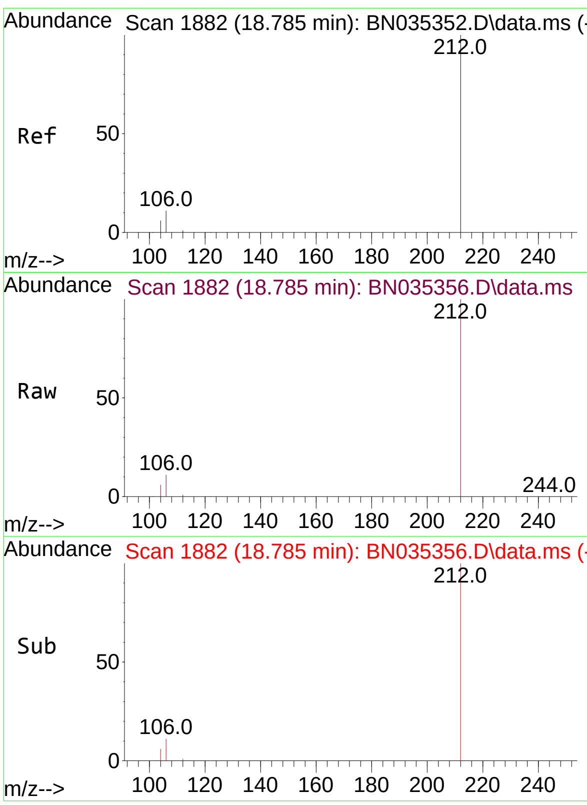


#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

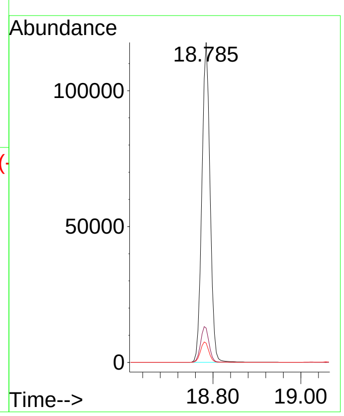




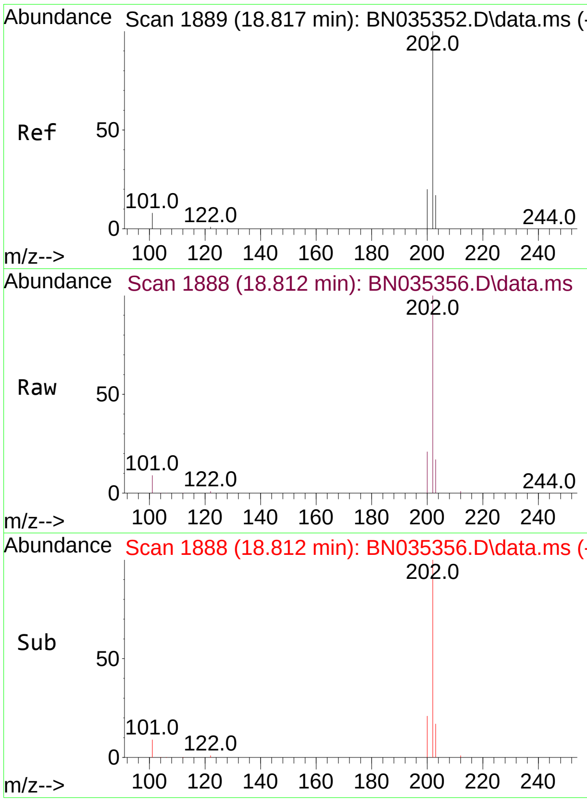
#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



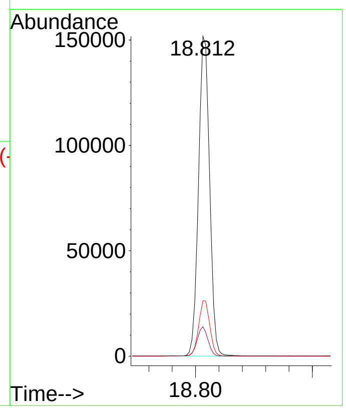
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

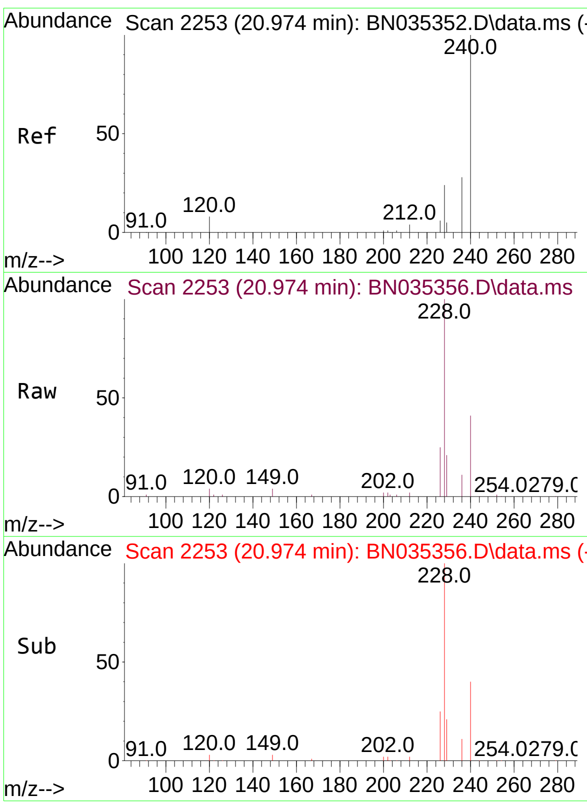


#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

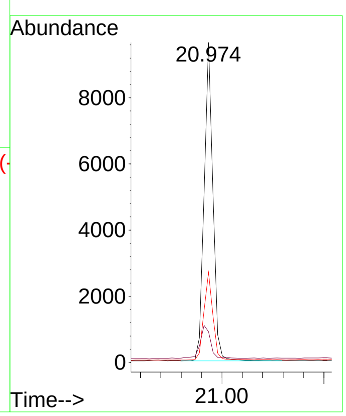




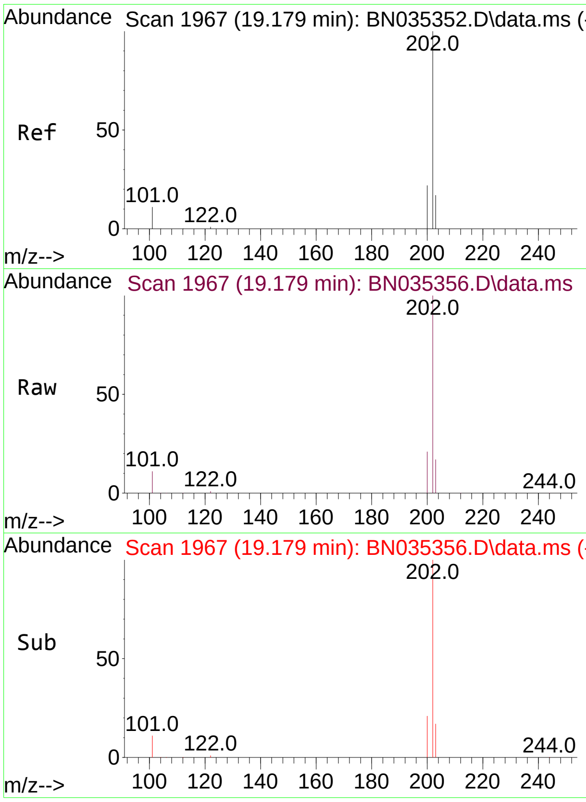
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



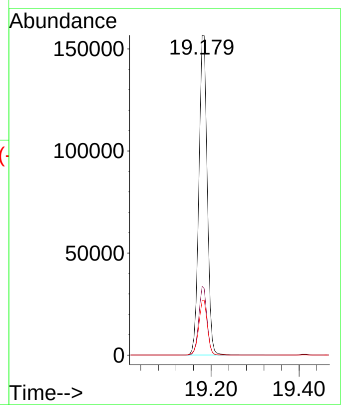
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

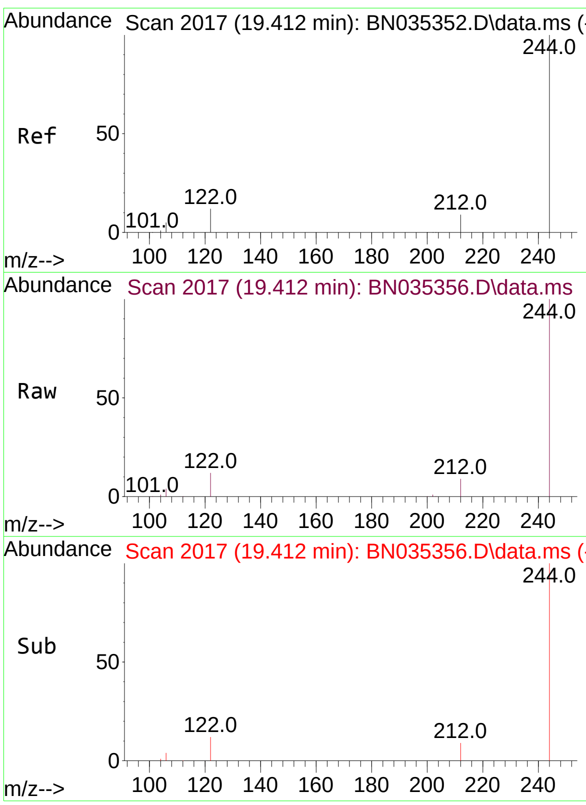


#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

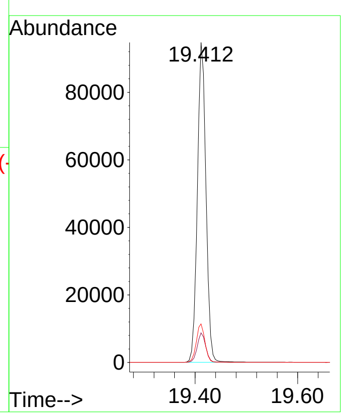




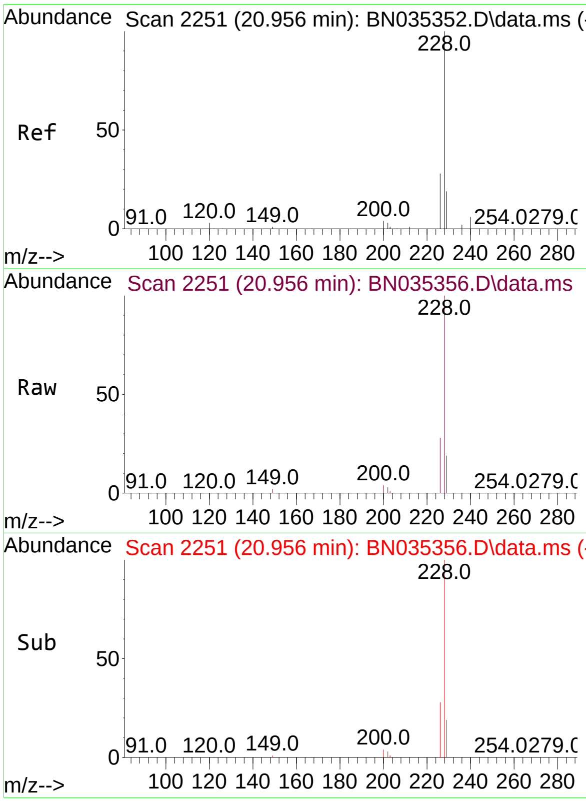
#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



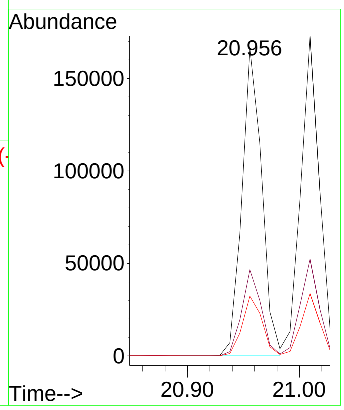
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

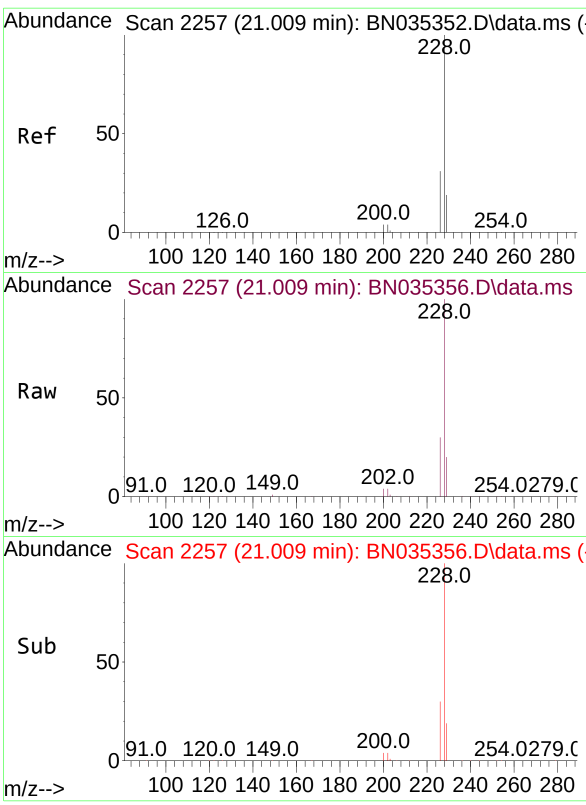


#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

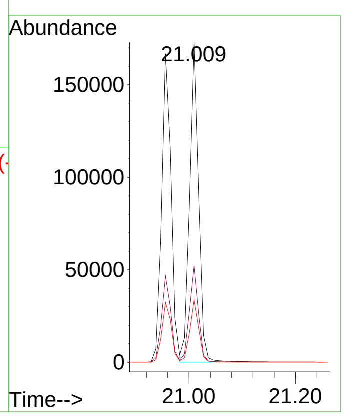




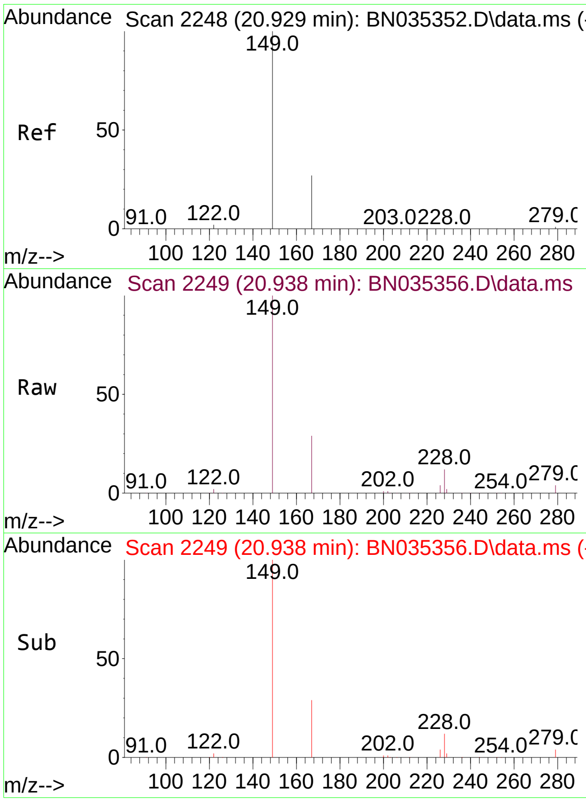
#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



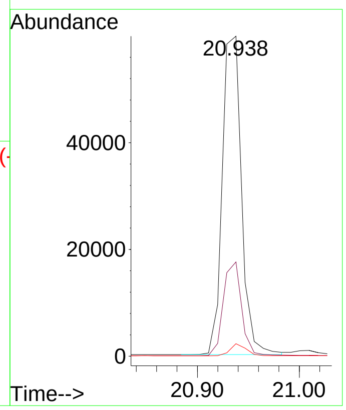
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

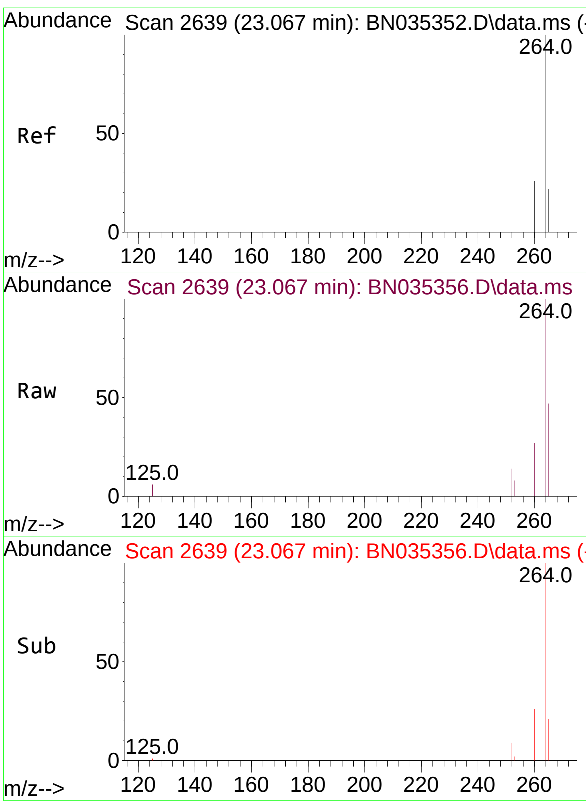


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

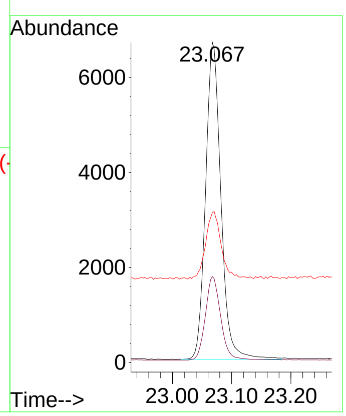




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

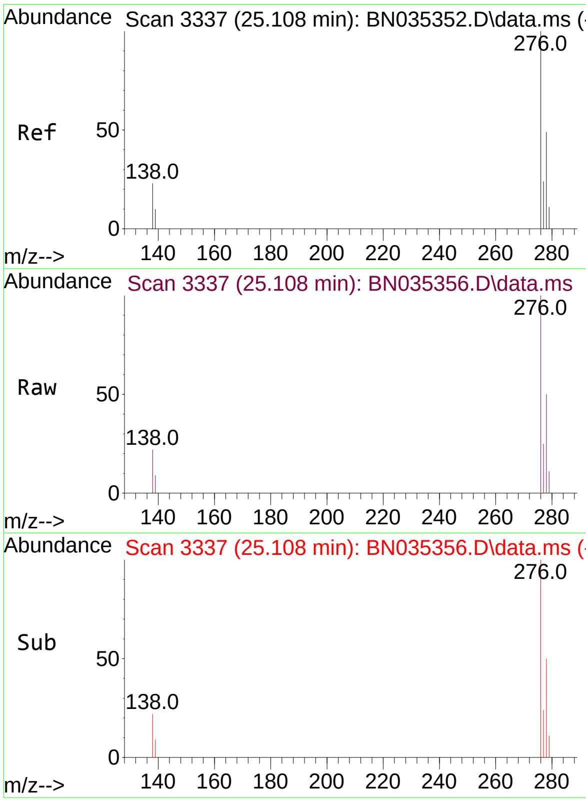
Tgt Ion:264 Resp: 12000

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	46.8	40.2	60.4



ICAL Form

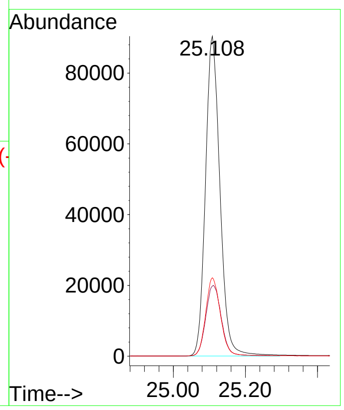
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

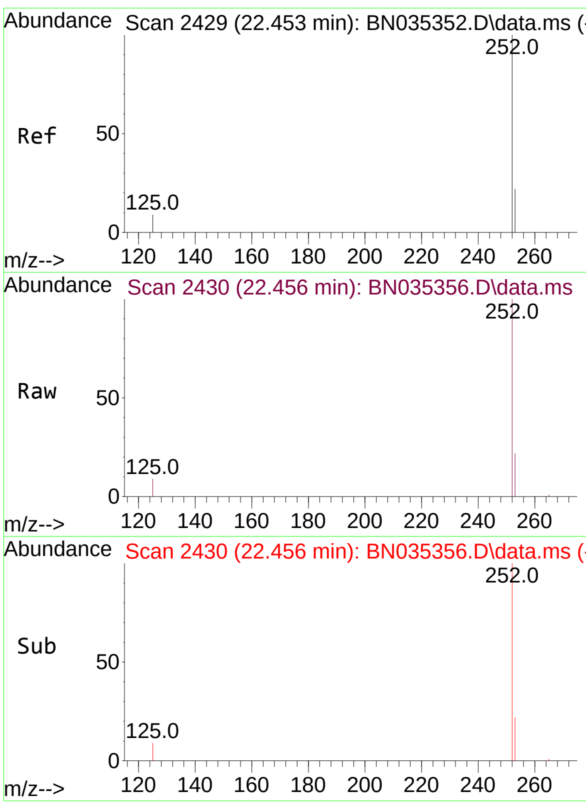


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

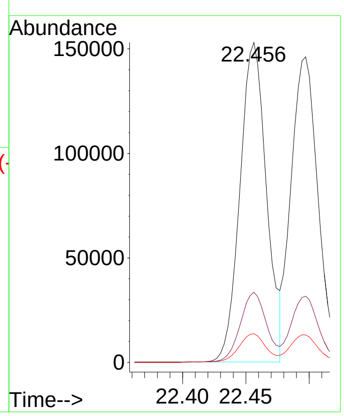




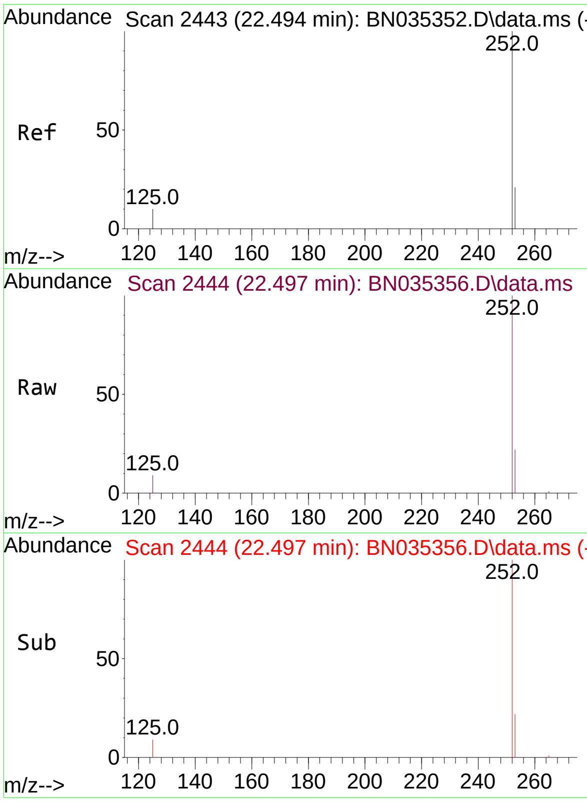
#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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#



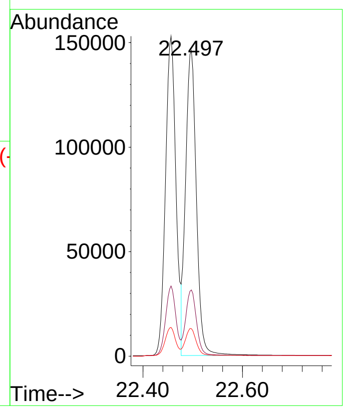
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

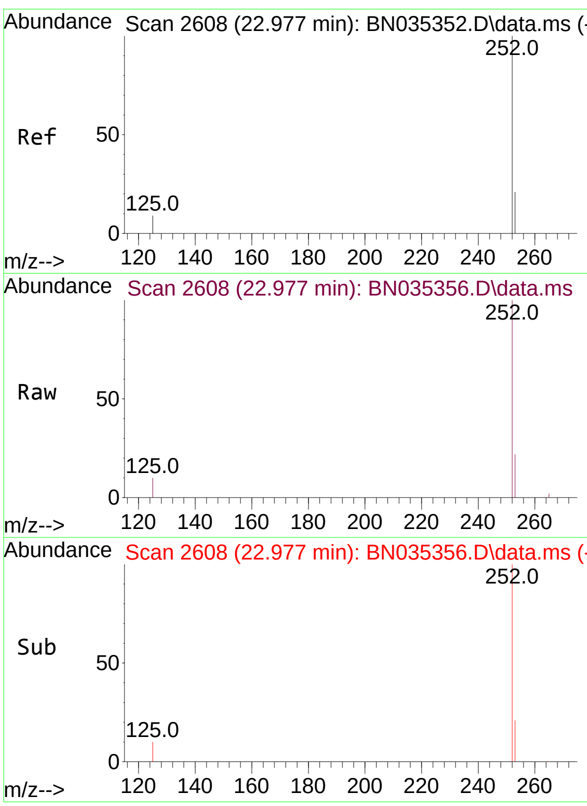


#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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#

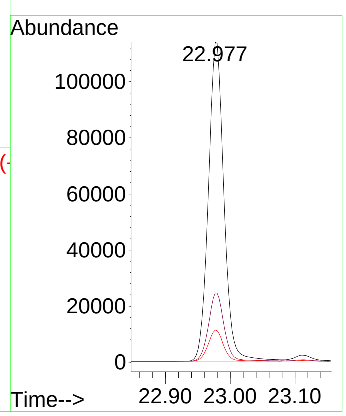




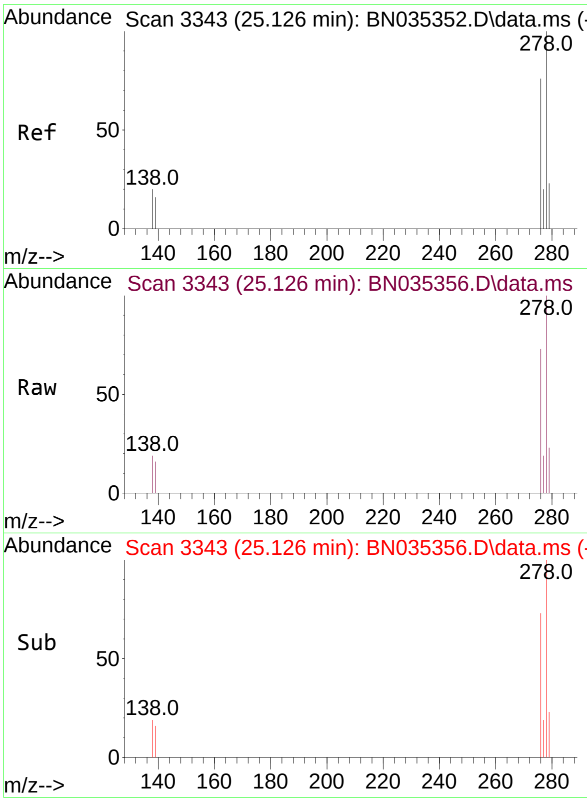
#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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#



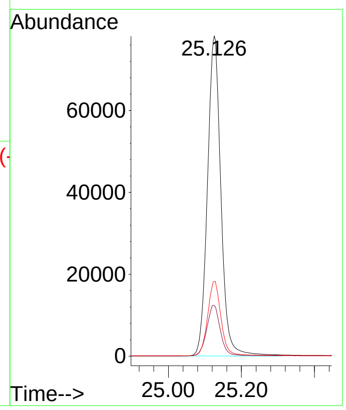
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

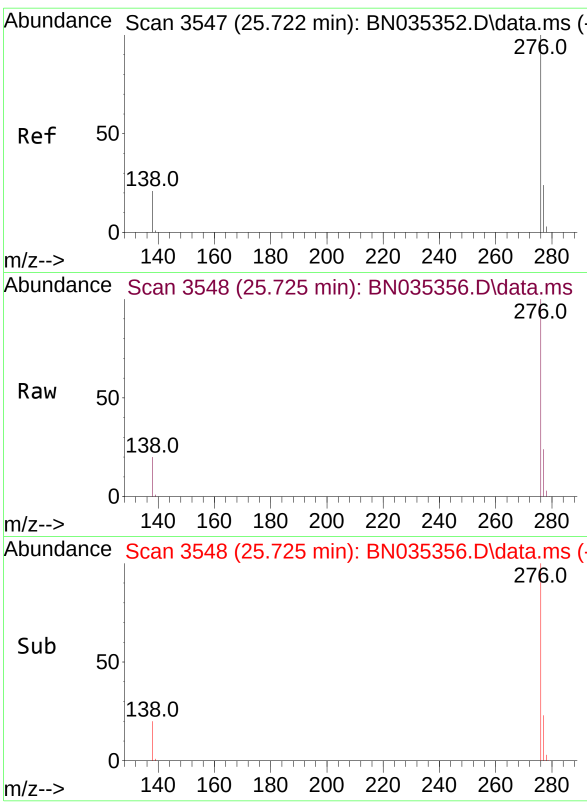


#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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

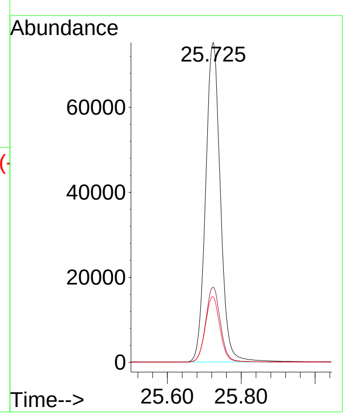




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

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



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

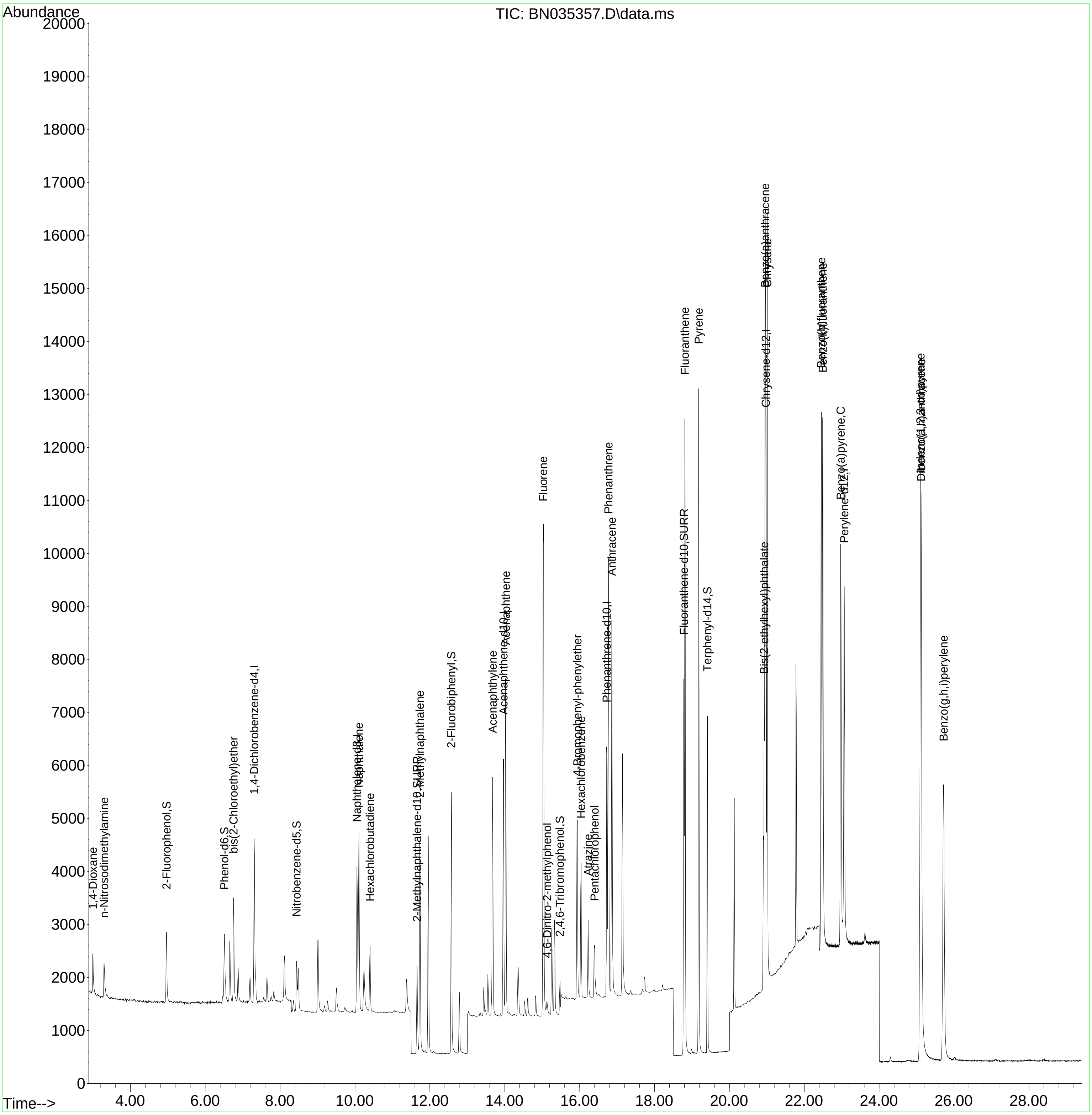
ICAL Form

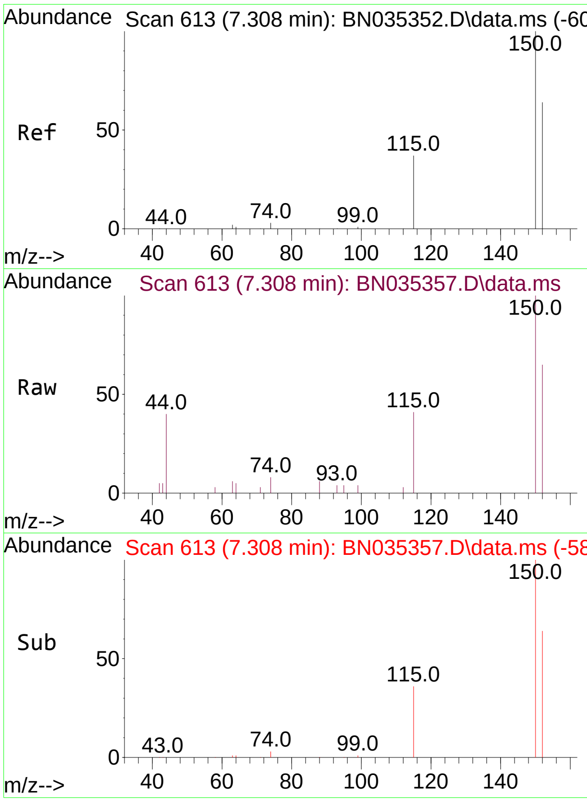
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

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

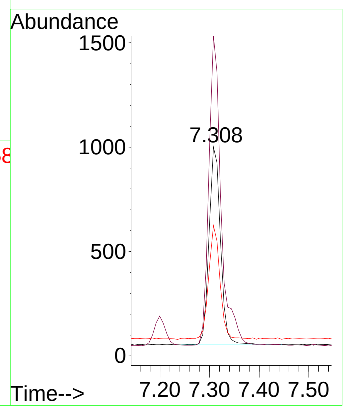




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

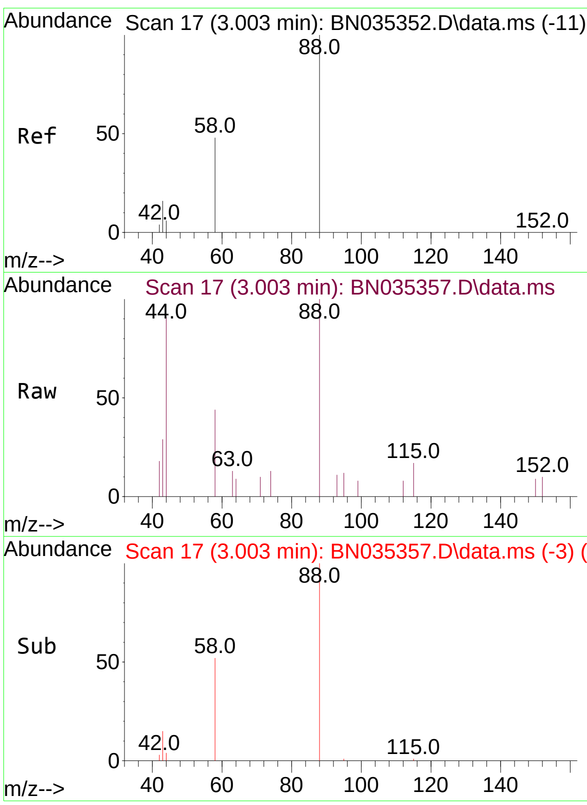
Tgt Ion:152 Resp: 154

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

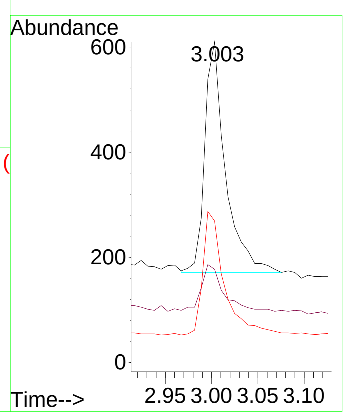
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

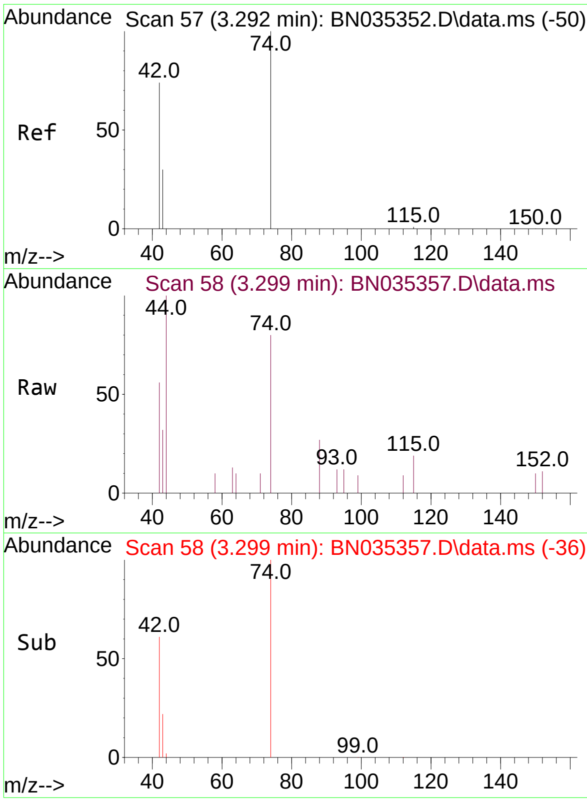


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

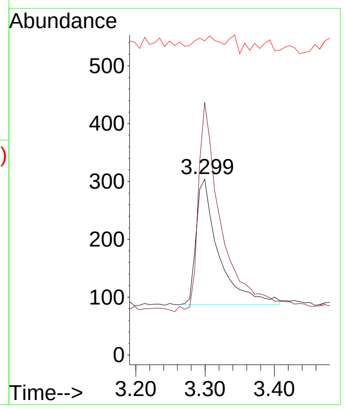
Tgt Ion: 42 Resp: 49

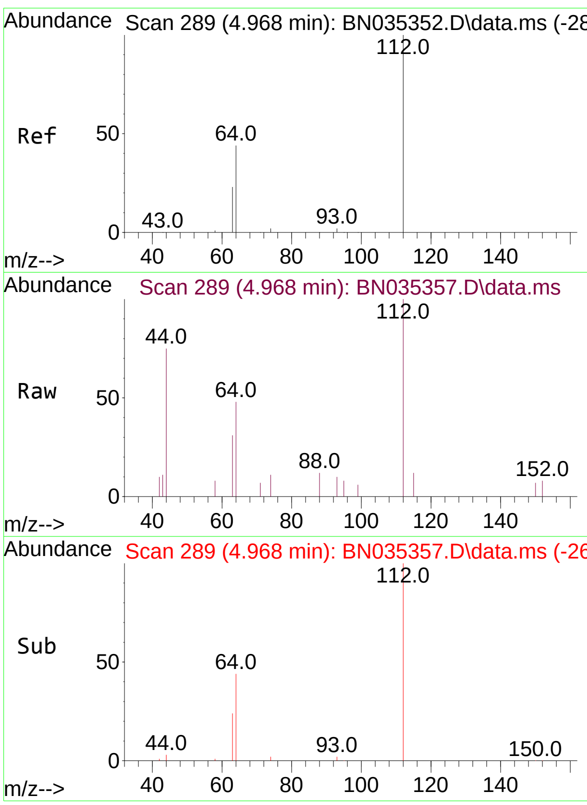
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

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

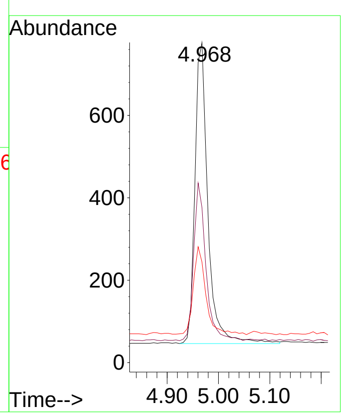




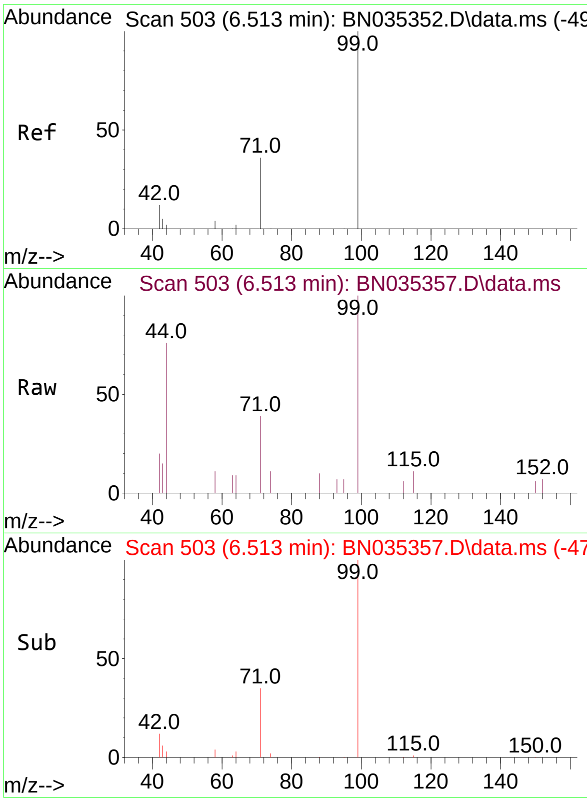
#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



ICAL Form



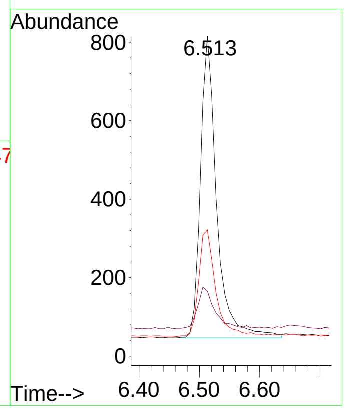
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

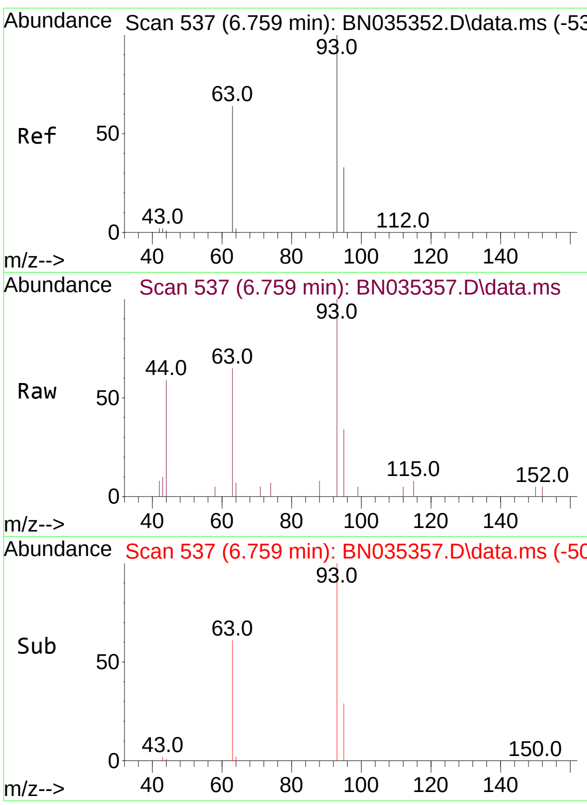
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 143

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

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

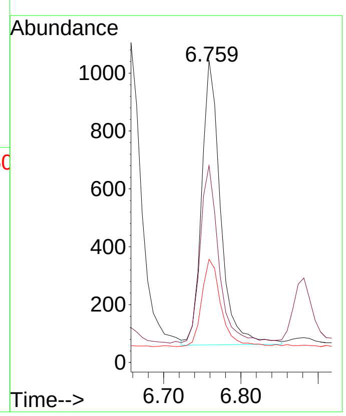




#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

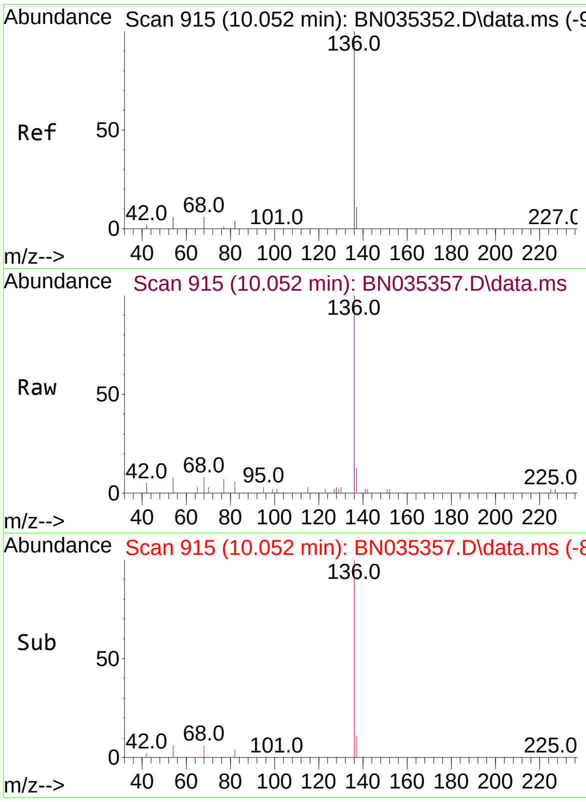
Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

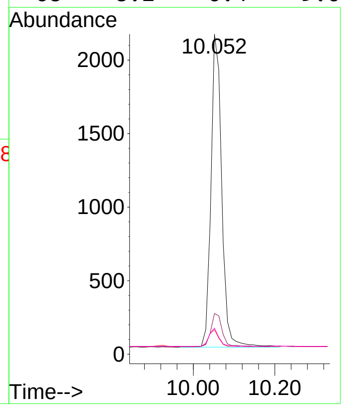
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

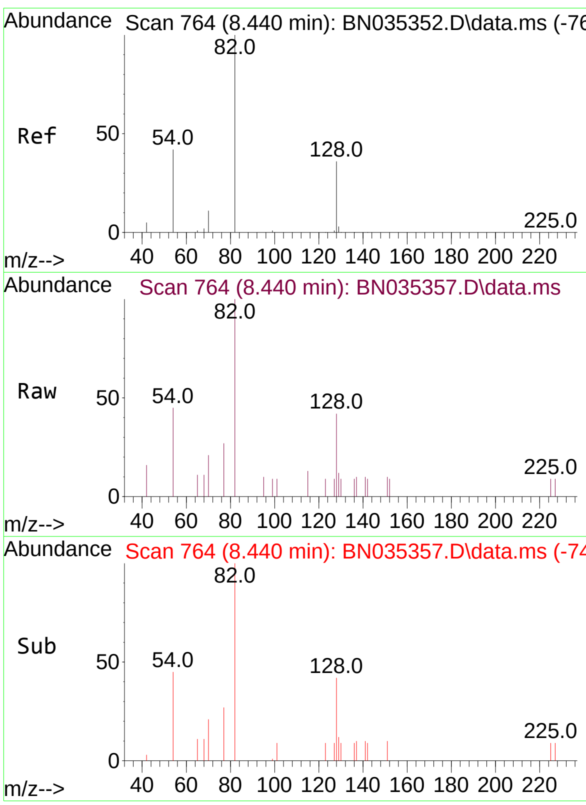


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

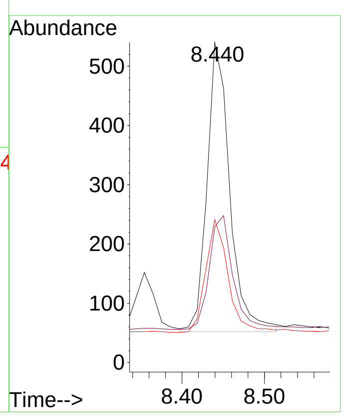




#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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Instrument :
BNA_N
ClientSampleId :
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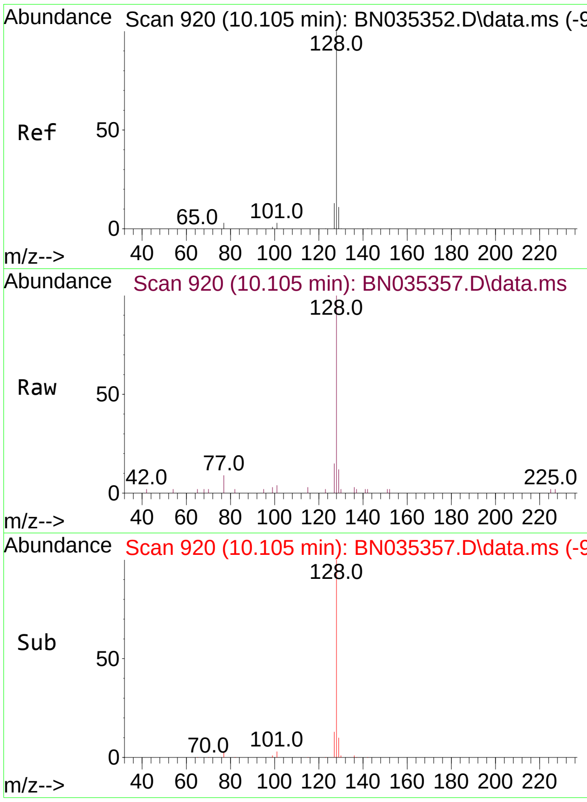
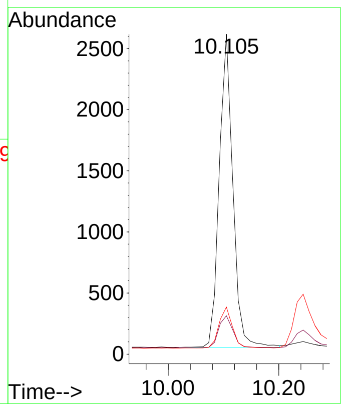
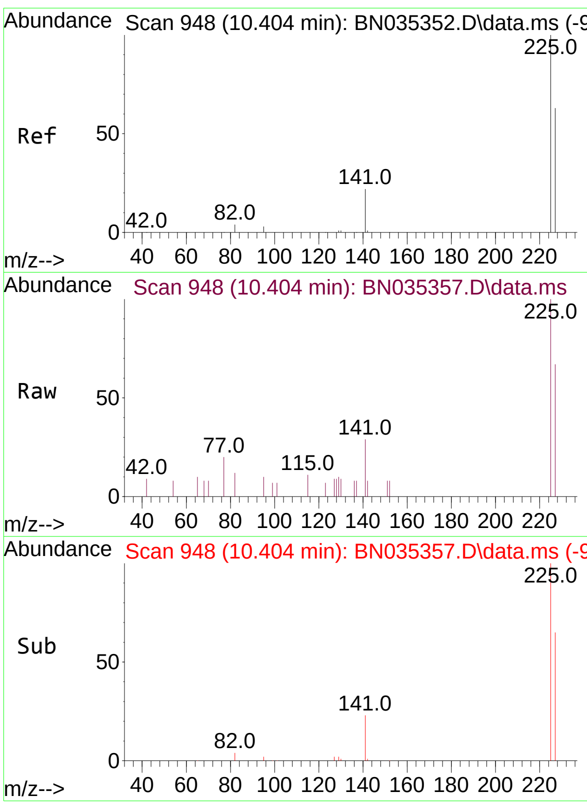


#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

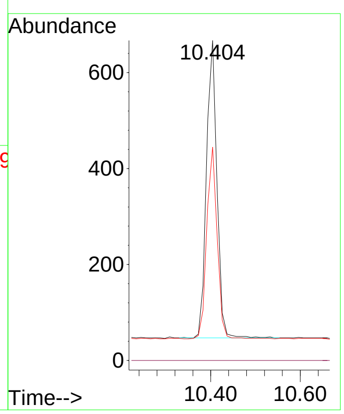




#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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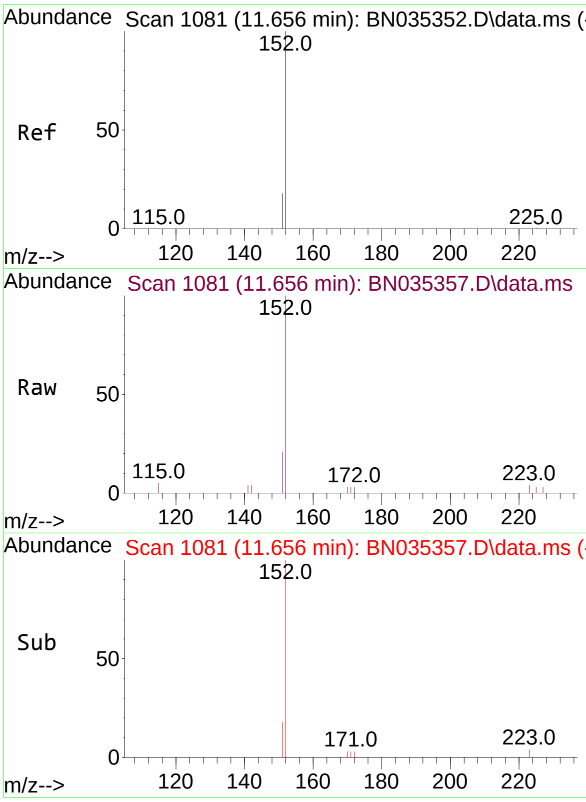

#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 256

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
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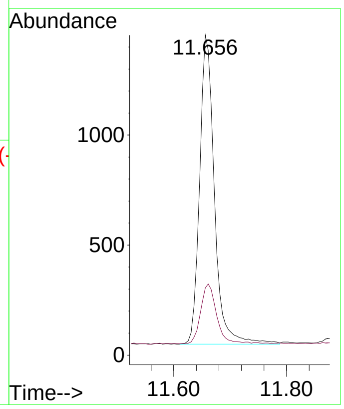
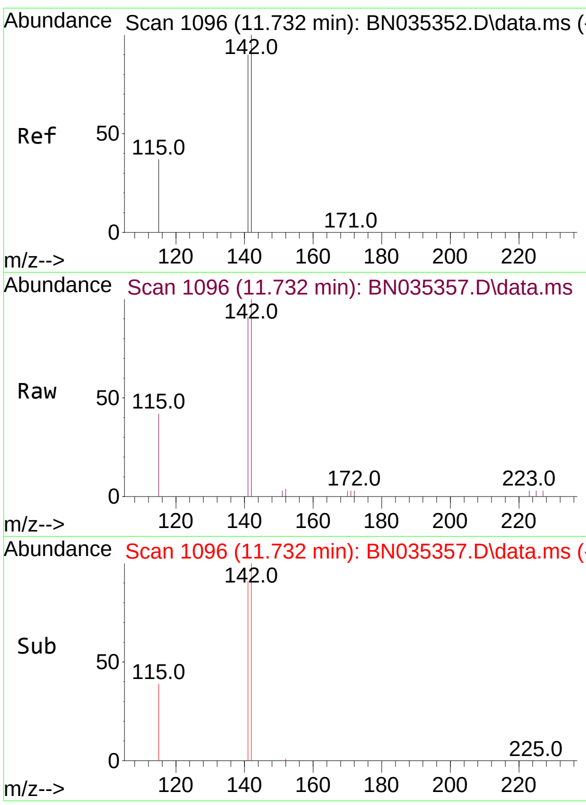
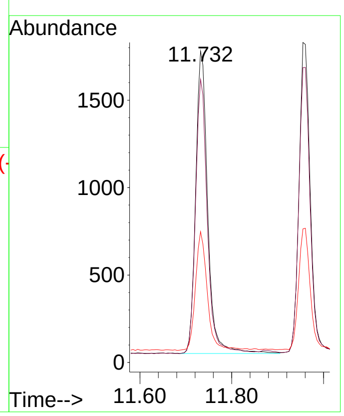




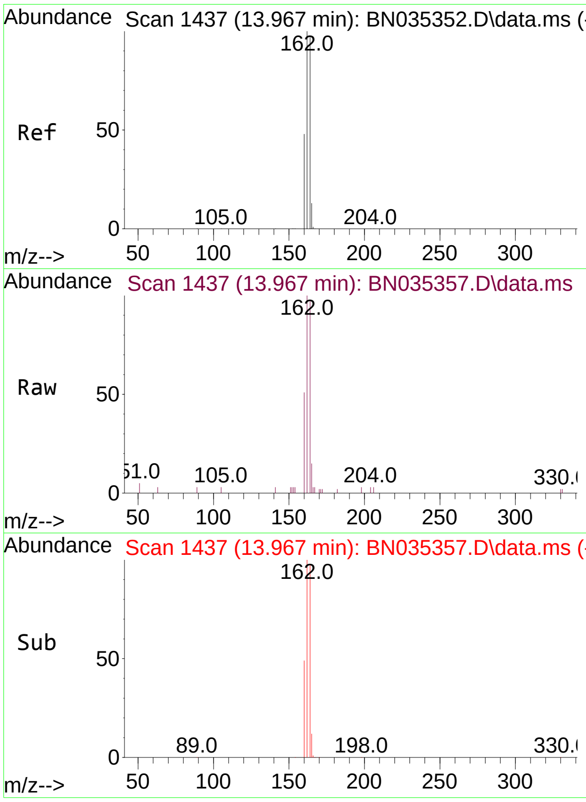
#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



ICAL Form



#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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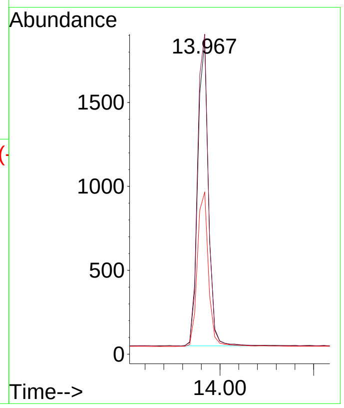
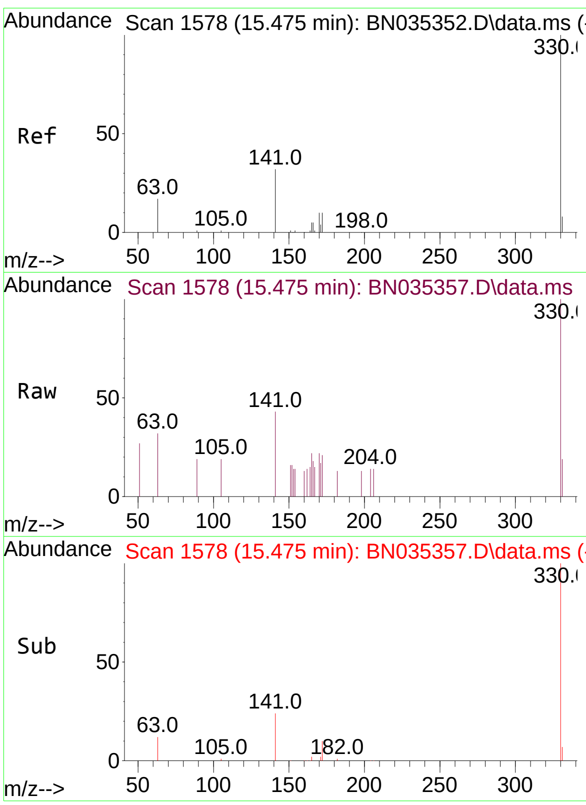
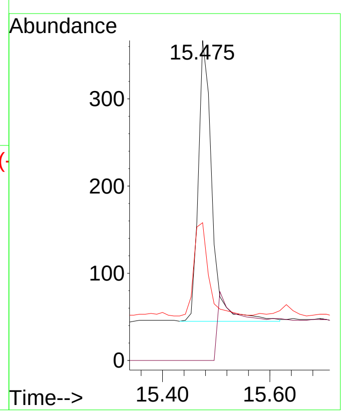




#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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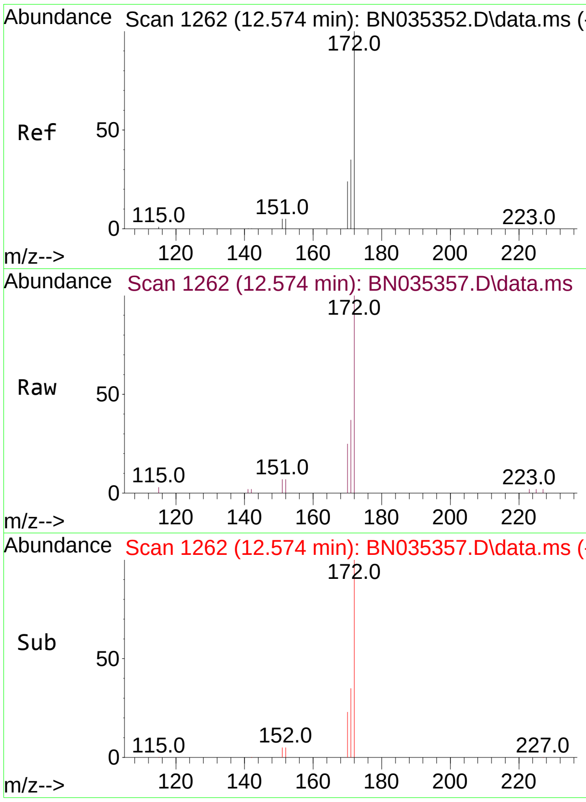

#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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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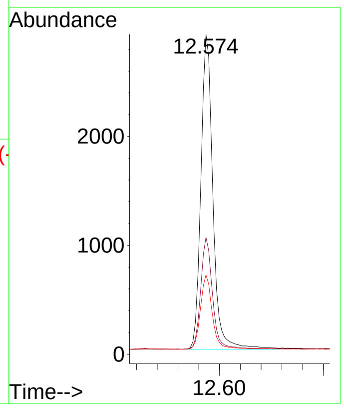
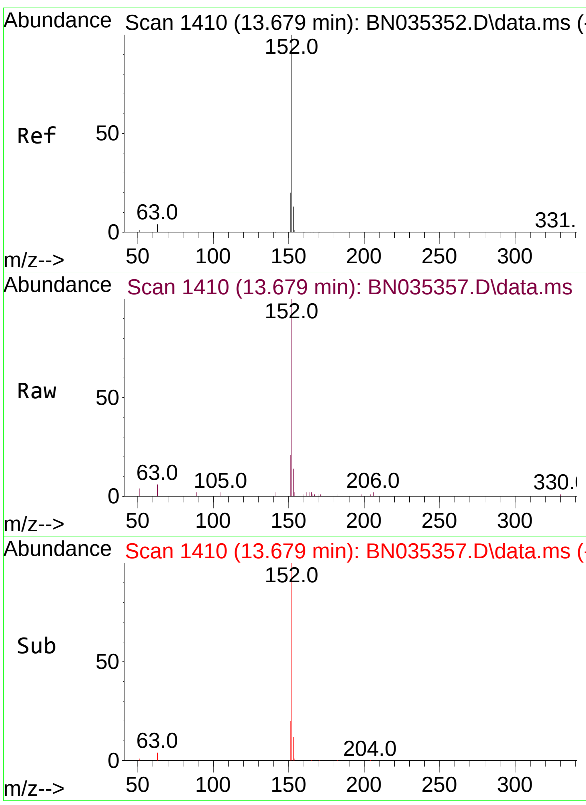
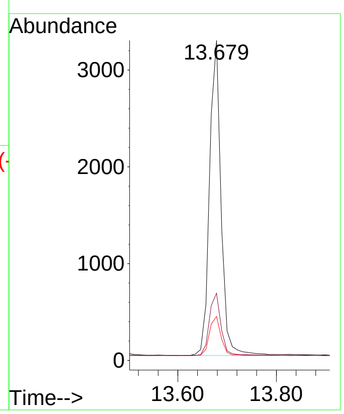




#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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Instrument :
BNA_N
ClientSampleId :
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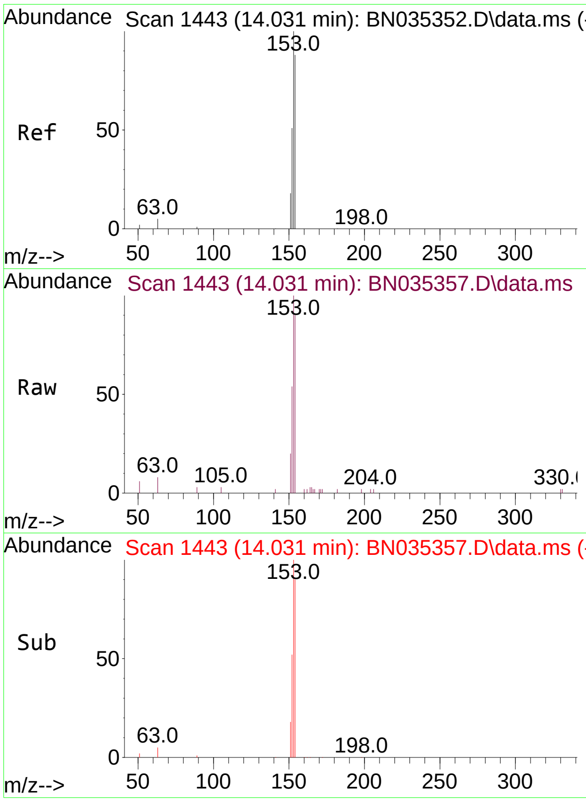
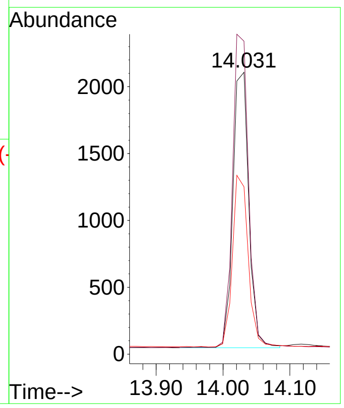
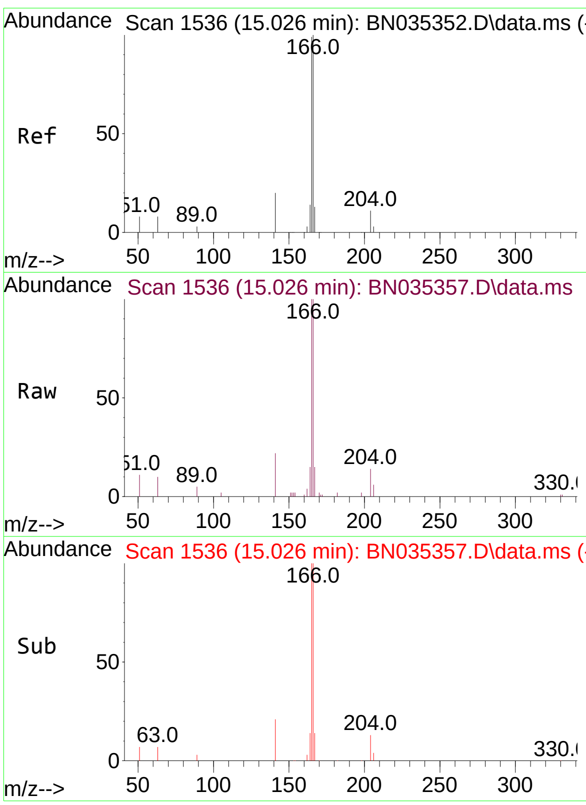


#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

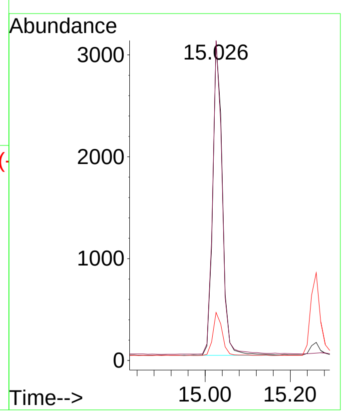




#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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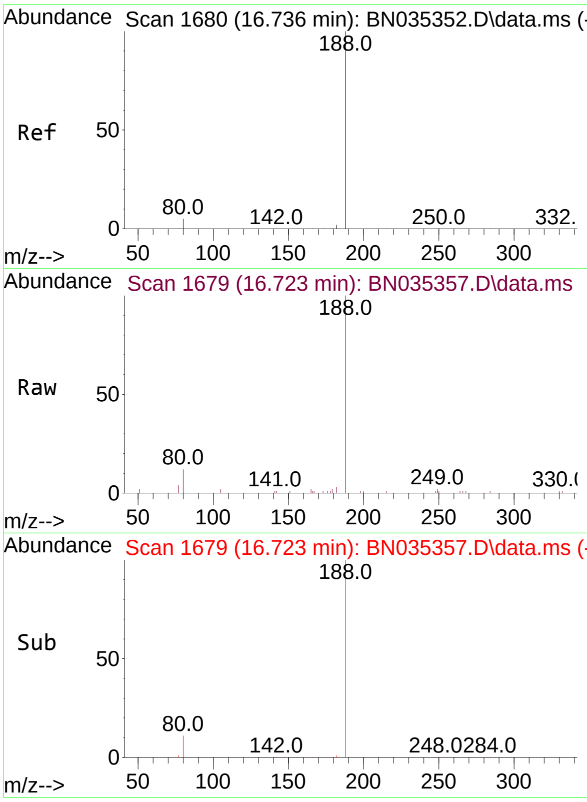

#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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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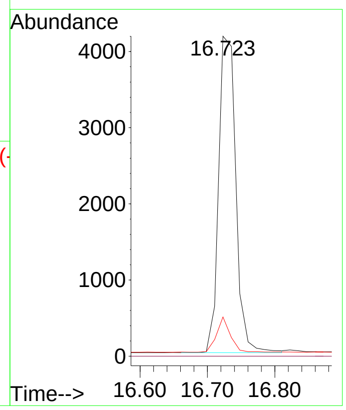
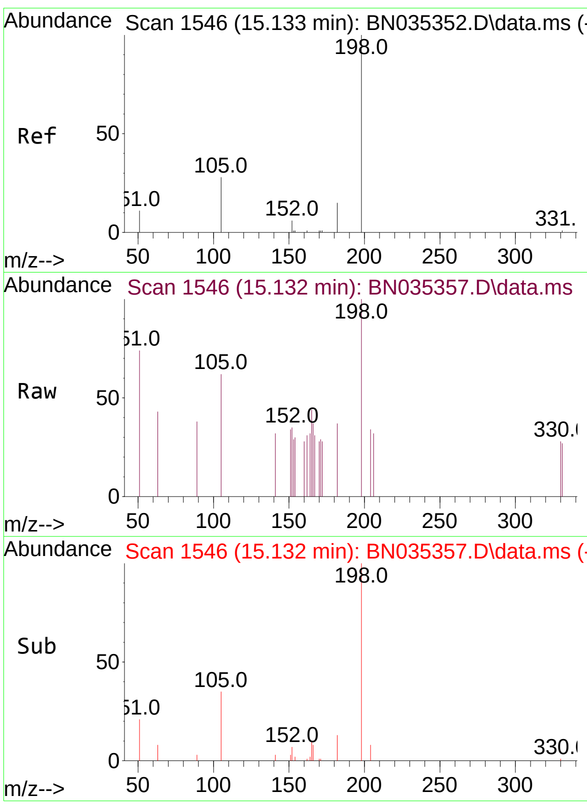
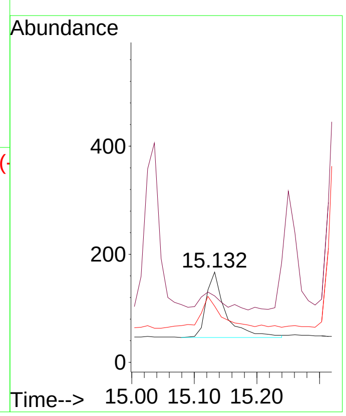


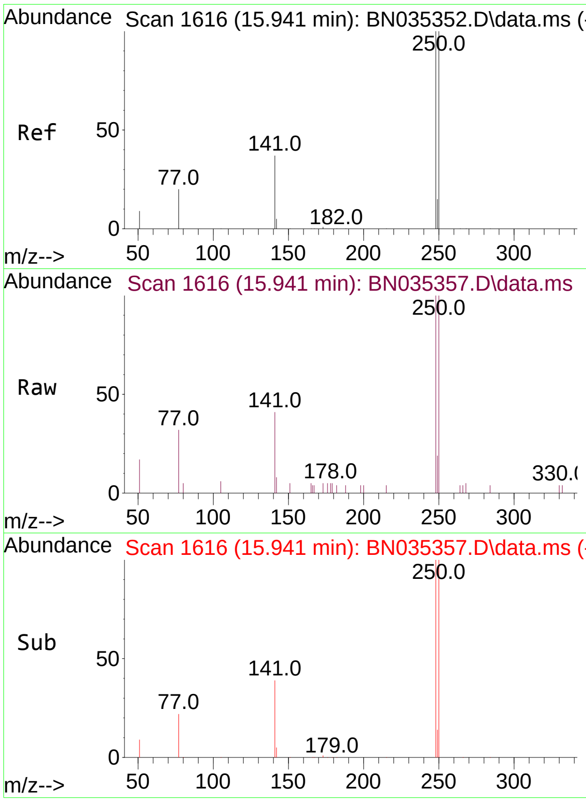


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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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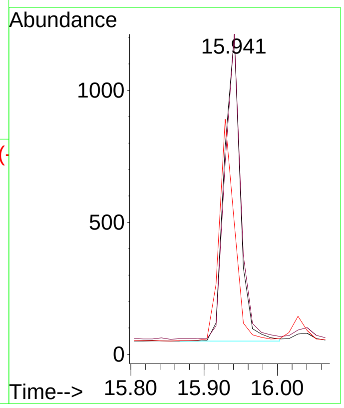
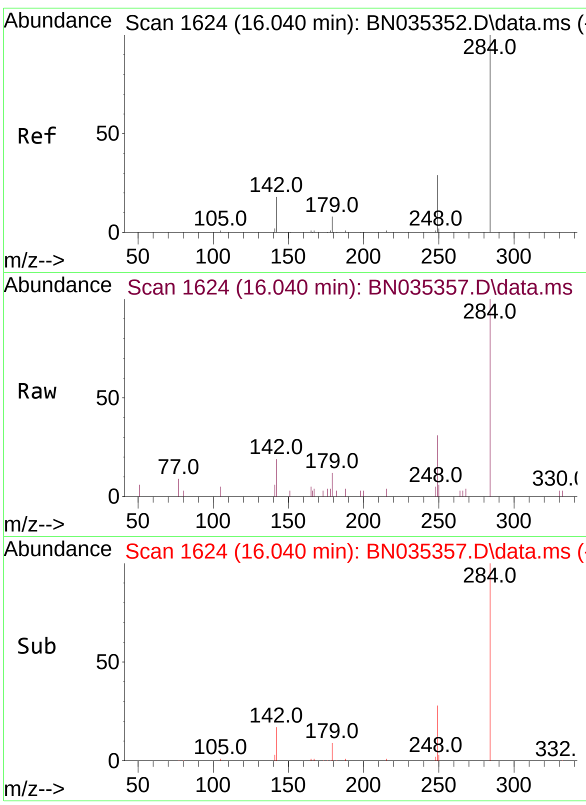
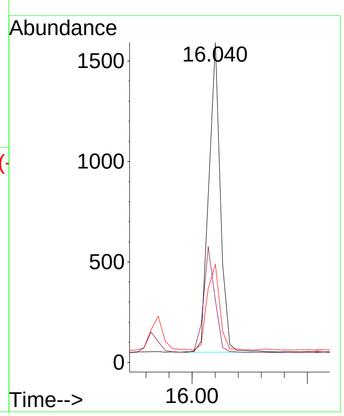




#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min   Scan# 1624
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024   20:21

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



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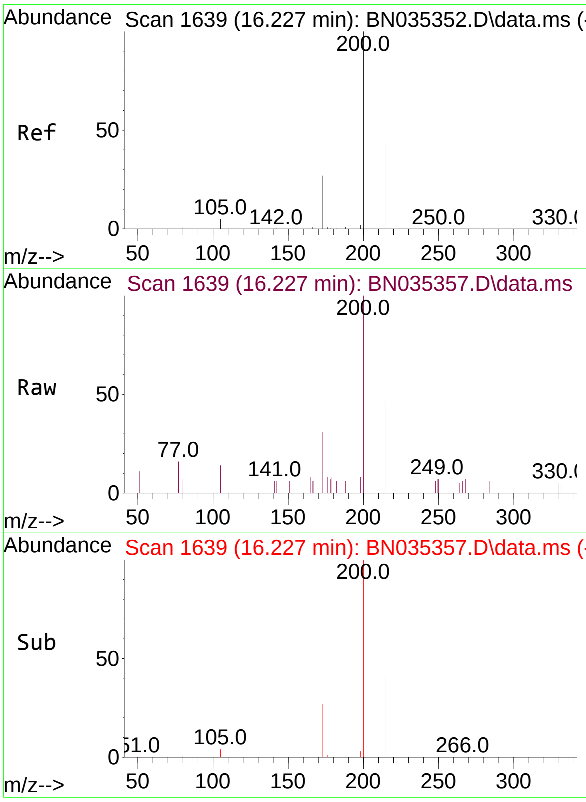

#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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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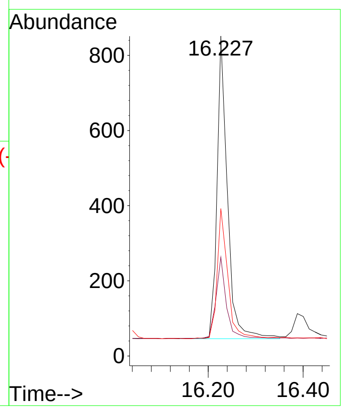
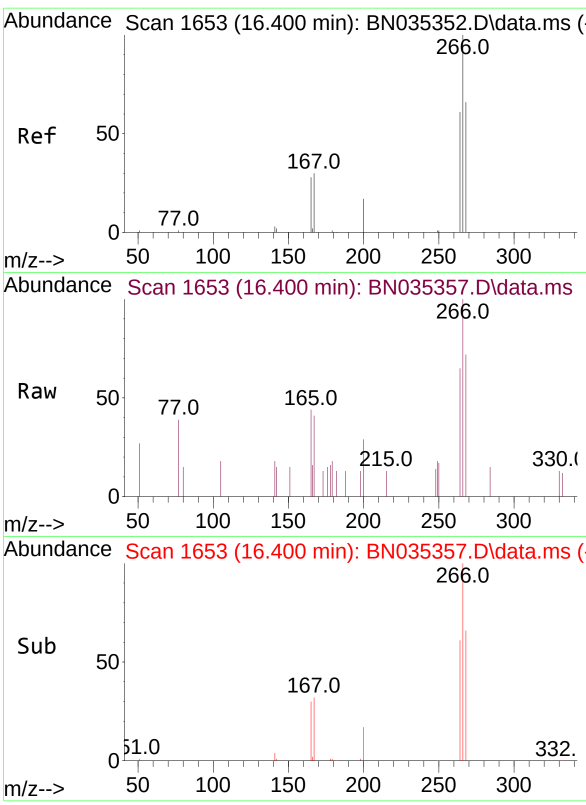
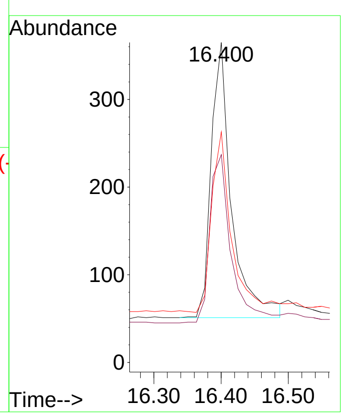


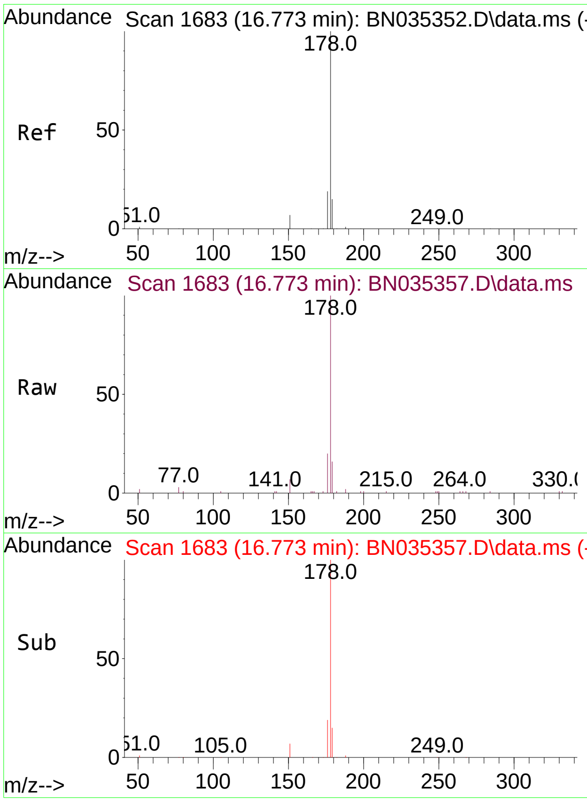


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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#

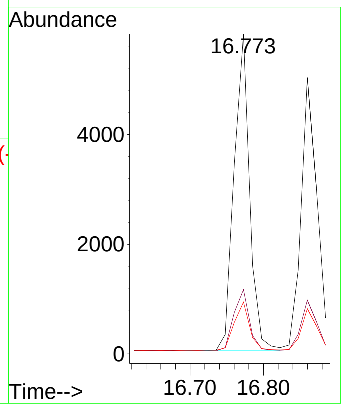




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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 :
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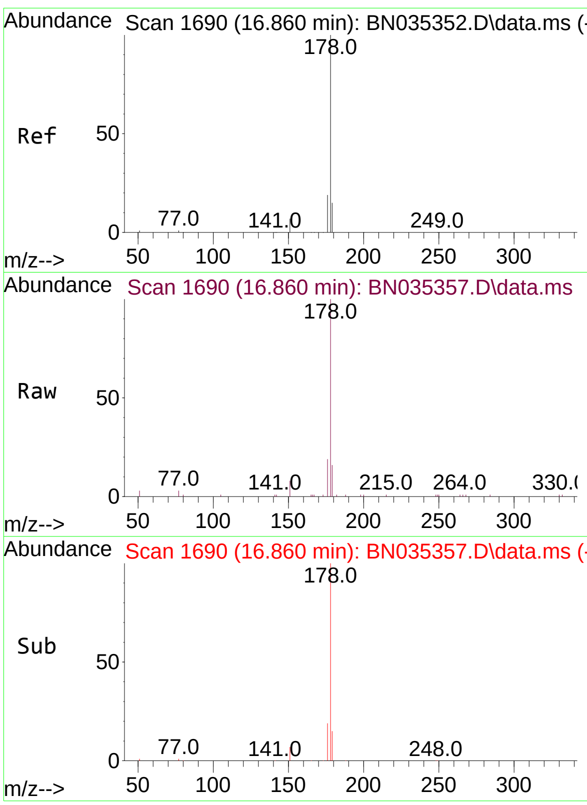
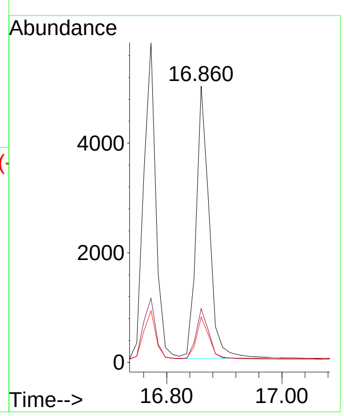


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



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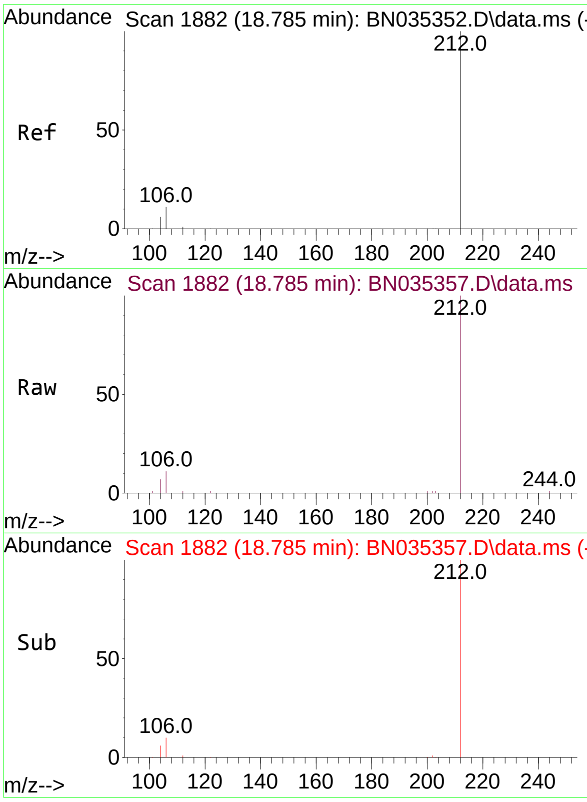

#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 841

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

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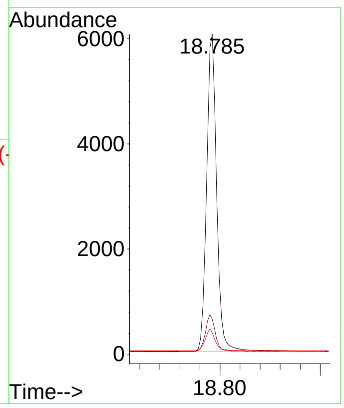
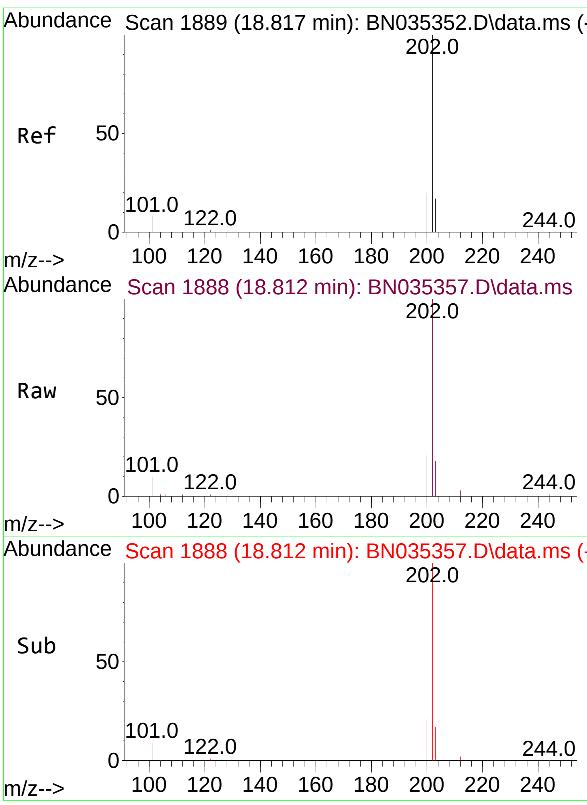
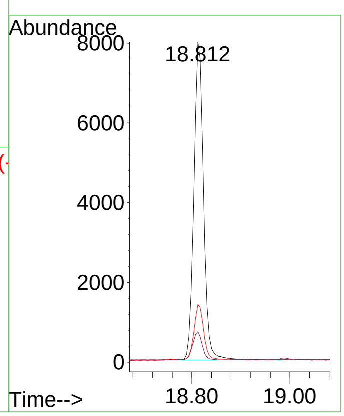


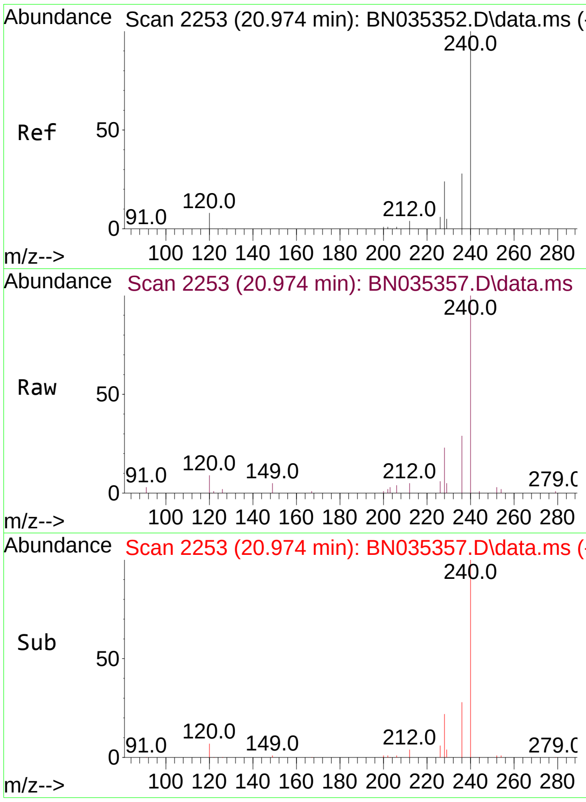


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

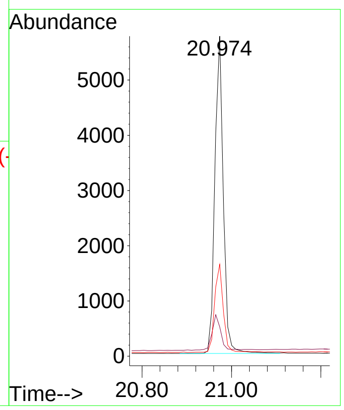
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

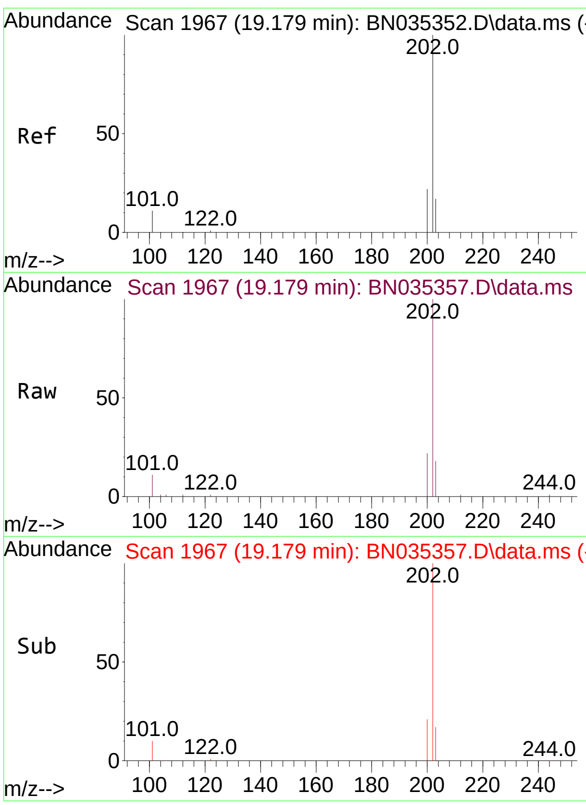
Tgt Ion:240 Resp: 757

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

Manual Integrations APPROVED

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

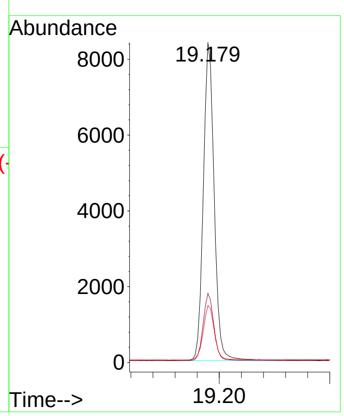




#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

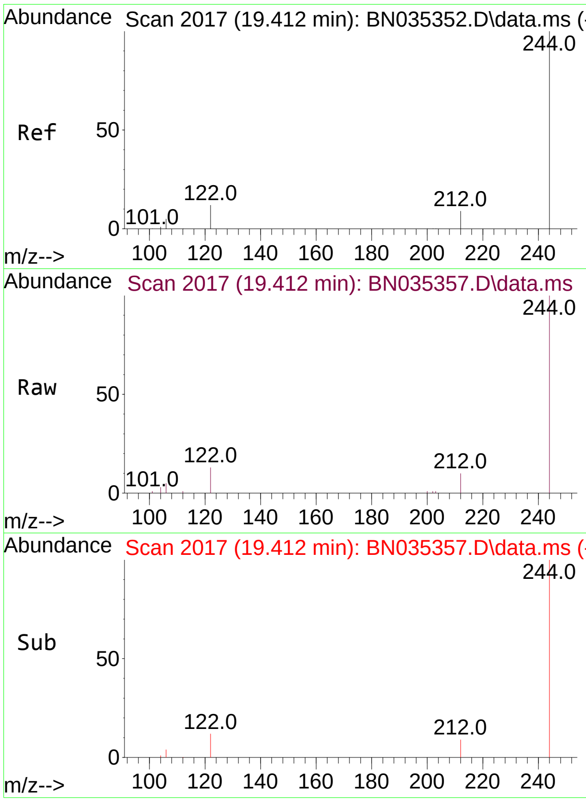
Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

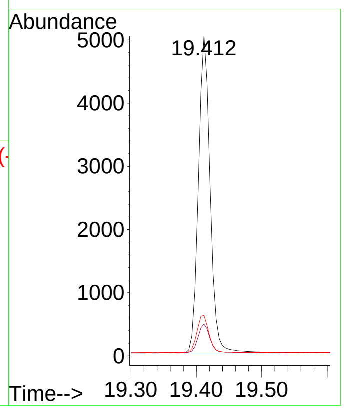
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

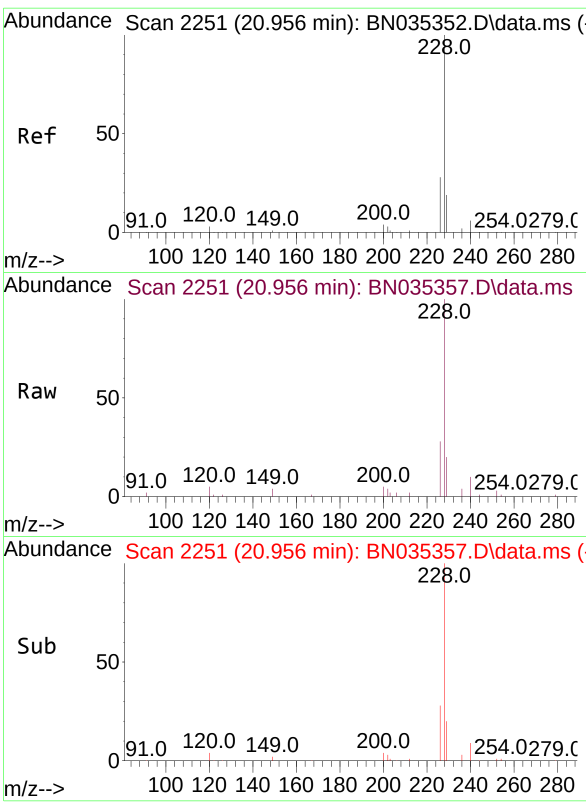


#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

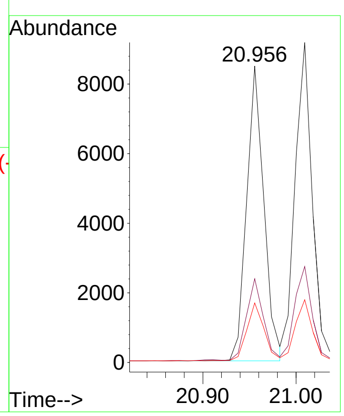




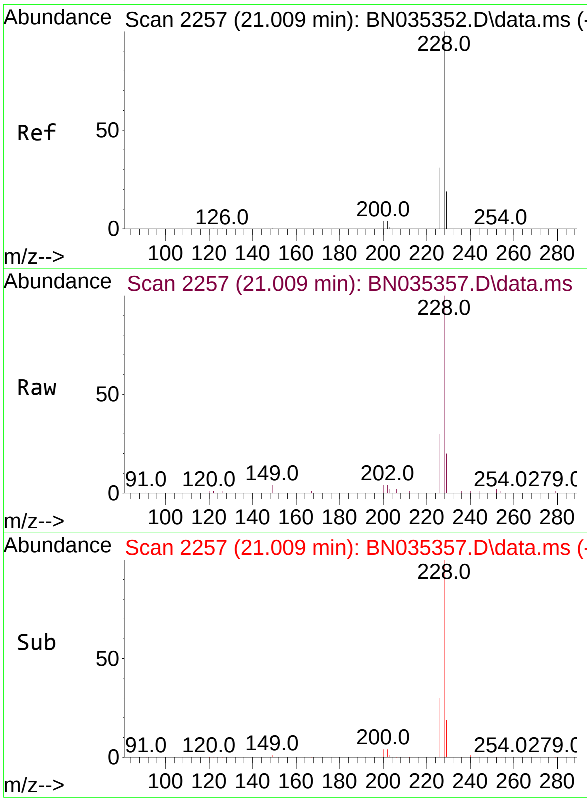
#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



ICAL Form



#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

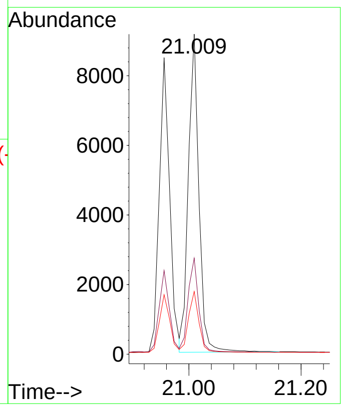
Tgt Ion:228 Resp: 1192

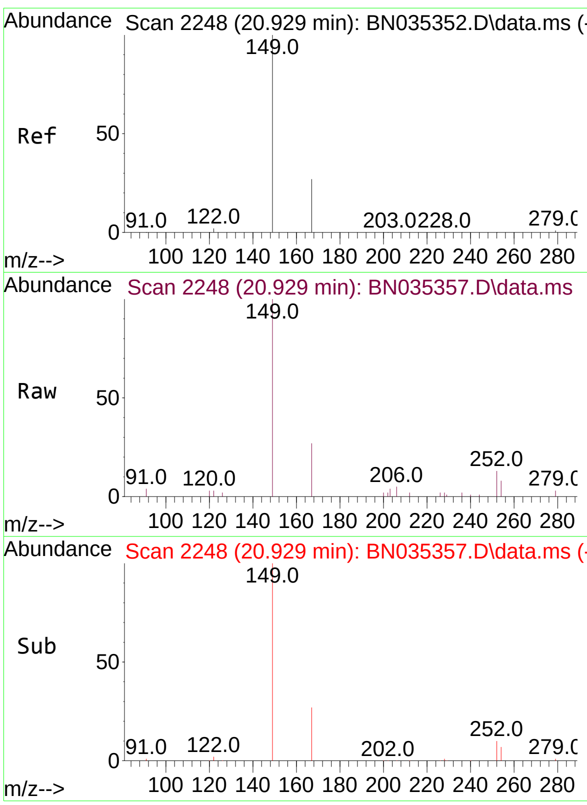
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

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

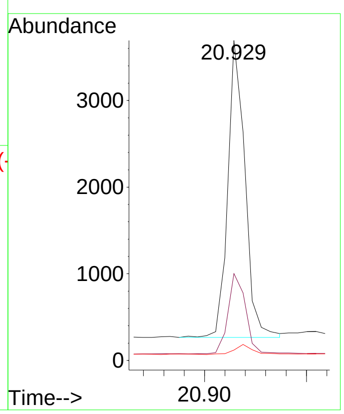


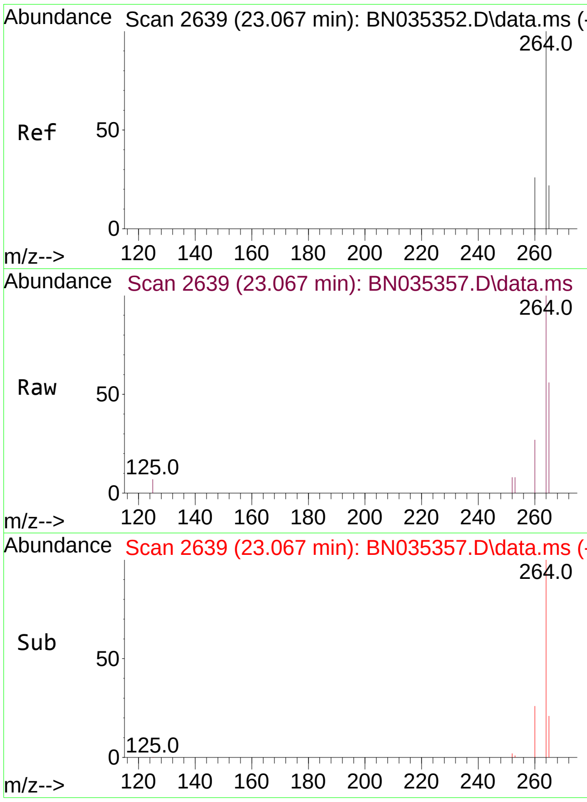


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

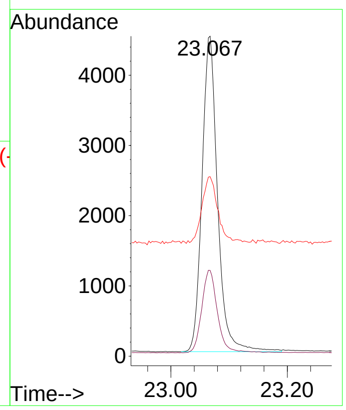




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

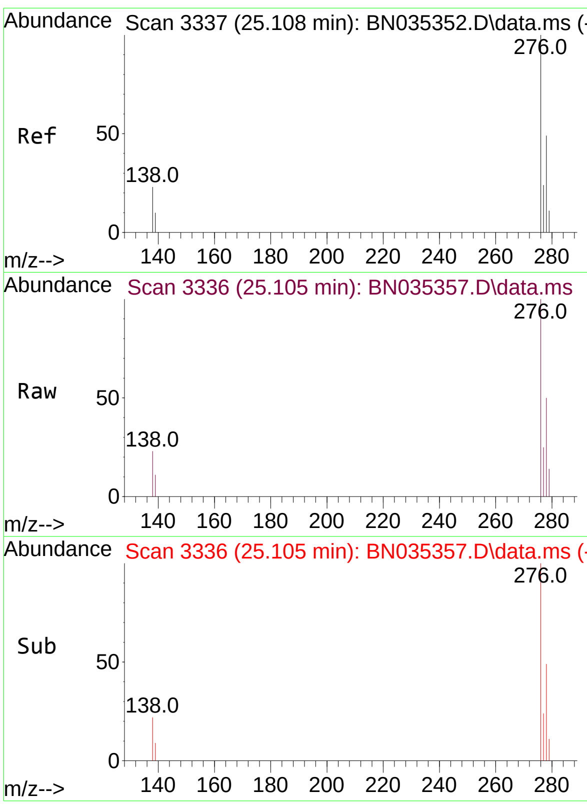
Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

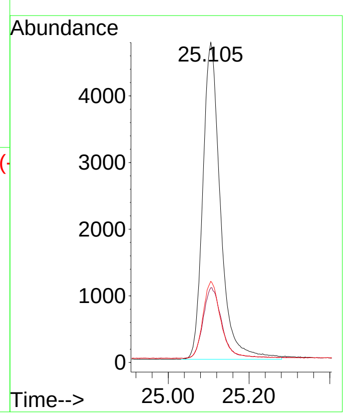
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

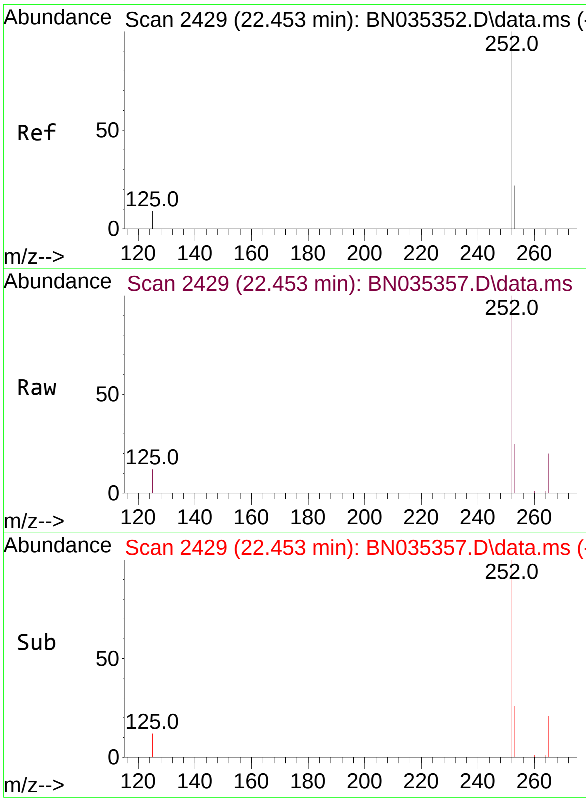


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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





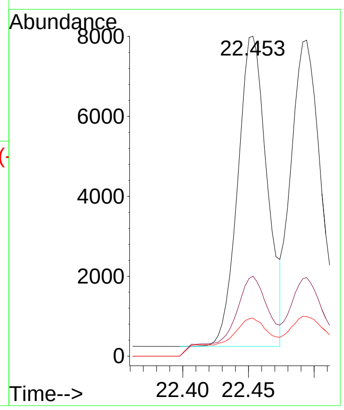
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

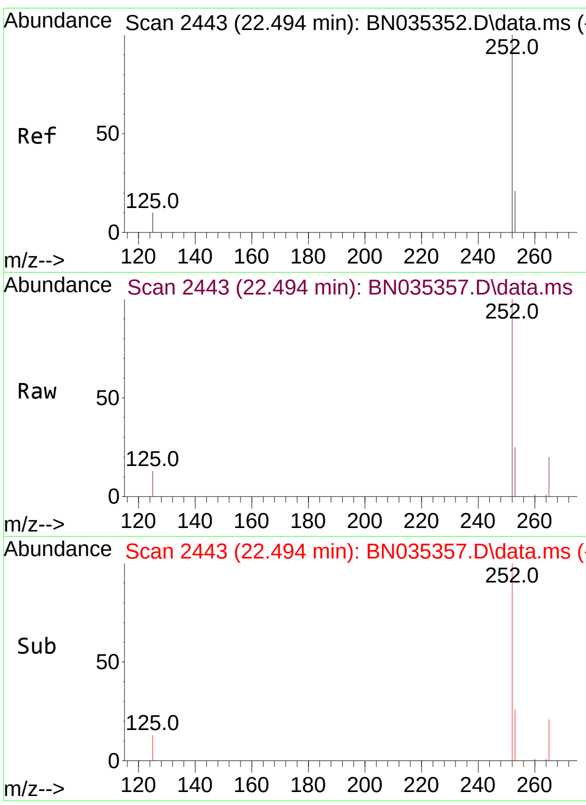
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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

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

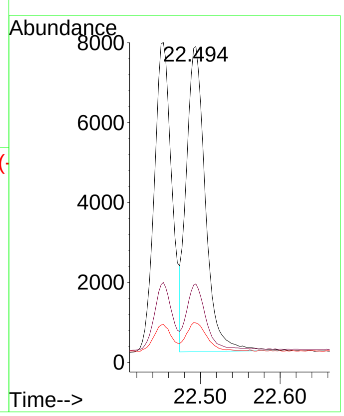


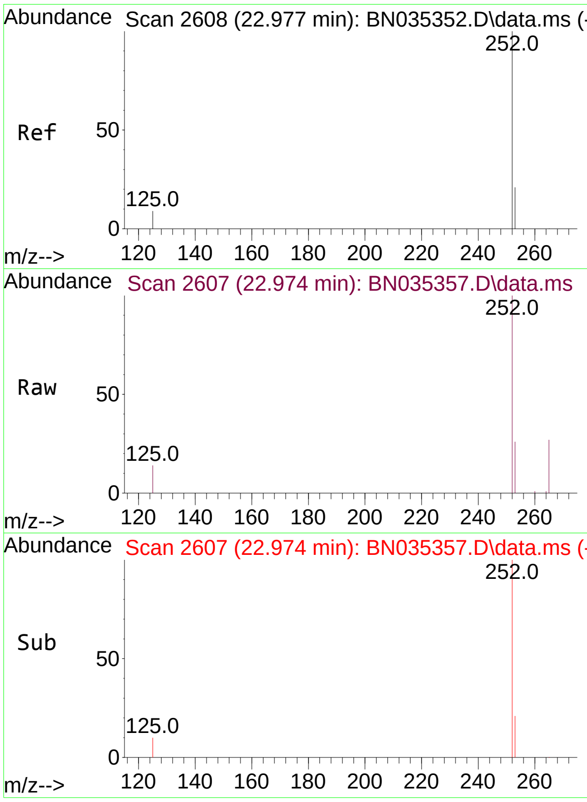


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

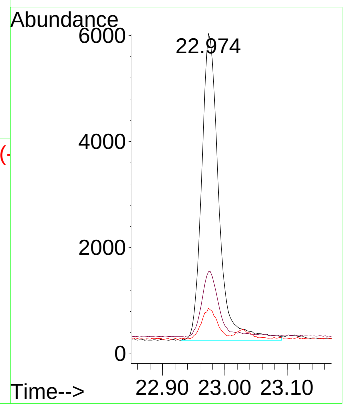
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

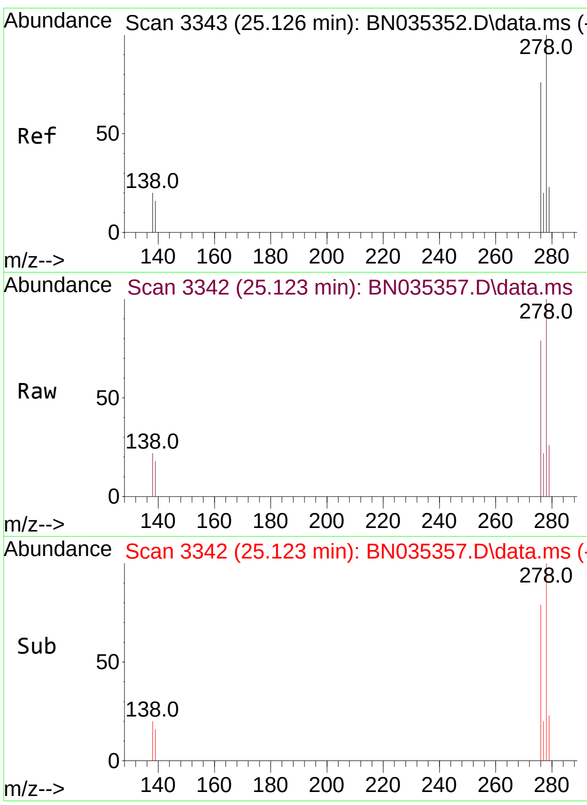
Manual Integrations APPROVED

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

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

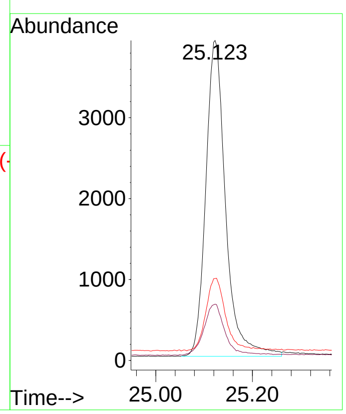




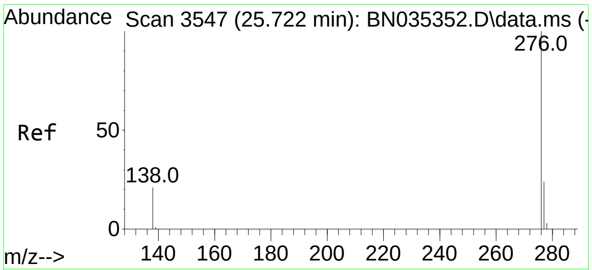
#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

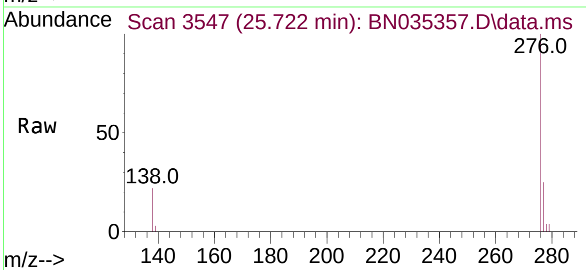
Tgt Ion:278 Resp: 11141

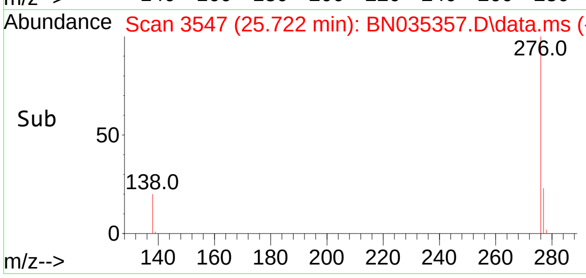
Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



ICAL Form



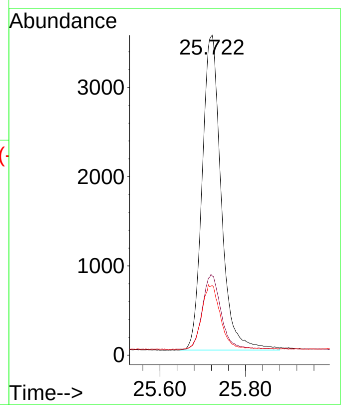




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 08:59

Lab File ID: BN035811.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	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.541		-13.6	20.0
Fluoranthene-d10	1.134	0.953		-16.0	20.0
2-Fluorophenol	1.001	0.931		-7.0	20.0
Phenol-d6	1.204	1.289		7.1	20.0
Nitrobenzene-d5	0.244	0.285		16.8	20.0
2-Fluorobiphenyl	1.512	1.523		0.7	20.0
2,4,6-Tribromophenol	0.284	0.214		-24.6	20.0
Terphenyl-d14	0.789	0.804		1.9	20.0
1,4-Dioxane	0.382	0.457		19.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng	0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng	0.00
35) Perylene-d12	23.029	264	8879	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3699	0.372	ng	-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2707m	0.467	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng	-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng	0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng	98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	# 91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng	99
9) Naphthalene	10.052	128	9671	0.387	ng	99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	# 100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng	100
16) Acenaphthylene	13.636	152	8415	0.372	ng	100
17) Acenaphthene	13.978	154	5782	0.385	ng	99
18) Fluorene	14.993	166	7456	0.347	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	# 7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	# 93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng	97
23) Atrazine	16.202	200	1640	0.363	ng	96
24) Pentachlorophenol	16.363	266	1040	0.321	ng	87
25) Phenanthrene	16.735	178	10950	0.367	ng	99
26) Anthracene	16.835	178	9488	0.352	ng	100
28) Fluoranthene	18.780	202	13421	0.334	ng	99
30) Pyrene	19.151	202	13577	0.429	ng	100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng	99
33) Chrysene	20.982	228	13234	0.428	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng	100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng	99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	# 95
38) Benzo(k)fluoranthene	22.459	252	13236m	0.414	ng	
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	# 91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng	94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng	99

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

Quantitation Report (QT Reviewed)

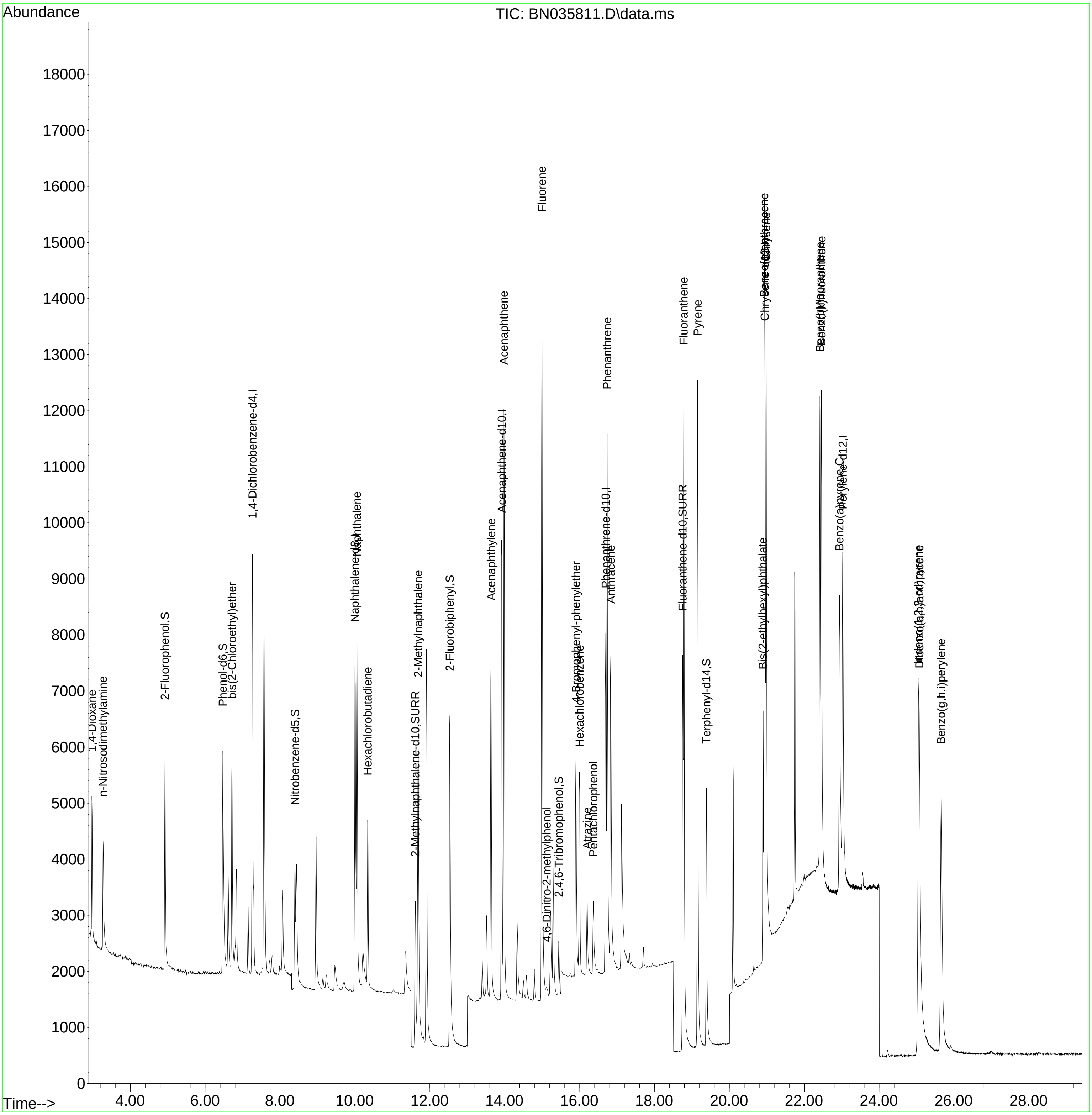
Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 12/25/2024
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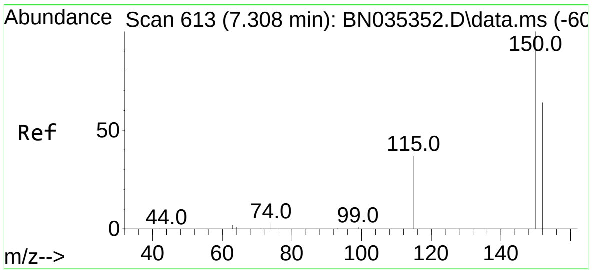
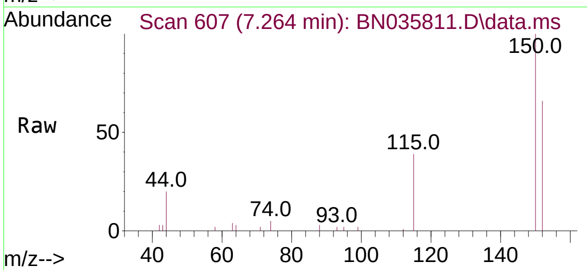
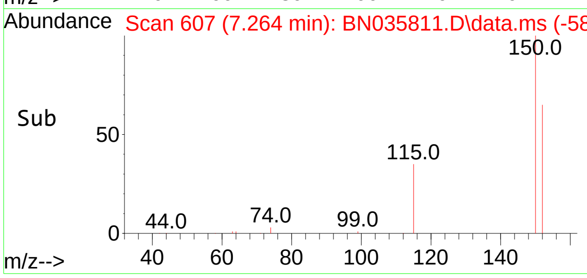


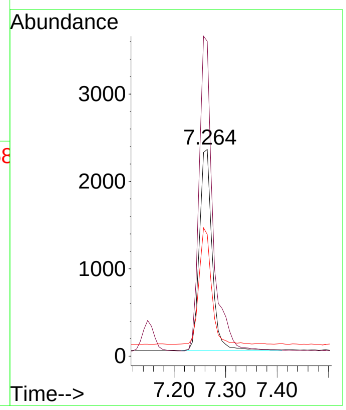


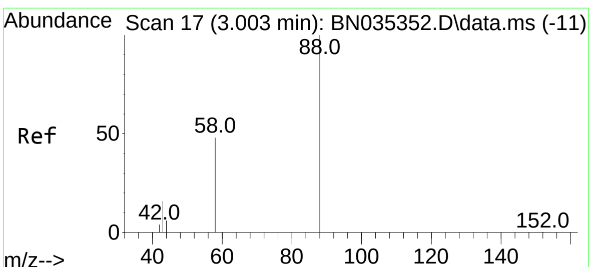


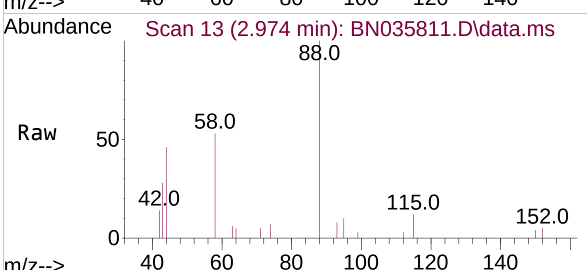
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

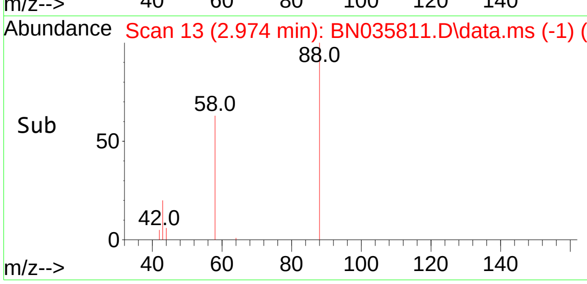
Tgt Ion:152 Resp: 397

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4





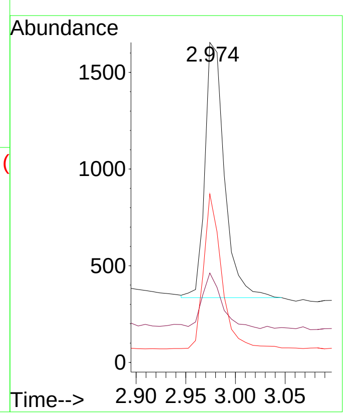


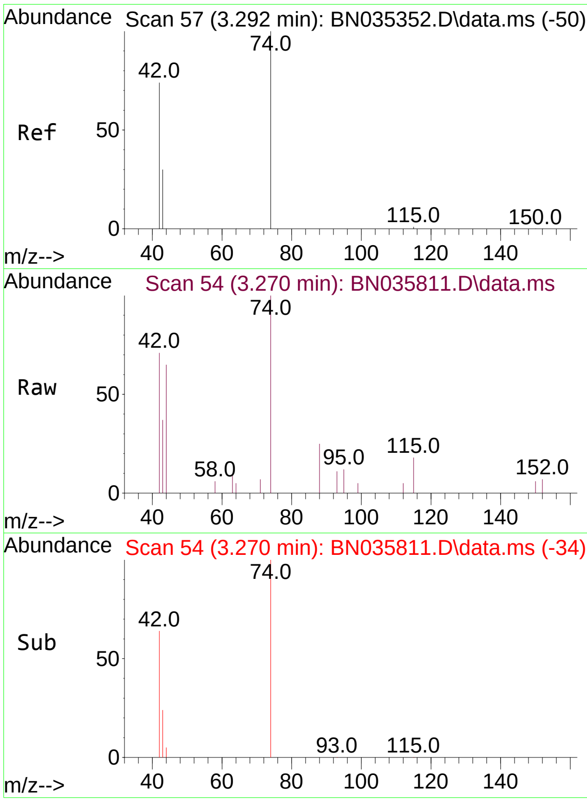


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7





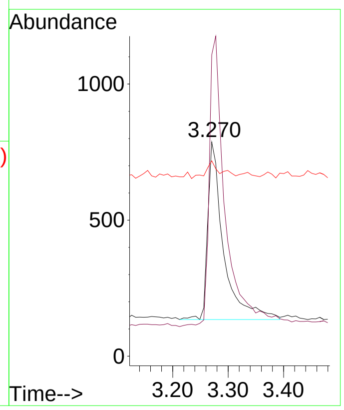
#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

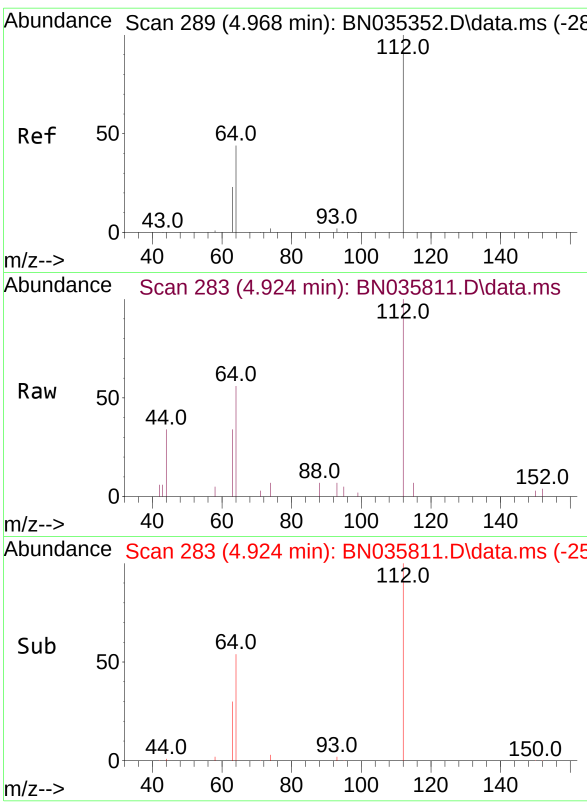
Tgt Ion: 42 Resp: 130

Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

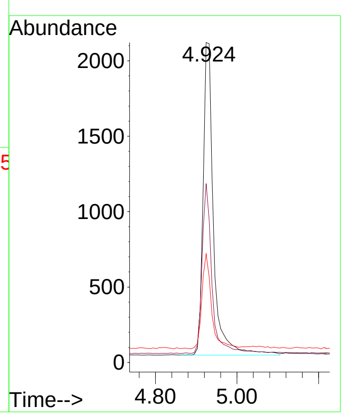


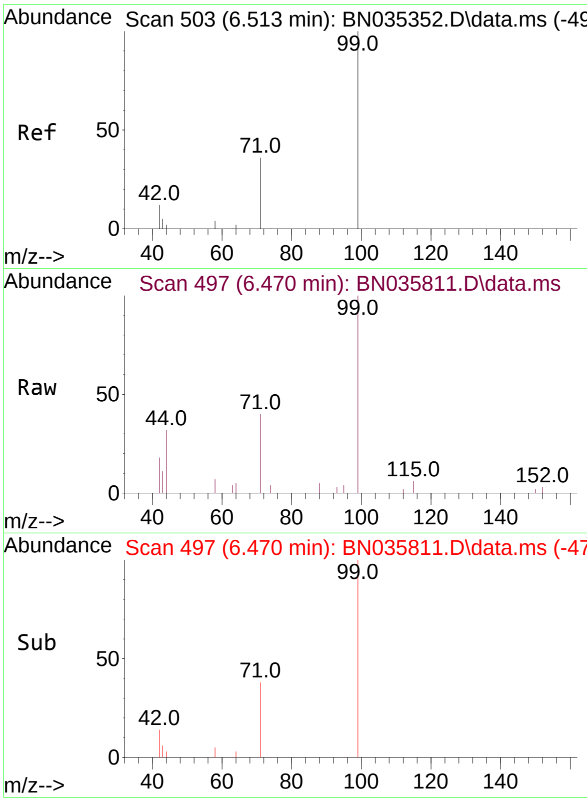


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

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

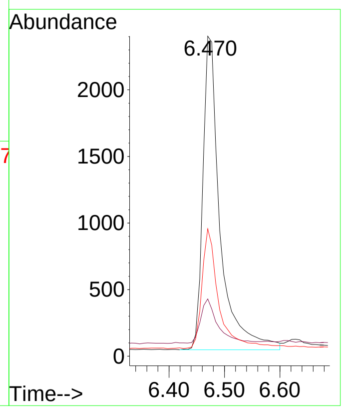




#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

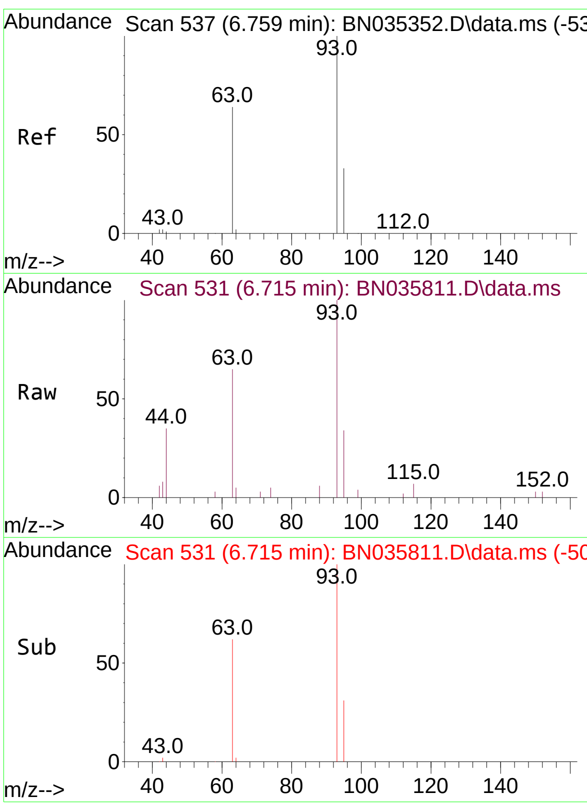
Tgt Ion: 99 Resp: 5118

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

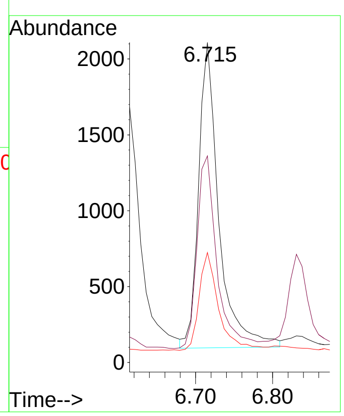
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5

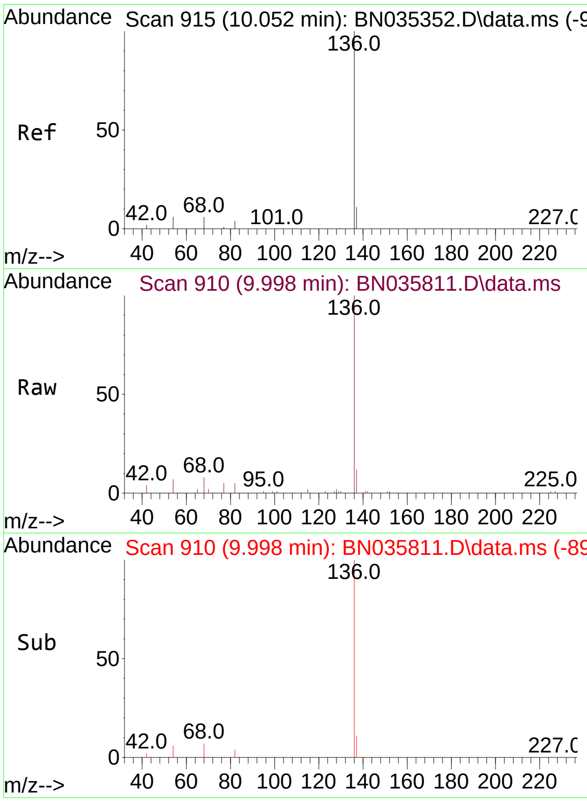


Sample Results: **BN035811.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

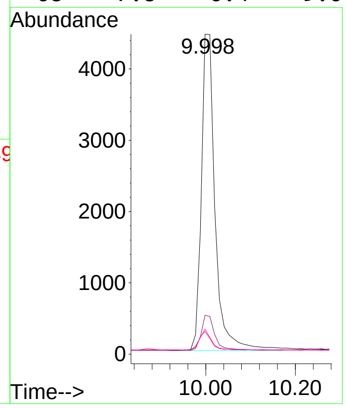
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

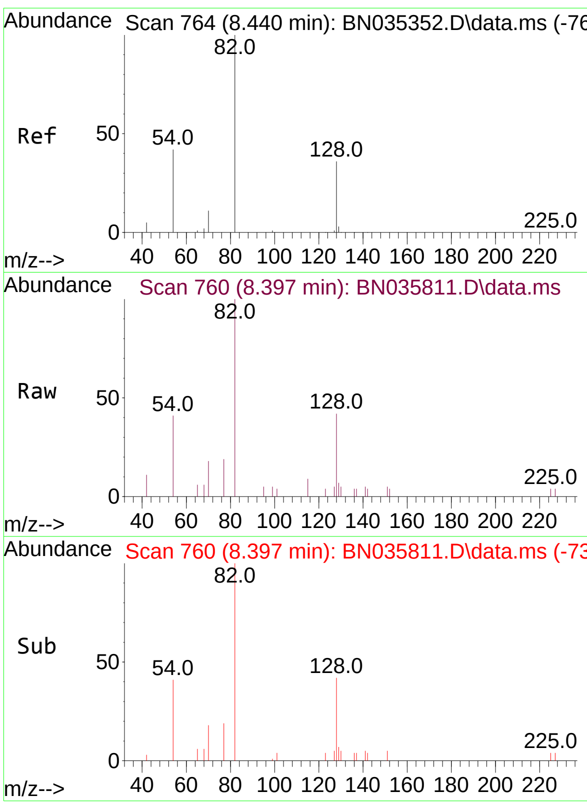


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:136 Resp: 948

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6

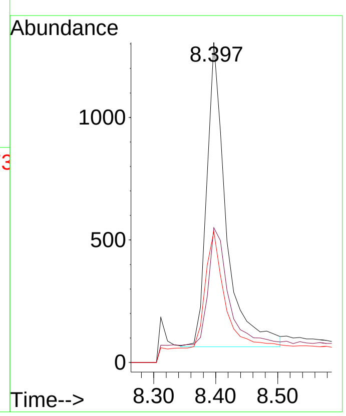




#8
Nitrobenzene-d5
Concen: 0.467 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 2707

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
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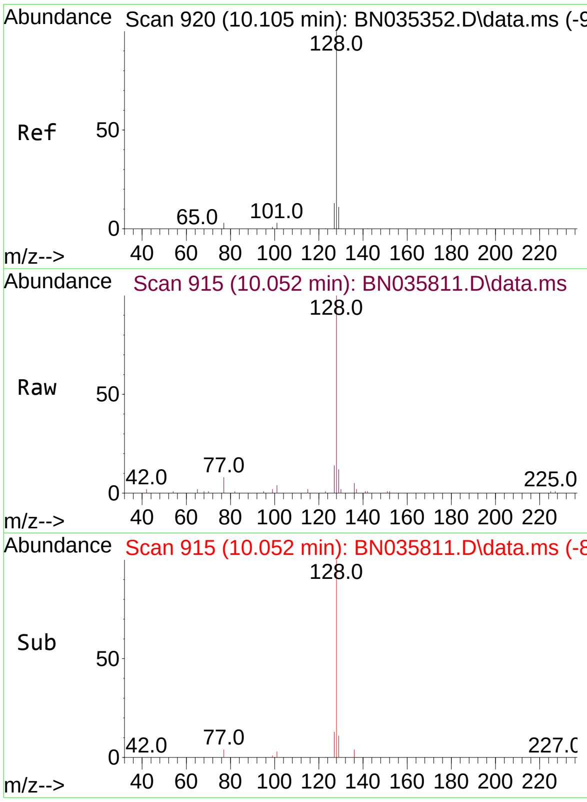
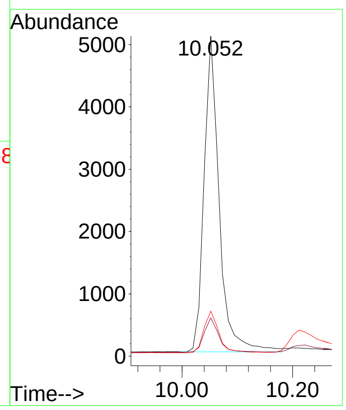
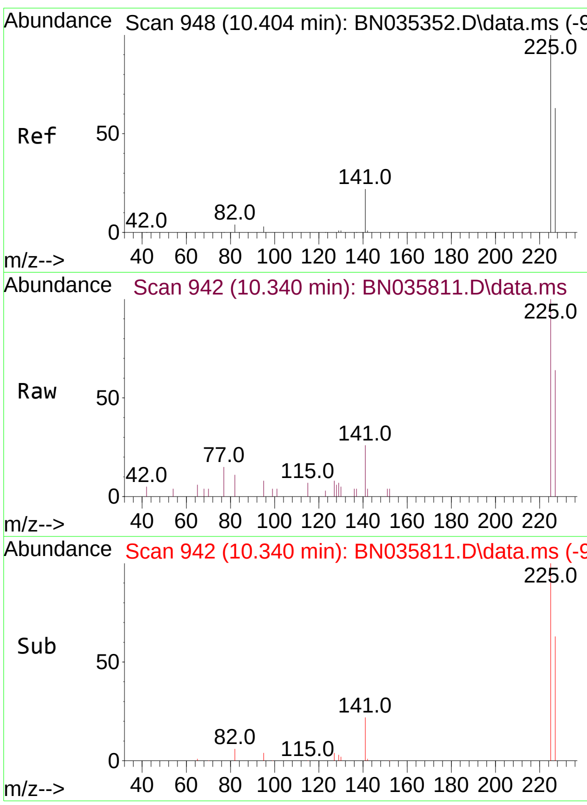


#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:128 Resp: 967

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2

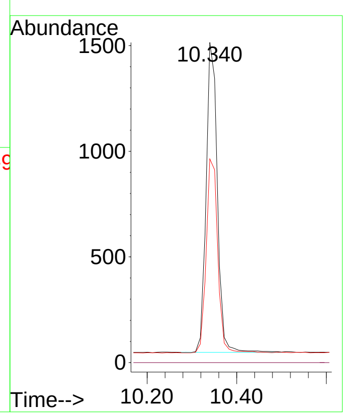


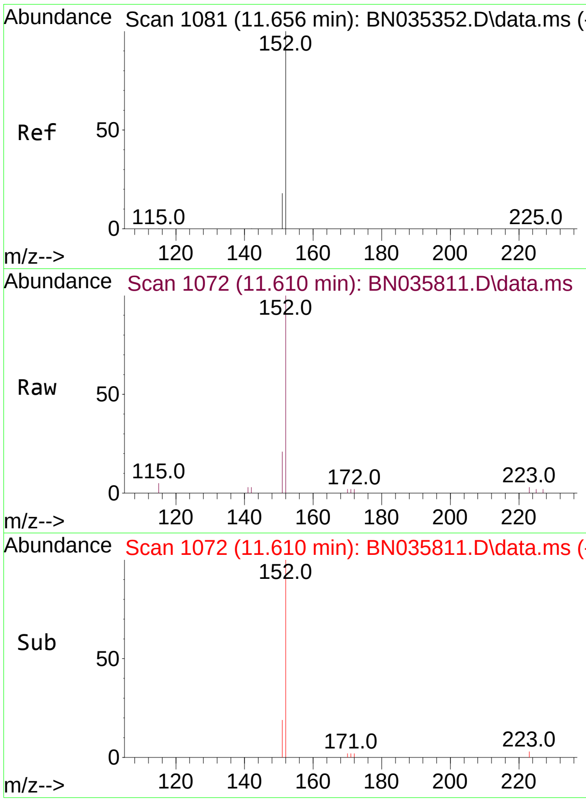


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

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: 0.346 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 512

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED
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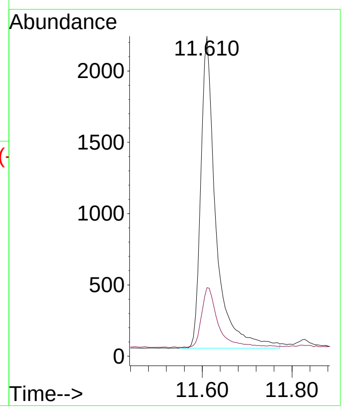
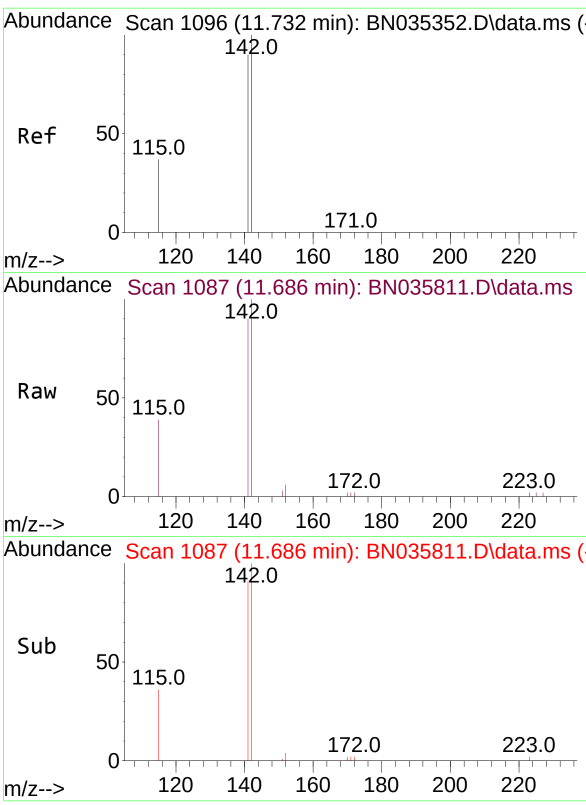
Supervised By :mohammad ahmed 12/26/2024

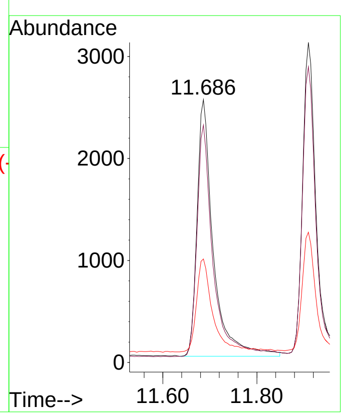


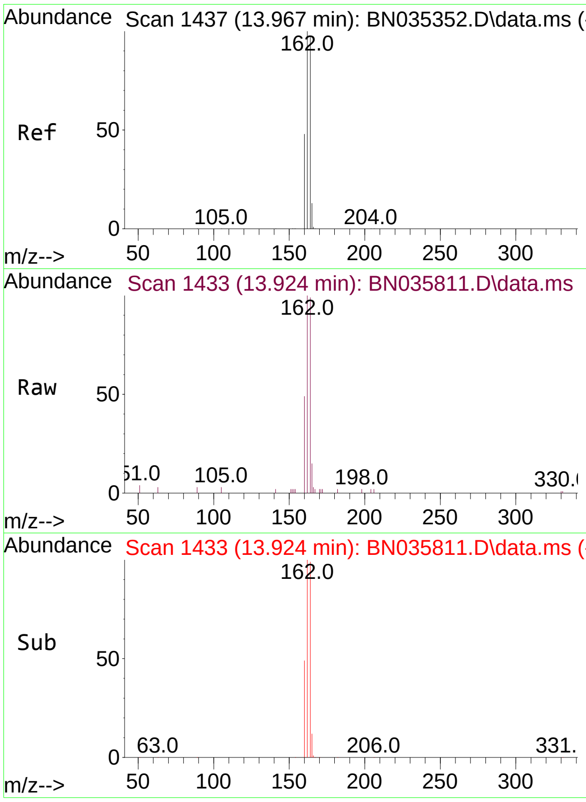


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min   Scan# 14
Delta R.T.   -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024   08:59

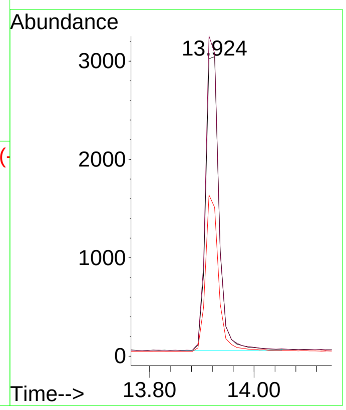
Tgt Ion:164 Resp: 538

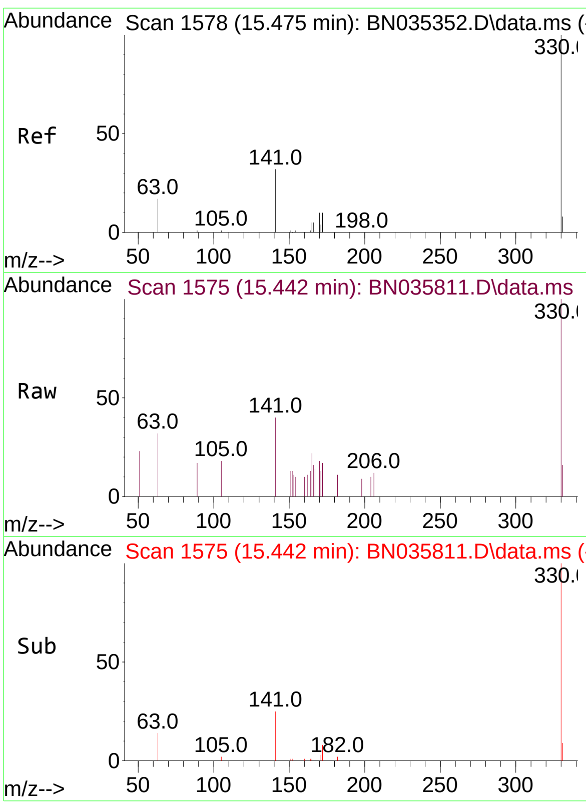
Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel   12/25/2024
Supervised By :mohammad ahmed   12/26/2024

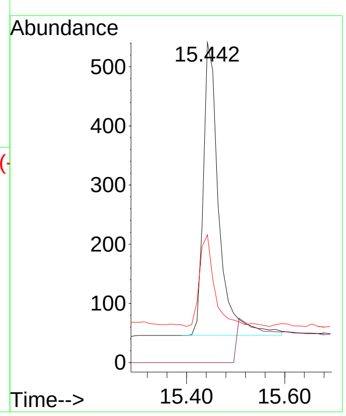


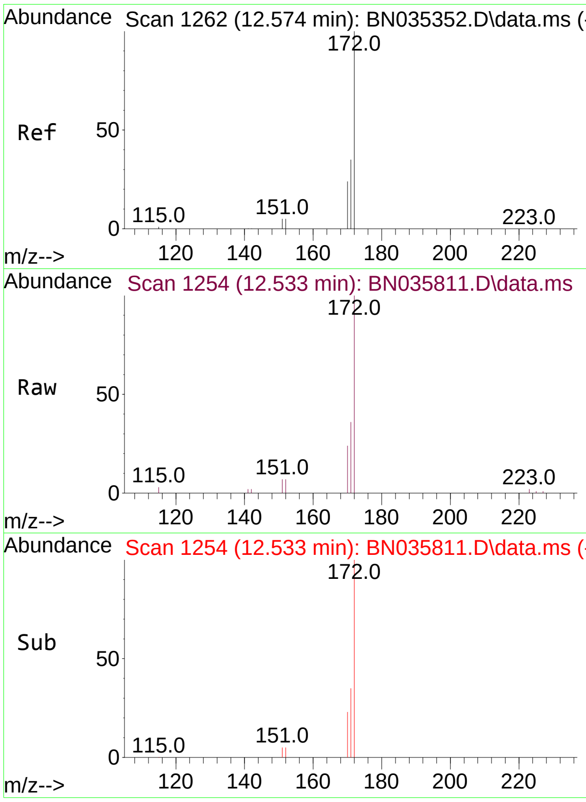


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min   Scan# 1575
Delta R.T.   -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024   08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:172 Resp: 820

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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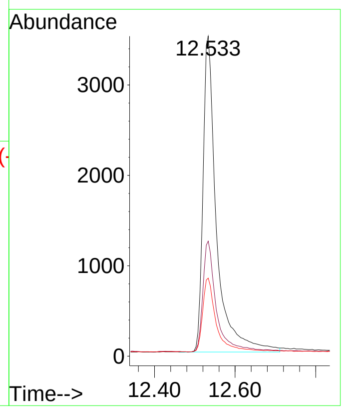
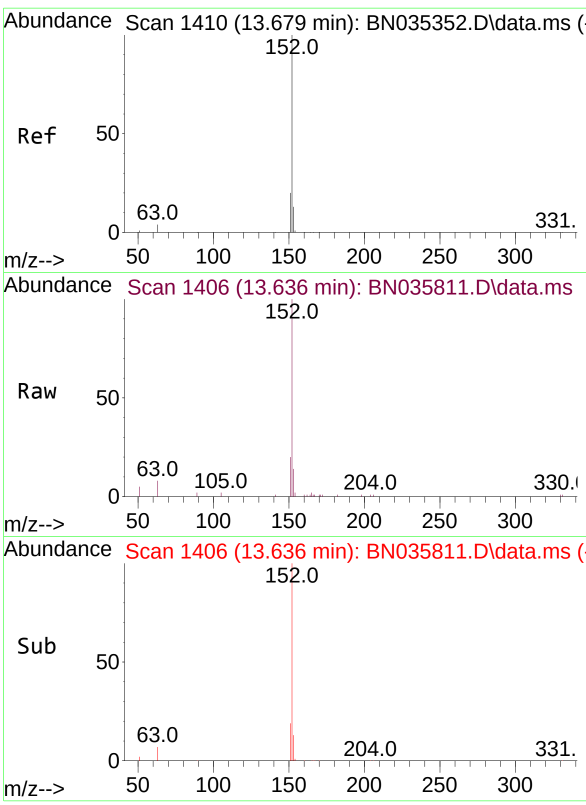
Supervised By :mohammad ahmed 12/26/2024

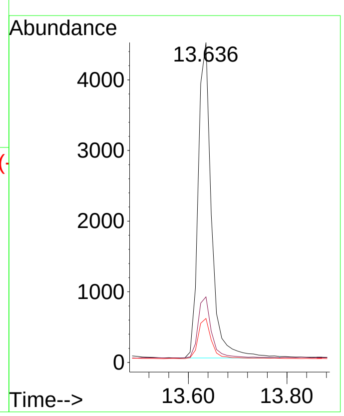


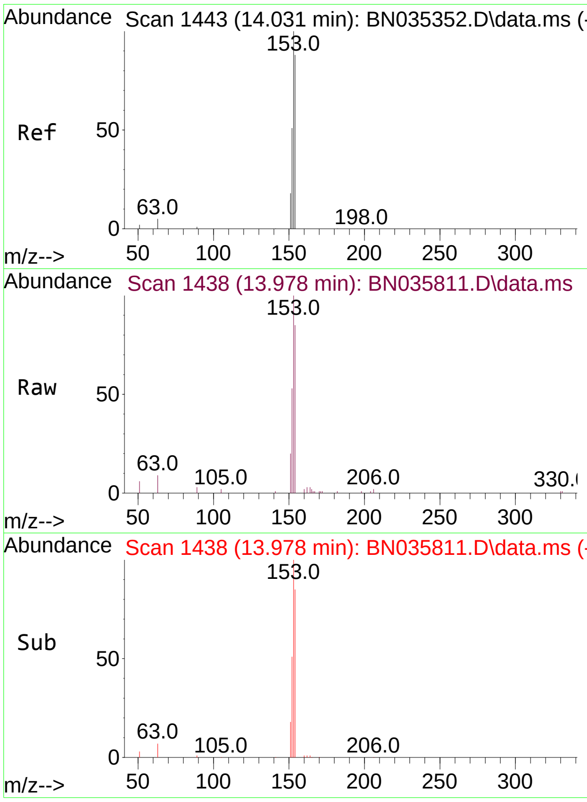


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6





#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:154 Resp: 578

Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6

Instrument :
BNA_N
ClientSampleId :
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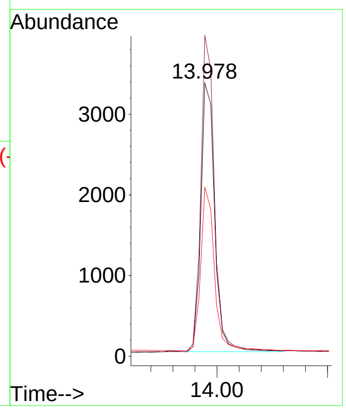
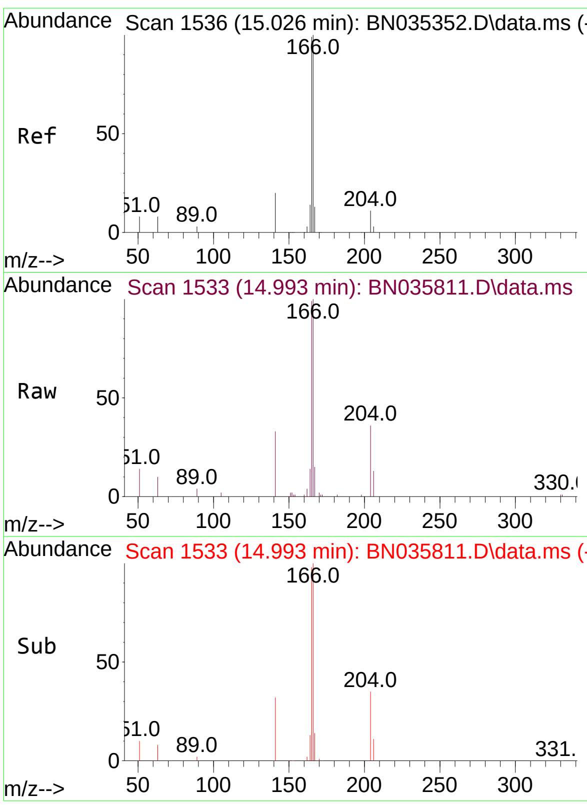
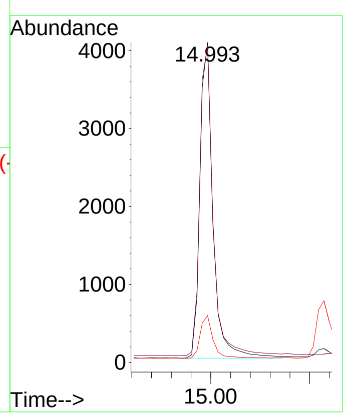




#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
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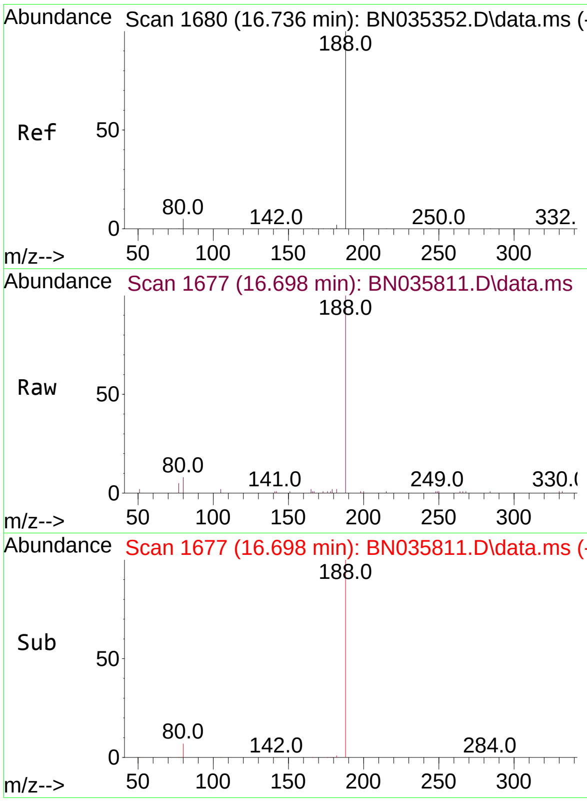
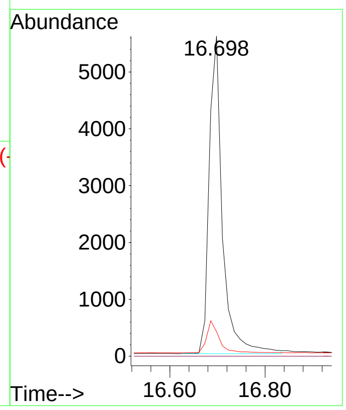
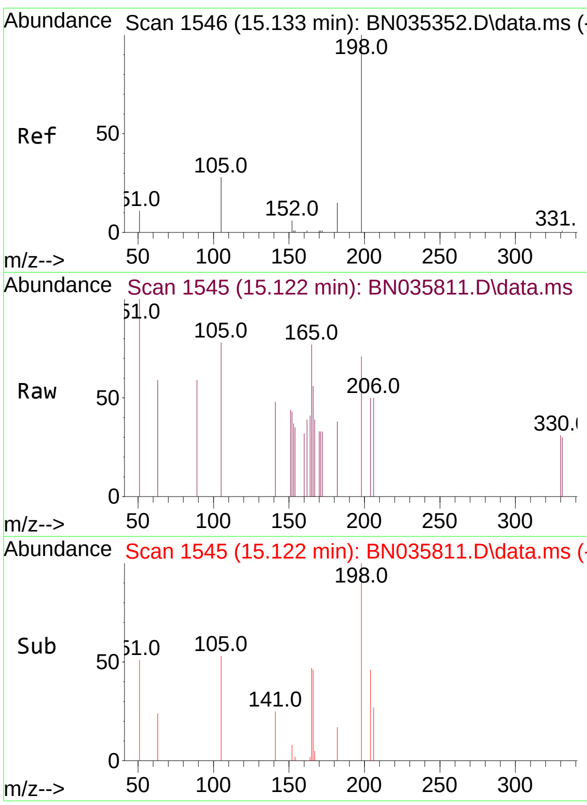


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:188 Resp: 1085

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

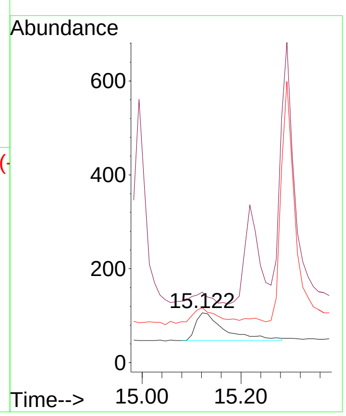


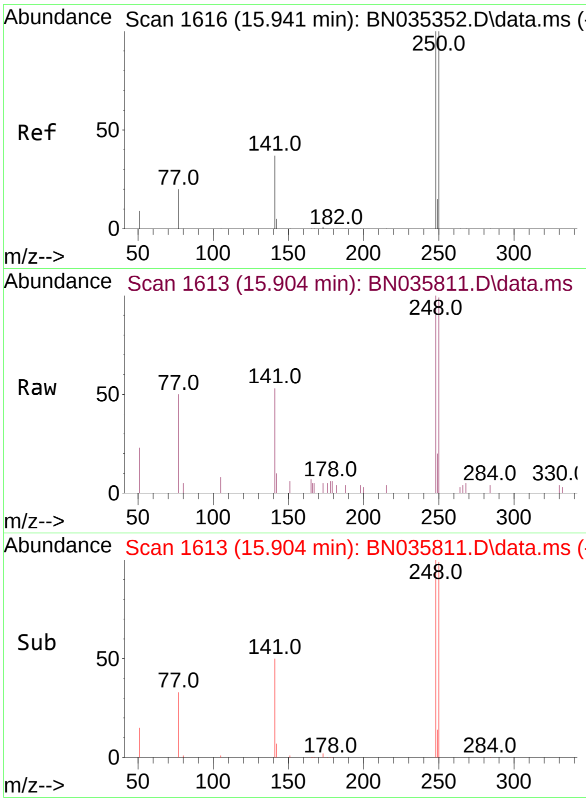


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:248 Resp: 237(

Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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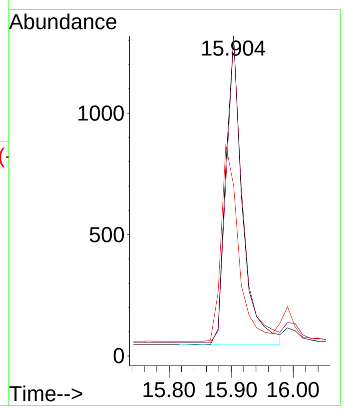
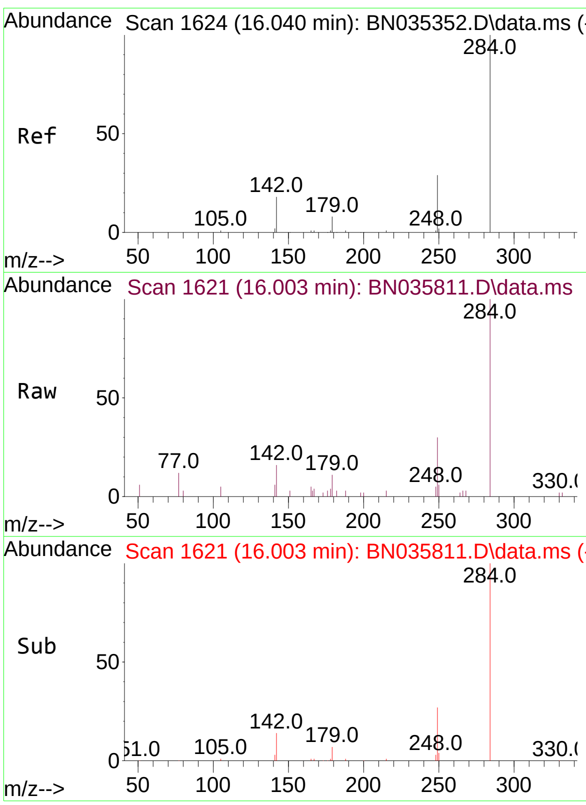
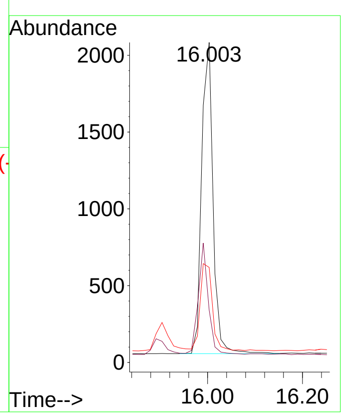


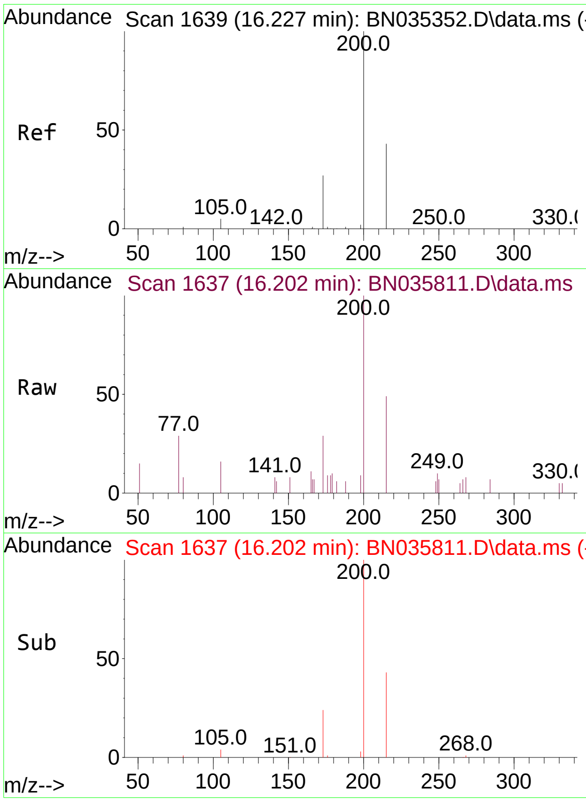


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8

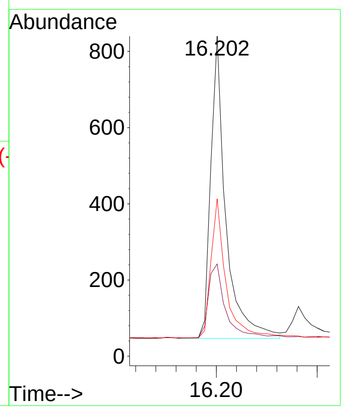




#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:200 Resp: 164

Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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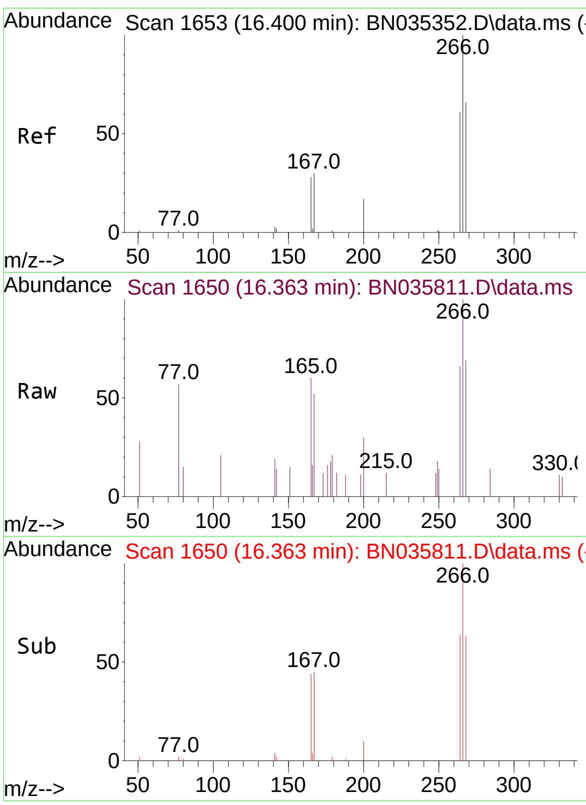
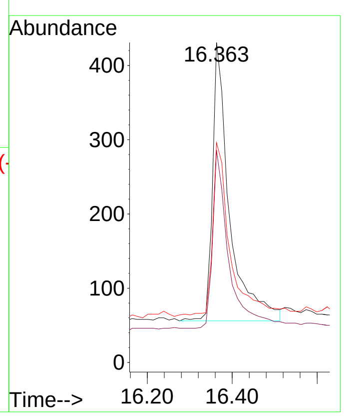
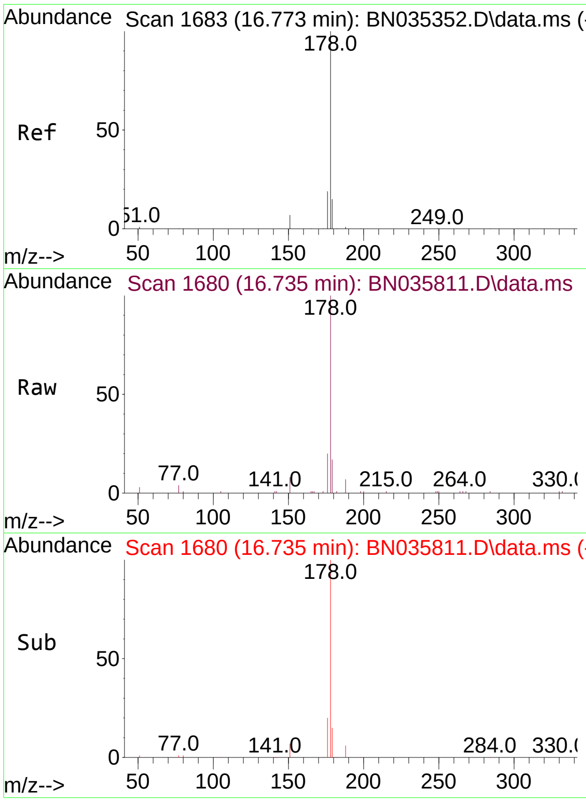


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9





#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 1095

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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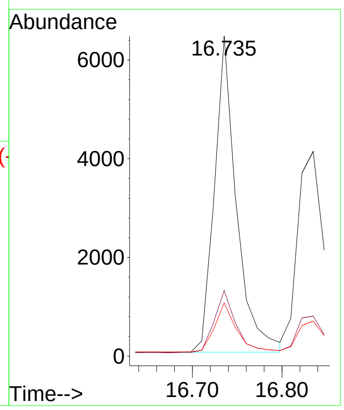
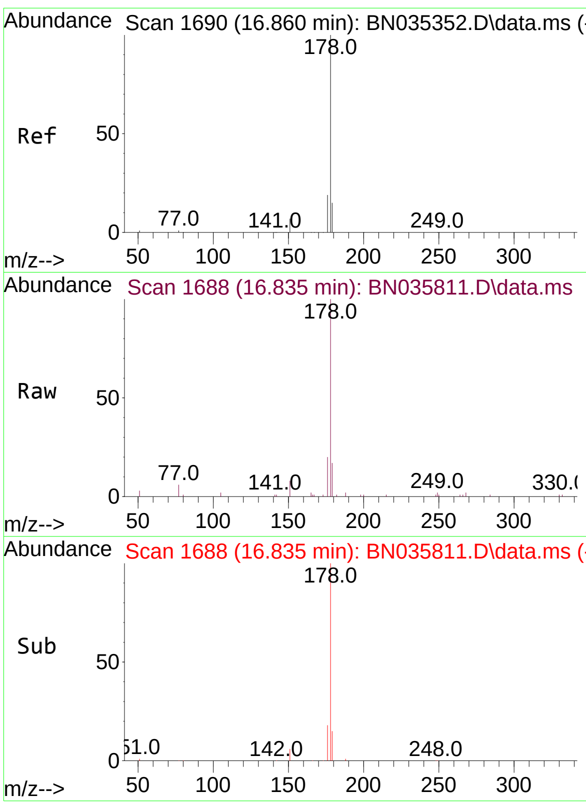
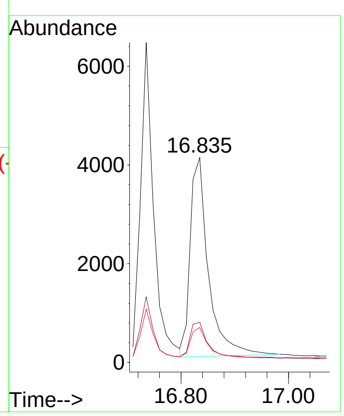




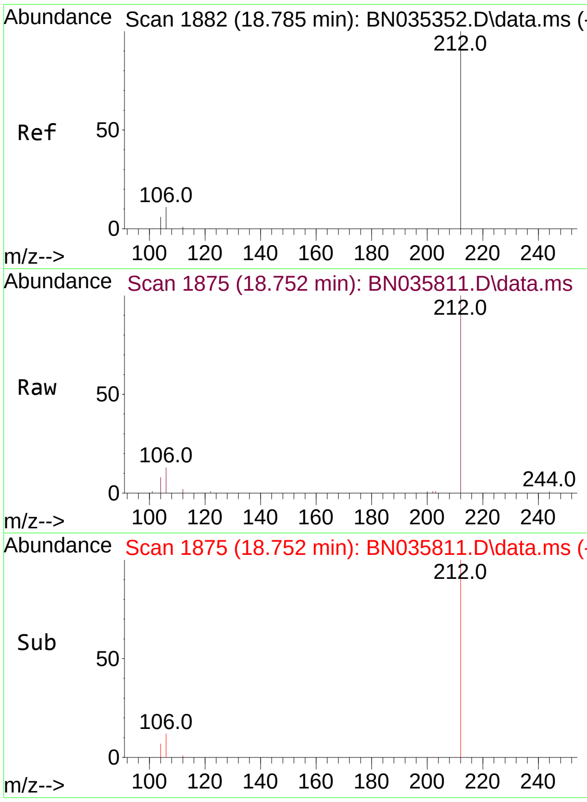
#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8



Sample Results: **BN035811.D**



#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:212 Resp: 1034

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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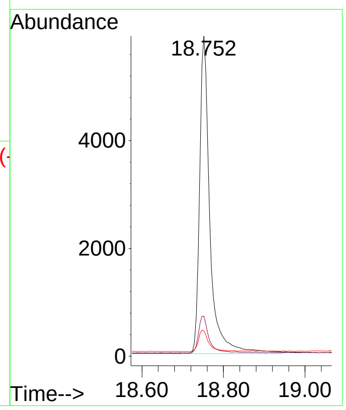
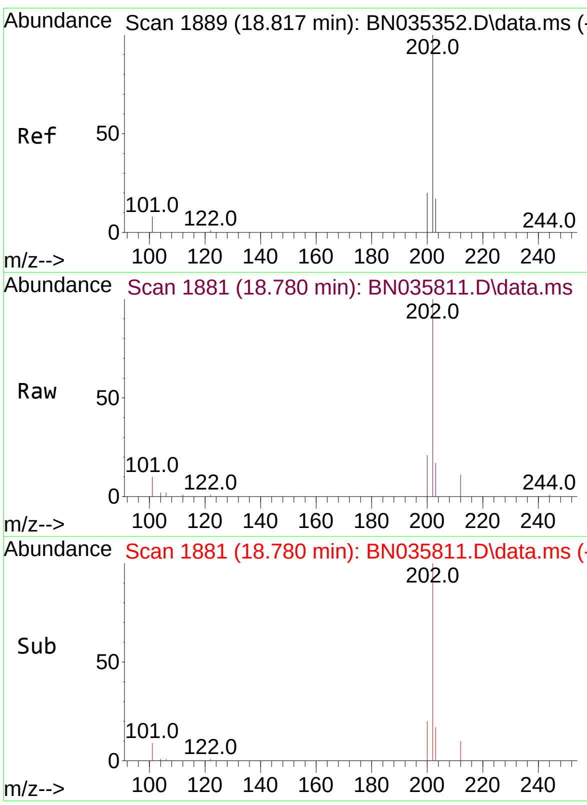
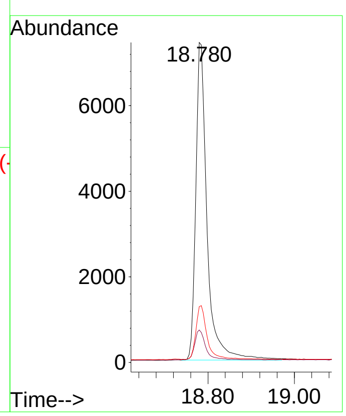




#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5



Sample Results: **BN035811.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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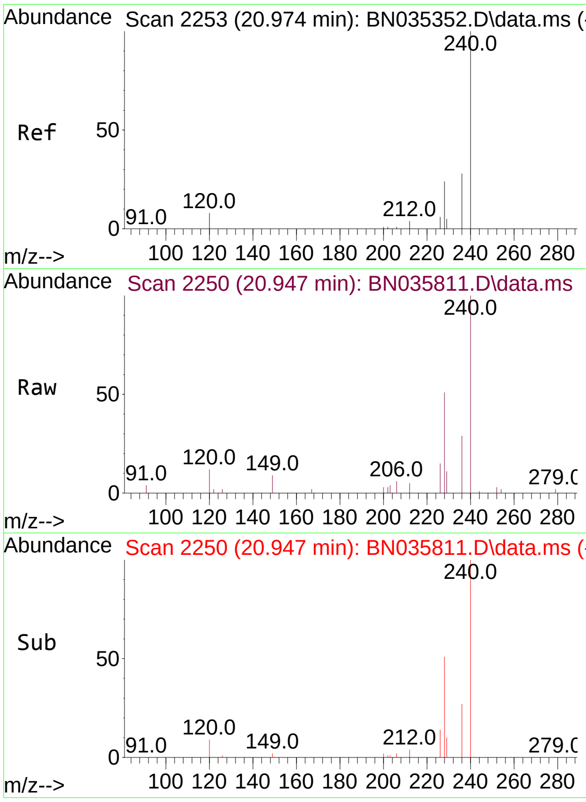
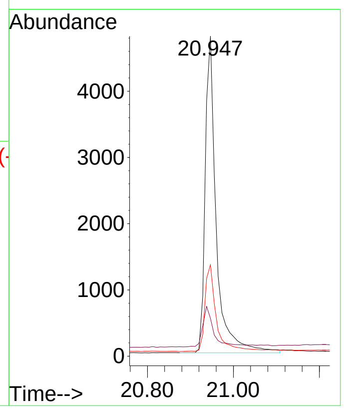
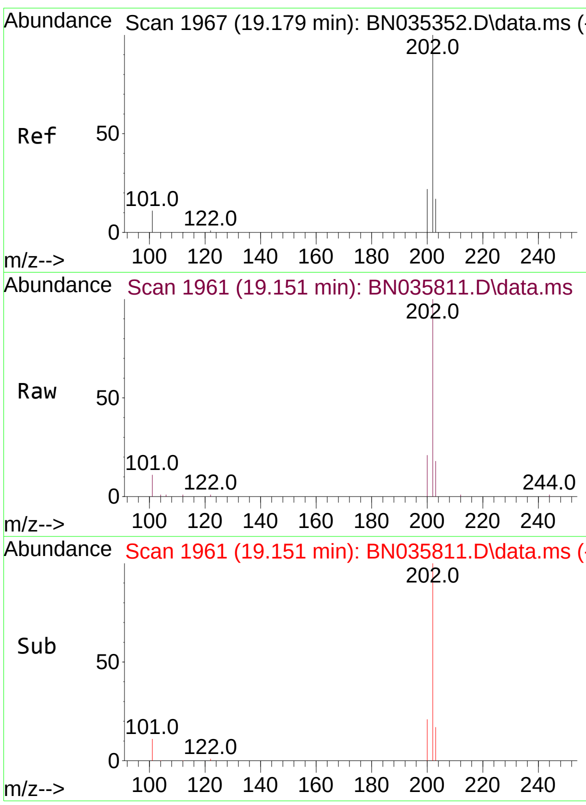


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:240 Resp: 856

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3

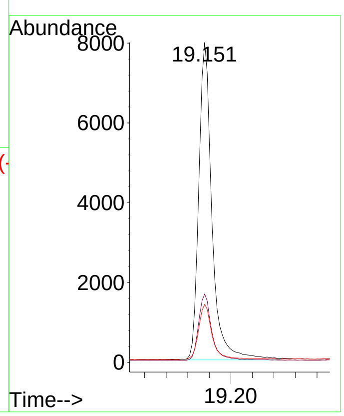


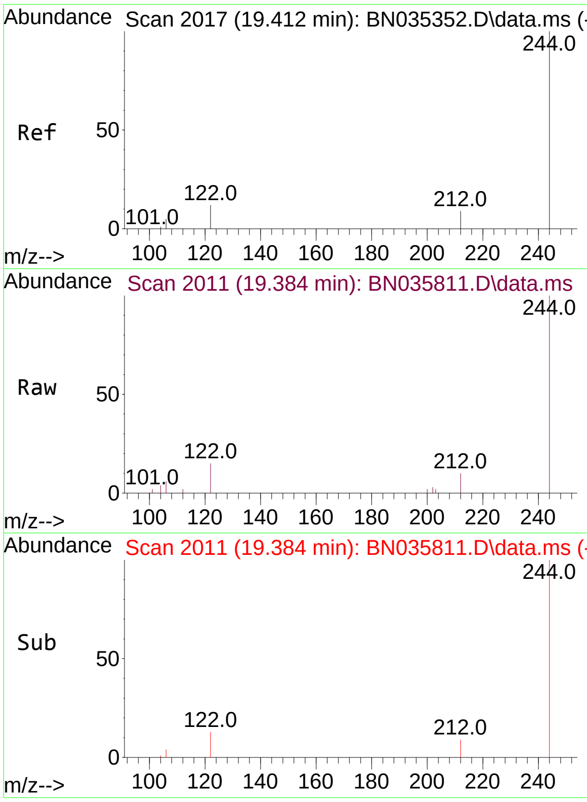


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

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





#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2(
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:244 Resp: 6888

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5

Instrument :
BNA_N
ClientSampleId :
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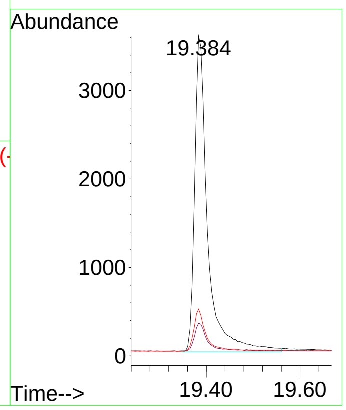
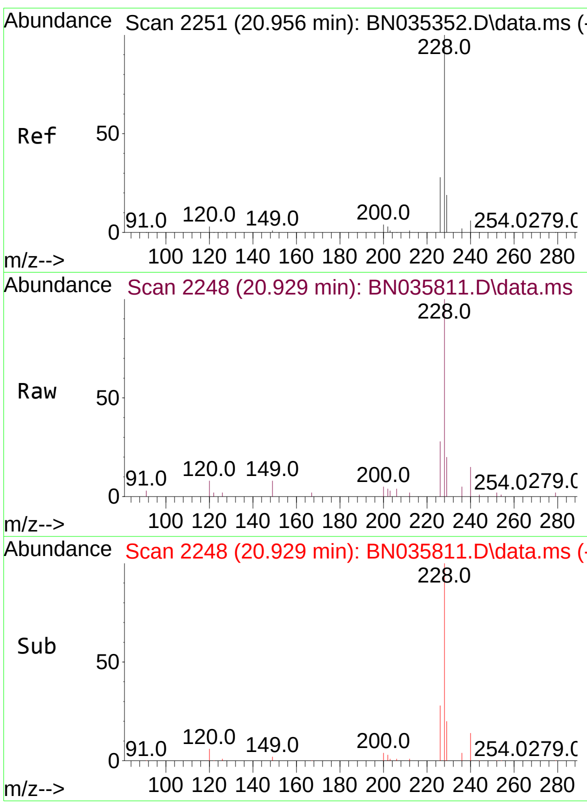
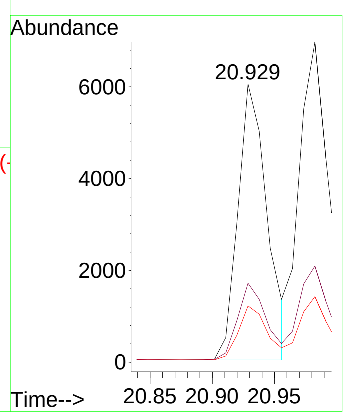


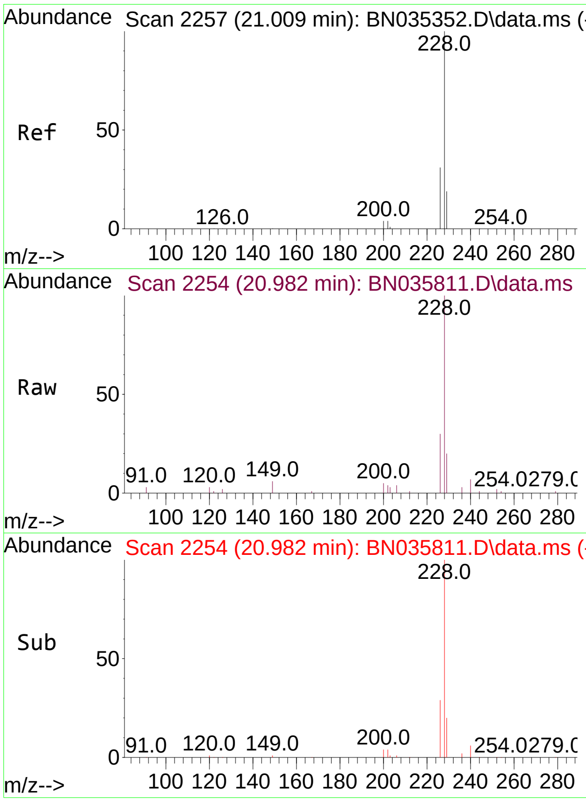


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8





#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 1323

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9

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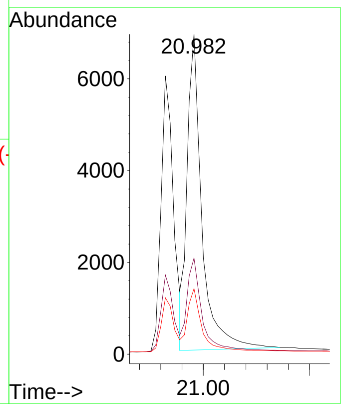
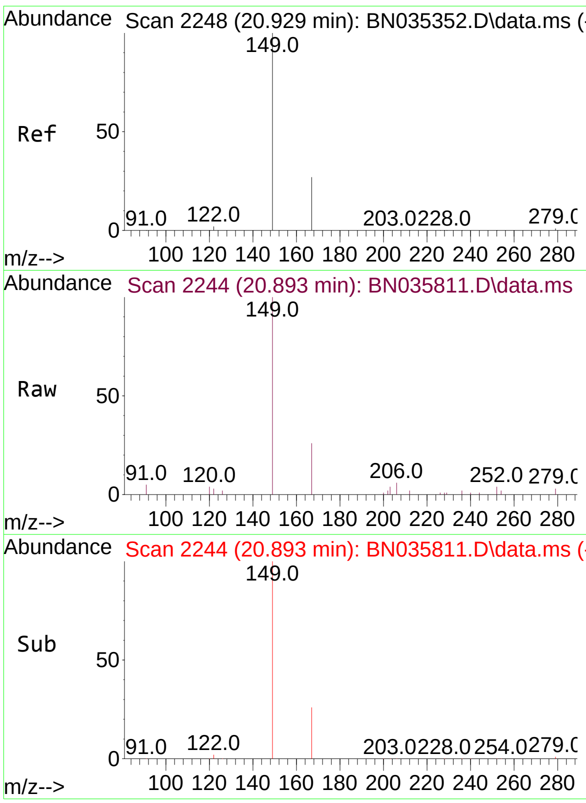
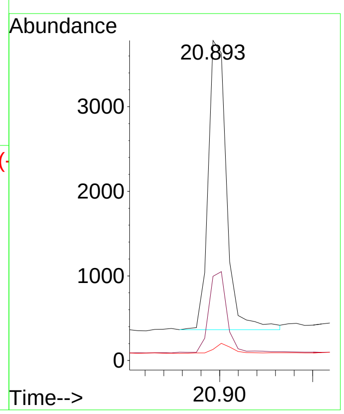


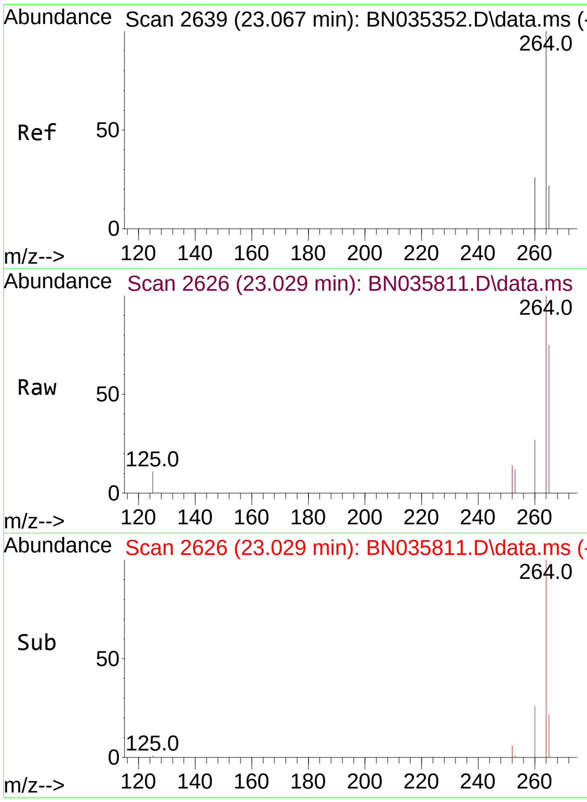


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:264 Resp: 887

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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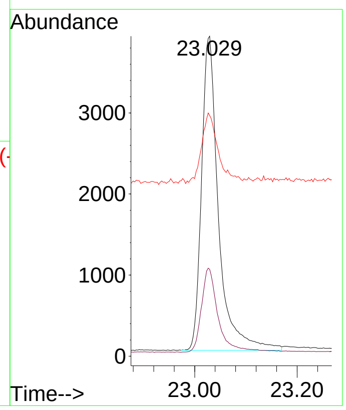
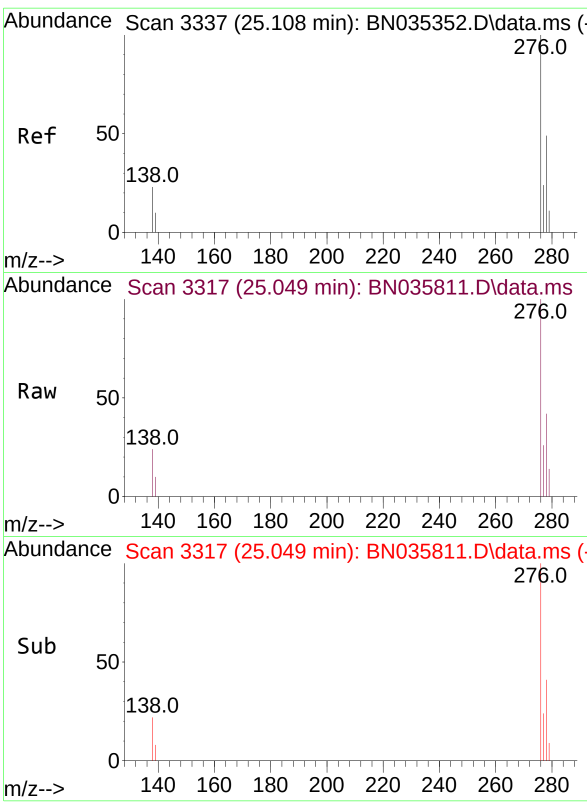
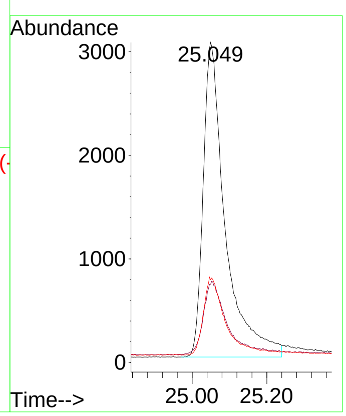


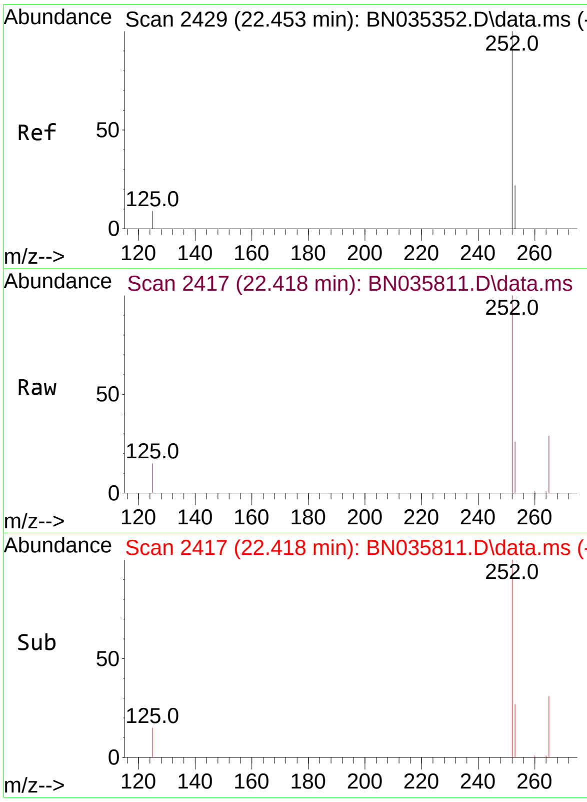


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6

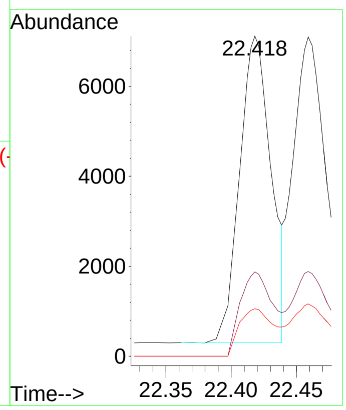




#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 1696

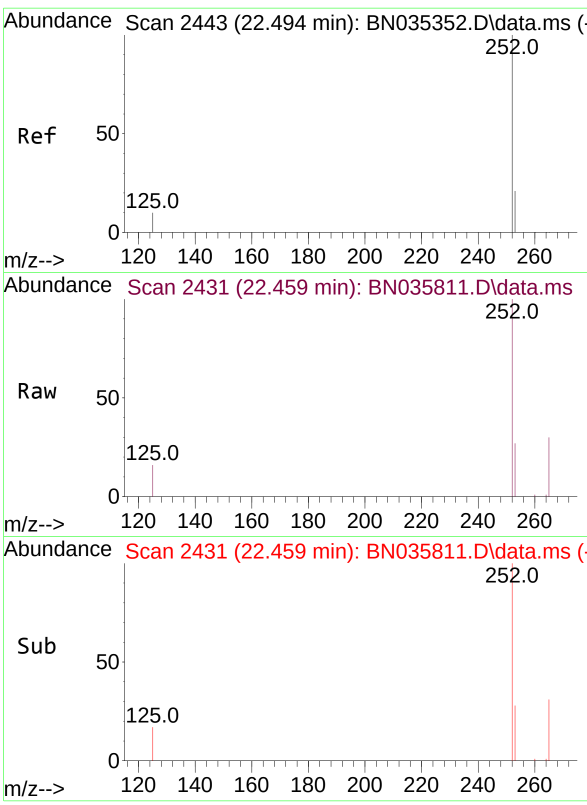
Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

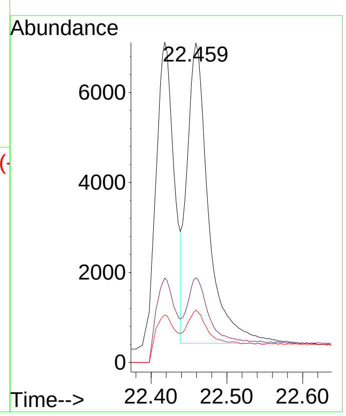
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

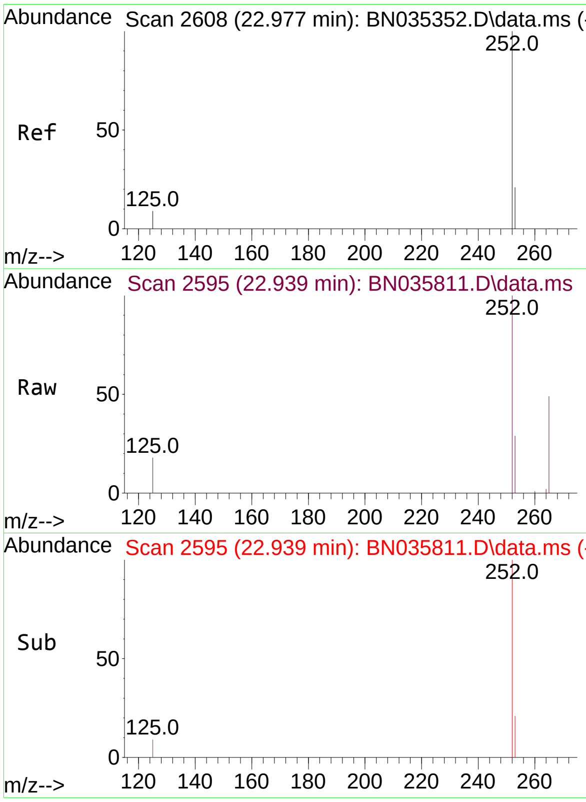


#38
Benzo(k)fluoranthene
Concen: 0.414 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 13236

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	16.4	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

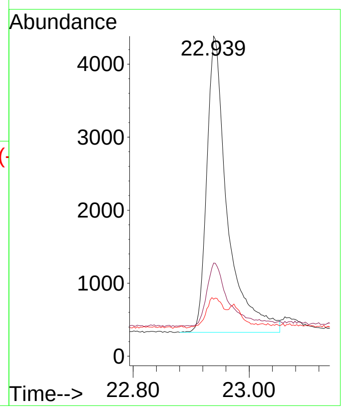
Tgt Ion:252 Resp: 10000

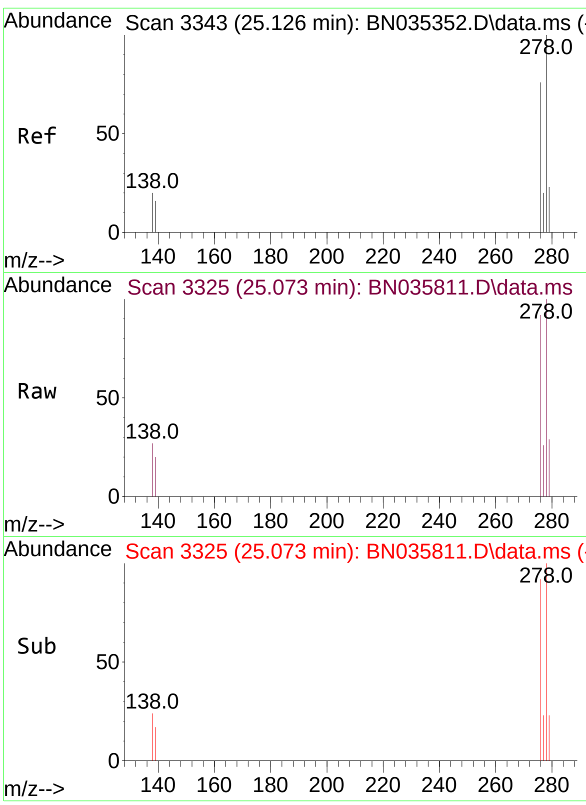
Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

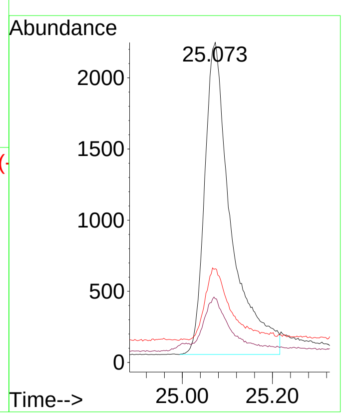




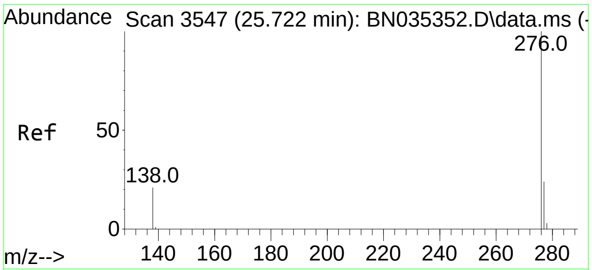
#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

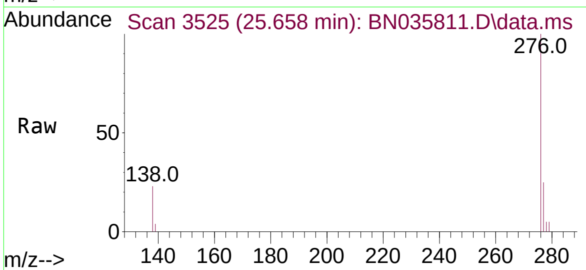
Tgt Ion:278 Resp: 8960

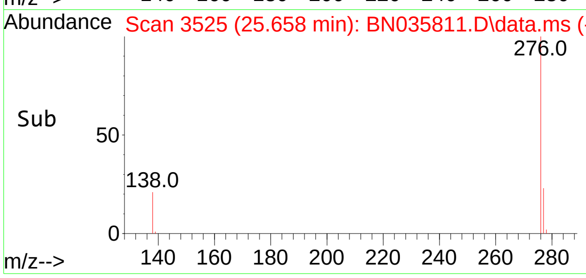
Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7



Sample Results: **BN035811.D**







#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

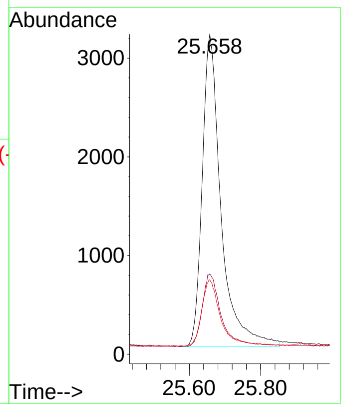
Tgt Ion:276 Resp: 1160

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



Evaluate Continuing Calibration Report

Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	194#	0.00
2		1,4-Dioxane	0.382	0.457	-19.6	235#	0.00
3		n-Nitrosodimethylamine	0.319	0.328	-2.8	195#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	177#	-0.01
5	S	Phenol-d6	1.204	1.289	-7.1	209#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.924	8.7	181#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	181#	-0.02
8	S	Nitrobenzene-d5	0.244	0.285	-16.8	220#	-0.01
9		Naphthalene	1.055	1.020	3.3	177#	-0.01
10		Hexachlorobutadiene	0.243	0.269	-10.7	197#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.541	13.6	158#	-0.01
12		2-Methylnaphthalene	0.755	0.639	15.4	157#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	118	-0.01
15	S	2-Fluorobiphenyl	1.512	1.523	-0.7	143	-0.01
16		Acenaphthylene	1.680	1.562	7.0	139	-0.01
17		Acenaphthene	1.115	1.073	3.8	140	-0.02
18		Fluorene	1.596	1.384	13.3	127	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.022	43.6#	72	0.00
21		4-Bromophenyl-phenylether	0.234	0.219	6.4	111	-0.01
22		Hexachlorobenzene	0.275	0.313	-13.8	131	-0.01
23		Atrazine	0.167	0.151	9.6	112	0.00
24		Pentachlorophenol	0.120	0.096	20.0	115	-0.01
25		Phenanthrene	1.099	1.009	8.2	108	-0.01
26		Anthracene	0.994	0.874	12.1	106	0.00
27	SURR	Fluoranthene-d10	1.134	0.953	16.0	101	0.00
28		Fluoranthene	1.481	1.236	16.5	100	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.477	1.584	-7.2	97	0.00
31	S	Terphenyl-d14	0.789	0.804	-1.9	91	0.00
32		Benzo(a)anthracene	1.399	1.143	18.3	76	0.00
33		Chrysene	1.443	1.544	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.551	0.4	96	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.407	10.0	75	-0.02
37		Benzo(b)fluoranthene	1.463	1.911	-30.6#	119	-0.01
38		Benzo(k)fluoranthene	1.440	1.491	-3.5	87	-0.01
39	C	Benzo(a)pyrene	1.205	1.126	6.6	80	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.009	18.2	69	0.00
41		Benzo(g,h,i)perylene	1.289	1.307	-1.4	86	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035811.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	194	0.00
2		1,4-Dioxane	0.400	0.478	-19.5	235	0.00
3		n-Nitrosodimethylamine	0.400	0.412	-3.0	195	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	177	-0.01
5	S	Phenol-d6	0.400	0.428	-7.0	209	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.366	8.5	181	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	181	-0.02
8	S	Nitrobenzene-d5	0.400	0.467	-16.8	220	-0.01
9		Naphthalene	0.400	0.387	3.3	177	-0.01
10		Hexachlorobutadiene	0.400	0.442	-10.5	197	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.346	13.5	158	-0.01
12		2-Methylnaphthalene	0.400	0.338	15.5	157	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	118	-0.01
15	S	2-Fluorobiphenyl	0.400	0.403	-0.8	143	-0.01
16		Acenaphthylene	0.400	0.372	7.0	139	-0.01
17		Acenaphthene	0.400	0.385	3.8	140	-0.02
18		Fluorene	0.400	0.347	13.3	127	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.229	42.8#	72	0.00
21		4-Bromophenyl-phenylether	0.400	0.375	6.3	111	-0.01
22		Hexachlorobenzene	0.400	0.455	-13.7	131	-0.01
23		Atrazine	0.400	0.363	9.3	112	0.00
24		Pentachlorophenol	0.400	0.321	19.8	115	-0.01
25		Phenanthrene	0.400	0.367	8.3	108	-0.01
26		Anthracene	0.400	0.352	12.0	106	0.00
27	SURR	Fluoranthene-d10	0.400	0.336	16.0	101	0.00
28		Fluoranthene	0.400	0.334	16.5	100	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	90	0.00
30		Pyrene	0.400	0.429	-7.2	97	0.00
31	S	Terphenyl-d14	0.400	0.407	-1.7	91	0.00
32		Benzo(a)anthracene	0.400	0.327	18.3	76	0.00
33		Chrysene	0.400	0.428	-7.0	96	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.399	0.3	96	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.360	10.0	75	-0.02
37		Benzo(b)fluoranthene	0.400	0.522	-30.5#	119	-0.01
38		Benzo(k)fluoranthene	0.400	0.414	-3.5	87	-0.01
39	C	Benzo(a)pyrene	0.400	0.374	6.5	80	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.327	18.3	69	0.00
41		Benzo(g,h,i)perylene	0.400	0.405	-1.3	86	-0.02

(#) = 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.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: BNA_N Calibration Date/Time: 12/24/2024 19:05

Lab File ID: BN035828.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	0.533		-14.9	50.0
Fluoranthene-d10	1.134	0.931		-17.9	50.0
2-Fluorophenol	1.001	0.895		-10.6	50.0
Phenol-d6	1.204	1.524		26.6	50.0
Nitrobenzene-d5	0.244	0.319		30.7	50.0
2-Fluorobiphenyl	1.512	1.565		3.5	50.0
2,4,6-Tribromophenol	0.284	0.194		-31.7	50.0
Terphenyl-d14	0.789	0.809		2.5	50.0
1,4-Dioxane	0.382	0.501		31.2	50.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BN035828.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On    : 24 Dec 2024  19:05
Operator  : RC/JU
Sample    : SSTDCCC0.4
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400	ng	-0.02
7) Naphthalene-d8	9.998	136	9840	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7447	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	7426	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3589	0.358	ng	-0.01
5) Phenol-d6	6.470	99	6110	0.506	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3140m	0.522	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414	ng	-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328	ng	0.00
31) Terphenyl-d14	19.384	244	6024	0.410	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524	ng	99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384	ng	# 82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407	ng	99
9) Naphthalene	10.052	128	10772	0.415	ng	99
10) Hexachlorobutadiene	10.340	225	2784	0.465	ng	# 99
12) 2-Methylnaphthalene	11.686	142	6505	0.350	ng	99
16) Acenaphthylene	13.636	152	8453	0.375	ng	99
17) Acenaphthene	13.978	154	5821	0.389	ng	100
18) Fluorene	14.993	166	7311	0.341	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245	ng	# 24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395	ng	# 91
22) Hexachlorobenzene	16.003	284	3296	0.484	ng	99
23) Atrazine	16.202	200	1504	0.365	ng	95
24) Pentachlorophenol	16.363	266	898	0.303	ng	89
25) Phenanthrene	16.735	178	10097	0.371	ng	100
26) Anthracene	16.835	178	8619	0.350	ng	100
28) Fluoranthene	18.784	202	11973	0.326	ng	99
30) Pyrene	19.151	202	12223	0.445	ng	100
32) Benzo(a)anthracene	20.929	228	8203	0.315	ng	99
33) Chrysene	20.982	228	11628	0.433	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402	ng	99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355	ng	# 83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635	ng	# 95
38) Benzo(k)fluoranthene	22.462	252	11542m	0.432	ng	
39) Benzo(a)pyrene	22.944	252	8337	0.373	ng	# 87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323	ng	# 90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403	ng	98

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

Sample Results: **BN035828.D**

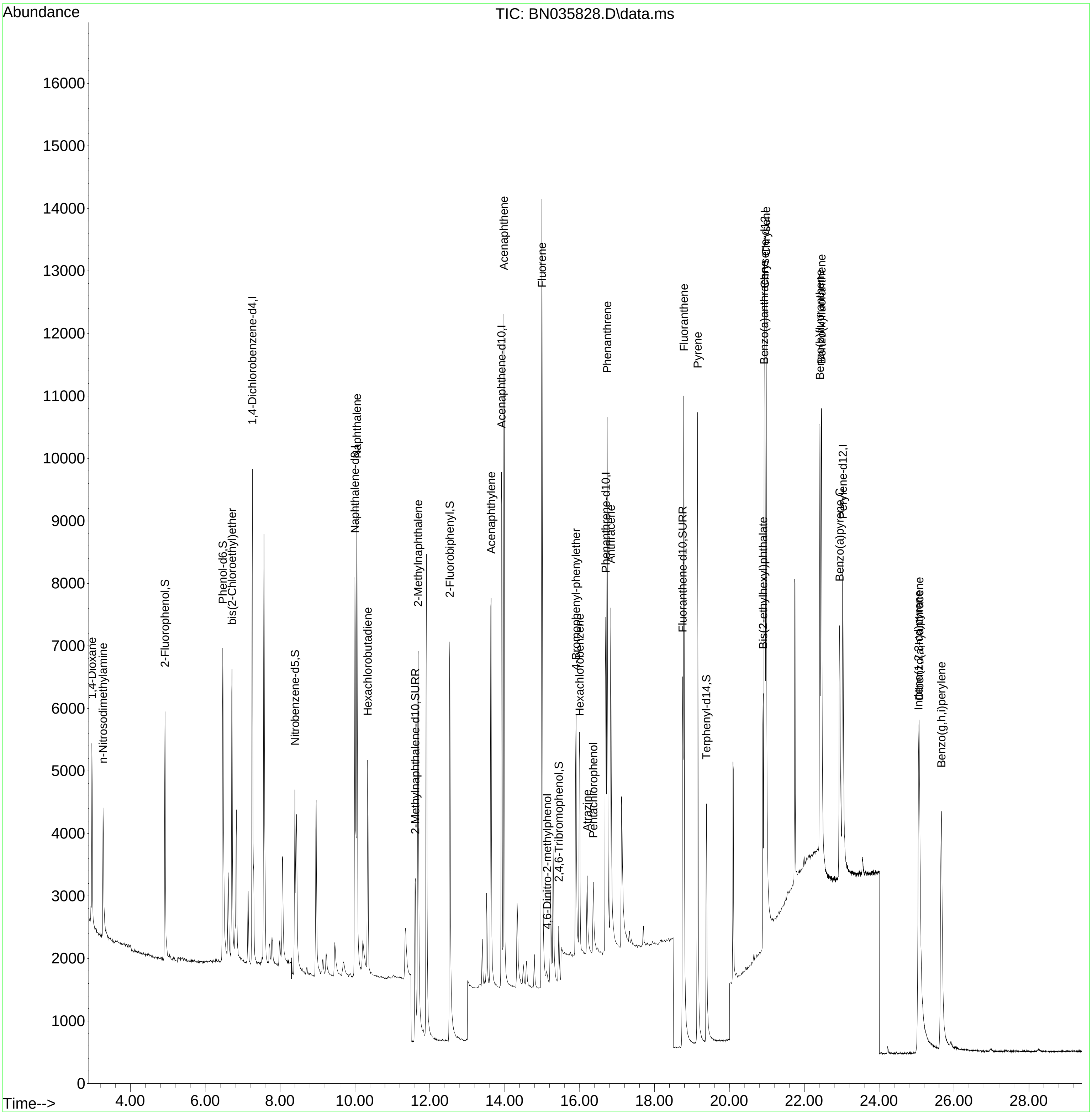
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On    : 24 Dec 2024  19:05
Operator  : RC/JU
Sample    : SSTDCCC0.4
Misc      :
ALS Vial  : 20   Sample Multiplier: 1

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

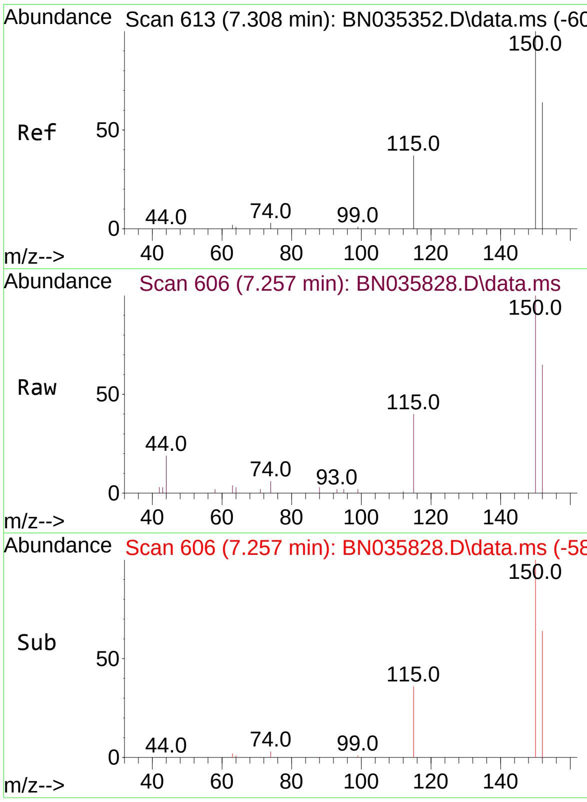
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

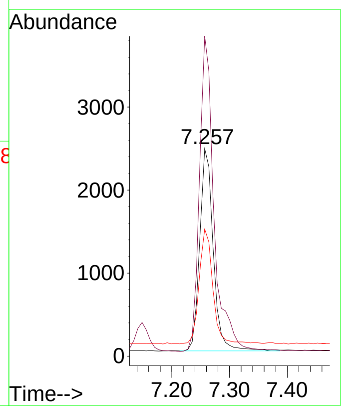
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

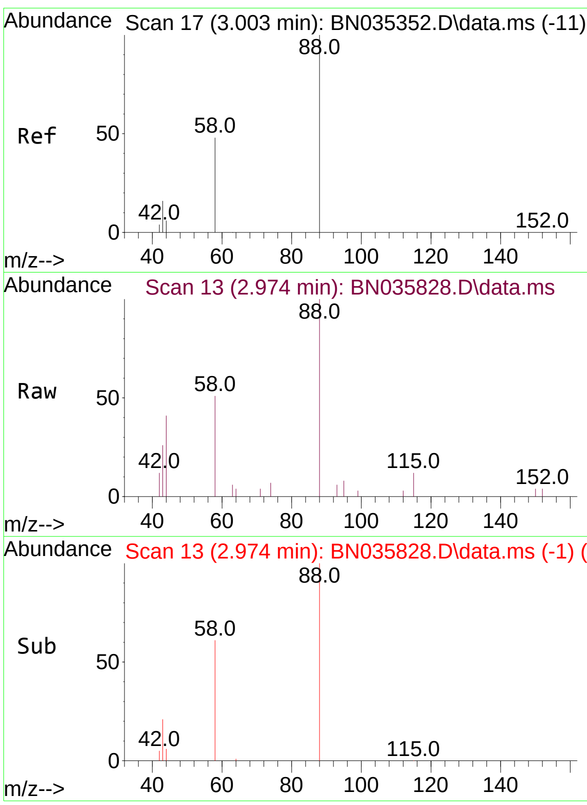


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 400

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4

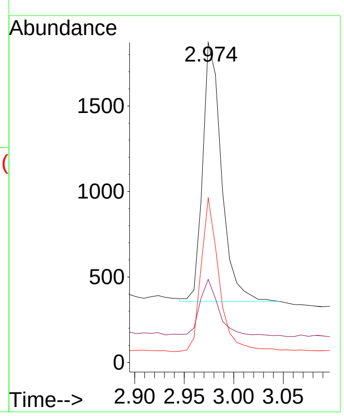


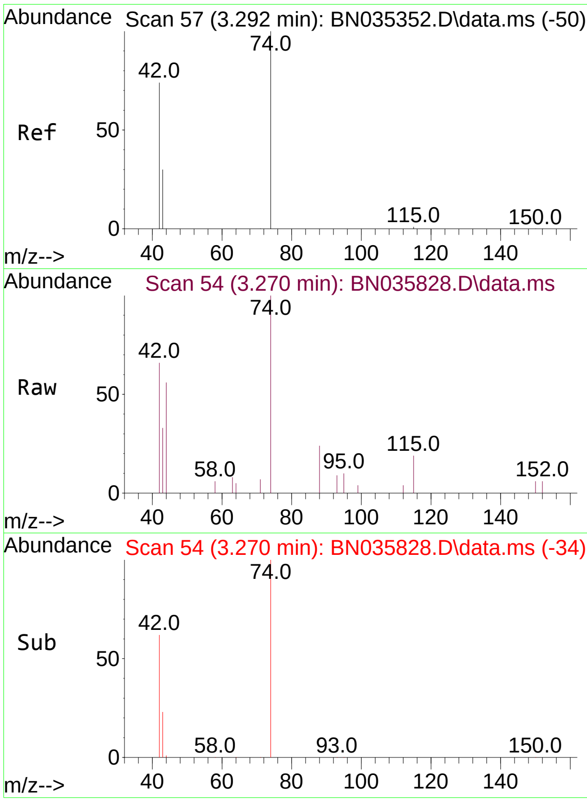


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7





#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 42 Resp: 122

Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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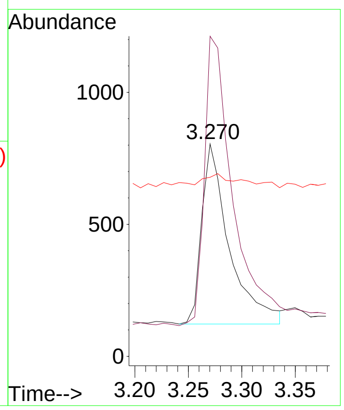
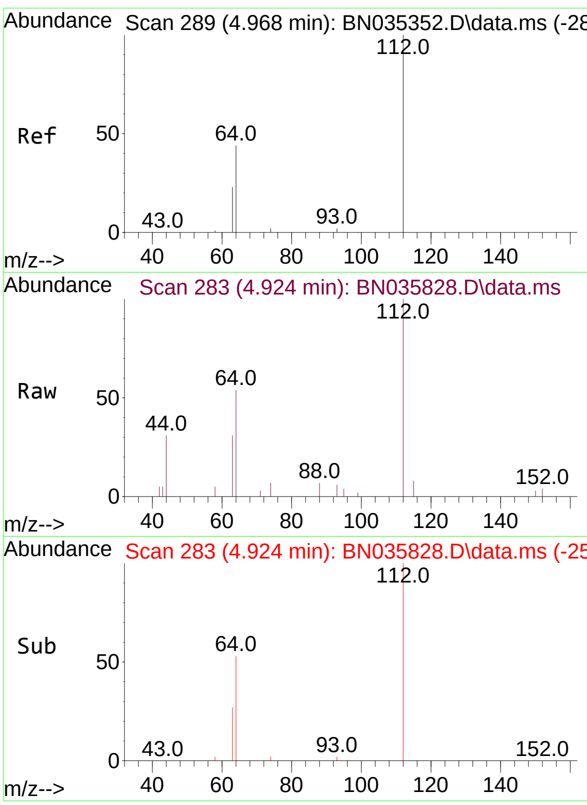
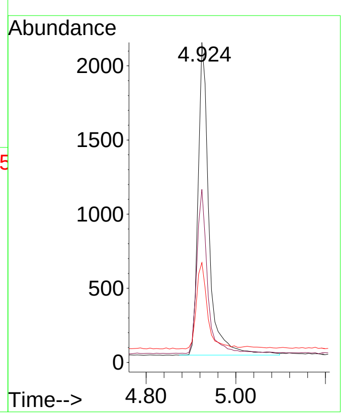




#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6



Sample Results: **BN035828.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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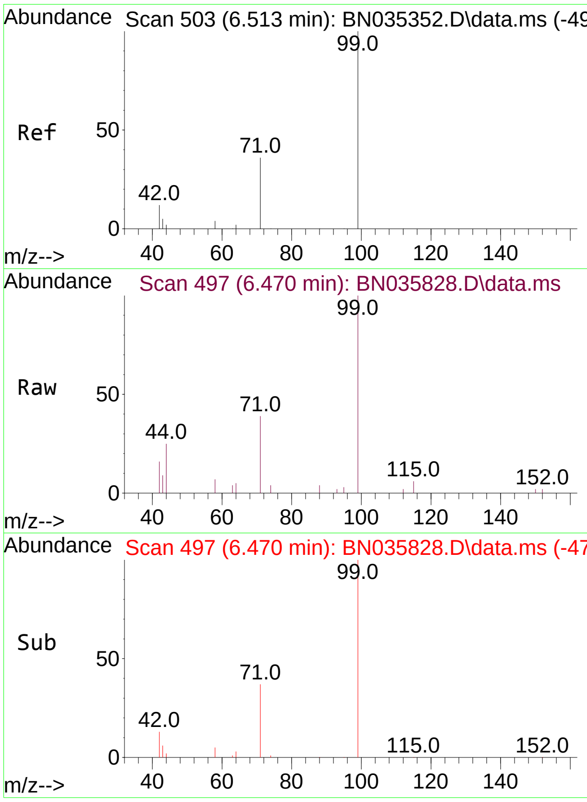
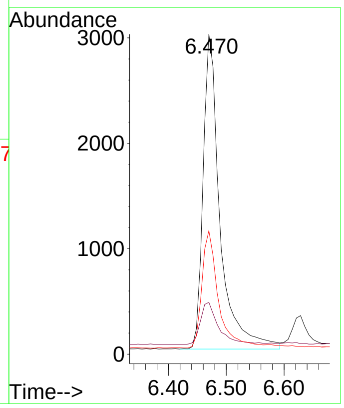
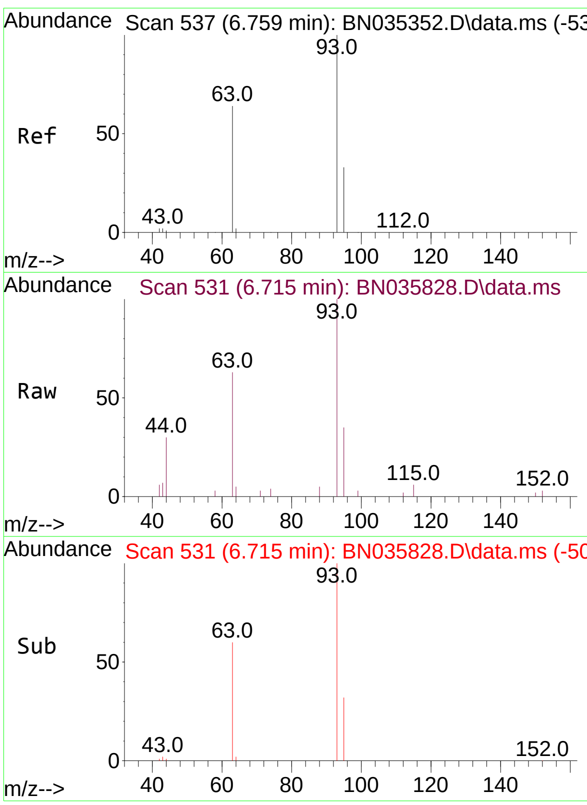


#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 99 Resp: 611

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9

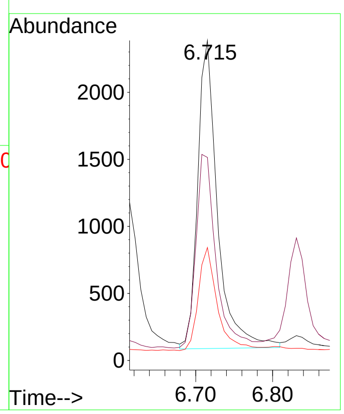




#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5



Instrument :
BNA_N
ClientSampleId :
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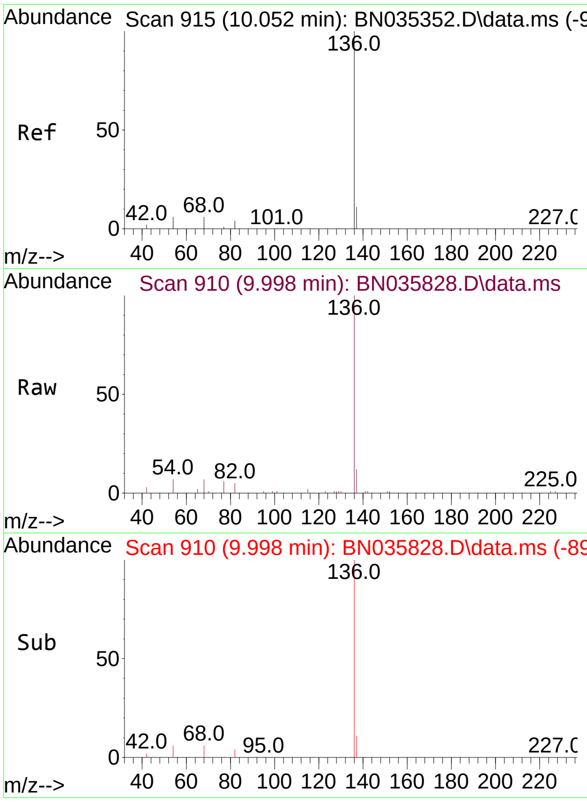
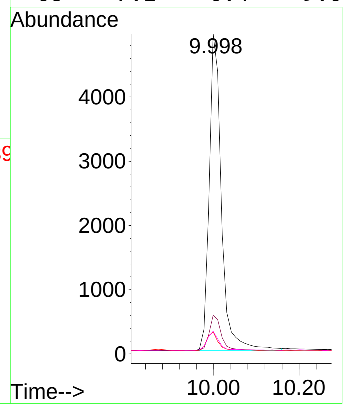
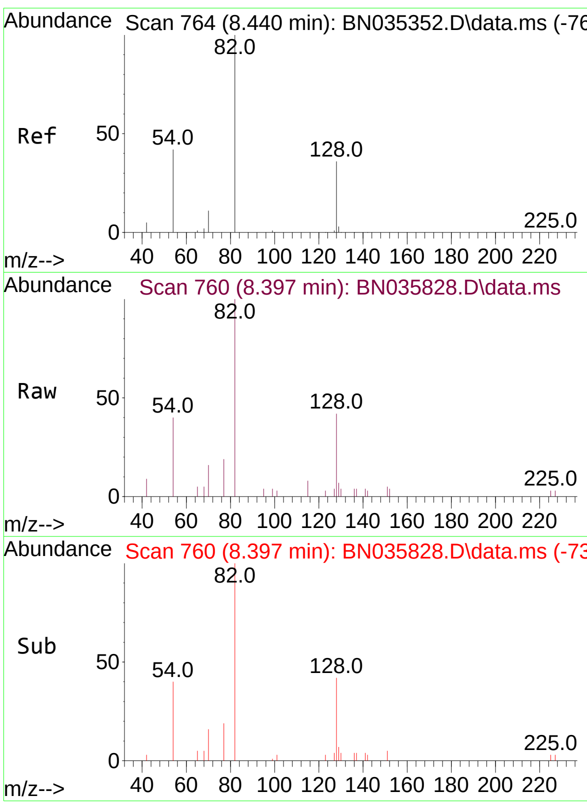


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:136 Resp: 984(

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

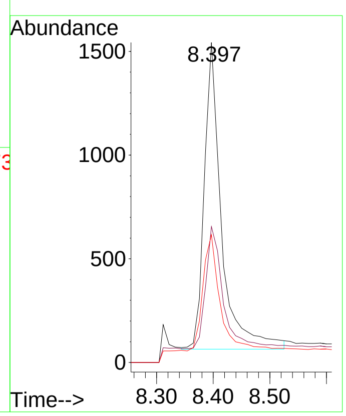




#8
Nitrobenzene-d5
Concen: 0.522 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 82 Resp: 3140

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
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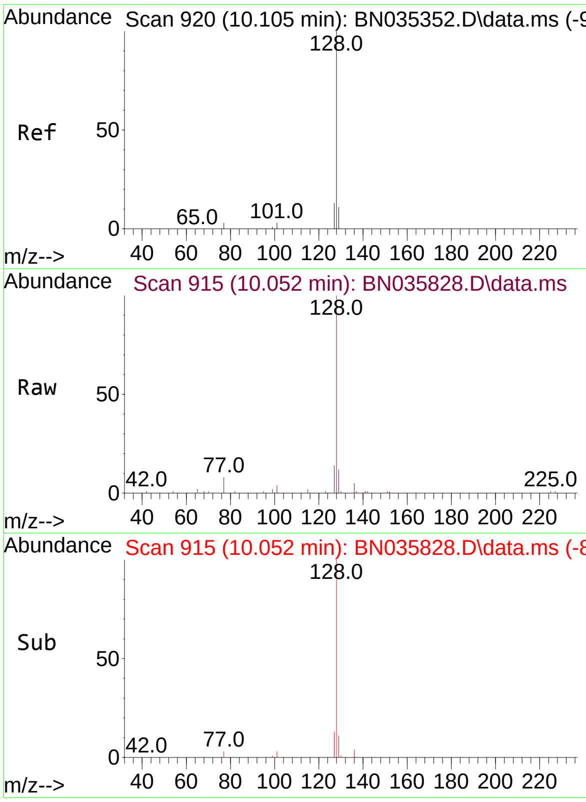
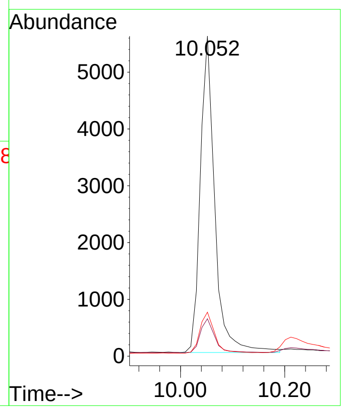
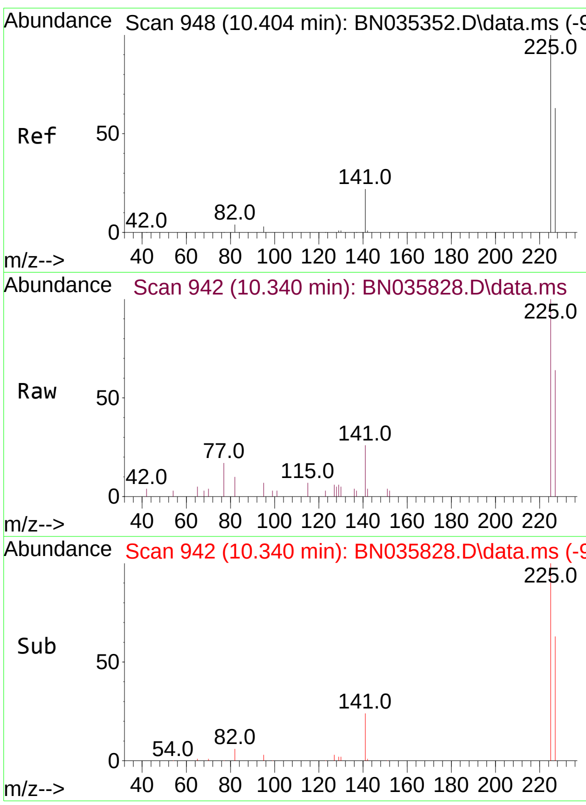


#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:128 Resp: 1077

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2

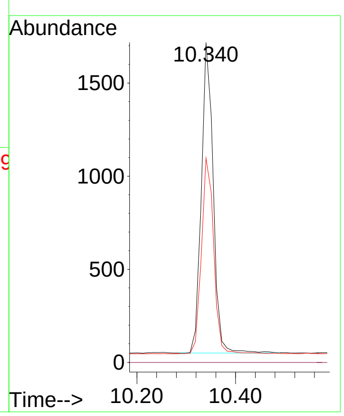


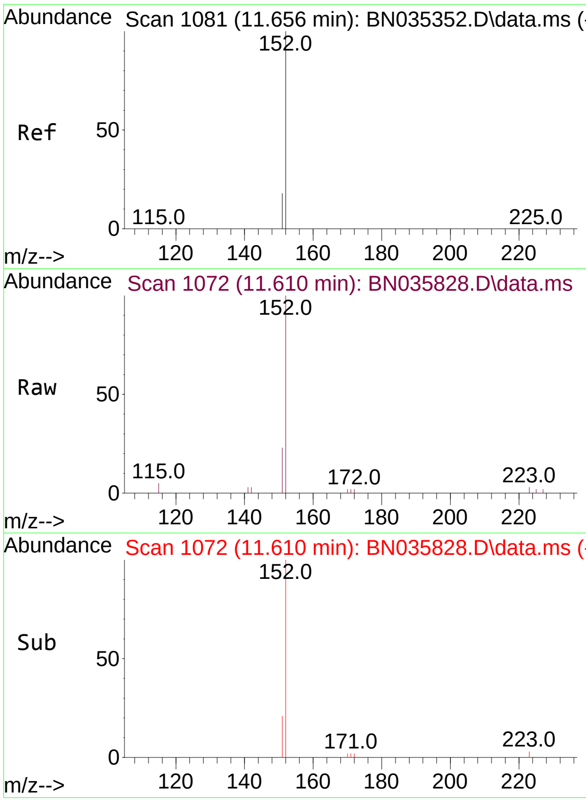


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 524

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

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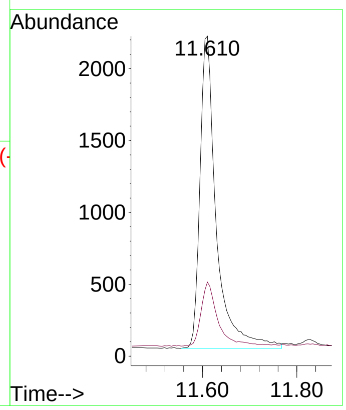
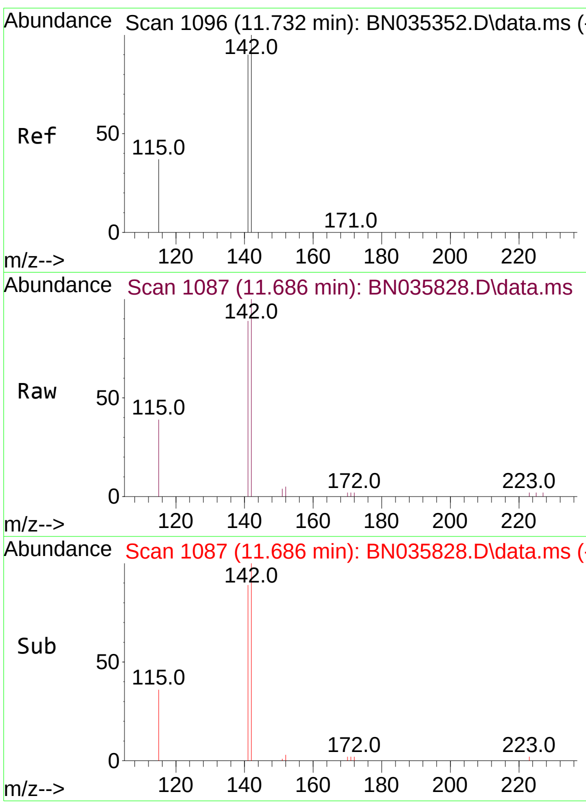
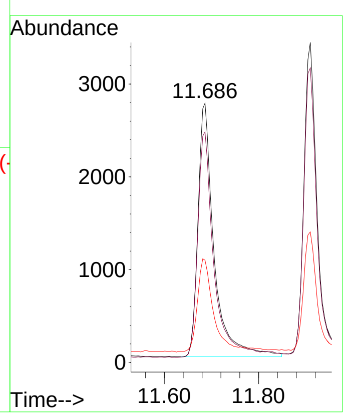




#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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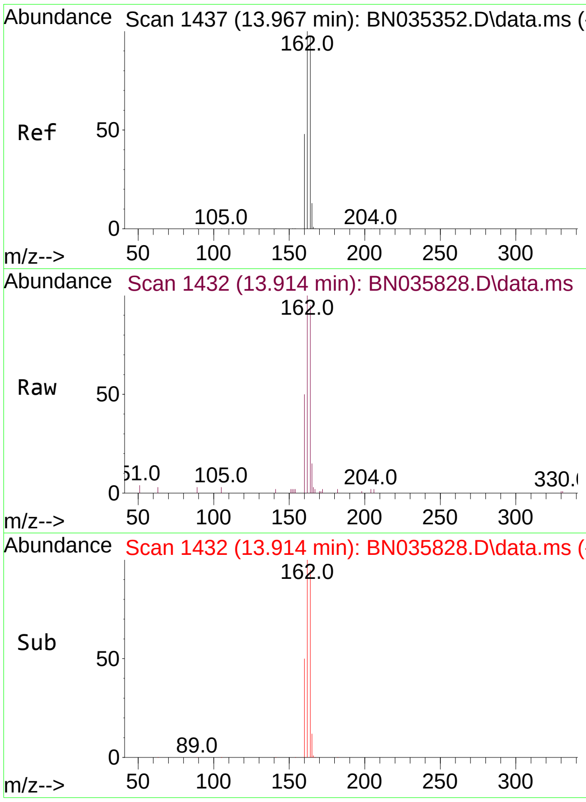
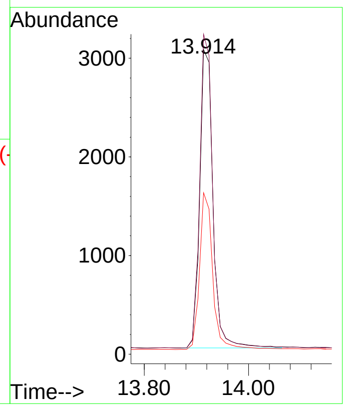
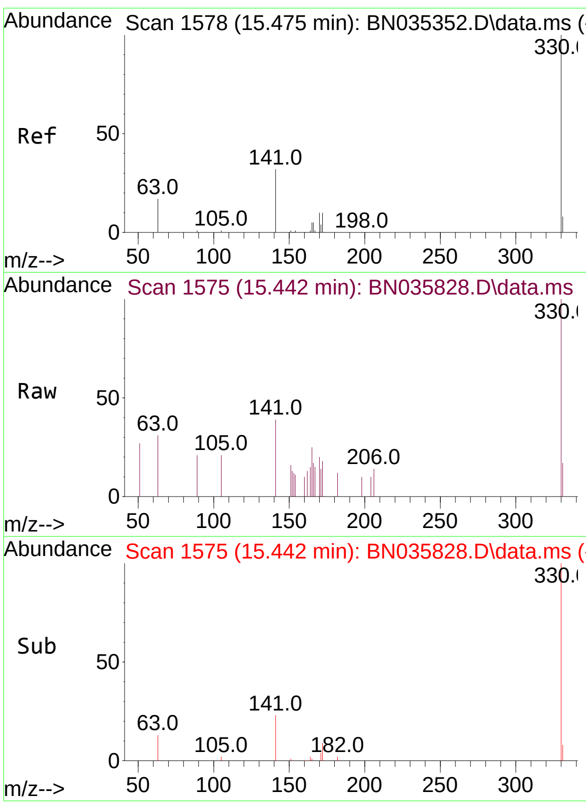


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:164 Resp: 537

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1

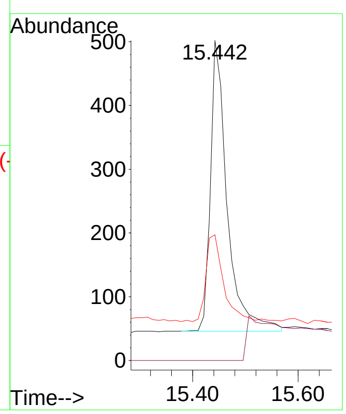




#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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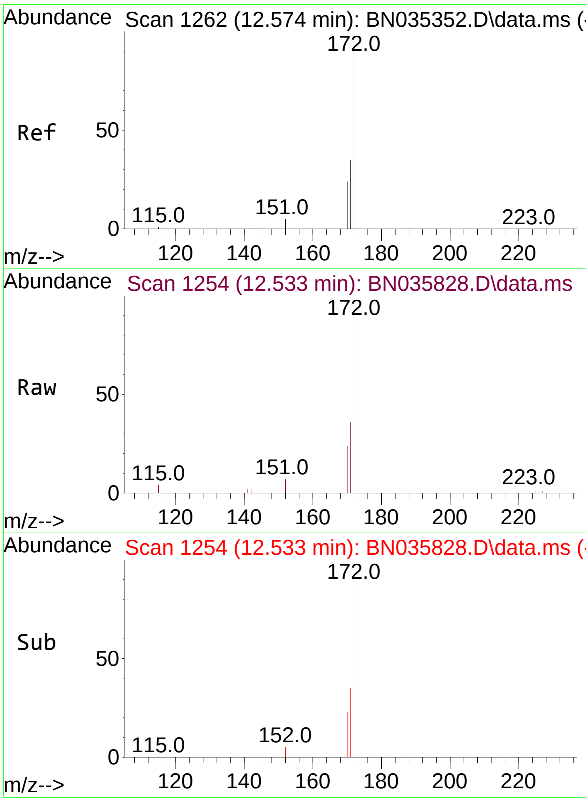
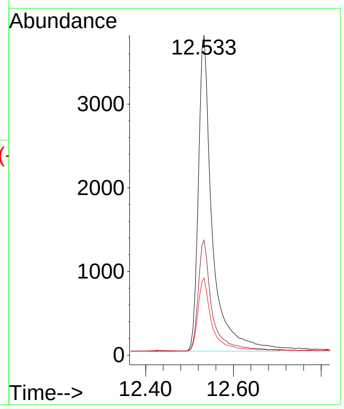
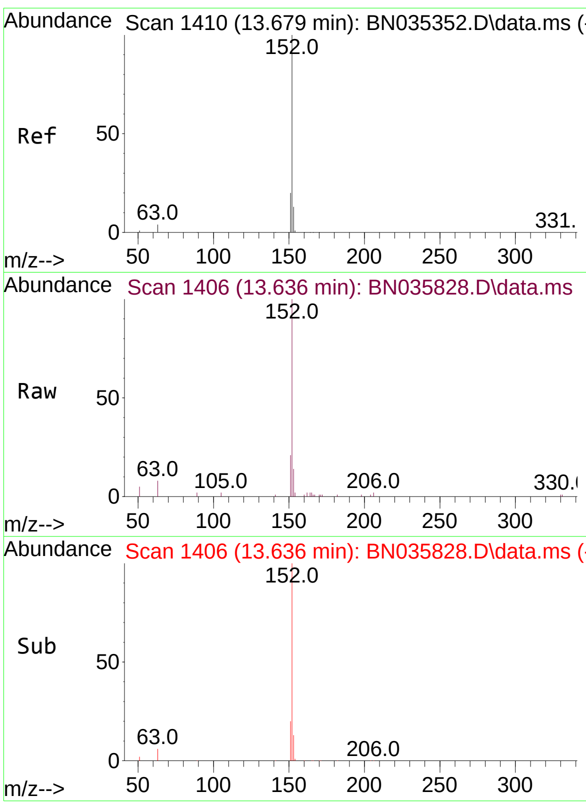


#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:172 Resp: 840

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8

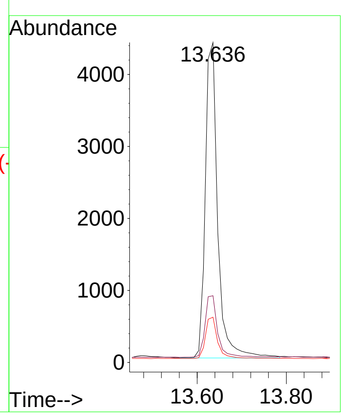




#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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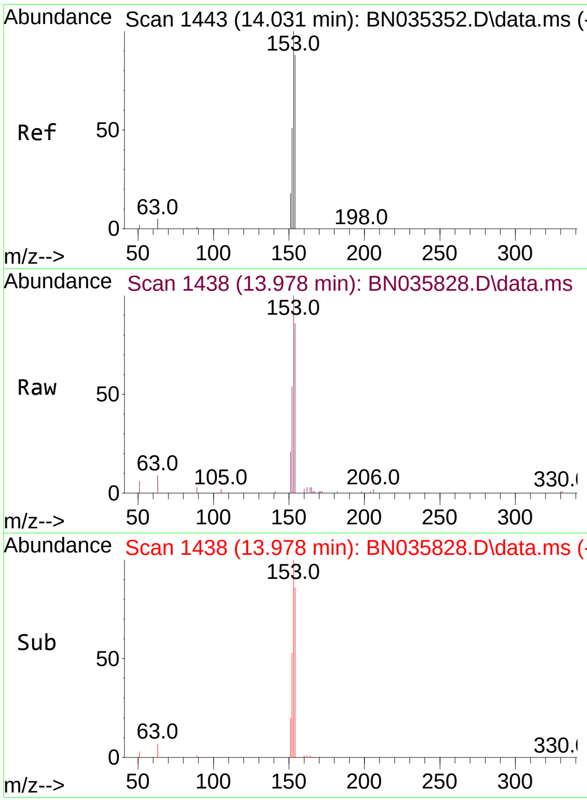
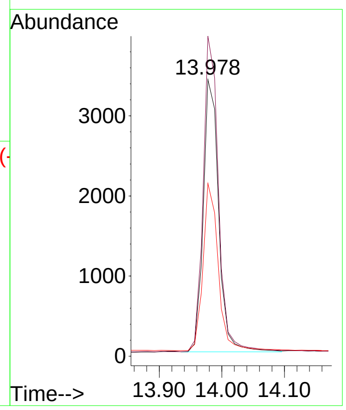
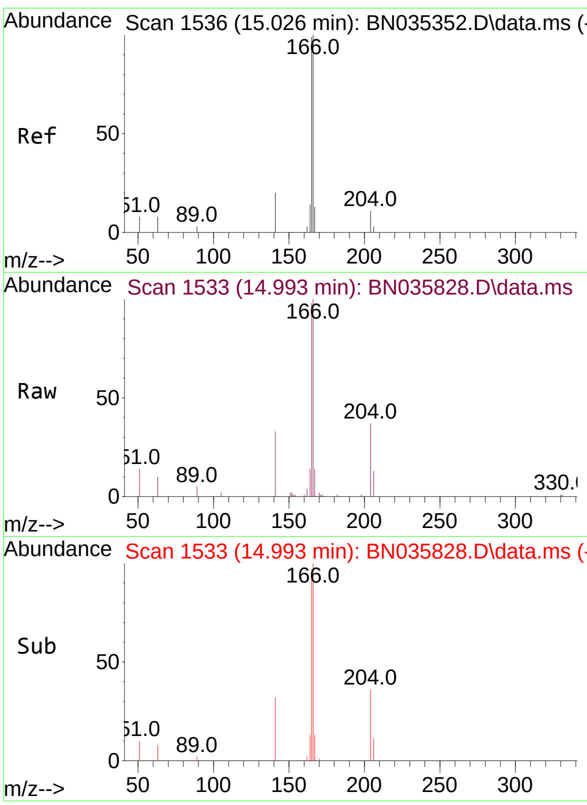


#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:154 Resp: 582

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6

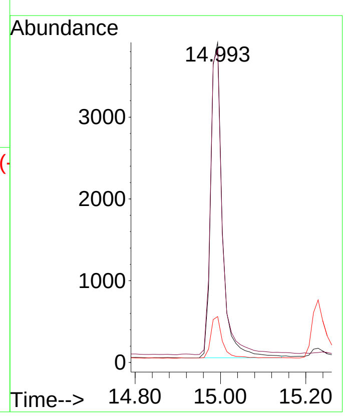


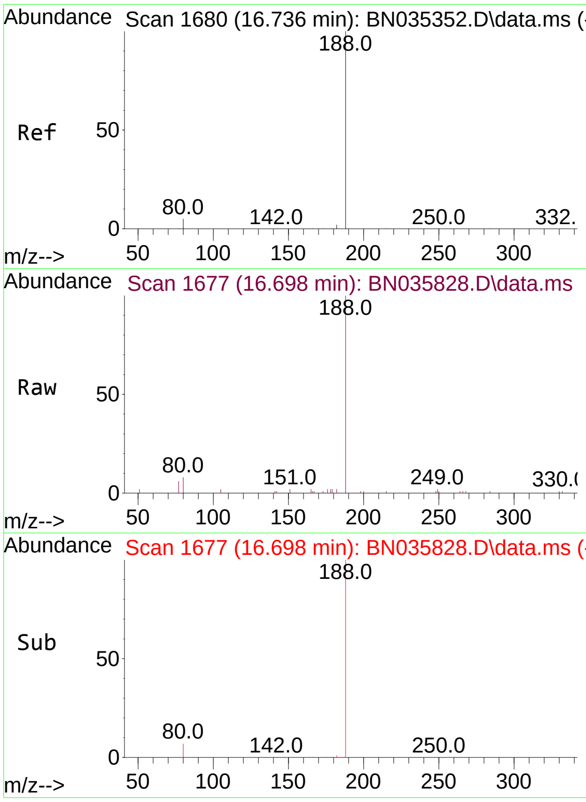


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 990

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

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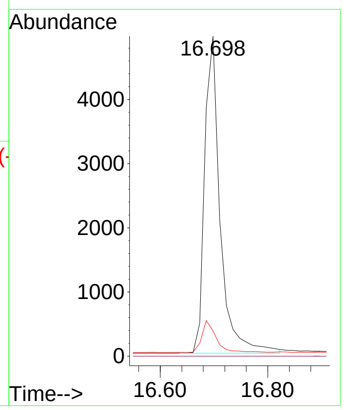
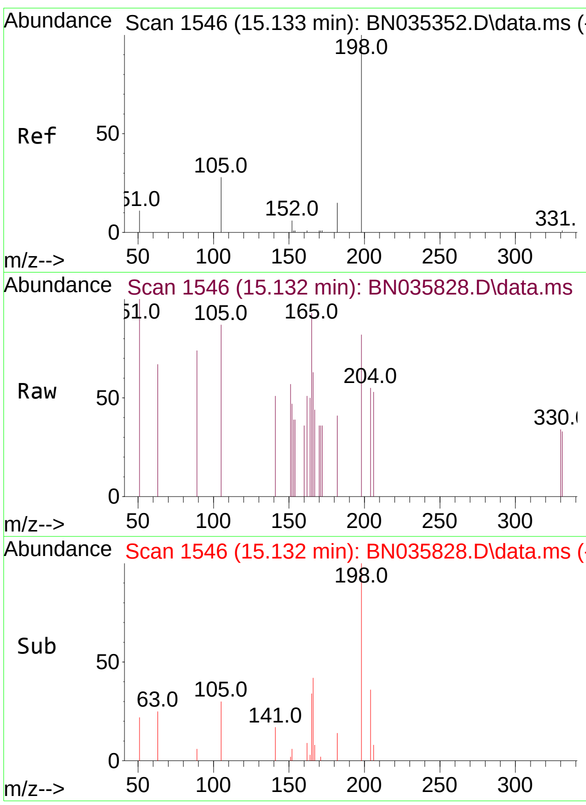
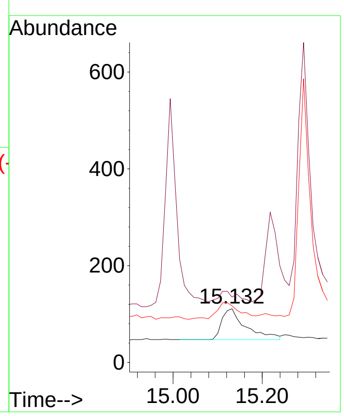




#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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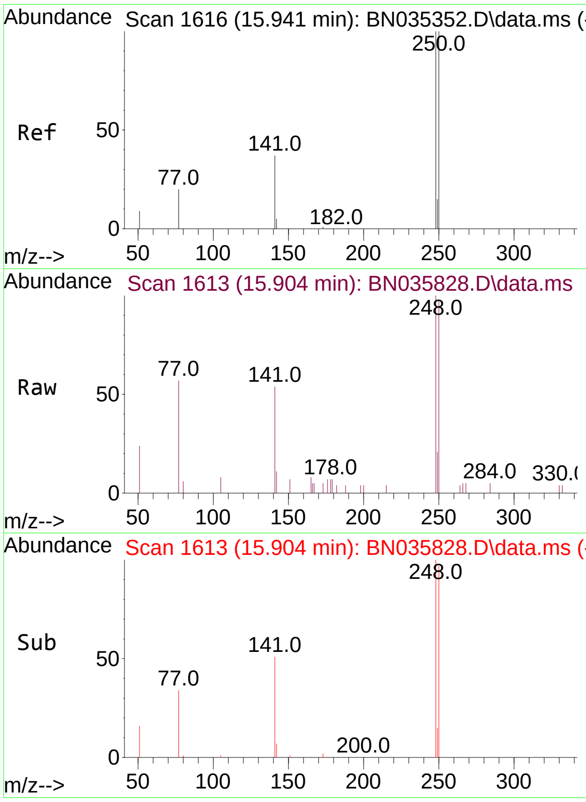
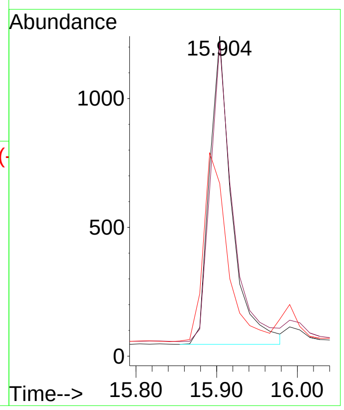
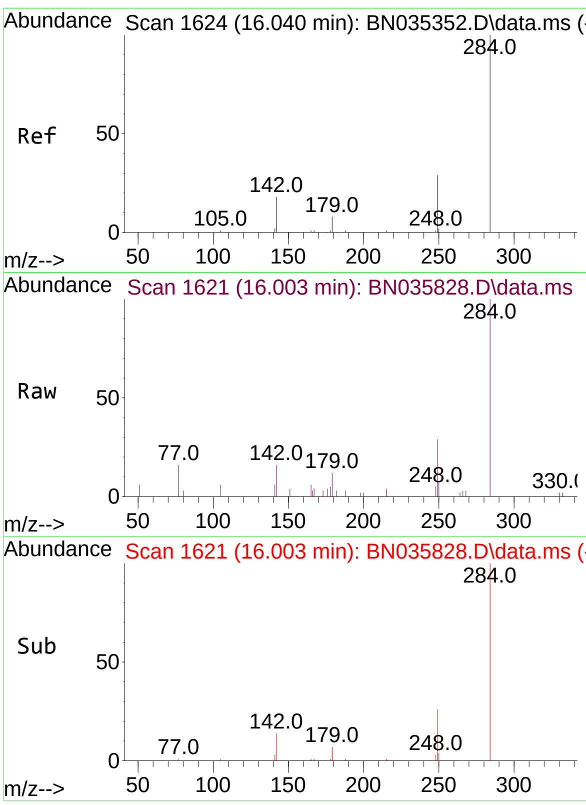


#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:248 Resp: 228

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

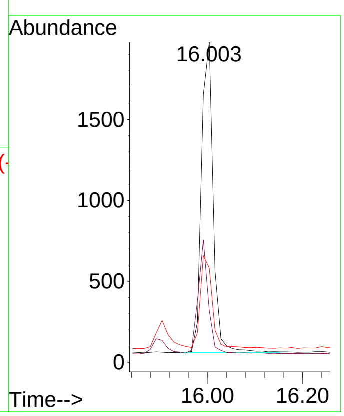




#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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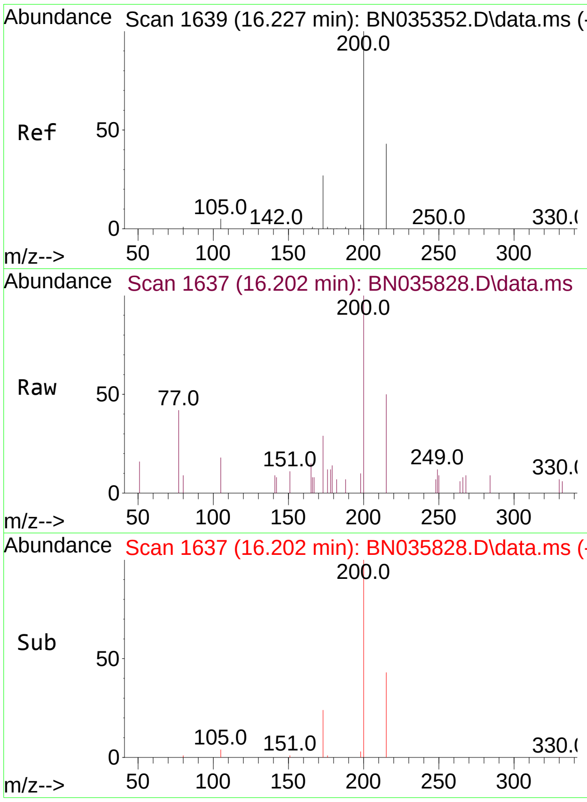
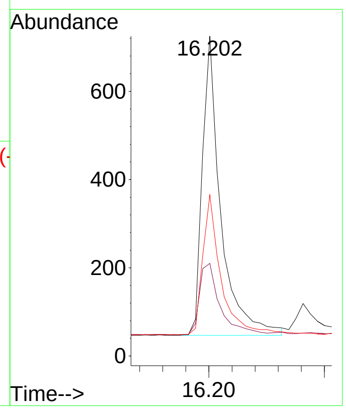
#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:200 Resp: 150

Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3

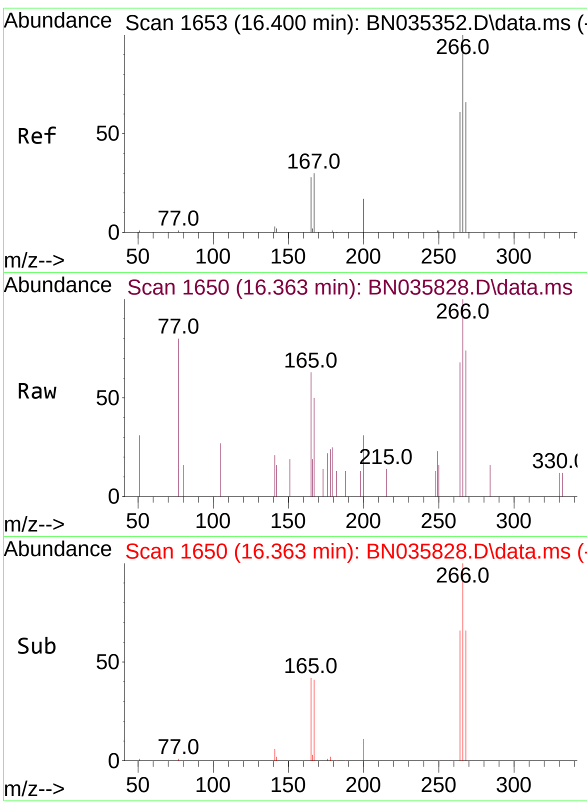


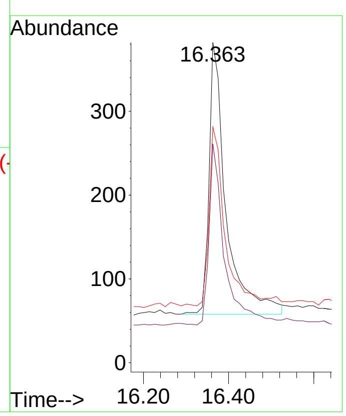


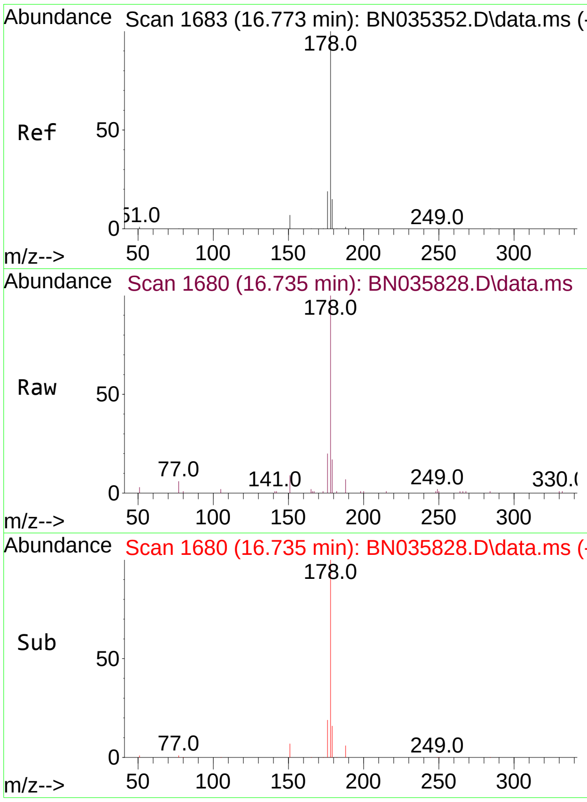
#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9







#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

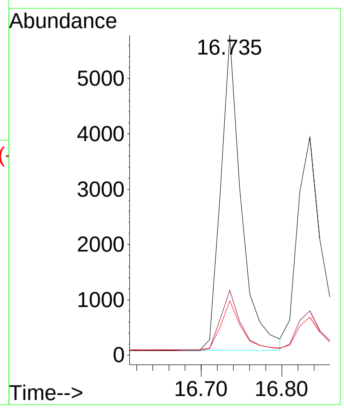
Tgt Ion:178 Resp: 1009

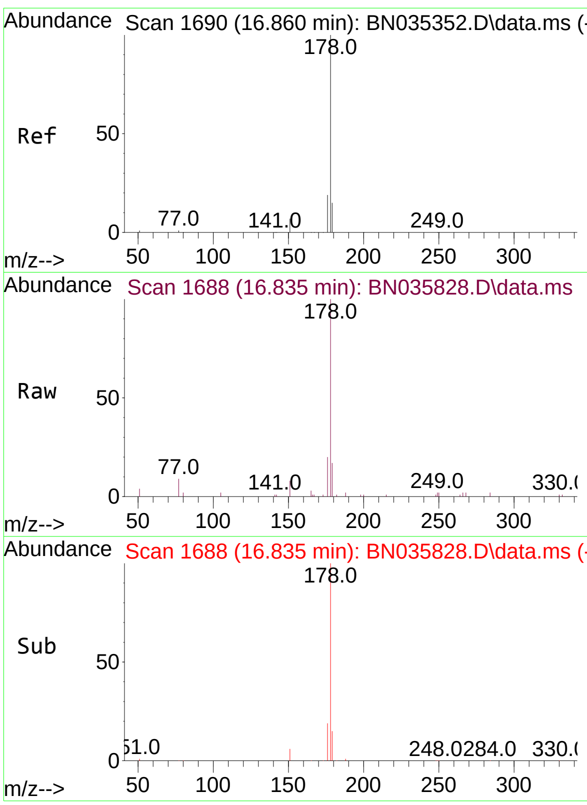
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

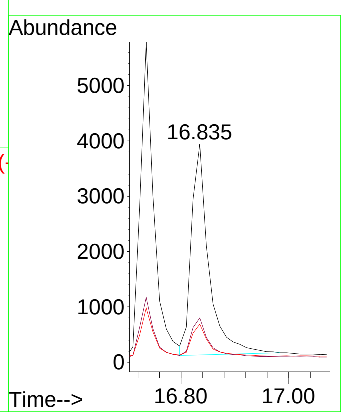




#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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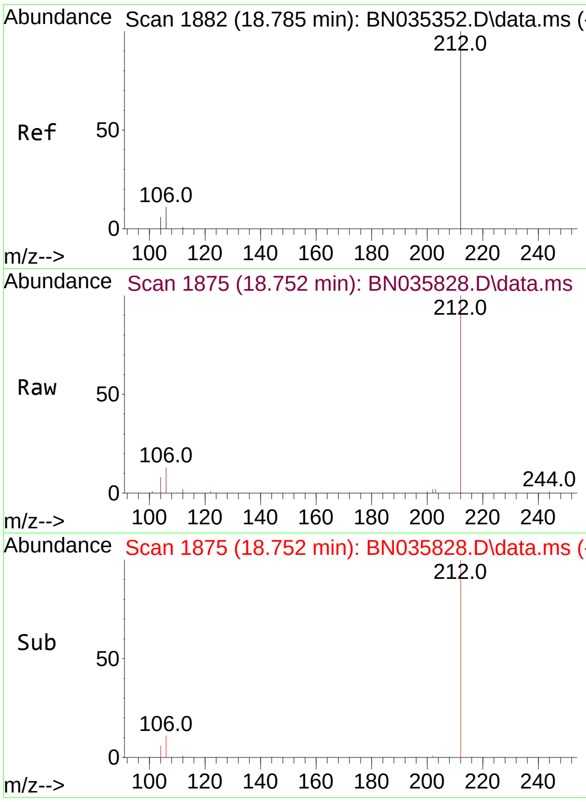
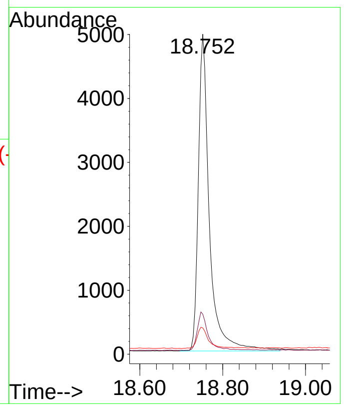
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

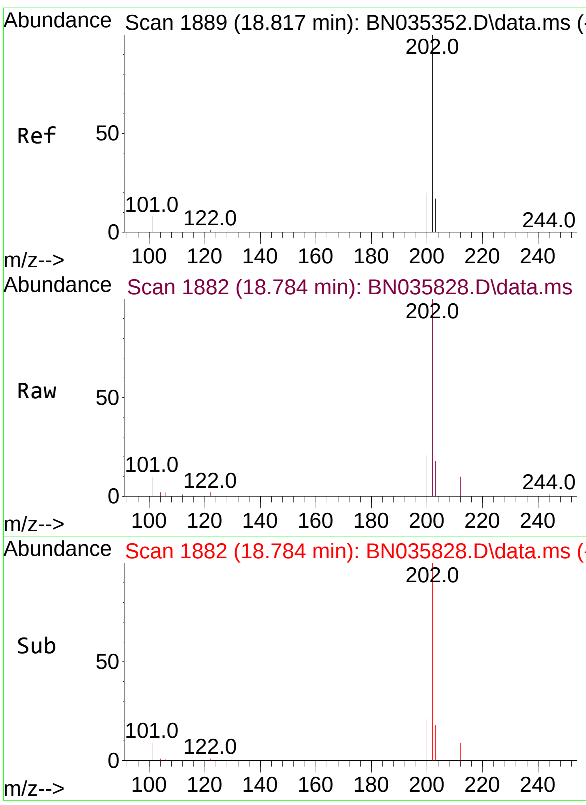


#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:212 Resp: 922

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9

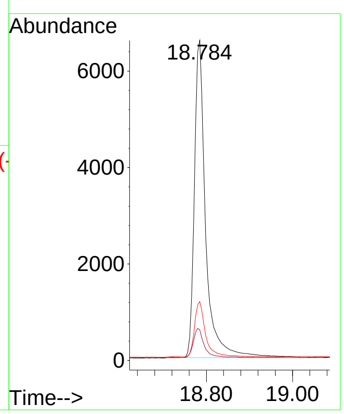


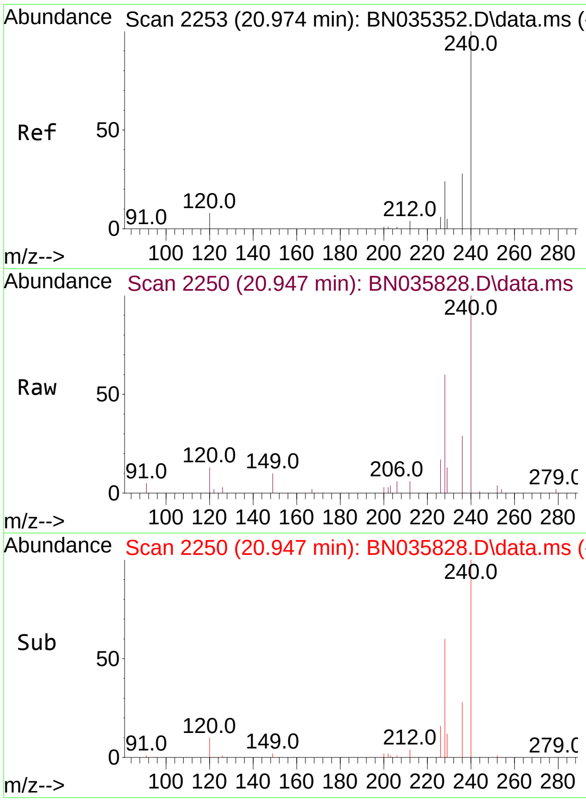


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 744

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9#
236	29.4	22.9	34.3

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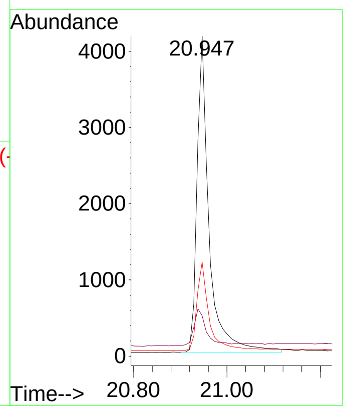
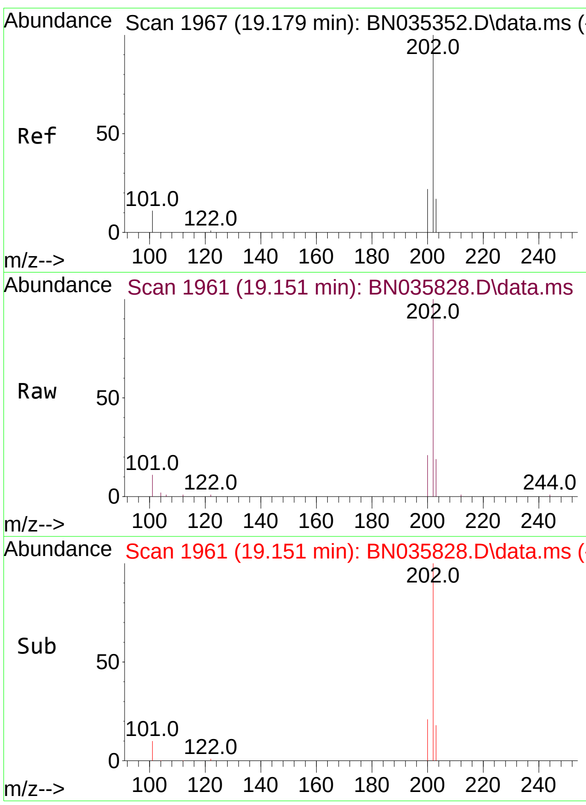
Supervised By :mohammad ahmed 12/26/2024

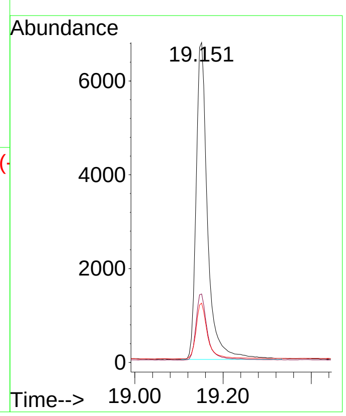


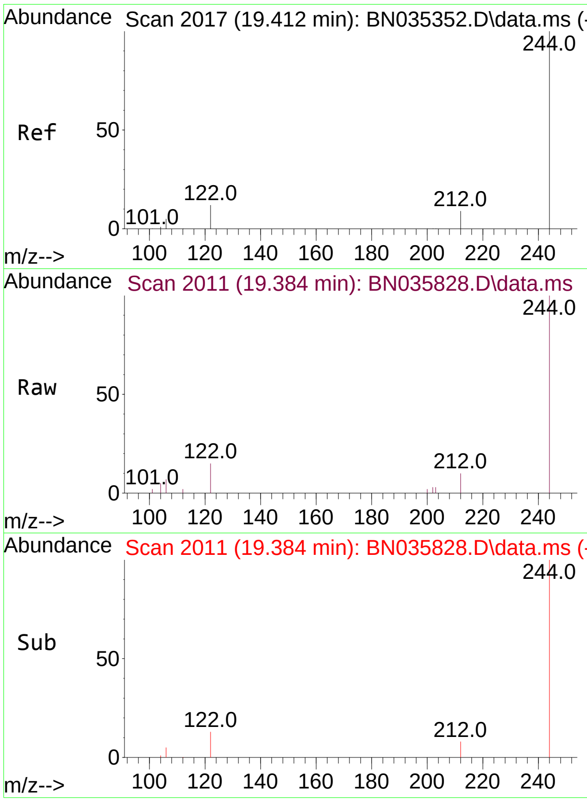


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5





#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 2(
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 602

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5

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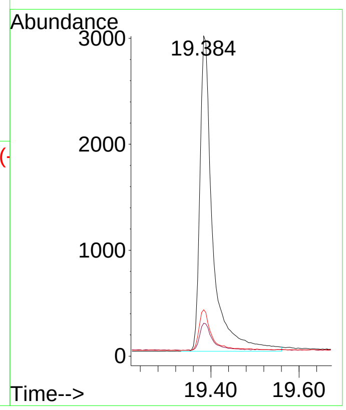
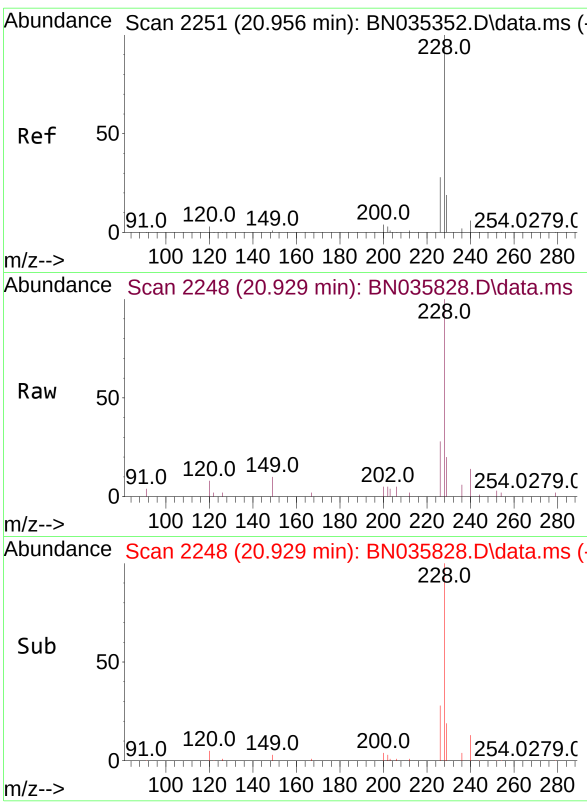
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

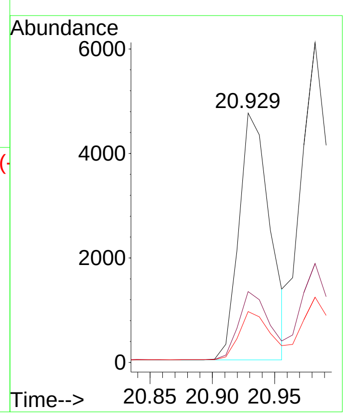




#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8



Sample Results: **BN035828.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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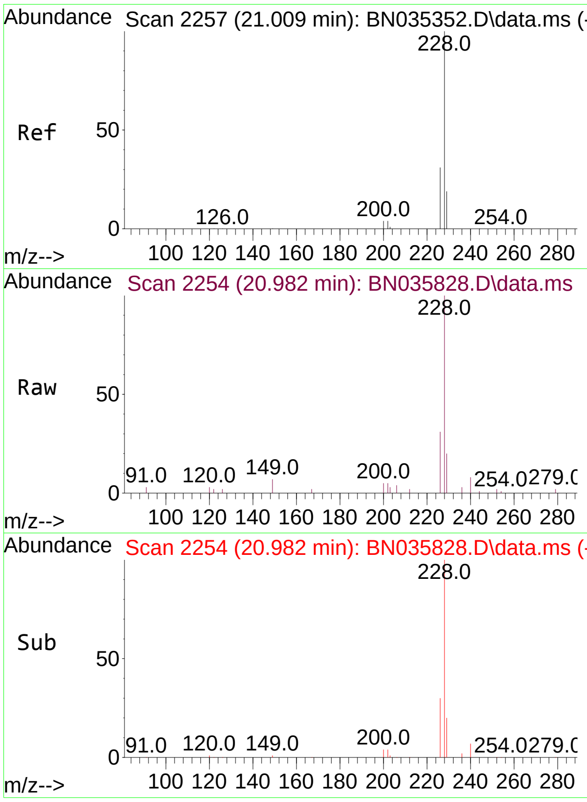
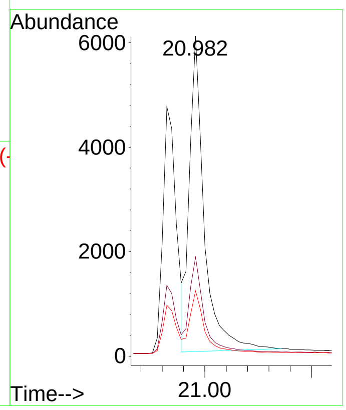
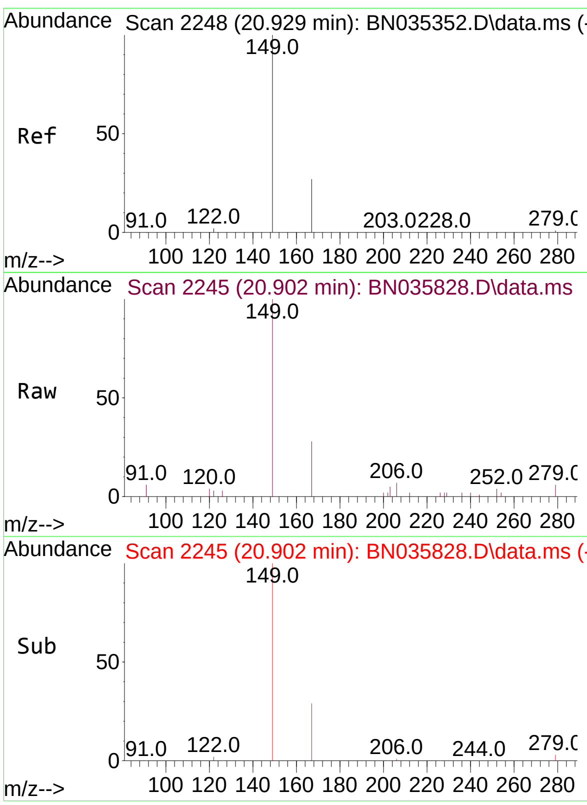
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

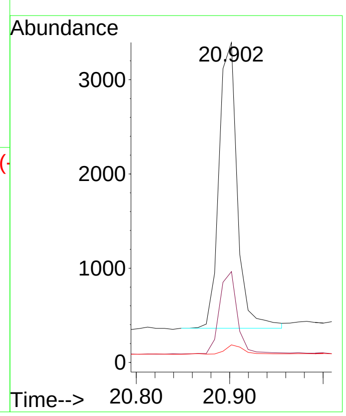



```
#33
Chrysene
Concen:    0.433 ng
RT:  20.982 min  Scan# 2
Delta R.T.   -0.009 min
Lab File:   BN035828.D
Acq: 24 Dec 2024  19:05

Tgt Ion:228 Resp:   1162
Ion  Ratio  Lower  Upper
228  100
226   31.0   24.6   37.0
229   20.4   15.9   23.9
```






```
#34
Bis(2-ethylhexyl)phthalate
Concen:    0.402 ng
RT:  20.902 min  Scan# 2245
Delta R.T.   -0.009 min
Lab File:   BN035828.D
Acq: 24 Dec 2024  19:05

Tgt Ion:149 Resp:    4135
Ion  Ratio  Lower  Upper
149  100
167   28.1   22.2   33.4
279    3.5    2.7    4.1
```



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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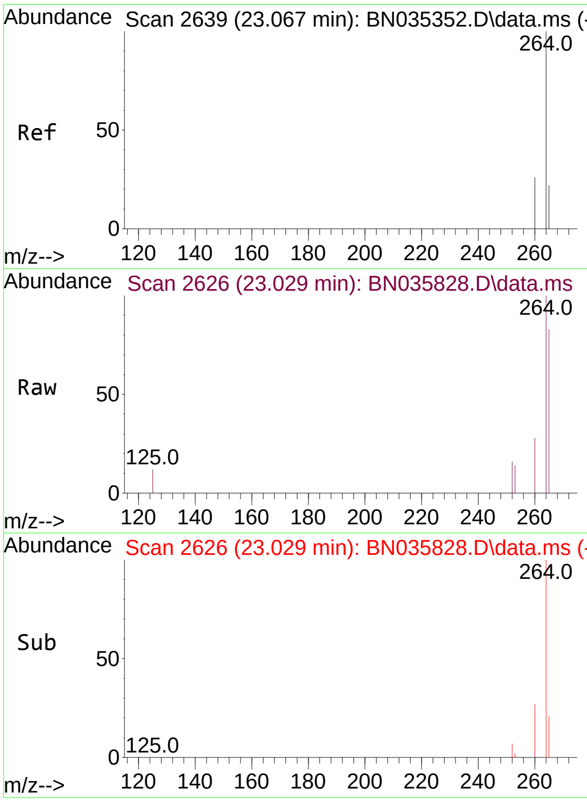
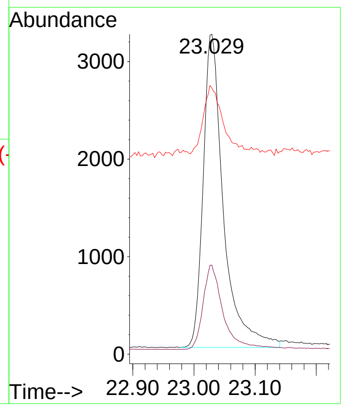
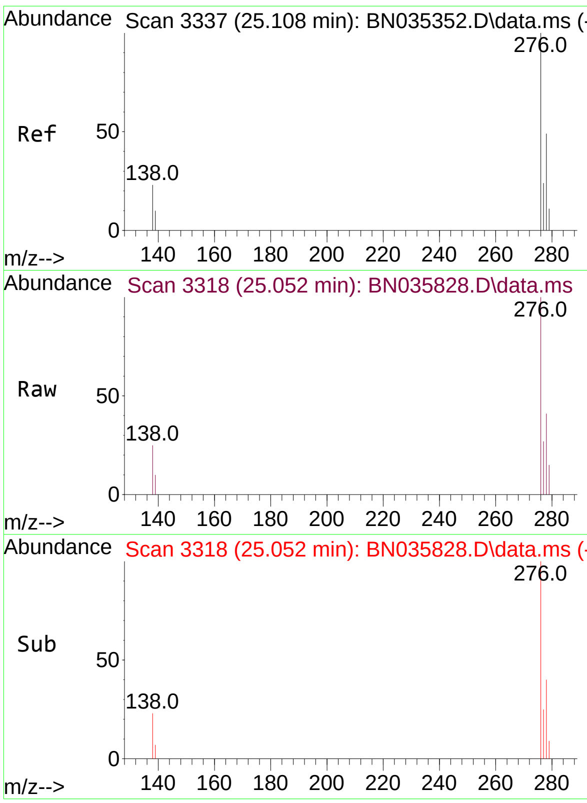
Supervised By :mohammad ahmed 12/26/2024

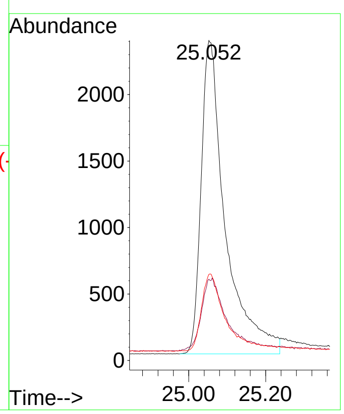


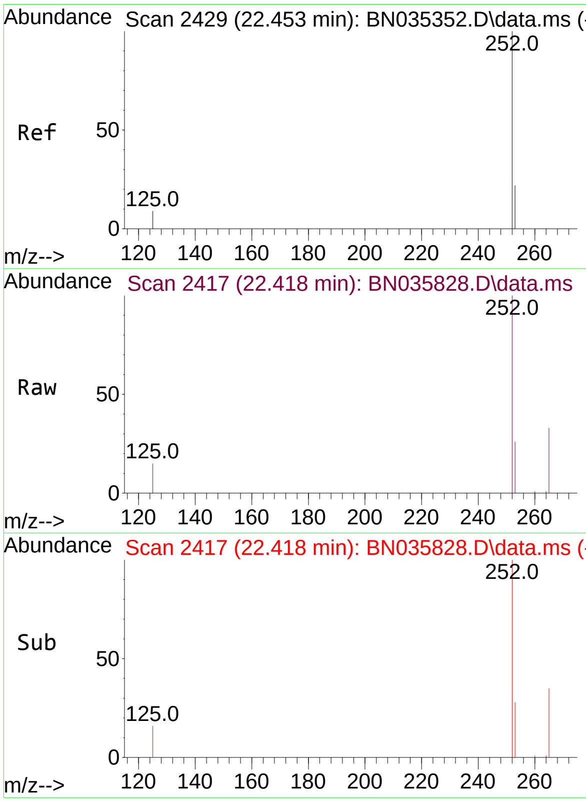

```
#35
Perylene-d12
Concen:    0.400 ng
RT:  23.029 min  Scan# 2(
Delta R.T.  -0.012 min
Lab File:   BN035828.D
Acq: 24 Dec 2024  19:05

Tgt Ion:264 Resp:    742(
Ion  Ratio  Lower  Upper
264  100
260   27.9   21.4   32.2
265   83.1   40.2   60.4#
```






```
#36
Indeno(1,2,3-cd)pyrene
Concen:    0.355 ng
RT:  25.052 min  Scan# 3318
Delta R.T.  -0.015 min
Lab File:   BN035828.D
Acq: 24 Dec 2024  19:05

Tgt Ion:276 Resp:    10298
Ion  Ratio  Lower  Upper
276  100
138    8.7   19.4   29.0#
277   22.9   19.8   29.6
```





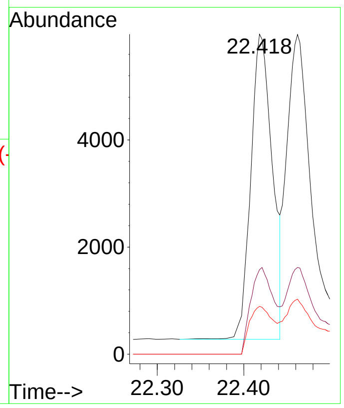
#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

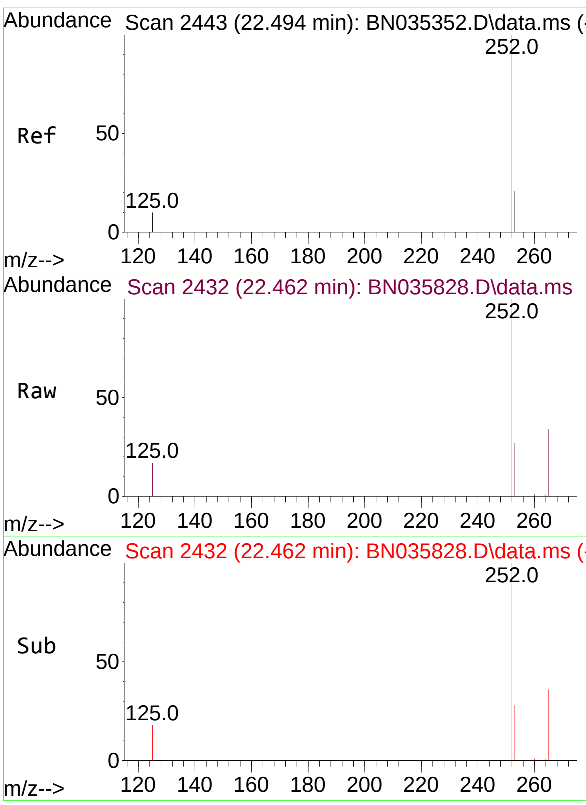
Tgt Ion:252 Resp: 1724(

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

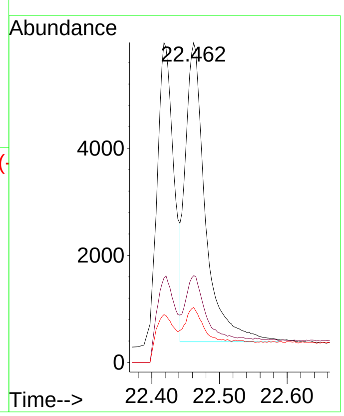


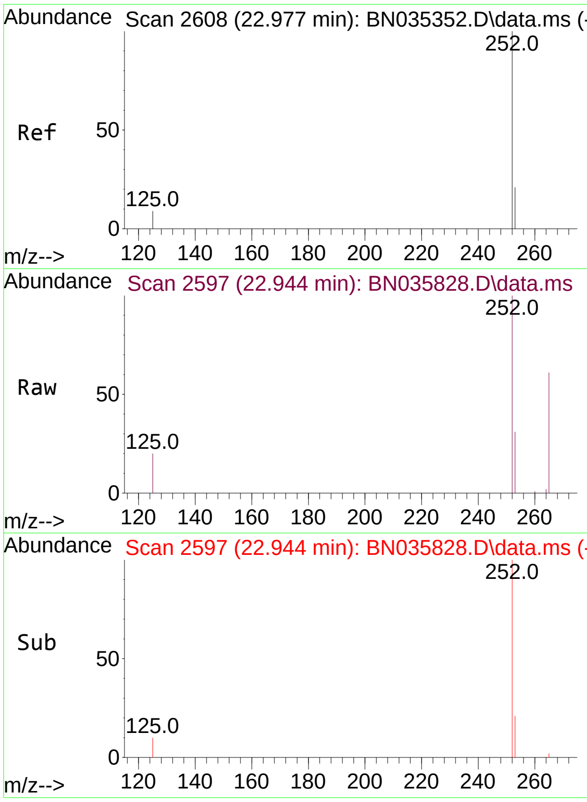


#38
Benzo(k)fluoranthene
Concen: 0.432 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 11542

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.5	29.3
125	17.2	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 833

Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4
125	20.2	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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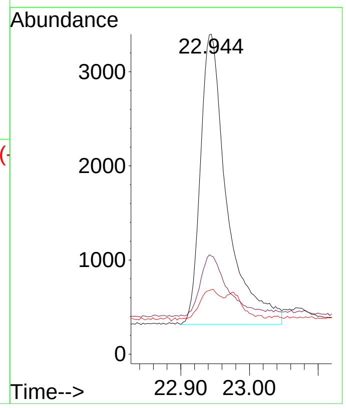
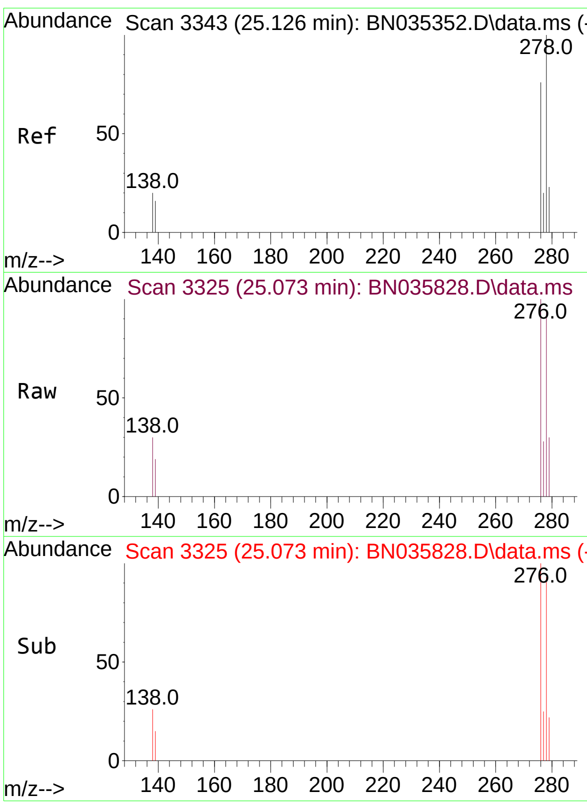
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

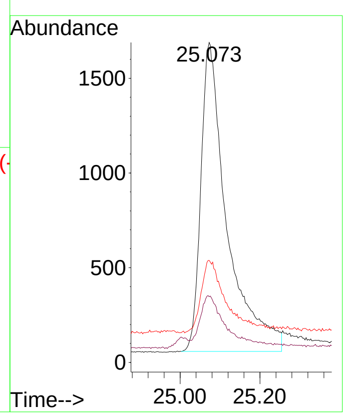


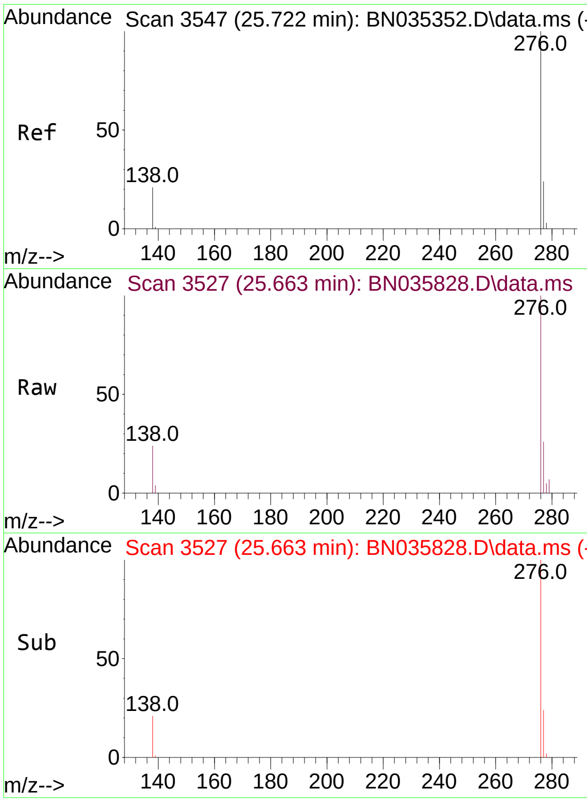


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#

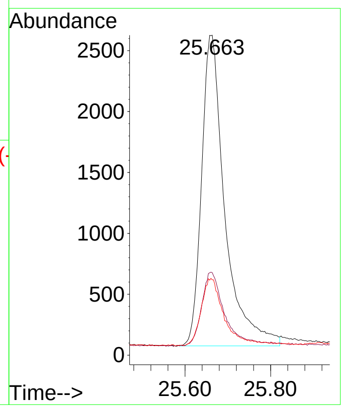




#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min Scan# 3!
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 965!

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035828.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	196#	-0.02
2		1,4-Dioxane	0.382	0.501	-31.2#	260#	0.00
3		n-Nitrosodimethylamine	0.319	0.306	4.1	184#	0.00
4	S	2-Fluorophenol	1.001	0.895	10.6	172#	-0.01
5	S	Phenol-d6	1.204	1.524	-26.6#	250#	-0.02
6		bis(2-Chloroethyl)ether	1.012	1.030	-1.8	203#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	188#	-0.02
8	S	Nitrobenzene-d5	0.244	0.319	-30.7#	256#	-0.01
9		Naphthalene	1.055	1.095	-3.8	197#	-0.01
10		Hexachlorobutadiene	0.243	0.283	-16.5	215#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.533	14.9	162#	-0.01
12		2-Methylnaphthalene	0.755	0.661	12.5	168#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.194	31.7#	107	-0.01
15	S	2-Fluorobiphenyl	1.512	1.565	-3.5	147	-0.01
16		Acenaphthylene	1.680	1.573	6.4	140	-0.01
17		Acenaphthene	1.115	1.083	2.9	141	-0.02
18		Fluorene	1.596	1.361	14.7	125	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.024	38.5#	71	0.01
21		4-Bromophenyl-phenylether	0.234	0.231	1.3	107	-0.01
22		Hexachlorobenzene	0.275	0.333	-21.1	127	-0.01
23		Atrazine	0.167	0.152	9.0	103	0.00
24		Pentachlorophenol	0.120	0.091	24.2	99	-0.01
25		Phenanthrene	1.099	1.019	7.3	100	-0.01
26		Anthracene	0.994	0.870	12.5	97	0.00
27	SURR	Fluoranthene-d10	1.134	0.931	17.9	90	0.00
28		Fluoranthene	1.481	1.209	18.4	89	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30		Pyrene	1.477	1.641	-11.1	87	0.00
31	S	Terphenyl-d14	0.789	0.809	-2.5	80	0.00
32		Benzo(a)anthracene	1.399	1.102	21.2	64	0.00
33		Chrysene	1.443	1.561	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.555	-0.4	84	0.00
35	I	Perylene-d12	1.000	1.000	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.387	11.3	62	-0.01
37		Benzo(b)fluoranthene	1.463	2.322	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	1.440	1.554	-7.9	76	0.00
39	C	Benzo(a)pyrene	1.205	1.123	6.8	67	0.00
40		Dibenzo(a,h)anthracene	1.234	0.998	19.1	57	0.00
41		Benzo(g,h,i)perylene	1.289	1.300	-0.9	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	196	-0.02
2		1,4-Dioxane	0.400	0.524	-31.0#	260	0.00
3		n-Nitrosodimethylamine	0.400	0.384	4.0	184	0.00
4	S	2-Fluorophenol	0.400	0.358	10.5	172	-0.01
5	S	Phenol-d6	0.400	0.506	-26.5#	250	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.407	-1.7	203	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	188	-0.02
8	S	Nitrobenzene-d5	0.400	0.522	-30.5#	256	-0.01
9		Naphthalene	0.400	0.415	-3.7	197	-0.01
10		Hexachlorobutadiene	0.400	0.465	-16.3	215	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.341	14.8	162	-0.01
12		2-Methylnaphthalene	0.400	0.350	12.5	168	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	141	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.273	31.8#	107	-0.01
15	S	2-Fluorobiphenyl	0.400	0.414	-3.5	147	-0.01
16		Acenaphthylene	0.400	0.375	6.3	140	-0.01
17		Acenaphthene	0.400	0.389	2.8	141	-0.02
18		Fluorene	0.400	0.341	14.8	125	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	104	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.245	38.8#	71	0.01
21		4-Bromophenyl-phenylether	0.400	0.395	1.3	107	-0.01
22		Hexachlorobenzene	0.400	0.484	-21.0	127	-0.01
23		Atrazine	0.400	0.365	8.8	103	0.00
24		Pentachlorophenol	0.400	0.303	24.3	99	-0.01
25		Phenanthrene	0.400	0.371	7.3	100	-0.01
26		Anthracene	0.400	0.350	12.5	97	0.00
27	SURR	Fluoranthene-d10	0.400	0.328	18.0	90	0.00
28		Fluoranthene	0.400	0.326	18.5	89	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30		Pyrene	0.400	0.445	-11.2	87	0.00
31	S	Terphenyl-d14	0.400	0.410	-2.5	80	0.00
32		Benzo(a)anthracene	0.400	0.315	21.3	64	0.00
33		Chrysene	0.400	0.433	-8.2	85	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.402	-0.5	84	0.00
35	I	Perylene-d12	0.400	0.400	0.0	68	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.355	11.3	62	-0.01
37		Benzo(b)fluoranthene	0.400	0.635	-58.7#	121	-0.01
38		Benzo(k)fluoranthene	0.400	0.432	-8.0	76	0.00
39	C	Benzo(a)pyrene	0.400	0.373	6.8	67	0.00
40		Dibenzo(a,h)anthracene	0.400	0.323	19.3	57	0.00
41		Benzo(g,h,i)perylene	0.400	0.403	-0.8	71	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 09:58

Lab File ID: BN035845.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	0.545		-12.9	20.0
Fluoranthene-d10	1.134	0.991		-12.6	20.0
2-Fluorophenol	1.001	1.006		0.5	20.0
Phenol-d6	1.204	1.112		-7.6	20.0
Nitrobenzene-d5	0.244	0.298		22.1	20.0
2-Fluorobiphenyl	1.512	1.504		-0.5	20.0
2,4,6-Tribromophenol	0.284	0.248		-12.7	20.0
Terphenyl-d14	0.789	0.784		-0.6	20.0
1,4-Dioxane	0.382	0.405		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report (QT Reviewed)

Sample Results: **BN035845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
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 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9932	0.400	ng	#-0.02
35) Perylene-d12	23.021	264	10817	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3777	0.402	ng	-0.01
5) Phenol-d6	6.470	99	4175	0.369	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2776m	0.488	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348	ng	-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350	ng	-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398	ng	-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350	ng	-0.02
31) Terphenyl-d14	19.375	244	7783	0.397	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423	ng	97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409	ng	# 82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379	ng	99
9) Naphthalene	10.041	128	9440	0.384	ng	100
10) Hexachlorobutadiene	10.340	225	2352	0.415	ng	# 99
12) 2-Methylnaphthalene	11.676	142	5939	0.337	ng	98
16) Acenaphthylene	13.625	152	8340	0.369	ng	100
17) Acenaphthene	13.978	154	5695	0.379	ng	99
18) Fluorene	14.983	166	7523	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475	ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371	ng	# 87
22) Hexachlorobenzene	15.991	284	3482	0.450	ng	95
23) Atrazine	16.189	200	1843	0.393	ng	97
24) Pentachlorophenol	16.363	266	1383	0.411	ng	87
25) Phenanthrene	16.723	178	11602	0.375	ng	100
26) Anthracene	16.822	178	10005	0.358	ng	100
28) Fluoranthene	18.775	202	14489	0.347	ng	98
30) Pyrene	19.142	202	15278	0.417	ng	100
32) Benzo(a)anthracene	20.920	228	12798	0.368	ng	100
33) Chrysene	20.974	228	14214	0.397	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458	ng	100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377	ng	97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494	ng	# 96
38) Benzo(k)fluoranthene	22.453	252	16469m	0.423	ng	
39) Benzo(a)pyrene	22.933	252	12458	0.382	ng	# 92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380	ng	96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419	ng	98

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

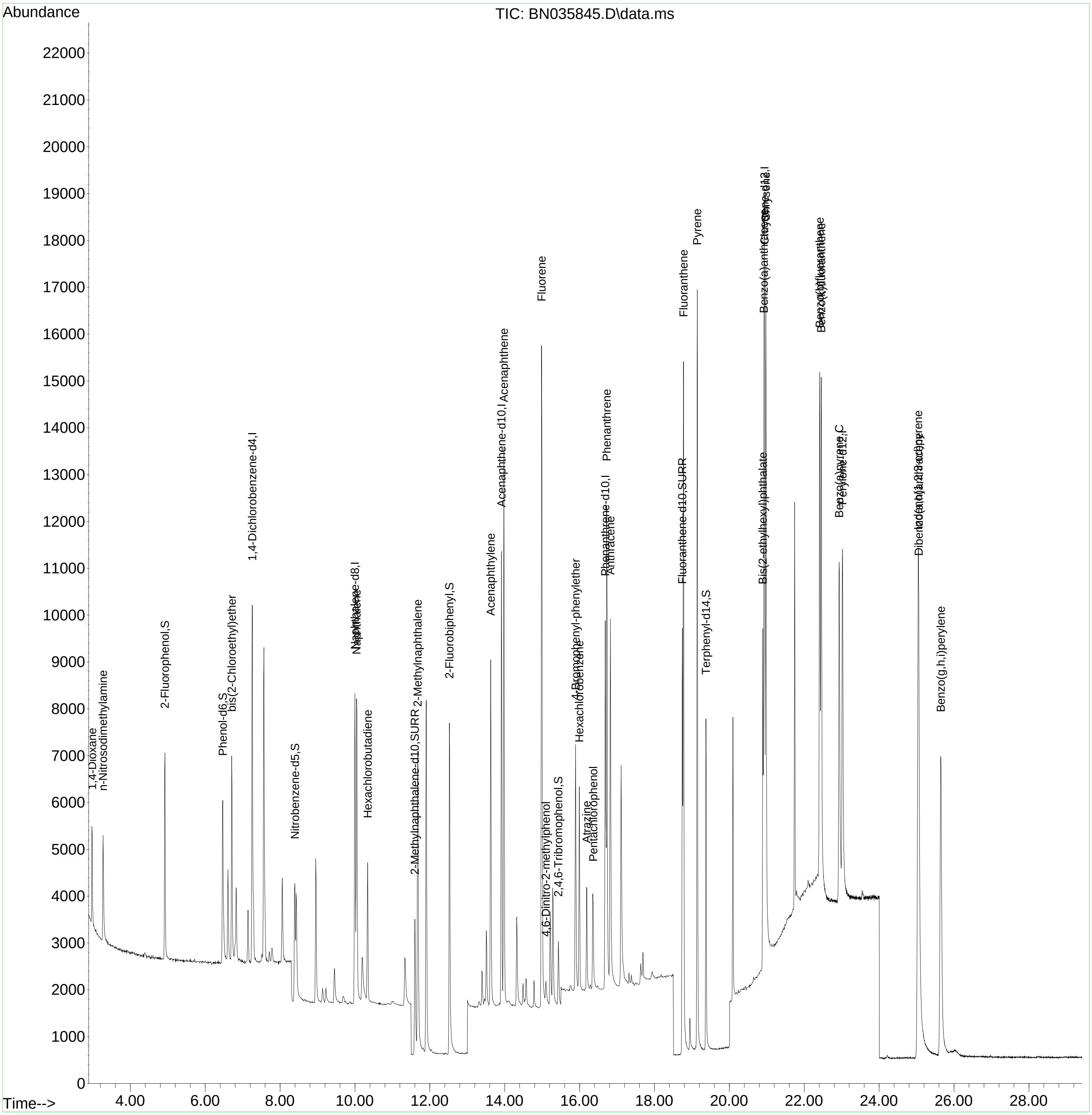
Sample Results: **BN035845.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On    : 26 Dec 2024  09:58
Operator  : RC/JU
Sample    : SSTDCCC0.4
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

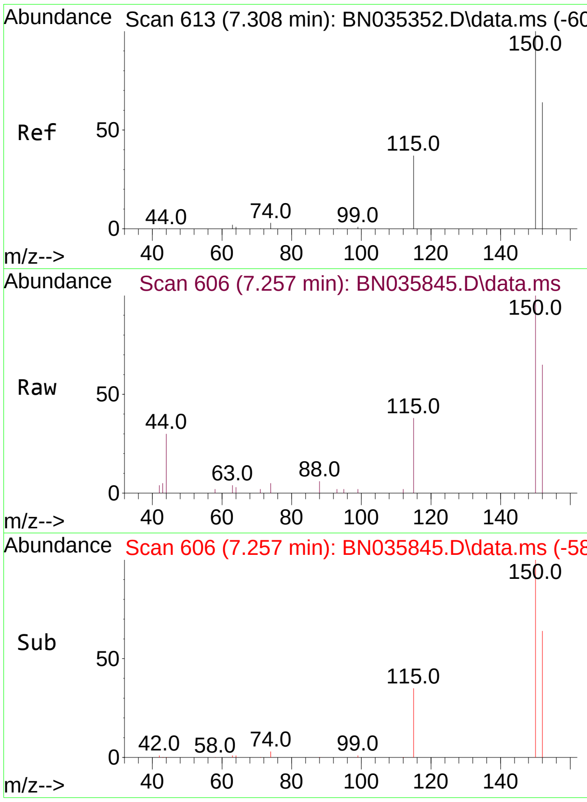


Sample Results: **BN035845.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

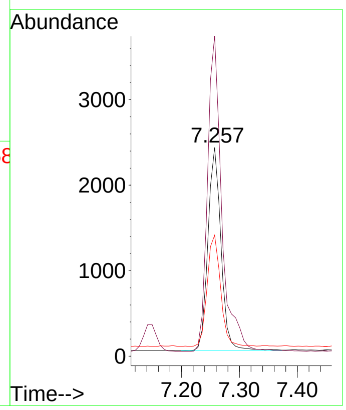
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

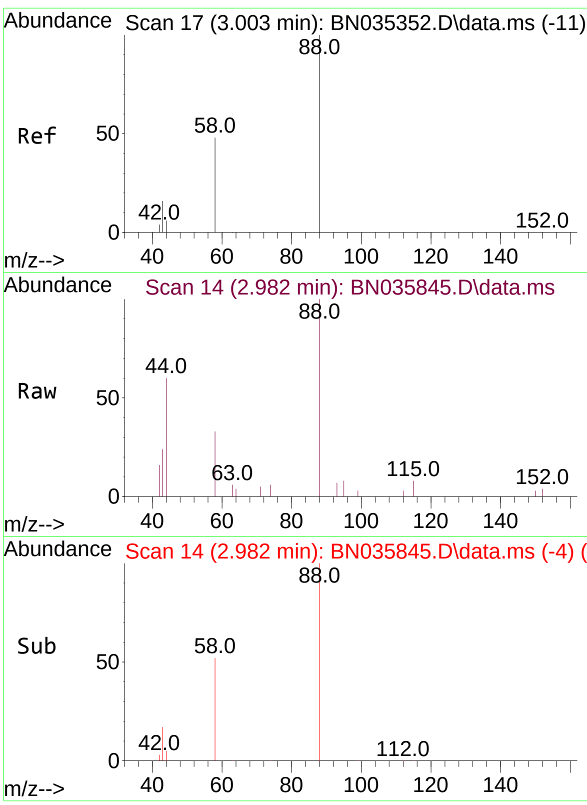


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 3755

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4

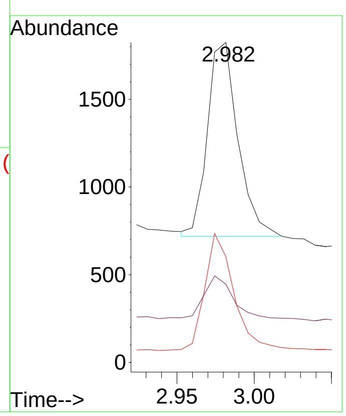




#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 88 Resp: 1520

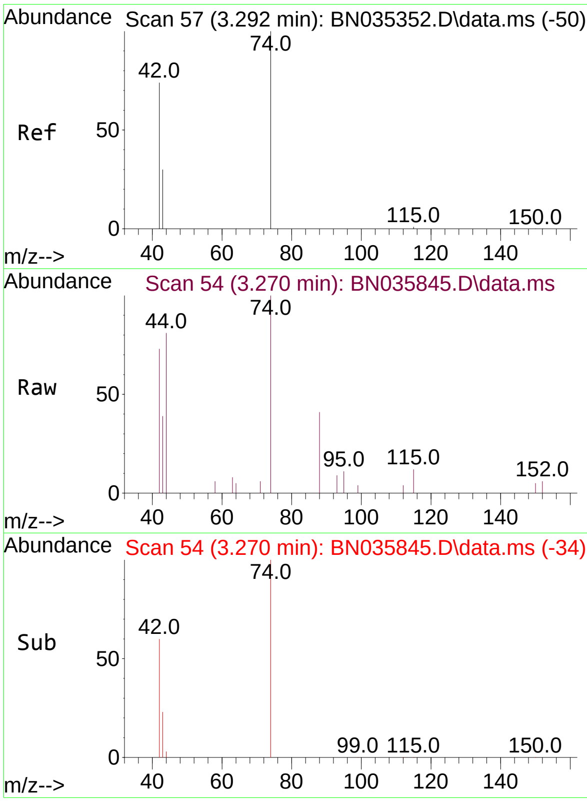
Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7



Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

Manual Integrations APPROVED

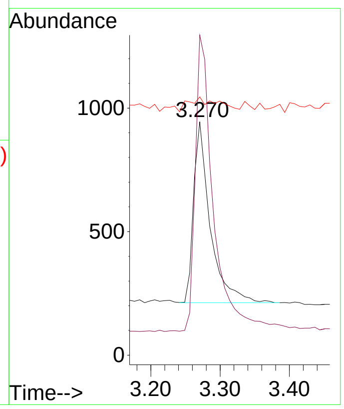
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

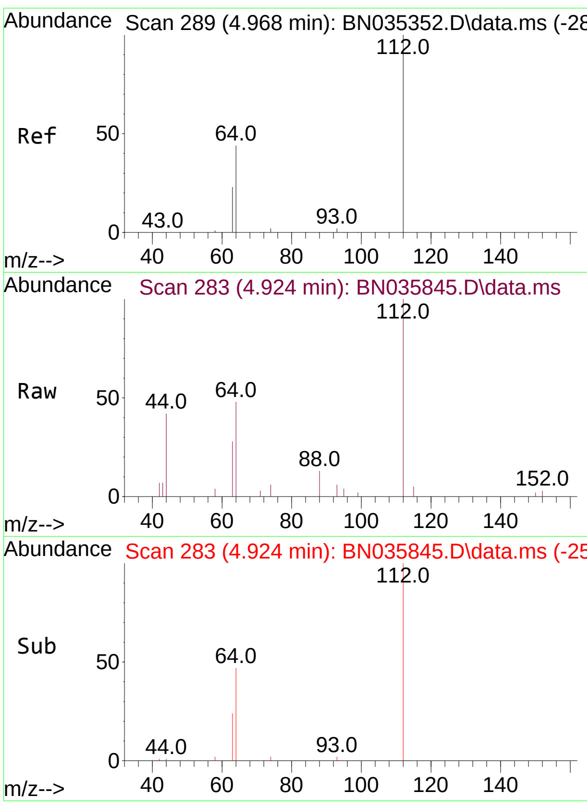


#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 42 Resp: 122

Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4

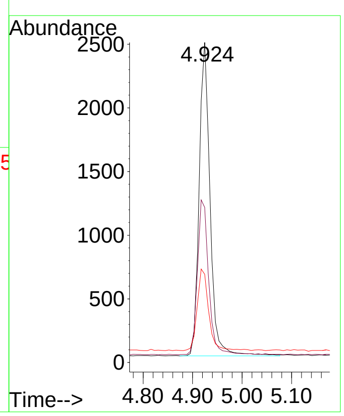




#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

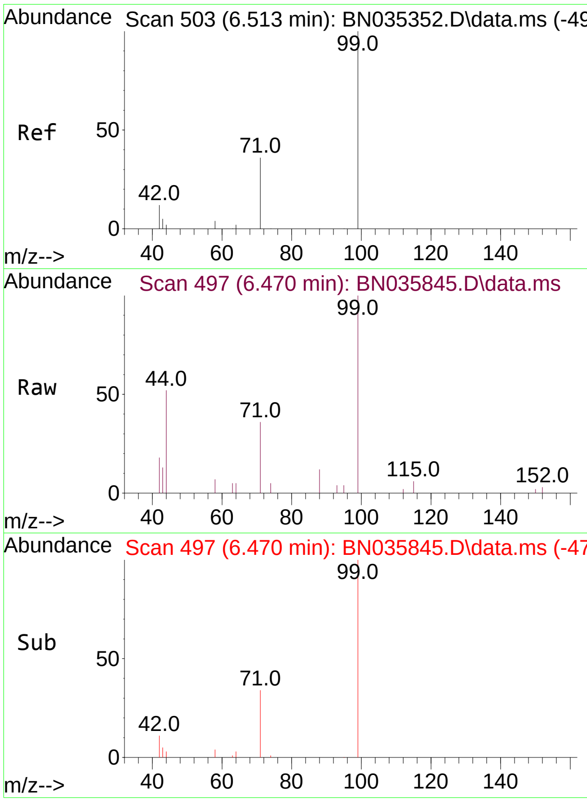
Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6



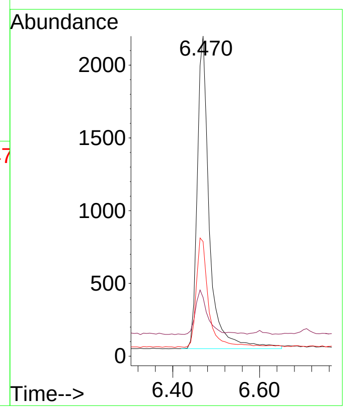
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

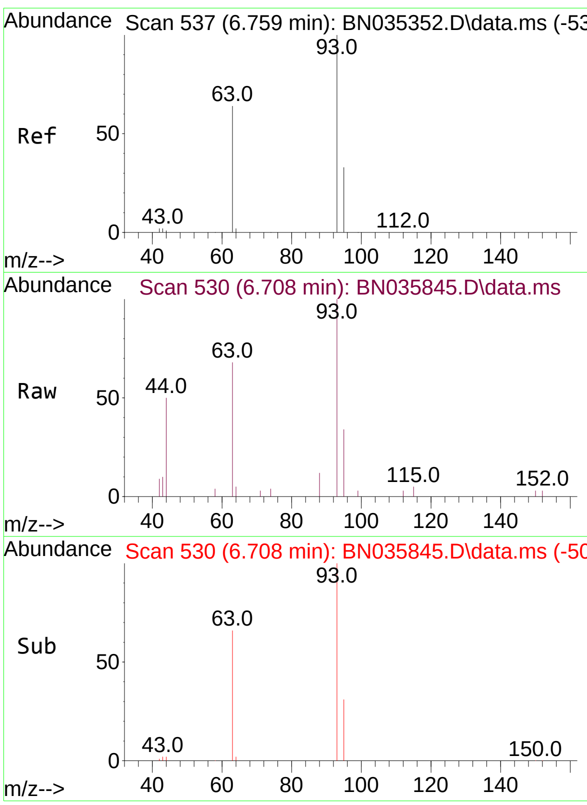
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

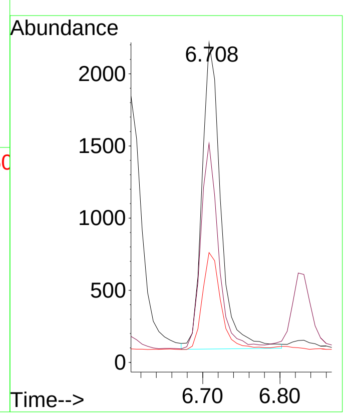



```
#5
Phenol-d6
Concen:    0.369 ng
RT:   6.470 min  Scan# 4
Delta R.T.   -0.022 min
Lab File:    BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion: 99 Resp:    417
Ion   Ratio  Lower  Upper
 99   100
 42    14.0   11.4   17.2
 71    35.3   29.3   43.9
```





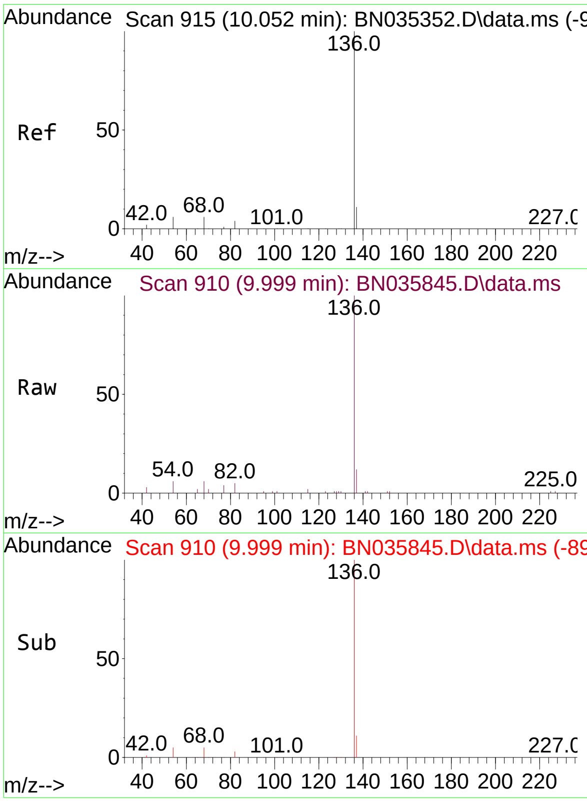

```
#6
bis(2-Chloroethyl)ether
Concen:    0.379 ng
RT:   6.708 min  Scan# 530
Delta R.T.   -0.022 min
Lab File:    BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion: 93 Resp:    3599
Ion   Ratio  Lower  Upper
 93   100
 63    63.3   50.4   75.6
 95    31.3   25.7   38.5
```



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

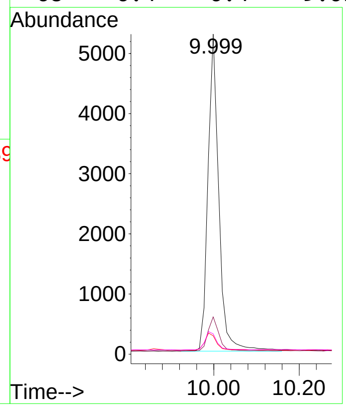
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

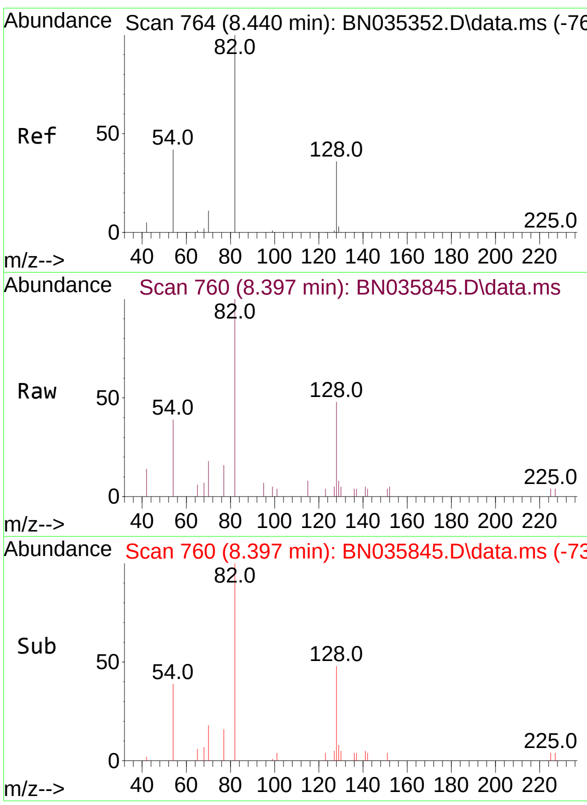


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:136 Resp: 932

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#

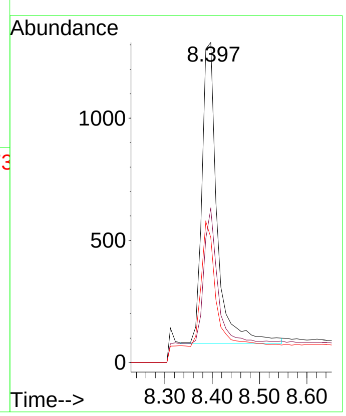




#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 2776

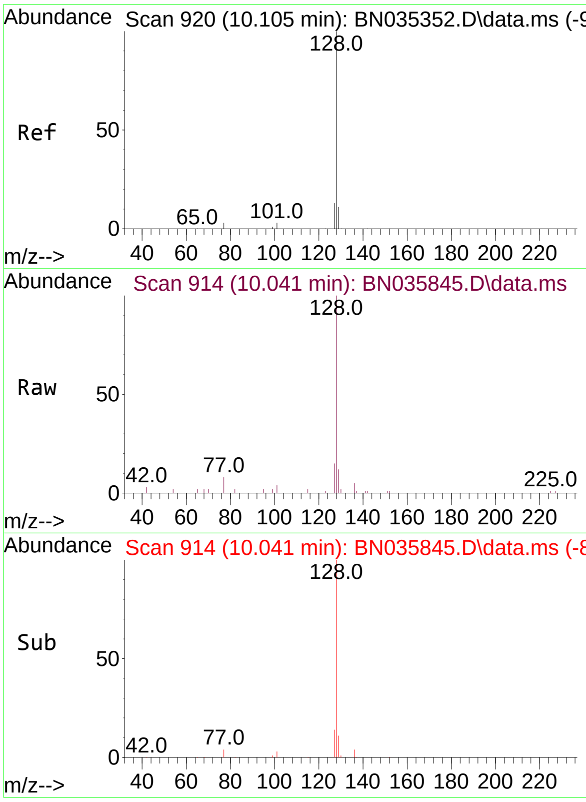
Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

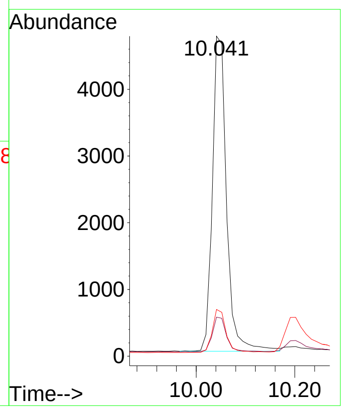
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

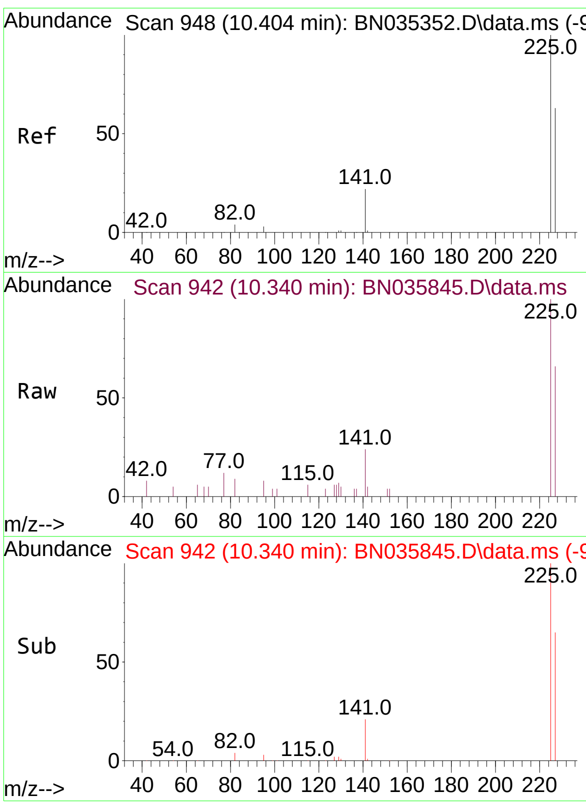


#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:128 Resp: 944

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

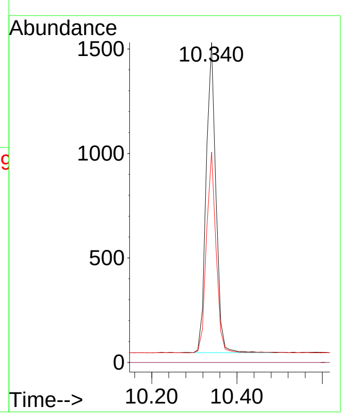


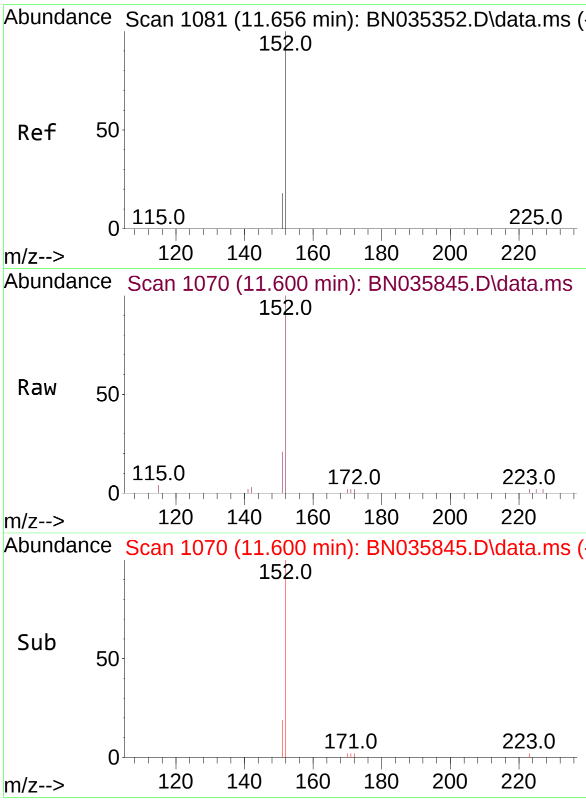


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 508

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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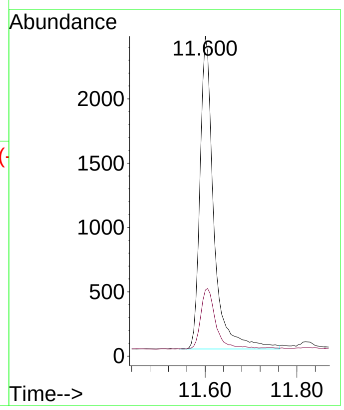
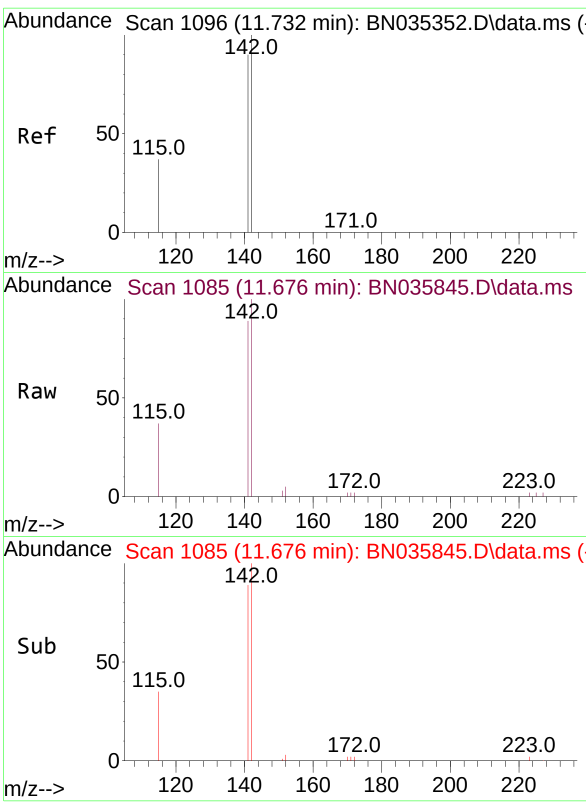
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

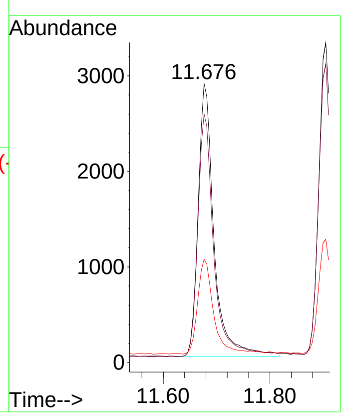


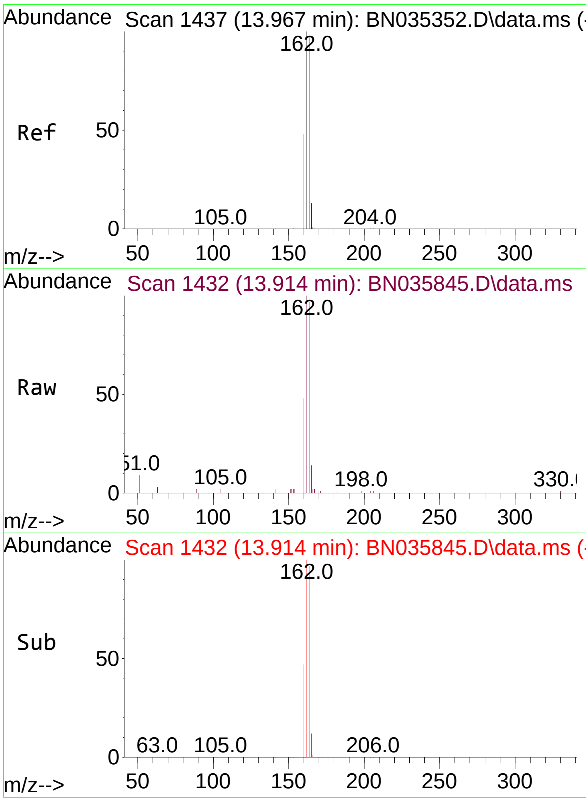


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min   Scan# 14
Delta R.T.   -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024   09:58

Tgt Ion:164 Resp: 538

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1

Instrument :
BNA_N
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SSTDCCC0.4

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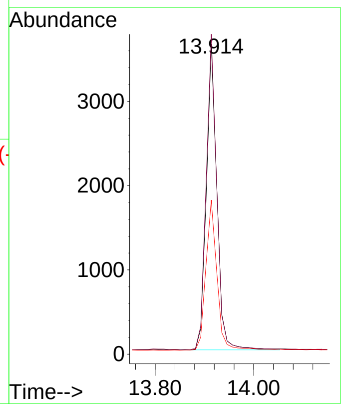
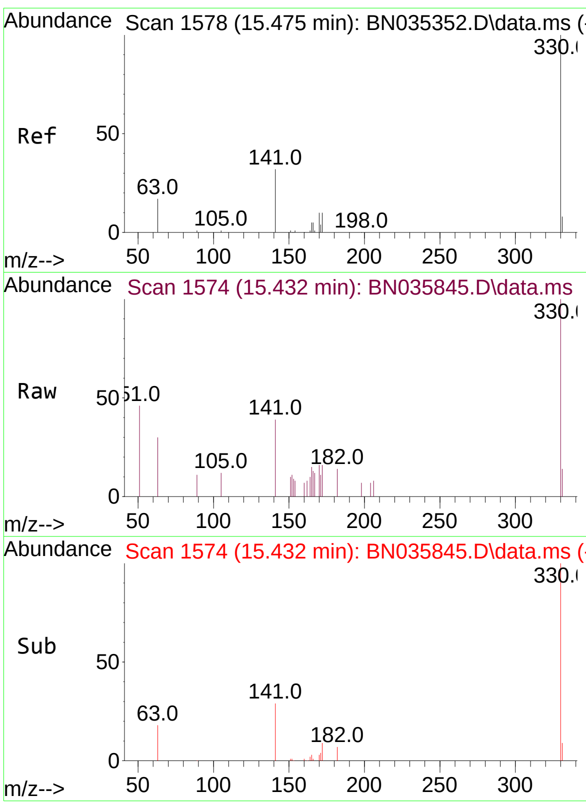
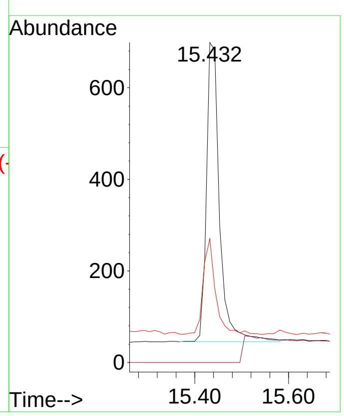


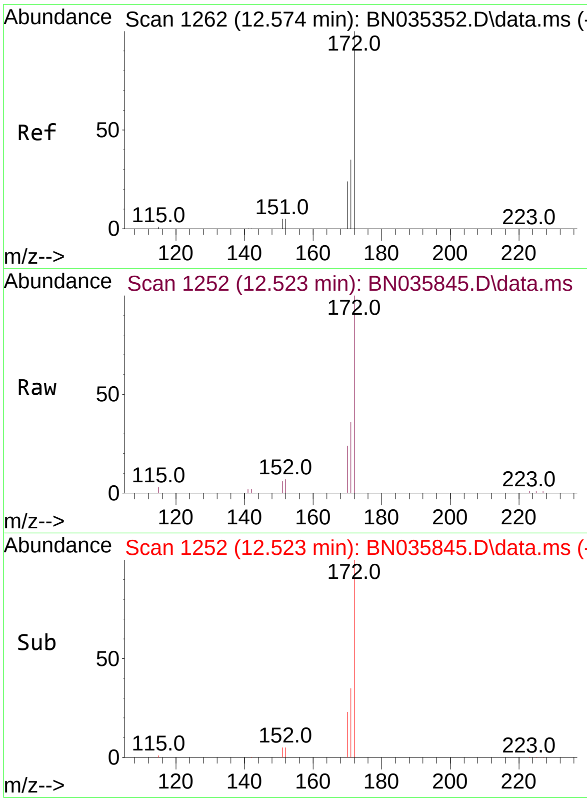


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min   Scan# 1574
Delta R.T.   -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024   09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 810

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

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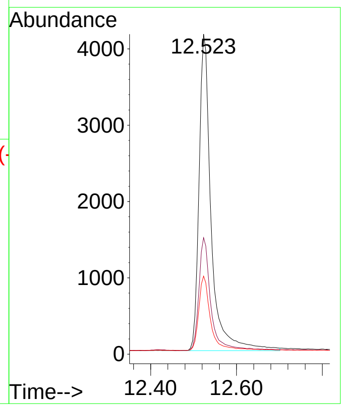
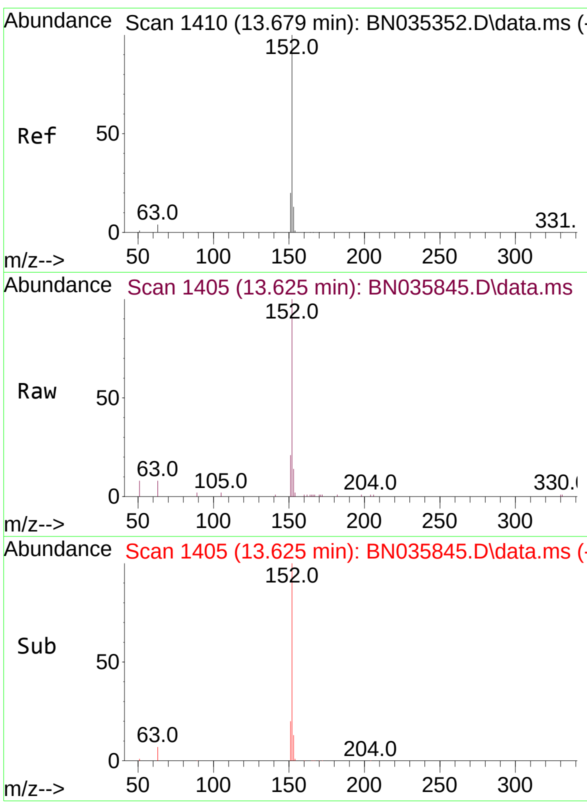
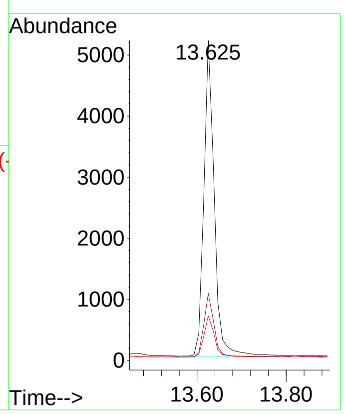




#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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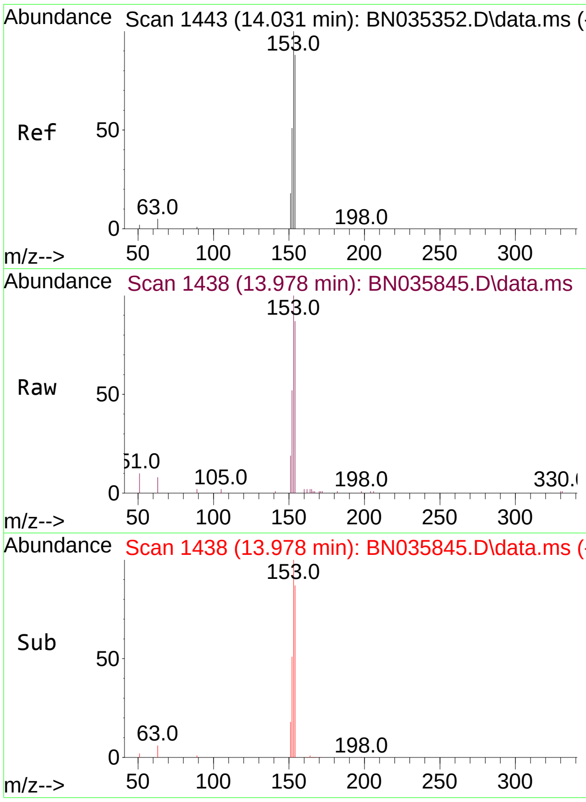
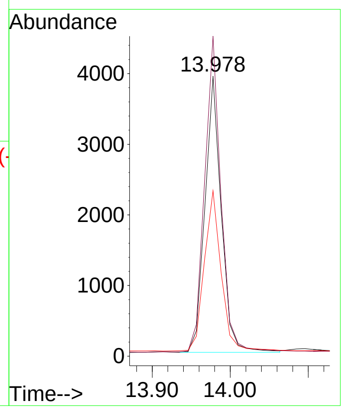
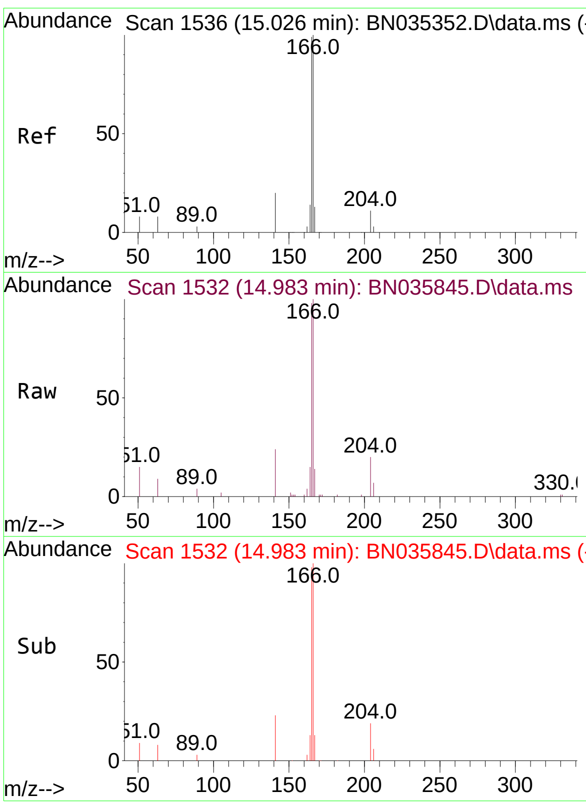
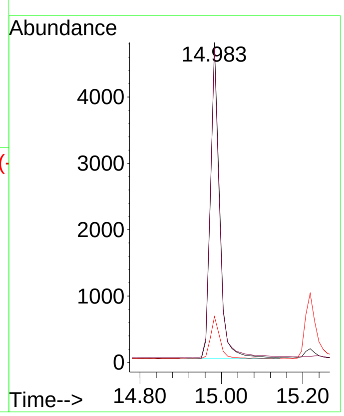



```
#17
Acenaphthene
Concen:    0.379 ng
RT:  13.978 min  Scan# 14
Delta R.T.  -0.022 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:154 Resp:    569
Ion  Ratio  Lower  Upper
154  100
153  116.1   92.6  139.0
152   60.4   49.0   73.6
```






```
#18
Fluorene
Concen:    0.350 ng
RT:  14.983 min  Scan# 1532
Delta R.T.  -0.022 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:166 Resp:    7523
Ion  Ratio  Lower  Upper
166  100
165   98.0   79.7  119.5
167   13.4   10.8   16.2
```



Instrument :
BNA_N
ClientSampleId :
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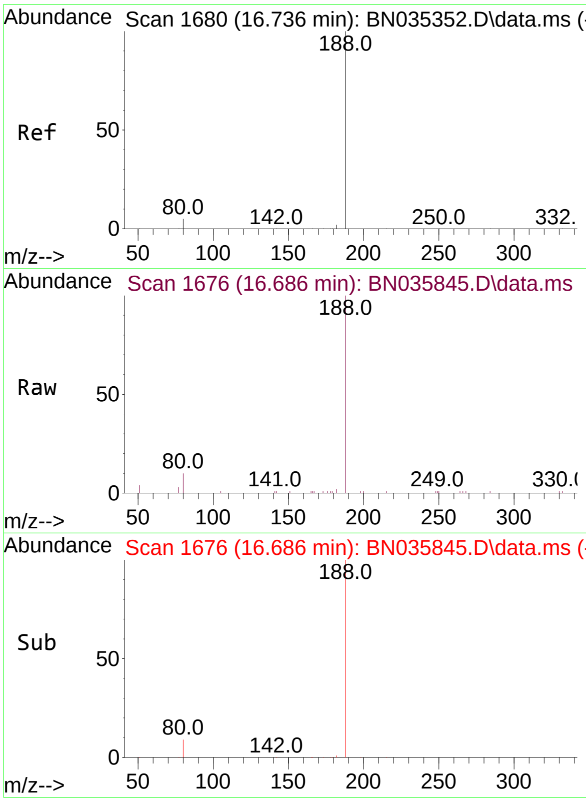
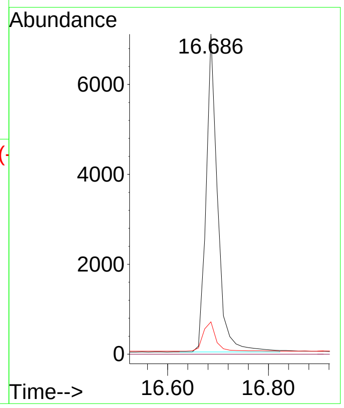
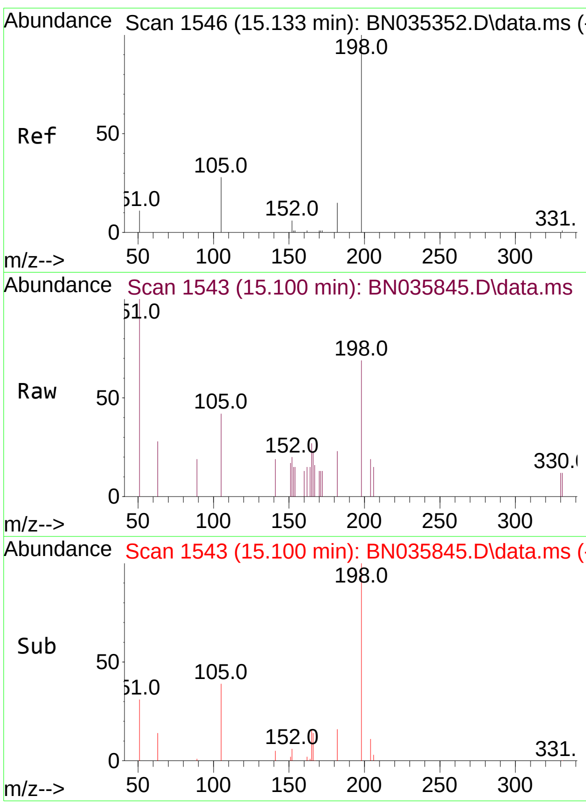
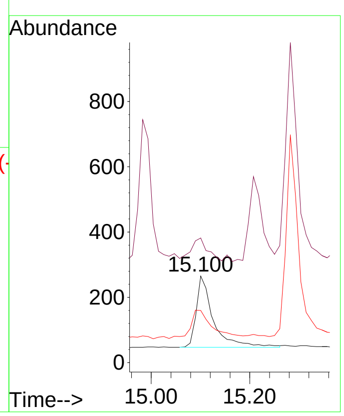


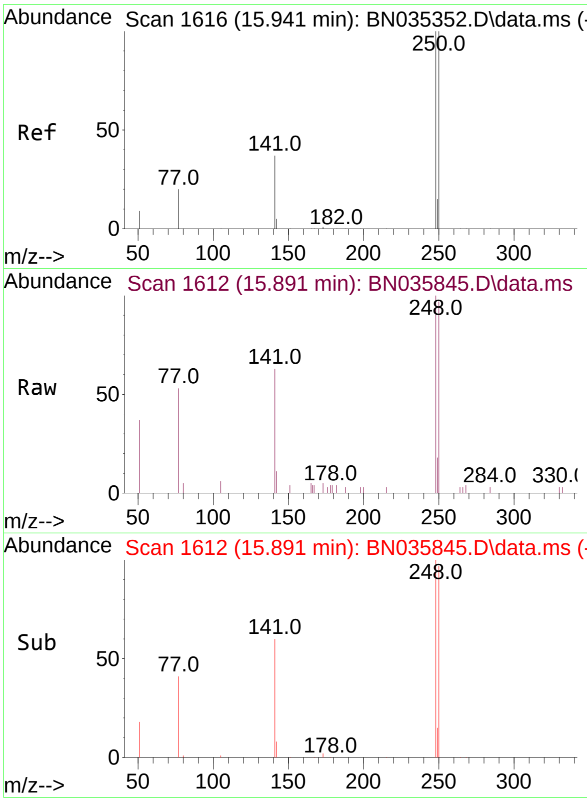

```
#19
Phenanthrene-d10
Concen:    0.400 ng
RT:  16.686 min  Scan# 1(
Delta R.T.  -0.013 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:188 Resp:   1126
Ion  Ratio  Lower  Upper
188  100
 94    0.0    0.0    0.0
 80   10.1    4.6    6.8#
```






```
#20
4,6-Dinitro-2-methylphenol
Concen:    0.475 ng
RT:  15.100 min  Scan# 1543
Delta R.T.  -0.022 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:198 Resp:     526
Ion  Ratio  Lower  Upper
198  100
 51  144.2   46.5   69.7#
105   60.4   45.3   67.9
```





#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:248 Resp: 244

Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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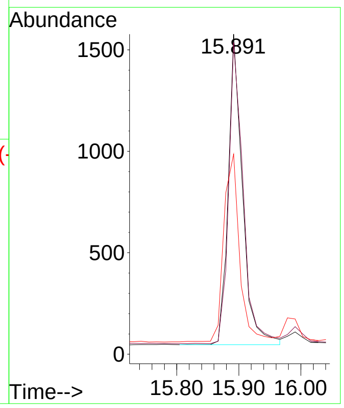
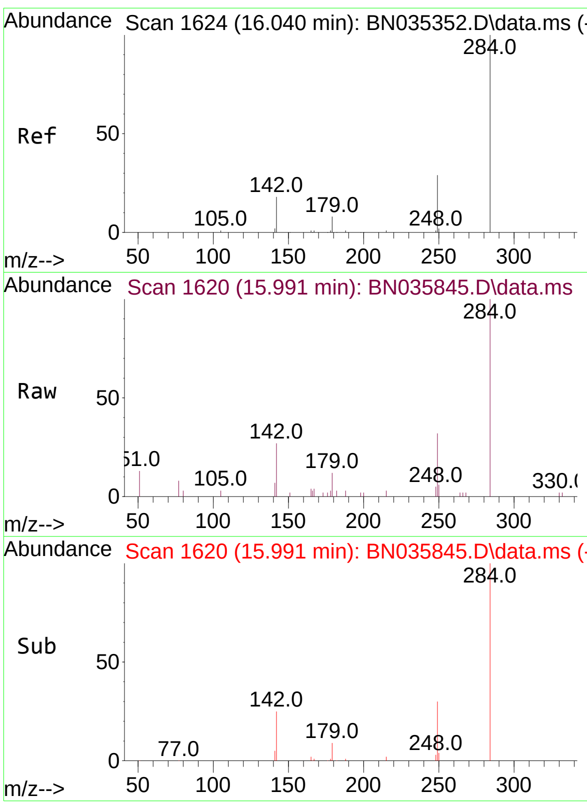
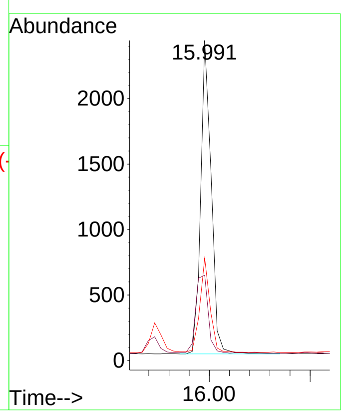


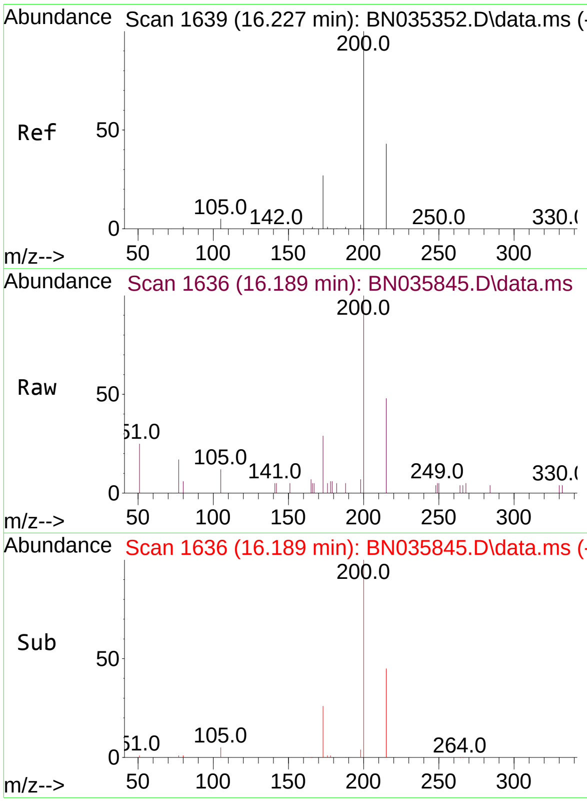


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8






```
#23
Atrazine
Concen:     0.393 ng
RT:  16.189 min  Scan# 1
Delta R.T.  -0.013 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:200 Resp:    184
Ion  Ratio  Lower  Upper
200  100
173   28.5   24.1   36.1
215   48.0   36.9   55.3
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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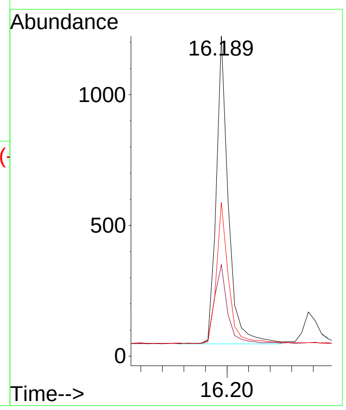
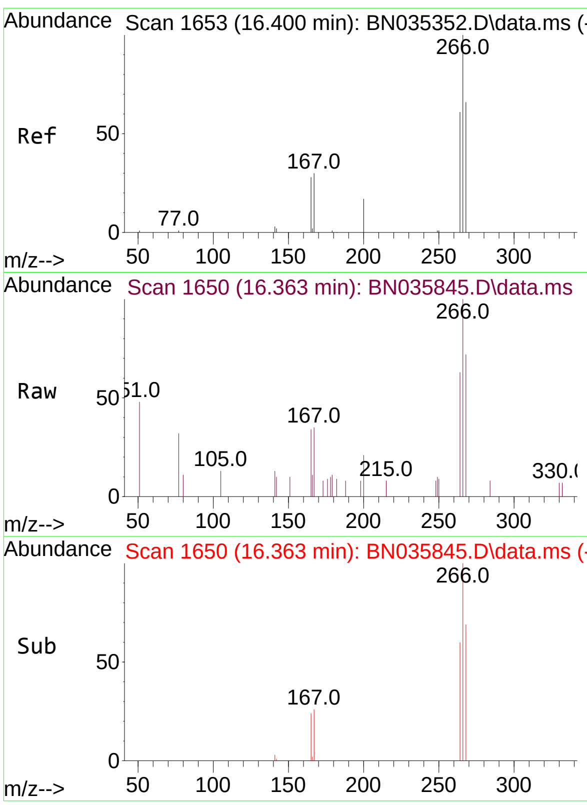
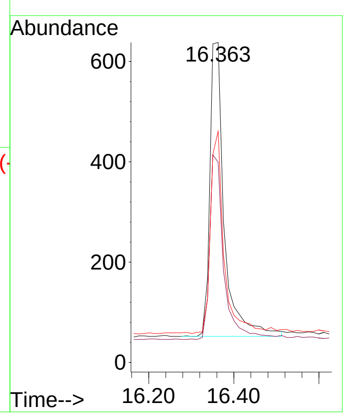
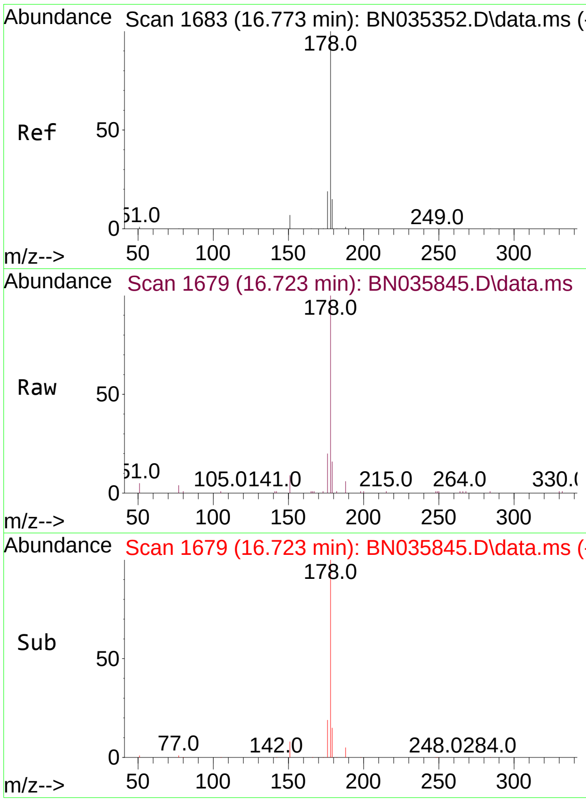





```
#24
Pentachlorophenol
Concen:     0.411 ng
RT:  16.363 min  Scan# 1650
Delta R.T.  -0.013 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:266 Resp:    1383
Ion  Ratio  Lower  Upper
266  100
264   61.3   42.3   63.5
268   63.8   43.3   64.9
```

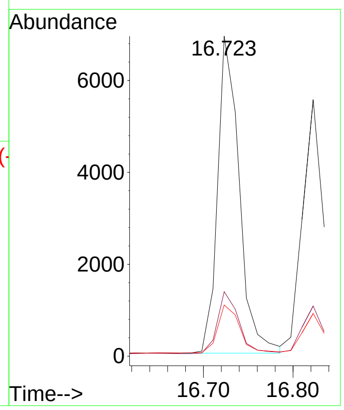




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 1160

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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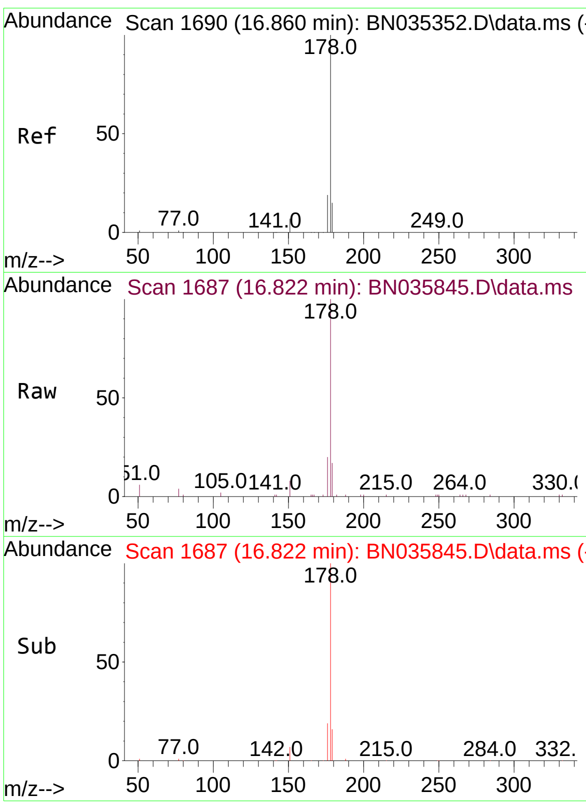
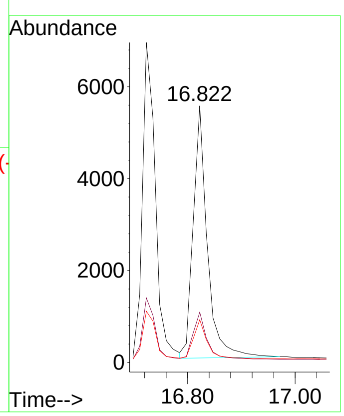


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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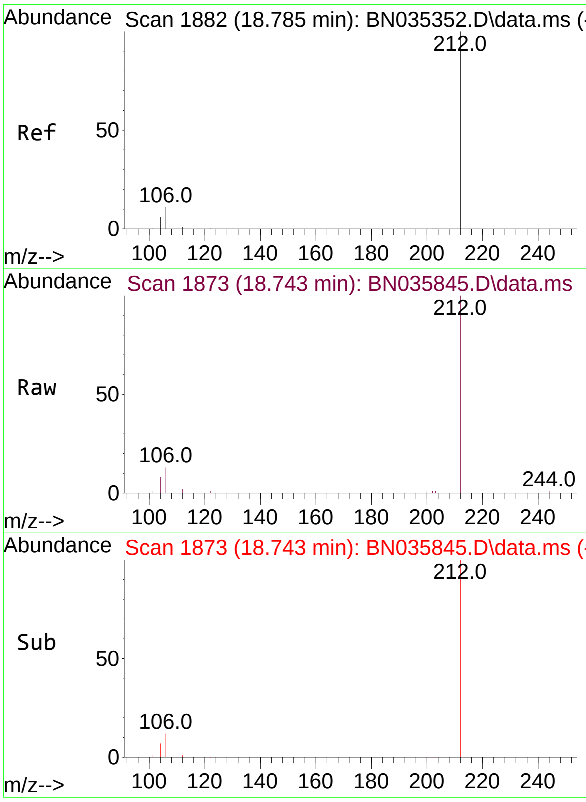
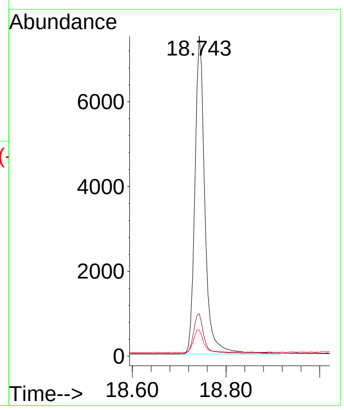
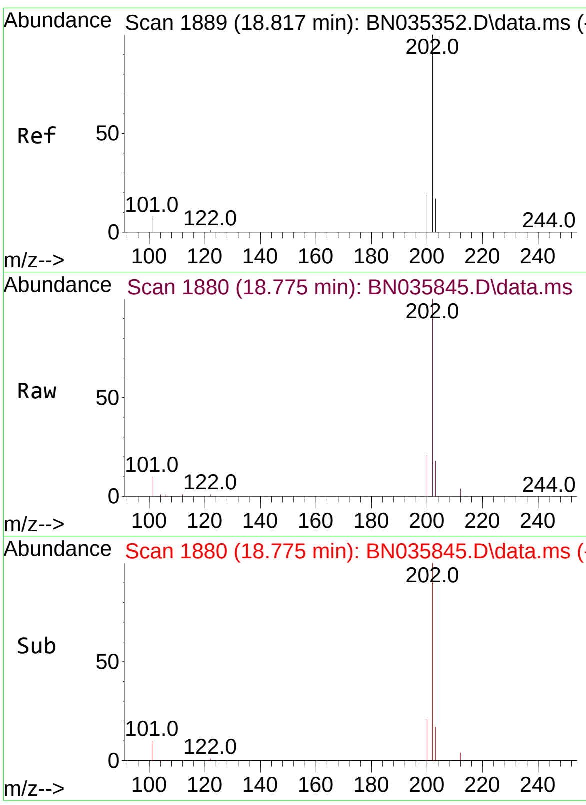
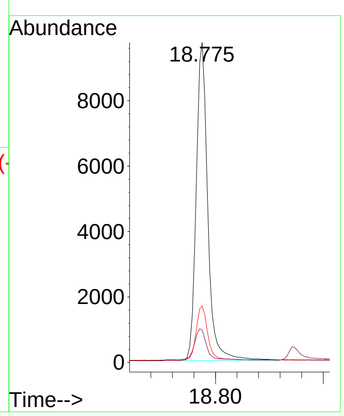



```
#27
Fluoranthene-d10
Concen:    0.350 ng
RT:  18.743 min  Scan# 1
Delta R.T.  -0.019 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:212 Resp:   1116
Ion  Ratio  Lower  Upper
212  100
106   12.7    9.2   13.8
104    7.4    5.3    7.9
```

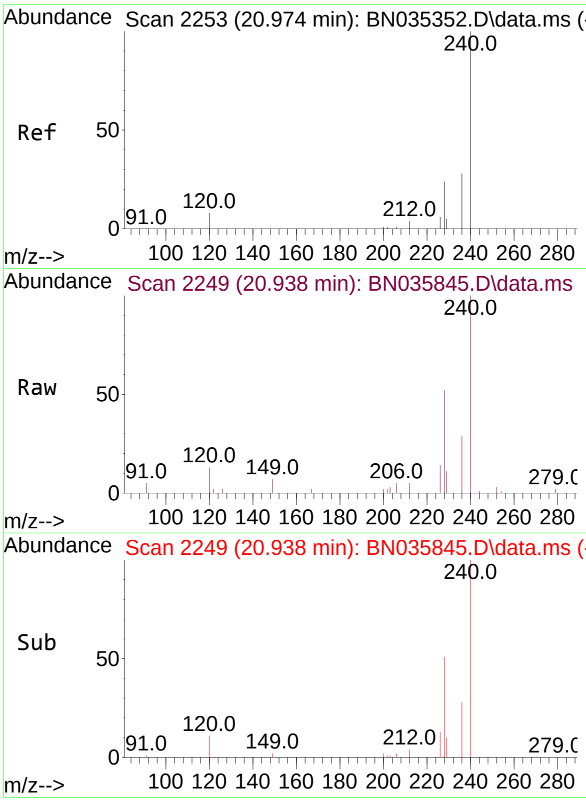





```
#28
Fluoranthene
Concen:    0.347 ng
RT:  18.775 min  Scan# 1880
Delta R.T.  -0.014 min
Lab File:   BN035845.D
Acq: 26 Dec 2024  09:58

Tgt Ion:202 Resp:   14489
Ion  Ratio  Lower  Upper
202  100
101   10.7    7.4   11.0
203   17.0   13.7   20.5
```



Sample Results: **BN035845.D**



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:240 Resp: 993

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9
236	28.9	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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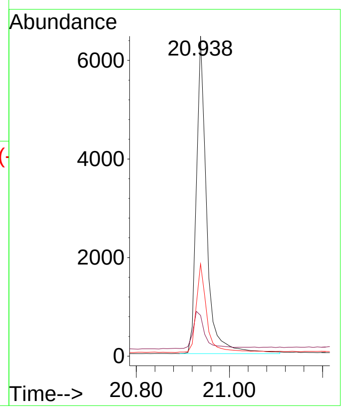
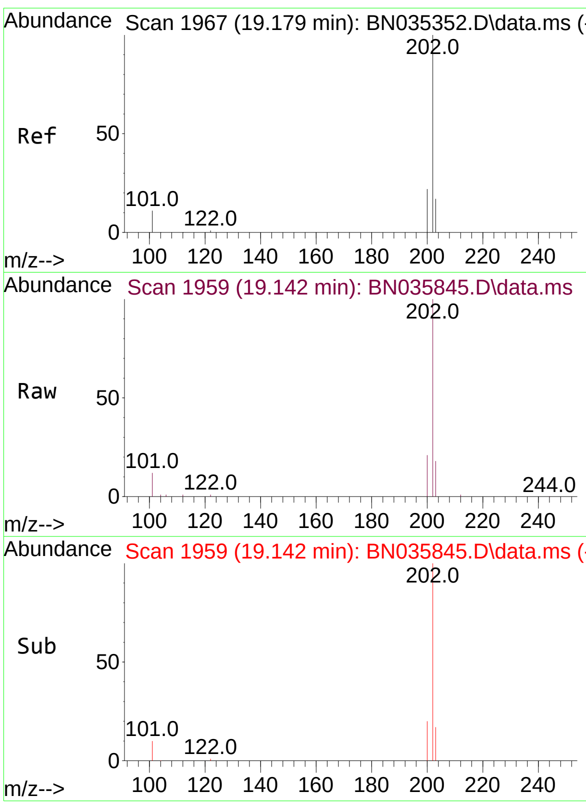
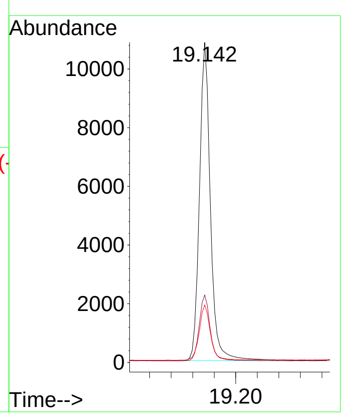




#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5



Sample Results: **BN035845.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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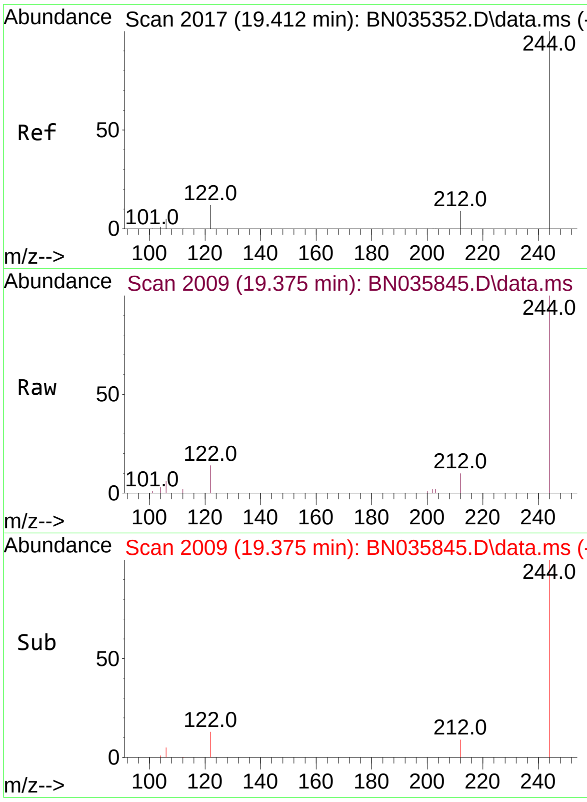
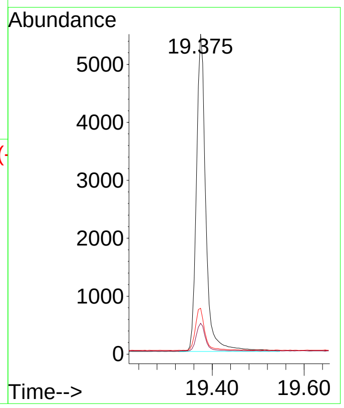
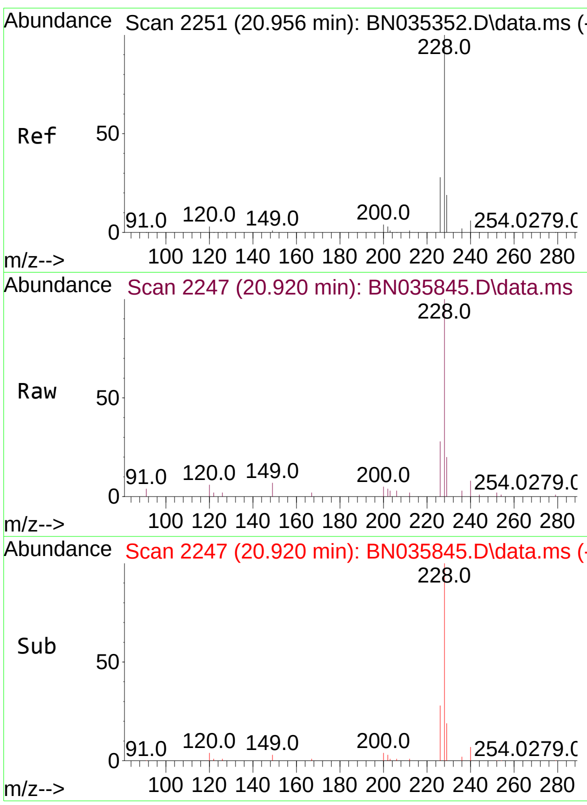


#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2(
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:244 Resp: 778

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

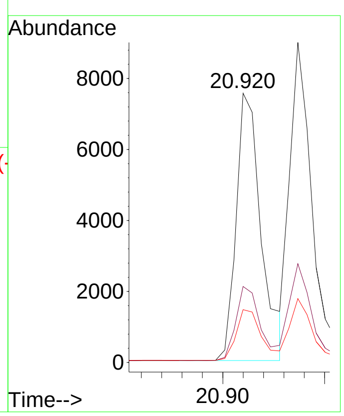




#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8



Sample Results: **BN035845.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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Reviewed By :Yogesh Patel 12/27/2024
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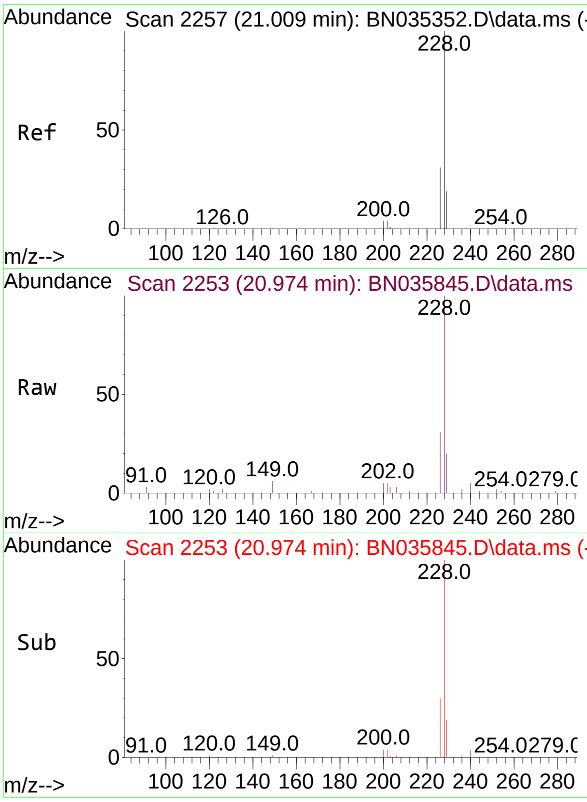
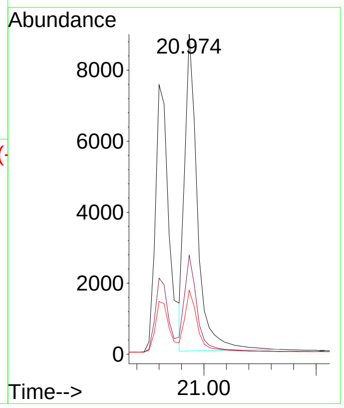
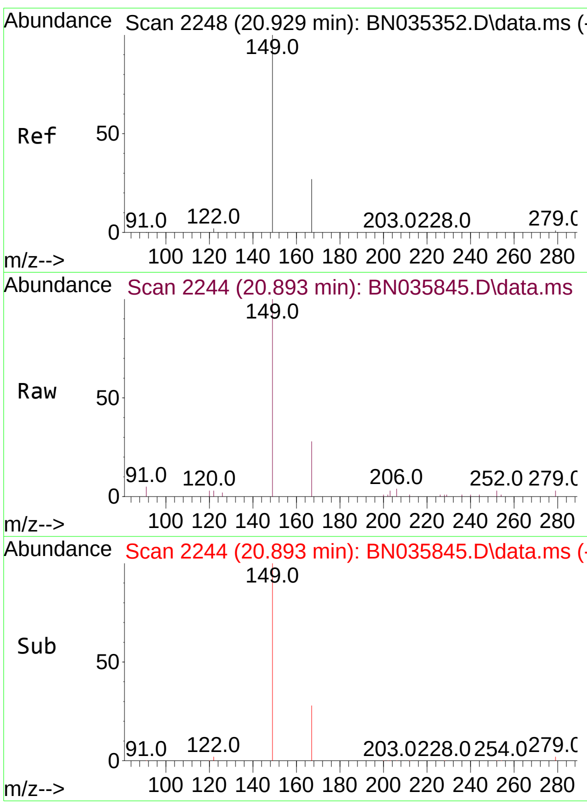


#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 1421

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

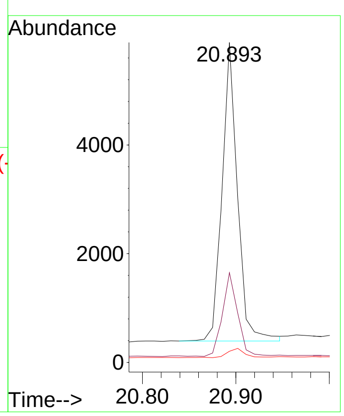


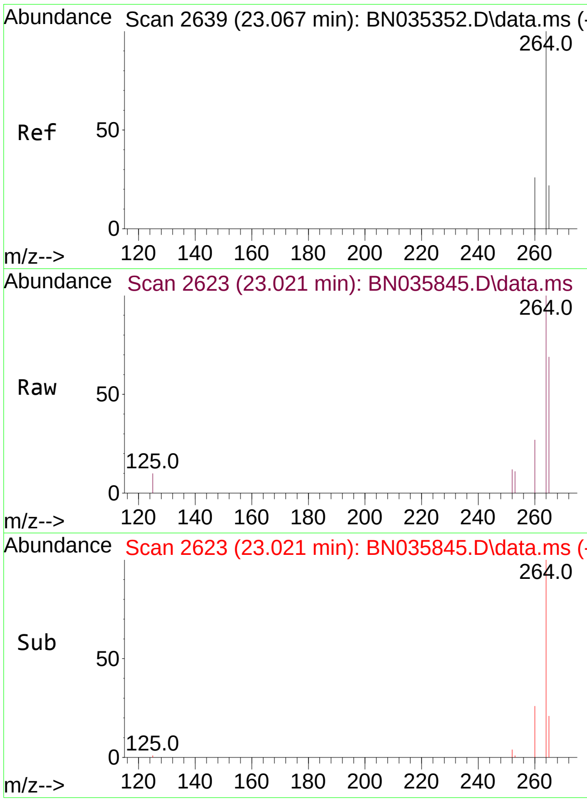


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1





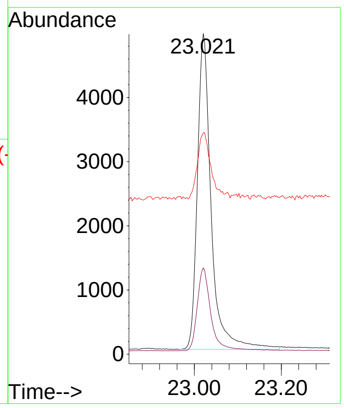
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2(
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

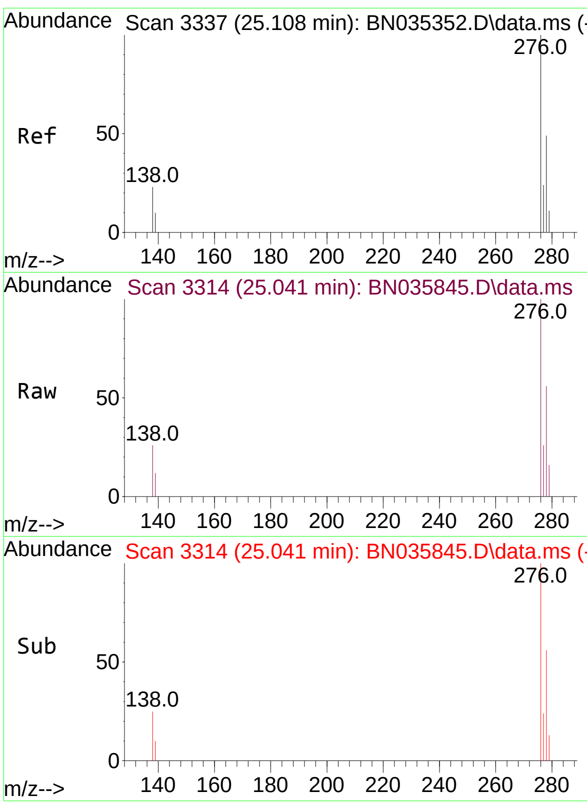
Tgt Ion:264 Resp: 1081

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

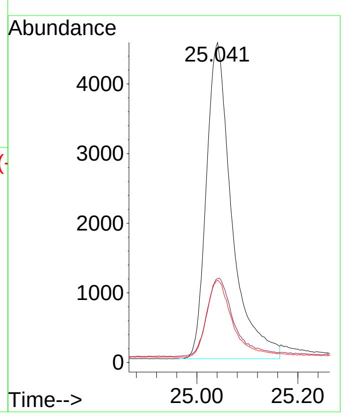


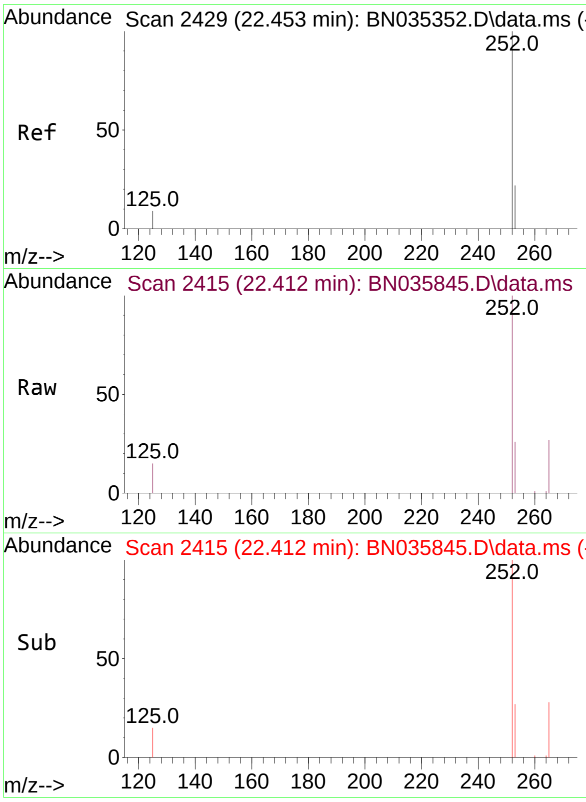


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6

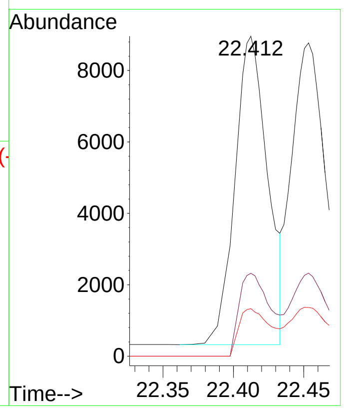




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

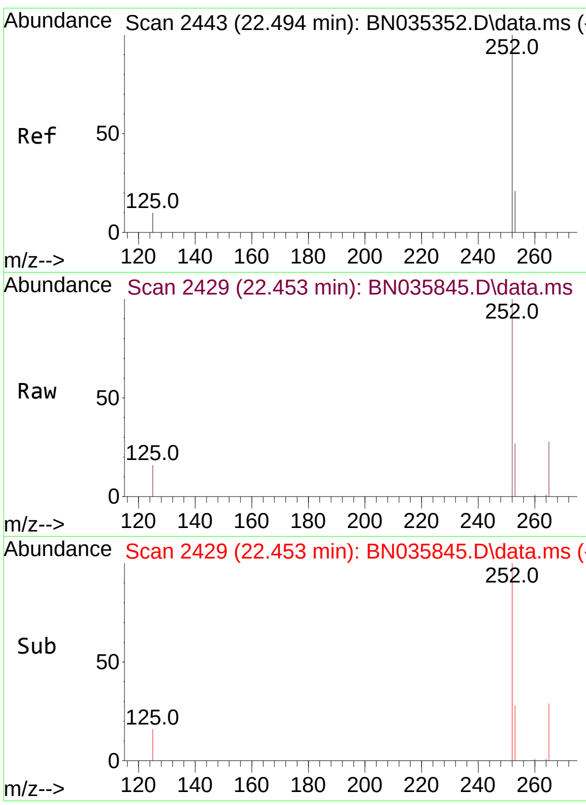
Tgt Ion:252 Resp: 1956

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

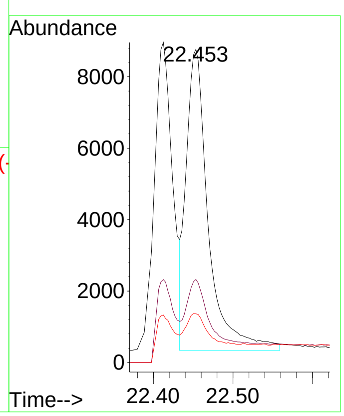
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

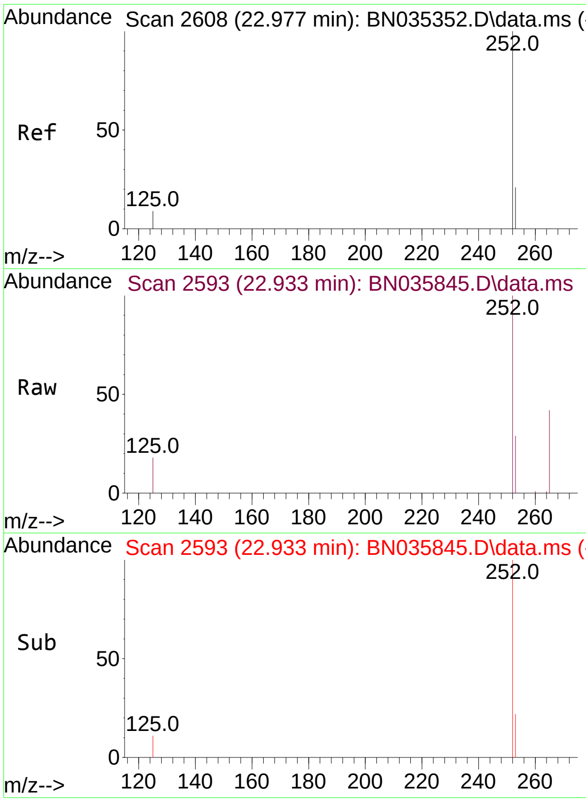


#38
Benzo(k)fluoranthene
Concen: 0.423 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 16469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.5	10.2	15.4#





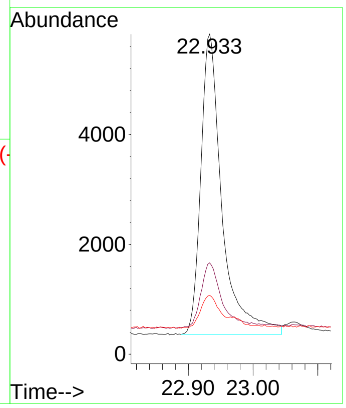
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

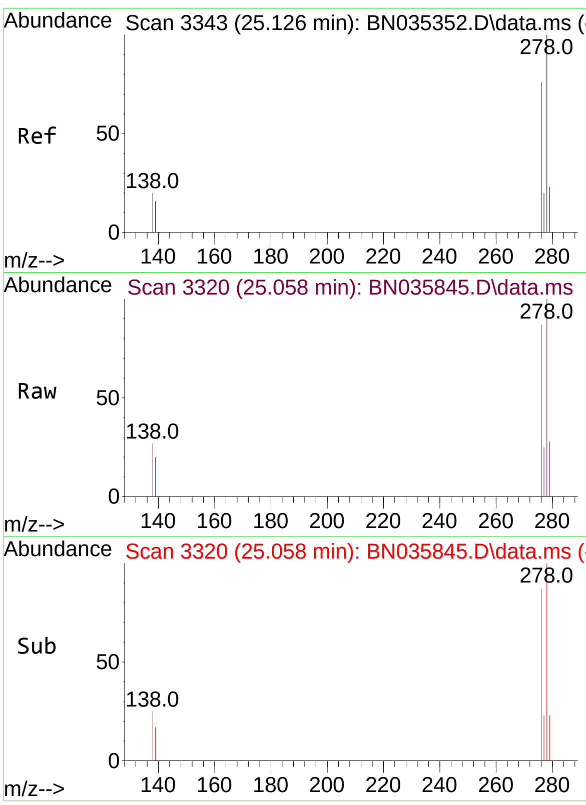
Tgt Ion:252 Resp: 1245

Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

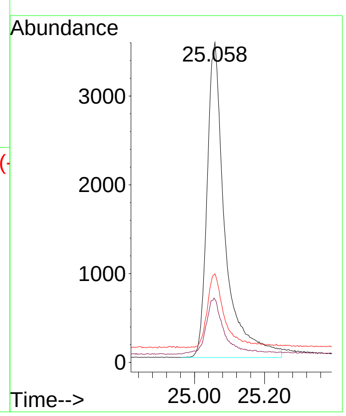


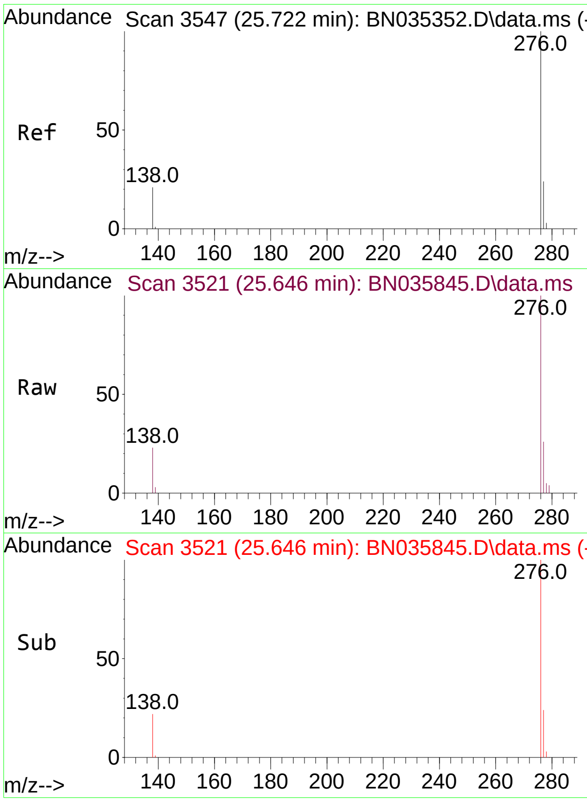


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7

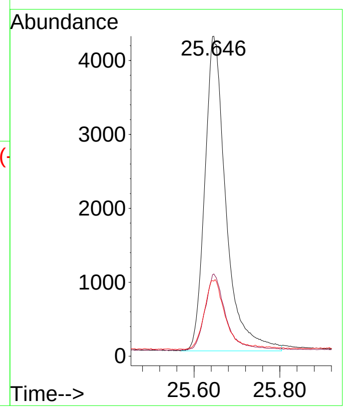




#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 1461

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Evaluate Continuing Calibration Report

Sample Results: **BN035845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	183#	-0.01
2		1,4-Dioxane	0.382	0.405	-6.0	197#	0.00
3		n-Nitrosodimethylamine	0.319	0.326	-2.2	183#	0.00
4	S	2-Fluorophenol	1.001	1.006	-0.5	181#	-0.01
5	S	Phenol-d6	1.204	1.112	7.6	171#	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.958	5.3	177#	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	178#	-0.02
8	S	Nitrobenzene-d5	0.244	0.298	-22.1	226#	-0.01
9		Naphthalene	1.055	1.013	4.0	172#	-0.02
10		Hexachlorobutadiene	0.243	0.252	-3.7	182#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.545	12.9	157#	-0.02
12		2-Methylnaphthalene	0.755	0.637	15.6	154#	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.248	12.7	137	-0.02
15	S	2-Fluorobiphenyl	1.512	1.504	0.5	141	-0.02
16		Acenaphthylene	1.680	1.548	7.9	138	-0.02
17		Acenaphthene	1.115	1.057	5.2	138	-0.02
18		Fluorene	1.596	1.397	12.5	128	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.047	-20.5	156#	-0.02
21		4-Bromophenyl-phenylether	0.234	0.217	7.3	114	-0.02
22		Hexachlorobenzene	0.275	0.309	-12.4	134	-0.02
23		Atrazine	0.167	0.164	1.8	126	-0.01
24		Pentachlorophenol	0.120	0.123	-2.5	153#	-0.01
25		Phenanthrene	1.099	1.030	6.3	115	-0.02
26		Anthracene	0.994	0.888	10.7	112	-0.01
27	SURR	Fluoranthene-d10	1.134	0.991	12.6	109	-0.02
28		Fluoranthene	1.481	1.287	13.1	108	-0.01
29	I	Chrysene-d12	1.000	1.000	0.0	104	-0.02
30		Pyrene	1.477	1.538	-4.1	109	-0.02
31	S	Terphenyl-d14	0.789	0.784	0.6	103	-0.01
32		Benzo(a)anthracene	1.399	1.289	7.9	99	-0.02
33		Chrysene	1.443	1.431	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.553	0.633	-14.5	128	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	1.564	1.474	5.8	96	-0.03
37		Benzo(b)fluoranthene	1.463	1.809	-23.7	137	-0.02
38		Benzo(k)fluoranthene	1.440	1.523	-5.8	108	-0.02
39	C	Benzo(a)pyrene	1.205	1.152	4.4	100	-0.02
40		Dibenzo(a,h)anthracene	1.234	1.172	5.0	98	-0.02
41		Benzo(g,h,i)perylene	1.289	1.351	-4.8	108	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN035845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	183	-0.01
2		1,4-Dioxane	0.400	0.423	-5.7	197	0.00
3		n-Nitrosodimethylamine	0.400	0.409	-2.2	183	0.00
4	S	2-Fluorophenol	0.400	0.402	-0.5	181	-0.01
5	S	Phenol-d6	0.400	0.369	7.8	171	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.379	5.3	177	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	178	-0.02
8	S	Nitrobenzene-d5	0.400	0.488	-22.0	226	-0.01
9		Naphthalene	0.400	0.384	4.0	172	-0.02
10		Hexachlorobutadiene	0.400	0.415	-3.7	182	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.348	13.0	157	-0.02
12		2-Methylnaphthalene	0.400	0.337	15.8	154	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	142	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.350	12.5	137	-0.02
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	141	-0.02
16		Acenaphthylene	0.400	0.369	7.8	138	-0.02
17		Acenaphthene	0.400	0.379	5.3	138	-0.02
18		Fluorene	0.400	0.350	12.5	128	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	119	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.475	-18.7	156	-0.02
21		4-Bromophenyl-phenylether	0.400	0.371	7.3	114	-0.02
22		Hexachlorobenzene	0.400	0.450	-12.5	134	-0.02
23		Atrazine	0.400	0.393	1.8	126	-0.01
24		Pentachlorophenol	0.400	0.411	-2.7	153	-0.01
25		Phenanthrene	0.400	0.375	6.3	115	-0.02
26		Anthracene	0.400	0.358	10.5	112	-0.01
27	SURR	Fluoranthene-d10	0.400	0.350	12.5	109	-0.02
28		Fluoranthene	0.400	0.347	13.3	108	-0.01
29	I	Chrysene-d12	0.400	0.400	0.0	104	-0.02
30		Pyrene	0.400	0.417	-4.2	109	-0.02
31	S	Terphenyl-d14	0.400	0.397	0.8	103	-0.01
32		Benzo(a)anthracene	0.400	0.368	8.0	99	-0.02
33		Chrysene	0.400	0.397	0.8	104	-0.02
34		Bis(2-ethylhexyl)phthalate	0.400	0.458	-14.5	128	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	100	-0.02
36		Indeno(1,2,3-cd)pyrene	0.400	0.377	5.8	96	-0.03
37		Benzo(b)fluoranthene	0.400	0.494	-23.5	137	-0.02
38		Benzo(k)fluoranthene	0.400	0.423	-5.7	108	-0.02
39	C	Benzo(a)pyrene	0.400	0.382	4.5	100	-0.02
40		Dibenzo(a,h)anthracene	0.400	0.380	5.0	98	-0.02
41		Benzo(g,h,i)perylene	0.400	0.419	-4.7	108	-0.03

(#) = 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.: P5374 SAS No.: P5374 SDG No.: P5374

Instrument ID: BNA_N Calibration Date/Time: 12/26/2024 19:41

Lab File ID: BN035861.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	$\overline{RRF}$	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.551		-12.0	50.0
Fluoranthene-d10	1.134	0.922		-18.7	50.0
2-Fluorophenol	1.001	0.931		-7.0	50.0
Phenol-d6	1.204	1.022		-15.1	50.0
Nitrobenzene-d5	0.244	0.306		25.4	50.0
2-Fluorobiphenyl	1.512	1.480		-2.1	50.0
2,4,6-Tribromophenol	0.284	0.225		-20.8	50.0
Terphenyl-d14	0.789	0.898		13.8	50.0
1,4-Dioxane	0.382	0.394		3.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BN035861.D**

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On    : 26 Dec 2024  19:41
Operator  : RC/JU
Sample    : SSTDCCC0.4
Misc      :
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	2874	0.372	ng	-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2215m	0.501	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng	-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng	-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng	96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	# 90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng	98
9) Naphthalene	10.052	128	7516	0.394	ng	100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	# 99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng	99
16) Acenaphthylene	13.625	152	6923	0.369	ng	100
17) Acenaphthene	13.978	154	4776	0.383	ng	99
18) Fluorene	14.983	166	6478	0.363	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	# 67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	# 96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng	98
23) Atrazine	16.202	200	1507	0.386	ng	94
24) Pentachlorophenol	16.363	266	846	0.302	ng	# 84
25) Phenanthrene	16.736	178	9697	0.377	ng	100
26) Anthracene	16.822	178	8100	0.348	ng	99
28) Fluoranthene	18.780	202	11145	0.321	ng	99
30) Pyrene	19.147	202	11492	0.517	ng	99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng	99
33) Chrysene	20.983	228	9578	0.441	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng	99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng	98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	# 92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	# 90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	# 82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	# 91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng	95

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

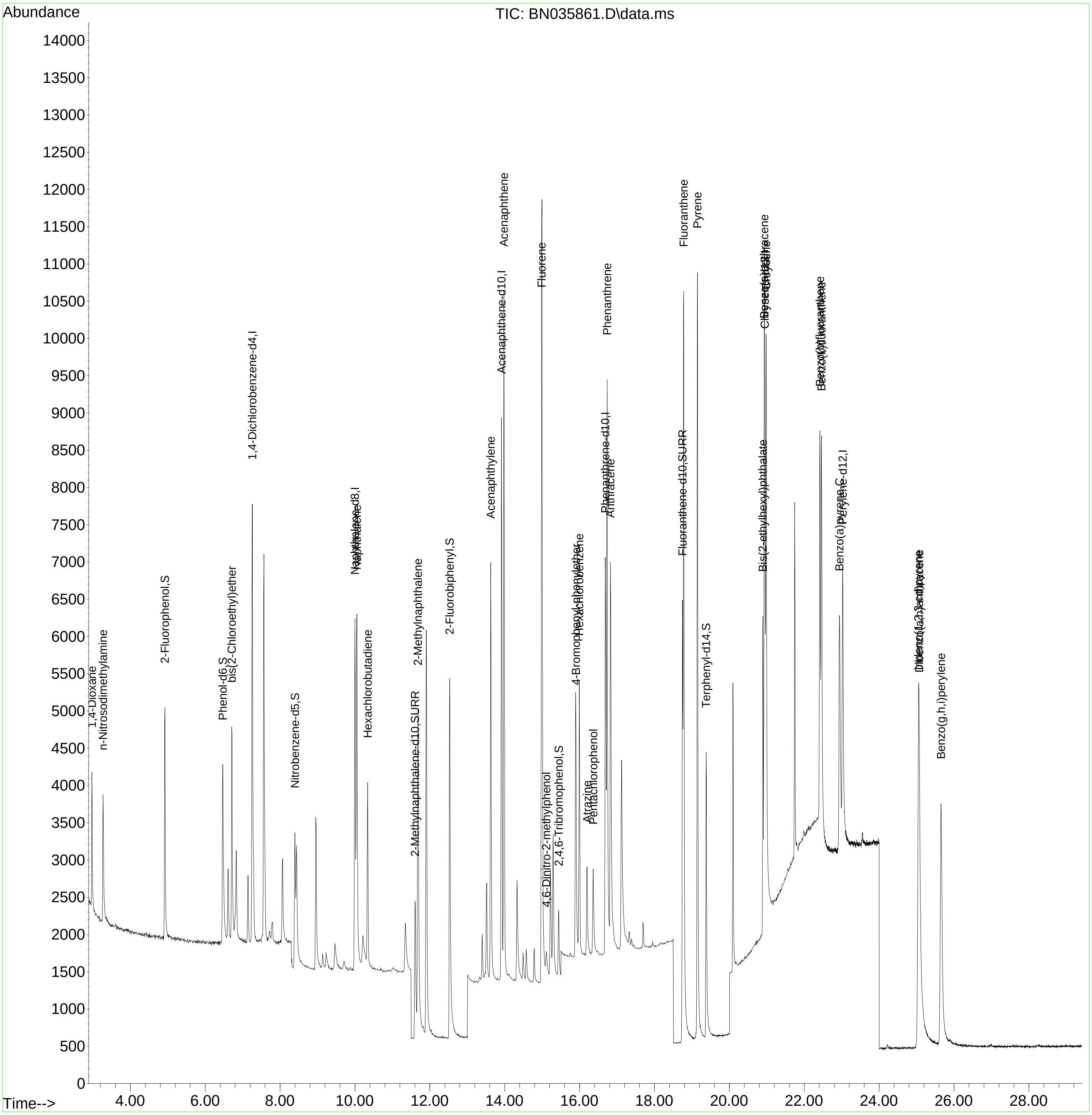
Sample Results: **BN035861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



Sample Results: **BN035861.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
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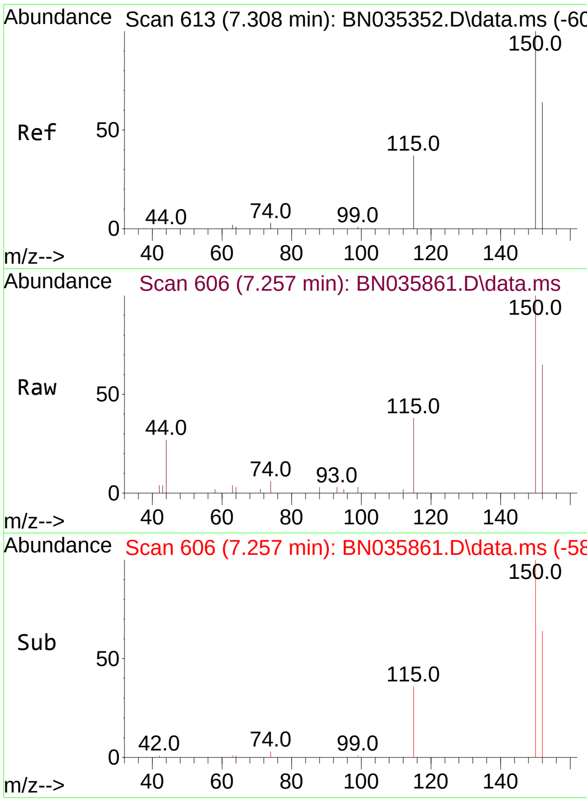
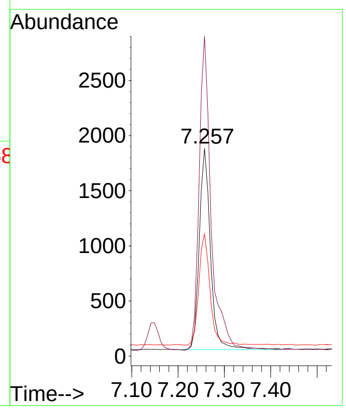
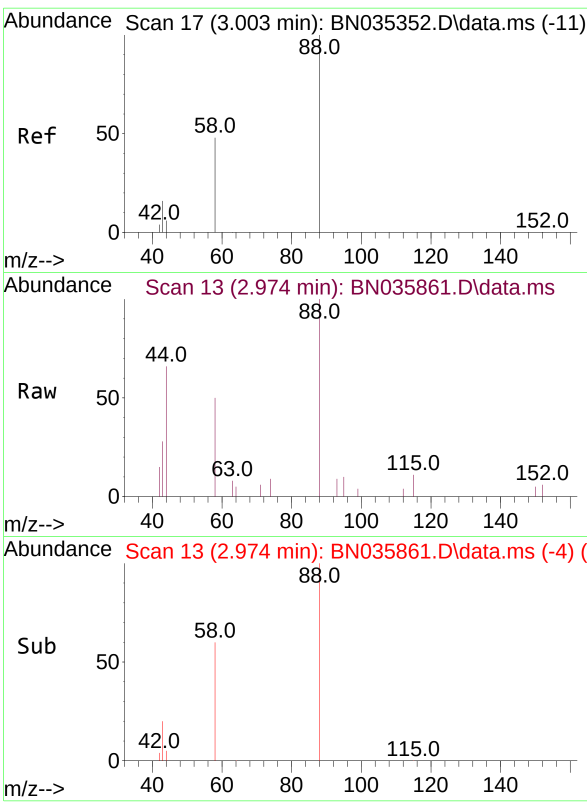
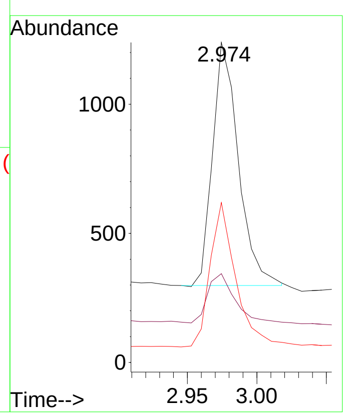


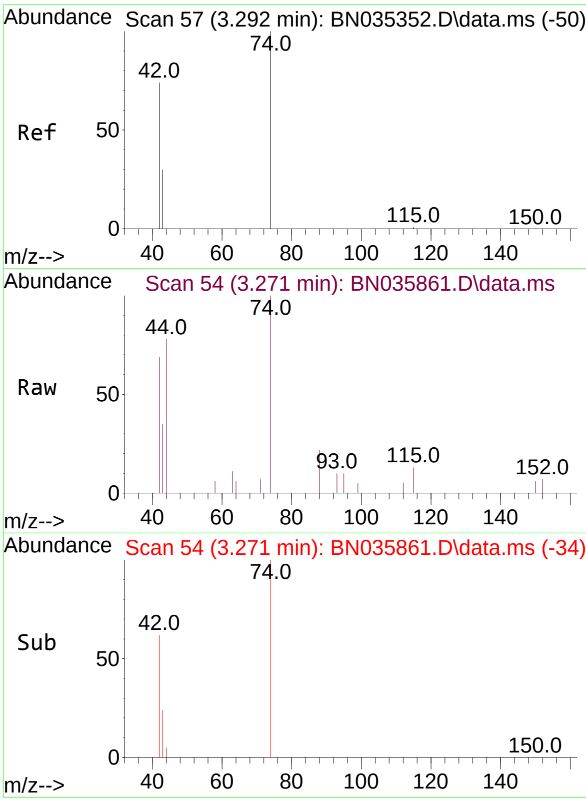

```
#1
1,4-Dichlorobenzene-d4
Concen:    0.400 ng
RT:    7.257 min   Scan# 60
Delta R.T.   -0.015 min
Lab File:    BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:152 Resp:    308
Ion   Ratio   Lower   Upper
152   100
150   154.0   124.0   186.0
115    58.9    49.6    74.4
```






```
#2
1,4-Dioxane
Concen:    0.412 ng
RT:    2.974 min   Scan# 13
Delta R.T.   -0.008 min
Lab File:    BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion: 88 Resp:    1215
Ion   Ratio   Lower   Upper
 88   100
 43    20.1    17.2    25.8
 58    59.1    44.5    66.7
```





#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min   Scan# 54
Delta R.T.   -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 102

Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4

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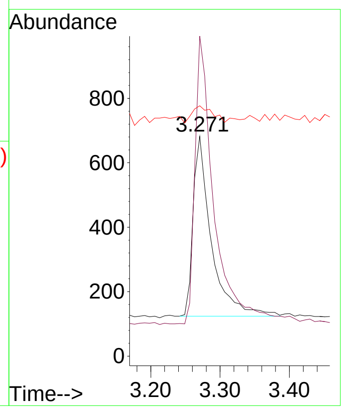
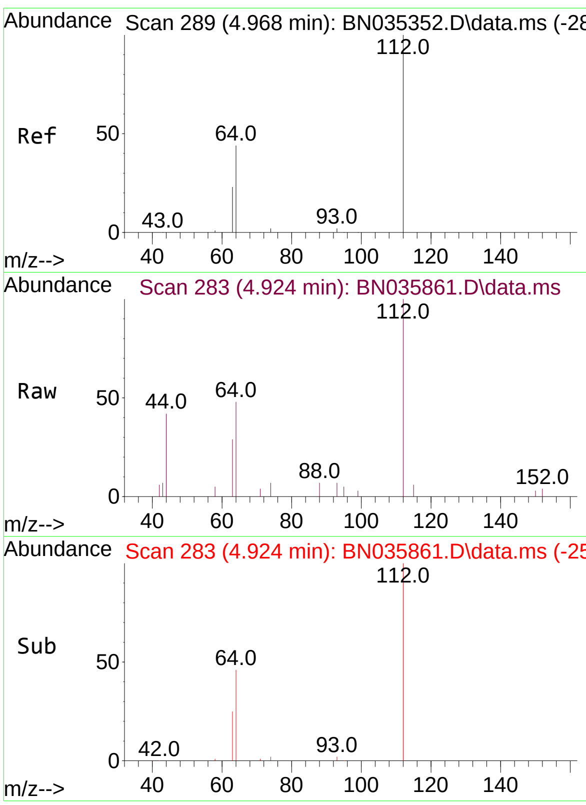
Supervised By :mohammad ahmed   12/27/2024

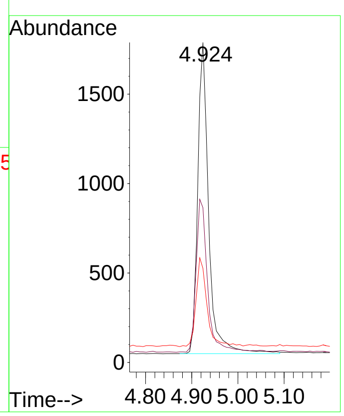


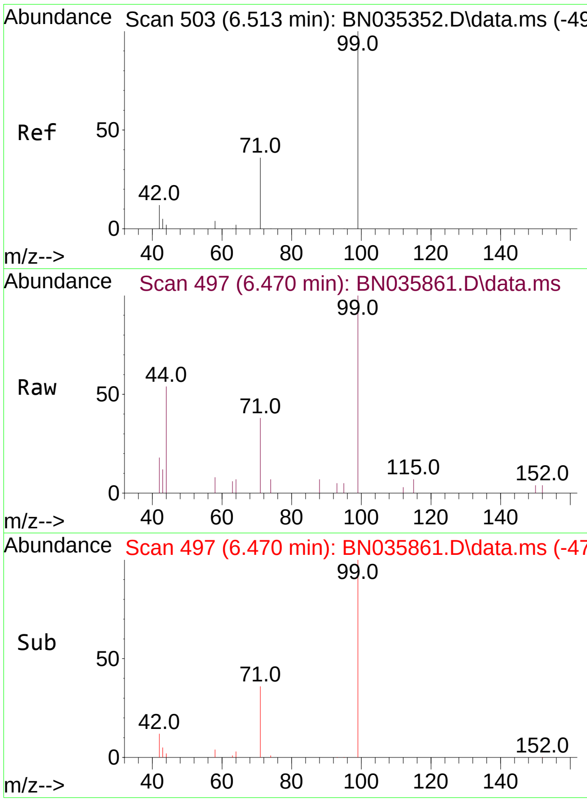


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min   Scan# 283
Delta R.T.   -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6

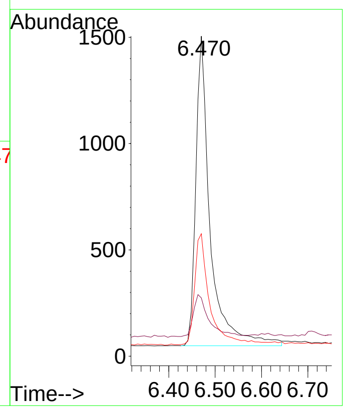




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 99 Resp: 315

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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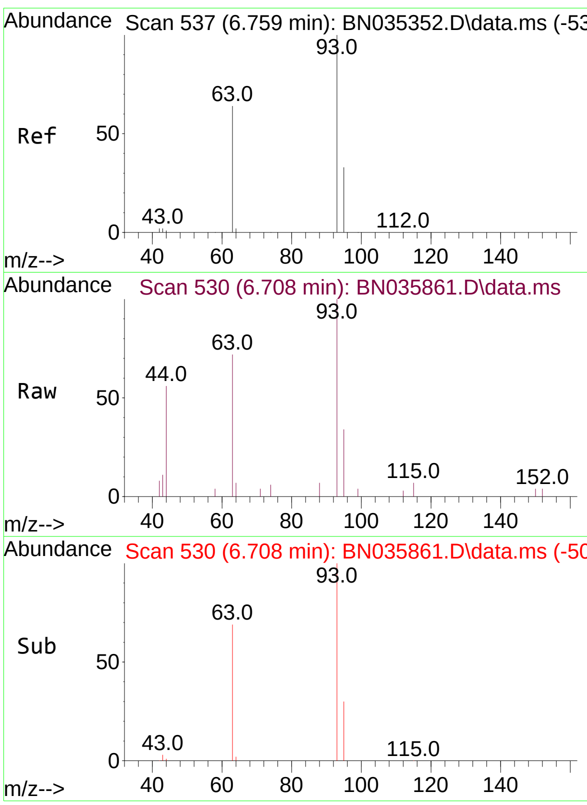
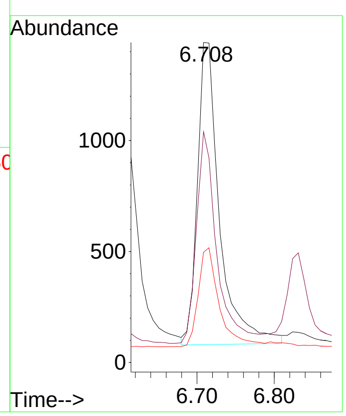
Supervised By :mohammad ahmed 12/27/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5



Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

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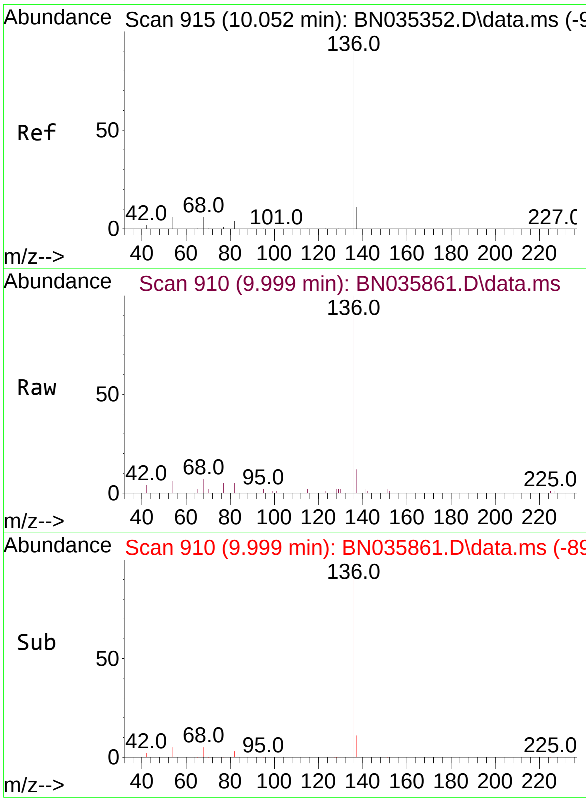
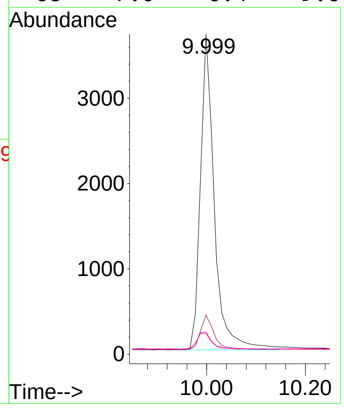
Supervised By :mohammad ahmed 12/27/2024

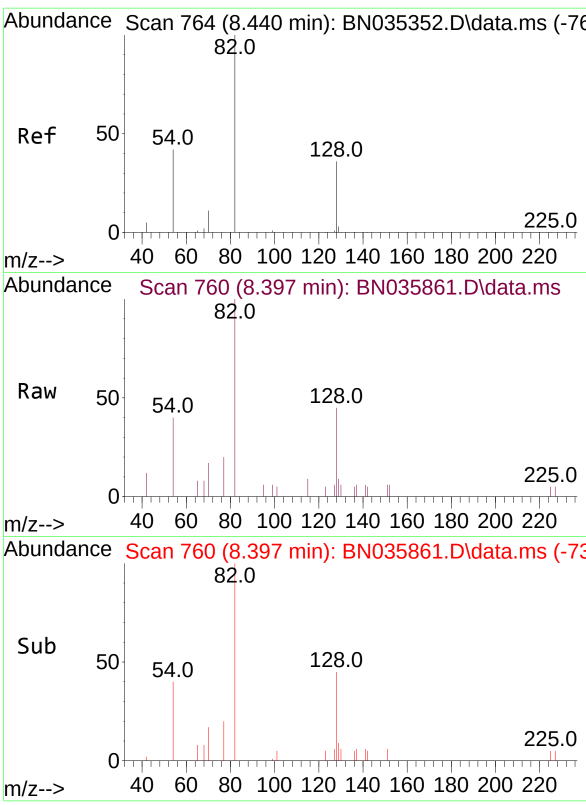


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min   Scan# 91
Delta R.T.   -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:136 Resp: 7239

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6

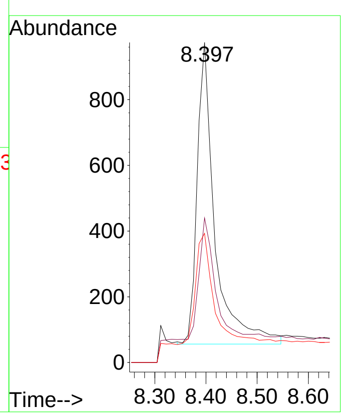


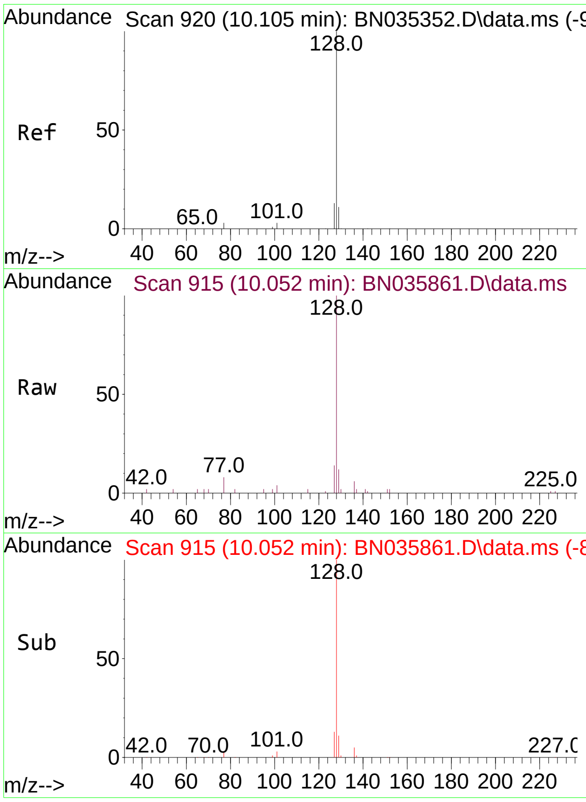


#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min   Scan# 760
Delta R.T.   -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion: 82 Resp: 2215

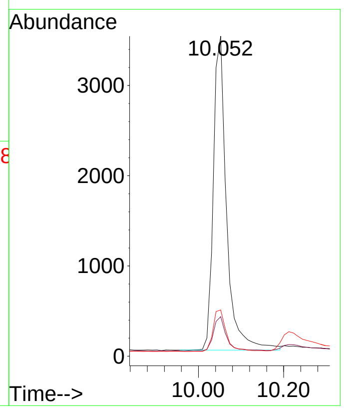
Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1






```
#9
Naphthalene
Concen:    0.394 ng
RT:  10.052 min  Scan# 9
Delta R.T.  -0.011 min
Lab File:   BN035861.D
Acq: 26 Dec 2024  19:41

Tgt Ion:128 Resp:    751
Ion  Ratio  Lower  Upper
128  100
129   12.4    9.8   14.6
127   14.5   11.4   17.2
```



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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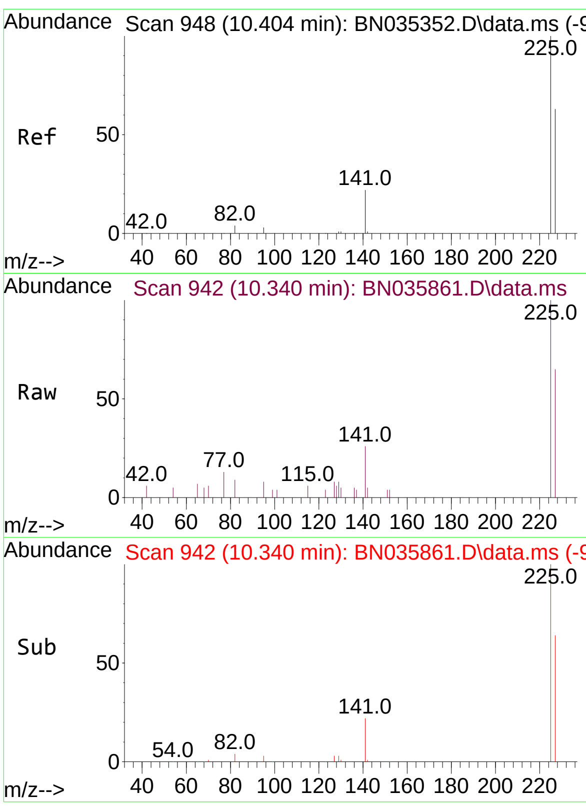
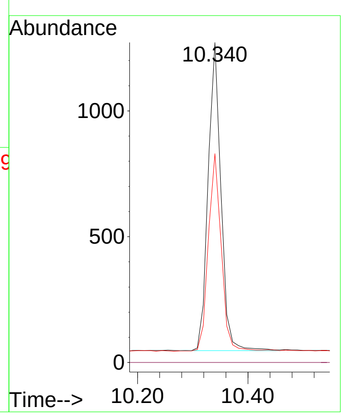



```
#10
Hexachlorobutadiene
Concen:    0.452 ng
RT:  10.340 min  Scan# 942
Delta R.T.  -0.021 min
Lab File:   BN035861.D
Acq: 26 Dec 2024  19:41

Tgt Ion:225 Resp:    1992
Ion  Ratio  Lower  Upper
225  100
223    0.0    0.0    0.0
227   64.7   51.3   76.9
```



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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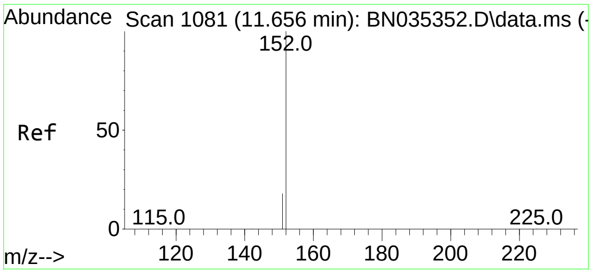
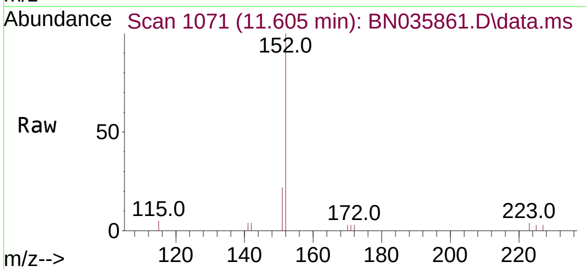
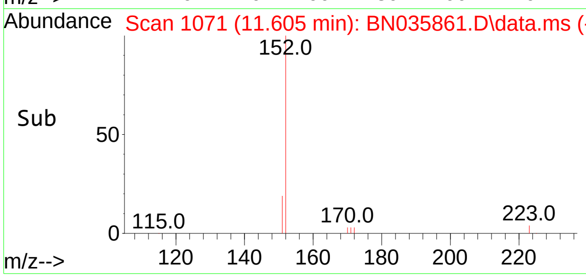


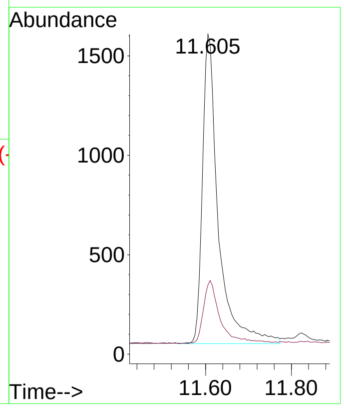


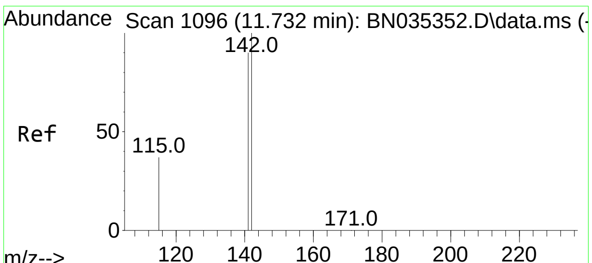


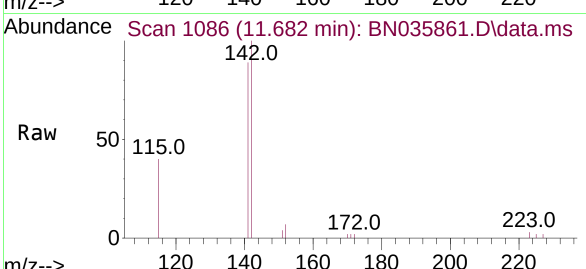
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

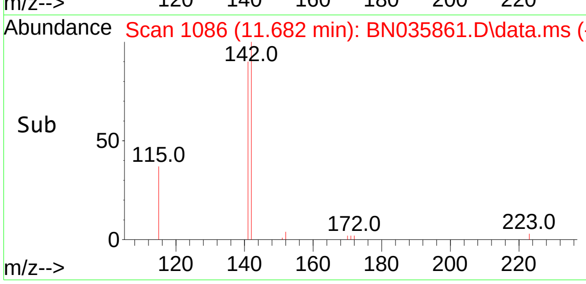
Tgt Ion:152 Resp: 398

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0





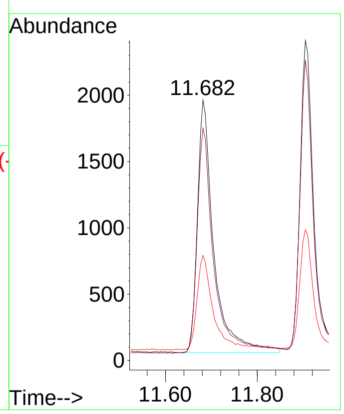




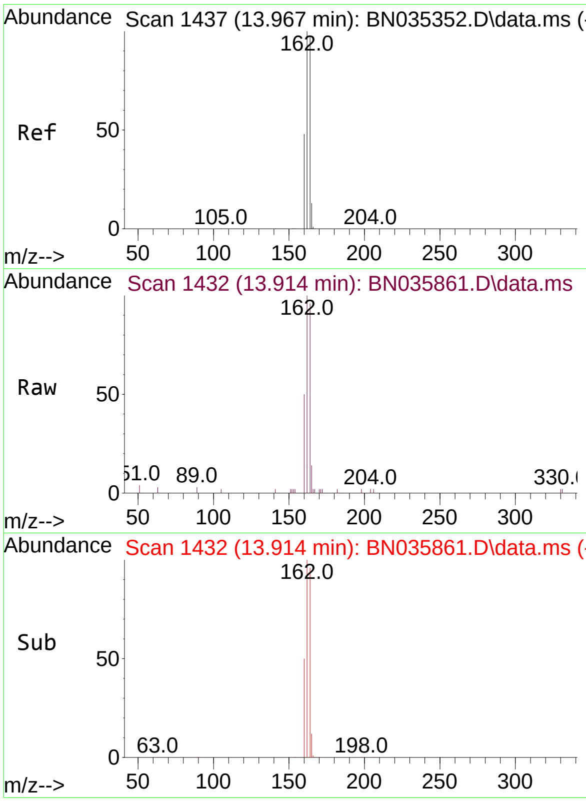
#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0



Sample Results: **BN035861.D**



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:164 Resp: 447

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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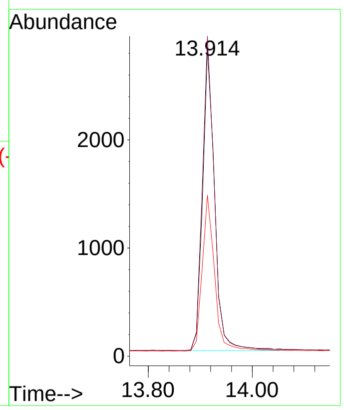
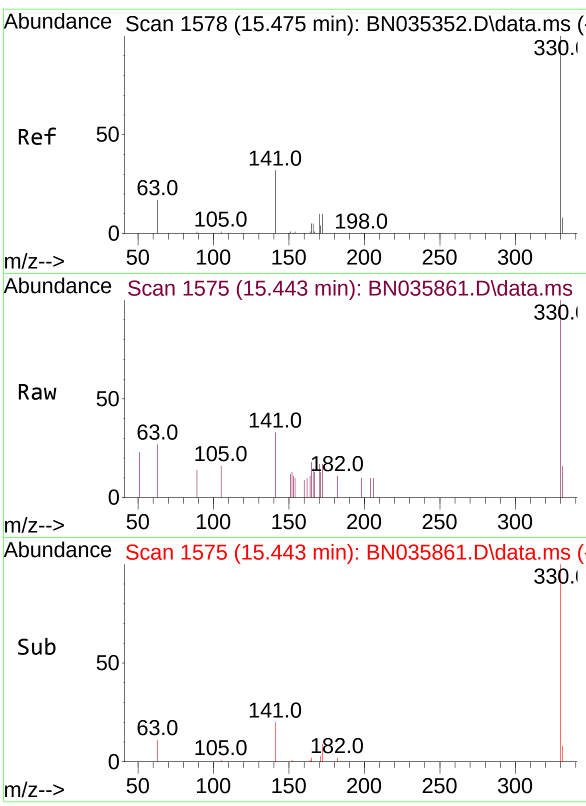
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

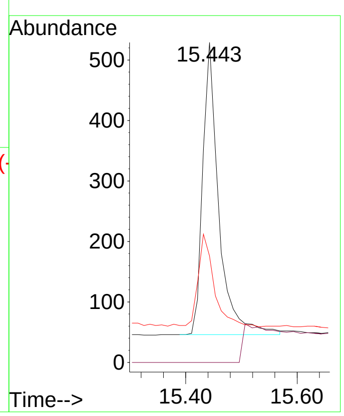


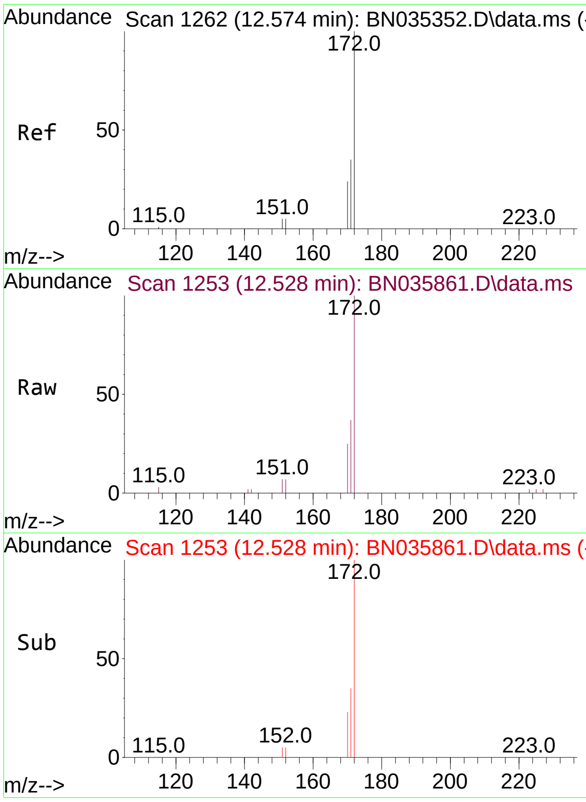


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0

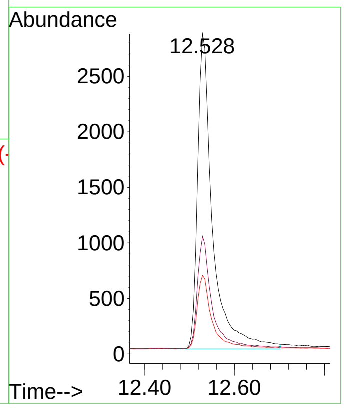




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:172 Resp: 661

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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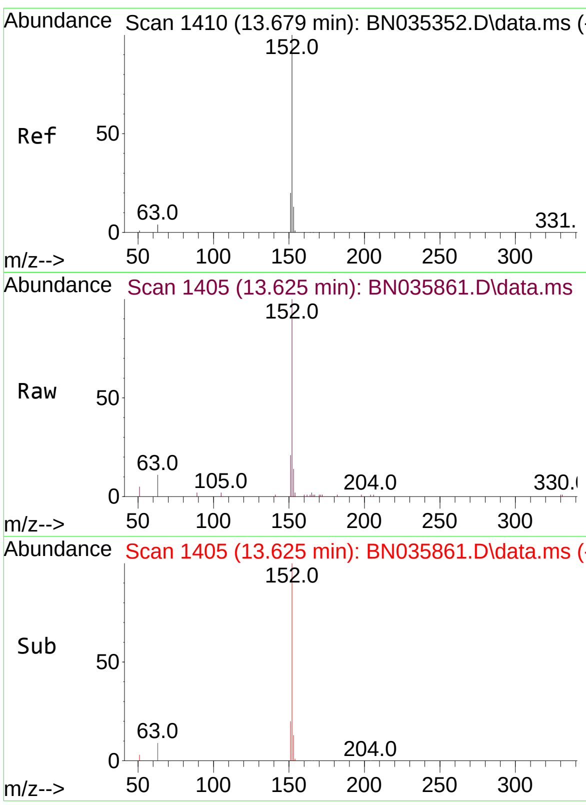
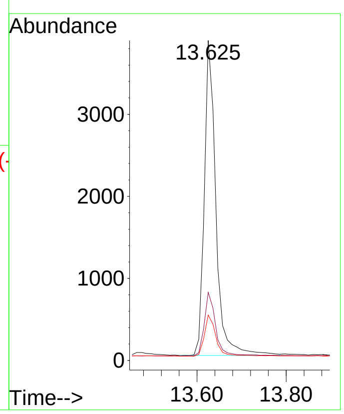
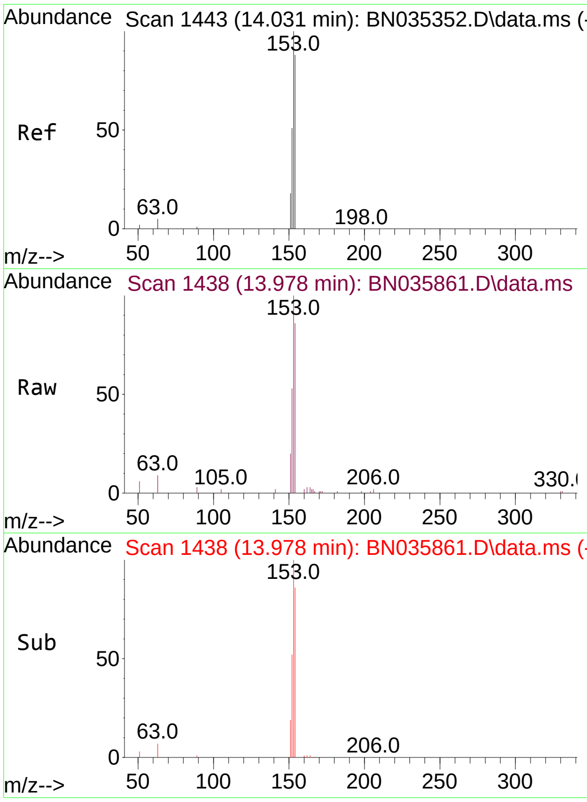


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6

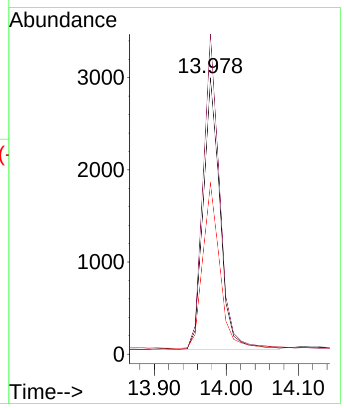




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:154 Resp: 477

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
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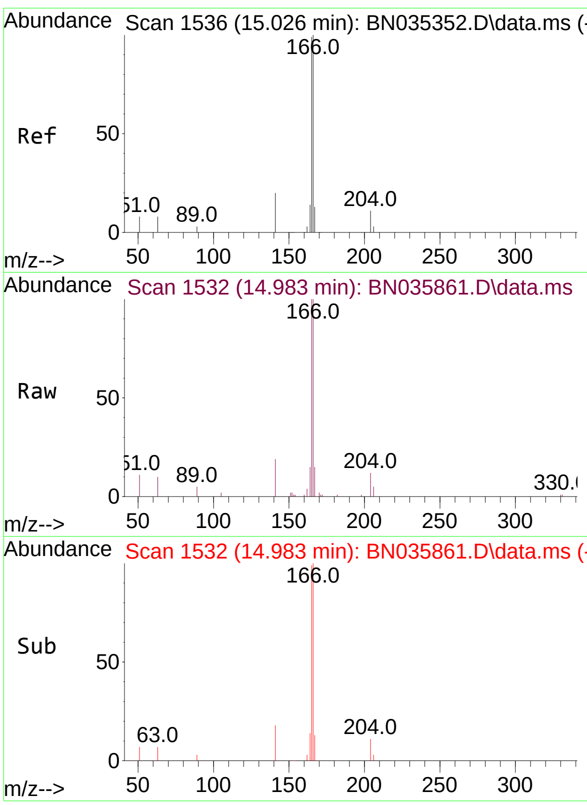
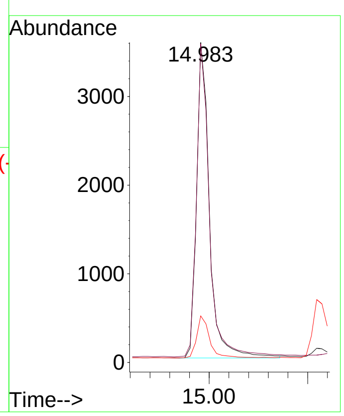


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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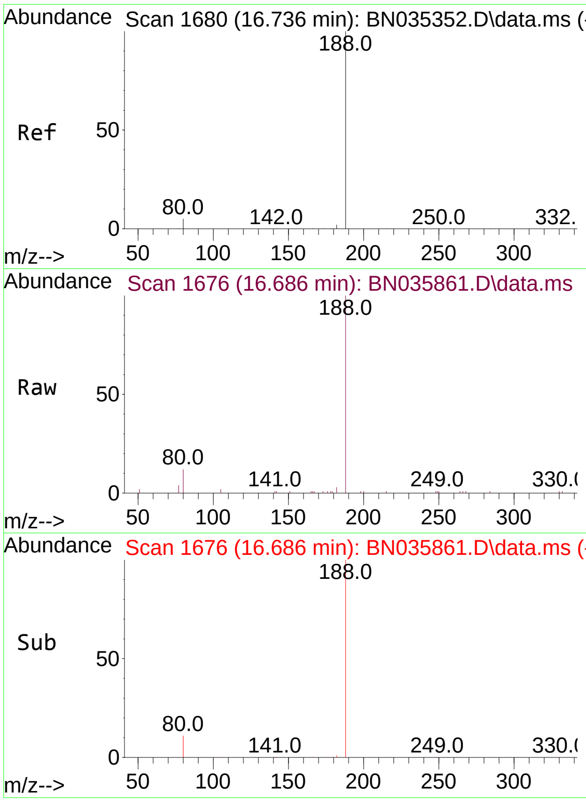
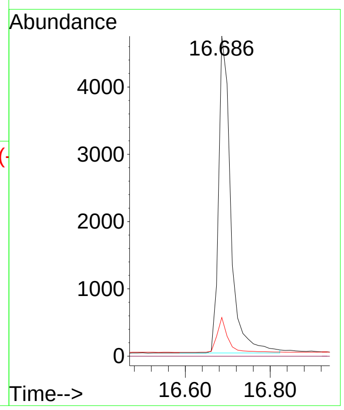
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

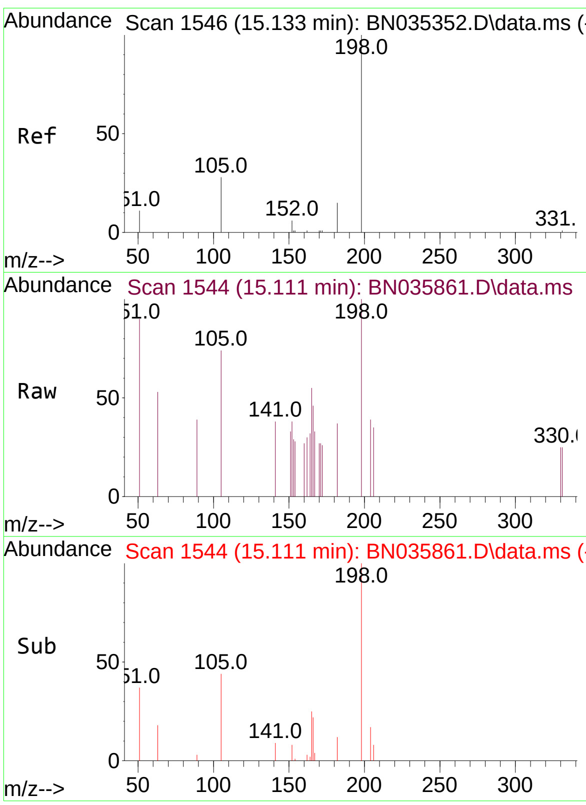


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:188 Resp: 937

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

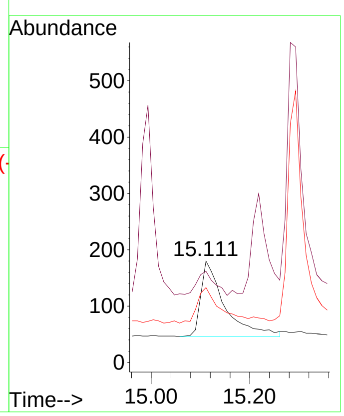




#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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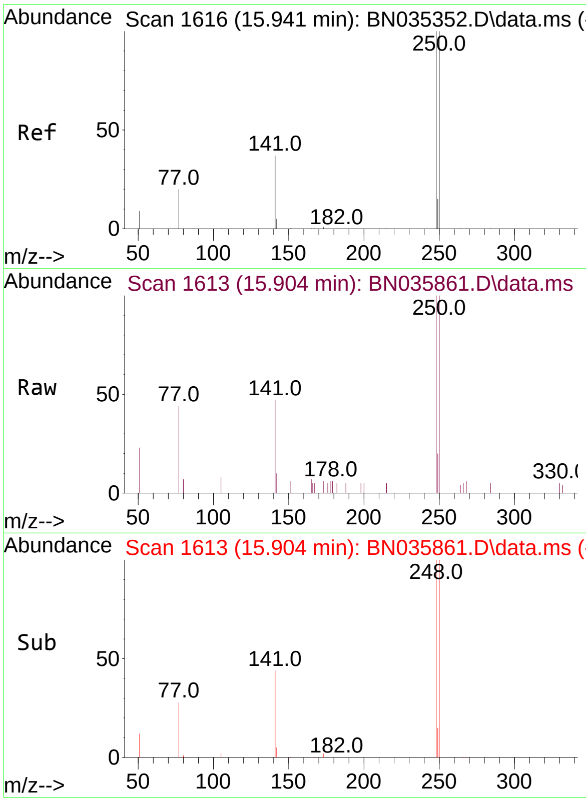
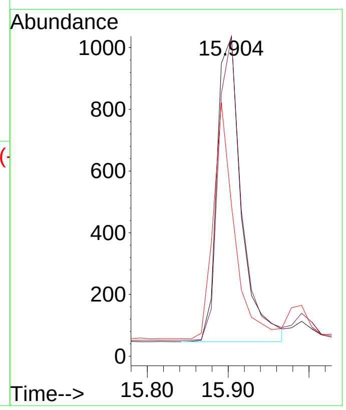
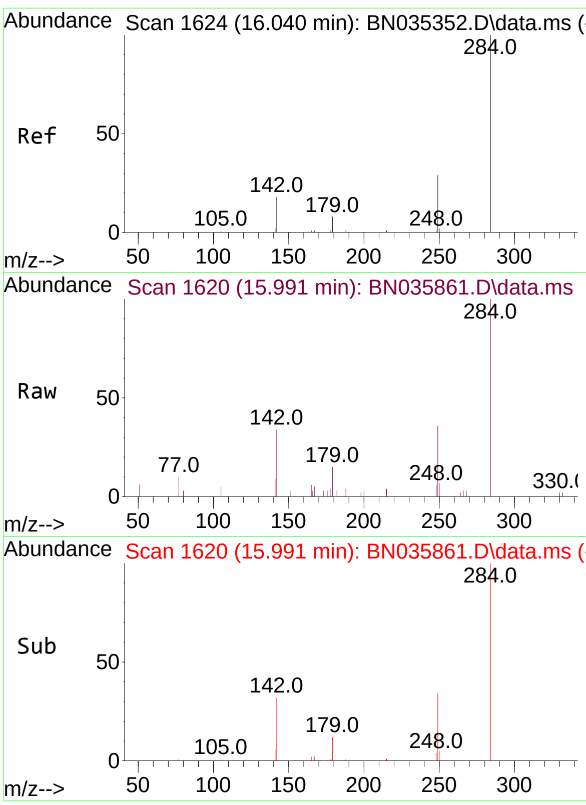


#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:248 Resp: 207

Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3

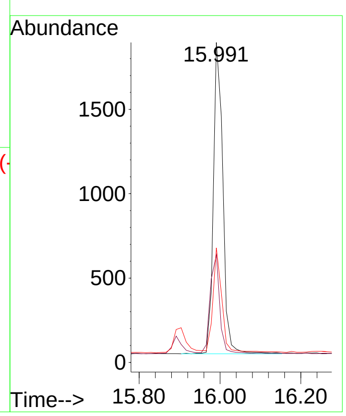




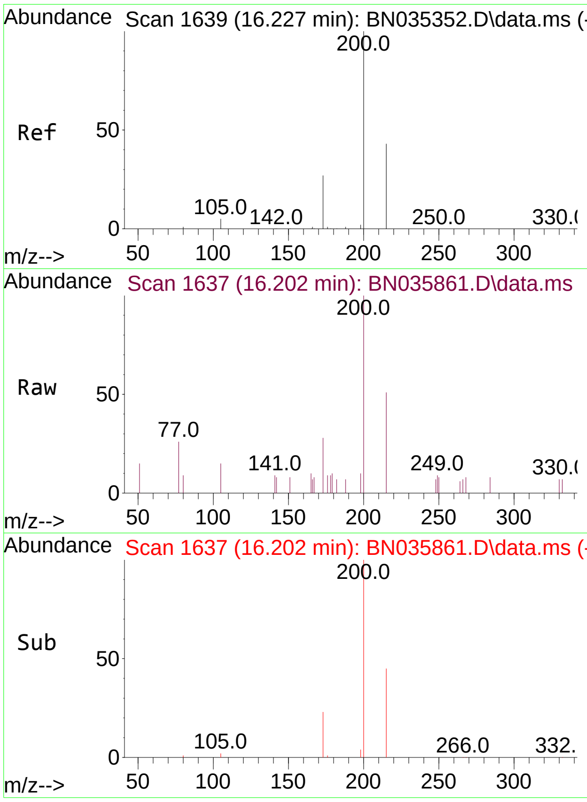
#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8



Sample Results: **BN035861.D**



#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:200 Resp: 150

Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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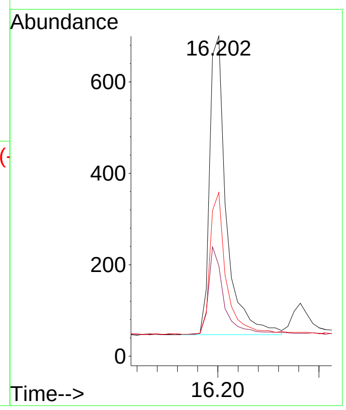
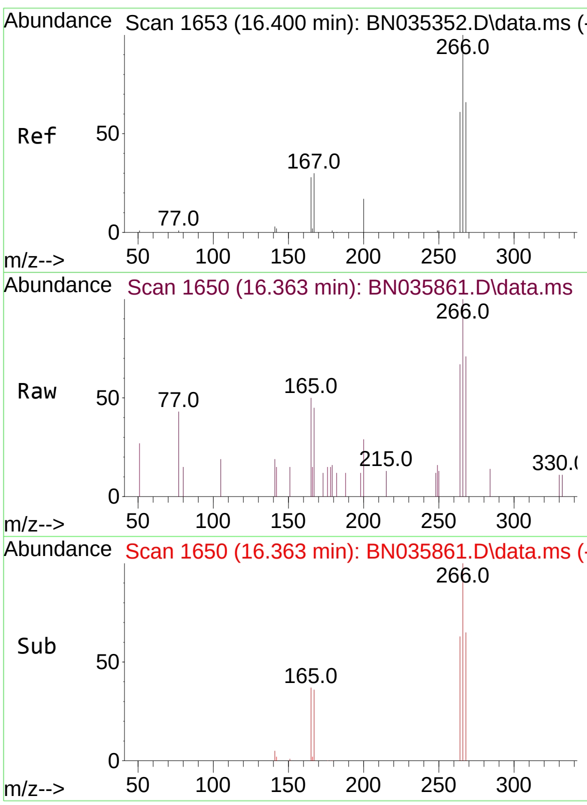
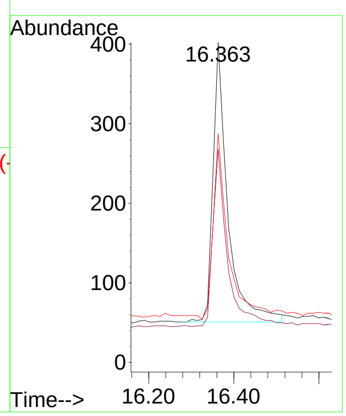




#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266 Resp: 846

Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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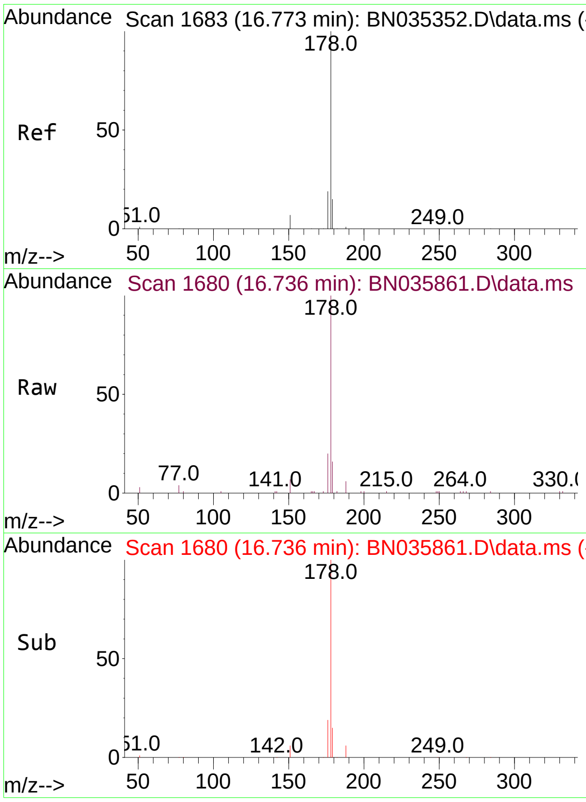
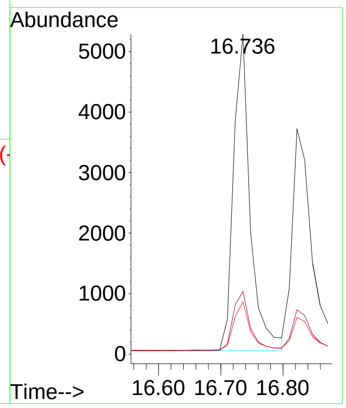
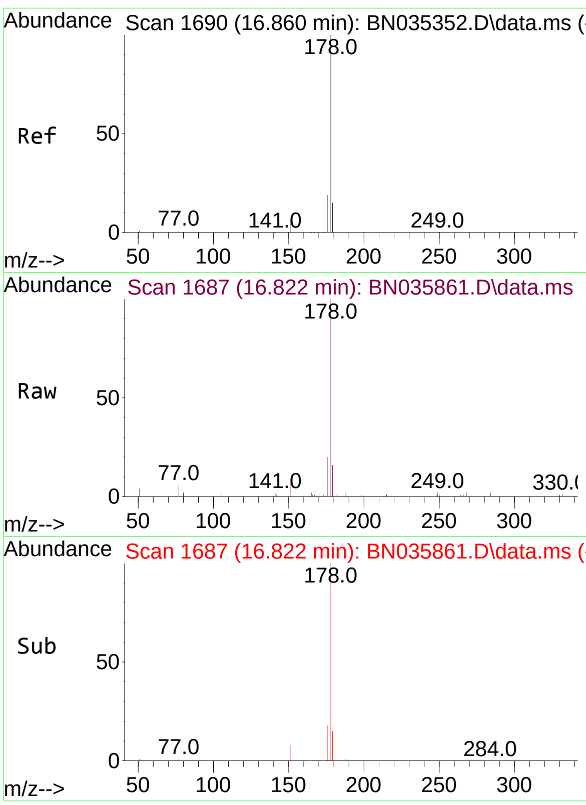
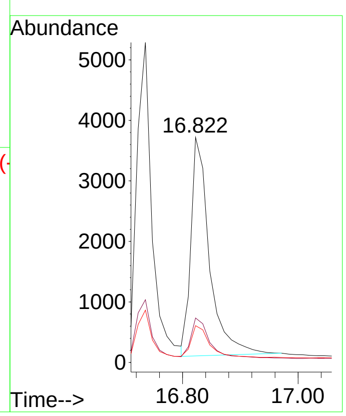



```
#25
Phenanthrene
Concen:    0.377 ng
RT:  16.736 min   Scan# 1
Delta R.T.   -0.012 min
Lab File:    BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:178 Resp:    969
Ion   Ratio   Lower   Upper
178   100
176    19.5    15.4    23.2
179    15.3    12.3    18.5
```






```
#26
Anthracene
Concen:    0.348 ng
RT:  16.822 min   Scan# 1687
Delta R.T.   -0.012 min
Lab File:    BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:178 Resp:    8100
Ion   Ratio   Lower   Upper
178   100
176    18.6    15.0    22.6
179    15.3    12.6    18.8
```



Sample Results: **BN035861.D**

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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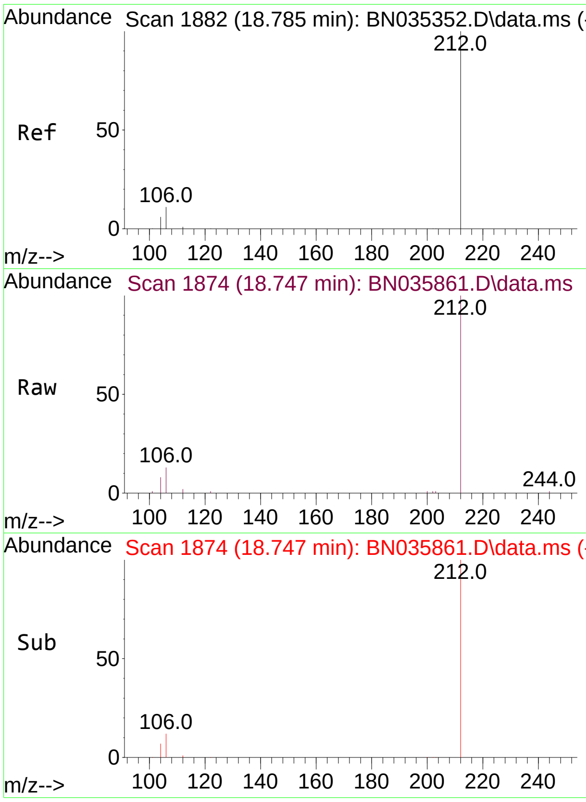
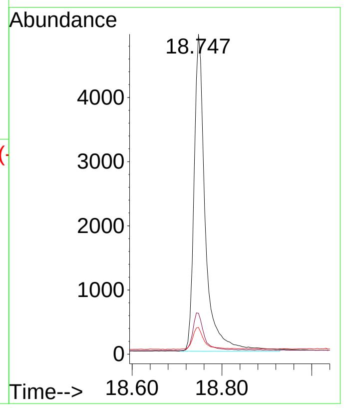
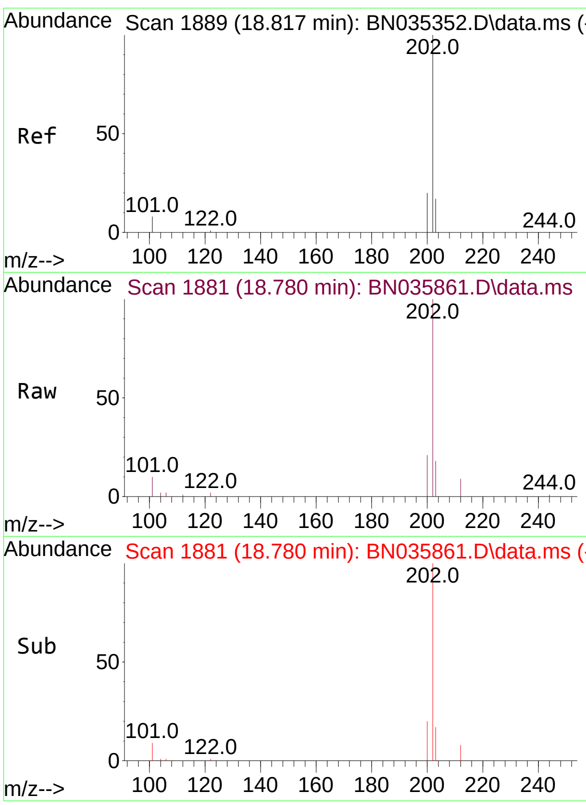


#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:212 Resp: 864

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9

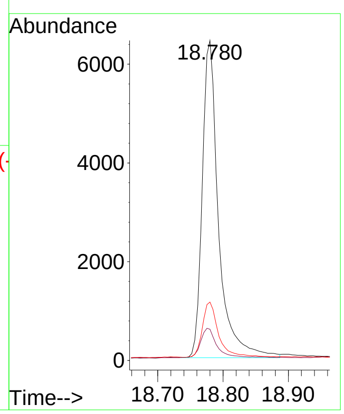


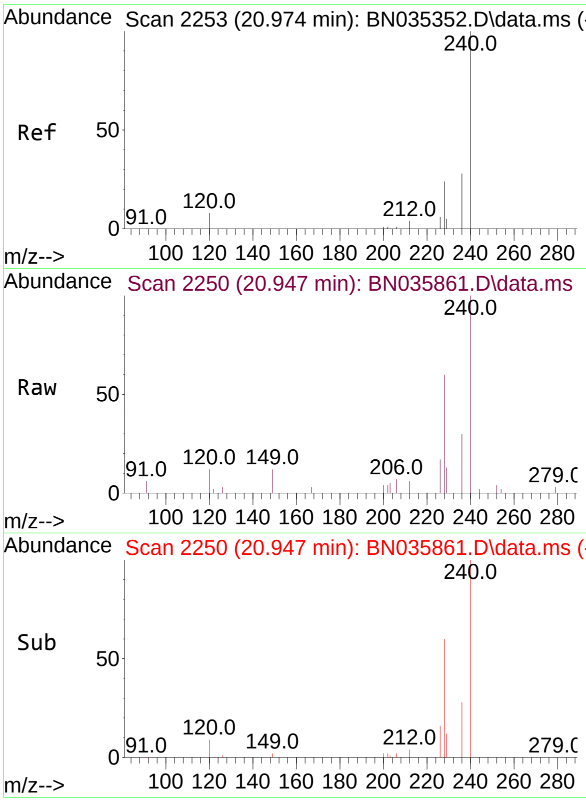


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:240 Resp: 602

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9#
236	30.1	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
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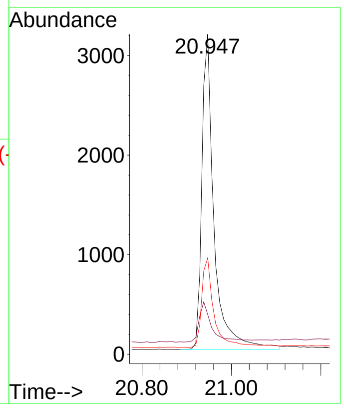
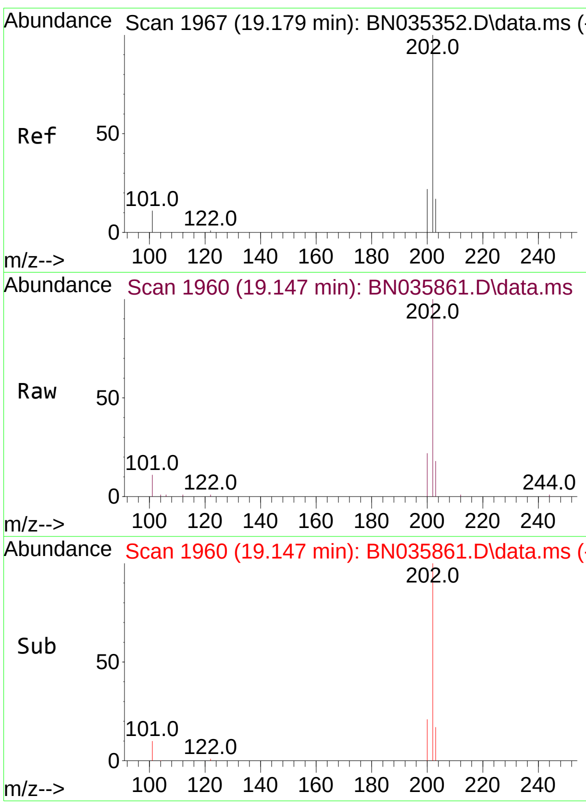
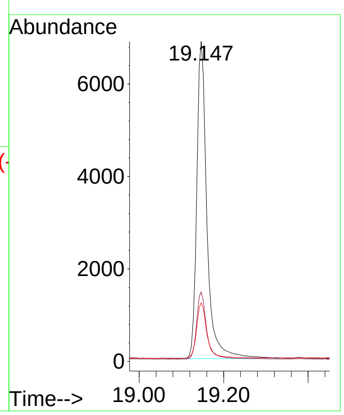




#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5



Instrument :
BNA_N
ClientSampleId :
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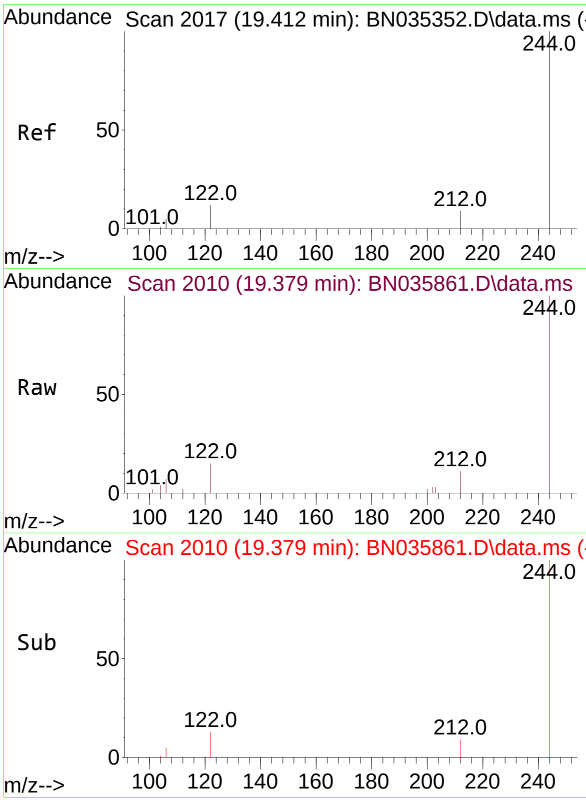
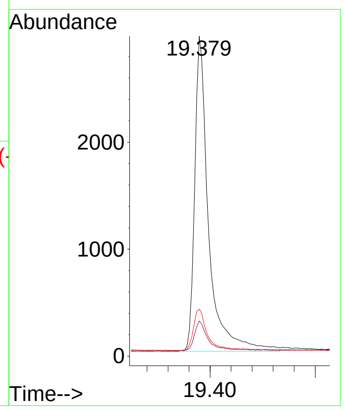
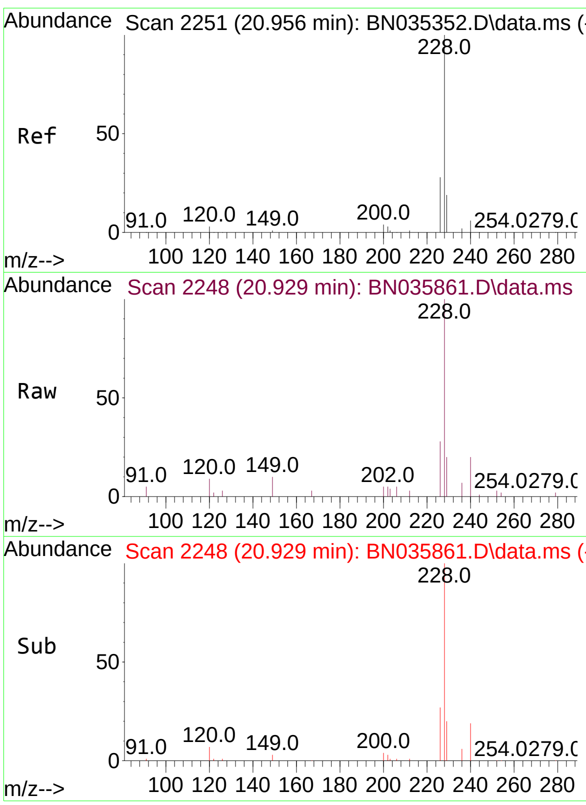


#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:244 Resp: 540

Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

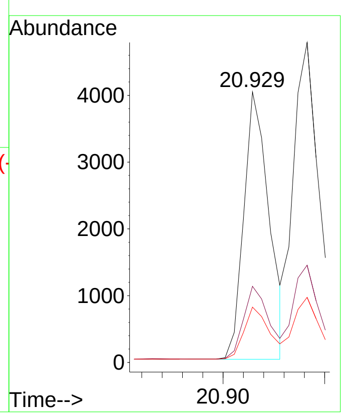




#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8



Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

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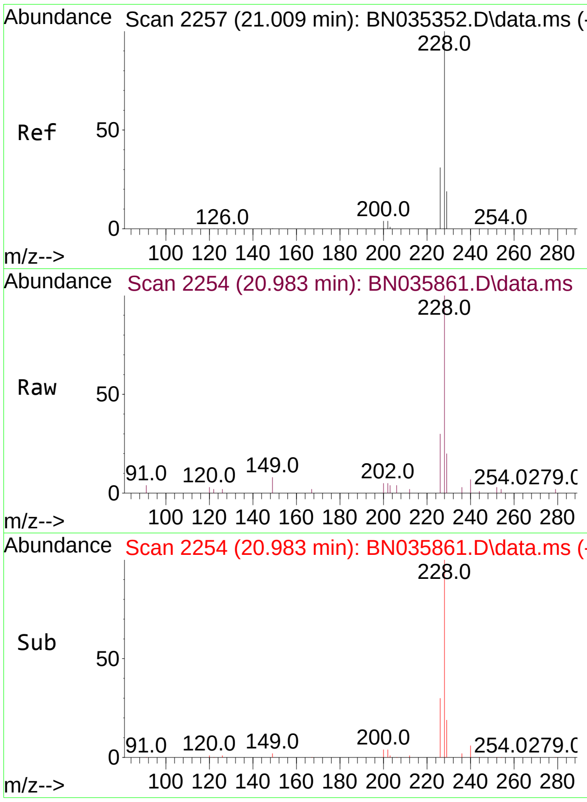
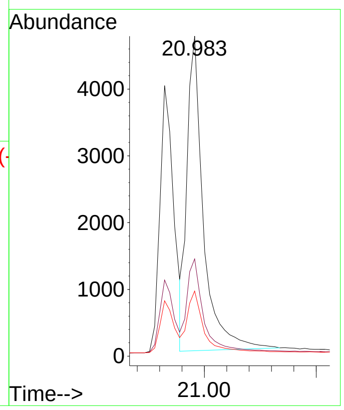
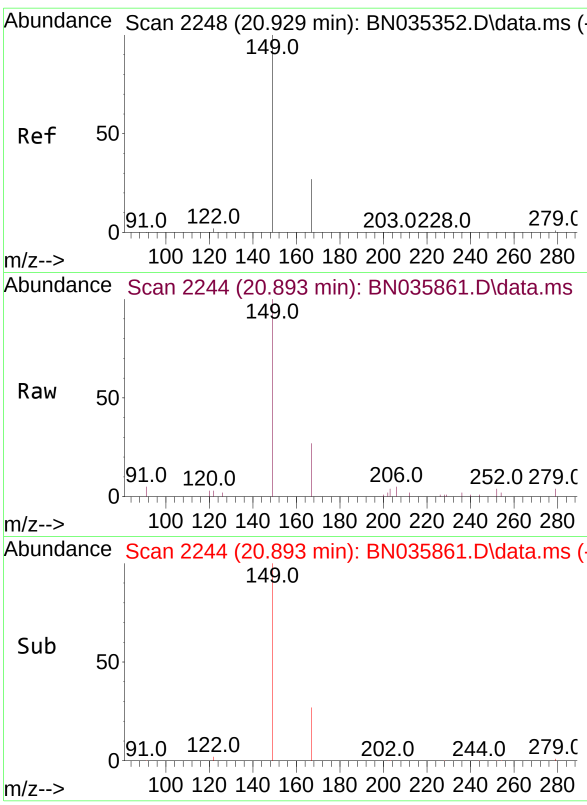


#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 957

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9

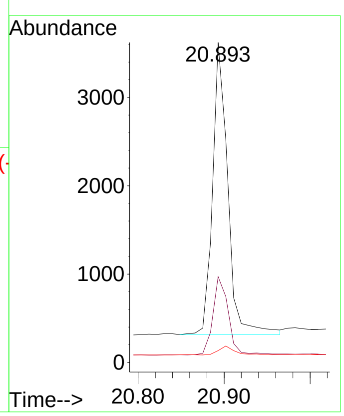


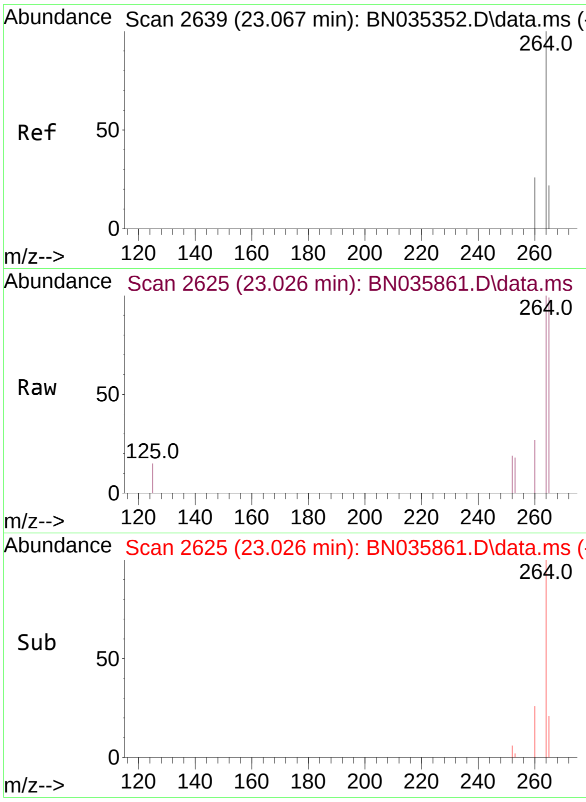


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1






```
#35
Perylene-d12
Concen:     0.400 ng
RT:  23.026 min  Scan# 2
Delta R.T.   -0.015 min
Lab File:    BN035861.D
Acq: 26 Dec 2024  19:41

Tgt Ion:264 Resp:    569
Ion  Ratio  Lower  Upper
264  100
260   26.9   21.4   32.2
265   99.1   40.2   60.4
```

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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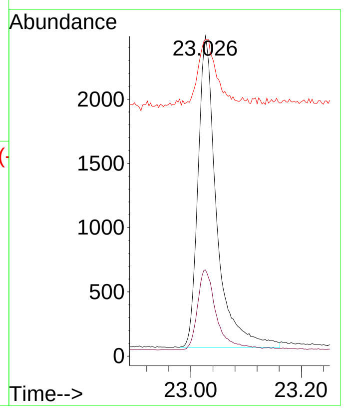
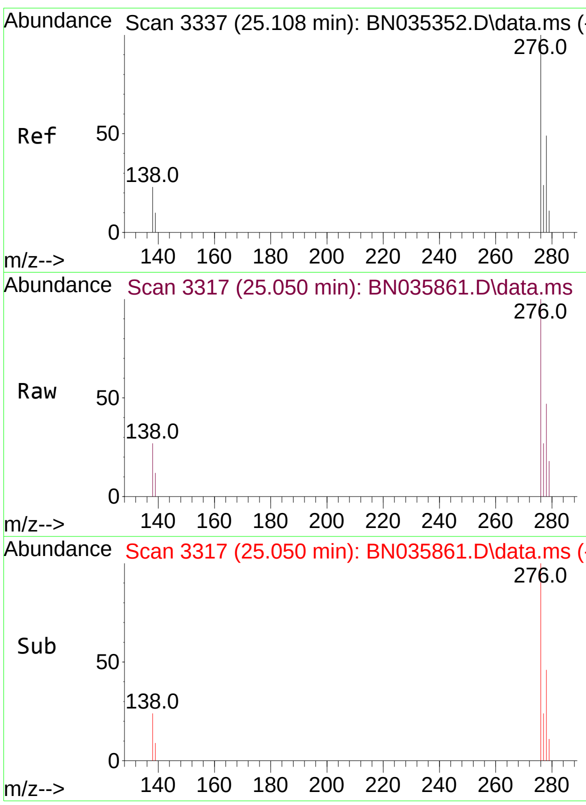
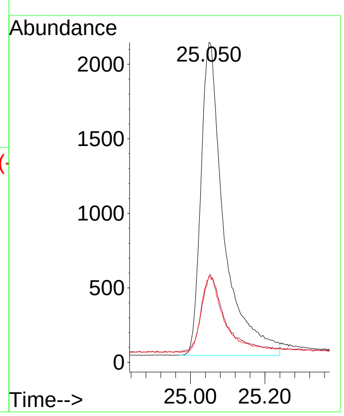





```
#36
Indeno(1,2,3-cd)pyrene
Concen:     0.405 ng
RT:  25.050 min  Scan# 3317
Delta R.T.   -0.018 min
Lab File:    BN035861.D
Acq: 26 Dec 2024  19:41

Tgt Ion:276 Resp:    9030
Ion  Ratio  Lower  Upper
276  100
138   24.8   19.4   29.0
277   23.4   19.8   29.6
```



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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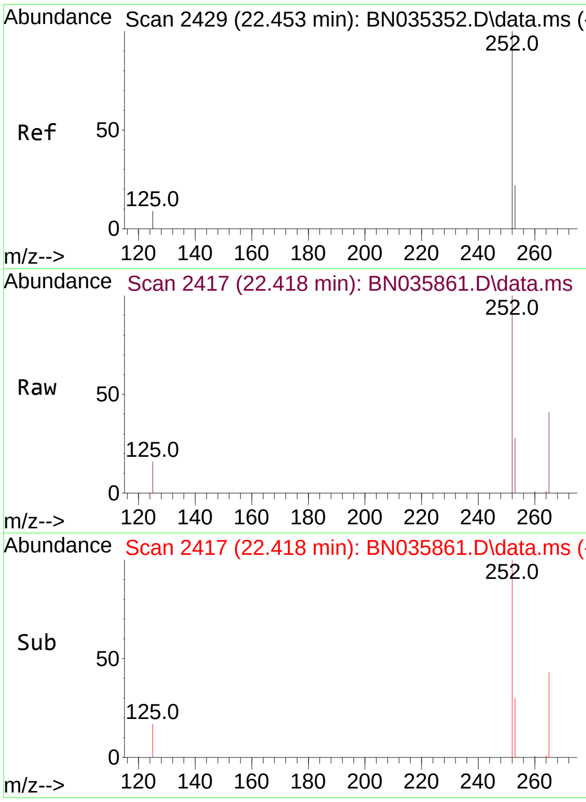
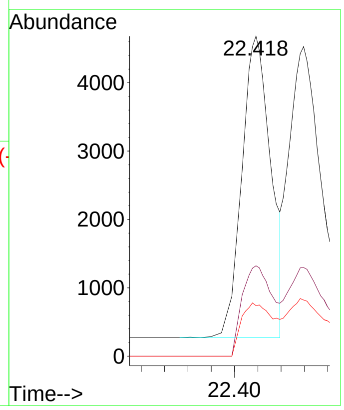
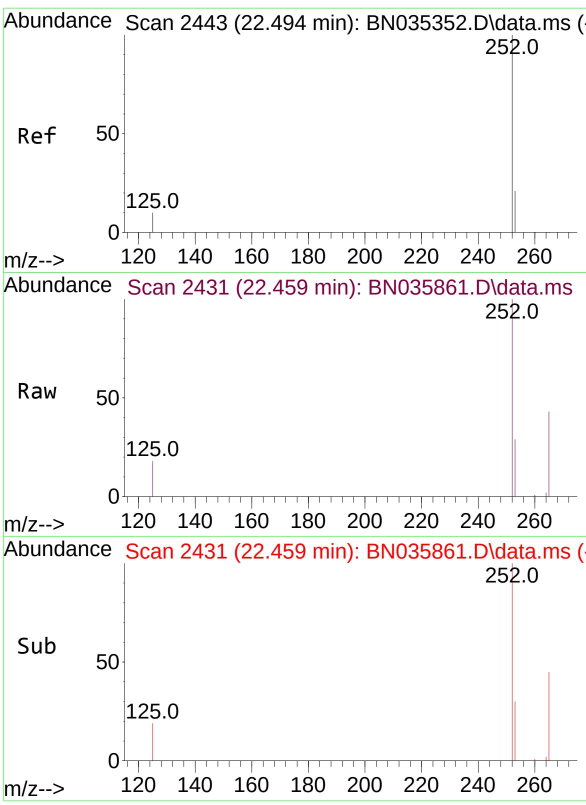


#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 1180

Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#

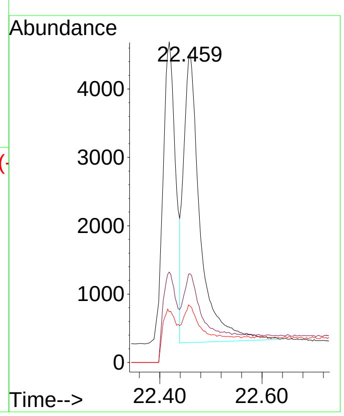


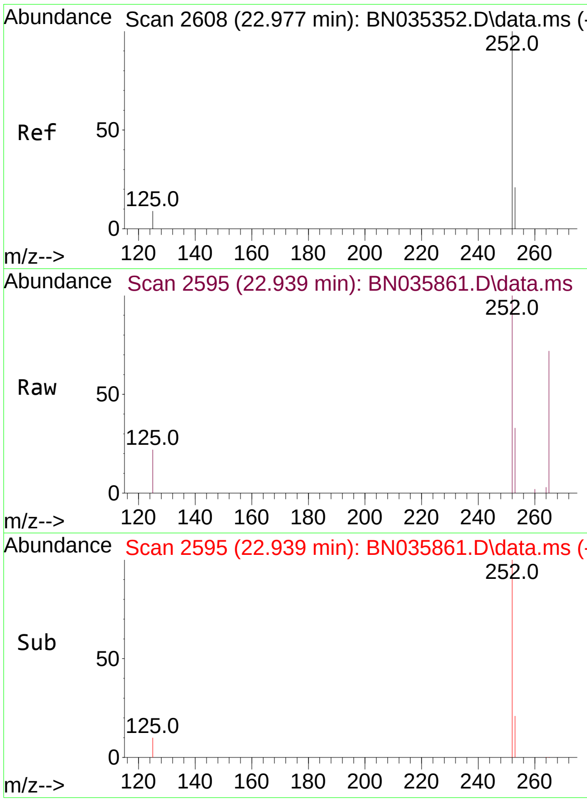


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2!
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 664

Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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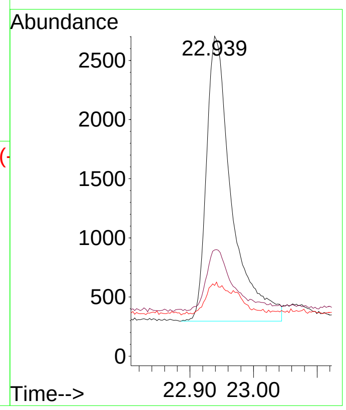
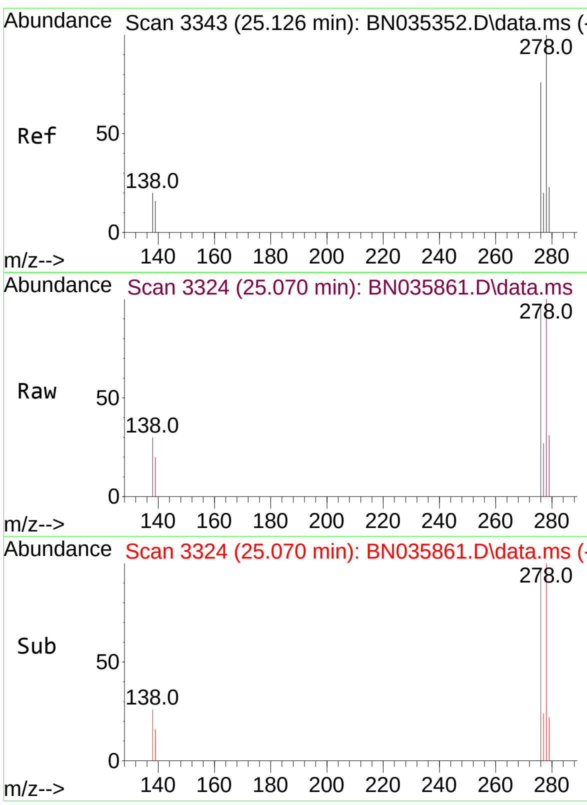
Supervised By :mohammad ahmed 12/27/2024

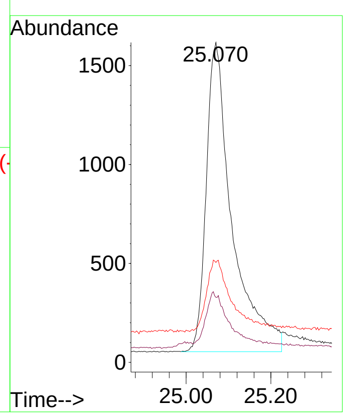


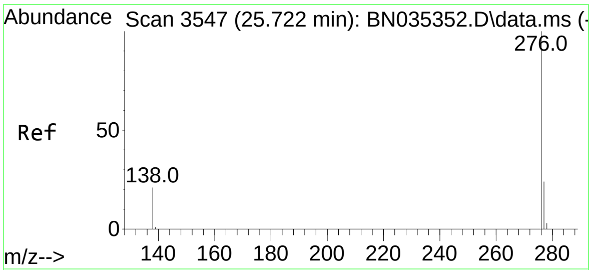


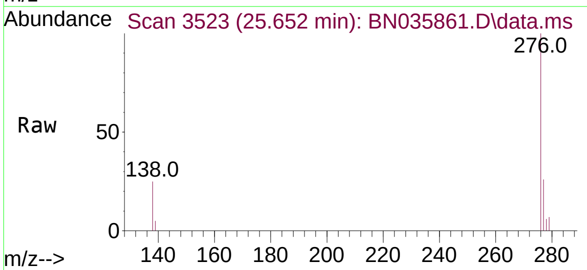
#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

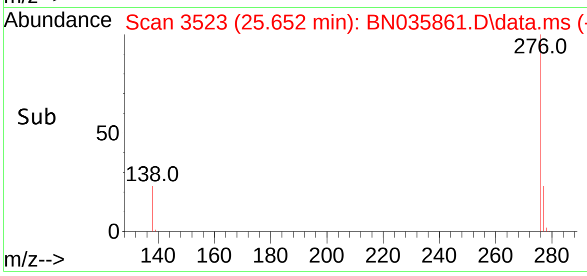
Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#





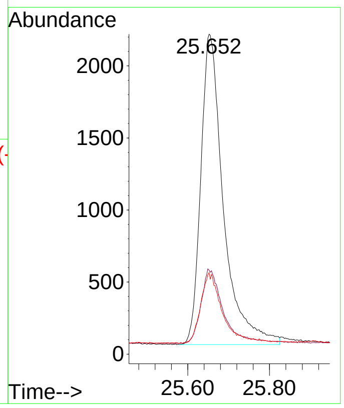




#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 830

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Sample Results: **BN035861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	151#	-0.01
2		1,4-Dioxane	0.382	0.394	-3.1	158#	0.00
3		n-Nitrosodimethylamine	0.319	0.331	-3.8	153#	0.00
4	S	2-Fluorophenol	1.001	0.931	7.0	138	-0.01
5	S	Phenol-d6	1.204	1.022	15.1	129	-0.02
6		bis(2-Chloroethyl)ether	1.012	0.883	12.7	134	-0.02
7	I	Naphthalene-d8	1.000	1.000	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.244	0.306	-25.4#	180#	-0.01
9		Naphthalene	1.055	1.038	1.6	137	-0.01
10		Hexachlorobutadiene	0.243	0.275	-13.2	154#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.551	12.0	123	-0.02
12		2-Methylnaphthalene	0.755	0.655	13.2	123	-0.02
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.284	0.225	20.8	103	-0.01
15	S	2-Fluorobiphenyl	1.512	1.480	2.1	115	-0.02
16		Acenaphthylene	1.680	1.548	7.9	114	-0.02
17		Acenaphthene	1.115	1.068	4.2	116	-0.02
18		Fluorene	1.596	1.449	9.2	110	-0.02
19	I	Phenanthrene-d10	1.000	1.000	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.048	-23.1	134	-0.01
21		4-Bromophenyl-phenylether	0.234	0.221	5.6	97	-0.01
22		Hexachlorobenzene	0.275	0.322	-17.1	116	-0.02
23		Atrazine	0.167	0.161	3.6	103	0.00
24		Pentachlorophenol	0.120	0.090	25.0	93	-0.01
25		Phenanthrene	1.099	1.035	5.8	96	-0.01
26		Anthracene	0.994	0.864	13.1	91	-0.01
27	SURR	Fluoranthene-d10	1.134	0.922	18.7	85	-0.01
28		Fluoranthene	1.481	1.189	19.7	83	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	63	0.00
30		Pyrene	1.477	1.909	-29.2#	82	-0.01
31	S	Terphenyl-d14	0.789	0.898	-13.8	72	0.00
32		Benzo(a)anthracene	1.399	1.146	18.1	53	0.00
33		Chrysene	1.443	1.591	-10.3	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.676	-22.2	83	-0.02
35	I	Perylene-d12	1.000	1.000	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.584	-1.3	54	-0.02
37		Benzo(b)fluoranthene	1.463	2.071	-41.6#	83	-0.01
38		Benzo(k)fluoranthene	1.440	1.691	-17.4	63	-0.01
39	C	Benzo(a)pyrene	1.205	1.165	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	1.234	1.164	5.7	51	-0.01
41		Benzo(g,h,i)perylene	1.289	1.456	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035861.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 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	151	-0.01
2		1,4-Dioxane	0.400	0.412	-3.0	158	0.00
3		n-Nitrosodimethylamine	0.400	0.415	-3.7	153	0.00
4	S	2-Fluorophenol	0.400	0.372	7.0	138	-0.01
5	S	Phenol-d6	0.400	0.340	15.0	129	-0.02
6		bis(2-Chloroethyl)ether	0.400	0.349	12.8	134	-0.02
7	I	Naphthalene-d8	0.400	0.400	0.0	138	-0.02
8	S	Nitrobenzene-d5	0.400	0.501	-25.2#	180	-0.01
9		Naphthalene	0.400	0.394	1.5	137	-0.01
10		Hexachlorobutadiene	0.400	0.452	-13.0	154	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.352	12.0	123	-0.02
12		2-Methylnaphthalene	0.400	0.347	13.3	123	-0.02
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	-0.02
14	S	2,4,6-Tribromophenol	0.400	0.318	20.5	103	-0.01
15	S	2-Fluorobiphenyl	0.400	0.392	2.0	115	-0.02
16		Acenaphthylene	0.400	0.369	7.8	114	-0.02
17		Acenaphthene	0.400	0.383	4.3	116	-0.02
18		Fluorene	0.400	0.363	9.3	110	-0.02
19	I	Phenanthrene-d10	0.400	0.400	0.0	99	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.492	-23.0	134	-0.01
21		4-Bromophenyl-phenylether	0.400	0.378	5.5	97	-0.01
22		Hexachlorobenzene	0.400	0.468	-17.0	116	-0.02
23		Atrazine	0.400	0.386	3.5	103	0.00
24		Pentachlorophenol	0.400	0.302	24.5	93	-0.01
25		Phenanthrene	0.400	0.377	5.8	96	-0.01
26		Anthracene	0.400	0.348	13.0	91	-0.01
27	SURR	Fluoranthene-d10	0.400	0.325	18.8	85	-0.01
28		Fluoranthene	0.400	0.321	19.8	83	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	63	0.00
30		Pyrene	0.400	0.517	-29.3#	82	-0.01
31	S	Terphenyl-d14	0.400	0.455	-13.7	72	0.00
32		Benzo(a)anthracene	0.400	0.328	18.0	53	0.00
33		Chrysene	0.400	0.441	-10.2	70	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.489	-22.2	83	-0.02
35	I	Perylene-d12	0.400	0.400	0.0	53	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.405	-1.3	54	-0.02
37		Benzo(b)fluoranthene	0.400	0.566	-41.5#	83	-0.01
38		Benzo(k)fluoranthene	0.400	0.470	-17.5	63	-0.01
39	C	Benzo(a)pyrene	0.400	0.387	3.3	53	-0.01
40		Dibenzo(a,h)anthracene	0.400	0.377	5.8	51	-0.01
41		Benzo(g,h,i)perylene	0.400	0.452	-13.0	61	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

QC SAMPLE DATA

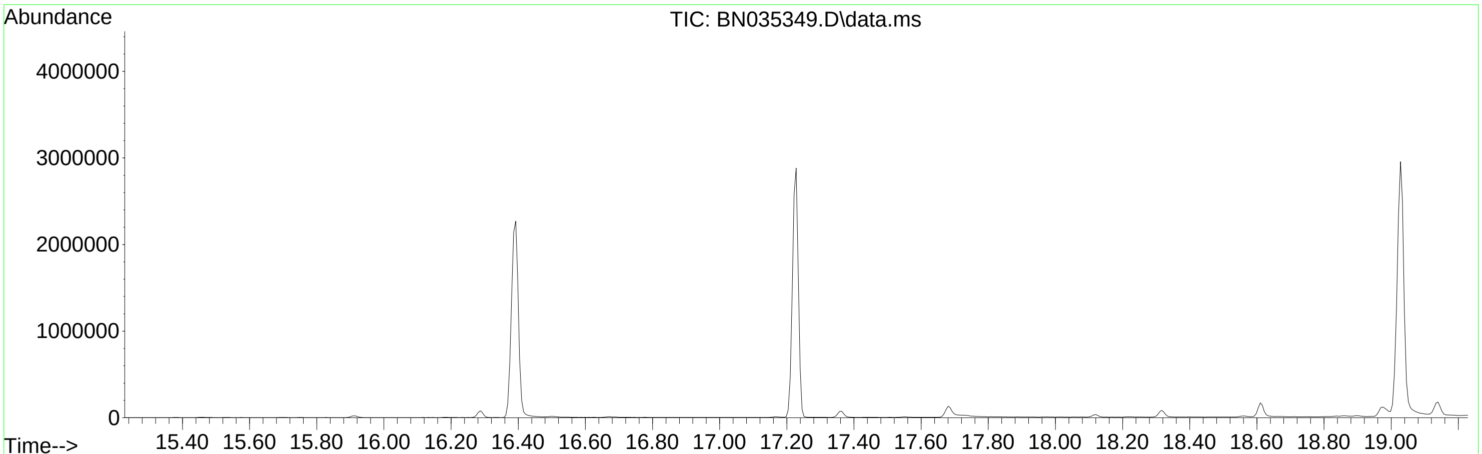
Sample Results: **BN035349.D**

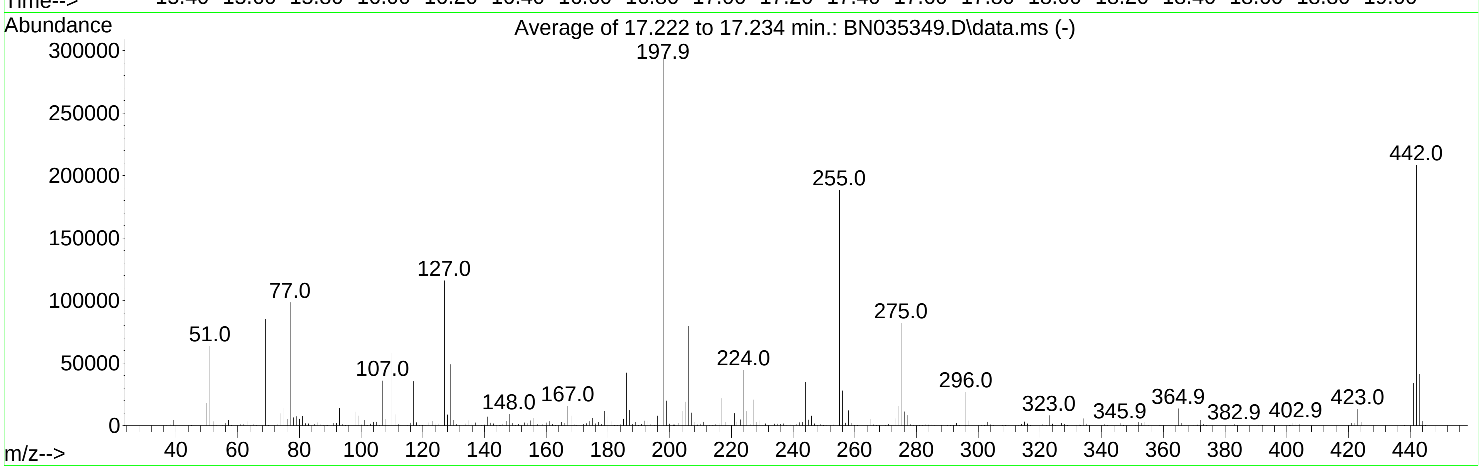
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

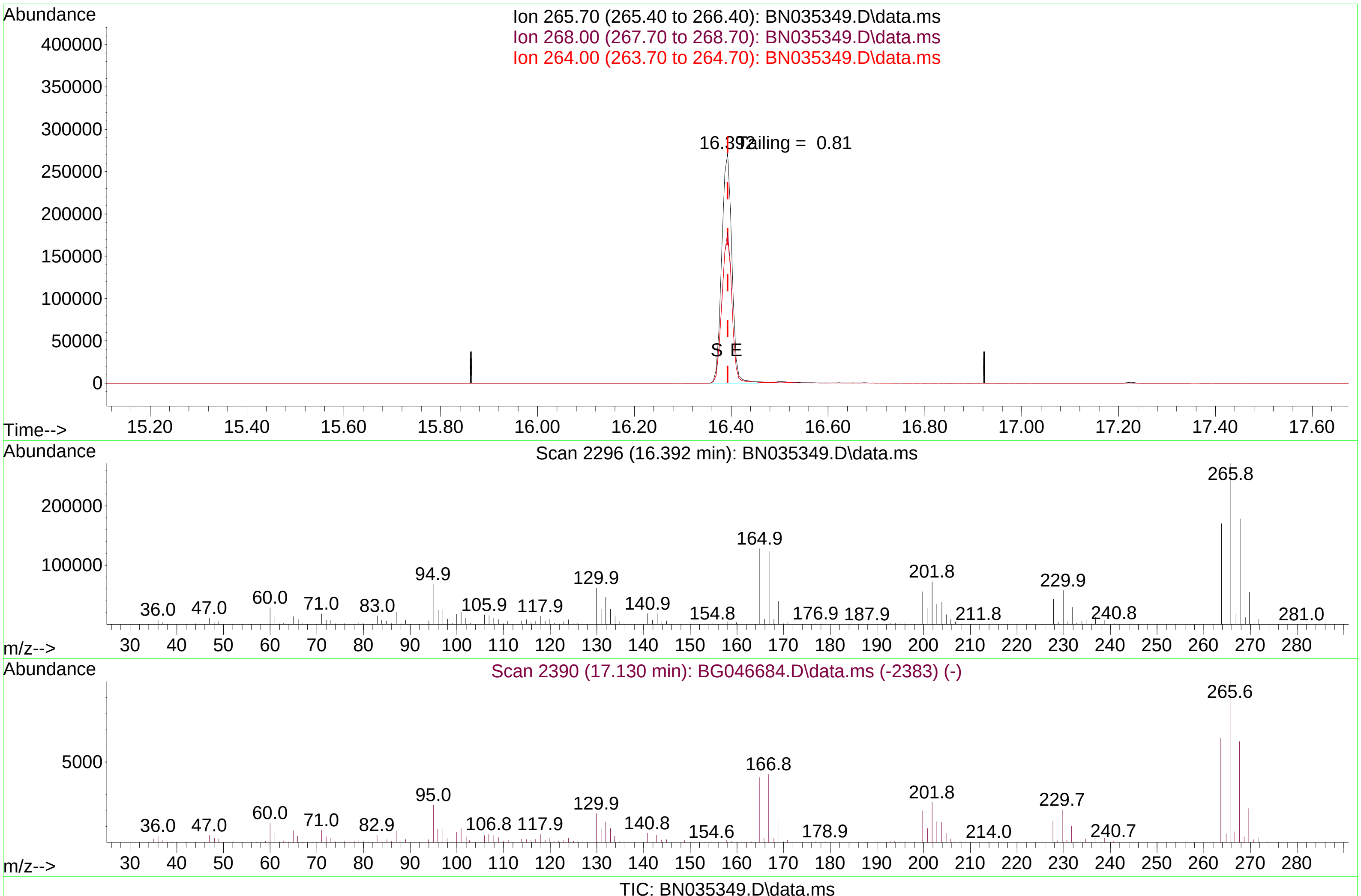
Quantitation Report (Qedit)

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



(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

response 398074

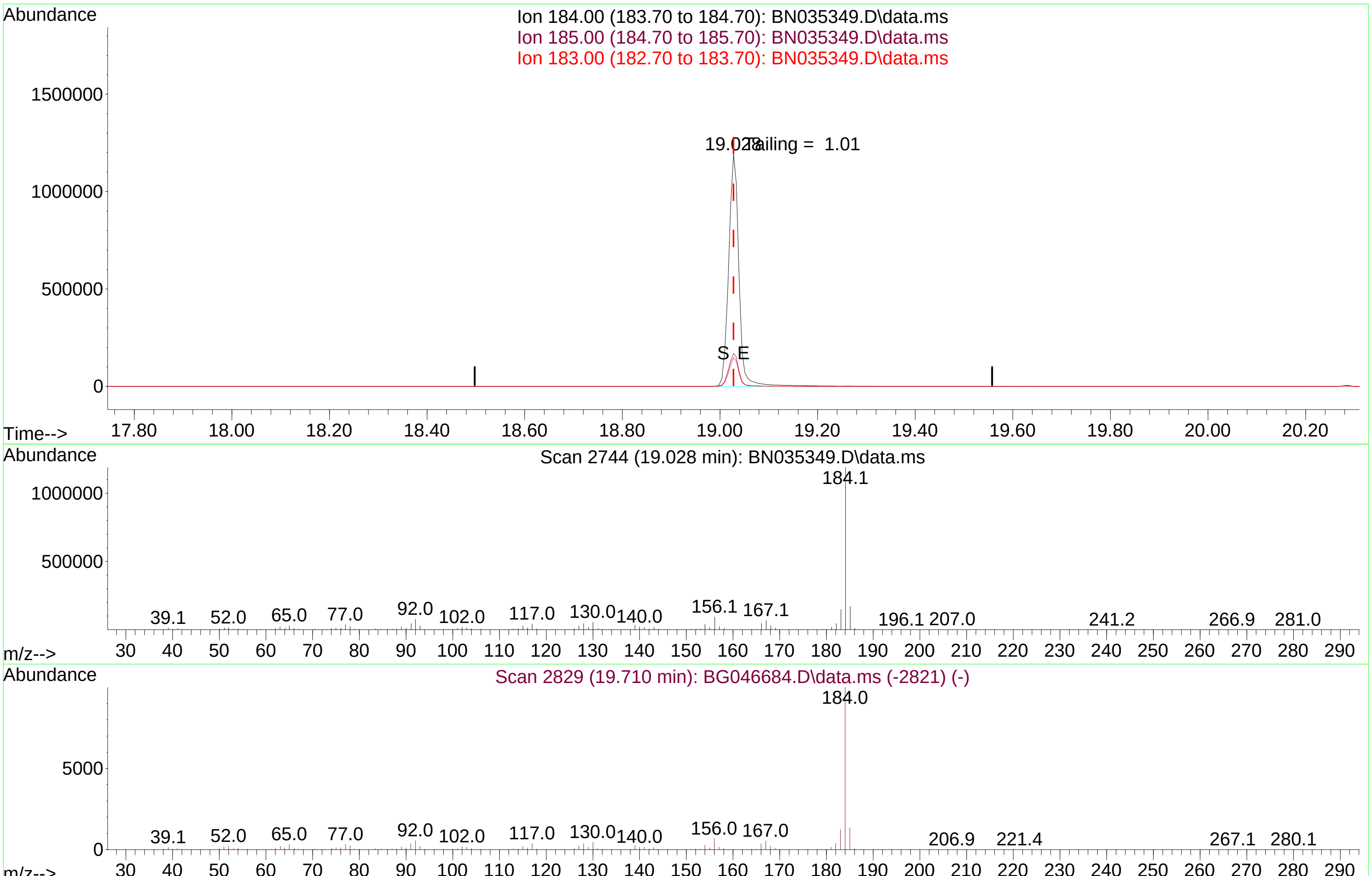
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

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

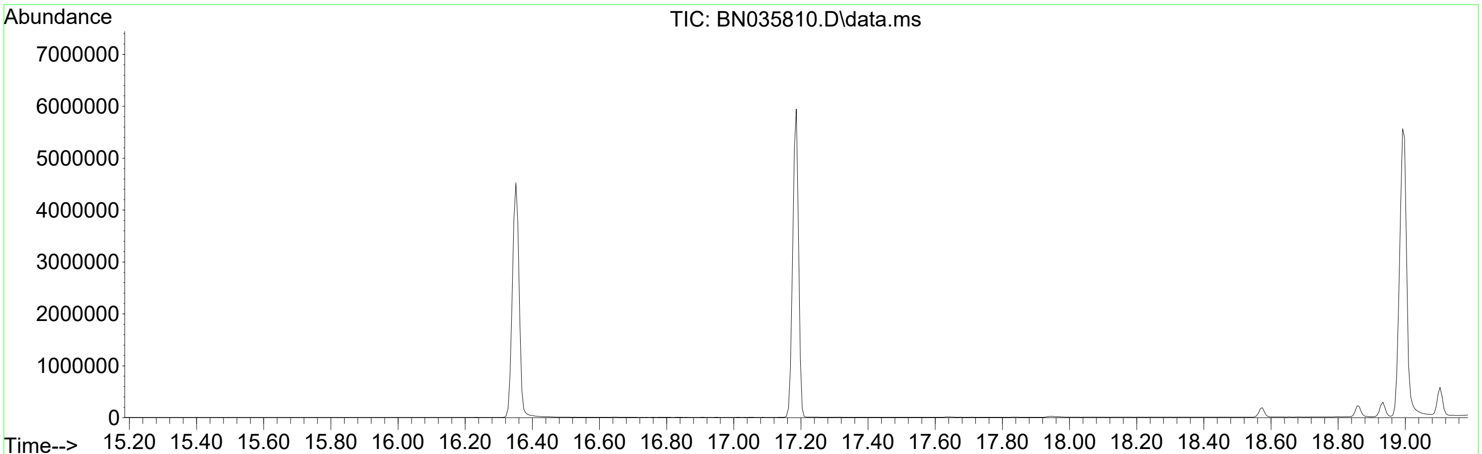
Sample Results: **BN035810.D**

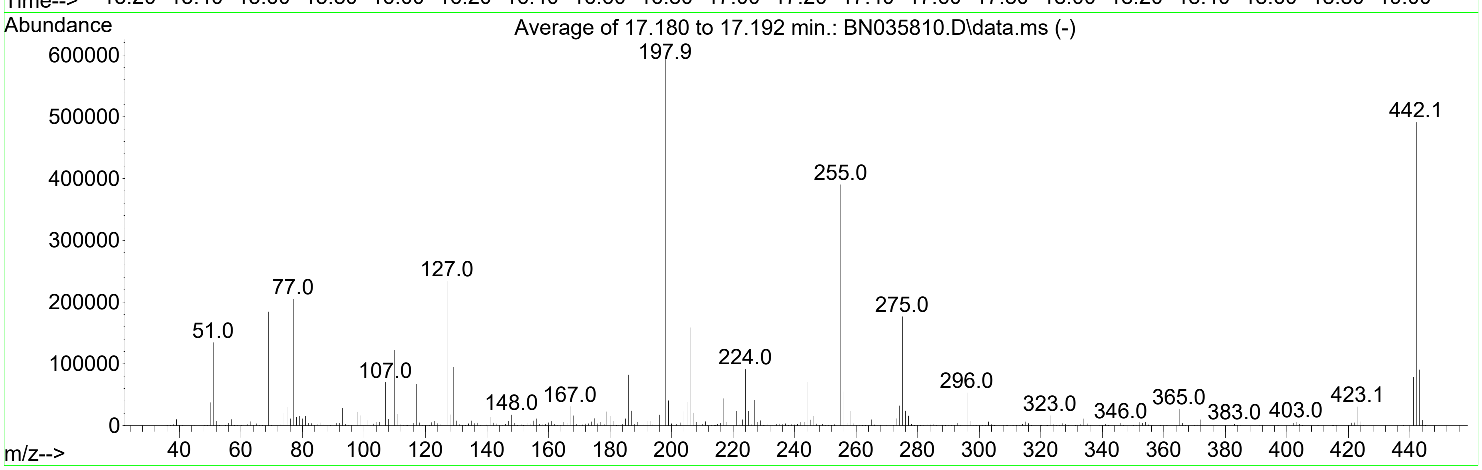
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On    : 24 Dec 2024  07:45
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

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  : Thu Dec 19 23:06:19 2024
```

Instrument :
BNA_N
ClientSampleId :
DFTPP





AutoFind: Scans 2430, 2431, 2432; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.6	134565	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.9	184267	PASS
70	69	0.00	2	0.5	1000	PASS
127	198	10	80	39.2	233707	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	595477	PASS
199	198	5	9	6.8	40509	PASS
275	198	10	60	29.6	176405	PASS
365	198	1	100	4.5	26707	PASS
441	198	0.01	100	13.2	78309	PASS
442	442	50	100	100.0	490880	PASS
443	442	15	24	18.4	90491	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035810.D
Compound Name	Response	Retention Time
DDT	1784590	20.251
DDD	187693	19.804
DDE	5273	19.286
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
192966	1977556	9.76

Instrument :
BNA_N
ClientSampleId :
DFTPP

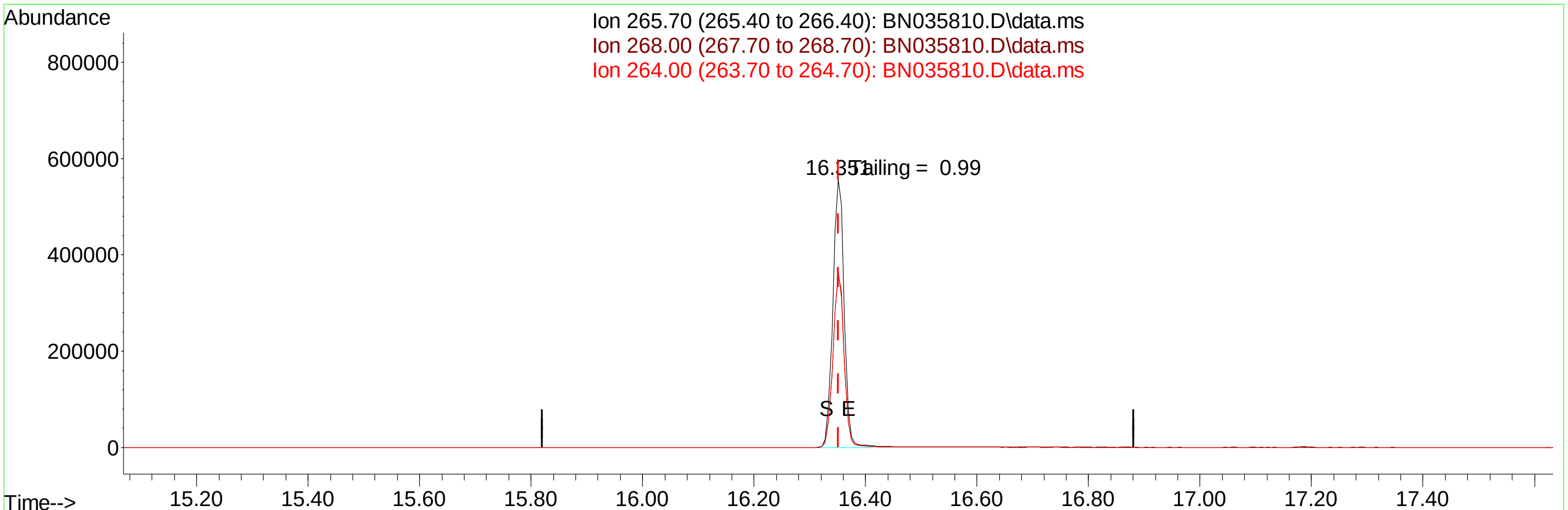
Quantitation Report (Qedit)

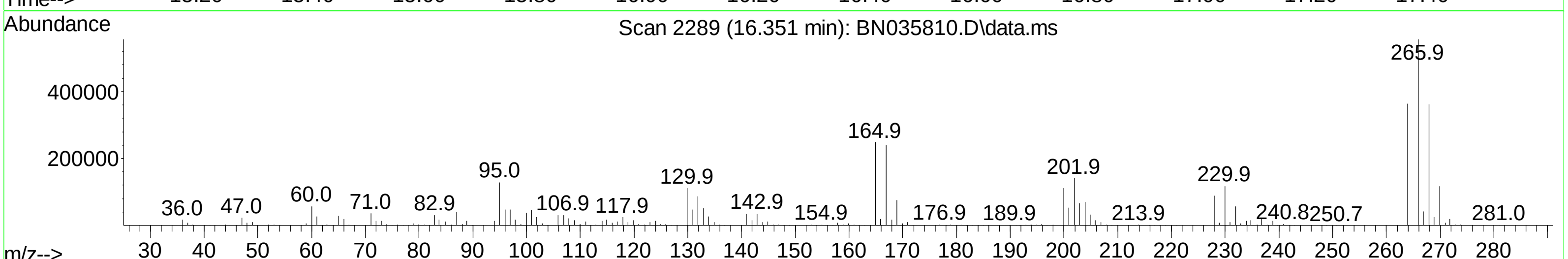
Sample Results: **BN035810.D**

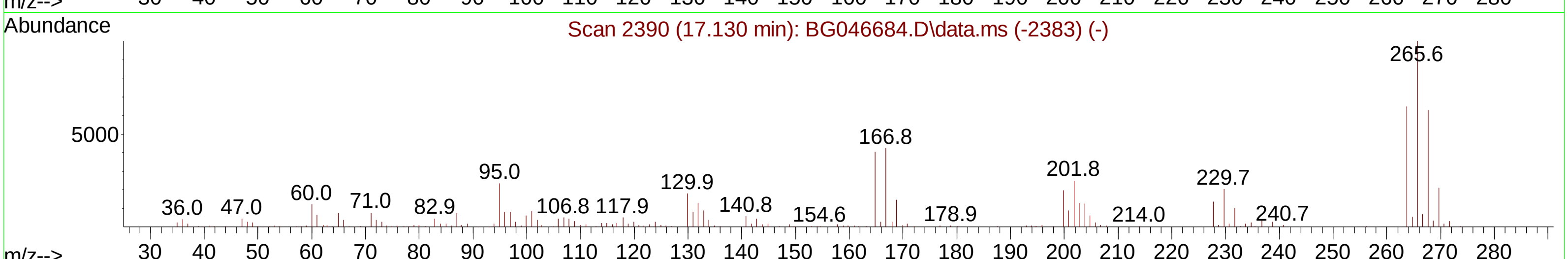
```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On    : 24 Dec 2024  07:45
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 25 00:46:53 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 25 00:46:49 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
DFTPP







TIC: BN035810.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26136.96 ng

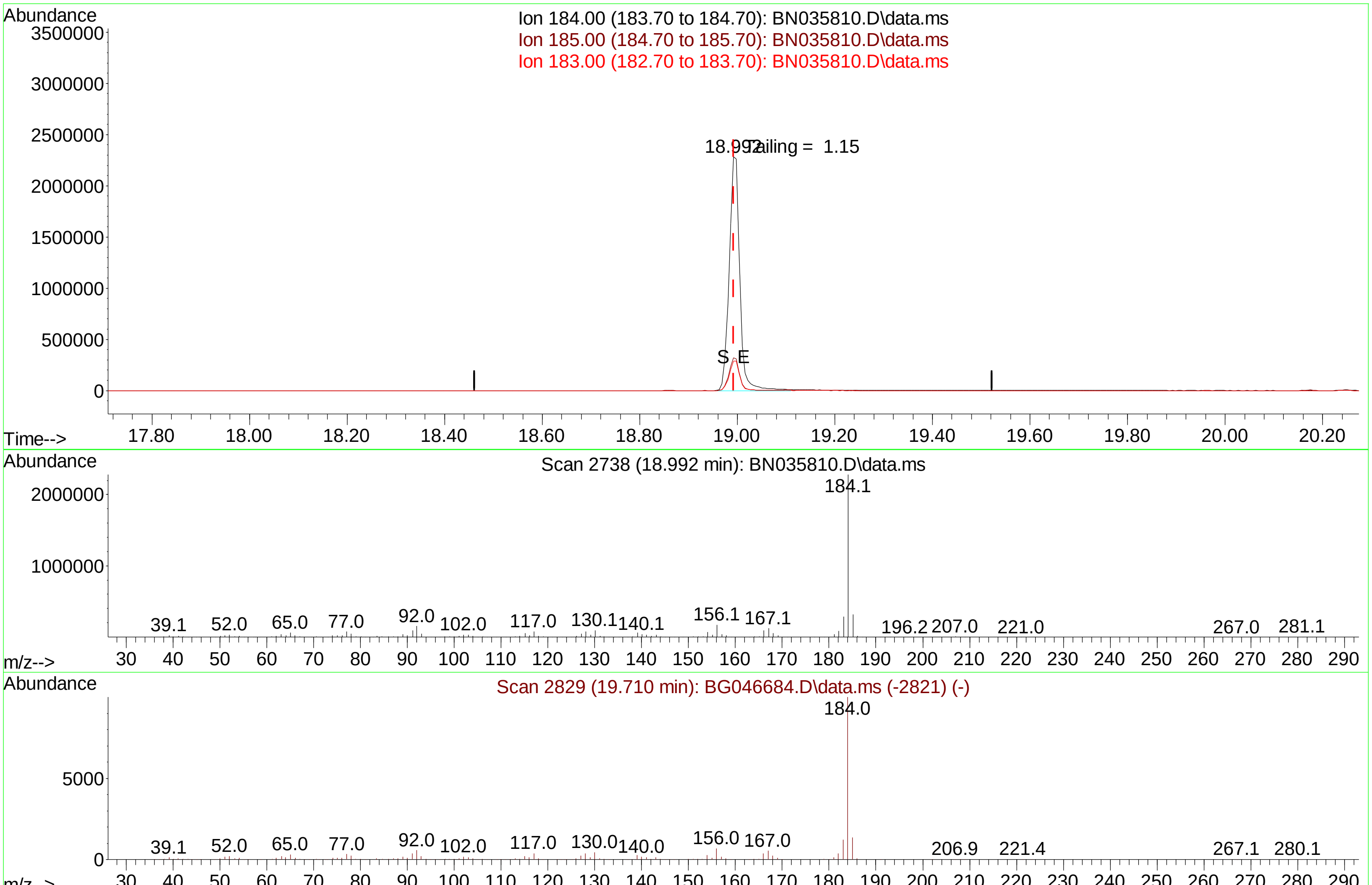
response 791954

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.05
264.00	61.60	65.35
0.00	0.00	0.00

```
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035810.D
Acq On    : 24 Dec 2024  07:45
Operator  : RC/JU
Sample    : DFTPP
Misc      :
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: Dec 25 00:46:53 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 25 00:46:49 2024
Response via : Initial Calibration
```

Instrument :
BNA_N
ClientSampleId :
DFTPP



TIC: BN035810.D\data.ms

(77) Benzidine

18.992min (0.000) 0.00 ng

response 3507772

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.96
183.00	13.20	12.67
0.00	0.00	0.00

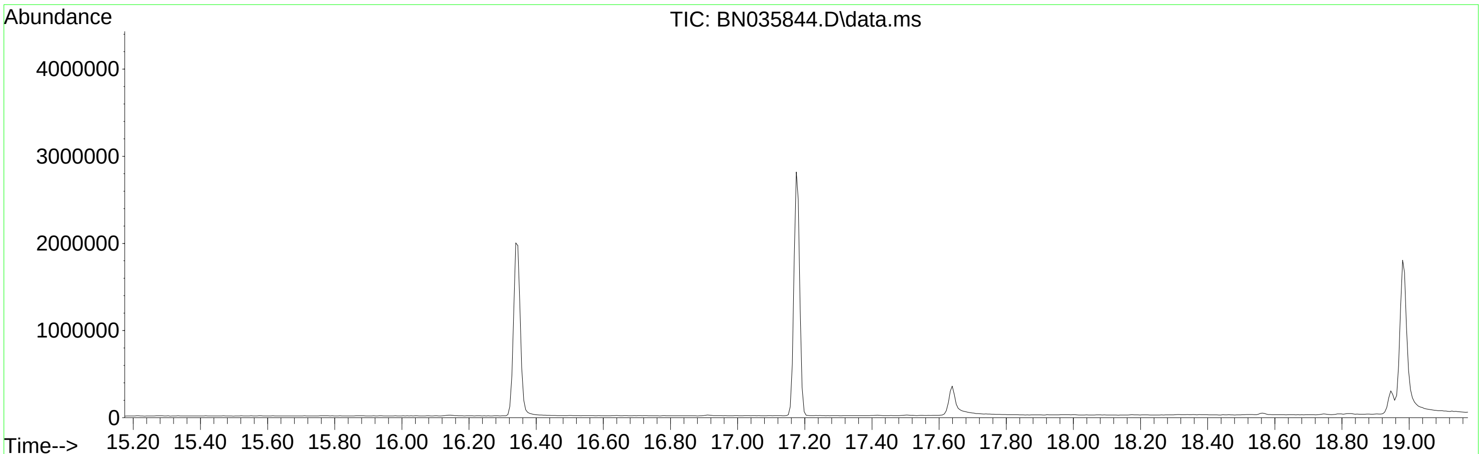
Sample Results: **BN035844.D**

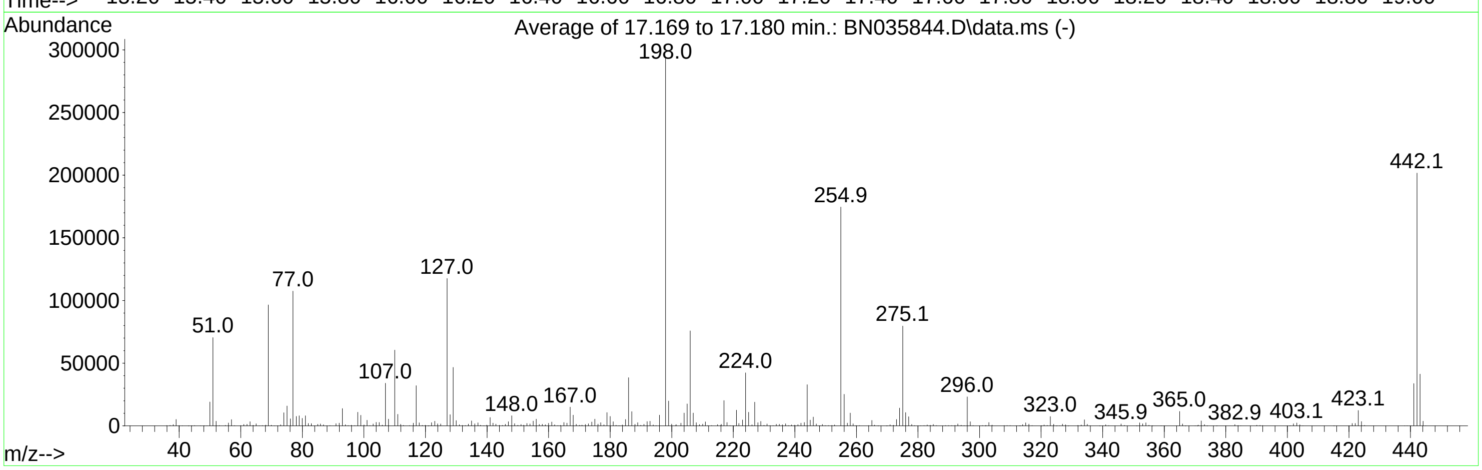
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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 : Thu Dec 19 23:06:19 2024





AutoFind: Scans 2428, 2429, 2430; Background Corrected with Scan 2422

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	24.0	70451	PASS
68	69	0.00	2	0.6	610	PASS
69	198	0.00	100	32.9	96557	PASS
70	69	0.00	2	0.5	480	PASS
127	198	10	80	40.0	117549	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	293824	PASS
199	198	5	9	6.7	19833	PASS
275	198	10	60	27.1	79648	PASS
365	198	1	100	3.9	11517	PASS
441	198	0.01	100	11.5	33733	PASS
442	442	50	100	100.0	201656	PASS
443	442	15	24	20.5	41285	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/26/2024	BNA_N	BN035844.D
Compound Name	**Response**	**Retention Time**
DDT	999259	20.239
DDD	18711	19.798
DDE	516	19.28
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19227	1018486	1.89

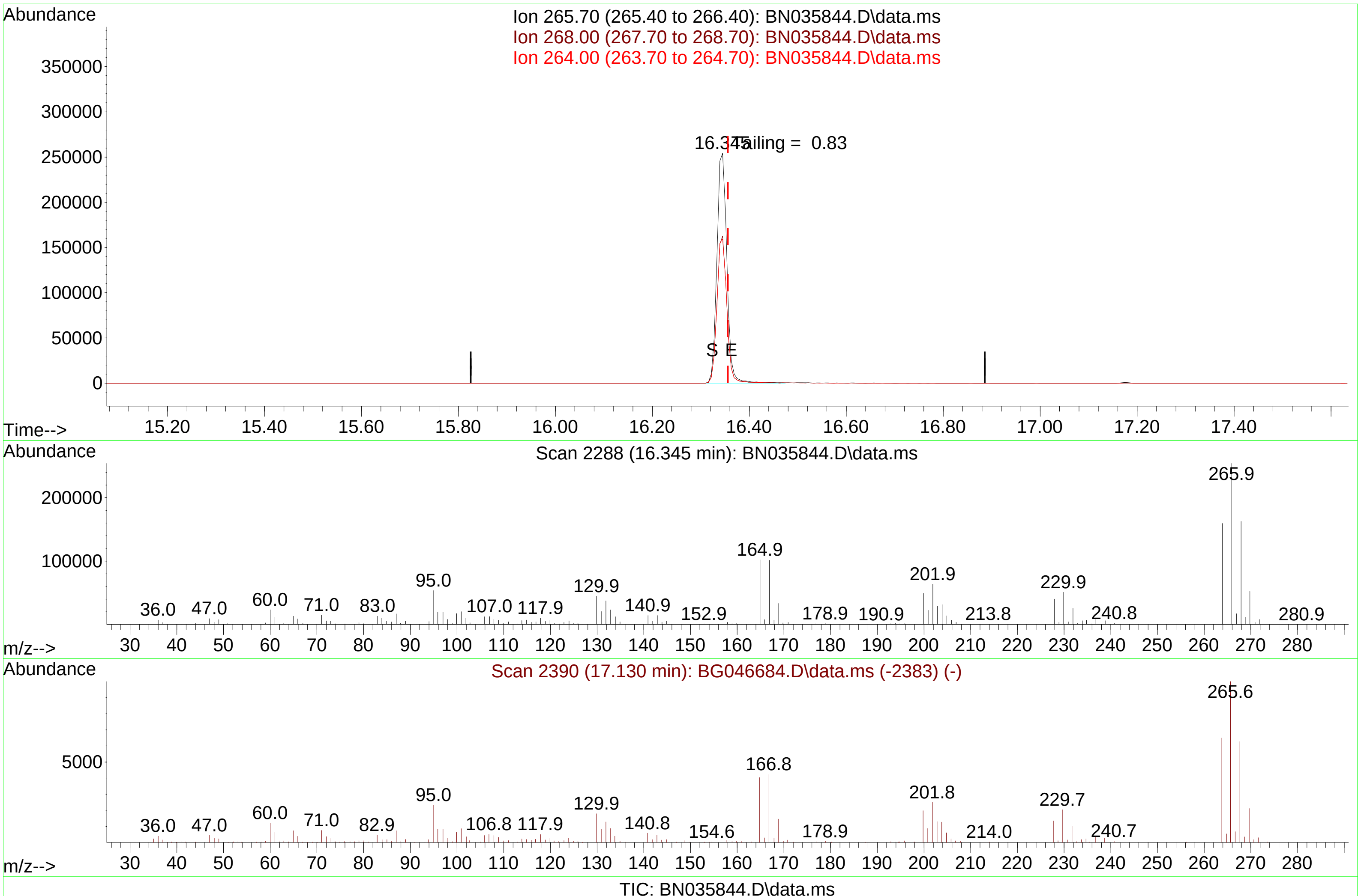
Instrument : BNA_N
ClientSampleId : DFTPP

Sample Results: **BN035844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:22:22 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 25 04:23:53 2024
Response via : Initial Calibration



(70) Pentachlorophenol (C)

16.345min (-0.011) 24950.02 ng

response 363016

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.03
264.00	61.60	62.72
0.00	0.00	0.00

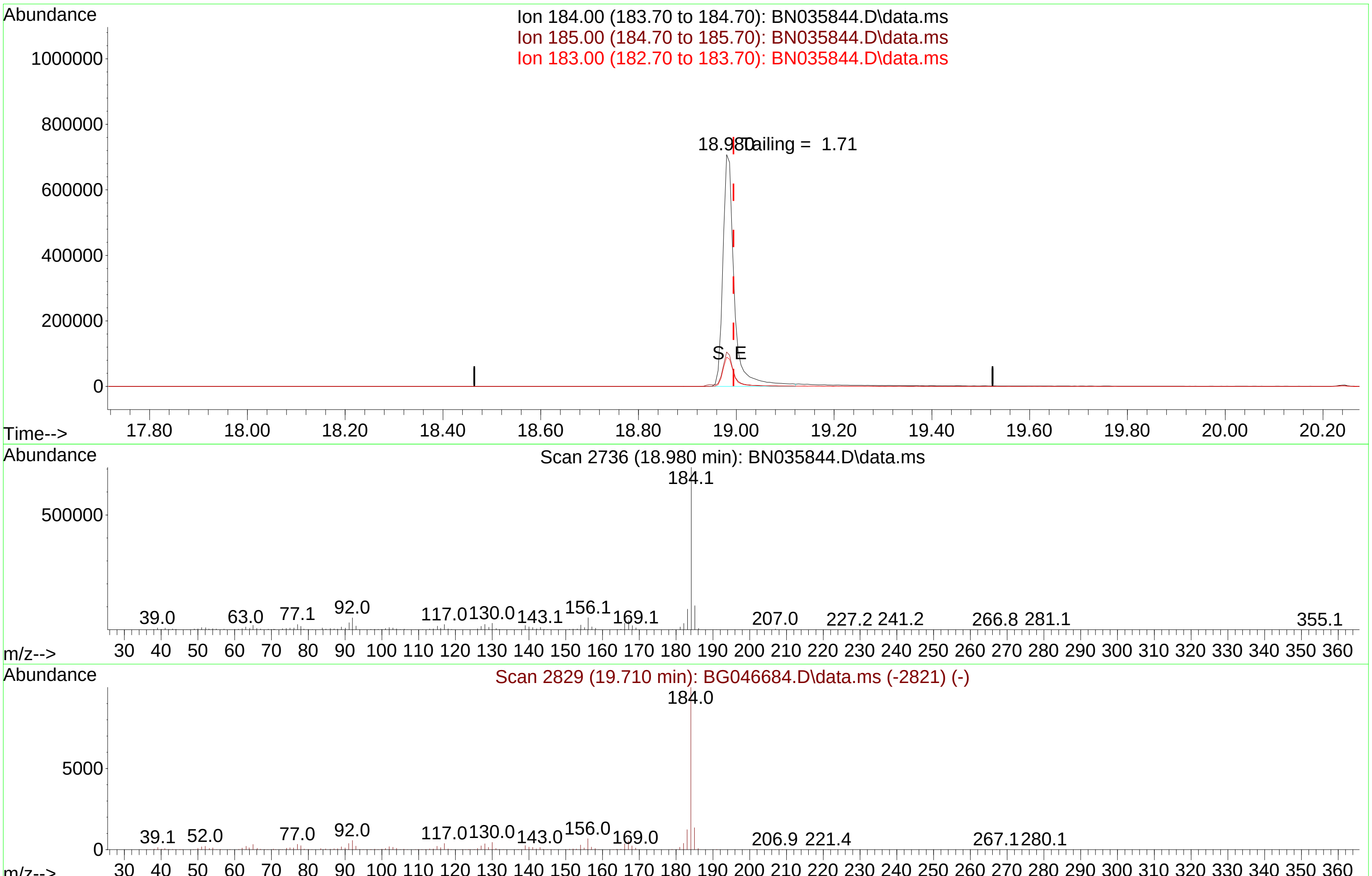
Quantitation Report (Qedit)

Sample Results: **BN035844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 26 18:24:21 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 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN035844.D\data.ms

(77) Benzidine

18.980min (-0.014) 0.00 ng

response 1183784

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.84
183.00	13.20	12.69
0.00	0.00	0.00

Raw Data: **BN035812.D**

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:	PB165828BL	SDG No.:	P5374
Lab Sample ID:	PB165828BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% 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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035812.D	1	12/23/24 13:29	12/24/24 09:35	PB165828

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	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		105%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3200	7.264				
1146-65-2	Naphthalene-d8	6950	10.02				
15067-26-2	Acenaphthene-d10	4350	13.935				
1517-22-2	Phenanthrene-d10	8100	16.711				
1719-03-5	Chrysene-d12	6760	20.956				
1520-96-3	Perylene-d12	6750	23.038				

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\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1782m	0.420	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00

Target Compounds Qvalue

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

Sample Results: **BN035812.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/25/2024
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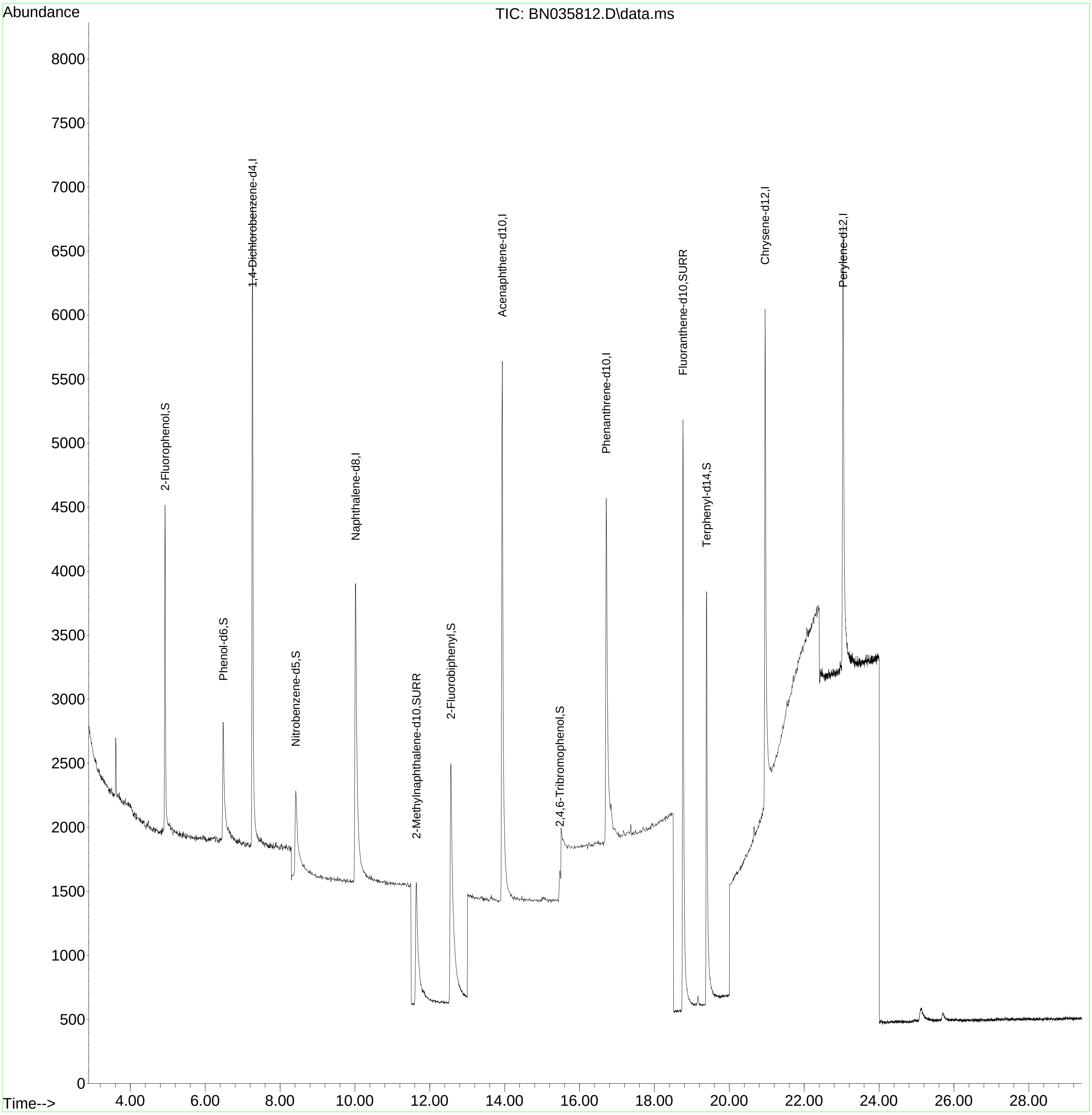

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
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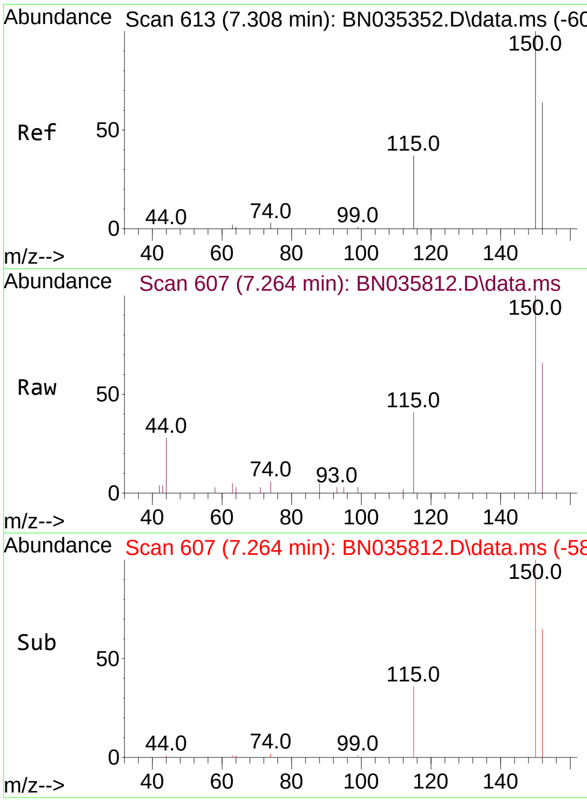
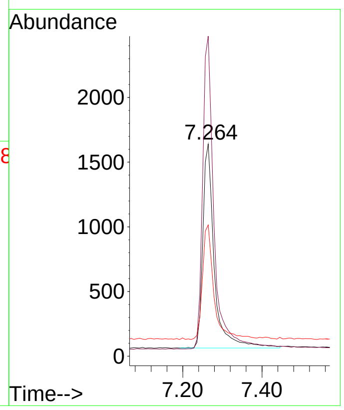
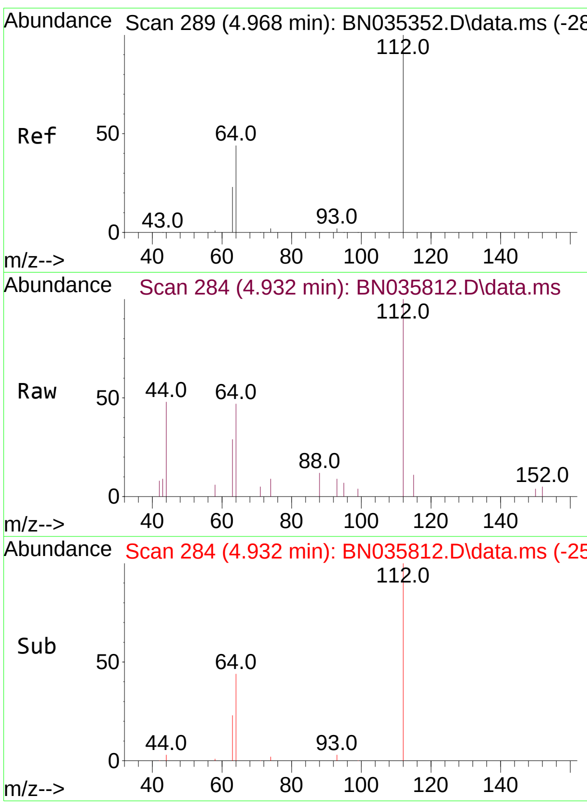


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 319

Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	61.9	49.6	74.4

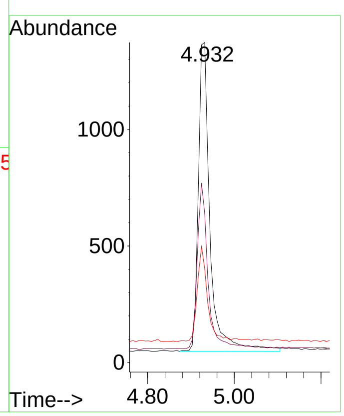




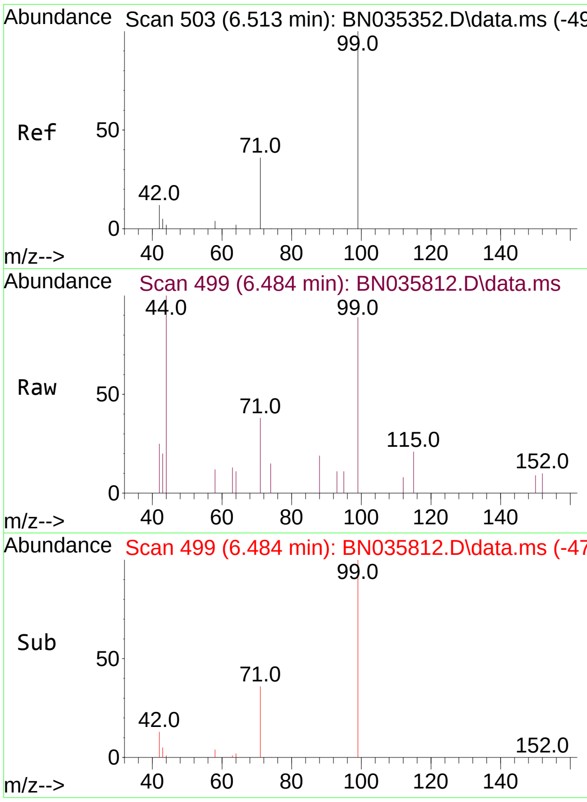
#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:112 Resp: 2496

Ion	Ratio	Lower	Upper
112	100		
64	49.3	39.8	59.8
63	27.1	21.0	31.6



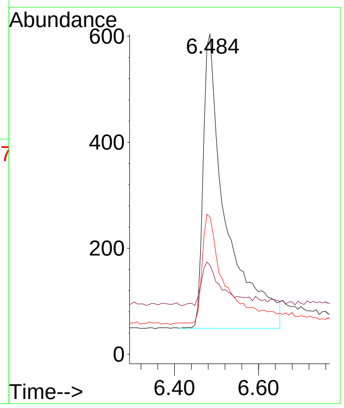
Sample Results: **BN035812.D**



#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min Scan# 49
Delta R.T. -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 99 Resp: 209(

Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
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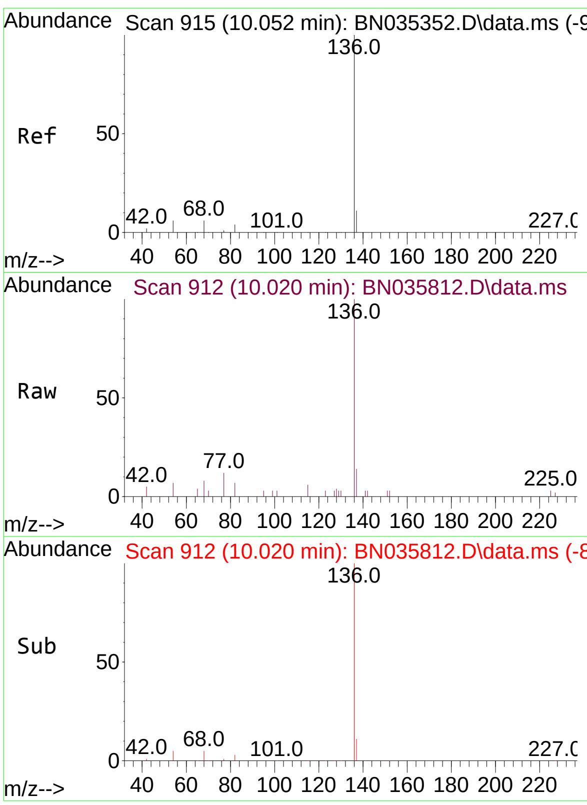
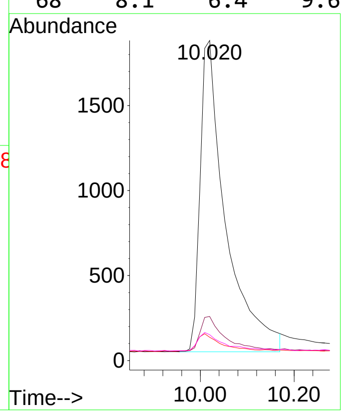
Supervised By :mohammad ahmed 12/26/2024



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min Scan# 912
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:136 Resp: 6952

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6



Instrument : BNA_N
ClientSampleId : PB165828BL

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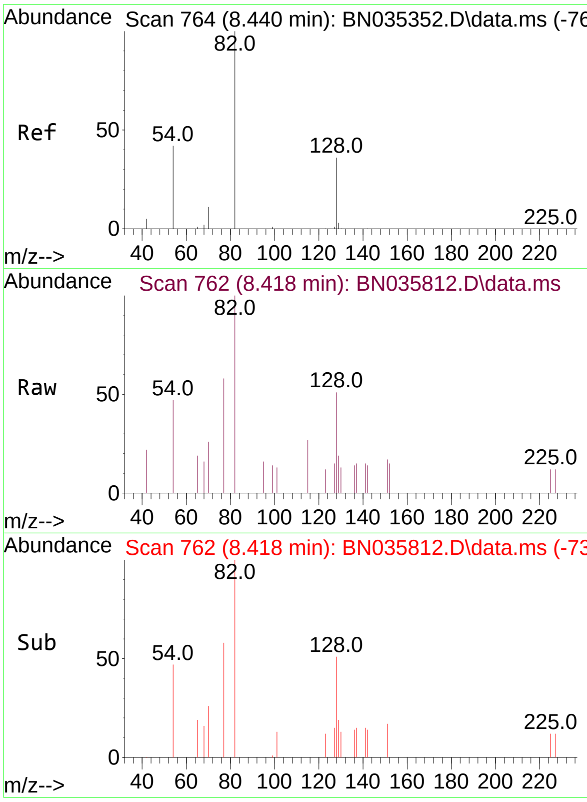
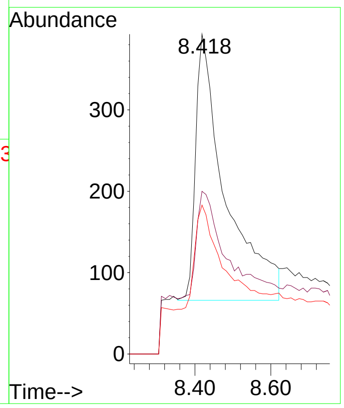
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

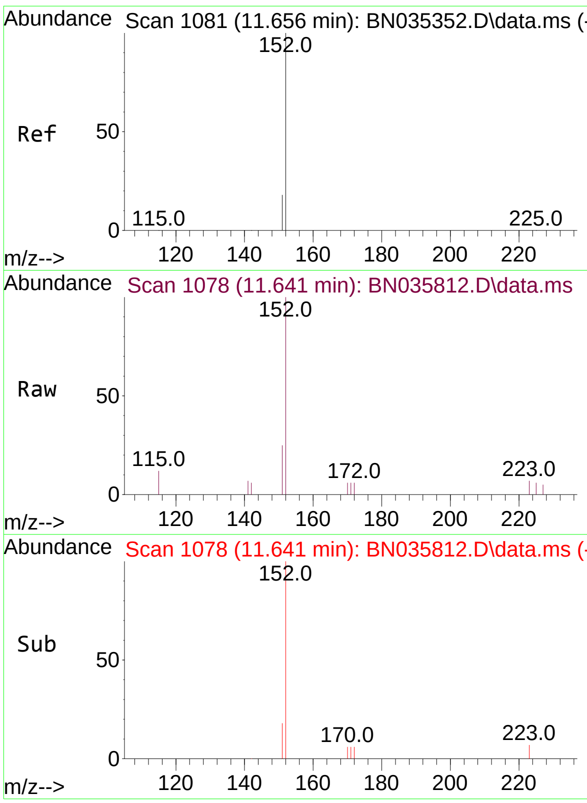


#8
Nitrobenzene-d5
Concen: 0.420 ng m
RT: 8.418 min Scan# 7(
Delta R.T. 0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion: 82 Resp: 178

Ion	Ratio	Lower	Upper
82	100		
128	50.9	33.4	50.0#
54	46.6	36.7	55.1

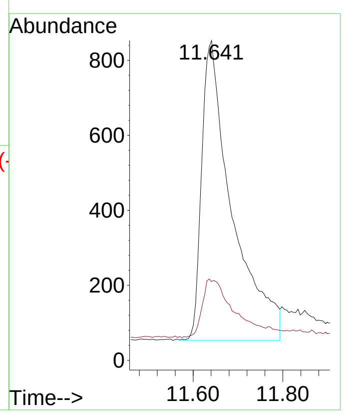




#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min Scan# 1078
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:152 Resp: 3741

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
PB165828BL

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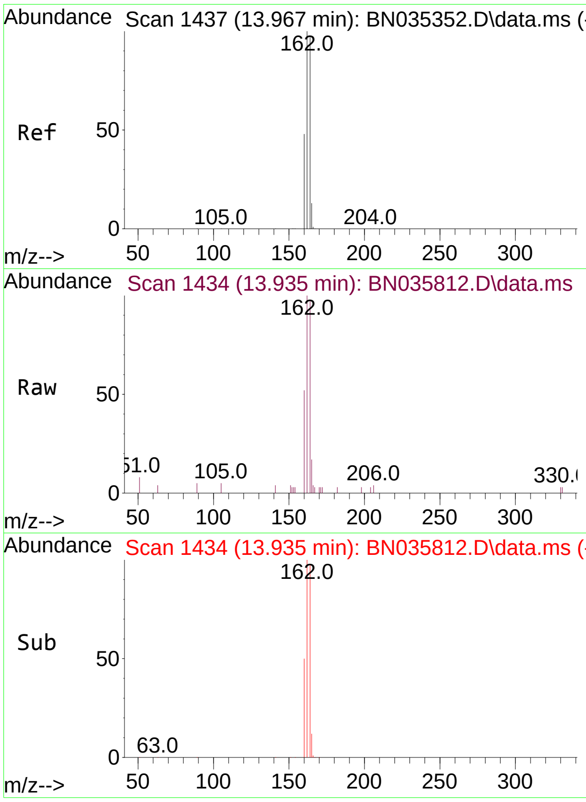
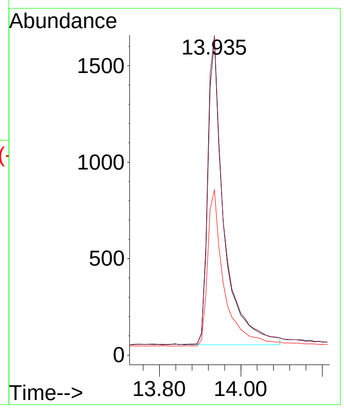
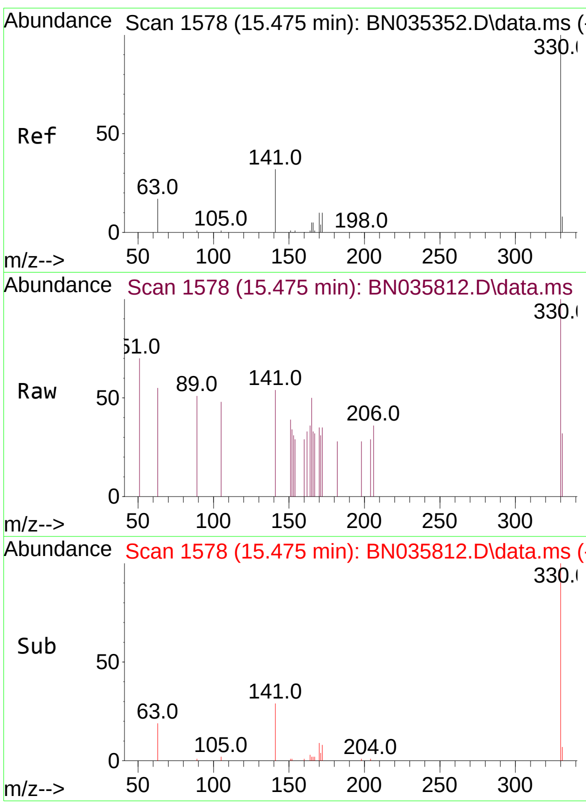


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:164 Resp: 434

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.2	123.2
160	52.5	40.1	60.1

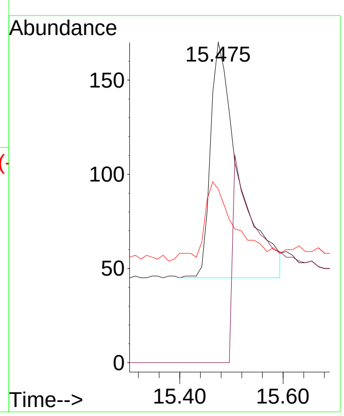


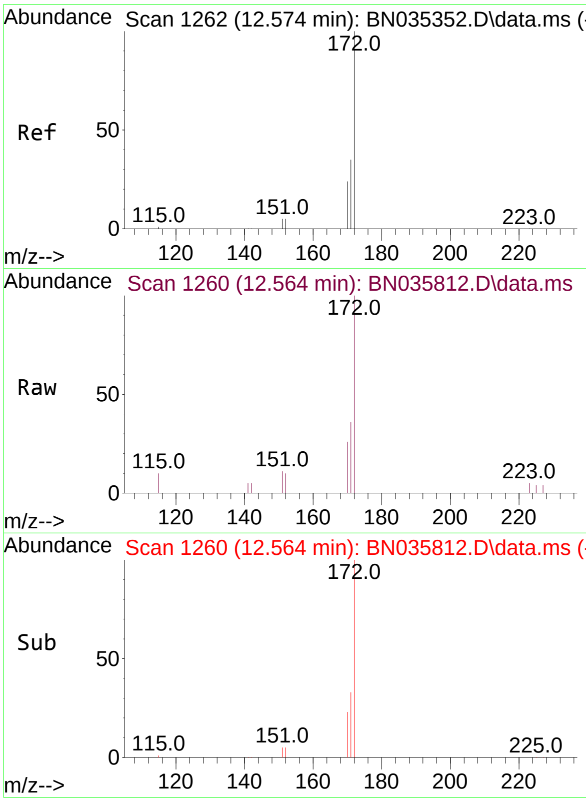


#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.3	26.6	40.0






```
#15
2-Fluorobiphenyl
Concen:    0.344 ng
RT:  12.564 min  Scan# 1
Delta R.T.  0.020 min
Lab File:   BN035812.D
Acq: 24 Dec 2024  09:35

Tgt Ion:172 Resp:    565
Ion  Ratio  Lower  Upper
172  100
171   36.0   29.0   43.4
170   26.1   19.8   29.8
```

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
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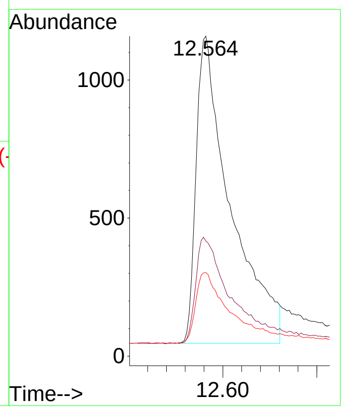
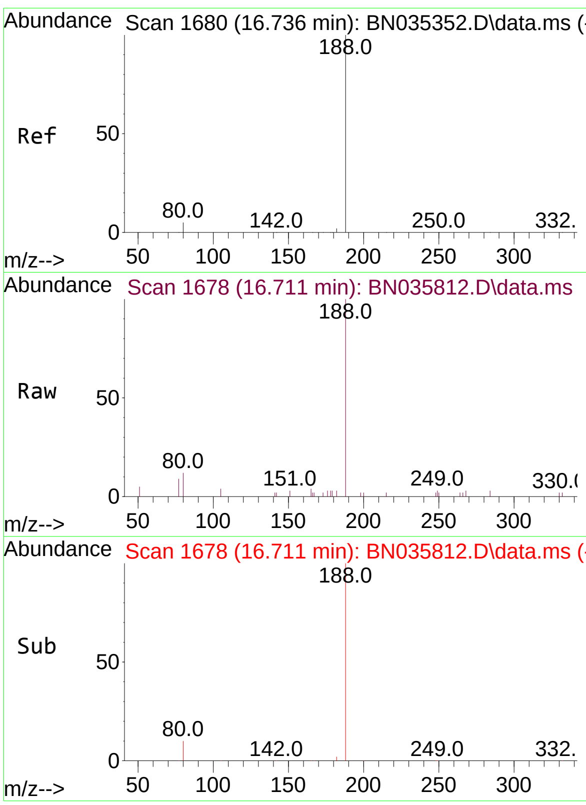
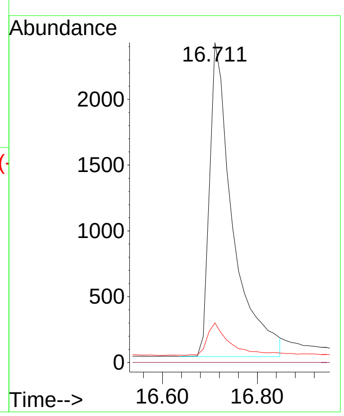
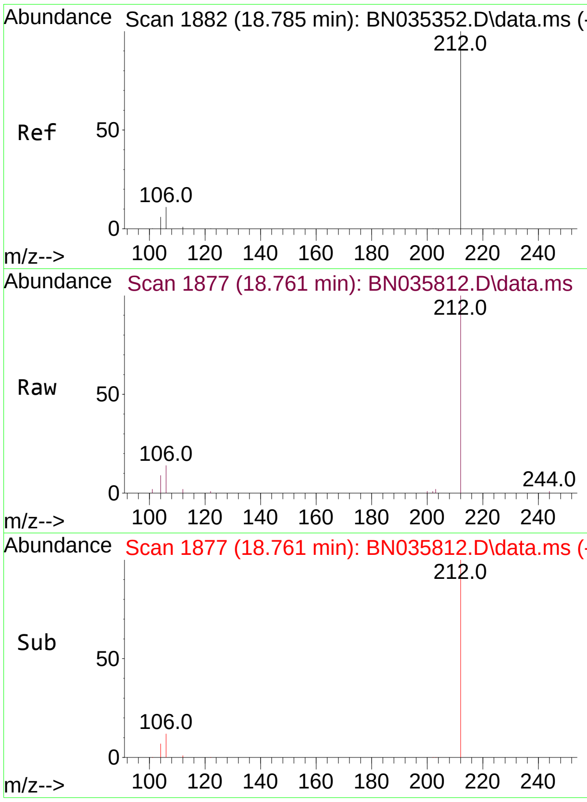
Supervised By :mohammad ahmed 12/26/2024






```
#19
Phenanthrene-d10
Concen:    0.400 ng
RT:  16.711 min  Scan# 1678
Delta R.T.  0.012 min
Lab File:   BN035812.D
Acq: 24 Dec 2024  09:35

Tgt Ion:188 Resp:    8099
Ion  Ratio  Lower  Upper
188  100
 94    0.0    0.0    0.0
 80   12.3    4.6    6.8#
```

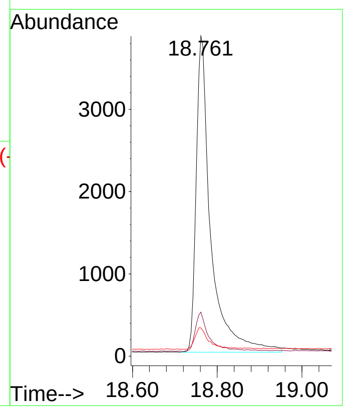




#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:212 Resp: 918

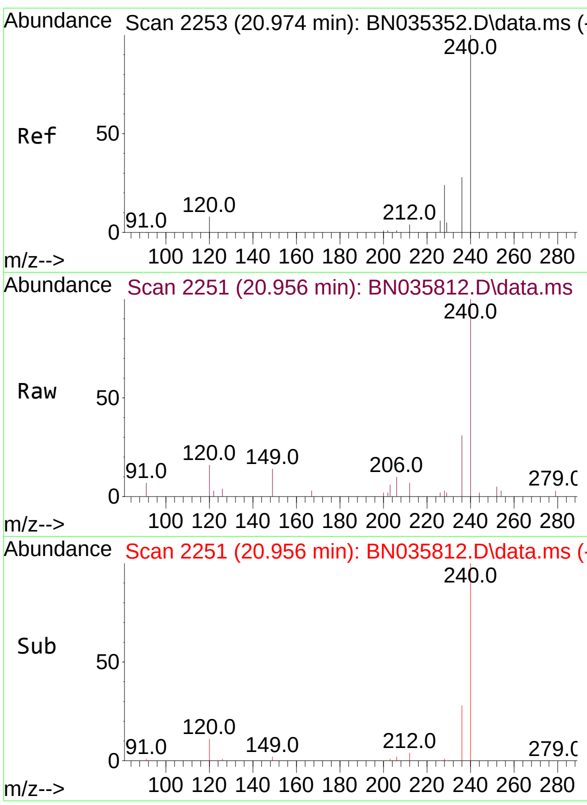
Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.3	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations APPROVED

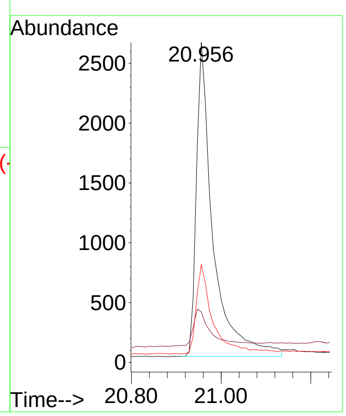
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

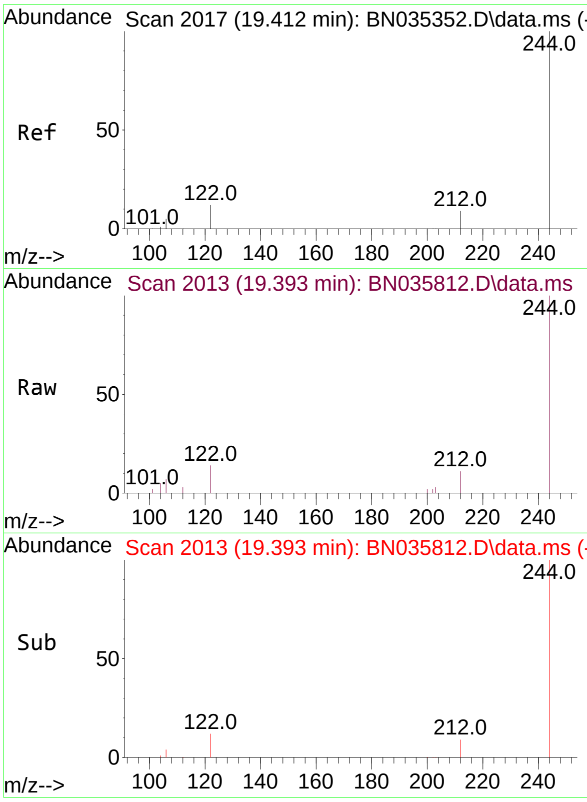


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	30.6	22.9	34.3





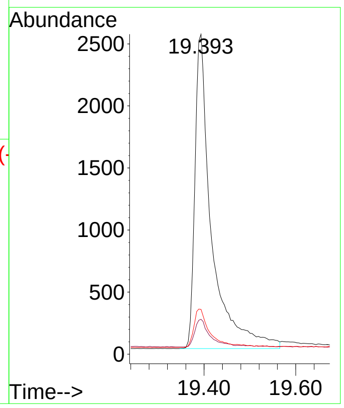
#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 20
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

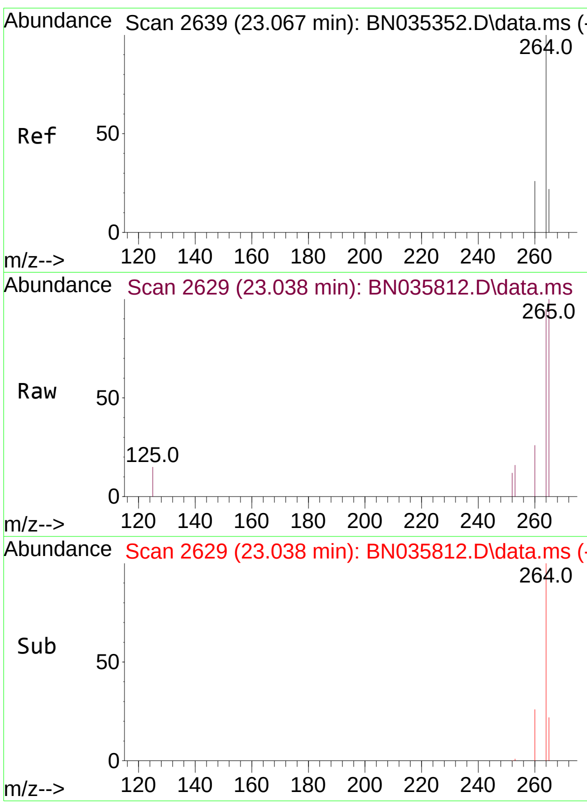
Tgt Ion:244 Resp: 641

Ion	Ratio	Lower	Upper
244	100		
212	10.9	8.1	12.1
122	14.0	10.3	15.5

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

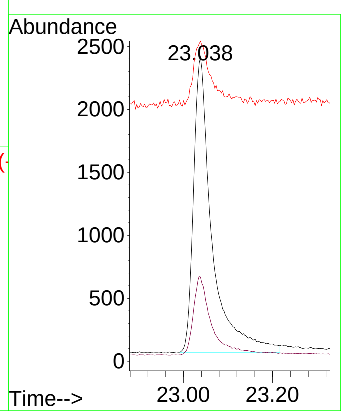




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	105.1	40.2	60.4#



Raw Data: **BN035852.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:	PB165828BS		SDG No.:	P5374	
Lab Sample ID:	PB165828BS		Matrix:	Water	
Analytical Method:	SW8270ESIM		% 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 :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035852.D	1	12/23/24 13:29	12/26/24 14:19	PB165828

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	0.47		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.49	*	55 - 111		122%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	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	4430	7.257				
1146-65-2	Naphthalene-d8	10900	9.998				
15067-26-2	Acenaphthene-d10	6430	13.914				
1517-22-2	Phenanthrene-d10	13000	16.686				
1719-03-5	Chrysene-d12	9260	20.938				
1520-96-3	Perylene-d12	9150	23.023				

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: **BN035852.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	4431	0.400 ng	-0.01
7) Naphthalene-d8	9.998	136	10905	0.400 ng	#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400 ng	#-0.01
29) Chrysene-d12	20.938	240	9257	0.400 ng	#-0.02
35) Perylene-d12	23.023	264	9148	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.924	112	3645	0.329 ng	-0.01
5) Phenol-d6	6.470	99	4024	0.302 ng	-0.02
8) Nitrobenzene-d5	8.397	82	3243m	0.487 ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466 ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200 ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394 ng	-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339 ng	-0.01
31) Terphenyl-d14	19.379	244	8698	0.476 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346 ng	# 88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408 ng	# 88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355 ng	99
9) Naphthalene	10.052	128	11935	0.415 ng	99
10) Hexachlorobutadiene	10.340	225	2551	0.385 ng	# 99
12) 2-Methylnaphthalene	11.681	142	7534	0.366 ng	96
16) Acenaphthylene	13.625	152	10983	0.407 ng	100
17) Acenaphthene	13.978	154	6982	0.390 ng	99
18) Fluorene	14.983	166	9056	0.353 ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505 ng	92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353 ng	97
22) Hexachlorobenzene	15.991	284	3862	0.432 ng	96
23) Atrazine	16.189	200	2110	0.390 ng	96
24) Pentachlorophenol	16.363	266	1614	0.415 ng	# 85
25) Phenanthrene	16.735	178	14161	0.397 ng	100
26) Anthracene	16.822	178	12409	0.384 ng	99
28) Fluoranthene	18.780	202	15692	0.326 ng	99
30) Pyrene	19.147	202	15917	0.466 ng	100
32) Benzo(a)anthracene	20.929	228	11832	0.365 ng	99
33) Chrysene	20.974	228	14241	0.426 ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415 ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435 ng	99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581 ng	# 96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439 ng	95
39) Benzo(a)pyrene	22.936	252	11624	0.422 ng	# 91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414 ng	95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431 ng	98

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

Quantitation Report (QT Reviewed)

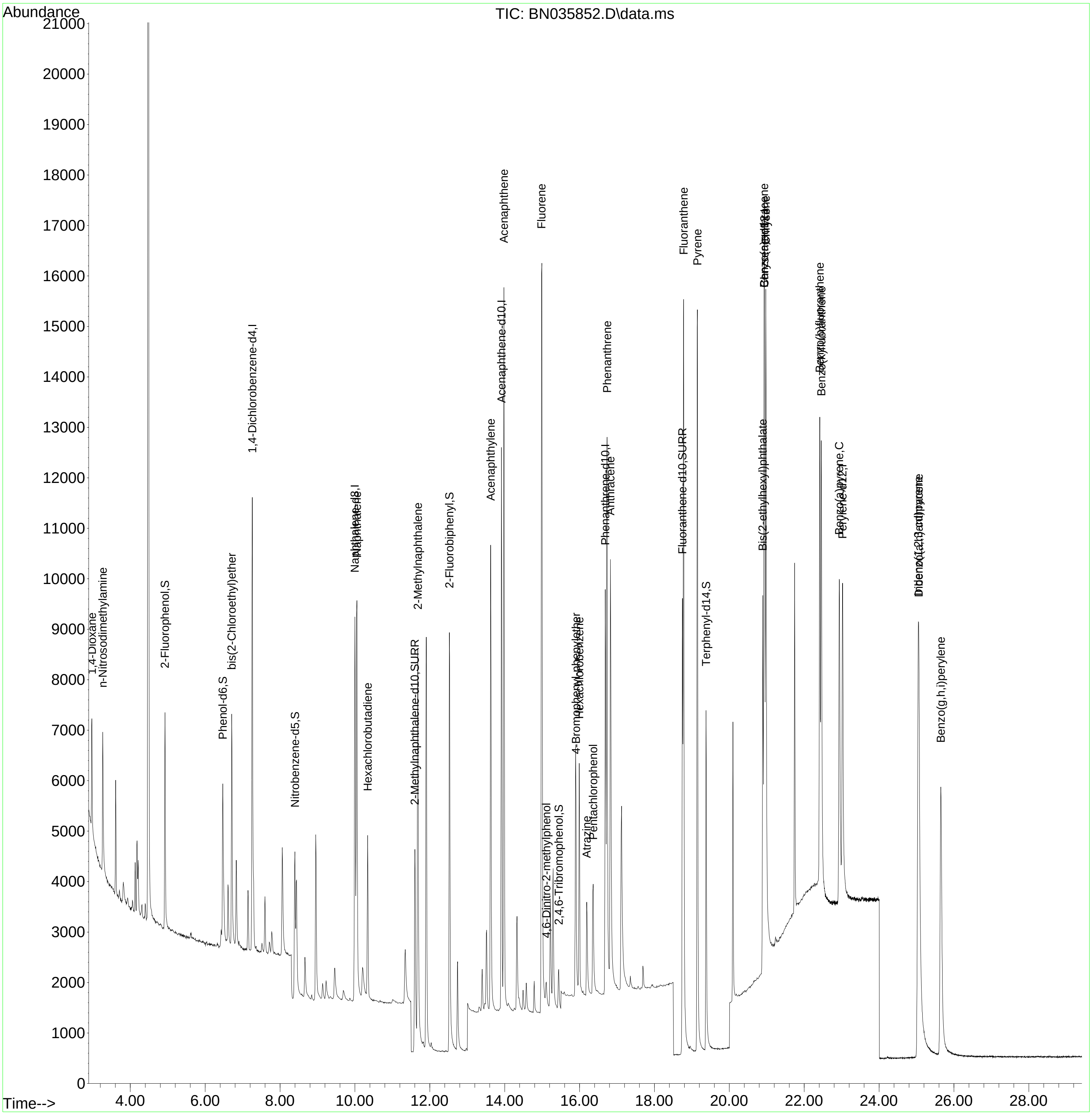
Sample Results: **BN035852.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

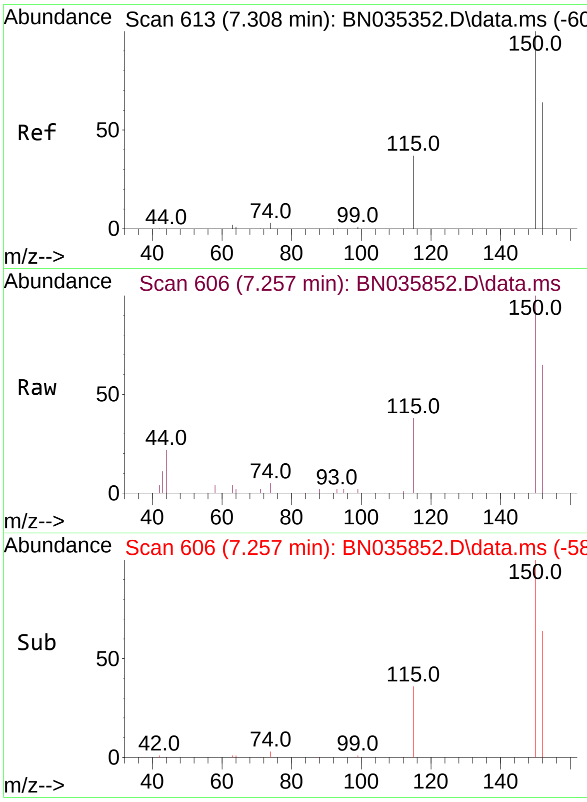
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



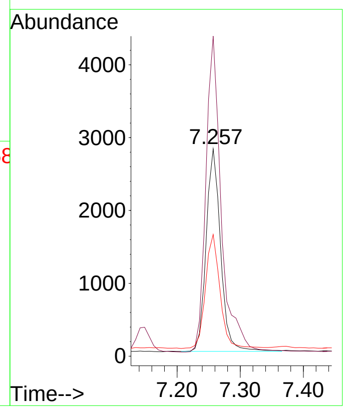
Sample Results: **BN035852.D**



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 443

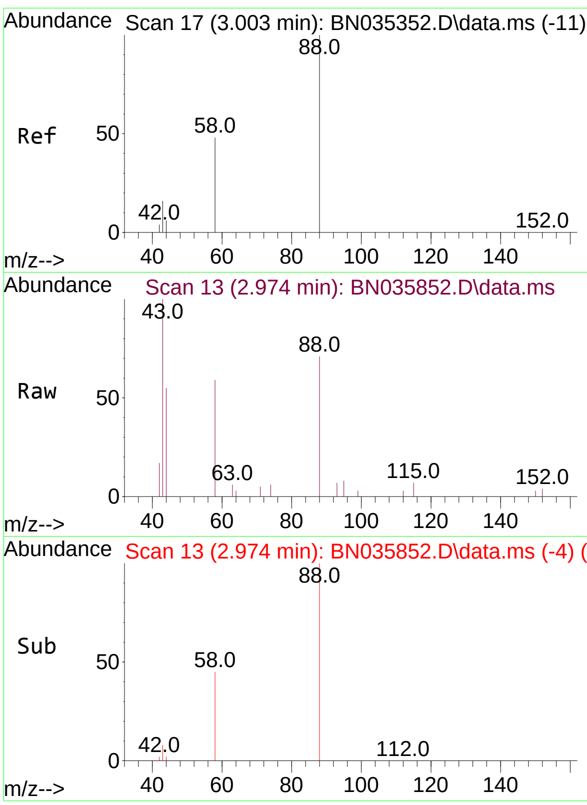
Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.0	186.0
115	58.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

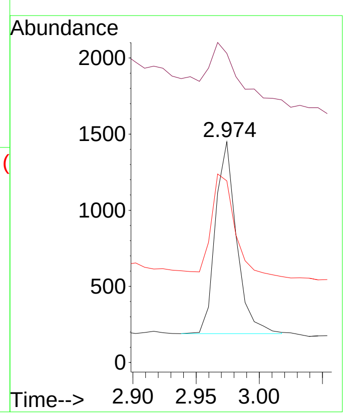
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

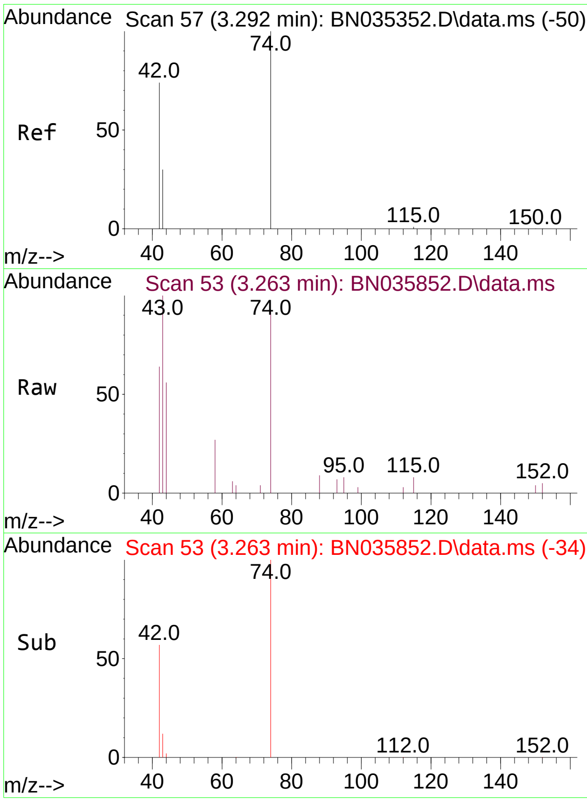
Ion	Ratio	Lower	Upper
88	100		
43	35.7	17.2	25.8#
58	59.5	44.5	66.7



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

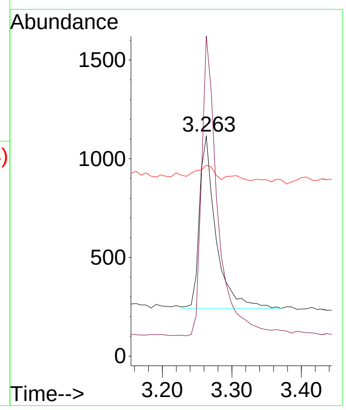
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

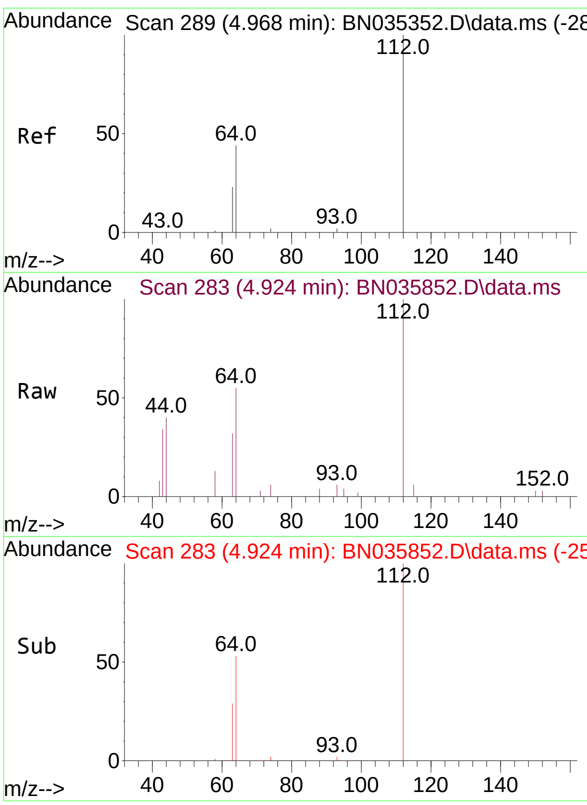


#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 42 Resp: 144

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	8.5	2.2	3.4

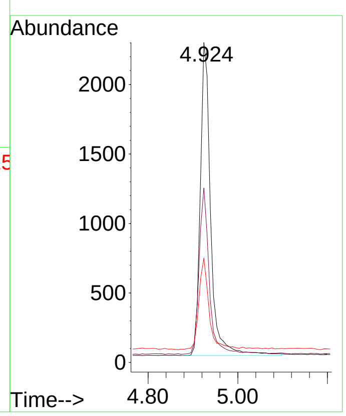


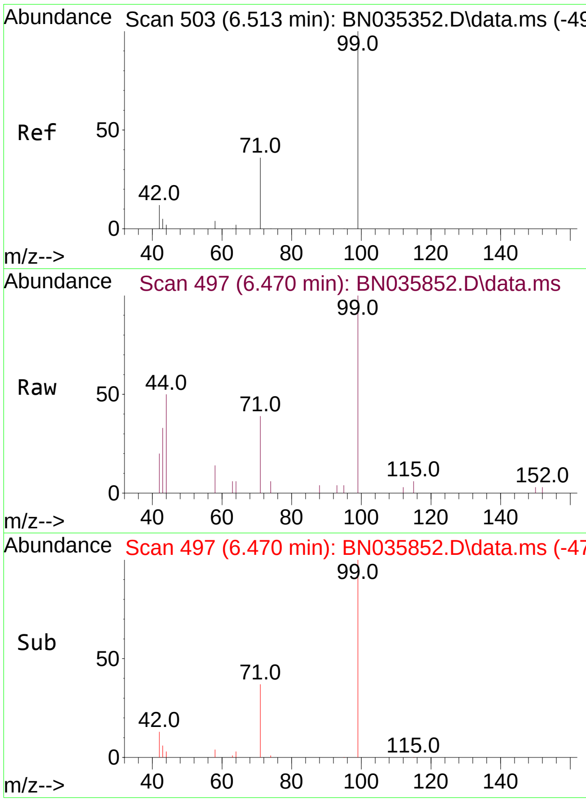


#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.7	21.0	31.6





#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

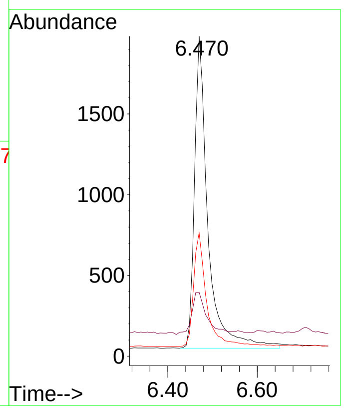
Tgt Ion: 99 Resp: 402

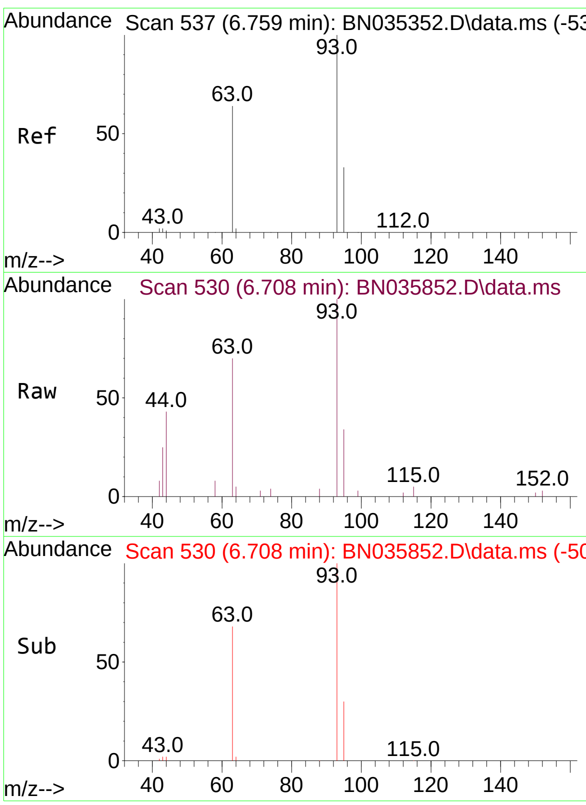
Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	36.4	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

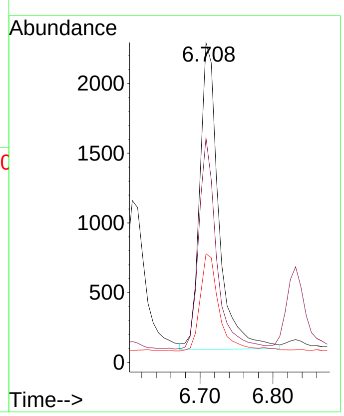


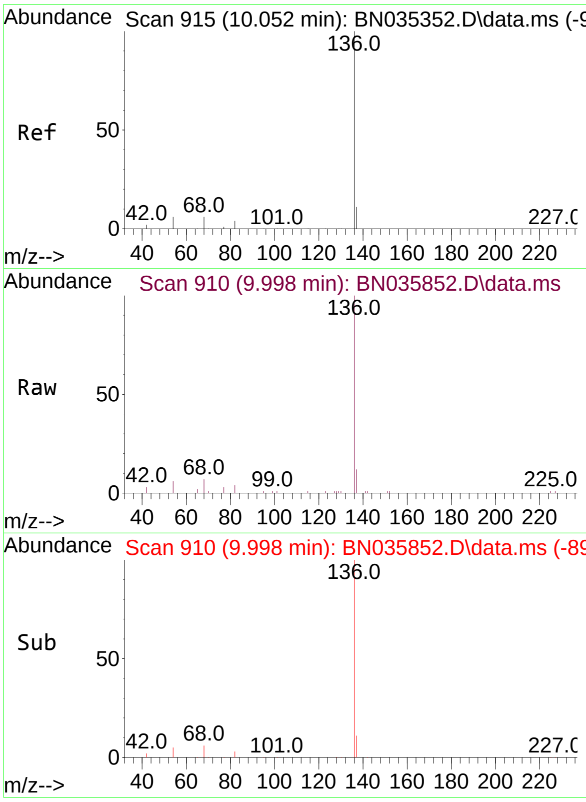


#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	32.1	25.7	38.5

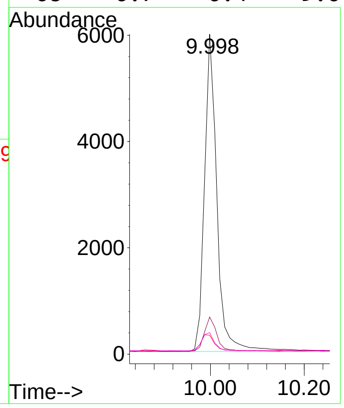




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min   Scan# 91
Delta R.T.   -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024   14:19

Tgt Ion:136 Resp: 1090

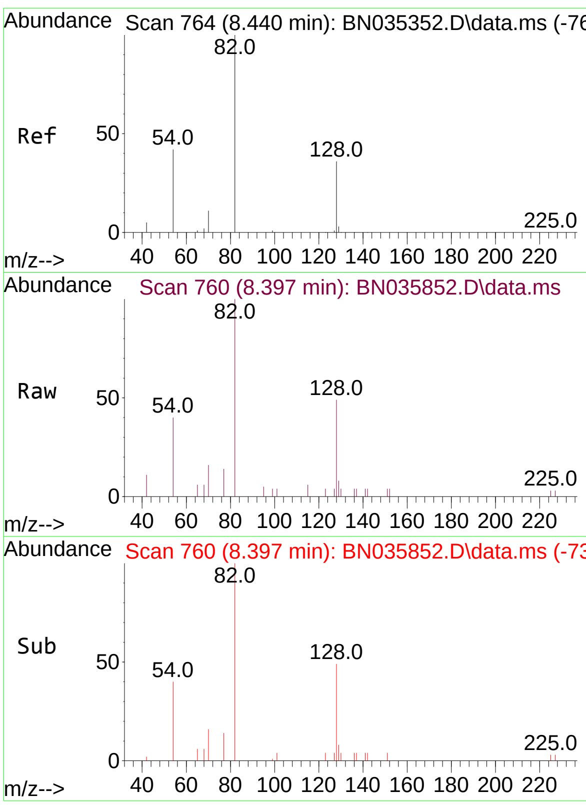
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.9	6.1	9.1#
68	6.7	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED

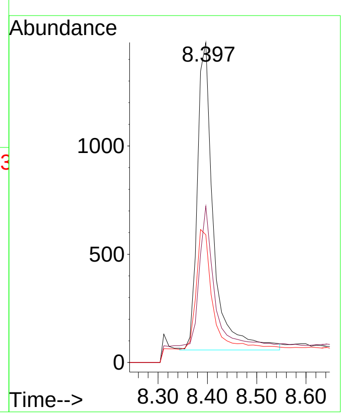
Reviewed By :Yogesh Patel   12/27/2024
Supervised By :mohammad ahmed   12/27/2024



#8
Nitrobenzene-d5
Concen: 0.487 ng m
RT: 8.397 min   Scan# 760
Delta R.T.   -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024   14:19

Tgt Ion: 82 Resp: 3243

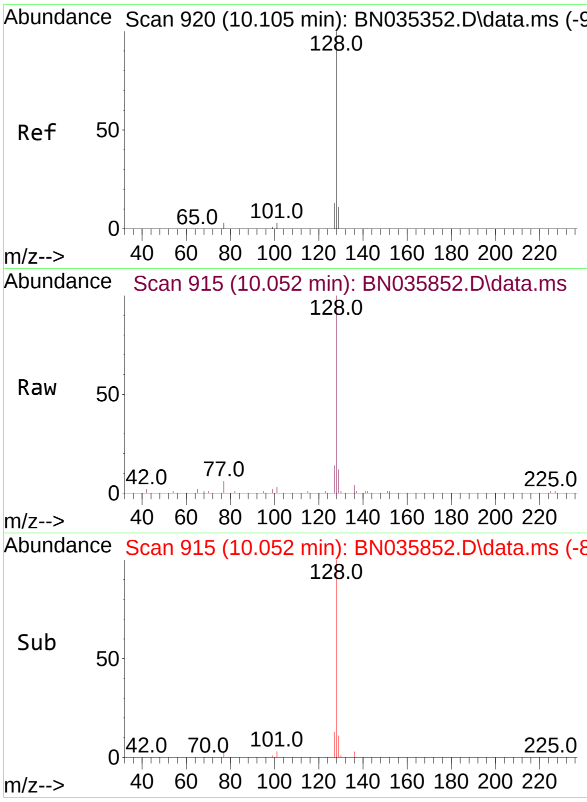
Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	39.9	36.7	55.1



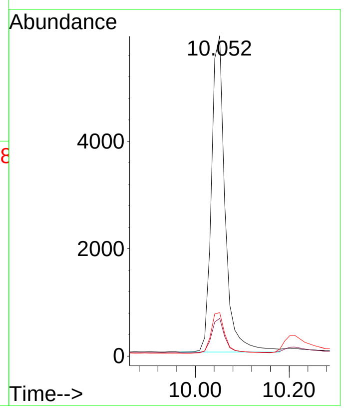
Instrument :
BNA_N
ClientSampleId :
PB165828BS

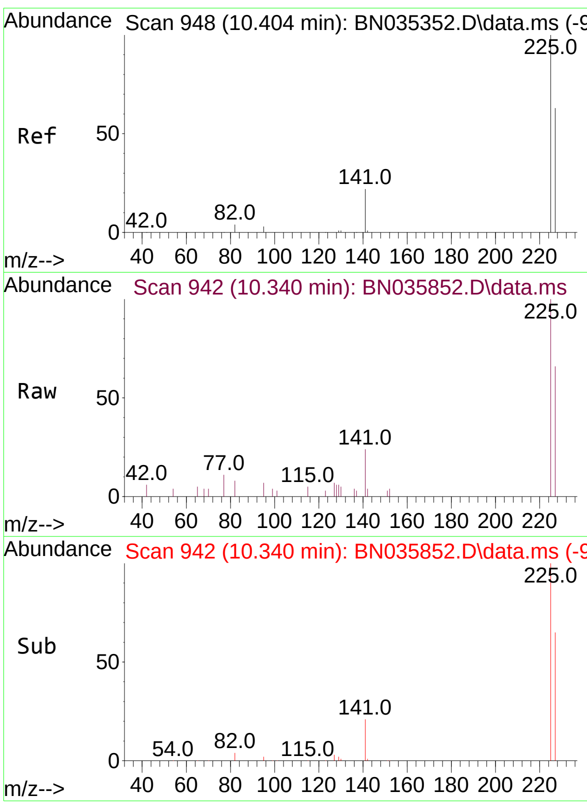
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

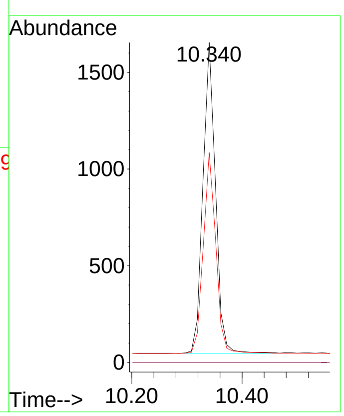



```
#9
Naphthalene
Concen:    0.415 ng
RT:  10.052 min  Scan# 9
Delta R.T.   -0.011 min
Lab File:    BN035852.D
Acq: 26 Dec 2024  14:19

Tgt Ion:128 Resp:   1193
Ion  Ratio  Lower  Upper
128  100
129   11.8    9.8   14.6
127   13.6   11.4   17.2
```






```
#10
Hexachlorobutadiene
Concen:    0.385 ng
RT:  10.340 min  Scan# 942
Delta R.T.   -0.022 min
Lab File:    BN035852.D
Acq: 26 Dec 2024  14:19

Tgt Ion:225 Resp:    2551
Ion  Ratio  Lower  Upper
225  100
223    0.0    0.0    0.0
227   64.9   51.3   76.9
```



Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
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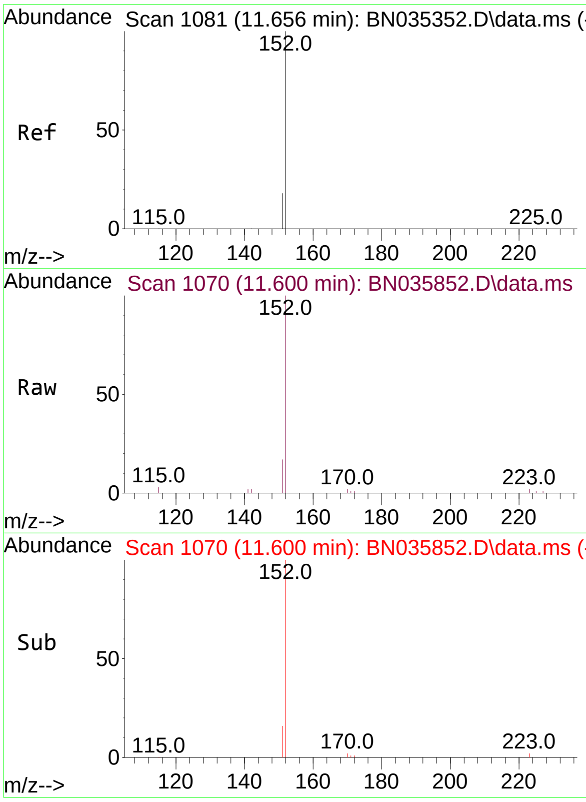
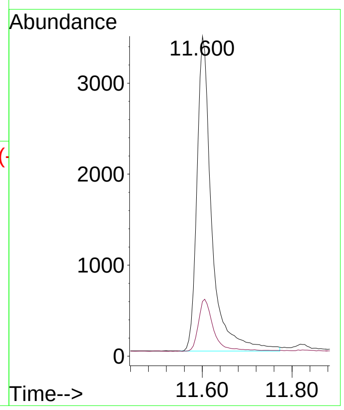
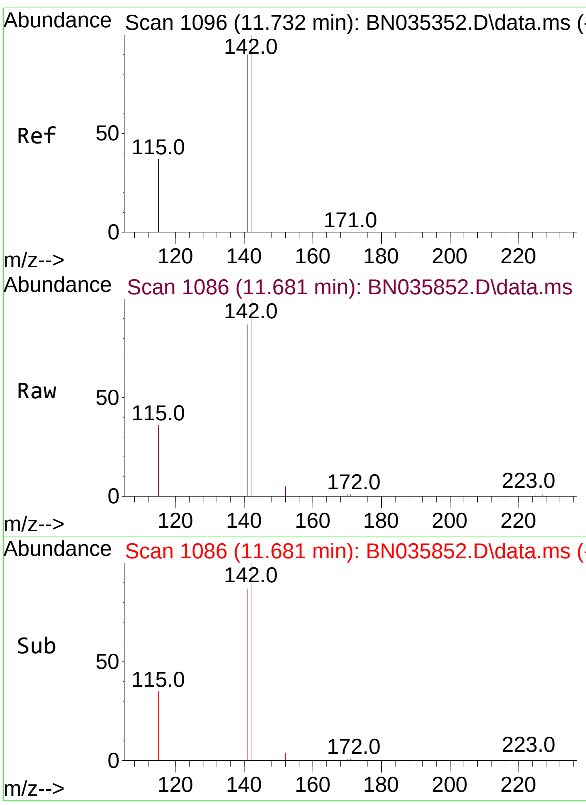


#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 1(
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 794

Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0

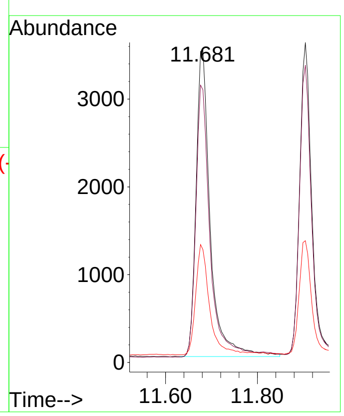




#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

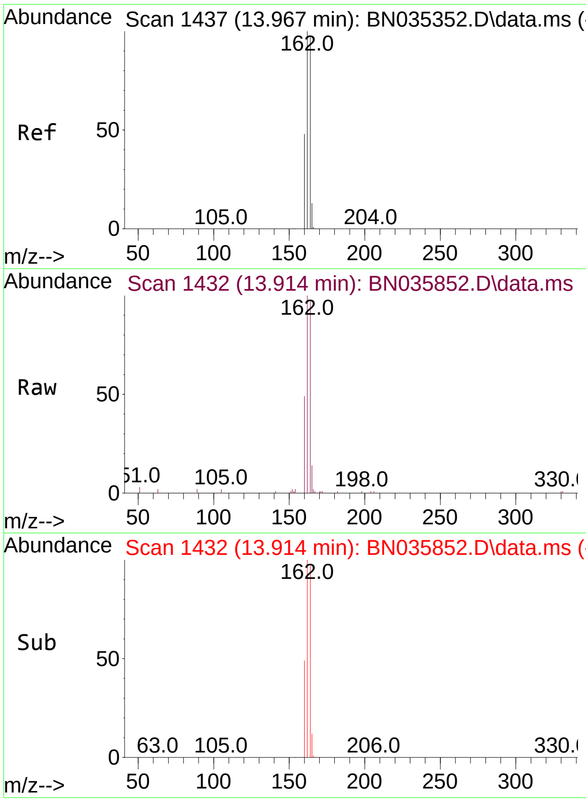
Ion	Ratio	Lower	Upper
142	100		
141	87.3	72.2	108.4
115	36.1	31.4	47.0



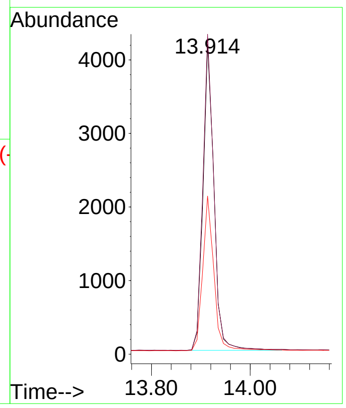
Instrument :
BNA_N
ClientSampleId :
PB165828BS

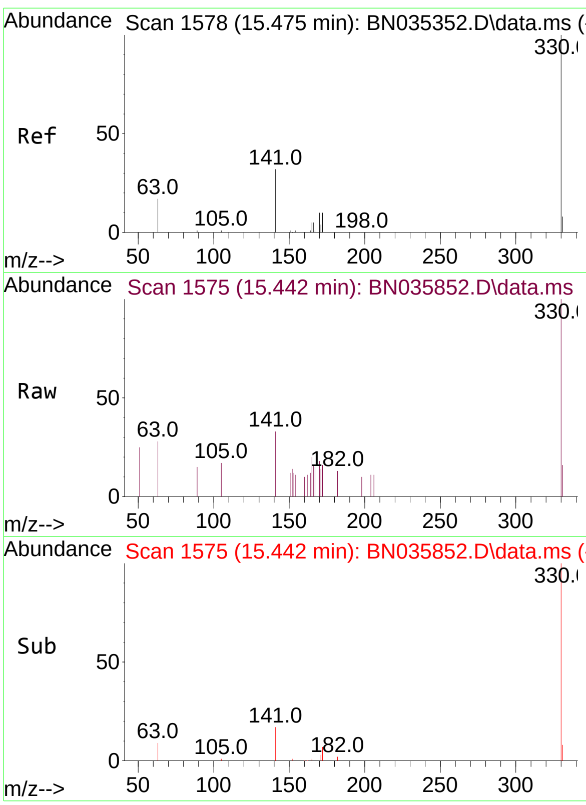
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

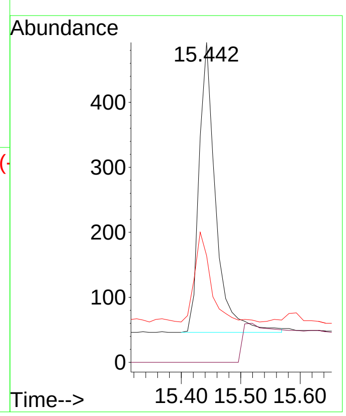



```
#13
Acenaphthene-d10
Concen:    0.400 ng
RT:  13.914 min  Scan# 14
Delta R.T.  -0.022 min
Lab File:   BN035852.D
Acq: 26 Dec 2024  14:19

Tgt Ion:164 Resp:    642
Ion  Ratio  Lower  Upper
164  100
162  103.4   82.2  123.2
160   51.1   40.1   60.1
```





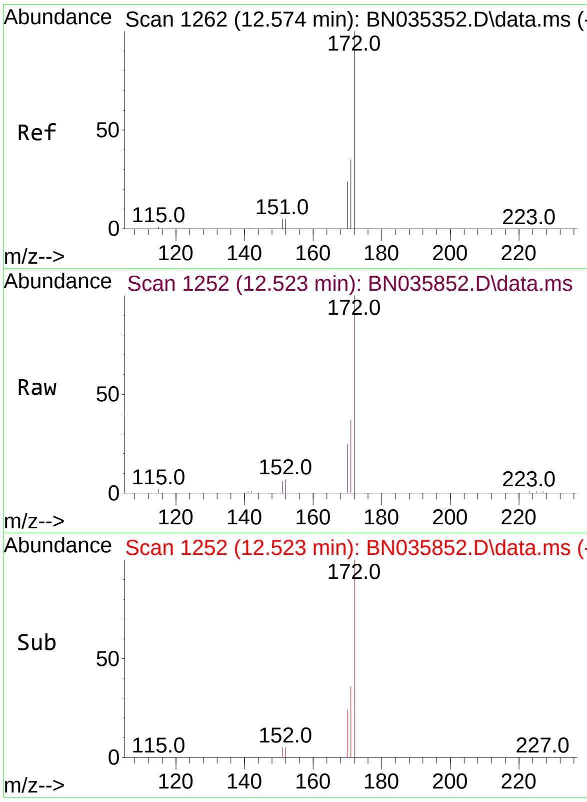

```
#14
2,4,6-Tribromophenol
Concen:    0.200 ng
RT:  15.442 min  Scan# 1575
Delta R.T.  -0.011 min
Lab File:   BN035852.D
Acq: 26 Dec 2024  14:19

Tgt Ion:330 Resp:     913
Ion  Ratio  Lower  Upper
330  100
332    0.0    0.0    0.0
141   29.1   26.6   40.0
```



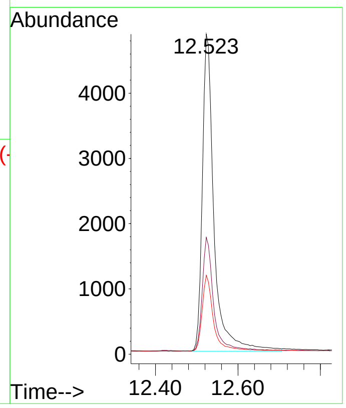
Instrument :
BNA_N
ClientSampleId :
PB165828BS

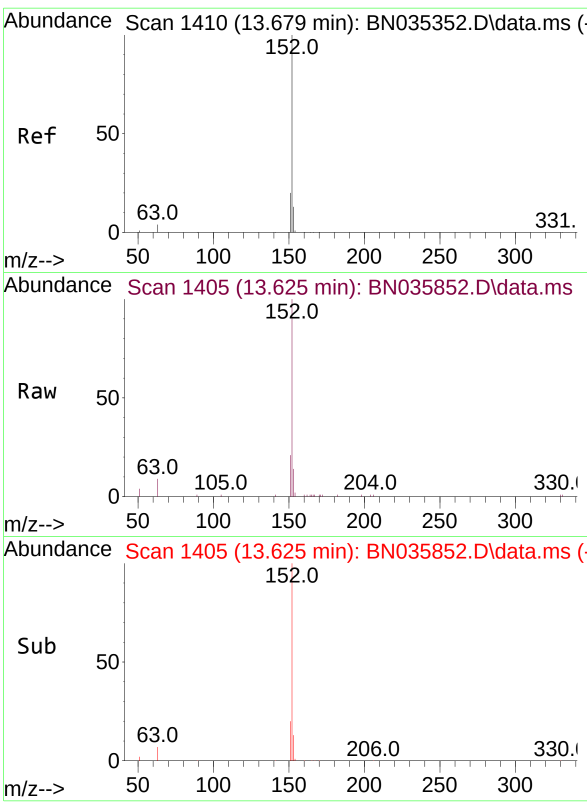
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

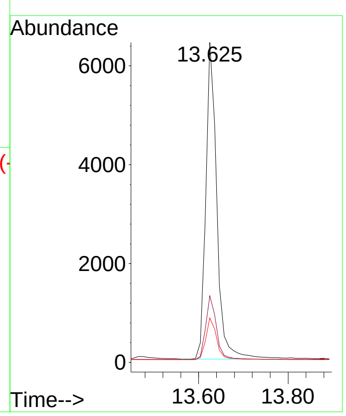


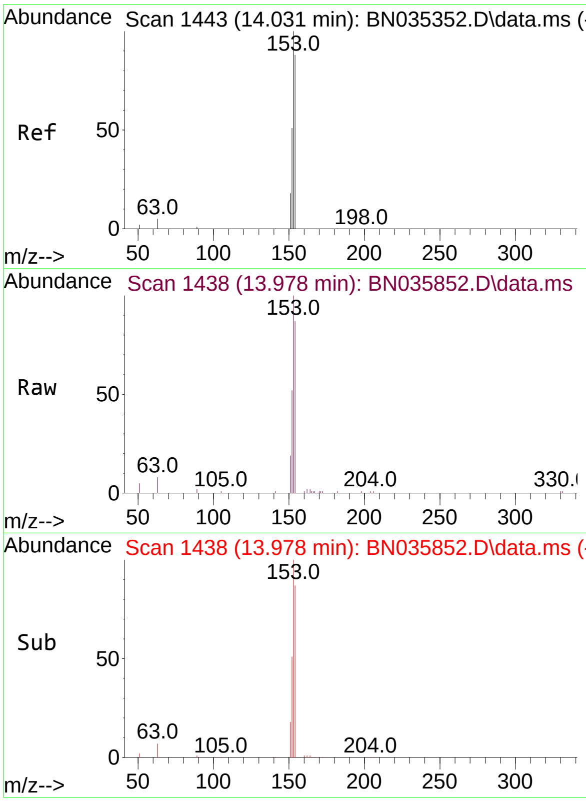

```
#15
2-Fluorobiphenyl
Concen:     0.394 ng
RT:   12.523 min   Scan# 1
Delta R.T.   -0.021 min
Lab File:    BN035852.D
Acq: 26 Dec 2024   14:19

Tgt Ion:172 Resp:    957
Ion   Ratio   Lower   Upper
172   100
171    36.5    29.0    43.4
170    24.6    19.8    29.8
```






```
#16
Acenaphthylene
Concen:     0.407 ng
RT:   13.625 min   Scan# 1405
Delta R.T.   -0.022 min
Lab File:    BN035852.D
Acq: 26 Dec 2024   14:19

Tgt Ion:152 Resp:    10983
Ion   Ratio   Lower   Upper
152   100
151    20.1    16.2    24.2
153    13.3    10.4    15.6
```





#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:154 Resp: 698

Ion	Ratio	Lower	Upper
154	100		
153	117.4	92.6	139.0
152	60.2	49.0	73.6

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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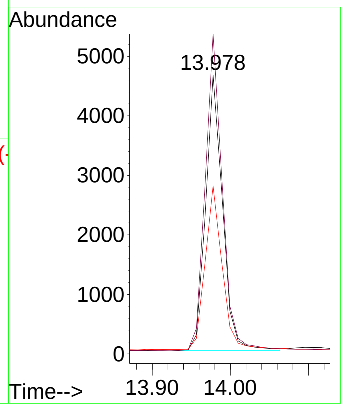
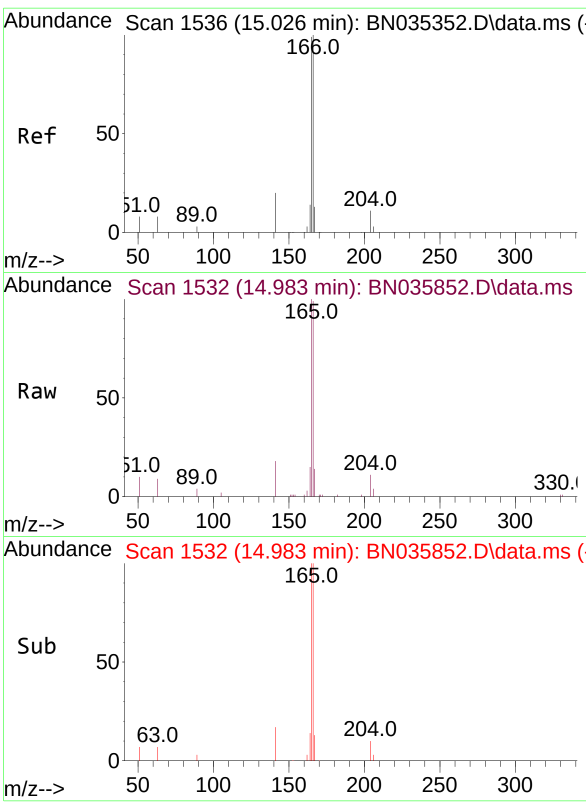
Supervised By :mohammad ahmed 12/27/2024

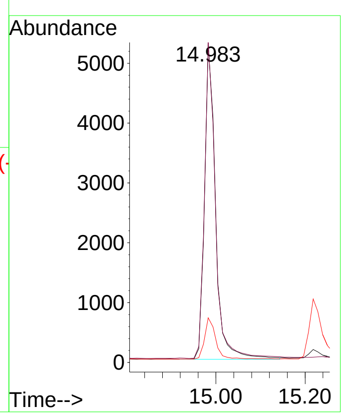


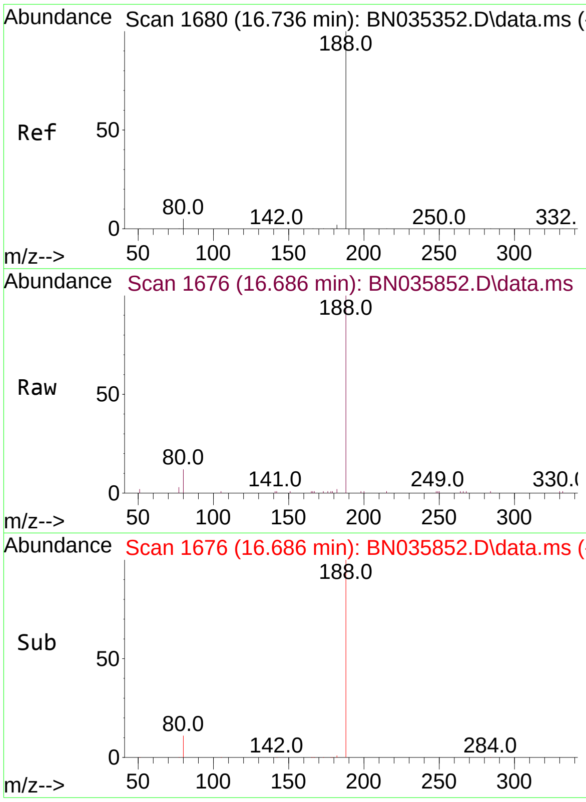


#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.2	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:188 Resp: 1300

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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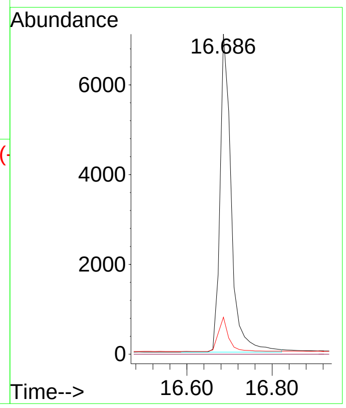
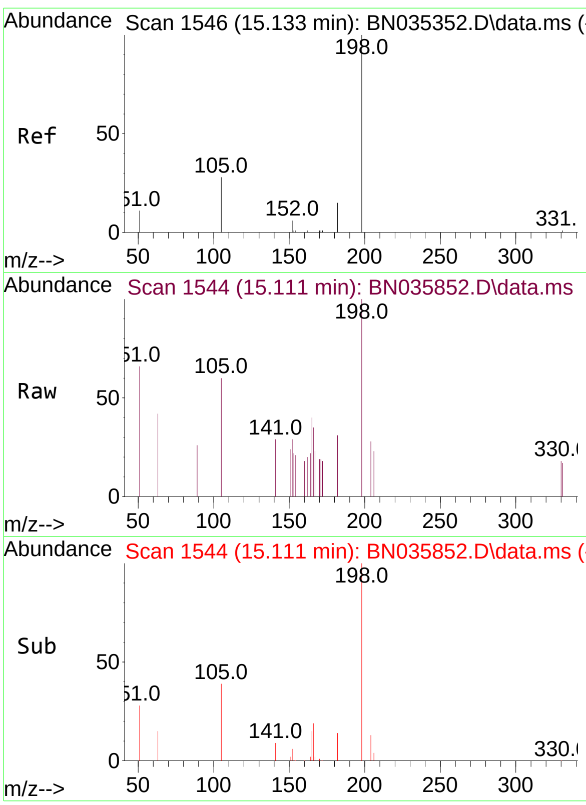
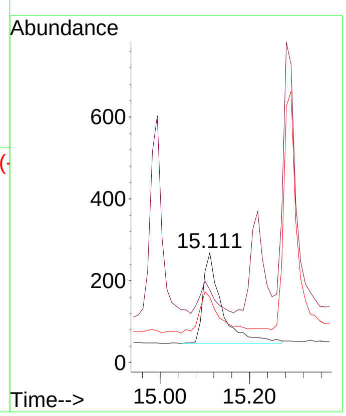


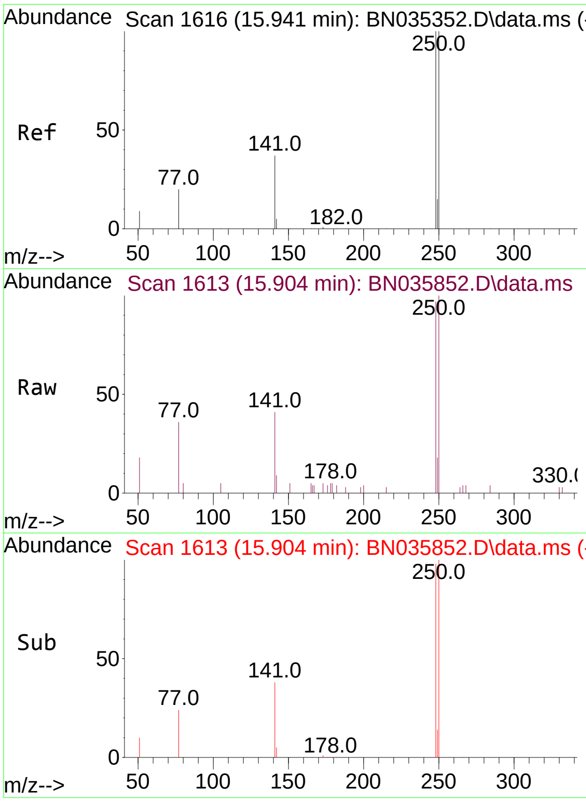


#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

Ion	Ratio	Lower	Upper
198	100		
51	66.4	46.5	69.7
105	59.7	45.3	67.9





#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:248 Resp: 268

Ion	Ratio	Lower	Upper
248	100		
250	102.8	80.6	120.8
141	42.2	31.5	47.3

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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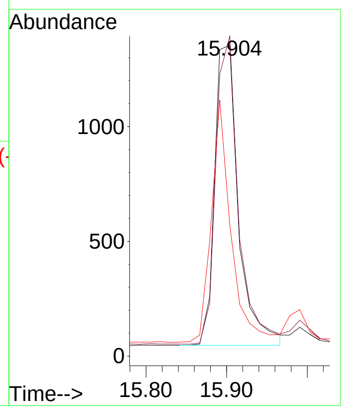
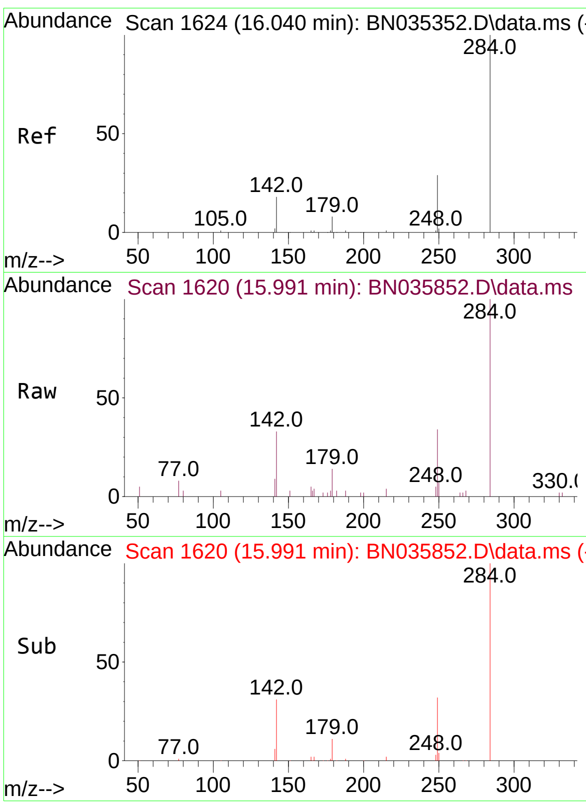
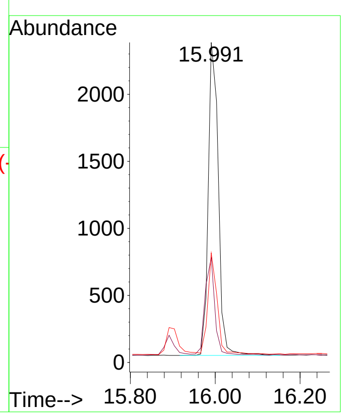




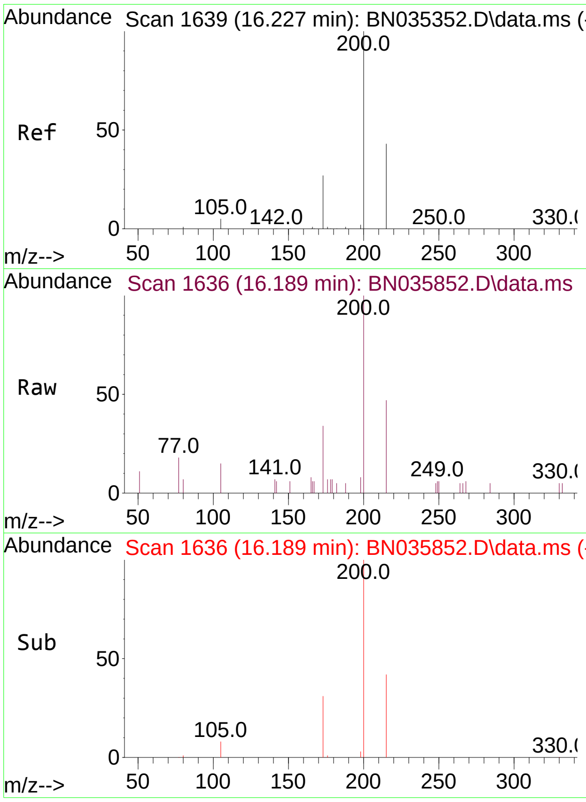
#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	30.2	24.6	36.8



Sample Results: **BN035852.D**



#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:200 Resp: 211(

Ion	Ratio	Lower	Upper
200	100		
173	34.2	24.1	36.1
215	46.7	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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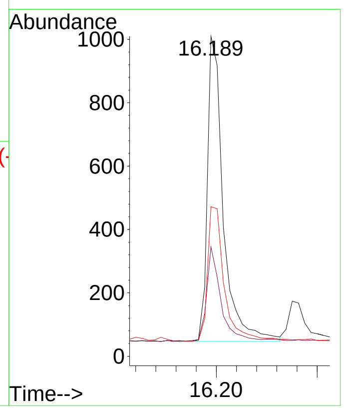
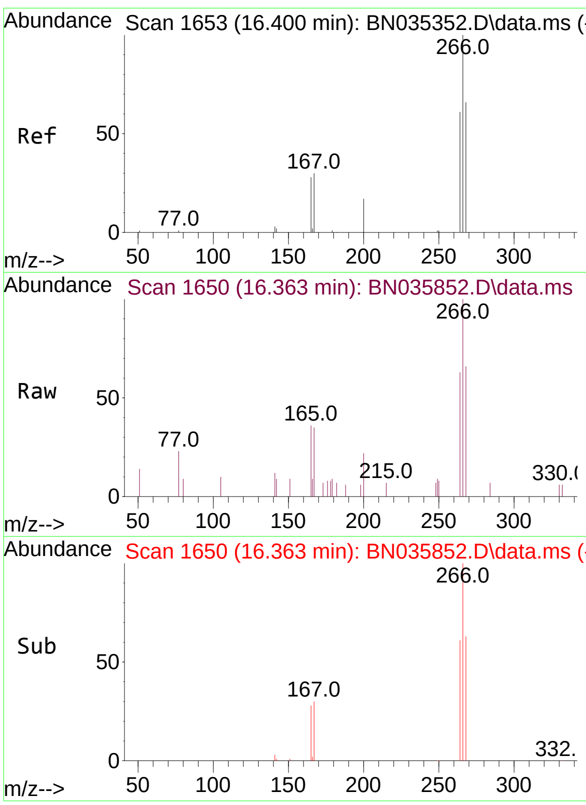
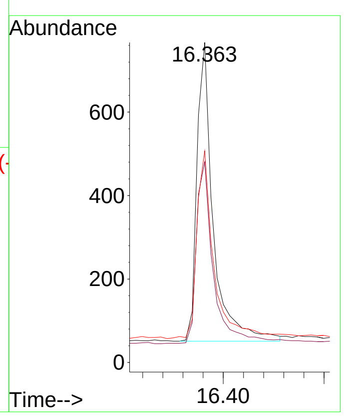


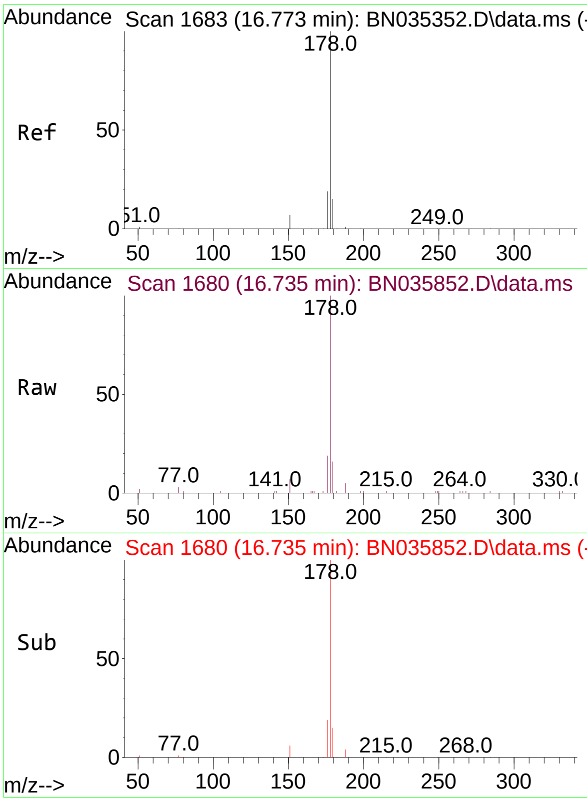


#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

Ion	Ratio	Lower	Upper
266	100		
264	63.1	42.3	63.5
268	65.7	43.3	64.9#





#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 1416

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

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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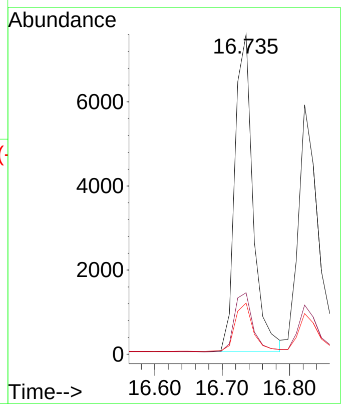
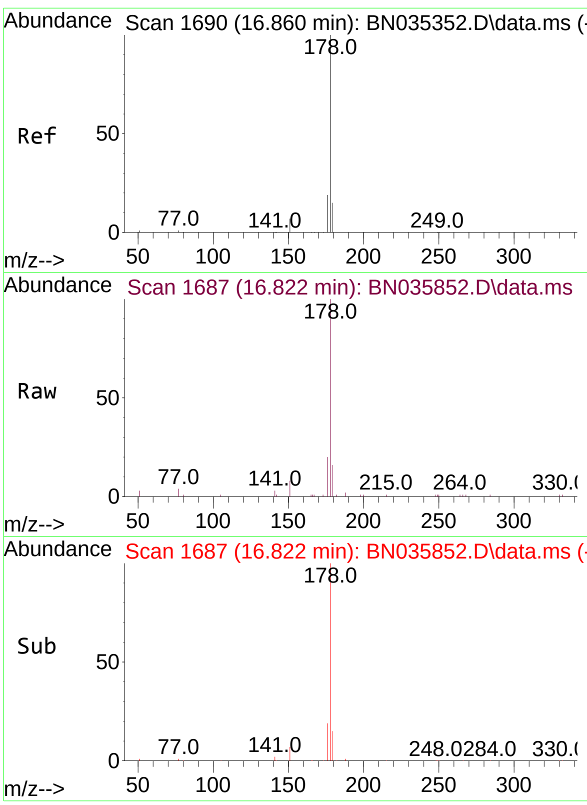
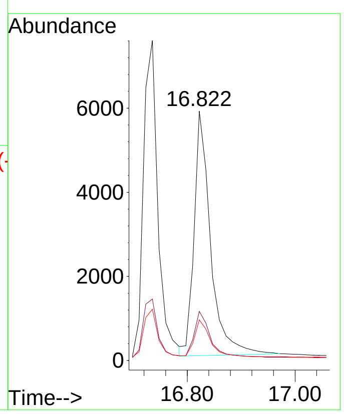


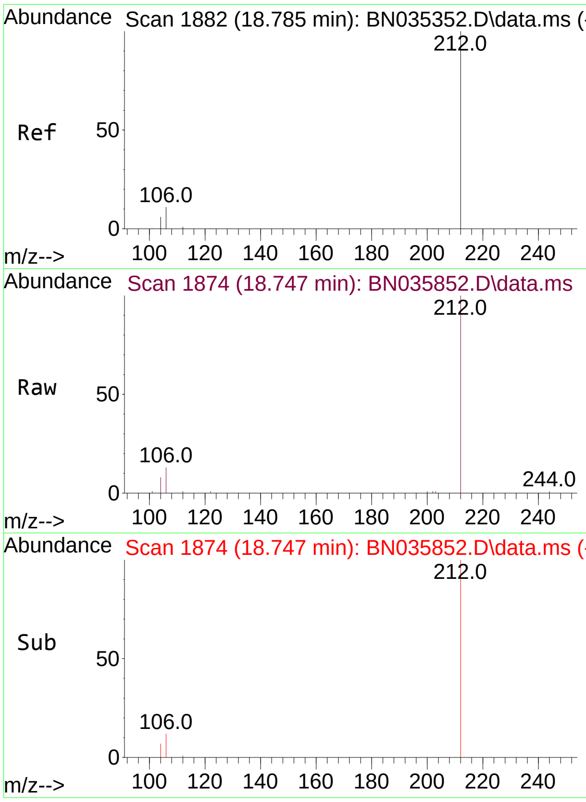


#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	14.9	12.6	18.8





#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 18
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:212 Resp: 12504

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.0	5.3	7.9

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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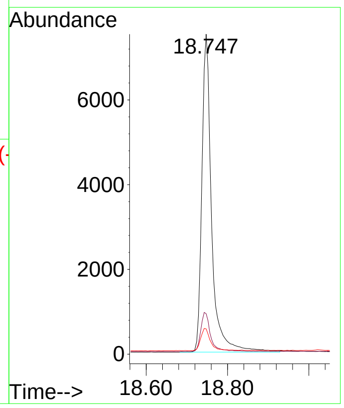
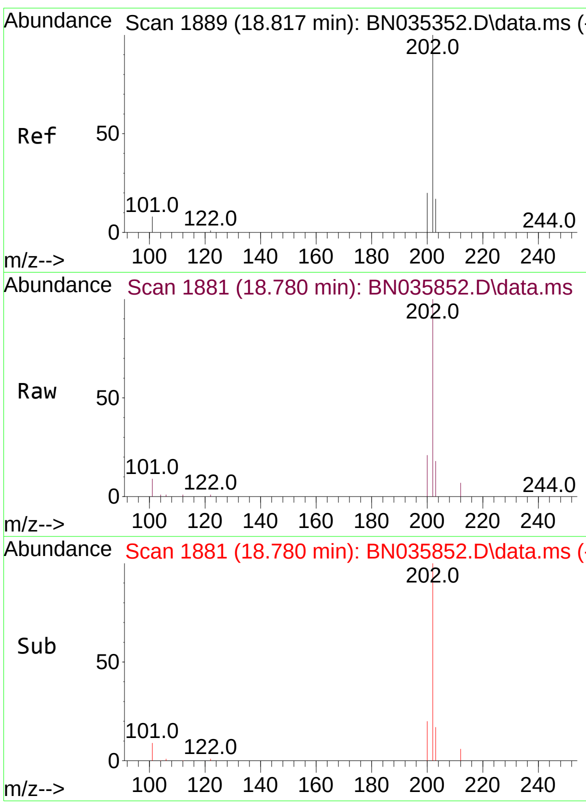
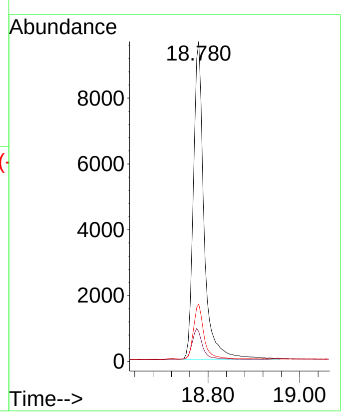


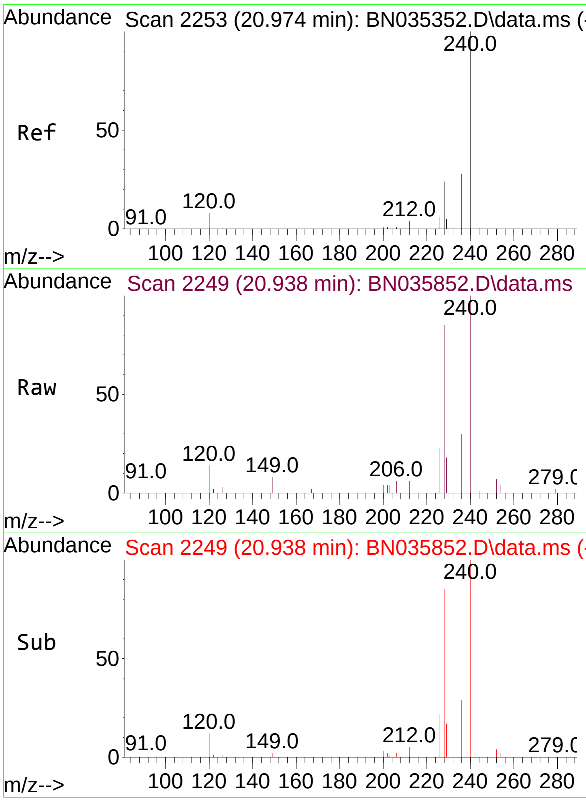


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.4	11.0
203	16.8	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:240 Resp: 925

Ion	Ratio	Lower	Upper
240	100		
120	14.3	7.9	11.9#
236	29.9	22.9	34.3

Manual Integrations
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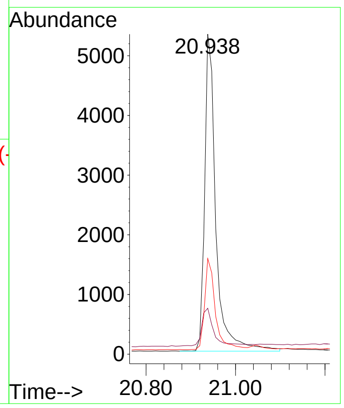
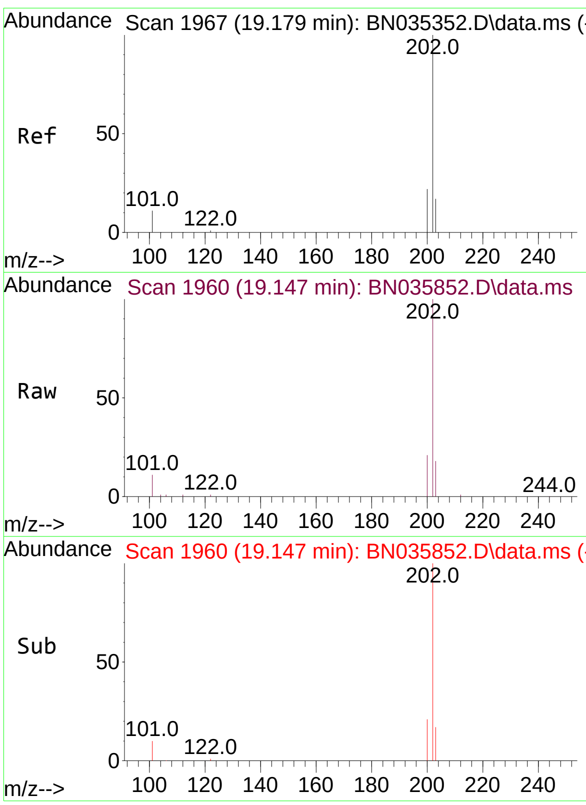
Supervised By :mohammad ahmed 12/27/2024

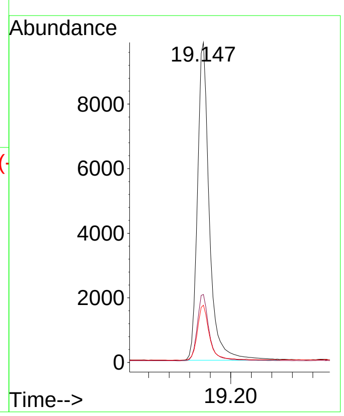


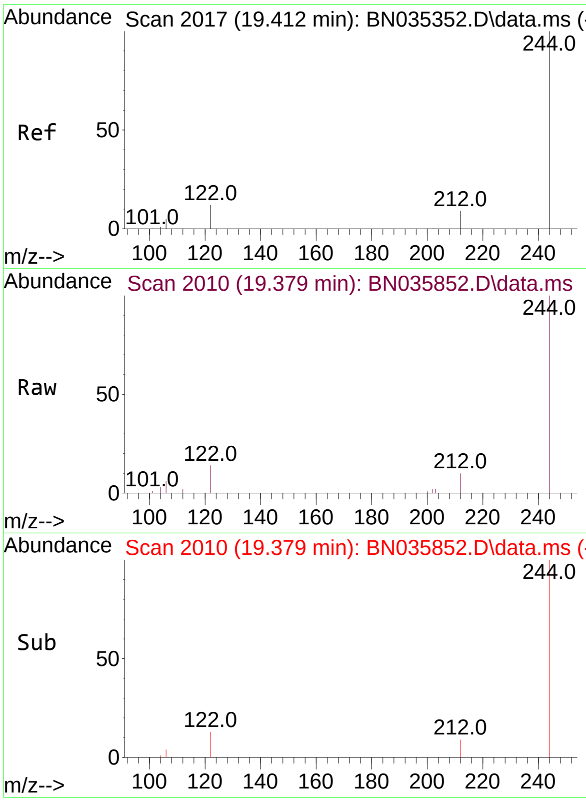


#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5

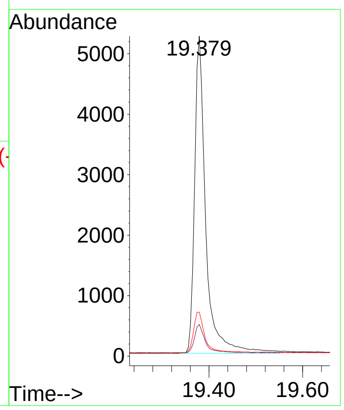




#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:244 Resp: 869(

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.7	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165828BS

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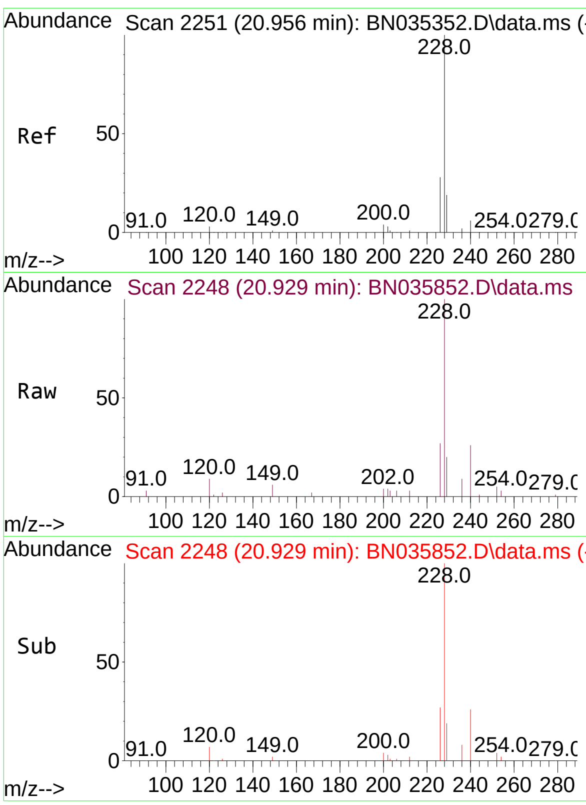
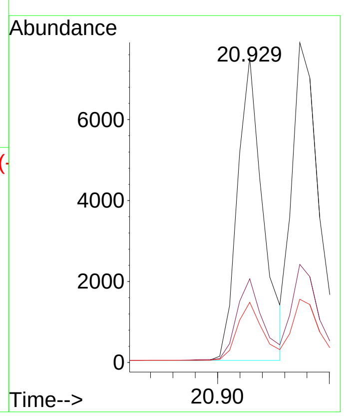
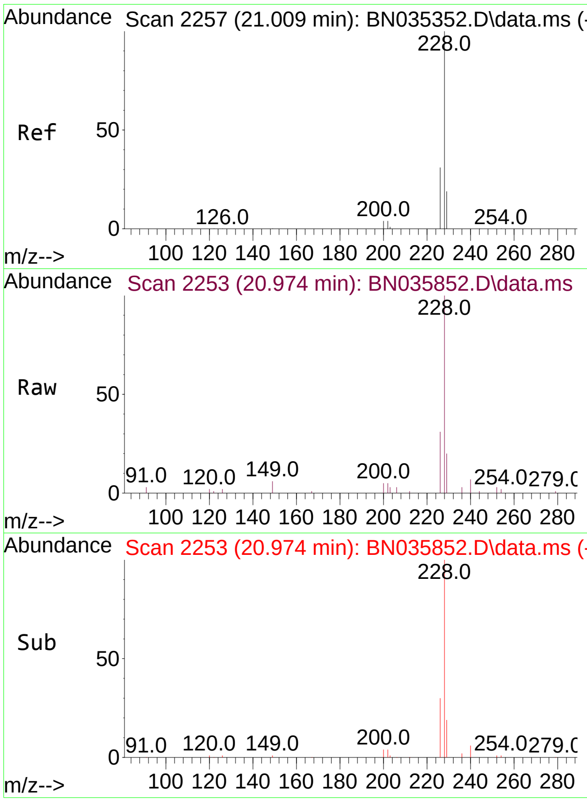


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.7	15.8	23.8





#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 1424

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.8	15.9	23.9

Instrument :
BNA_N
ClientSampleId :
PB165828BS

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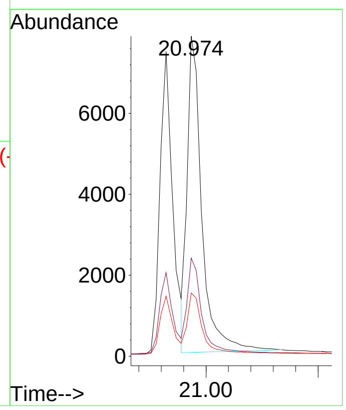
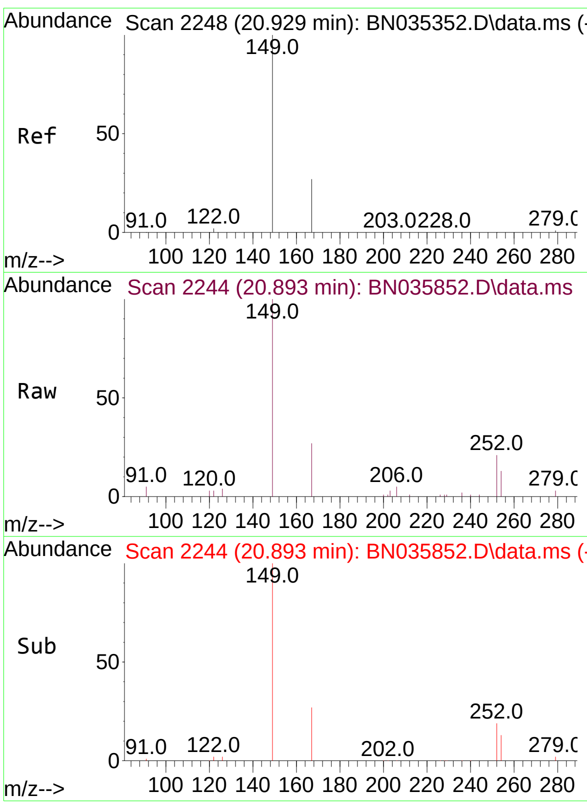
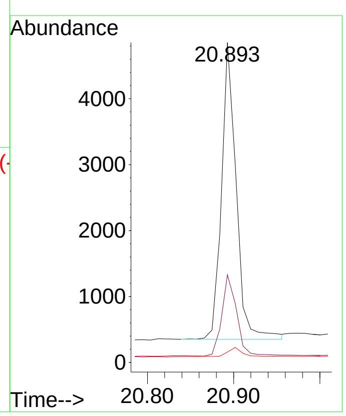


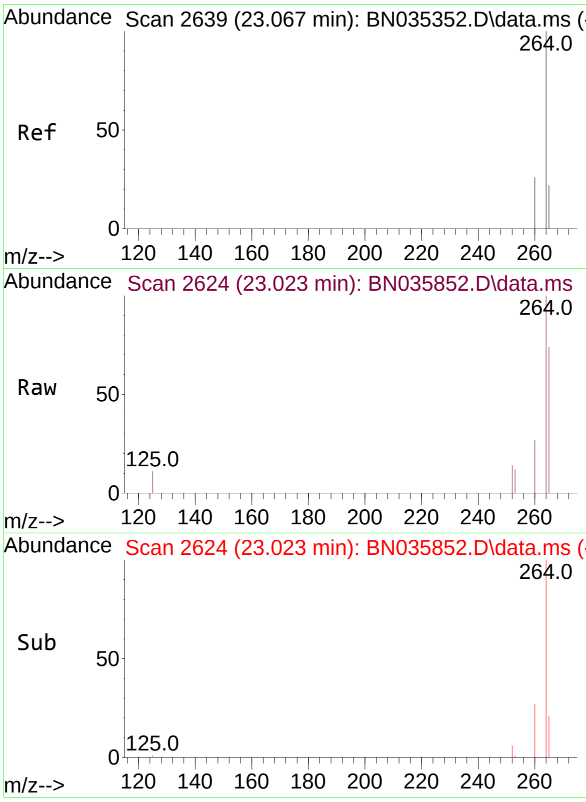


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.3	2.7	4.1

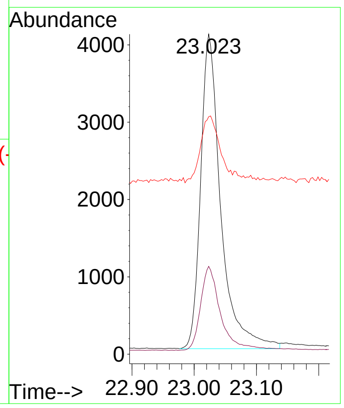




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:264 Resp: 914

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	74.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165828BS

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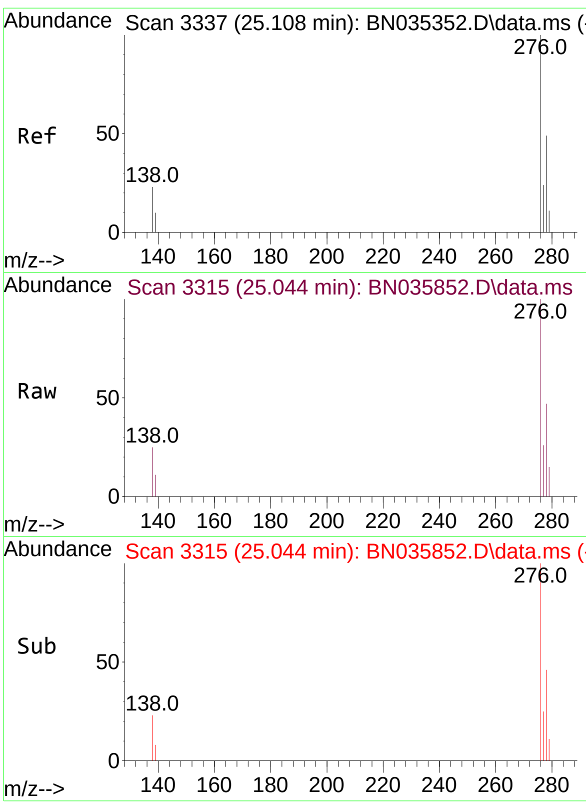
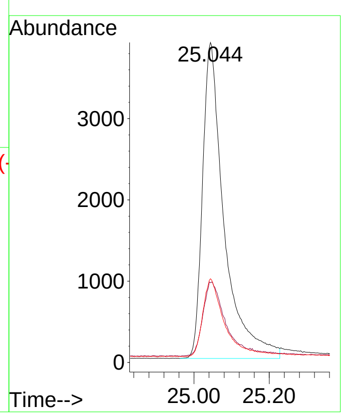
Supervised By :mohammad ahmed 12/27/2024

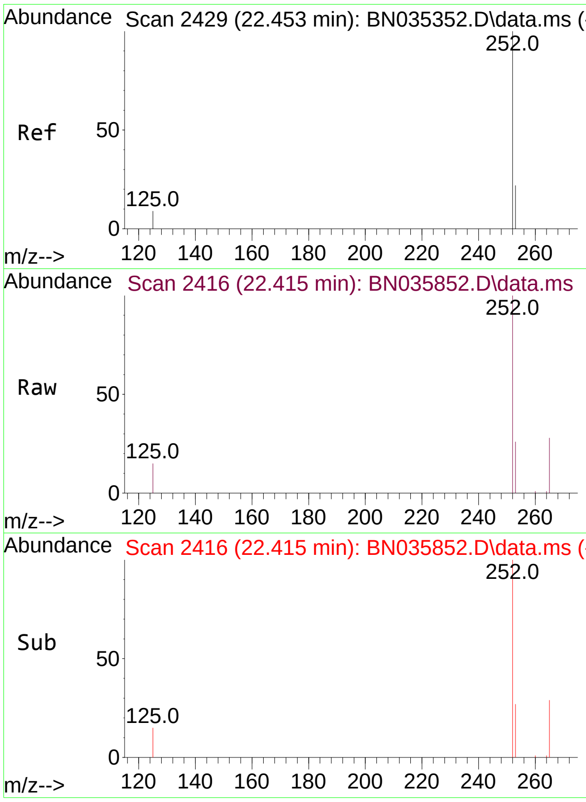


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.9	19.8	29.6





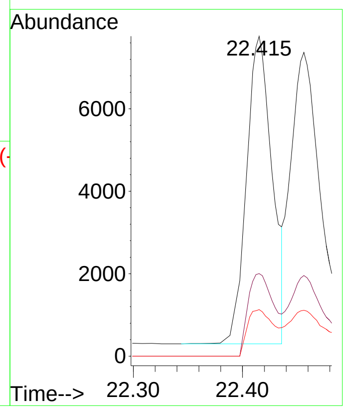
#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

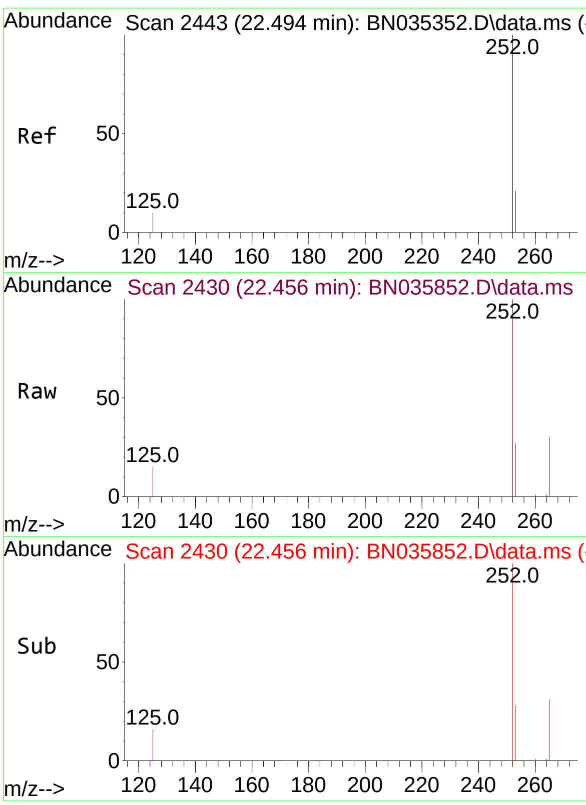
Tgt Ion:252 Resp: 1943

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	14.5	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

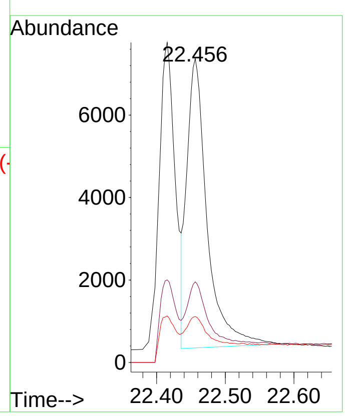


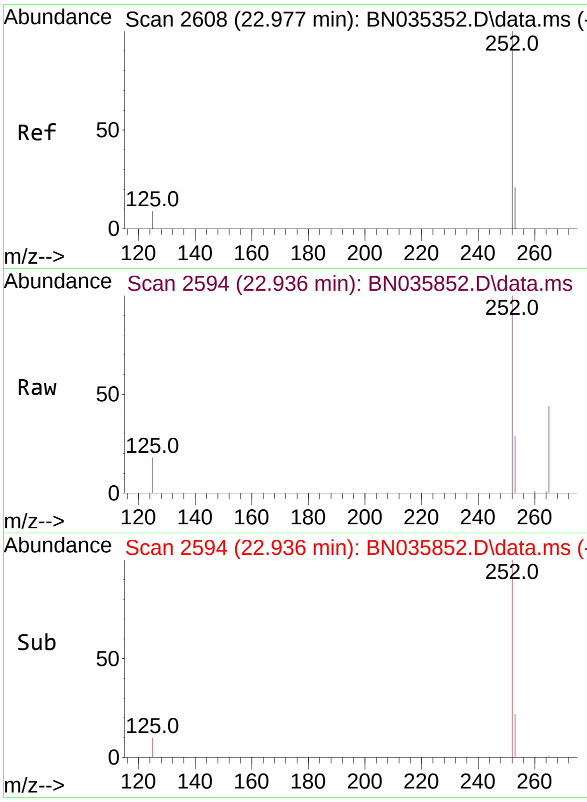


#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.1	10.2	15.4





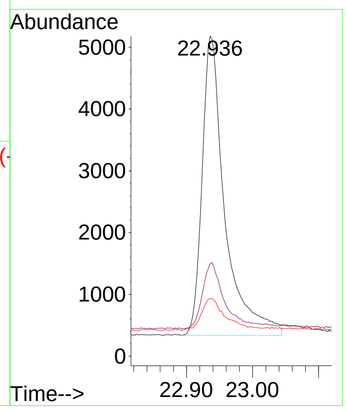
#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2!
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

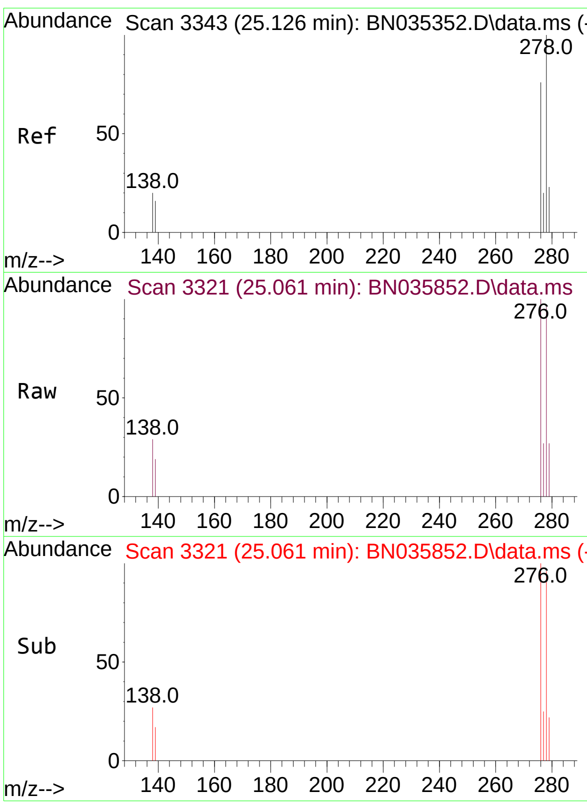
Tgt Ion:252 Resp: 1162

Ion	Ratio	Lower	Upper
252	100		
253	29.0	20.2	30.4
125	18.0	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024

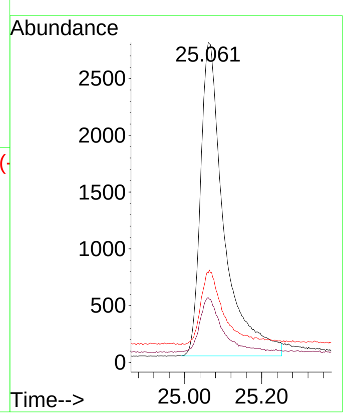


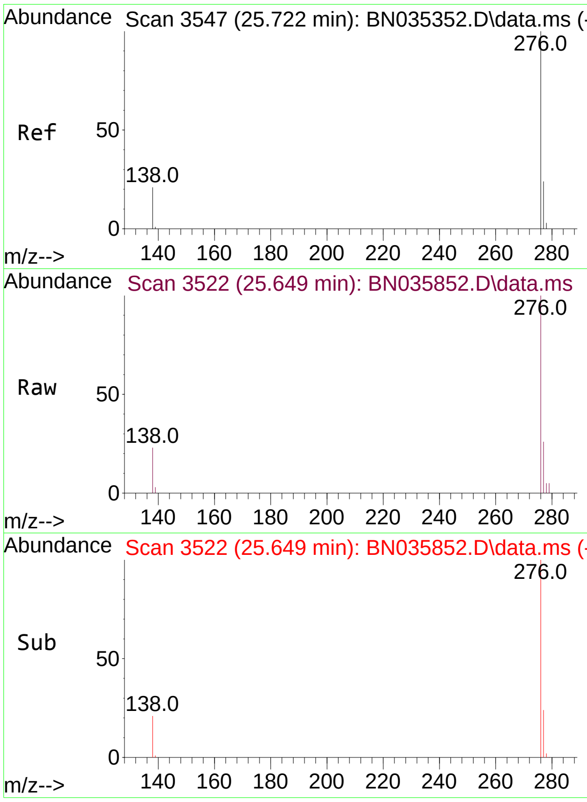


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

Ion	Ratio	Lower	Upper
278	100		
139	20.2	14.2	21.4
279	28.0	20.5	30.7





#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 35
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

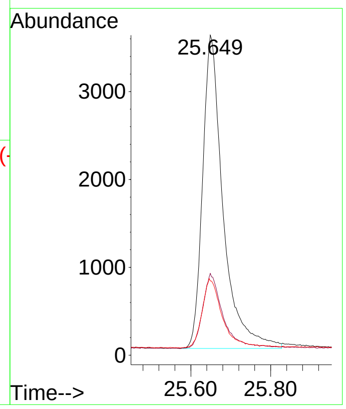
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:276 Resp: 12710

Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.9	29.9
138	23.2	17.8	26.8

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/27/2024



Raw Data: **BN035821.D**

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:	12/18/24
Project:	CTO WE13	Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MS	SDG No.:	P5374
Lab Sample ID:	P5376-08MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% 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 :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035821.D	1	12/23/24 13:29	12/24/24 14:55	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		107%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		106%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		106%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3130	7.257				
1146-65-2	Naphthalene-d8	7400	9.998				
15067-26-2	Acenaphthene-d10	4430	13.914				
1517-22-2	Phenanthrene-d10	9040	16.686				
1719-03-5	Chrysene-d12	8800	20.947				
1520-96-3	Perylene-d12	9480	23.026				

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: **BN035821.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	3131	0.400 ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400 ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400 ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400 ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400 ng	#-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.932	112	943	0.120 ng	0.00
5) Phenol-d6	6.477	99	545	0.058 ng	-0.01
8) Nitrobenzene-d5	8.397	82	1912m	0.423 ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427 ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220 ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375 ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425 ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	909	0.304 ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158 ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294 ng	98
9) Naphthalene	10.052	128	7736	0.396 ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327 ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366 ng	99
16) Acenaphthylene	13.625	152	8059	0.433 ng	99
17) Acenaphthene	13.978	154	5206	0.421 ng	99
18) Fluorene	14.983	166	6975	0.394 ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299 ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370 ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424 ng	98
23) Atrazine	16.189	200	1523	0.405 ng	96
24) Pentachlorophenol	16.363	266	1863	0.690 ng	# 86
25) Phenanthrene	16.735	178	12002	0.483 ng	100
26) Anthracene	16.822	178	10344	0.461 ng	99
28) Fluoranthene	18.780	202	14906	0.445 ng	99
30) Pyrene	19.147	202	15976	0.492 ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451 ng	99
33) Chrysene	20.983	228	16049	0.506 ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499 ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428 ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595 ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491 ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481 ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396 ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433 ng	98

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

Quantitation Report (QT Reviewed)

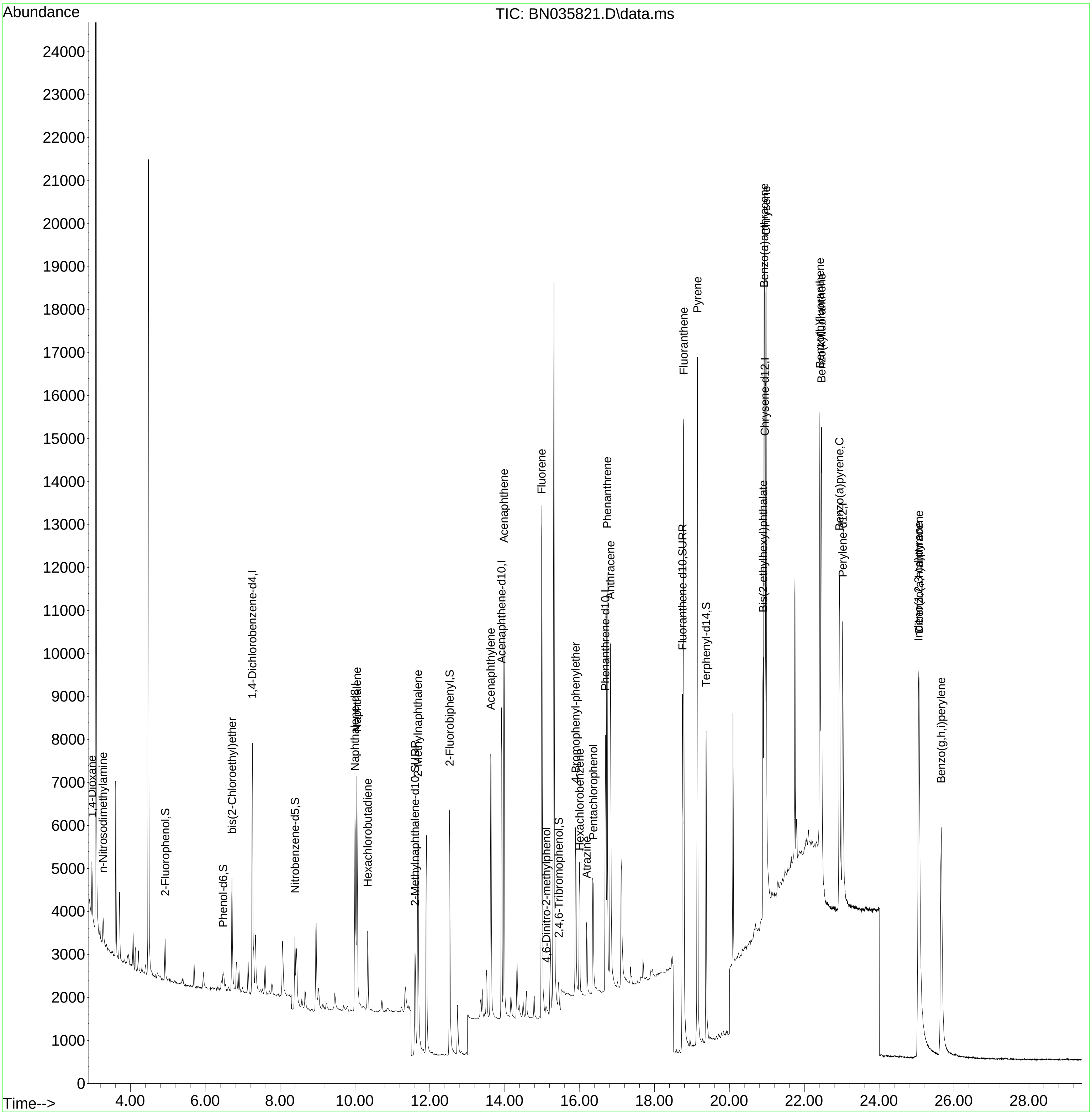
Sample Results: **BN035821.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

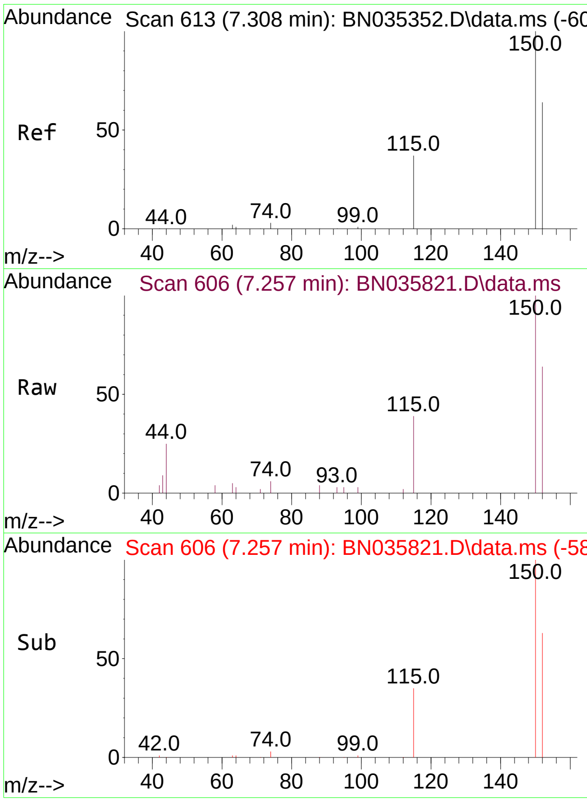


Sample Results: **BN035821.D**

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

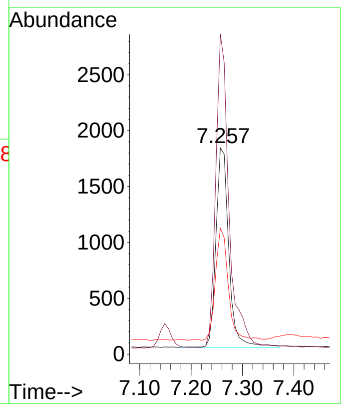
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

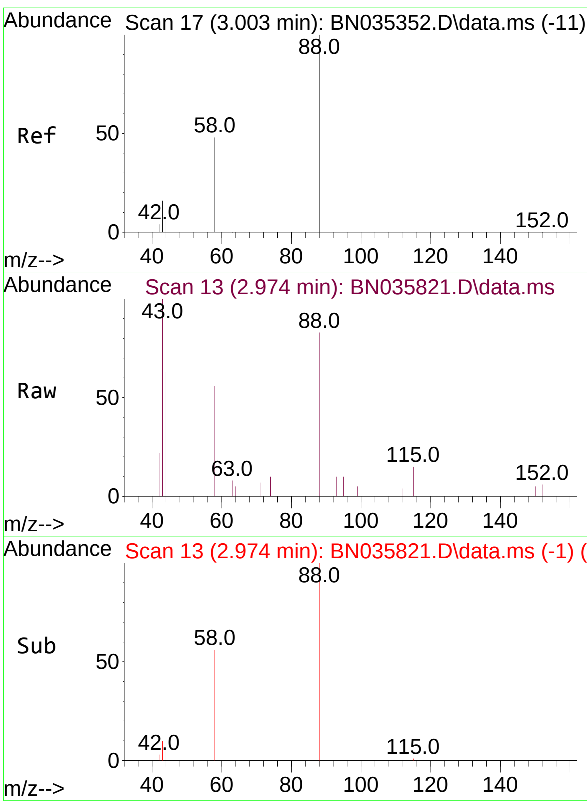


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 313

Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.0	186.0
115	61.0	49.6	74.4

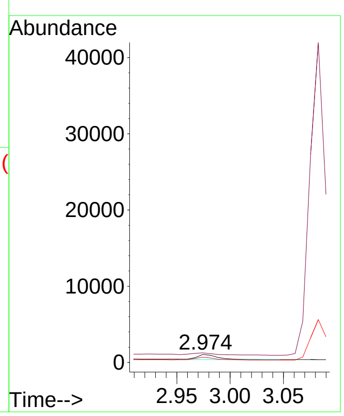


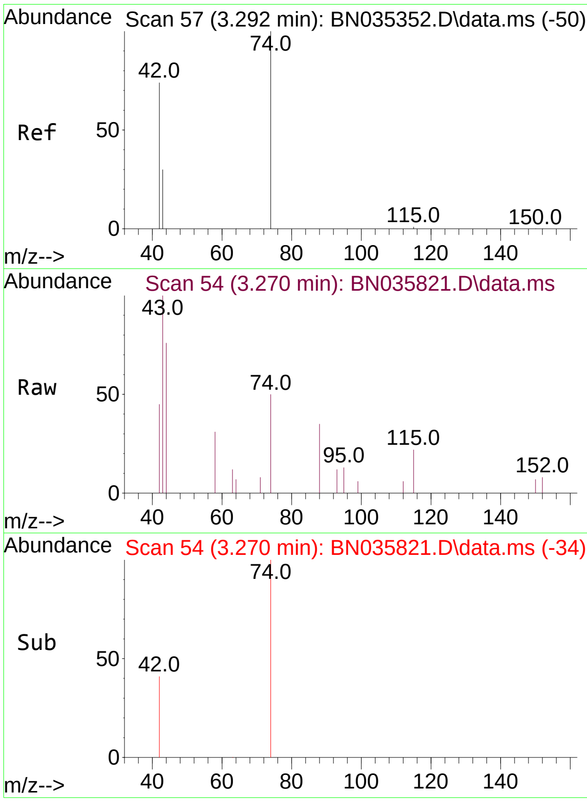


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	58.4	44.5	66.7





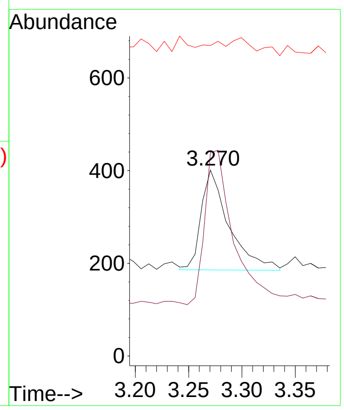
#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

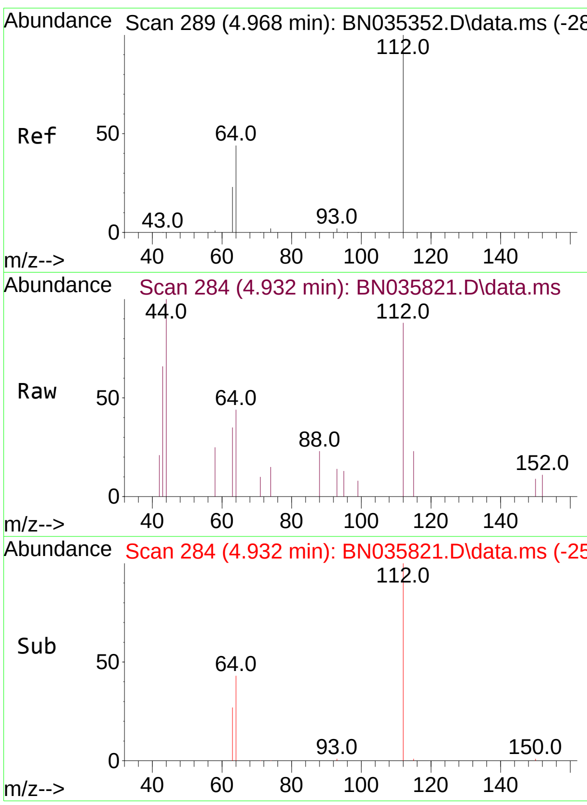
Tgt Ion: 42 Resp: 39

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	0.0	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

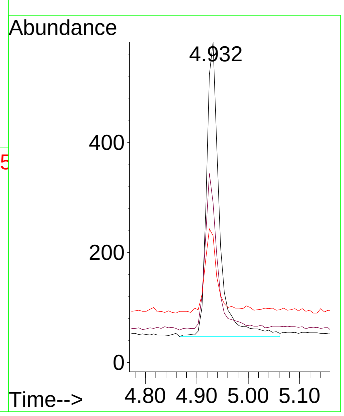




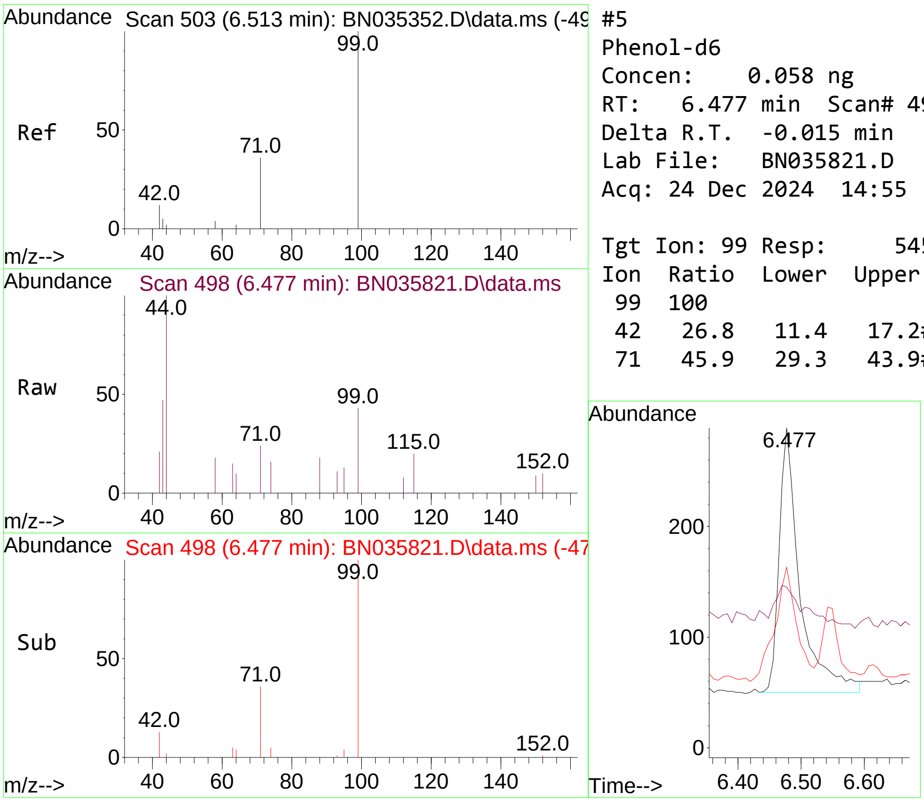
#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	28.2	21.0	31.6



Sample Results: **BN035821.D**



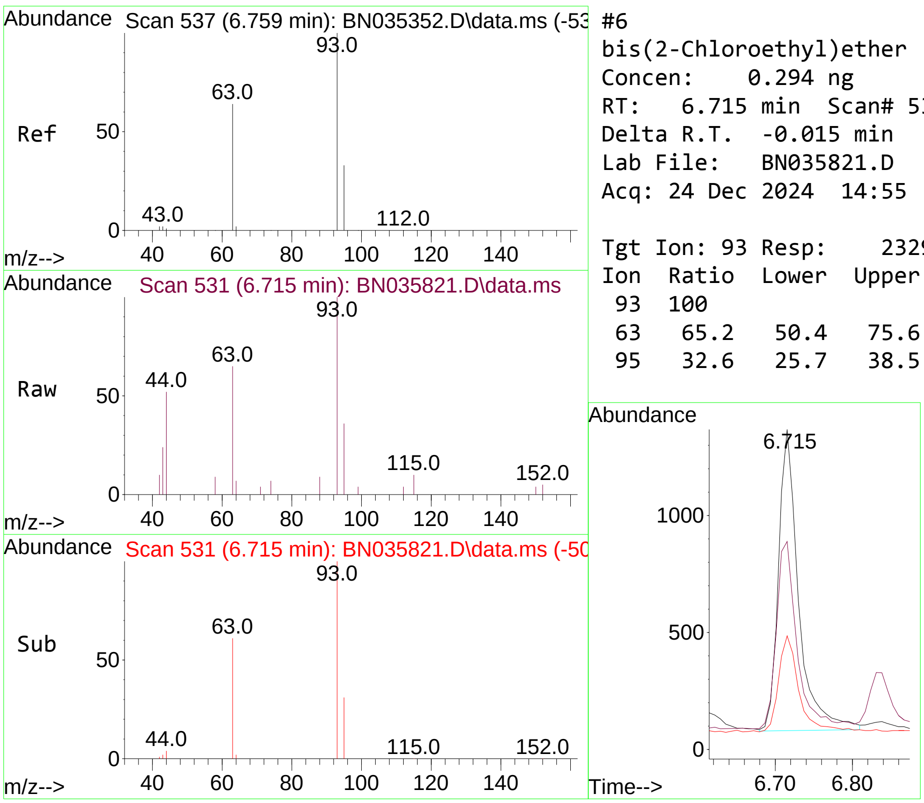
#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 49
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 99 Resp: 54

Ion	Ratio	Lower	Upper
99	100		
42	26.8	11.4	17.2#
71	45.9	29.3	43.9#

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

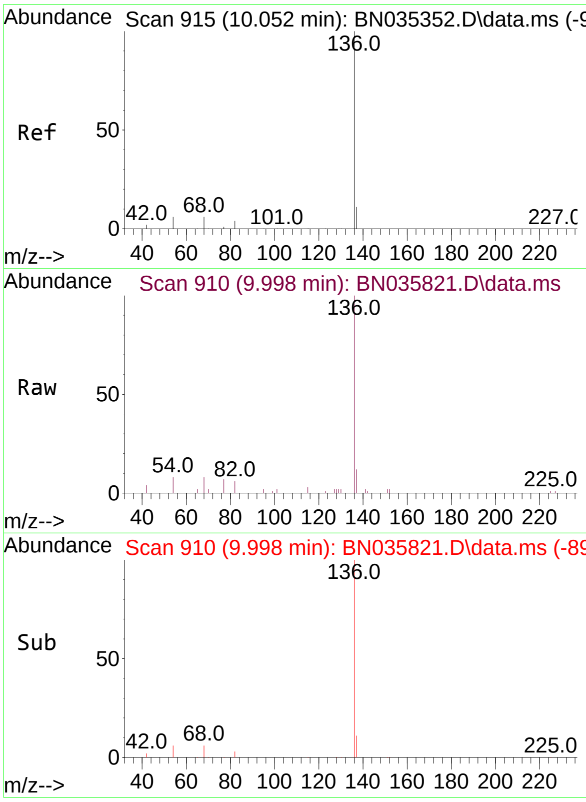
Tgt Ion: 93 Resp: 2329

Ion	Ratio	Lower	Upper
93	100		
63	65.2	50.4	75.6
95	32.6	25.7	38.5

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

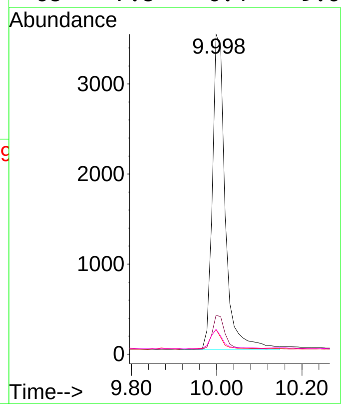
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

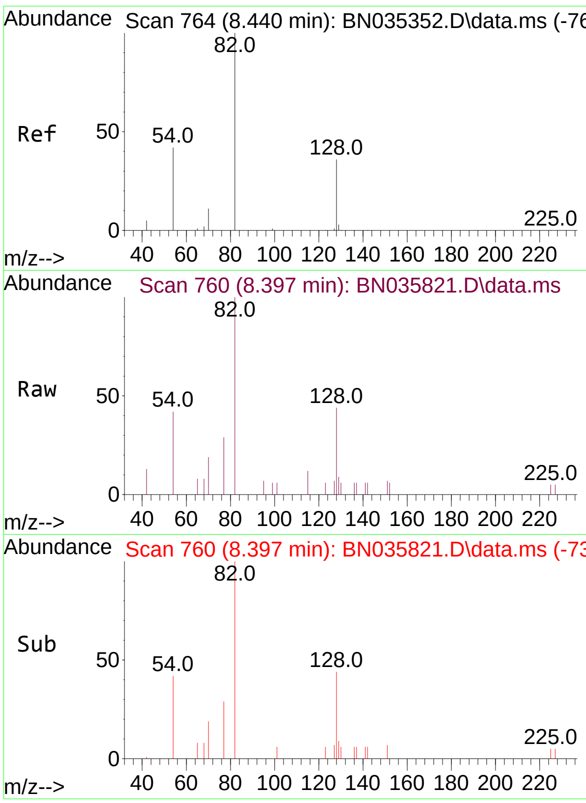


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:136 Resp: 740

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

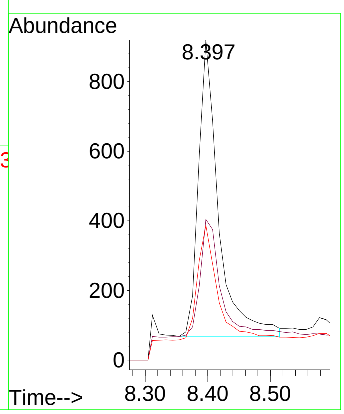




#8
Nitrobenzene-d5
Concen: 0.423 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 1912

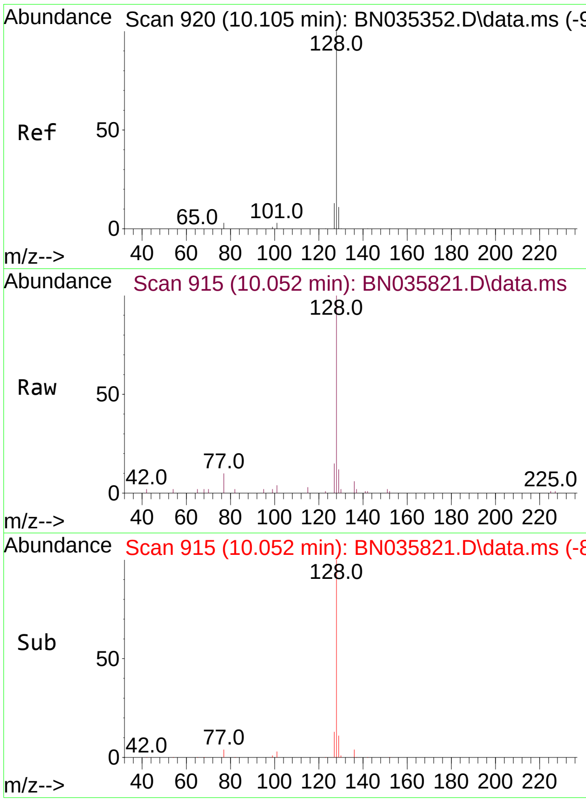
Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	42.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

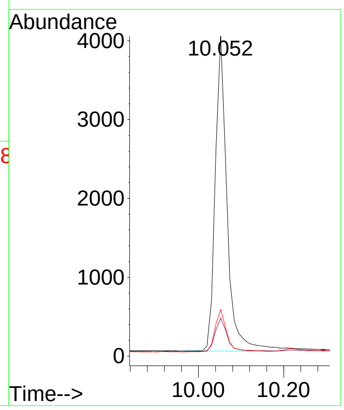
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

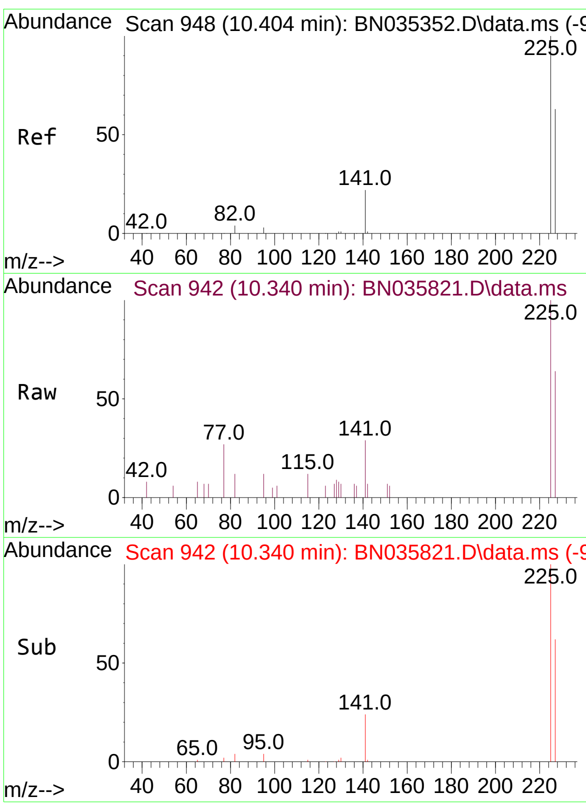


#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:128 Resp: 773

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	14.5	11.4	17.2

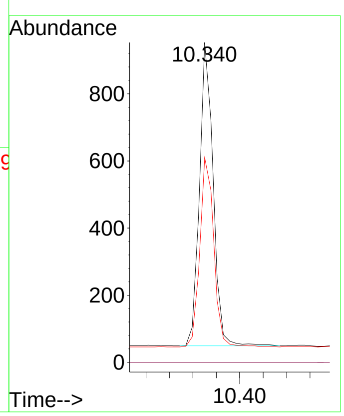




#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.3	76.9

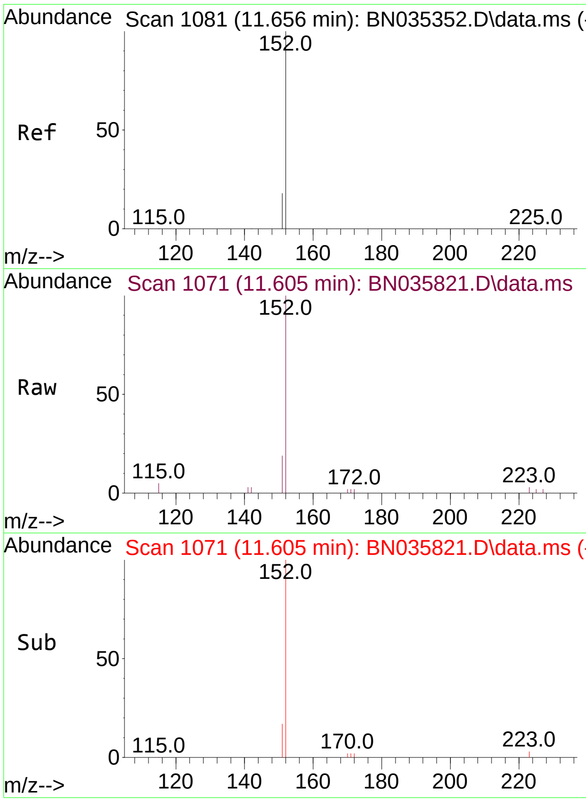


Sample Results: **BN035821.D**

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations APPROVED

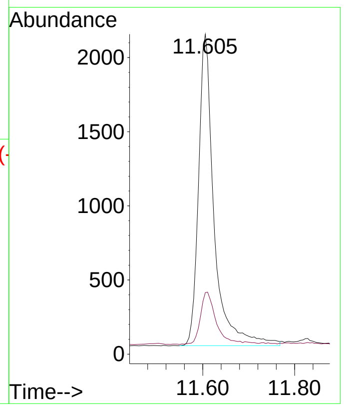
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

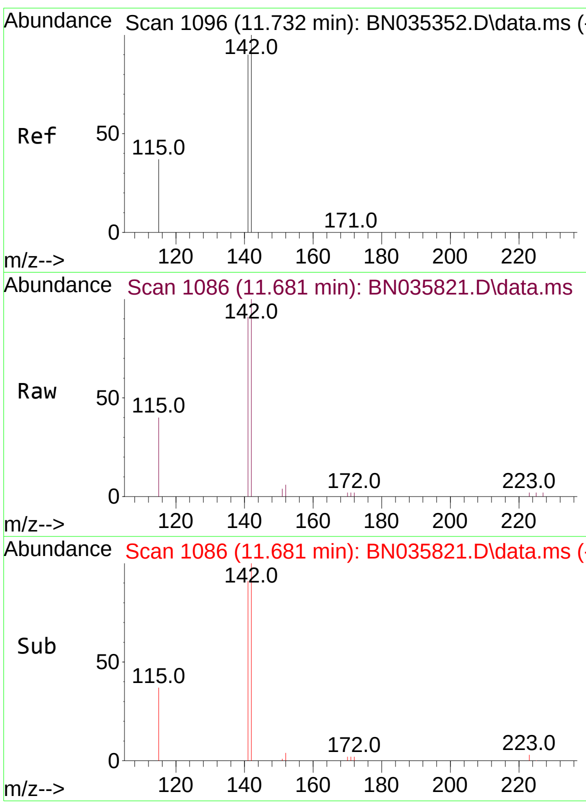


#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 495

Ion	Ratio	Lower	Upper
152	100		
151	16.7	16.6	25.0

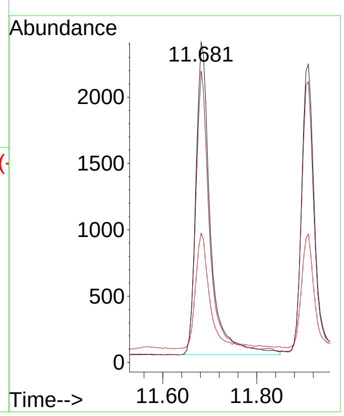


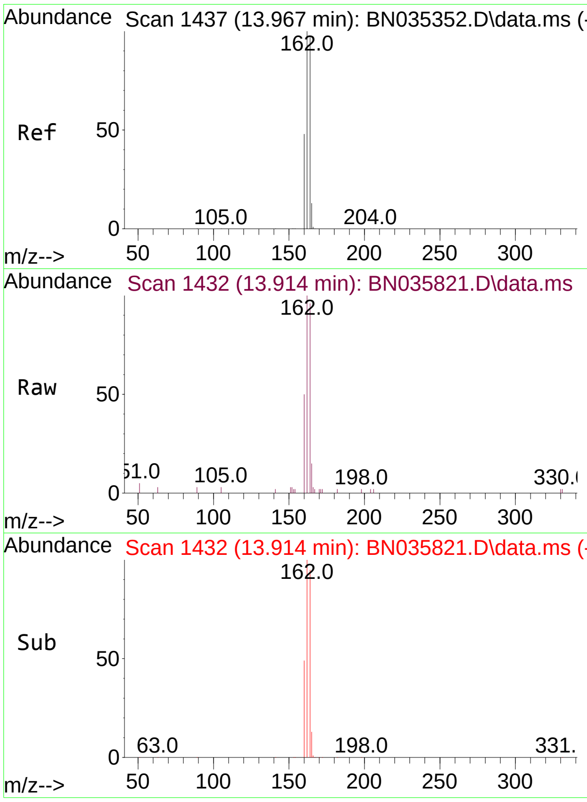


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	40.3	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:164 Resp: 443

Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.4	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
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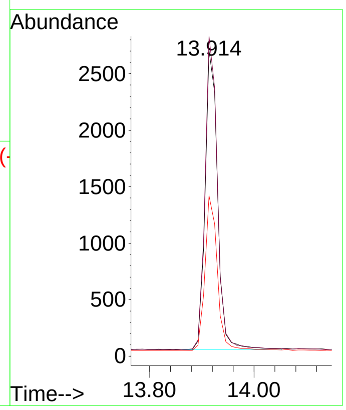
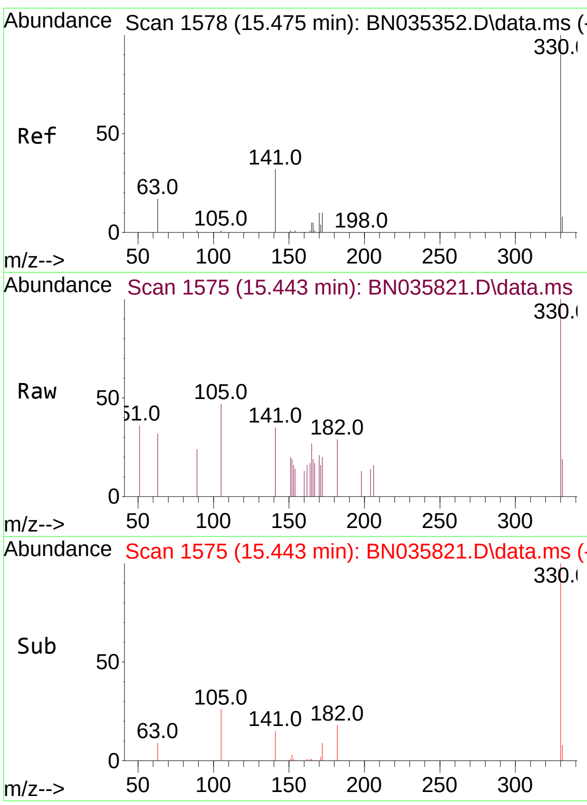
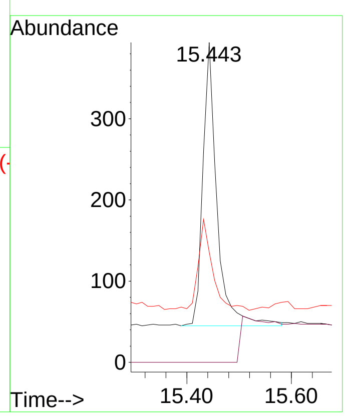


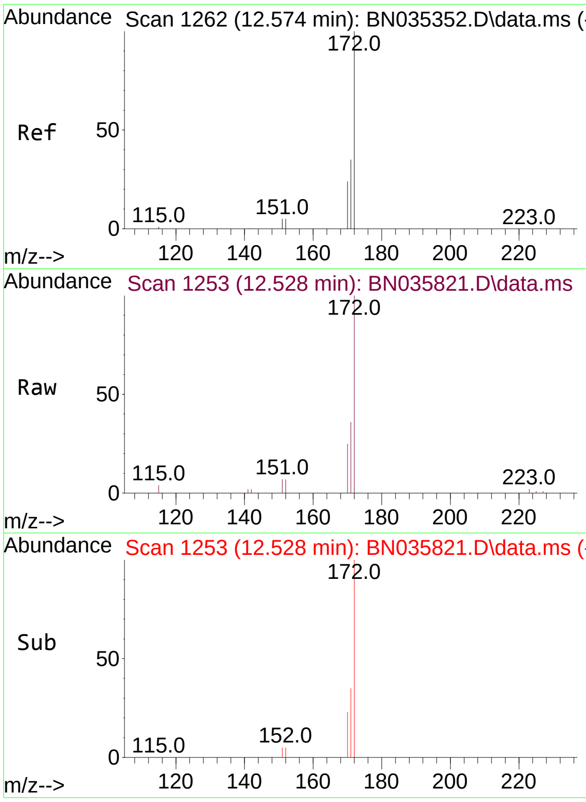


#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.1	26.6	40.0





#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:172 Resp: 628

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.6	19.8	29.8

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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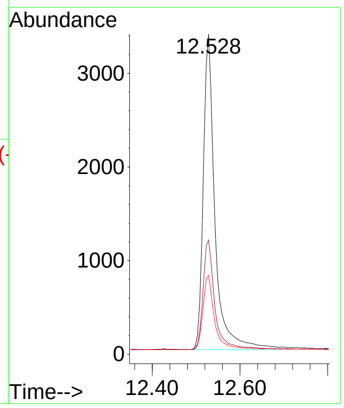
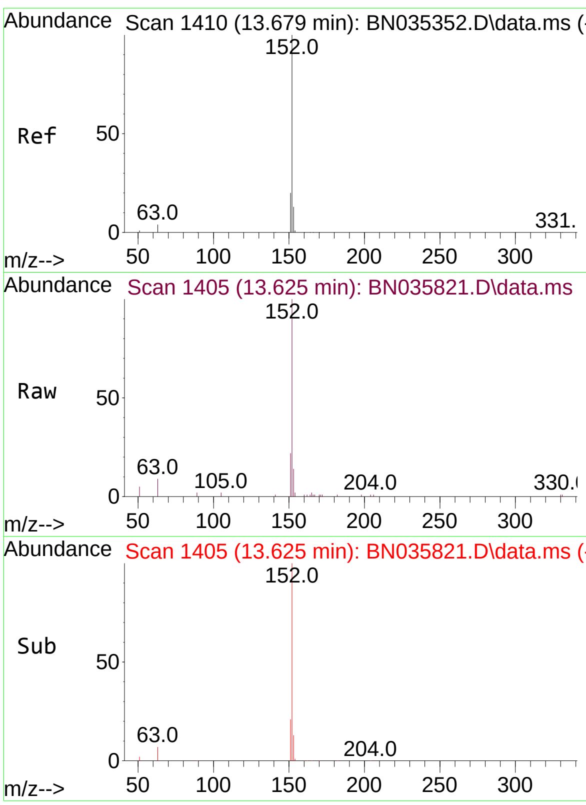
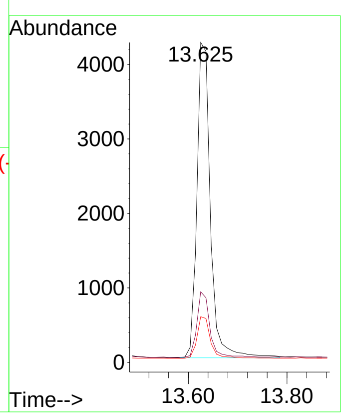


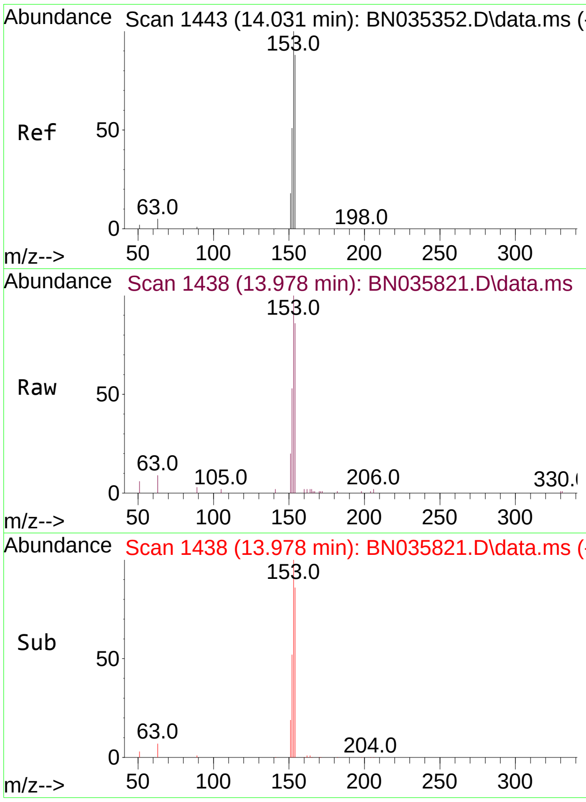


#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.4	10.4	15.6





#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:154 Resp: 520

Ion	Ratio	Lower	Upper
154	100		
153	116.9	92.6	139.0
152	60.7	49.0	73.6

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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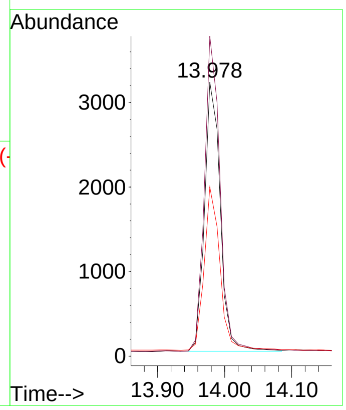
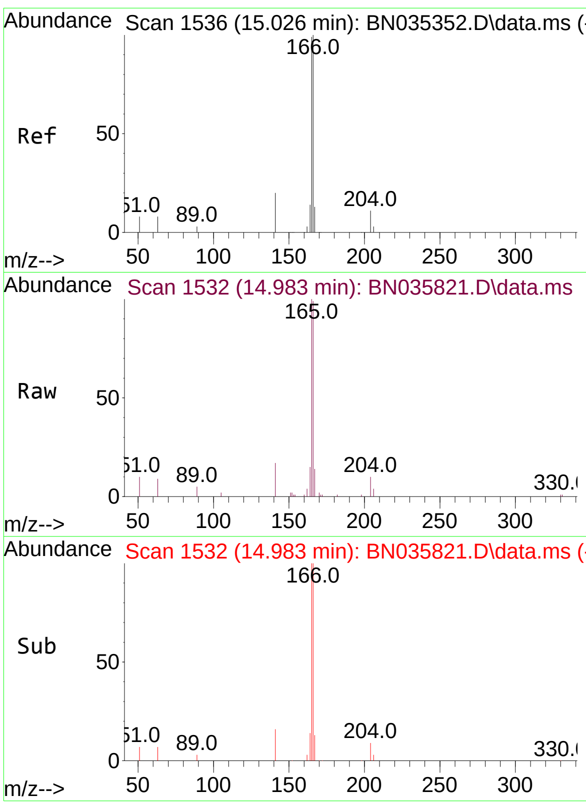
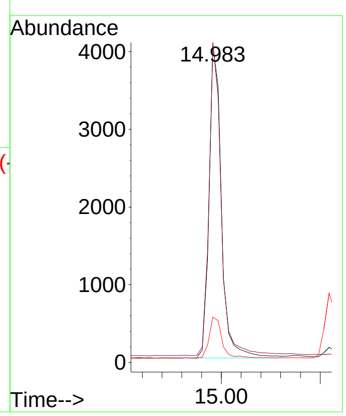




#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	14.0	10.8	16.2



Instrument :
BNA_N
ClientSampleId :
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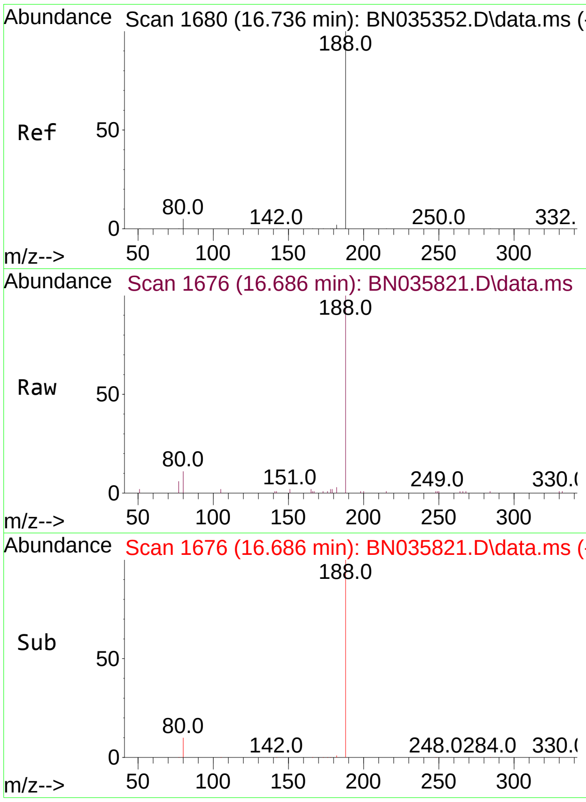
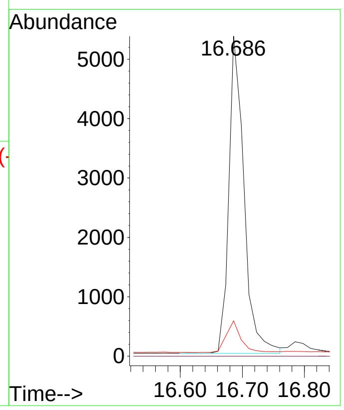
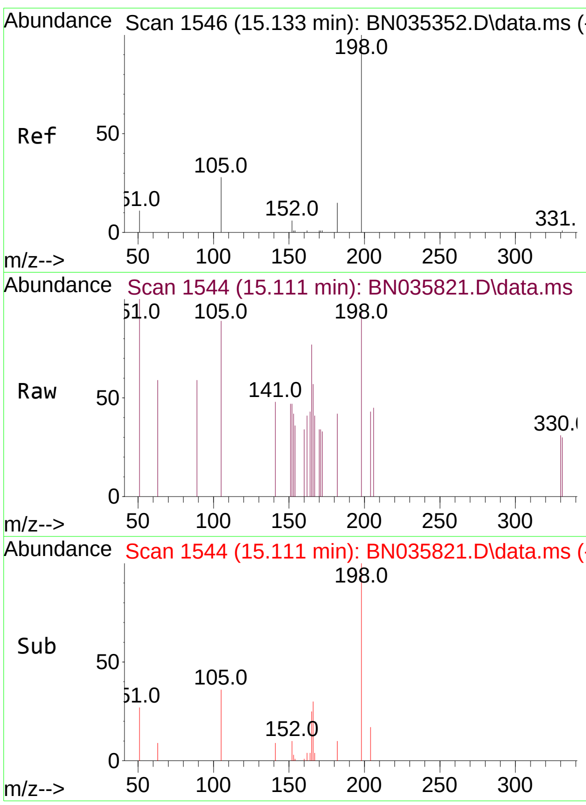


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:188 Resp: 904(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	4.6	6.8#

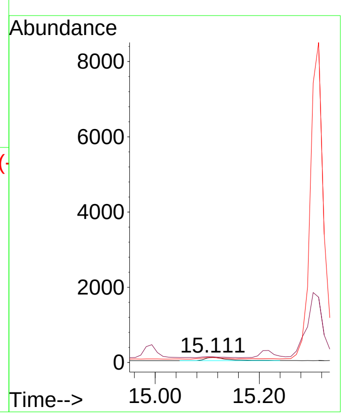


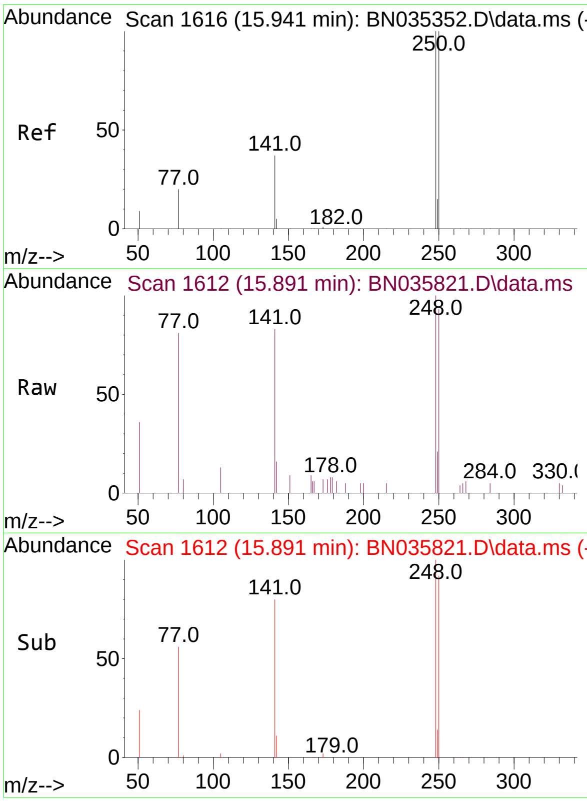


#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

Ion	Ratio	Lower	Upper
198	100		
51	108.0	46.5	69.7#
105	96.4	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min   Scan# 1(
Delta R.T.   -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024   14:55

Tgt Ion:248 Resp: 195(

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	83.3	31.5	47.3:

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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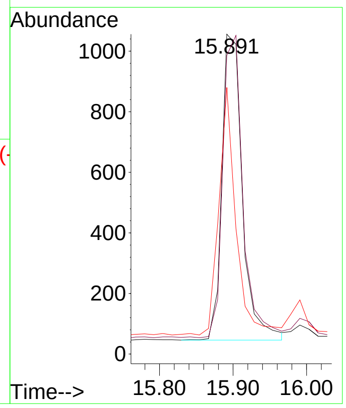
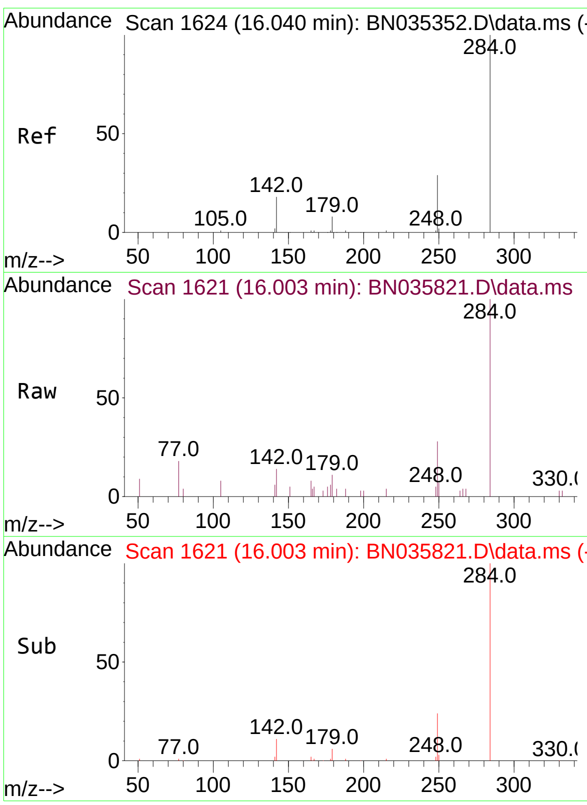
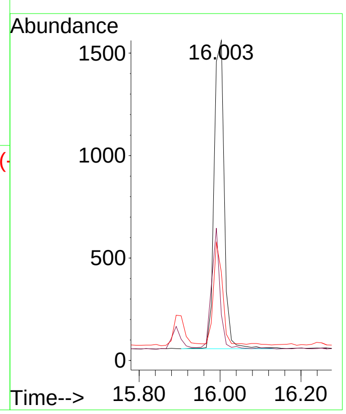




#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min   Scan# 1621
Delta R.T.   -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024   14:55

Tgt Ion:284 Resp: 2633

Ion	Ratio	Lower	Upper
284	100		
142	32.3	26.7	40.1
249	29.1	24.6	36.8



Instrument :
BNA_N
ClientSampleId :
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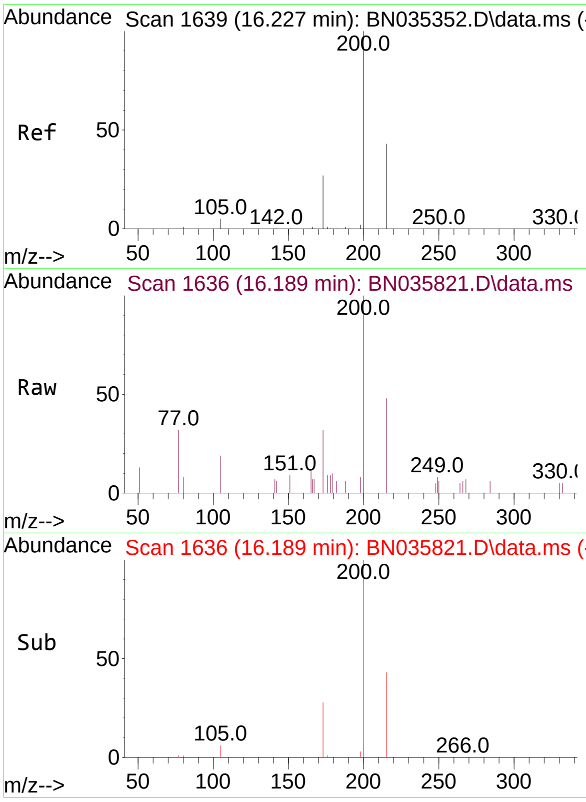
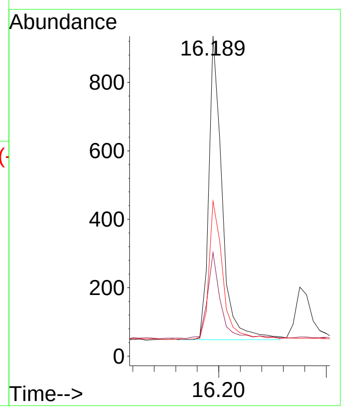
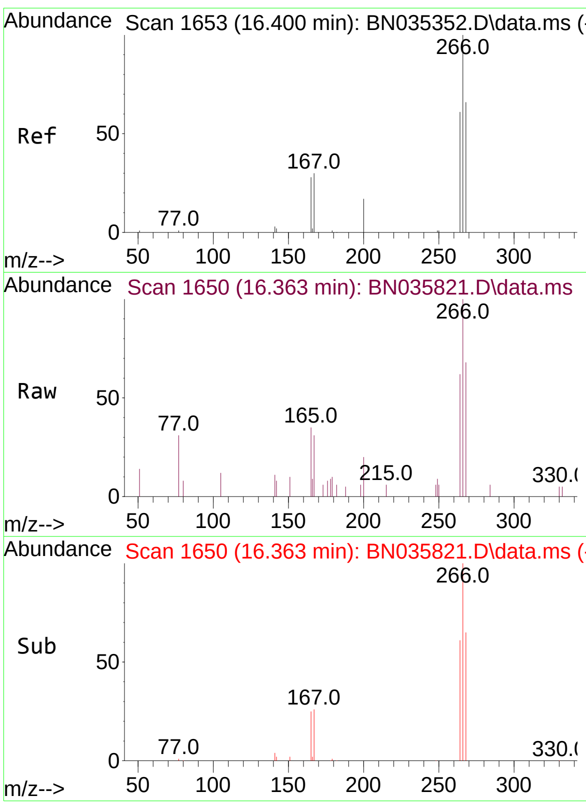
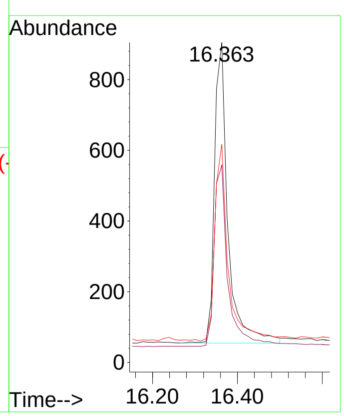



```
#23
Atrazine
Concen:    0.405 ng
RT:  16.189 min  Scan# 1(
Delta R.T.   -0.013 min
Lab File:    BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:200 Resp:    152
Ion  Ratio  Lower  Upper
200  100
173   32.4   24.1   36.1
215   48.4   36.9   55.3
```






```
#24
Pentachlorophenol
Concen:    0.690 ng
RT:  16.363 min  Scan# 1650
Delta R.T.   -0.013 min
Lab File:    BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:266 Resp:    1863
Ion  Ratio  Lower  Upper
266  100
264   61.3   42.3   63.5
268   65.9   43.3   64.9#
```



Instrument :
BNA_N
ClientSampleId :
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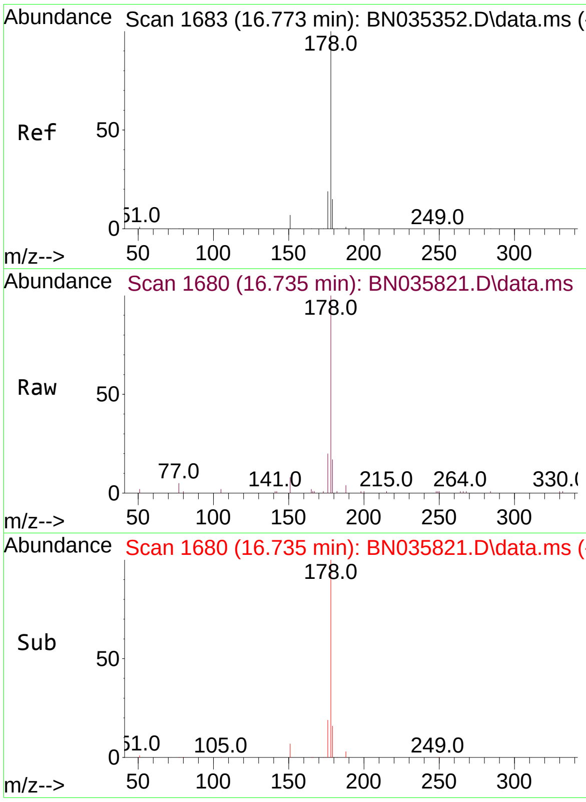
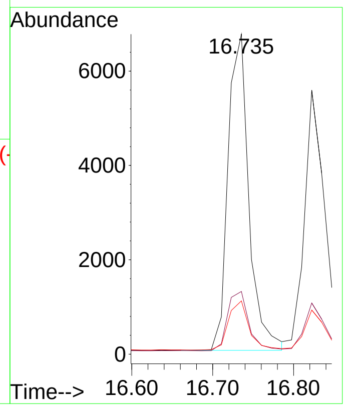
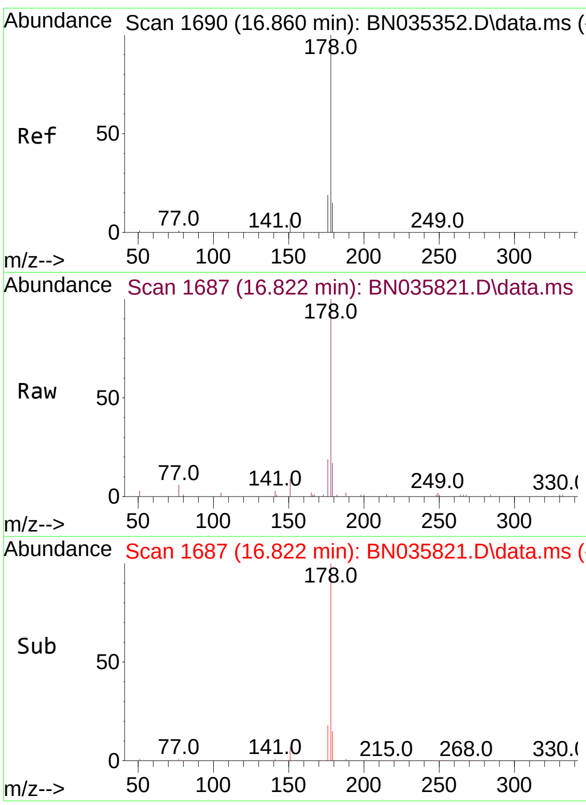
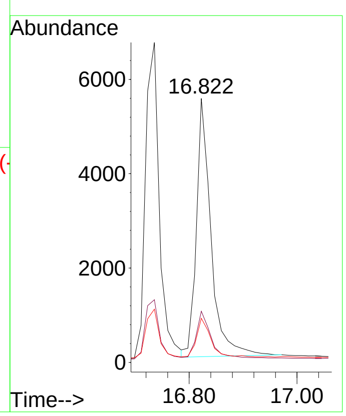



```
#25
Phenanthrene
Concen:    0.483 ng
RT:  16.735 min  Scan# 1
Delta R.T.  -0.013 min
Lab File:   BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:178 Resp:   1200
Ion  Ratio  Lower  Upper
178  100
176   19.2   15.4   23.2
179   15.4   12.3   18.5
```






```
#26
Anthracene
Concen:    0.461 ng
RT:  16.822 min  Scan# 1687
Delta R.T.  -0.013 min
Lab File:   BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:178 Resp:   10344
Ion  Ratio  Lower  Upper
178  100
176   18.3   15.0   22.6
179   14.9   12.6   18.8
```



Instrument :
BNA_N
ClientSampleId :
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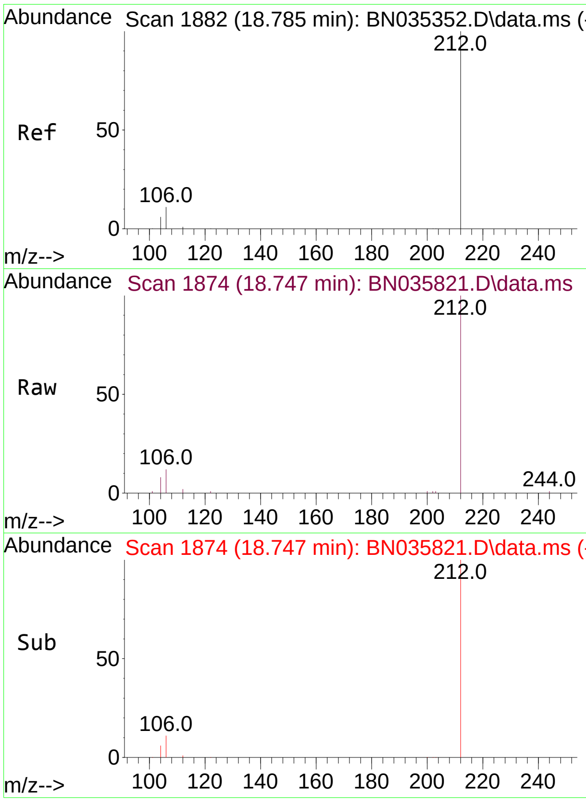
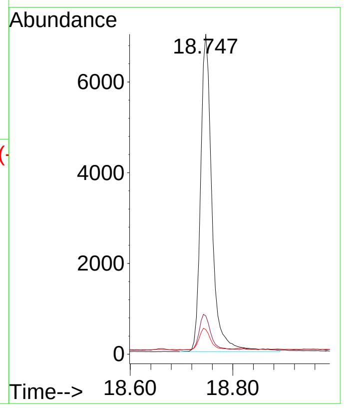
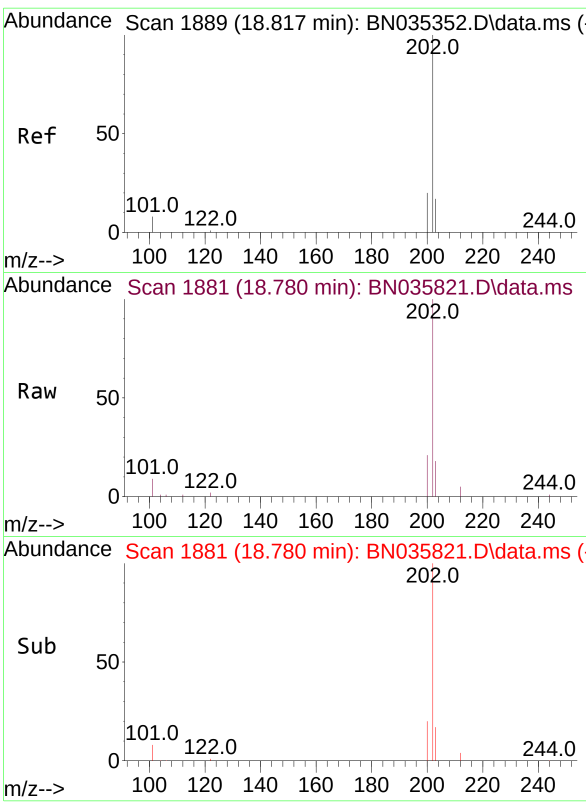


#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:212 Resp: 1089

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.7	5.3	7.9

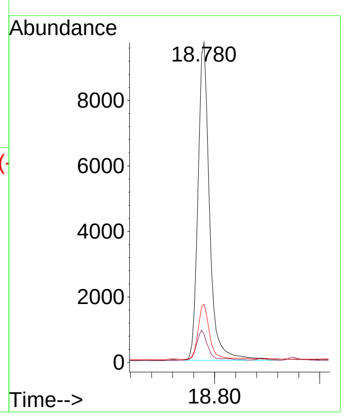




#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	17.4	13.7	20.5



Instrument :
BNA_N
ClientSampleId :
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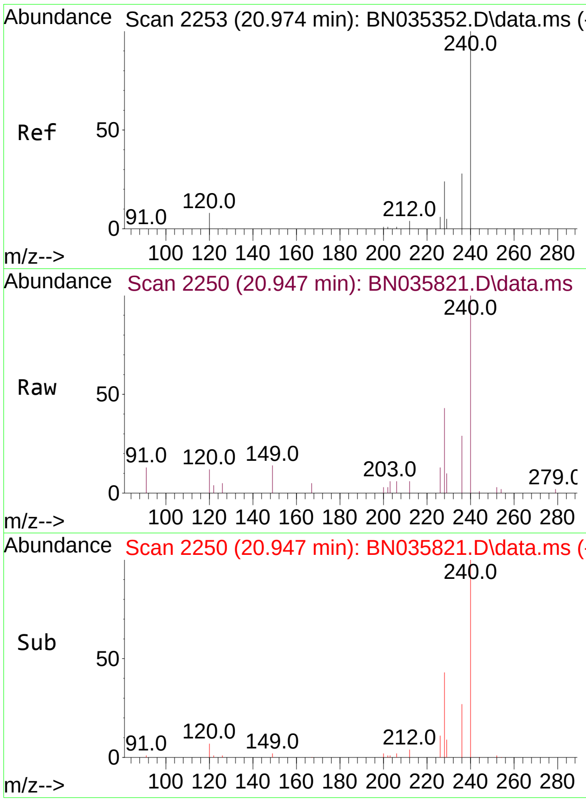
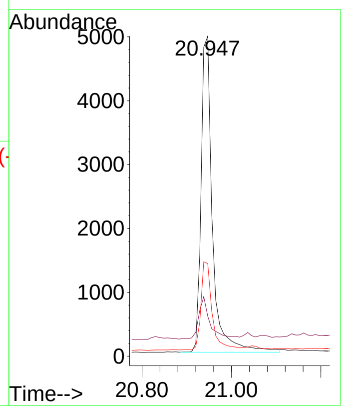
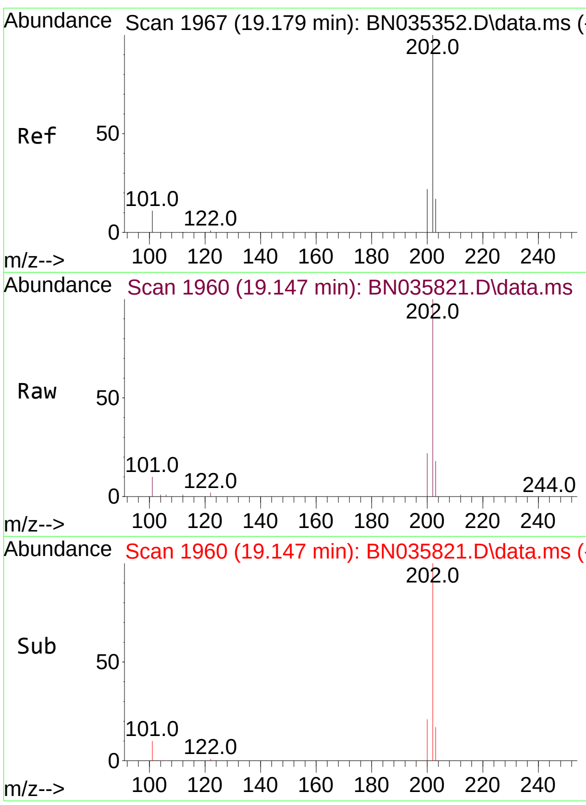


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:240 Resp: 879

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9#
236	29.0	22.9	34.3

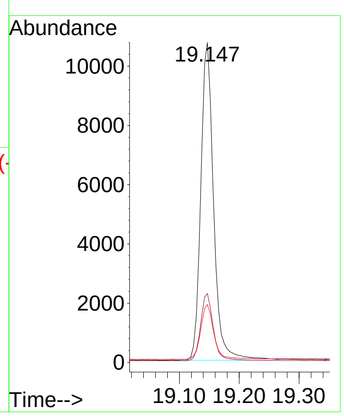


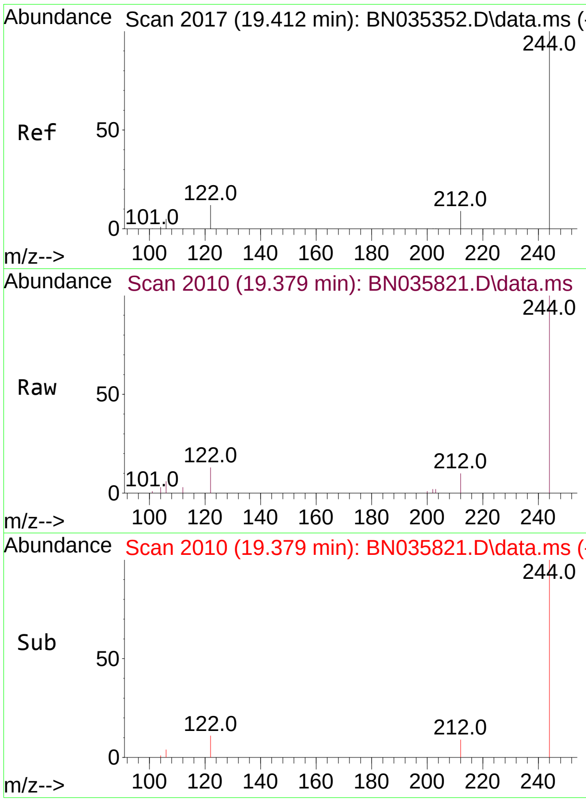


#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5





#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:244 Resp: 845

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.2	10.3	15.5

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

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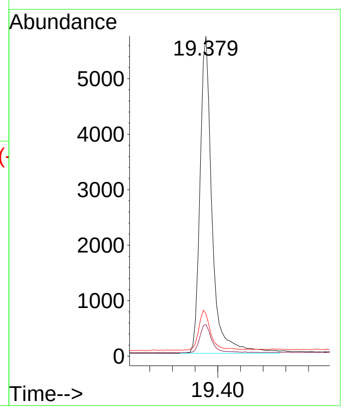
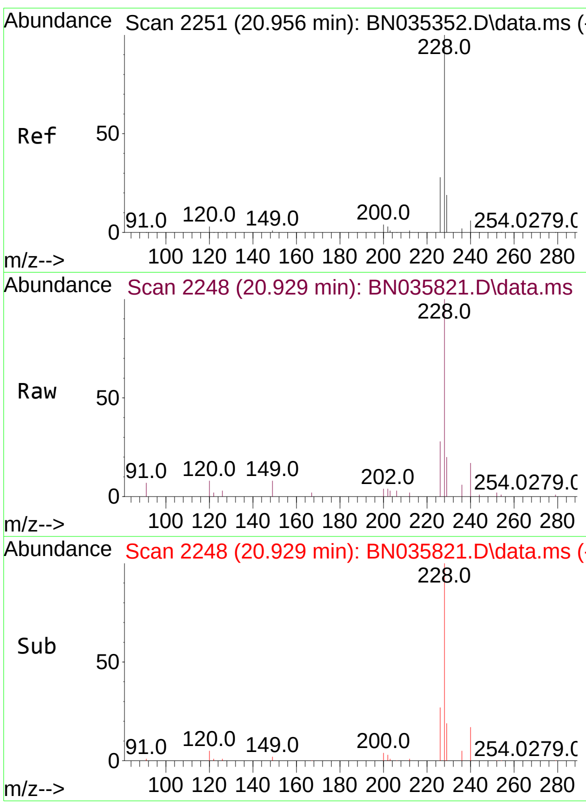
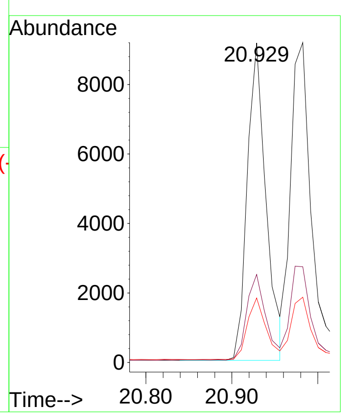


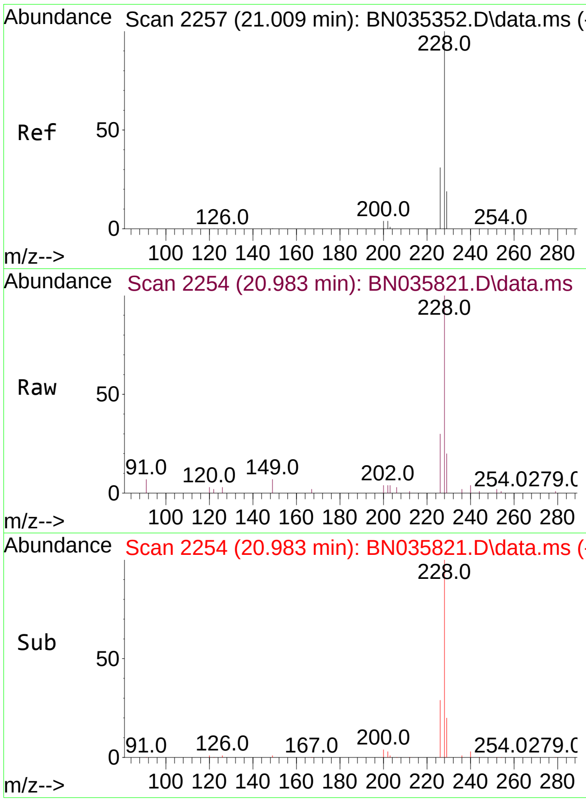


#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	20.2	15.8	23.8

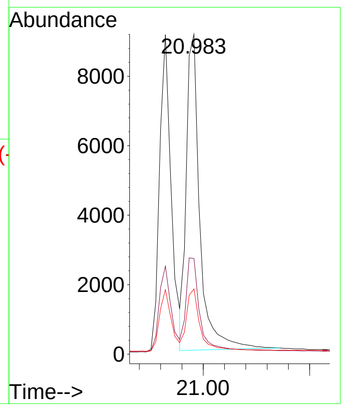




#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

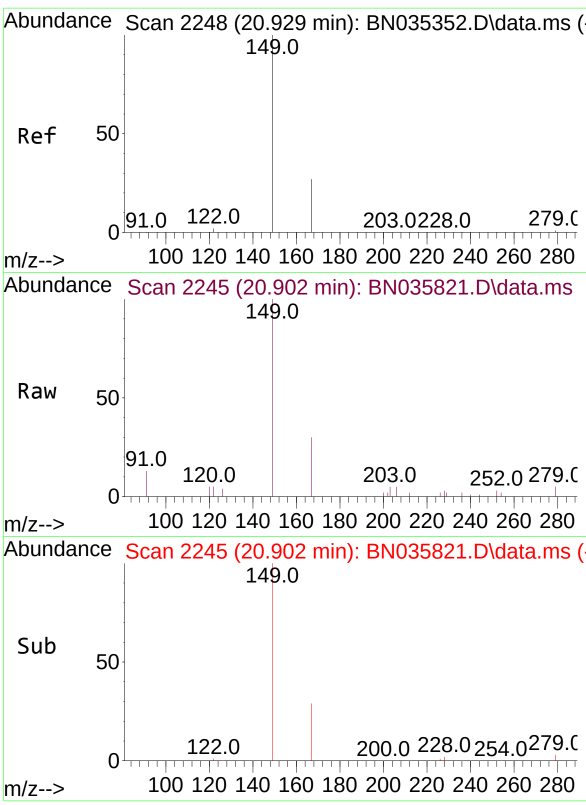
Tgt Ion:228 Resp: 1604

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

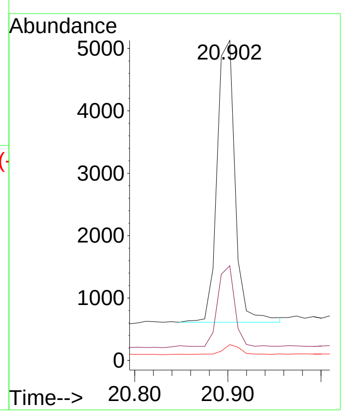
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

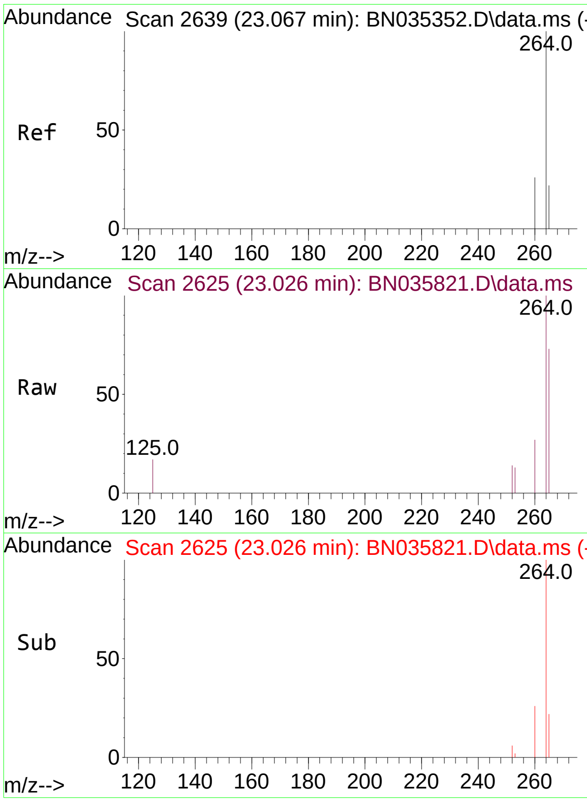
Tgt Ion:149 Resp: 6067

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	3.2	2.7	4.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

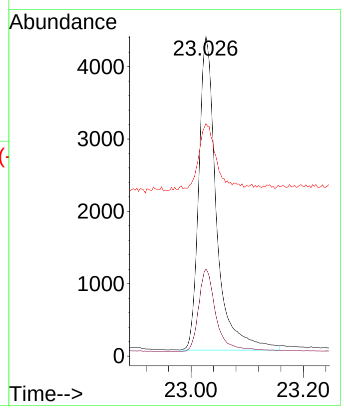
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

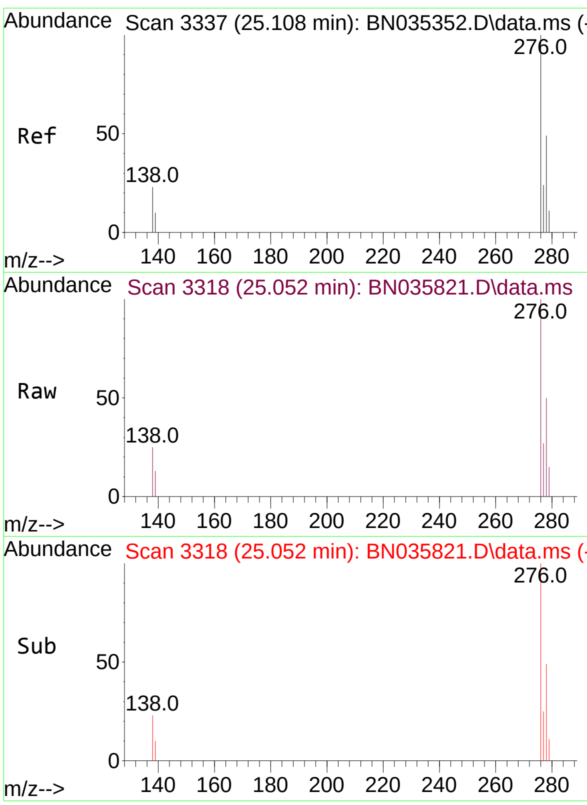


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:264 Resp: 947

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	72.7	40.2	60.4

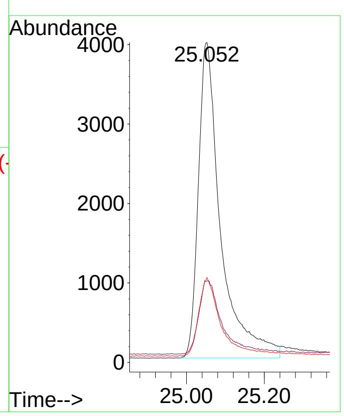




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.1	19.8	29.6

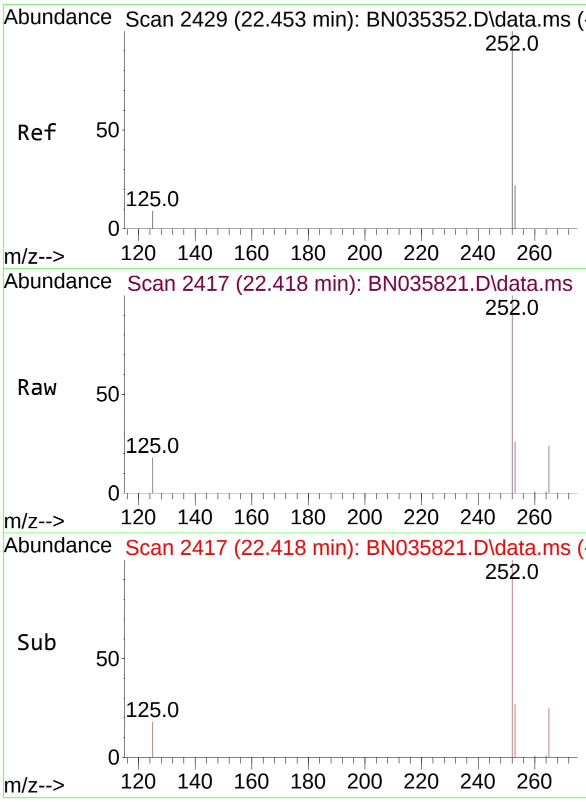


Sample Results: **BN035821.D**

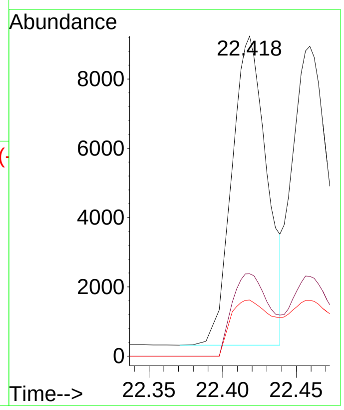
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

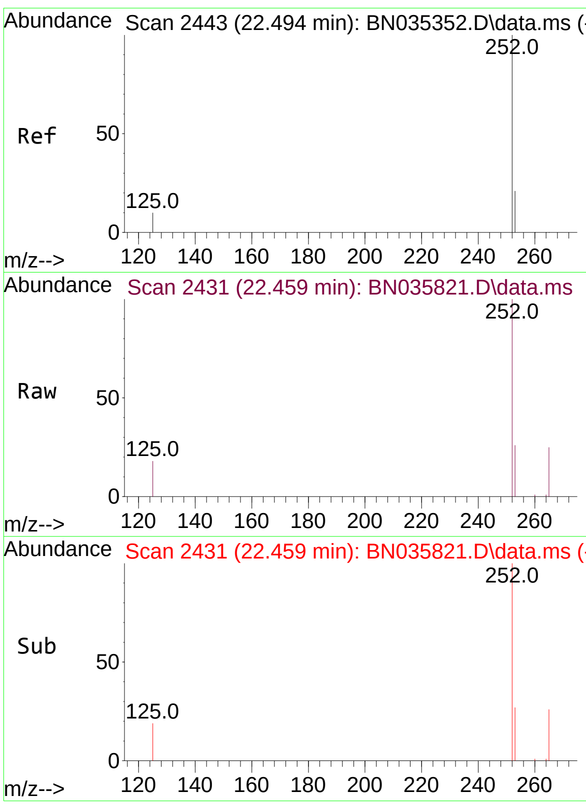
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

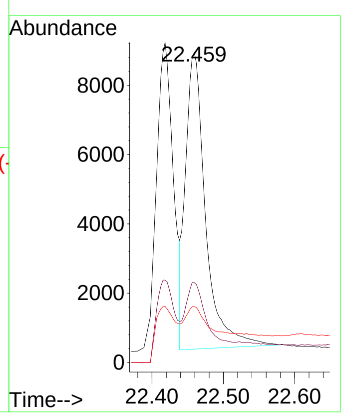



```
#37
Benzo(b)fluoranthene
Concen:    0.595 ng
RT:  22.418 min  Scan# 24
Delta R.T.   -0.012 min
Lab File:    BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:252 Resp:   2064
Ion  Ratio  Lower  Upper
252  100
253   25.8   19.6   29.4
125   17.6    9.6   14.4
```





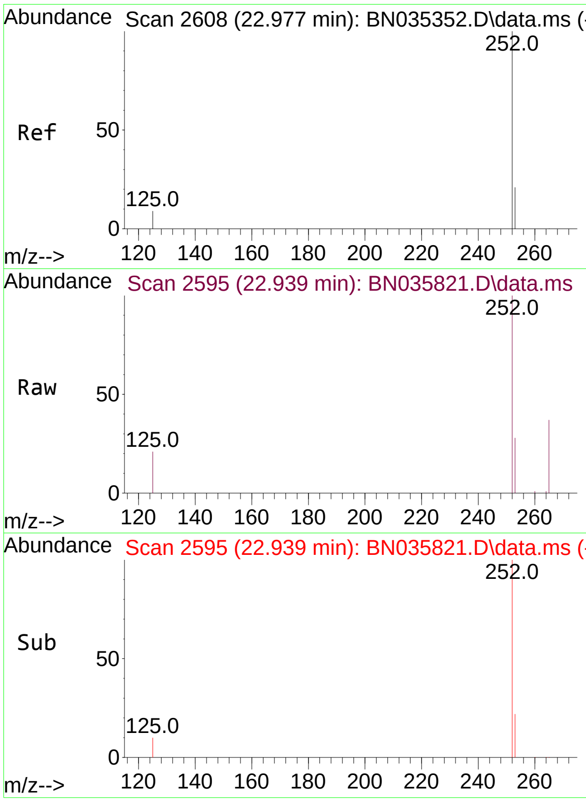

```
#38
Benzo(k)fluoranthene
Concen:    0.491 ng
RT:  22.459 min  Scan# 2431
Delta R.T.   -0.012 min
Lab File:    BN035821.D
Acq: 24 Dec 2024  14:55

Tgt Ion:252 Resp:   16743
Ion  Ratio  Lower  Upper
252  100
253   25.8   19.5   29.3
125   18.0   10.2   15.4#
```



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

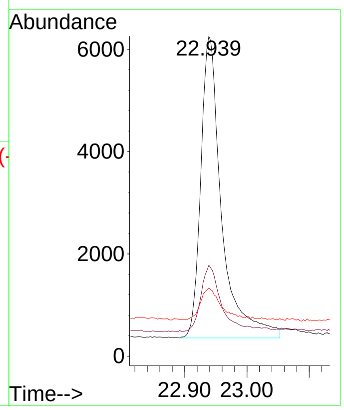
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

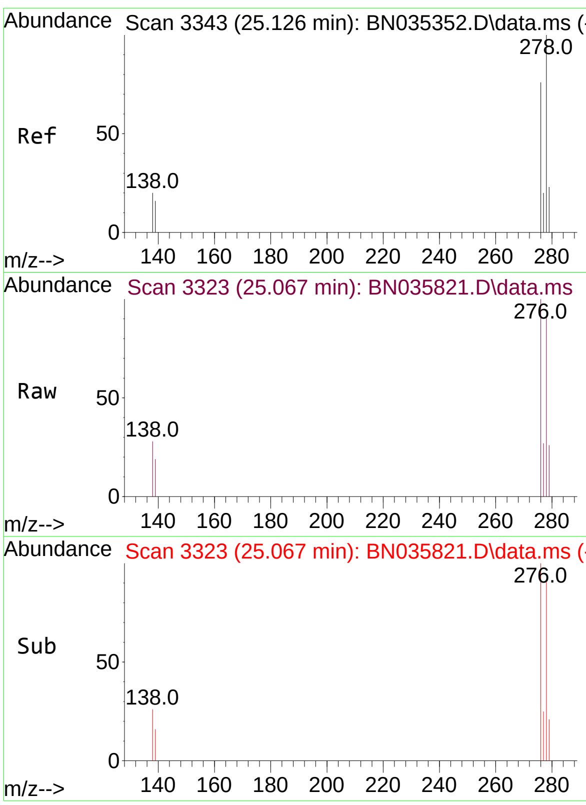


#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2!
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 1374!

Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	21.3	10.9	16.3!

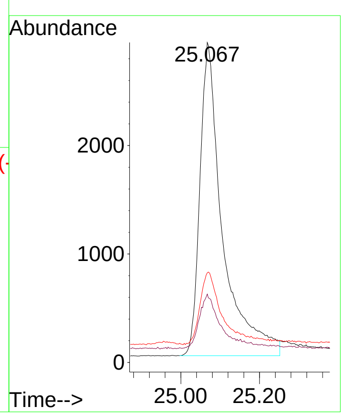


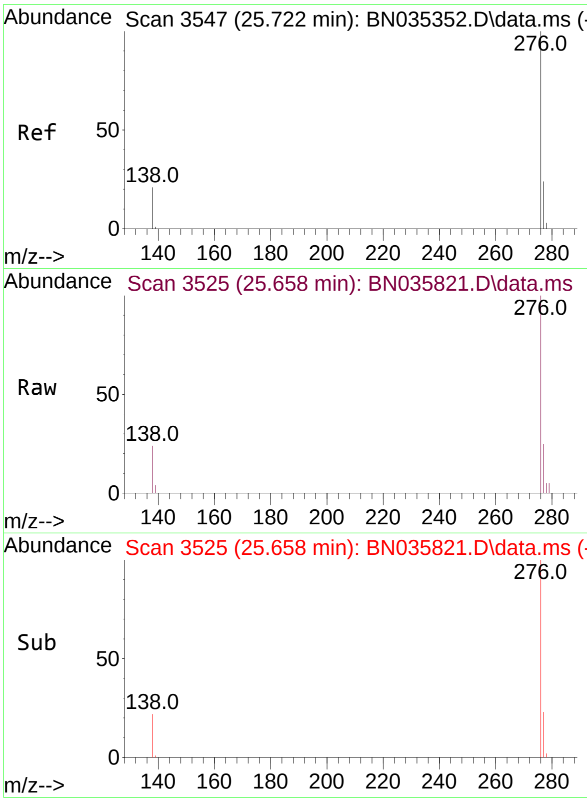


#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:278 Resp: 11568

Ion	Ratio	Lower	Upper
278	100		
139	21.3	14.2	21.4
279	28.0	20.5	30.7

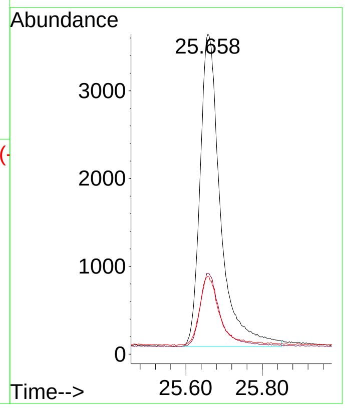




#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3!
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 1323!

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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:	12/18/24
Project:	CTO WE13			Date Received:	12/20/24
Client Sample ID:	RW10-MW01S-20241218MSD			SDG No.:	P5374
Lab Sample ID:	P5376-09MSD			Matrix:	Water
Analytical Method:	SW8270ESIM			% Solid:	0
Sample Wt/Vol:	980	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035822.D	1	12/23/24 13:29	12/24/24 15:31	PB165828

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3190	7.257				
1146-65-2	Naphthalene-d8	7950	9.998				
15067-26-2	Acenaphthene-d10	4890	13.914				
1517-22-2	Phenanthrene-d10	10100	16.686				
1719-03-5	Chrysene-d12	9500	20.938				
1520-96-3	Perylene-d12	9990	23.02				

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: **BN035822.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3187	0.400	ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400	ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	967	0.121	ng	0.00
5) Phenol-d6	6.477	99	640	0.067	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2023m	0.416	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371	ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431	ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306	ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148	ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304	ng	95
9) Naphthalene	10.052	128	8332	0.397	ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320	ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371	ng	99
16) Acenaphthylene	13.625	152	8940	0.436	ng	100
17) Acenaphthene	13.978	154	5758	0.423	ng	99
18) Fluorene	14.983	166	7782	0.399	ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344	ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365	ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431	ng	95
23) Atrazine	16.189	200	1738	0.415	ng	96
24) Pentachlorophenol	16.351	266	2251	0.748	ng	87
25) Phenanthrene	16.735	178	13447	0.486	ng	99
26) Anthracene	16.822	178	11668	0.466	ng	98
28) Fluoranthene	18.775	202	16762	0.450	ng	99
30) Pyrene	19.142	202	17829	0.508	ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474	ng	100
33) Chrysene	20.974	228	16946	0.494	ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524	ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425	ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608	ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503	ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486	ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399	ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423	ng	98

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

Quantitation Report (QT Reviewed)

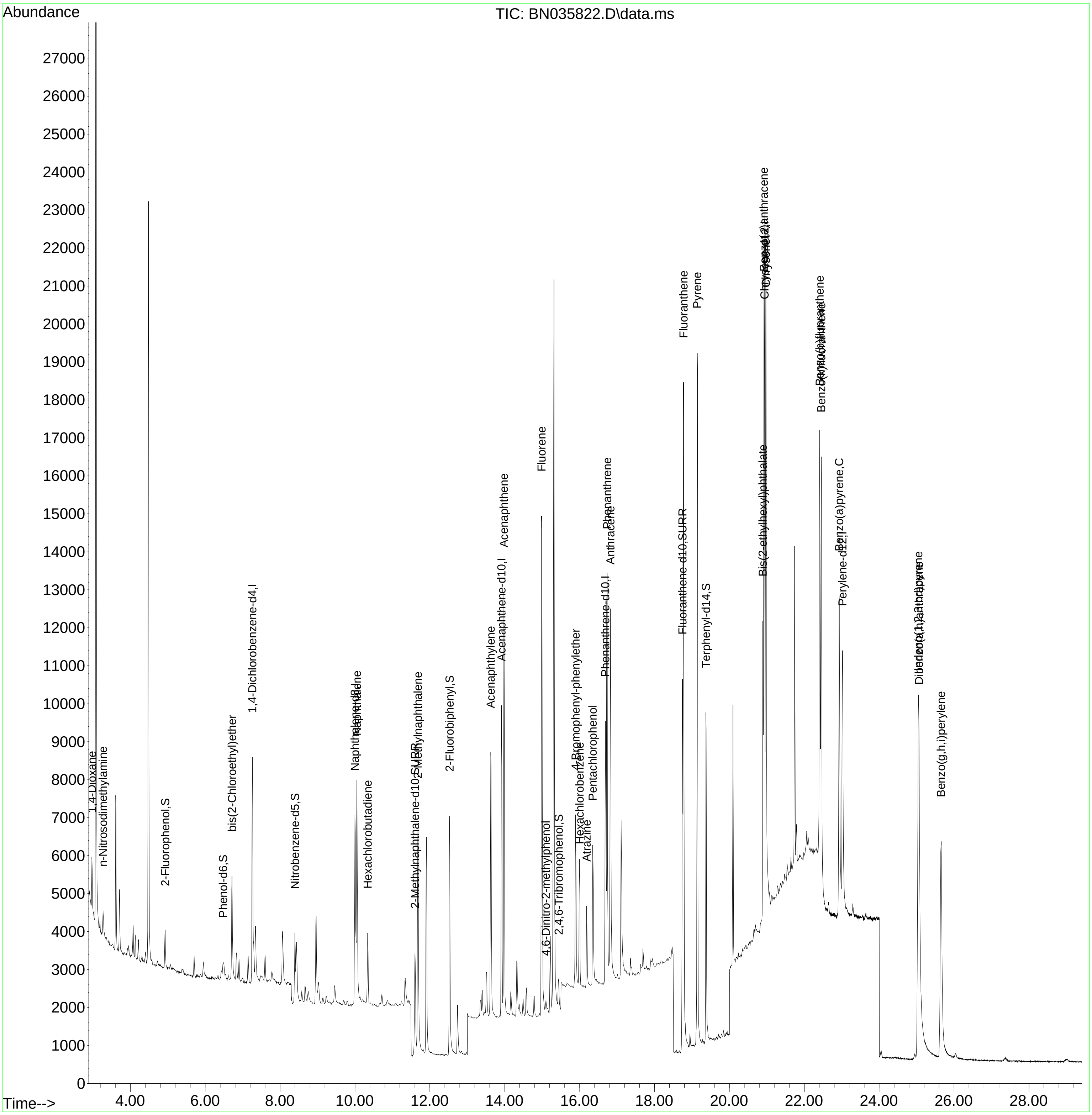
Sample Results: **BN035822.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

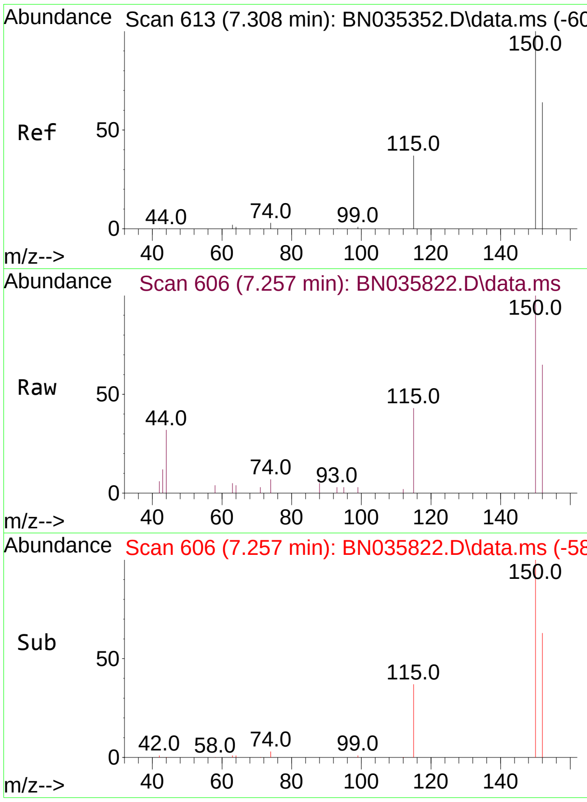
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
APPROVED

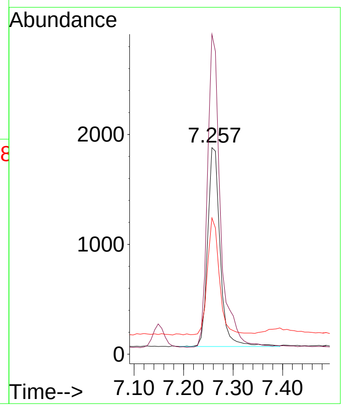
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

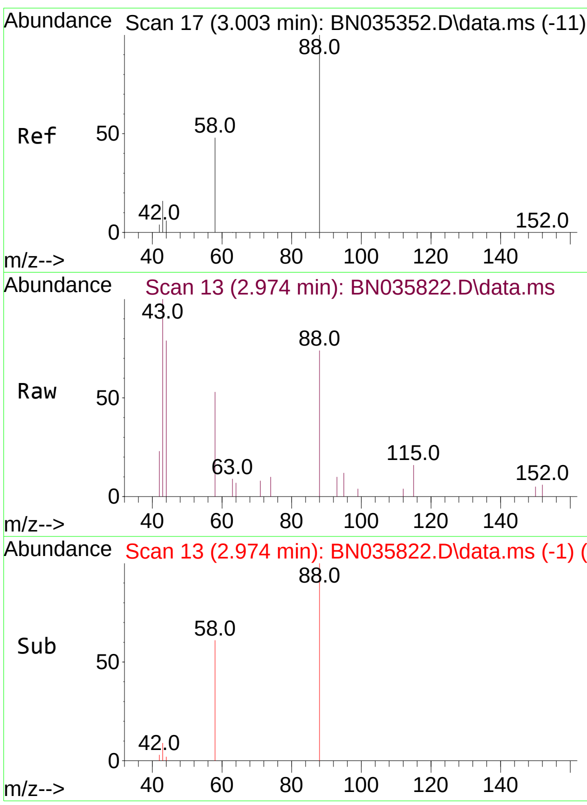


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 318

Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.0	186.0
115	66.0	49.6	74.4

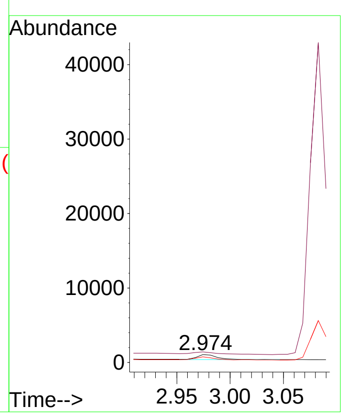


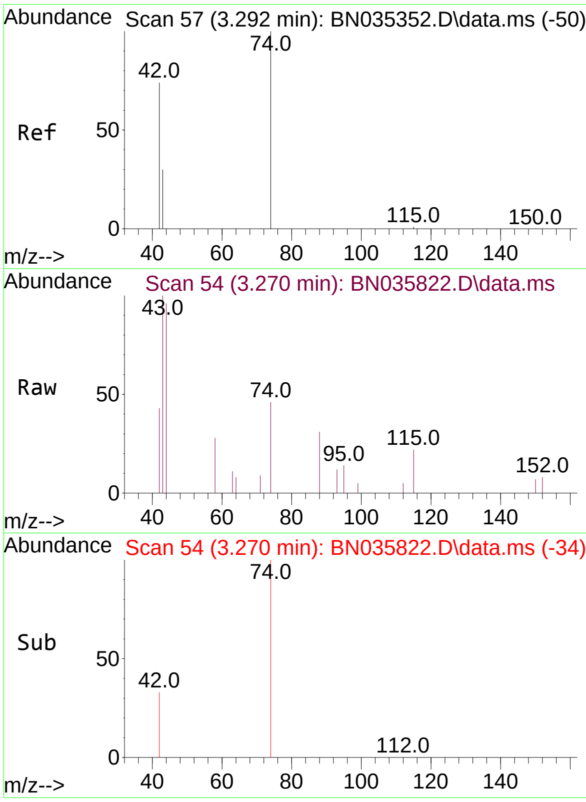


#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	67.9	44.5	66.7#





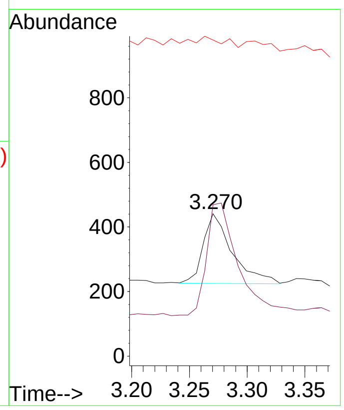
#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

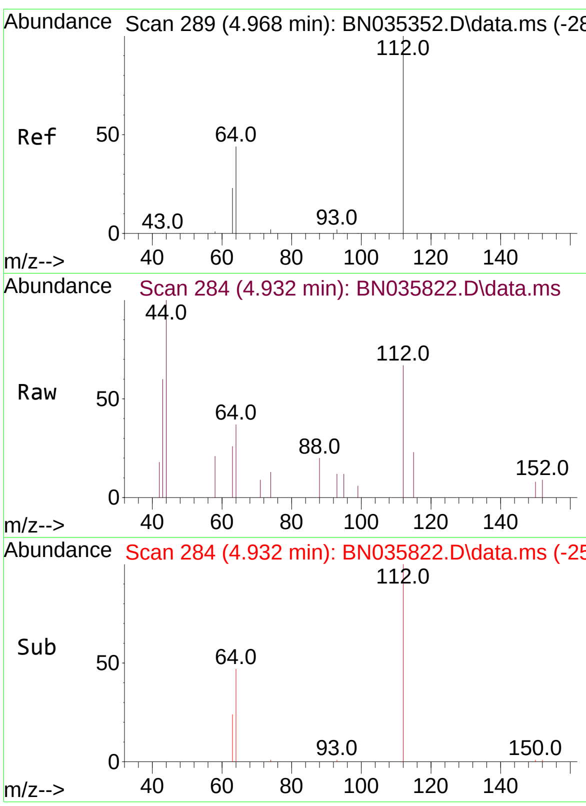
Tgt Ion: 42 Resp: 37

Ion	Ratio	Lower	Upper
42	100		
74	180.6	124.9	187.3
44	0.0	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

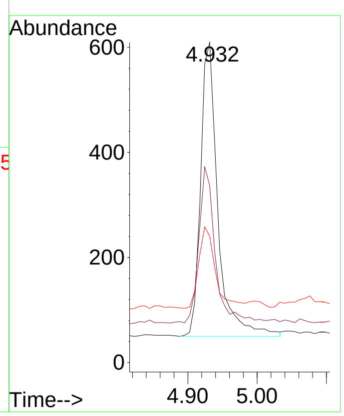


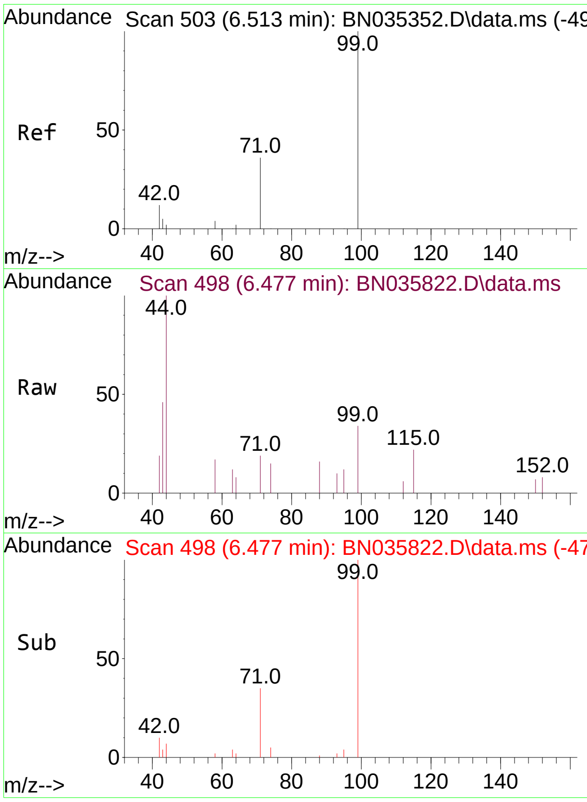


#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	27.0	21.0	31.6

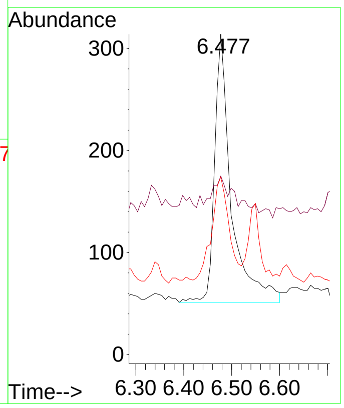




#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 49
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 99 Resp: 640

Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.2
71	42.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
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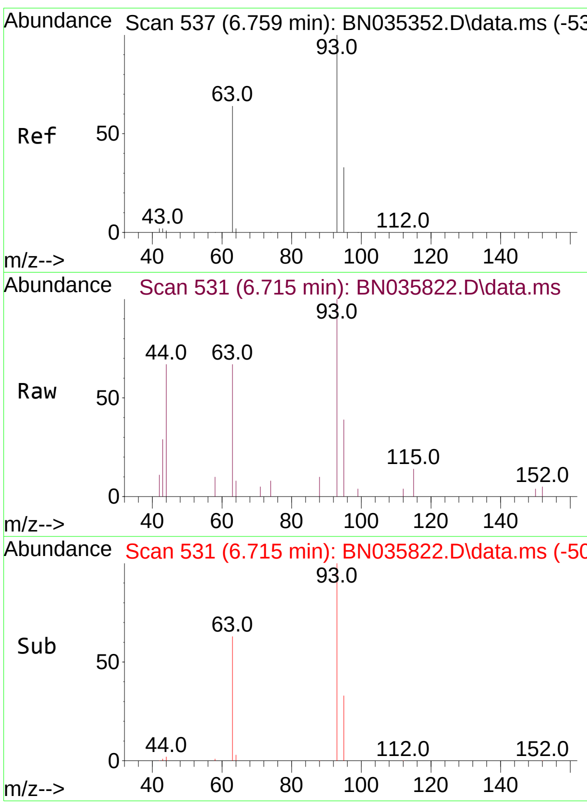
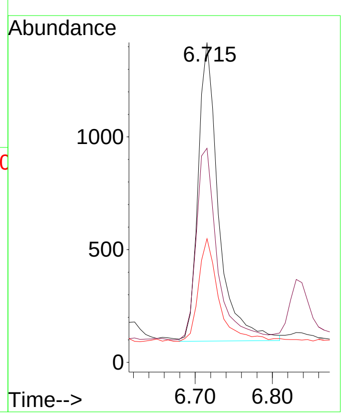
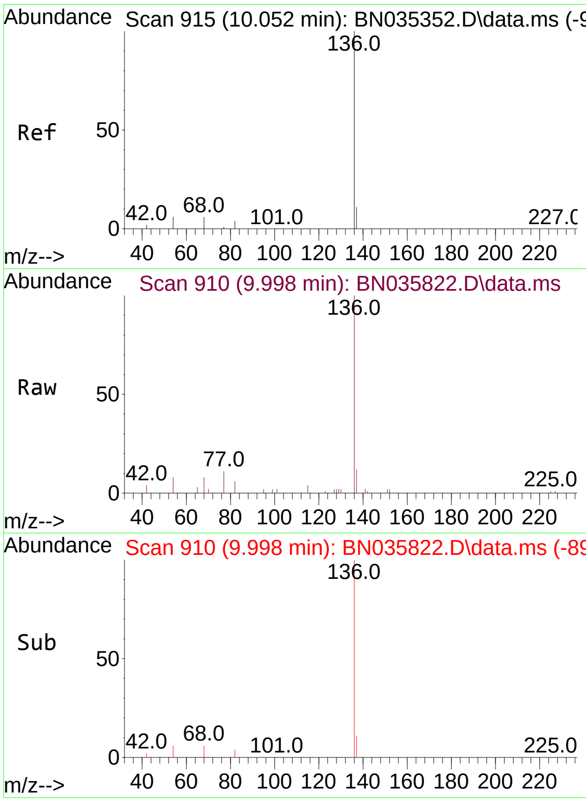


#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

Ion	Ratio	Lower	Upper
93	100		
63	66.0	50.4	75.6
95	35.5	25.7	38.5






```
#7
Naphthalene-d8
Concen:    0.400 ng
RT:   9.998 min  Scan# 9
Delta R.T.  -0.022 min
Lab File:   BN035822.D
Acq: 24 Dec 2024  15:31

Tgt Ion:136 Resp:    795
Ion  Ratio  Lower  Upper
136  100
137   12.2   10.2   15.2
 54    7.6    6.1    9.1
 68    8.0    6.4    9.6
```

Instrument :
BNA_N
ClientSampleId :
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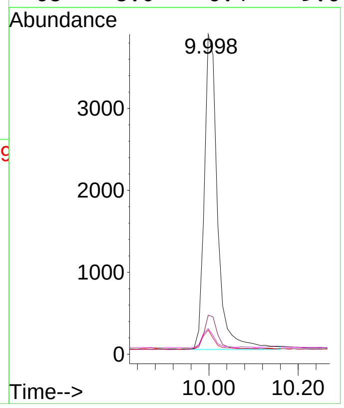
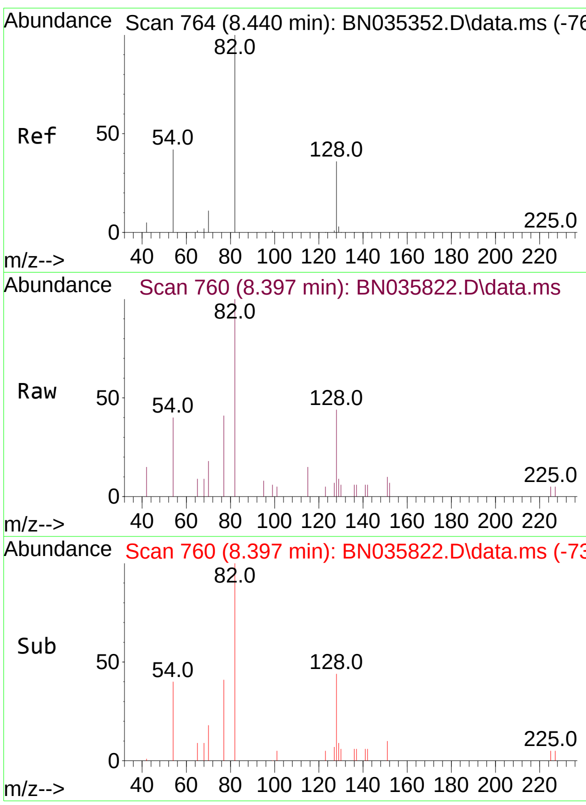
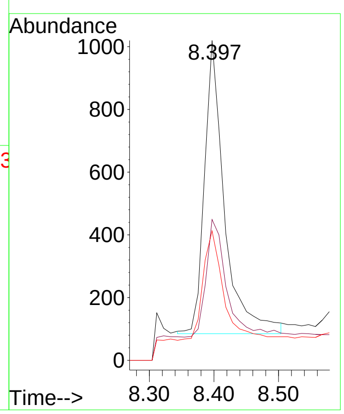





```
#8
Nitrobenzene-d5
Concen:    0.416 ng m
RT:   8.397 min  Scan# 760
Delta R.T.  -0.011 min
Lab File:   BN035822.D
Acq: 24 Dec 2024  15:31

Tgt Ion: 82 Resp:    2023
Ion  Ratio  Lower  Upper
 82  100
128   44.0   33.4   50.0
 54   40.5   36.7   55.1
```



Instrument :
BNA_N
ClientSampleId :
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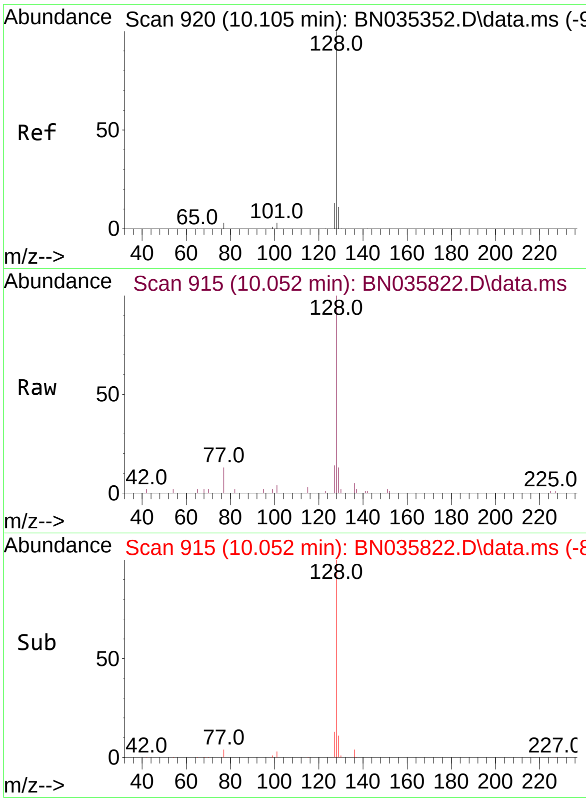
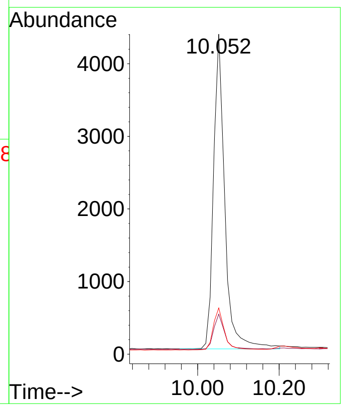
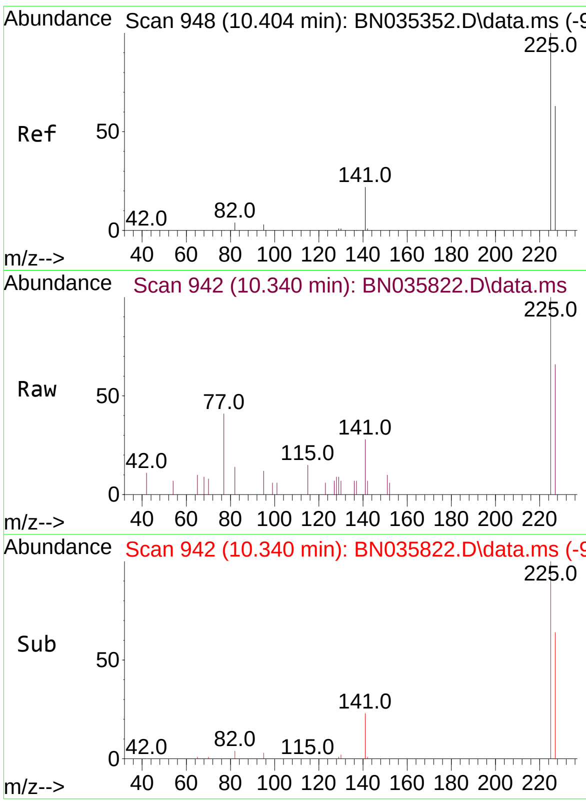


#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:128 Resp: 833

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.4	11.4	17.2

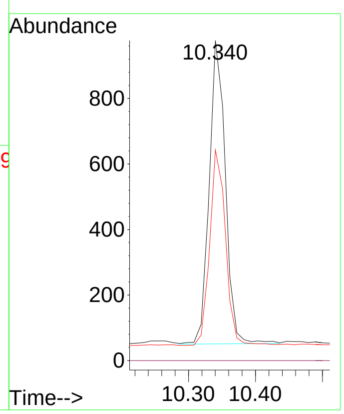




#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



Instrument :
BNA_N
ClientSampleId :
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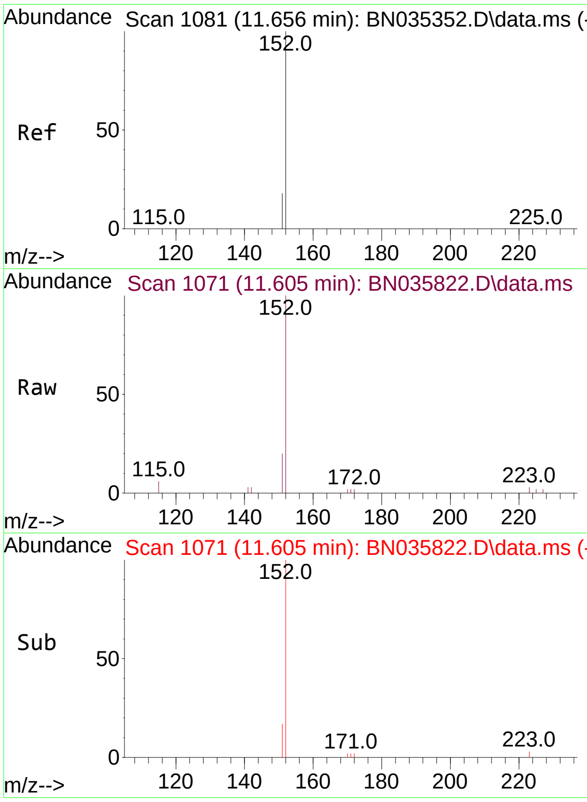
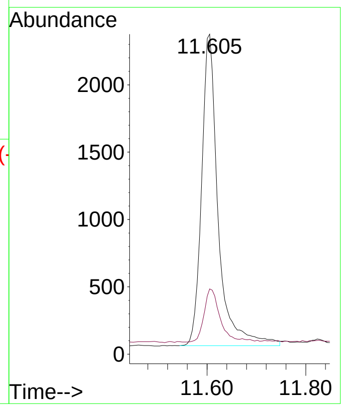
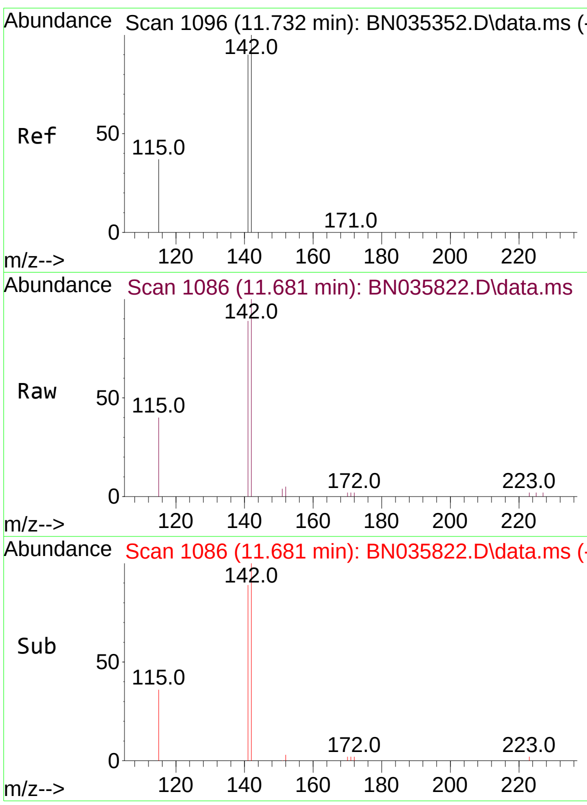


#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 538

Ion	Ratio	Lower	Upper
152	100		
151	16.6	16.6	25.0#

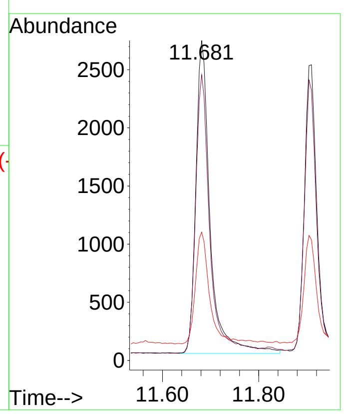


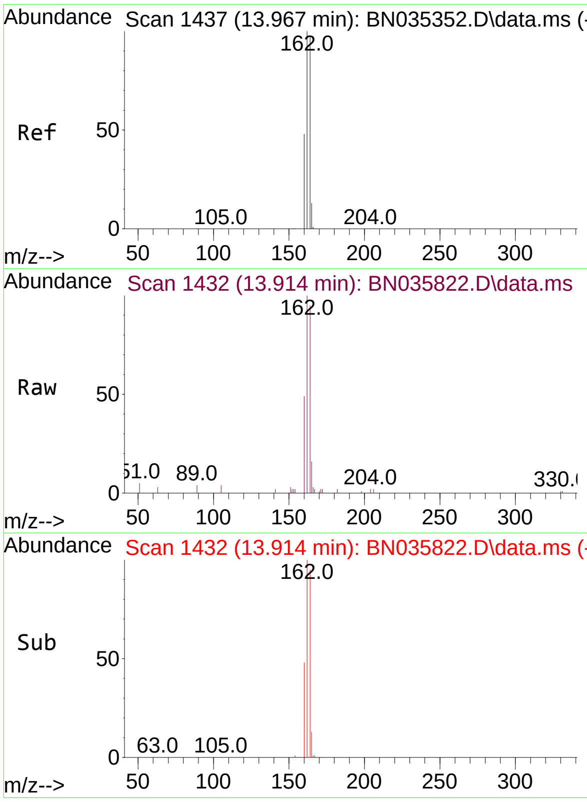


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.1	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:164 Resp: 488

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	51.5	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
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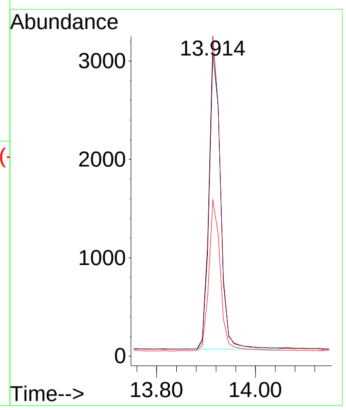
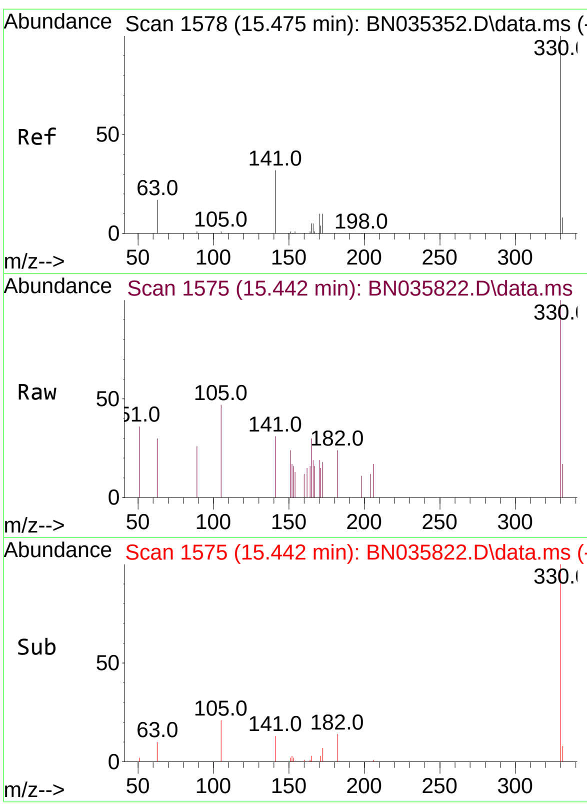
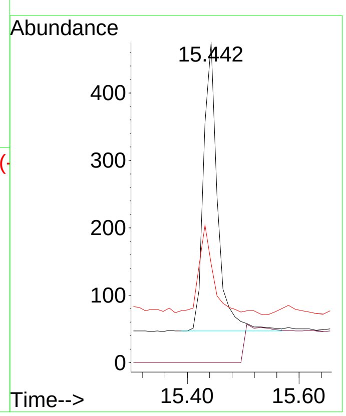




#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.5	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
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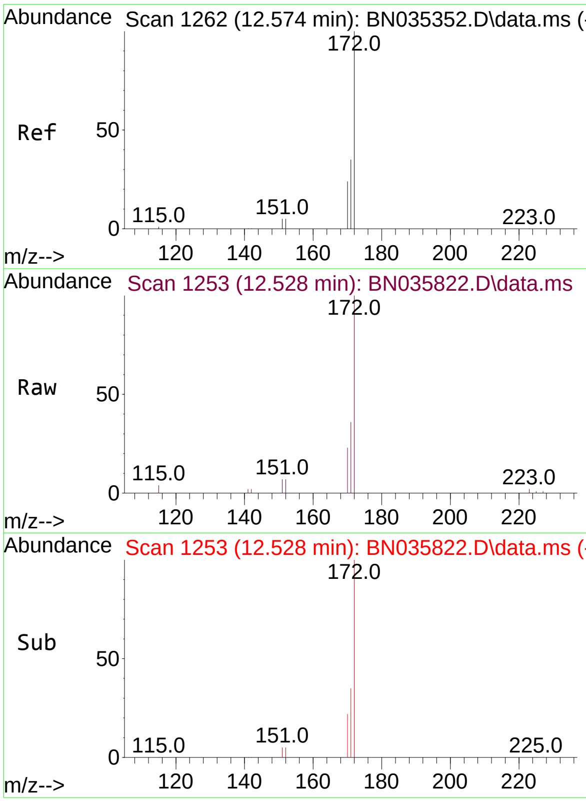
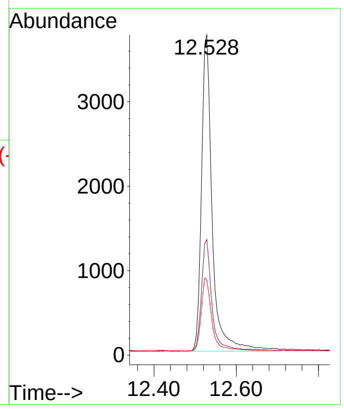
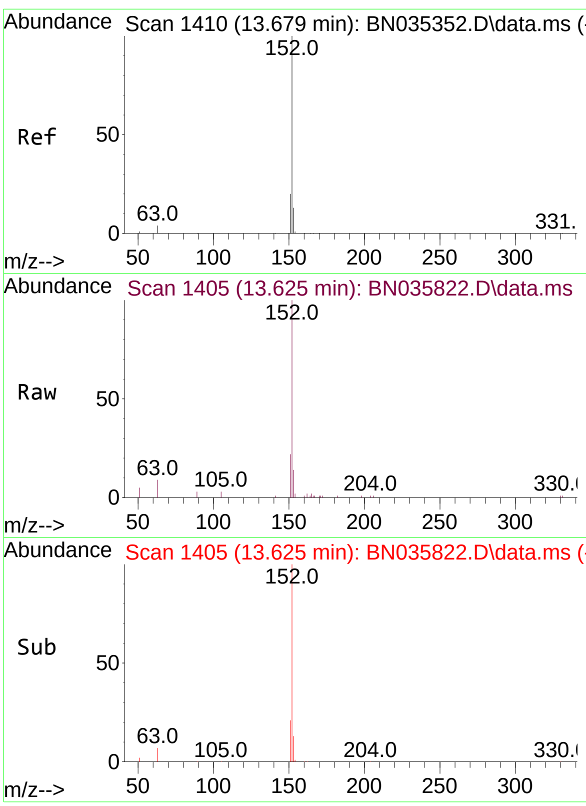


#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:172 Resp: 685

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.5	19.8	29.8

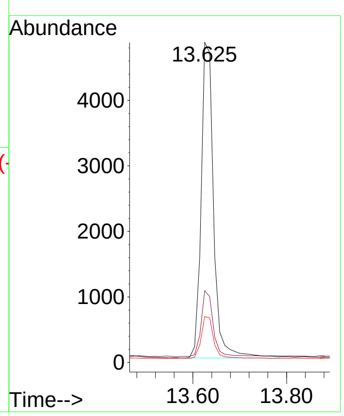




#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.4	10.4	15.6



Instrument :
BNA_N
ClientSampleId :
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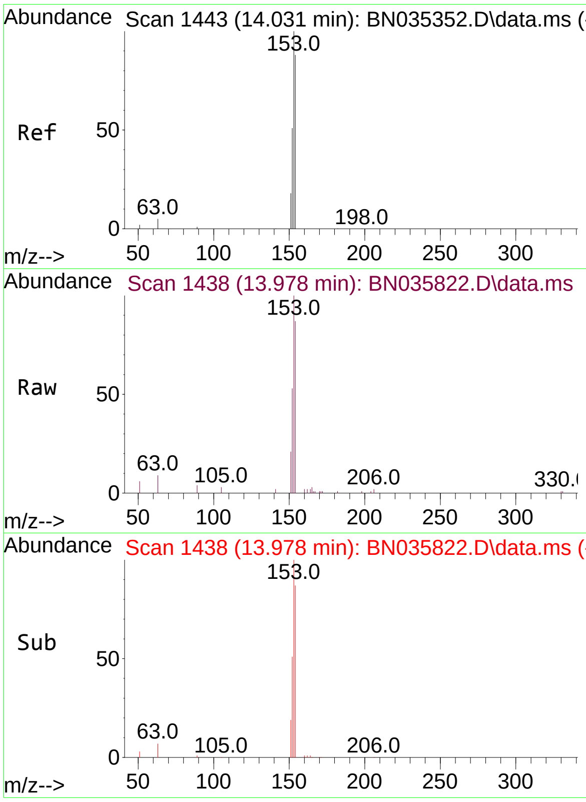
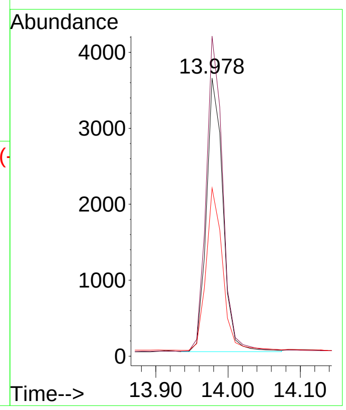
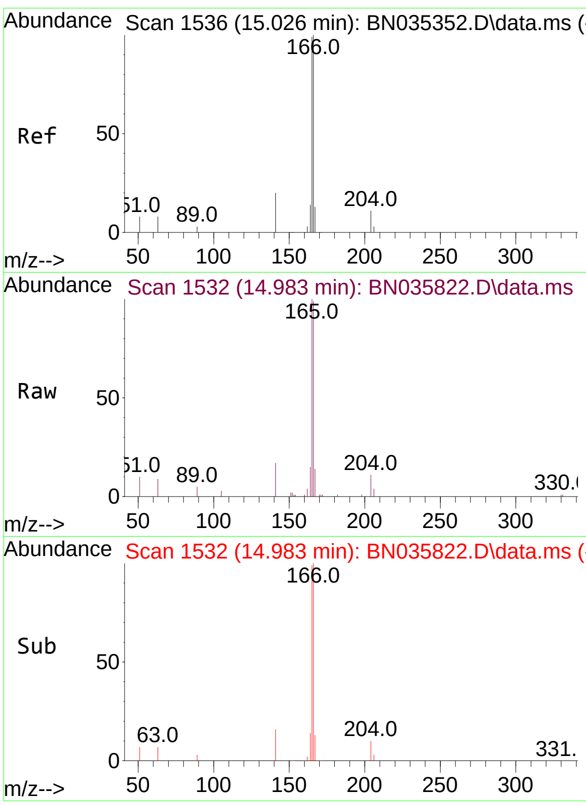


#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:154 Resp: 575

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	58.9	49.0	73.6

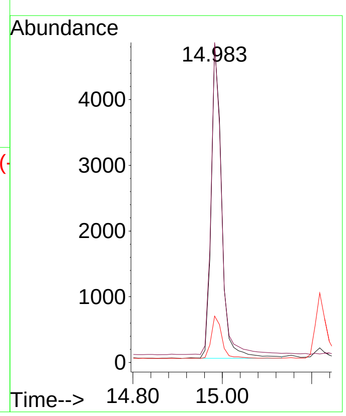


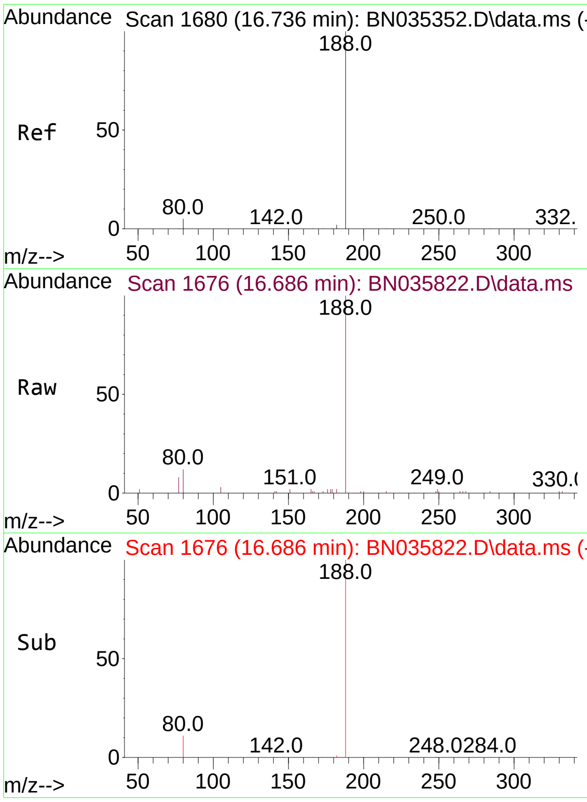


#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.9	10.8	16.2





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T.   -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:188 Resp: 1006(

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

Instrument :
BNA_N
ClientSampleId :
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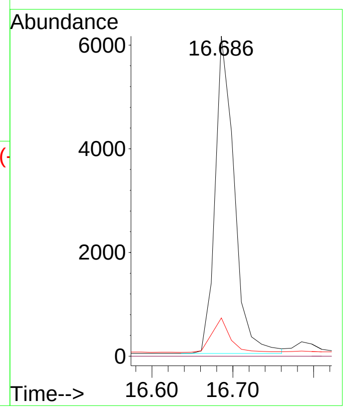
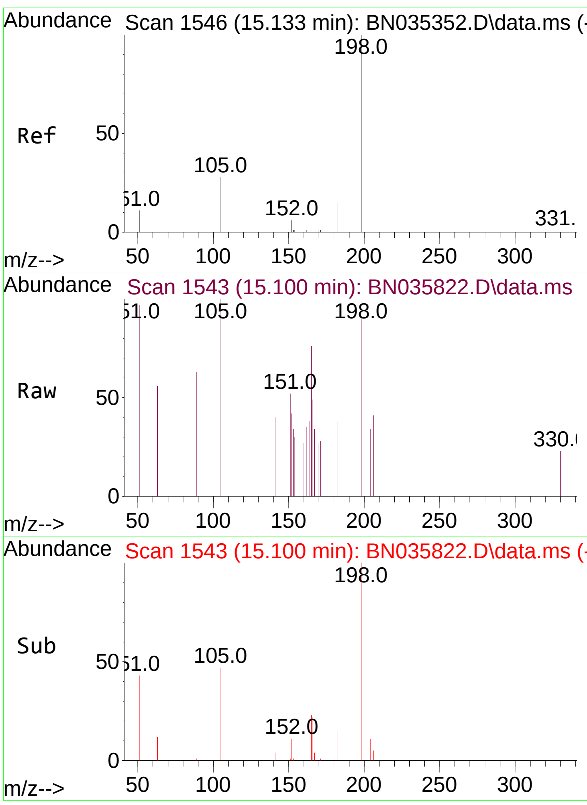
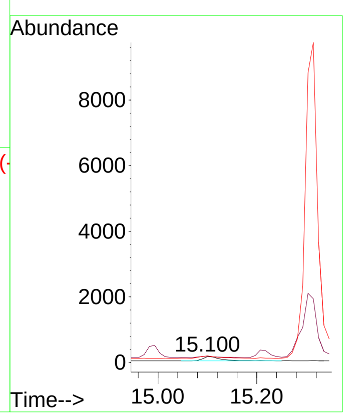




#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min Scan# 1543
Delta R.T.   -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:198 Resp: 341

Ion	Ratio	Lower	Upper
198	100		
51	106.6	46.5	69.7#
105	109.9	45.3	67.9#



Instrument :
BNA_N
ClientSampleId :
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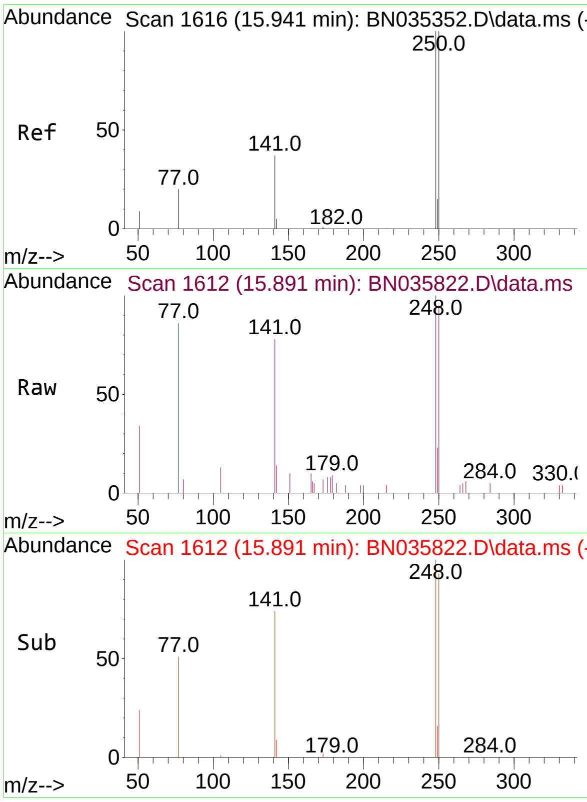
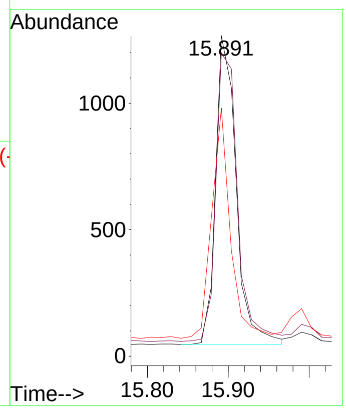
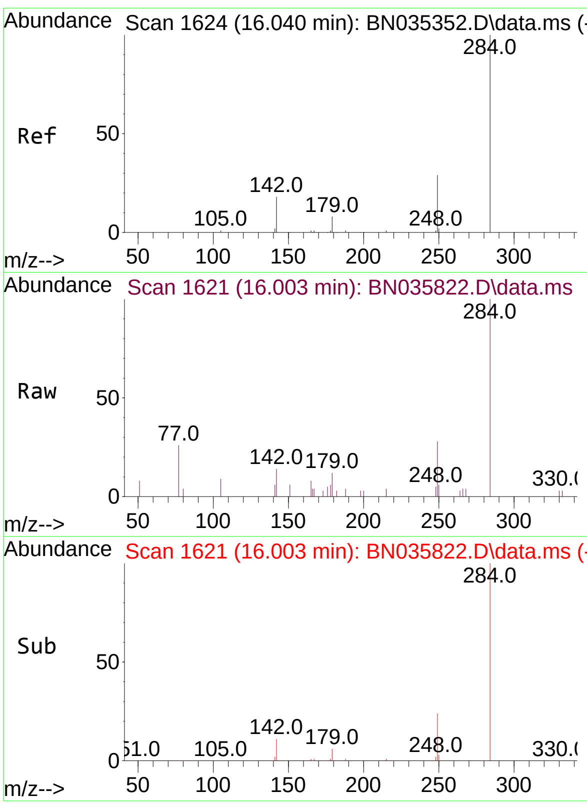


#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1(
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:248 Resp: 214

Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.6	120.8
141	77.5	31.5	47.3#

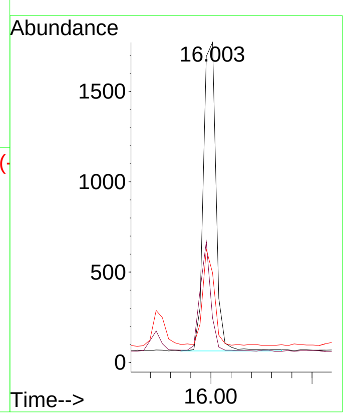


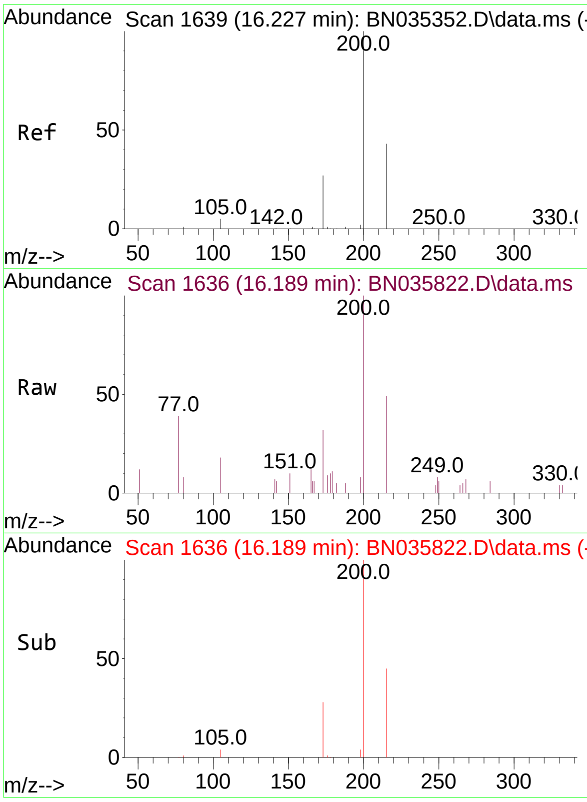


#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

Ion	Ratio	Lower	Upper
284	100		
142	30.0	26.7	40.1
249	28.6	24.6	36.8





#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:200 Resp: 173

Ion	Ratio	Lower	Upper
200	100		
173	31.9	24.1	36.1
215	48.9	36.9	55.3

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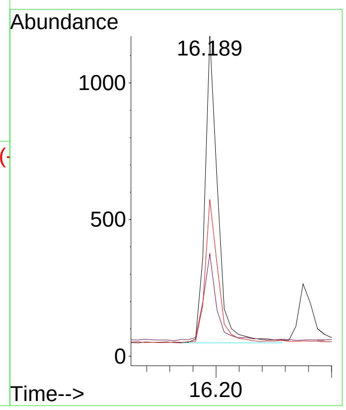
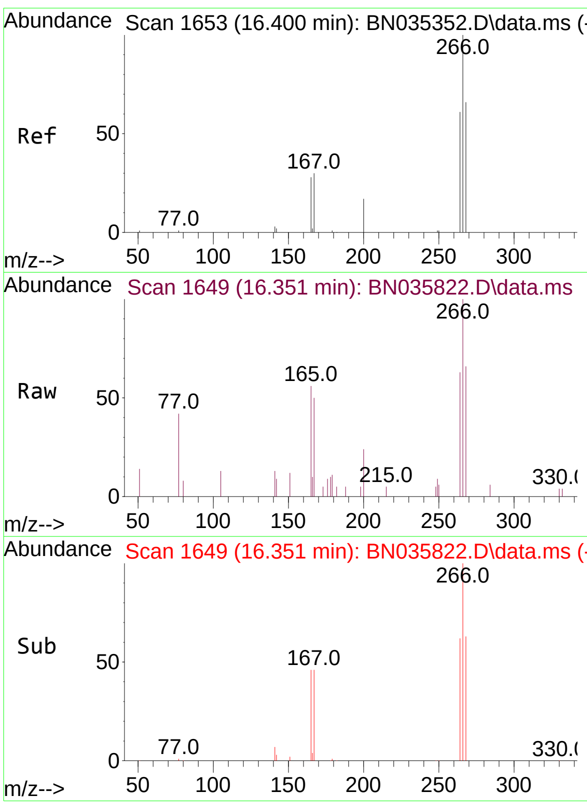
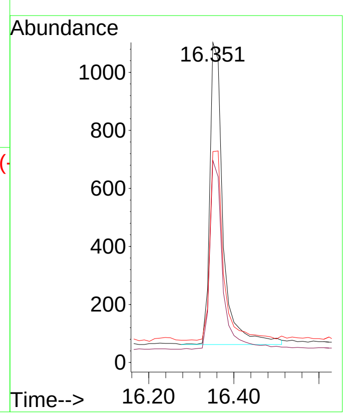




#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

Ion	Ratio	Lower	Upper
266	100		
264	61.1	42.3	63.5
268	64.2	43.3	64.9



Instrument :
BNA_N
ClientSampleId :
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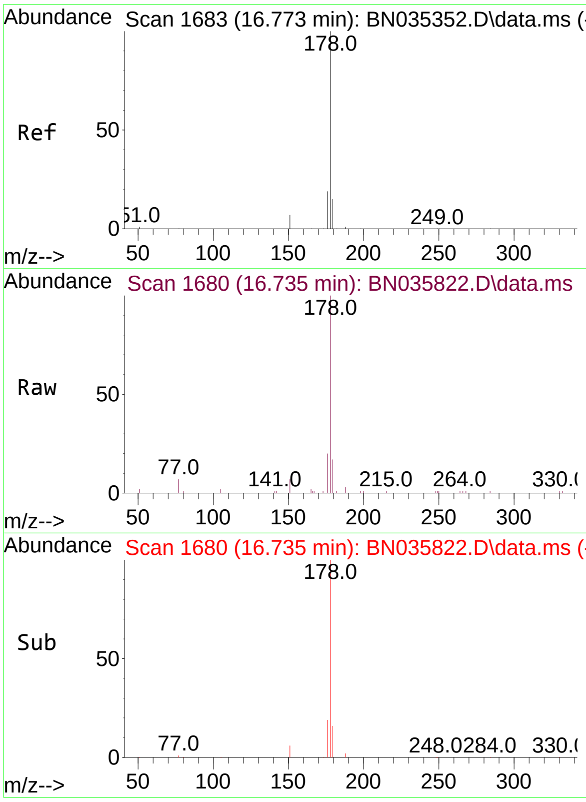
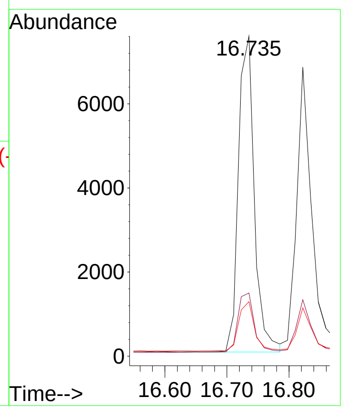
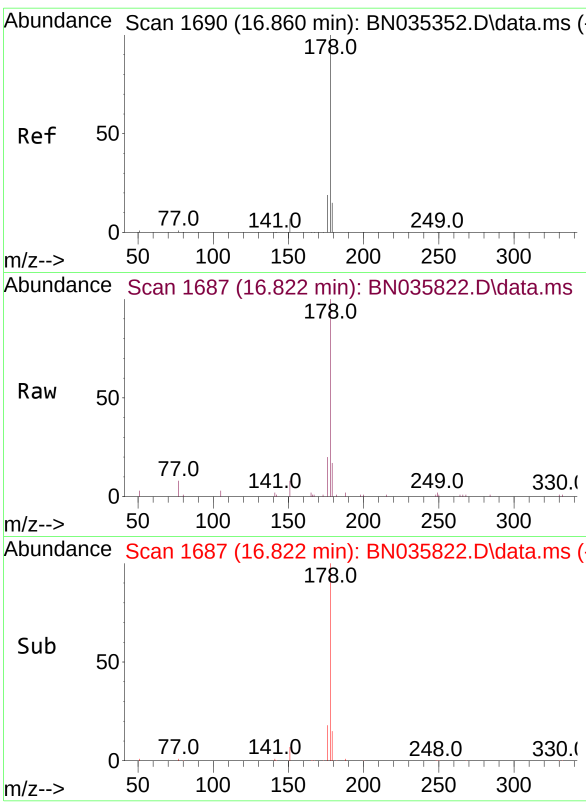


#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 1344

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.6	12.3	18.5

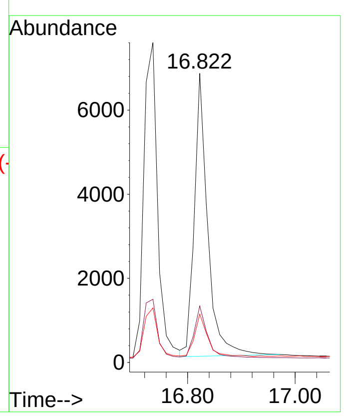


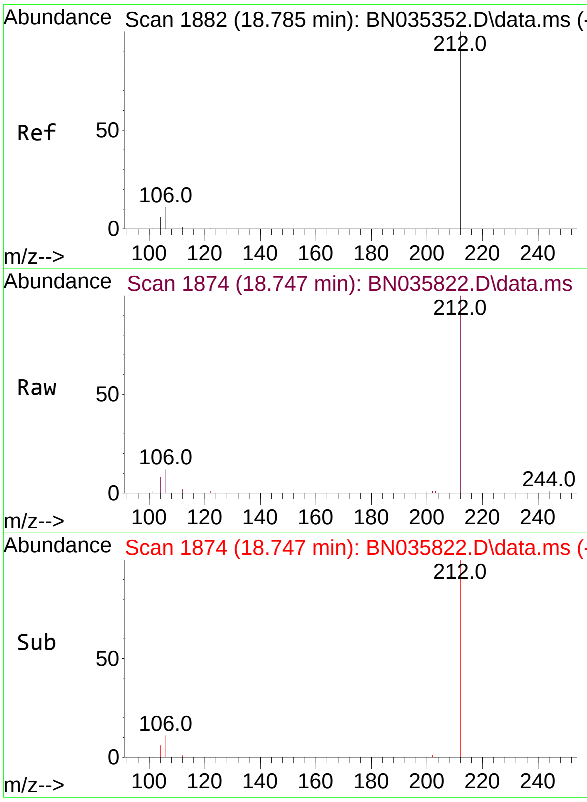


#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	14.9	12.6	18.8

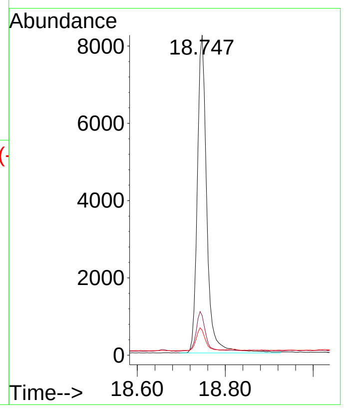




#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:212 Resp: 1229

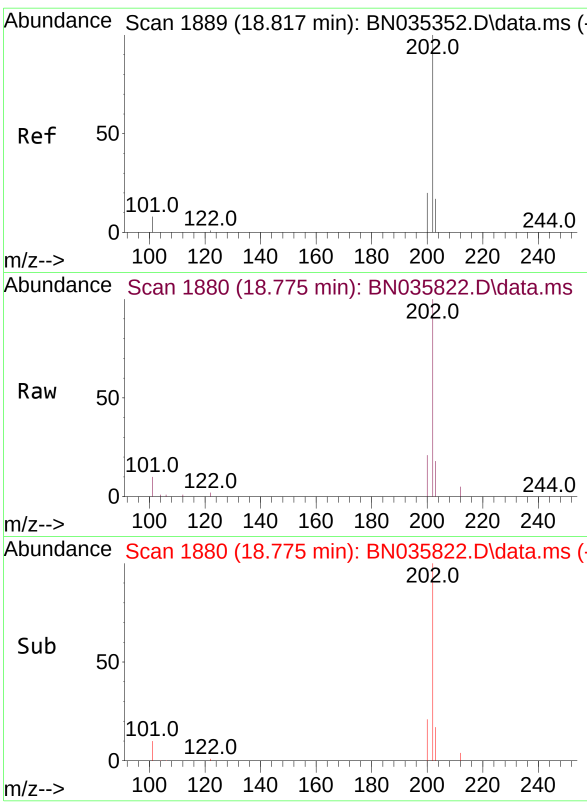
Ion	Ratio	Lower	Upper
212	100		
106	12.4	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED

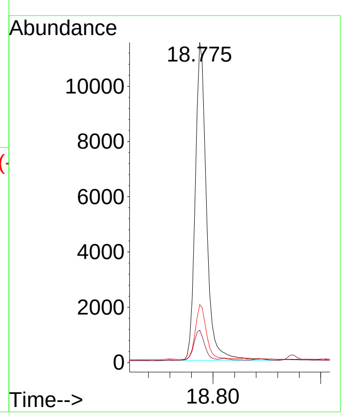
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

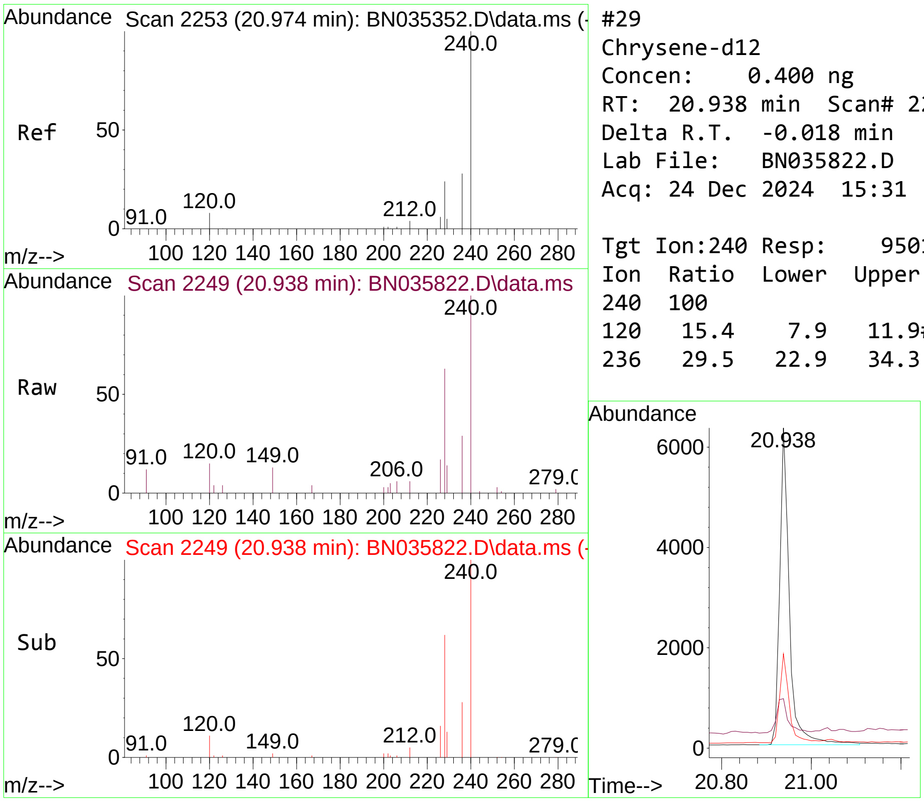


#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:240 Resp: 950

Ion	Ratio	Lower	Upper
240	100		
120	15.4	7.9	11.9
236	29.5	22.9	34.3

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
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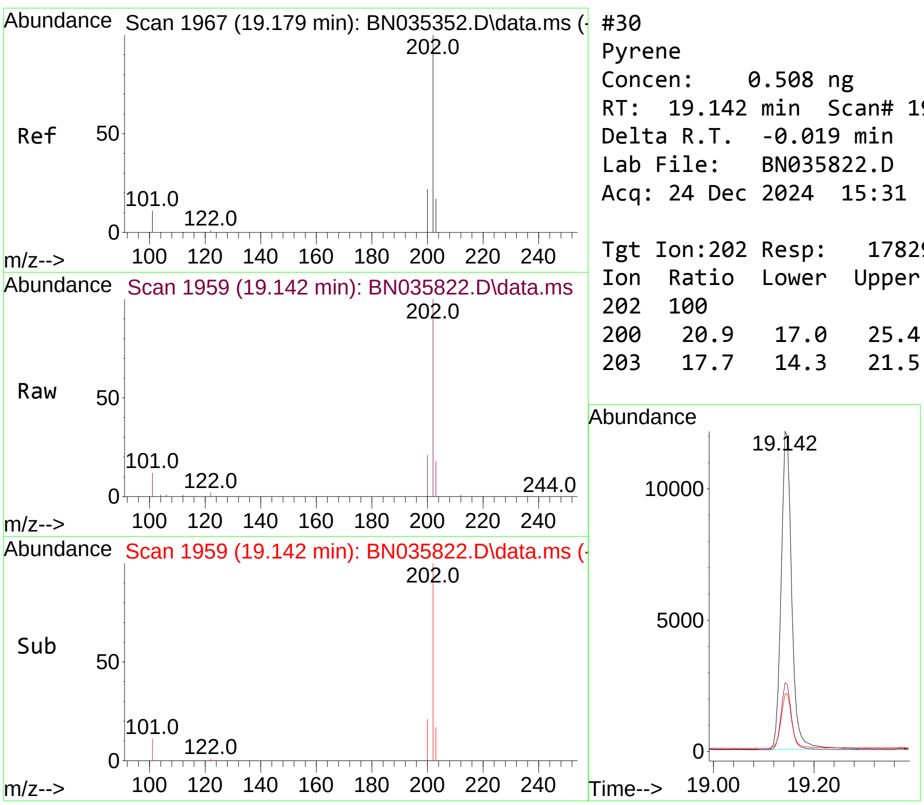
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

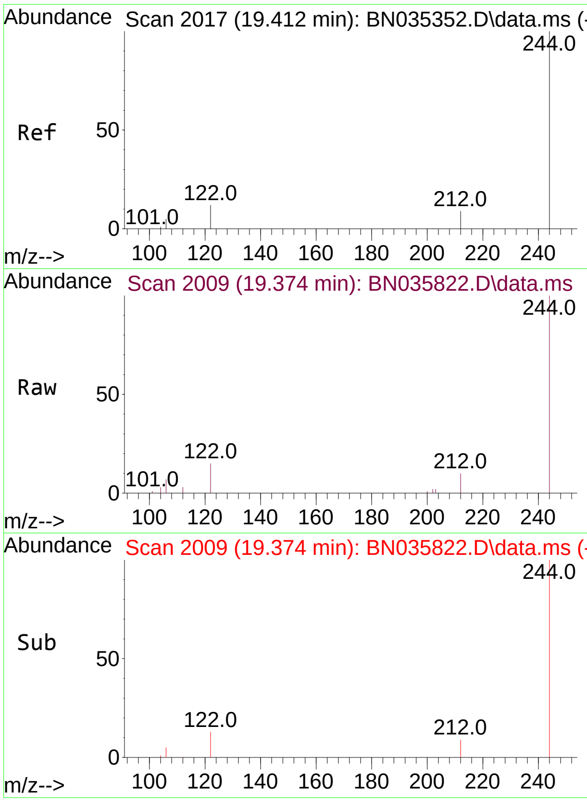
Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5

Sample Results: **BN035822.D**

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED

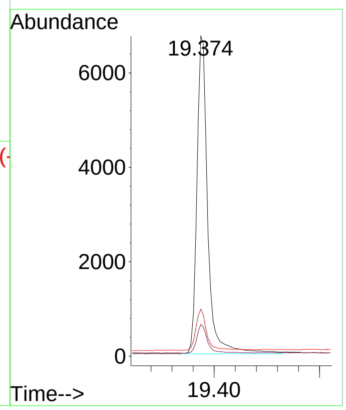
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

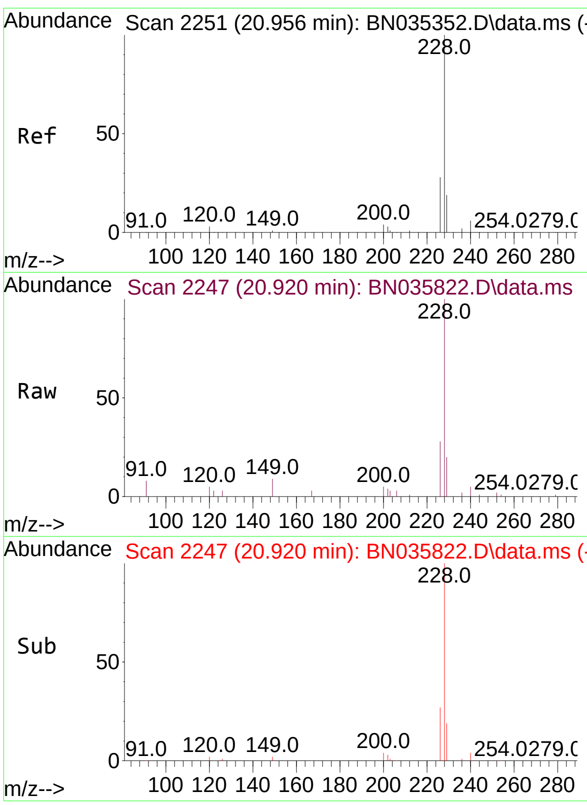


#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 20
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:244 Resp: 961

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.7	10.3	15.5

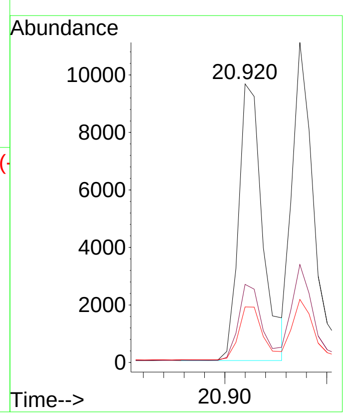


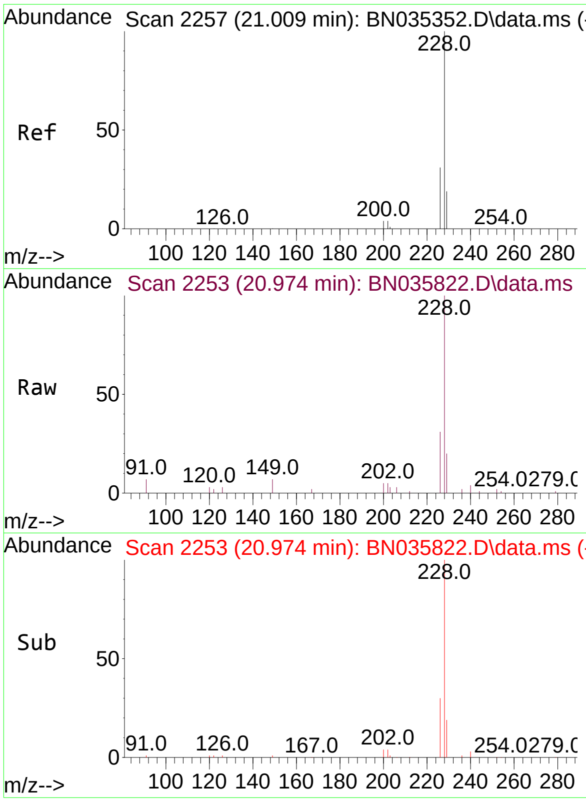


#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8

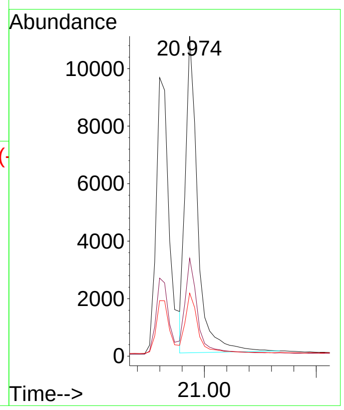




#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 1694

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

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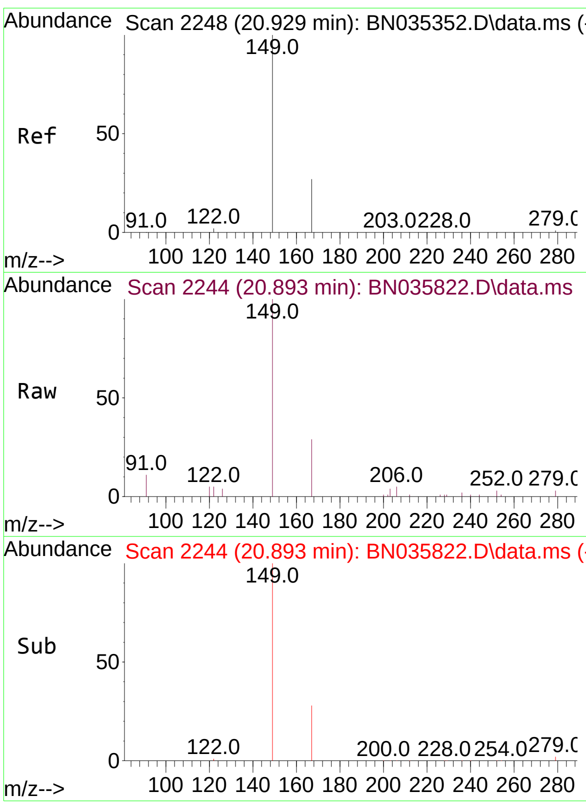
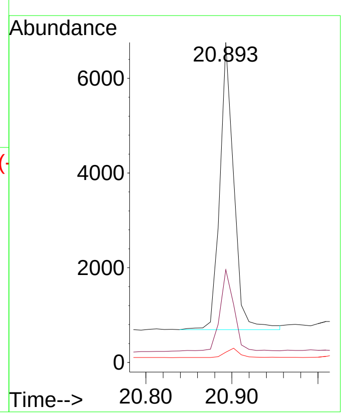
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

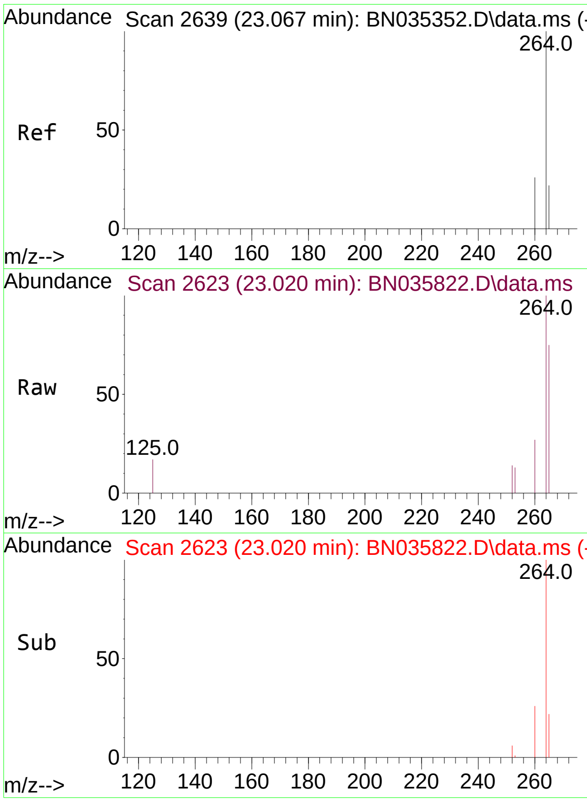
Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.2	2.7	4.1



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations APPROVED

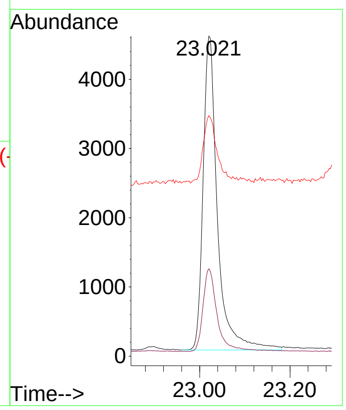
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

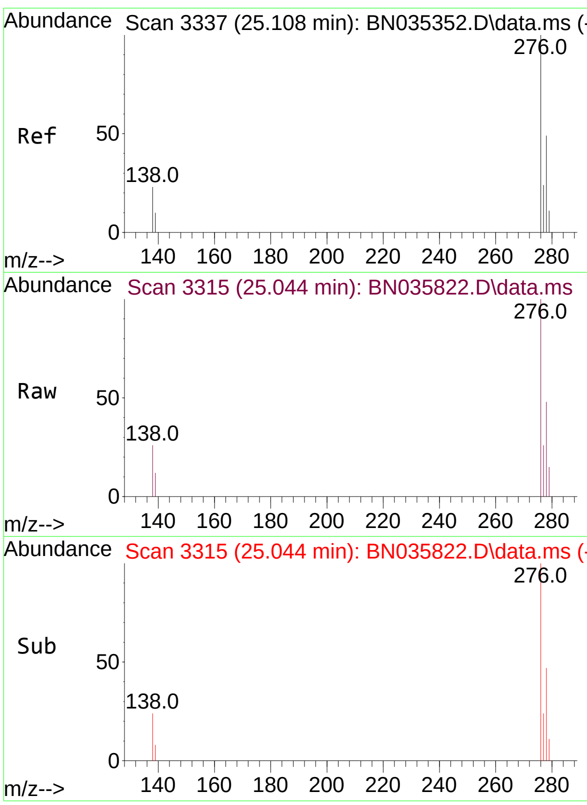


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:264 Resp: 999

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	75.1	40.2	60.4

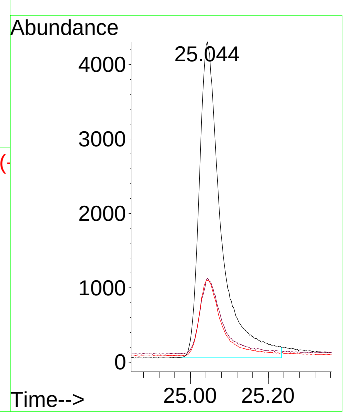




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	23.8	19.8	29.6



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

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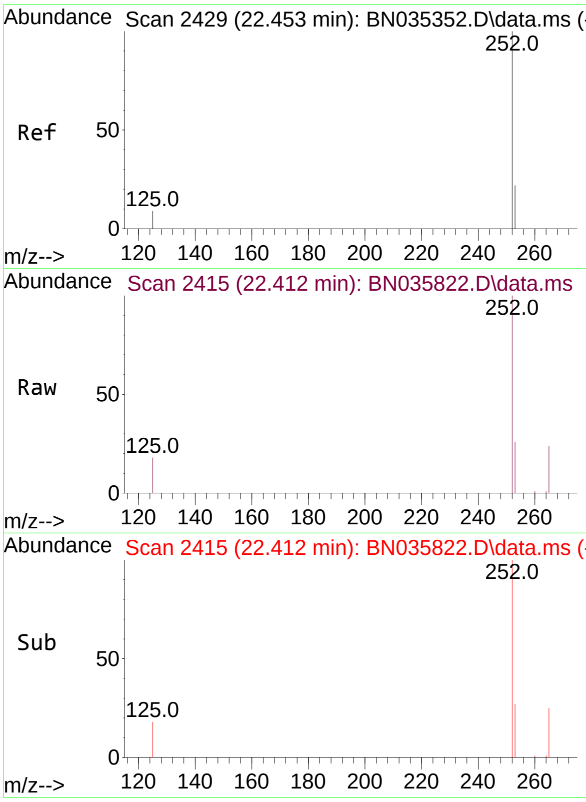
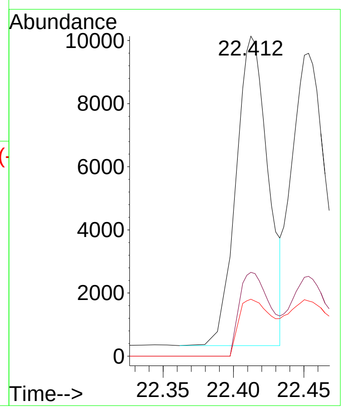
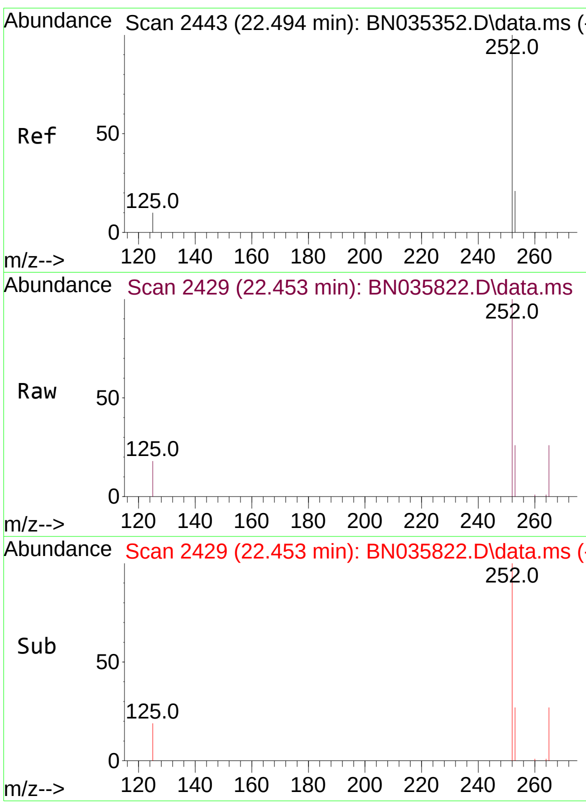
Supervised By :mohammad ahmed 12/26/2024

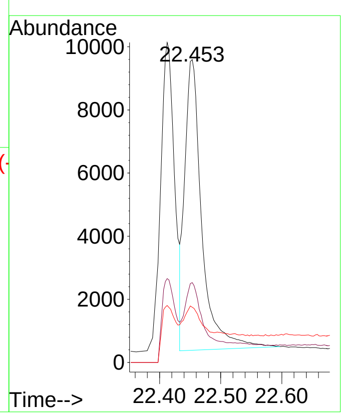



```
#37
Benzo(b)fluoranthene
Concen:    0.608 ng
RT:  22.412 min  Scan# 24
Delta R.T.   -0.018 min
Lab File:    BN035822.D
Acq: 24 Dec 2024  15:31

Tgt Ion:252 Resp:   2222
Ion  Ratio  Lower  Upper
252  100
253   26.2   19.6   29.4
125   17.8    9.6   14.4#
```






```
#38
Benzo(k)fluoranthene
Concen:    0.503 ng
RT:  22.453 min  Scan# 2429
Delta R.T.   -0.018 min
Lab File:    BN035822.D
Acq: 24 Dec 2024  15:31

Tgt Ion:252 Resp:   18080
Ion  Ratio  Lower  Upper
252  100
253   26.3   19.5   29.3
125   18.2   10.2   15.4#
```



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

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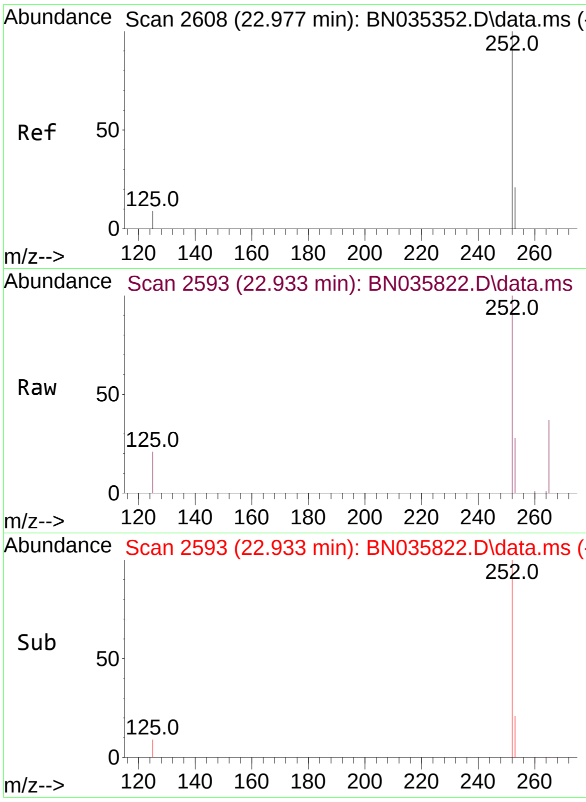
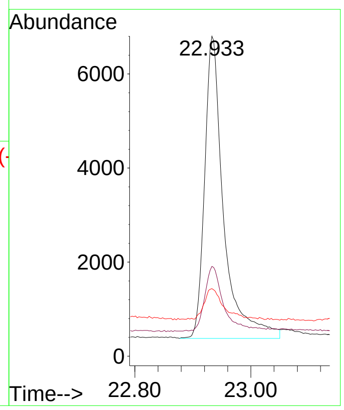
Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

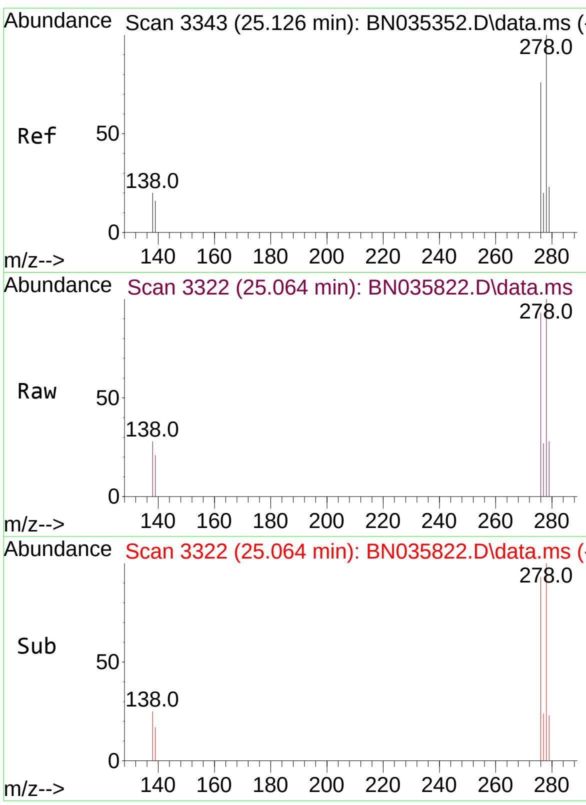


#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 1463

Ion	Ratio	Lower	Upper
252	100		
253	28.1	20.2	30.4
125	21.1	10.9	16.3

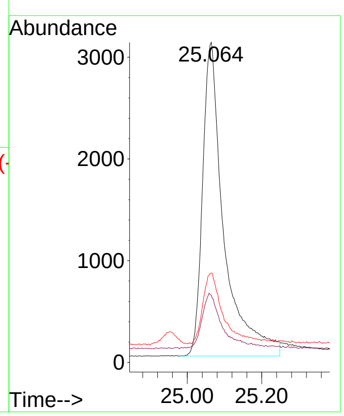


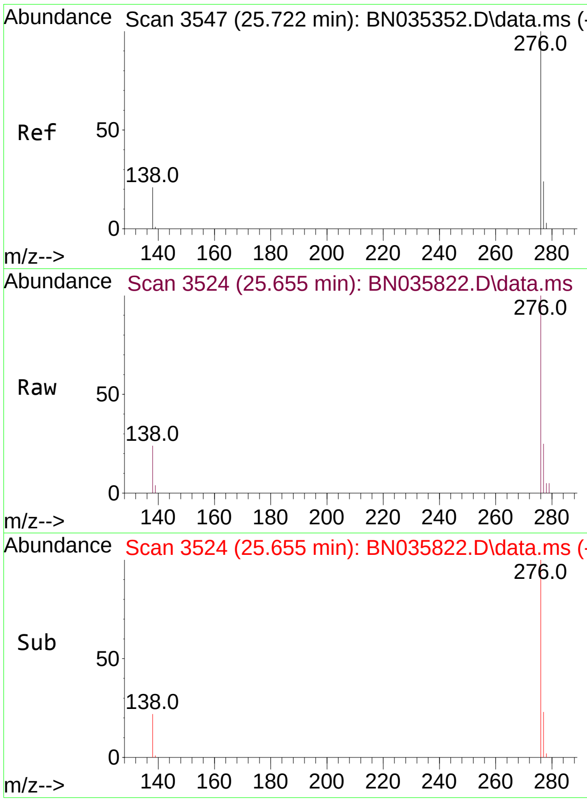


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.2	21.4
279	28.0	20.5	30.7

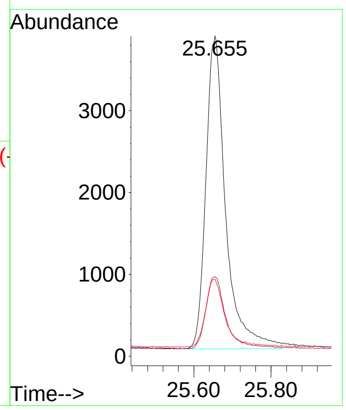




#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 1360

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	24.1	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/25/2024
Supervised By :mohammad ahmed 12/26/2024

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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:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035776.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035776.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:17 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035792.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:57 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Benzo(k)fluoranthene	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035794.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:44:11 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035809.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:45:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035811.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:56 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
PB165828BL	BN035812.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:12 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-08MS	BN035821.D	Nitrobenzene-d5	yogesh	12/25/2024 12:18:59 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5376-09MSD	BN035822.D	Nitrobenzene-d5	yogesh	12/25/2024 12:19:00 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035828.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035828.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:29 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	1,4-Dioxane	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Benzo(k)fluoranthene	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Fluoranthene-d10	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035830.D	Nitrobenzene-d5	yogesh	12/25/2024 12:20:30 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Benzo(k)fluoranthene	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
SSTDCCC0.4	BN035843.D	Nitrobenzene-d5	yogesh	12/26/2024 12:22:42 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN122624	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035845.D	Benzo(k)fluoranthene	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
P5374-03	BN035850.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:14 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
PB165828BS	BN035852.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:31 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software
SSTDCCC0.4	BN035861.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:44 AM	mohammad	12/27/2024 4:13:15 AM	Peak Integrated by Software

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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_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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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 # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	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	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	BN035775.D	23 Dec 2024 09:43	RC/JU	Ok
2	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22	RC/JU	Ok,M
3	PB165596BL	BN035777.D	23 Dec 2024 10:57	RC/JU	Not Ok
4	P5281-04	BN035778.D	23 Dec 2024 11:32	RC/JU	Dilution
5	P5317-15	BN035779.D	23 Dec 2024 12:08	RC/JU	Ok,M
6	P5317-16	BN035780.D	23 Dec 2024 12:43	RC/JU	Ok,M
7	P5317-17	BN035781.D	23 Dec 2024 13:19	RC/JU	Ok,M
8	P5317-18	BN035782.D	23 Dec 2024 13:54	RC/JU	Ok,M
9	P5317-19MS	BN035783.D	23 Dec 2024 14:30	RC/JU	Ok,M
10	P5317-20MSD	BN035784.D	23 Dec 2024 15:05	RC/JU	Ok,M
11	P5314-02	BN035785.D	23 Dec 2024 15:41	RC/JU	Ok,M
12	P5314-04	BN035786.D	23 Dec 2024 16:17	RC/JU	Ok,M
13	P5317-21	BN035787.D	23 Dec 2024 16:52	RC/JU	Dilution
14	P5317-22	BN035788.D	23 Dec 2024 17:28	RC/JU	Ok,M
15	P5317-24	BN035789.D	23 Dec 2024 18:04	RC/JU	Ok,M
16	P5317-25	BN035790.D	23 Dec 2024 18:39	RC/JU	Ok,M
17	P5281-02	BN035791.D	23 Dec 2024 19:15	RC/JU	Ok,M
18	SSTDCCC0.4	BN035792.D	23 Dec 2024 19:51	RC/JU	Ok,M
19	DFTPP	BN035793.D	23 Dec 2024 20:26	RC/JU	Ok
20	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16	RC/JU	Ok,M
21	PB165667BL	BN035795.D	23 Dec 2024 22:52	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIN	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	P5281-03	BN035796.D	23 Dec 2024 23:27	RC/JU	Ok,M
23	P5281-05	BN035797.D	24 Dec 2024 00:03	RC/JU	Ok,M
24	P5281-06	BN035798.D	24 Dec 2024 00:38	RC/JU	Dilution
25	P5281-07	BN035799.D	24 Dec 2024 01:14	RC/JU	Dilution
26	P5281-08	BN035800.D	24 Dec 2024 01:49	RC/JU	Ok,M
27	P5282-01	BN035801.D	24 Dec 2024 02:25	RC/JU	Dilution
28	P5282-02	BN035802.D	24 Dec 2024 03:00	RC/JU	Ok,M
29	P5282-03	BN035803.D	24 Dec 2024 03:36	RC/JU	Ok,M
30	P5282-04	BN035804.D	24 Dec 2024 04:12	RC/JU	Ok,M
31	P5284-01	BN035805.D	24 Dec 2024 04:47	RC/JU	Dilution
32	P5317-07	BN035806.D	24 Dec 2024 05:23	RC/JU	Ok,M
33	P5317-06	BN035807.D	24 Dec 2024 05:58	RC/JU	Ok,M
34	PB165667BS	BN035808.D	24 Dec 2024 06:34	RC/JU	Ok,M
35	SSTDCCC0.4	BN035809.D	24 Dec 2024 07:09	RC/JU	Ok,M
36	DFTPP	BN035810.D	24 Dec 2024 07:45	RC/JU	Ok
37	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59	RC/JU	Ok,M
38	PB165828BL	BN035812.D	24 Dec 2024 09:35	RC/JU	Ok,M
39	P5281-04DL	BN035813.D	24 Dec 2024 10:10	RC/JU	Ok,M
40	P5261-19DL	BN035814.D	24 Dec 2024 10:46	RC/JU	Not Ok
41	P5376-02	BN035815.D	24 Dec 2024 11:21	RC/JU	Ok,M
42	P5376-03	BN035816.D	24 Dec 2024 11:57	RC/JU	Dilution
43	P5376-04	BN035817.D	24 Dec 2024 12:33	RC/JU	Ok,M
44	P5376-05	BN035818.D	24 Dec 2024 13:08	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	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	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5376-06	BN035819.D	24 Dec 2024 13:44	RC/JU	Ok,M
46	P5376-07	BN035820.D	24 Dec 2024 14:19	RC/JU	Ok,M
47	P5376-08MS	BN035821.D	24 Dec 2024 14:55	RC/JU	Ok,M
48	P5376-09MSD	BN035822.D	24 Dec 2024 15:31	RC/JU	Ok,M
49	P5376-10	BN035823.D	24 Dec 2024 16:06	RC/JU	Ok,M
50	P5376-11	BN035824.D	24 Dec 2024 16:42	RC/JU	Ok,M
51	P5376-12	BN035825.D	24 Dec 2024 17:18	RC/JU	Ok,M
52	P5376-13	BN035826.D	24 Dec 2024 17:53	RC/JU	Ok,M
53	P5376-14	BN035827.D	24 Dec 2024 18:29	RC/JU	Ok,M
54	SSTDCCC0.4	BN035828.D	24 Dec 2024 19:05	RC/JU	Ok,M
55	DFTPP	BN035829.D	24 Dec 2024 19:41	RC/JU	Ok
56	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55	RC/JU	Ok,M
57	PB165596BL	BN035831.D	24 Dec 2024 22:07	RC/JU	Not Ok
58	P5376-15	BN035832.D	24 Dec 2024 22:42	RC/JU	ReRun
59	P5376-16	BN035833.D	24 Dec 2024 23:18	RC/JU	Ok,M
60	P5376-17	BN035834.D	24 Dec 2024 23:53	RC/JU	Ok,M
61	P5376-18	BN035835.D	25 Dec 2024 00:29	RC/JU	Ok,M
62	P5376-19	BN035836.D	25 Dec 2024 01:05	RC/JU	ReRun
63	P5376-20	BN035837.D	25 Dec 2024 01:40	RC/JU	Ok,M
64	P5376-01	BN035838.D	25 Dec 2024 02:16	RC/JU	ReRun
65	PB165723BS	BN035839.D	25 Dec 2024 02:51	RC/JU	Not Ok
66	PB165724BSD	BN035840.D	25 Dec 2024 03:27	RC/JU	Not Ok
67	PB165828BS	BN035841.D	25 Dec 2024 04:03	RC/JU	Not Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	HP Acquire Method	BNA_N, 8270_SIN	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	

68	P5374-03	BN035842.D	25 Dec 2024 04:38	RC/JU	ReRun
69	SSTDCCC0.4	BN035843.D	25 Dec 2024 05:14	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM		
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM		
SubDirectory	BN122624	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	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	BN035844.D	26 Dec 2024 09:19	RC/JU	Ok
2	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58	RC/JU	Ok,M
3	PB165724BL	BN035846.D	26 Dec 2024 10:35	RC/JU	Ok,NR
4	P5376-15	BN035847.D	26 Dec 2024 11:20	RC/JU	Ok,M
5	P5376-19	BN035848.D	26 Dec 2024 11:56	RC/JU	Ok,M
6	P5376-01	BN035849.D	26 Dec 2024 12:31	RC/JU	Ok,M
7	P5374-03	BN035850.D	26 Dec 2024 13:07	RC/JU	Ok,M
8	PB165723BS	BN035851.D	26 Dec 2024 13:43	RC/JU	Ok,M
9	PB165828BS	BN035852.D	26 Dec 2024 14:19	RC/JU	Ok,M
10	PB165724BSD	BN035853.D	26 Dec 2024 14:54	RC/JU	Ok,M
11	P5376-03DL	BN035854.D	26 Dec 2024 15:30	RC/JU	Ok,M
12	P5317-21DL	BN035855.D	26 Dec 2024 16:06	RC/JU	Ok,M
13	P5281-07DL	BN035856.D	26 Dec 2024 16:42	RC/JU	Ok,M
14	P5282-01DL	BN035857.D	26 Dec 2024 17:18	RC/JU	Ok,M
15	P5281-06DL	BN035858.D	26 Dec 2024 17:53	RC/JU	Ok,M
16	P5284-01DL	BN035859.D	26 Dec 2024 18:29	RC/JU	Ok,M
17	P5261-19DL	BN035860.D	26 Dec 2024 19:05	RC/JU	Ok,M
18	SSTDCCC0.4	BN035861.D	26 Dec 2024 19:41	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 # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	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	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	BN035775.D	23 Dec 2024 09:43		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035776.D	23 Dec 2024 10:22		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035777.D	23 Dec 2024 10:57	Analyzed for contamination check	RC/JU	Not Ok
4	P5281-04	TT101D2-20241212	BN035778.D	23 Dec 2024 11:32	Need 2X Dilution	RC/JU	Dilution
5	P5317-15	RW9-MW01D2-202412	BN035779.D	23 Dec 2024 12:08		RC/JU	Ok,M
6	P5317-16	RW9-MW01D3-202412	BN035780.D	23 Dec 2024 12:43		RC/JU	Ok,M
7	P5317-17	DUP-06-20241217	BN035781.D	23 Dec 2024 13:19		RC/JU	Ok,M
8	P5317-18	RE132D5-20241217	BN035782.D	23 Dec 2024 13:54		RC/JU	Ok,M
9	P5317-19MS	RE132D5-20241217MS	BN035783.D	23 Dec 2024 14:30		RC/JU	Ok,M
10	P5317-20MSD	RE132D5-20241217MS	BN035784.D	23 Dec 2024 15:05		RC/JU	Ok,M
11	P5314-02	BP-VPB-190A-GW-678	BN035785.D	23 Dec 2024 15:41		RC/JU	Ok,M
12	P5314-04	VPB190A-HYD-202412	BN035786.D	23 Dec 2024 16:17		RC/JU	Ok,M
13	P5317-21	RE132D6-20241217	BN035787.D	23 Dec 2024 16:52	Need 5X Dilution	RC/JU	Dilution
14	P5317-22	RE132D7-20241217	BN035788.D	23 Dec 2024 17:28		RC/JU	Ok,M
15	P5317-24	RW8-MW01D2-202412	BN035789.D	23 Dec 2024 18:04		RC/JU	Ok,M
16	P5317-25	RW8-MW01D3-202412	BN035790.D	23 Dec 2024 18:39		RC/JU	Ok,M
17	P5281-02	BPOW1-7-20241212	BN035791.D	23 Dec 2024 19:15		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM	
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM	
SubDirectory	BN122324	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	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	SSTDCCC0.4	SSTDCCC0.4EC	BN035792.D	23 Dec 2024 19:51		RC/JU	Ok,M
19	DFTPP	DFTPP	BN035793.D	23 Dec 2024 20:26		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN035794.D	23 Dec 2024 22:16		RC/JU	Ok,M
21	PB165667BL	PB165667BL	BN035795.D	23 Dec 2024 22:52		RC/JU	Ok,M
22	P5281-03	BPOW1-8-20241212	BN035796.D	23 Dec 2024 23:27		RC/JU	Ok,M
23	P5281-05	RE117D1-20241213	BN035797.D	24 Dec 2024 00:03		RC/JU	Ok,M
24	P5281-06	RE115D1-20241213	BN035798.D	24 Dec 2024 00:38	Need 2X Dilution	RC/JU	Dilution
25	P5281-07	TT189D2-20241213	BN035799.D	24 Dec 2024 01:14	Need 2X Dilution	RC/JU	Dilution
26	P5281-08	FB02-20241213	BN035800.D	24 Dec 2024 01:49		RC/JU	Ok,M
27	P5282-01	RW7-SP100-20241212	BN035801.D	24 Dec 2024 02:25	Need 2X Dilution	RC/JU	Dilution
28	P5282-02	RW7-SP201-20241212	BN035802.D	24 Dec 2024 03:00		RC/JU	Ok,M
29	P5282-03	RW7-SP302-20241212	BN035803.D	24 Dec 2024 03:36		RC/JU	Ok,M
30	P5282-04	RW7-SP303-20241212	BN035804.D	24 Dec 2024 04:12		RC/JU	Ok,M
31	P5284-01	RW5-SP100-20241212	BN035805.D	24 Dec 2024 04:47	Need 5X Dilution	RC/JU	Dilution
32	P5317-07	RW8-MW01S-2024121	BN035806.D	24 Dec 2024 05:23		RC/JU	Ok,M
33	P5317-06	DUP-04-20241216	BN035807.D	24 Dec 2024 05:58		RC/JU	Ok,M
34	PB165667BS	PB165667BS	BN035808.D	24 Dec 2024 06:34		RC/JU	Ok,M
35	SSTDCCC0.4	SSTDCCC0.4EC	BN035809.D	24 Dec 2024 07:09		RC/JU	Ok,M
36	DFTPP	DFTPP	BN035810.D	24 Dec 2024 07:45		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM		
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM		
SubDirectory	BN122324	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	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

37	SSTDCCC0.4	SSTDCCC0.4	BN035811.D	24 Dec 2024 08:59		RC/JU	Ok,M
38	PB165828BL	PB165828BL	BN035812.D	24 Dec 2024 09:35		RC/JU	Ok,M
39	P5281-04DL	TT101D2-20241212DL	BN035813.D	24 Dec 2024 10:10		RC/JU	Ok,M
40	P5261-19DL	RE120D3-20241210DL	BN035814.D	24 Dec 2024 10:46	Not Match Dilution	RC/JU	Not Ok
41	P5376-02	TT150S1-20241218	BN035815.D	24 Dec 2024 11:21		RC/JU	Ok,M
42	P5376-03	RE115D2-20241218	BN035816.D	24 Dec 2024 11:57	Need 5X Dilution	RC/JU	Dilution
43	P5376-04	TT149S1-20241218	BN035817.D	24 Dec 2024 12:33		RC/JU	Ok,M
44	P5376-05	DUP-07-20241218	BN035818.D	24 Dec 2024 13:08		RC/JU	Ok,M
45	P5376-06	TT174I1-20241218	BN035819.D	24 Dec 2024 13:44		RC/JU	Ok,M
46	P5376-07	RW10-MW01S-202412	BN035820.D	24 Dec 2024 14:19		RC/JU	Ok,M
47	P5376-08MS	RW10-MW01S-202412	BN035821.D	24 Dec 2024 14:55		RC/JU	Ok,M
48	P5376-09MSD	RW10-MW01S-202412	BN035822.D	24 Dec 2024 15:31		RC/JU	Ok,M
49	P5376-10	RW10-MW01D-202412	BN035823.D	24 Dec 2024 16:06		RC/JU	Ok,M
50	P5376-11	RW10A-MW01S-20241	BN035824.D	24 Dec 2024 16:42		RC/JU	Ok,M
51	P5376-12	RW10A-MW01I-202412	BN035825.D	24 Dec 2024 17:18		RC/JU	Ok,M
52	P5376-13	RE117D2-20241218	BN035826.D	24 Dec 2024 17:53		RC/JU	Ok,M
53	P5376-14	TT161S1-20241219	BN035827.D	24 Dec 2024 18:29		RC/JU	Ok,M
54	SSTDCCC0.4	SSTDCCC0.4EC	BN035828.D	24 Dec 2024 19:05		RC/JU	Ok,M
55	DFTPP	DFTPP	BN035829.D	24 Dec 2024 19:41		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122324

Review By	Yogesh	Review On	12/24/2024 8:45:14 AM
Supervise By	mohammad	Supervise On	12/26/2024 1:14:41 AM
SubDirectory	BN122324	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	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

56	SSTDCCC0.4	SSTDCCC0.4	BN035830.D	24 Dec 2024 20:55		RC/JU	Ok,M
57	PB165596BL	PB165596BL	BN035831.D	24 Dec 2024 22:07		RC/JU	Not Ok
58	P5376-15	TT162S1-20241219	BN035832.D	24 Dec 2024 22:42	CCC Fail high for Com#2	RC/JU	ReRun
59	P5376-16	RW11-MW01S-202412	BN035833.D	24 Dec 2024 23:18		RC/JU	Ok,M
60	P5376-17	RW11-MW01I-2024121	BN035834.D	24 Dec 2024 23:53		RC/JU	Ok,M
61	P5376-18	TT119S1-20241219	BN035835.D	25 Dec 2024 00:29		RC/JU	Ok,M
62	P5376-19	TT188S1-20241219	BN035836.D	25 Dec 2024 01:05	CCC Fail high for Com#2	RC/JU	ReRun
63	P5376-20	FB03-20241219	BN035837.D	25 Dec 2024 01:40		RC/JU	Ok,M
64	P5376-01	TT205S1-20241218	BN035838.D	25 Dec 2024 02:16	CCC Fail high for Com#2	RC/JU	ReRun
65	PB165723BS	PB165723BS	BN035839.D	25 Dec 2024 02:51	CCC Fail high for Com#2	RC/JU	Not Ok
66	PB165724BSD	PB165724BSD	BN035840.D	25 Dec 2024 03:27	CCC Fail high for Com#2	RC/JU	Not Ok
67	PB165828BS	PB165828BS	BN035841.D	25 Dec 2024 04:03	CCC Fail high for Com#2	RC/JU	Not Ok
68	P5374-03	BP-VPB-190A-GW-718	BN035842.D	25 Dec 2024 04:38	CCC Fail high for Com#2	RC/JU	ReRun
69	SSTDCCC0.4	SSTDCCC0.4EC	BN035843.D	25 Dec 2024 05:14		RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM		
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM		
SubDirectory	BN122624	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	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	BN035844.D	26 Dec 2024 09:19		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035845.D	26 Dec 2024 09:58		RC/JU	Ok,M
3	PB165724BL	PB165724BL	BN035846.D	26 Dec 2024 10:35		RC/JU	Ok,NR
4	P5376-15	TT162S1-20241219	BN035847.D	26 Dec 2024 11:20		RC/JU	Ok,M
5	P5376-19	TT188S1-20241219	BN035848.D	26 Dec 2024 11:56		RC/JU	Ok,M
6	P5376-01	TT205S1-20241218	BN035849.D	26 Dec 2024 12:31		RC/JU	Ok,M
7	P5374-03	BP-VPB-190A-GW-718	BN035850.D	26 Dec 2024 13:07		RC/JU	Ok,M
8	PB165723BS	PB165723BS	BN035851.D	26 Dec 2024 13:43		RC/JU	Ok,M
9	PB165828BS	PB165828BS	BN035852.D	26 Dec 2024 14:19		RC/JU	Ok,M
10	PB165724BSD	PB165724BSD	BN035853.D	26 Dec 2024 14:54		RC/JU	Ok,M
11	P5376-03DL	RE115D2-20241218DL	BN035854.D	26 Dec 2024 15:30		RC/JU	Ok,M
12	P5317-21DL	RE132D6-20241217DL	BN035855.D	26 Dec 2024 16:06		RC/JU	Ok,M
13	P5281-07DL	TT189D2-20241213DL	BN035856.D	26 Dec 2024 16:42		RC/JU	Ok,M
14	P5282-01DL	RW7-SP100-20241212	BN035857.D	26 Dec 2024 17:18		RC/JU	Ok,M
15	P5281-06DL	RE115D1-20241213DL	BN035858.D	26 Dec 2024 17:53		RC/JU	Ok,M
16	P5284-01DL	RW5-SP100-20241212	BN035859.D	26 Dec 2024 18:29		RC/JU	Ok,M
17	P5261-19DL	RE120D3-20241210DL	BN035860.D	26 Dec 2024 19:05		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN035861.D	26 Dec 2024 19:41		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN122624

Review By	yogesh	Review On	12/27/2024 3:53:55 AM		
Supervise By	mohammad	Supervise On	12/27/2024 4:13:15 AM		
SubDirectory	BN122624	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	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165828

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:	4,5,6,7
Extraction Start Date :	12/23/2024
Extraction Start Time :	13:29
Extraction End Date :	12/23/2024
Extraction End Time :	18:25
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	SP6616
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	EP2571
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 -01,02
KD Bath Temperature:	60 °C
Envap ID:	NEVAP-02
Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/23/24 18:30	RP (Ext Lab)	RL/SVOC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165828

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

Concentration Date: 12/23/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By: AddedBy	Surr/Spike By: VerifiedBy	Final Vol. (mL)	JarID	Comments	Prep Pos
PB165828BL	SBLK828	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			SEP-1
PB165828BS	SLCS828	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			2
P5374-03	BP-VPB-190A-GW-718-720	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		3
P5376-01	TT205S1-20241218	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		4
P5376-02	TT150S1-20241218	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		5
P5376-03	RE115D2-20241218	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		6
P5376-04	TT149S1-20241218	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		7
P5376-05	DUP-07-20241218	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		8
P5376-06	TT174I1-20241218	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		9
P5376-07	RW10-MW01S-20241218	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		10
P5376-08	P5376-07MS	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		11
P5376-09	P5376-07MSD	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		12
P5376-10	RW10-MW01D-20241218	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		13
P5376-11	RW10A-MW01S-20241218	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		14
P5376-12	RW10A-MW01I-20241218	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		15
P5376-13	RE117D2-20241218	SVOC-SIMGroup1	960	6	RUPESH	rajesh	1	C		16
P5376-14	TT161S1-20241219	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		17
P5376-15	TT162S1-20241219	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		18
P5376-16	RW11-MW01S-20241219	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		SEP-1
P5376-17	RW11-MW01I-20241219	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		2
P5376-18	TT119S1-20241219	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		3
P5376-19	TT188S1-20241219	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		4
P5376-20	FB03-20241219	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1	C		5

* **Extracts relinguished on the same date as received.**

8 12/23/24

1658
13:29

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p5376 **WorkList ID :** 186576 **Department :** Extraction **Date :** 12-23-2024 13:27:33

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5374-03	BP-VPB-190A-GW-718-720	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	N31	12/18/2024	8270-Modified
P5376-01	TT205S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-02	TT150S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-03	RE115D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-04	TT149S1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-05	DUP-07-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-06	TT174I1-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-07	RW10-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-08	P5376-07MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-09	P5376-07MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-10	RW10-MW01D-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-11	RW10A-MW01S-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-12	RW10A-MW01I-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-13	RE117D2-20241218	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/18/2024	8270-Modified
P5376-14	TT161S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-15	TT162S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-16	RW11-MW01S-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-17	RW11-MW01I-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-18	TT119S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-19	TT188S1-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified
P5376-20	FB03-20241219	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	N23	12/19/2024	8270-Modified

Date/Time 12/23/24 13:25
Raw Sample Received by: RS (Set 2xx)
Raw Sample Relinquished by: JD CSM

Date/Time 12/23/24 14:02
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: RS (Set 1xx)

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Prep Standard - Chemical Standard Summary

Order ID : P5374

Test : SVOC-SIMGroup1

Prepbatch ID : PB165828,

Sequence ID/Qc Batch ID: BN122324,bn122624,

Standard ID :
EP2559,EP2565,EP2571,SP6573,SP6616,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,S11792,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	EP2571	12/11/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Yogesh Patel 12/16/2024

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	SP6616	09/06/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11792 + 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	07/01/2025	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	02/21/2025	08/21/2024 / Jagrut	11/21/2023 / Rahul	S11792

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

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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

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S9236
to
S9240

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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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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 ºC	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

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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
03/18/22
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		1,003.6 µg/mL	+/- 5.8897	µg/mL	Gravimetric
	CAS # 87-86-5	(Lot 211229RSR)		+/- 45.7132	µg/mL	Unstressed
	Purity 99%			+/- 66.0037	µg/mL	Stressed
2	DFTPP (Decafluorotriphenylphosphine)		1,006.6 µg/mL	+/- 5.9074	µg/mL	Gravimetric
	CAS # 5074-71-5	(Lot Q117-147)		+/- 45.8508	µg/mL	Unstressed
	Purity 95%			+/- 66.2023	µg/mL	Stressed
3	Benzidine		1,008.4 µg/mL	+/- 5.9179	µg/mL	Gravimetric
	CAS # 92-87-5	(Lot 211228JLM)		+/- 45.9318	µg/mL	Unstressed
	Purity 99%			+/- 66.3193	µg/mL	Stressed
4	4,4'-DDT		1,007.6 µg/mL	+/- 5.9132	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 210916JLM)		+/- 45.8954	µg/mL	Unstressed
	Purity 99%			+/- 66.2667	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

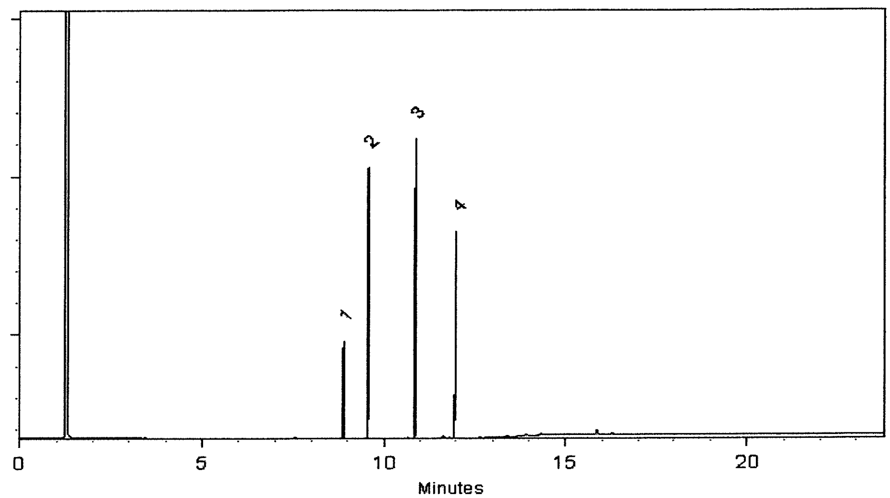
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Marlina 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
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

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.
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Received on 02/08/23 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)

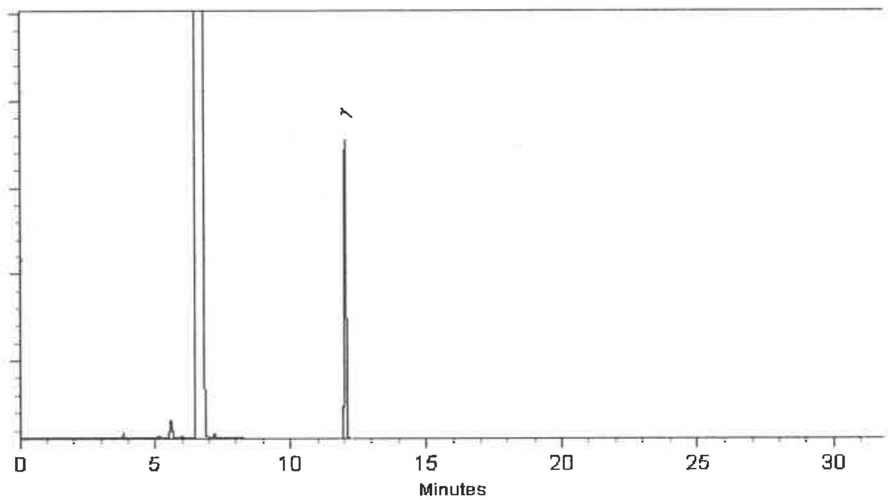
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA 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.

Catalog No. : 555872 **Lot No.:** A0193449

Received on 01/13/23 by CG S11011 to S11015

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.

RE-02-01, Ed. 3

Recd. by RB on 7/24/23 E 3551

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

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

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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 KP on 10/9/24

E 3818

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

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

E3828

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™ J.T.Baker®

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

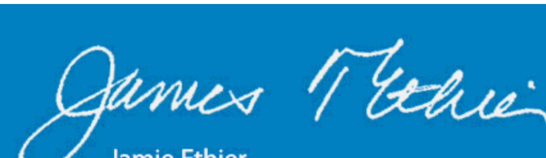
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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



Jamie Ethier
Vice President Global Quality

CPI INTERNATIONAL

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(707)545-7901 Fax

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Date Received:__________

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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

S11494
&
S11498

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 gravimetriclly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749
↓
S11794
RC 11/30/23

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

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.)

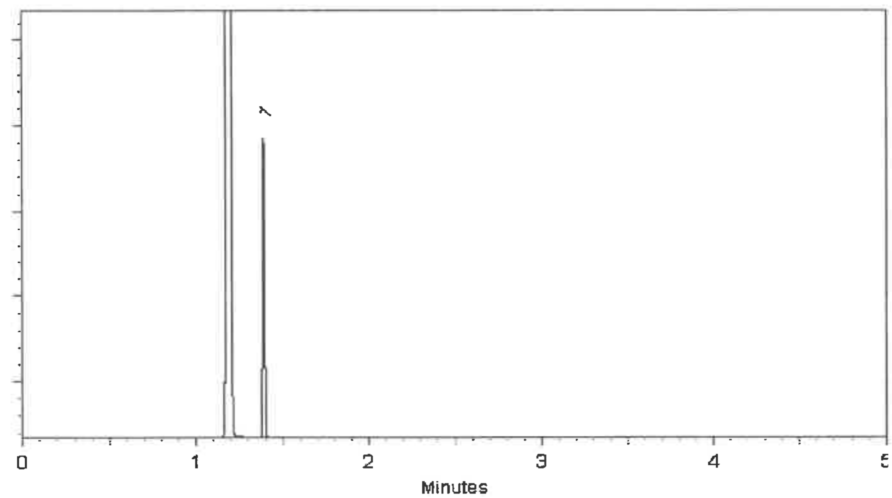
Inj. Temp:
250°C

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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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

S11828 ↓ S11832 RC/ 11/30/23

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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.)

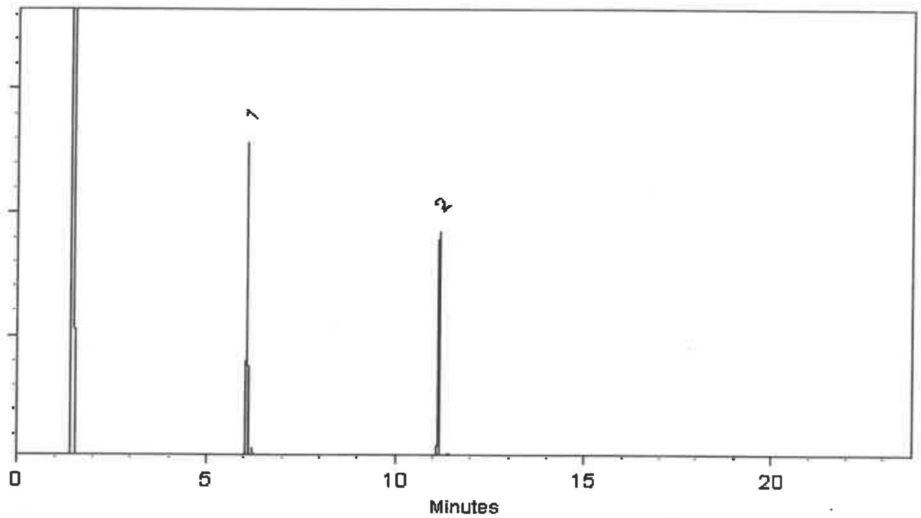
Inj. Temp:
250°C

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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Date Received:

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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gravimetric

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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. : 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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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112
↓
912116

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 gravimetriclly.

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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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117
↓
S12146
RC/
03/18/24

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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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

S12117 ↓ S12146 RC/ 03/18/24

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

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

S12187 ↓ S12206 RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

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.)

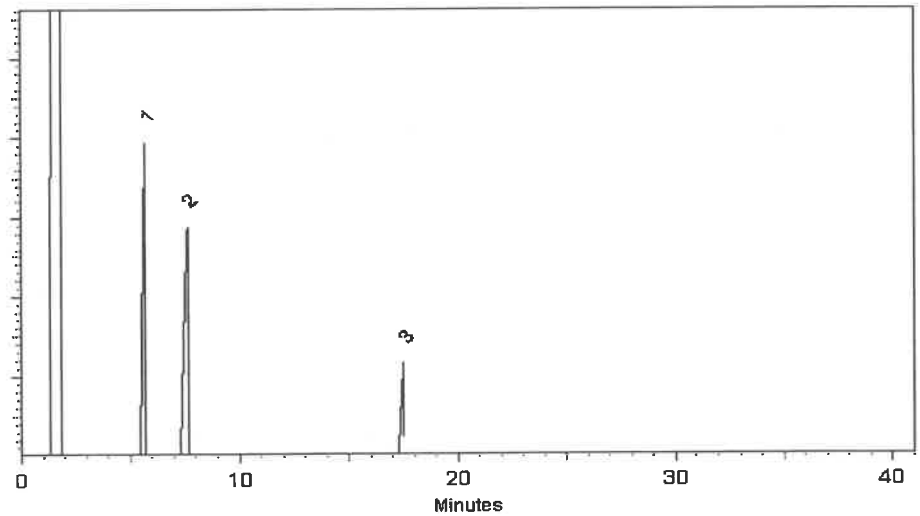
Inj. Temp:
250°C

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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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

S12207 ↓ S12221 RC/ 03/18/24

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

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.)

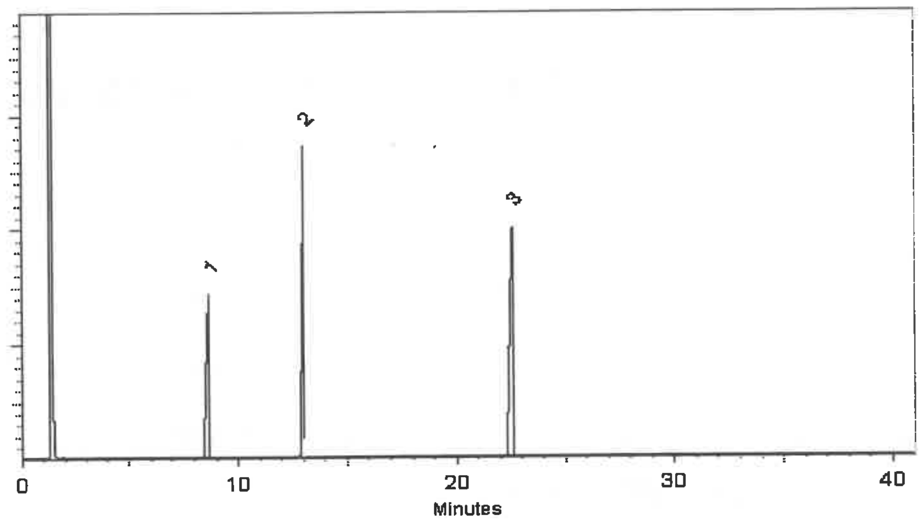
Inj. Temp:
250°C

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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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 31086 **Lot No.:** A0206381

S12207 ↓ S12221 RC/ 03/18/24

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

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.)

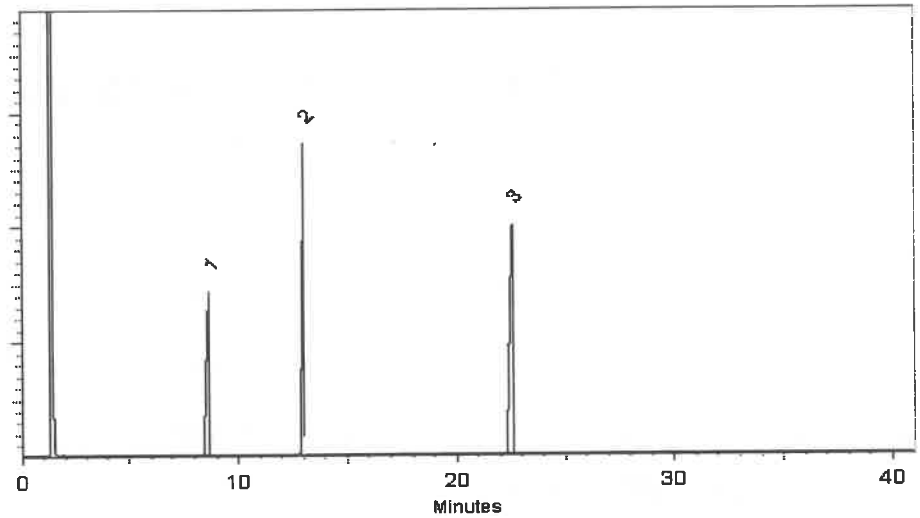
Inj. Temp:
250°C

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.)

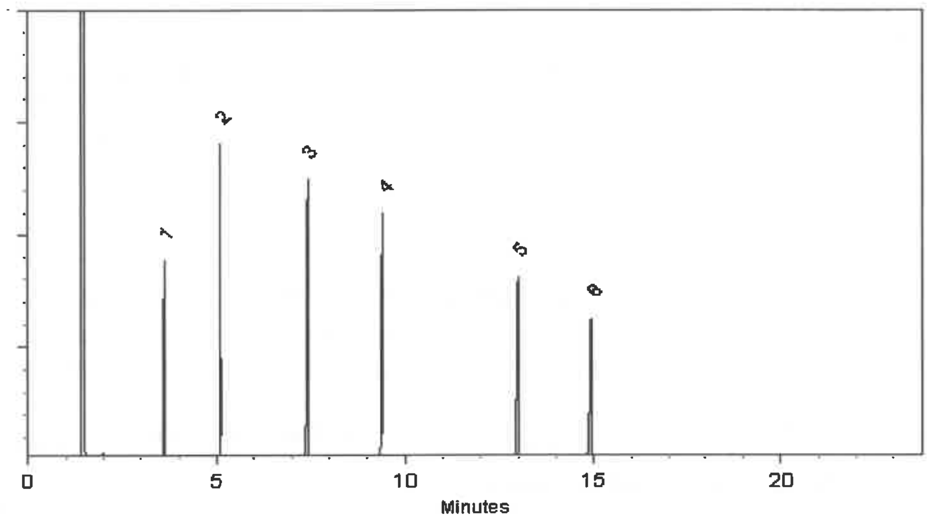
Inj. Temp:
250°C

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

Certificate of Analysis

chromatographic plus

ilac-MRA

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.

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.)

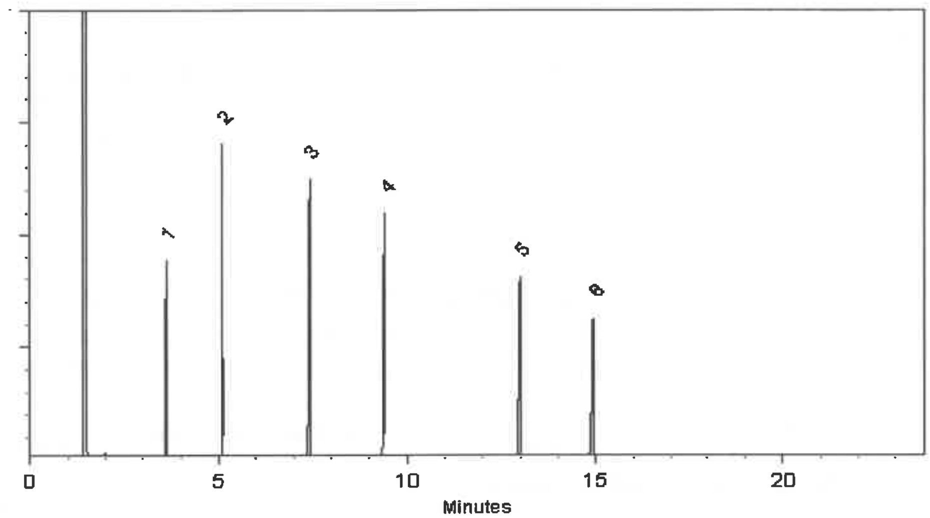
Inj. Temp:
250°C

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
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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. : 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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA 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.

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:

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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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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.
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- Purity values are rounded to the nearest whole number.

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  $$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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:

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Alliance
TECHNICAL GROUP

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: P5374

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: Tetra Tech	PROJECT NAME: NWIRP Bethpage	BILL TO: SEE CONTRACT PO#
ADDRESS: 4433 Corporation Lane Suite 300	PROJECT #: 112G08005-WE13 LOCATION: VPB-189	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: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 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
VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)							

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	GRAB	SAMPLE COLLECTION DATE	TIME	# of Bottles	PRESERVATIVES 1 (A)	2	3	4	5	6	7	8	9	COMMENTS
1.	BP-VPB-190A-TB-20241218	QA		X	12/18/24	8:00	2	2									Trip Blank
2.	BP-VPB-190A-EB-20241218	QA		X	12/18/24	12:00	2	2									Equipment Blank
3.	BP-VPB-190A-GW-718-720	AQ		X	12/18/24	11:40	3	2	1								
4.	BP-VPB-190A-GW-748-750	AQ		X	12/19/24	13:15	6	6									MS/MSD
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER 1. [signature]	12/20/24 14:00	1. [signature] 12.20.2024 1450
RELINQUISHED BY 2. [signature]	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3. [signature]	DATE/TIME 1810 12-20-2024	RECEIVED FOR LAB BY 3. [signature]

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.9°c
MeOH extraction requires an additional 4oz. Jar for percent solid ☒ Ice in Cooler?: yes

Comments: **48hr TAT** - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

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

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

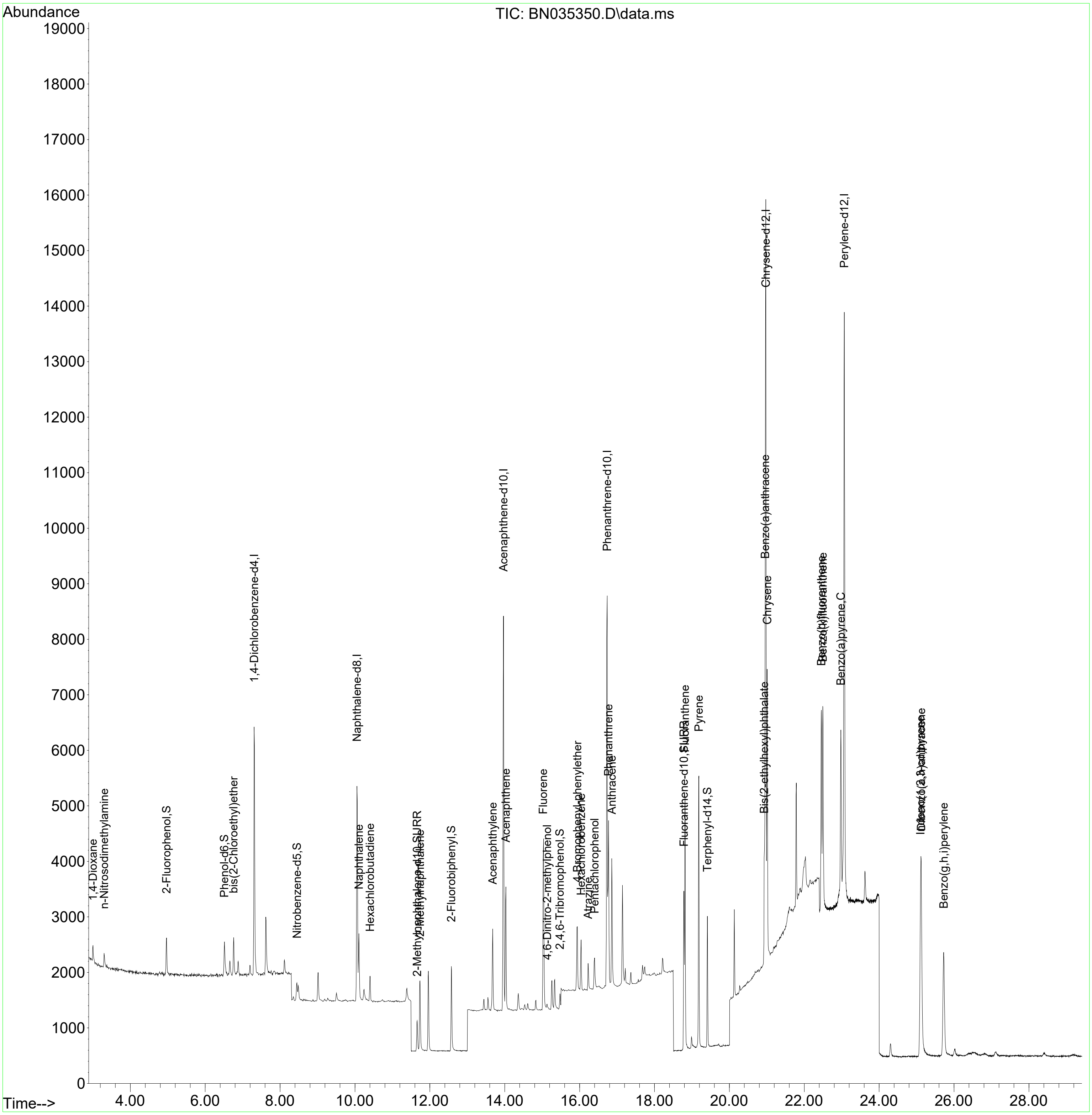
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400 ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400 ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400 ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400 ng		0.00
29) Chrysene-d12	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

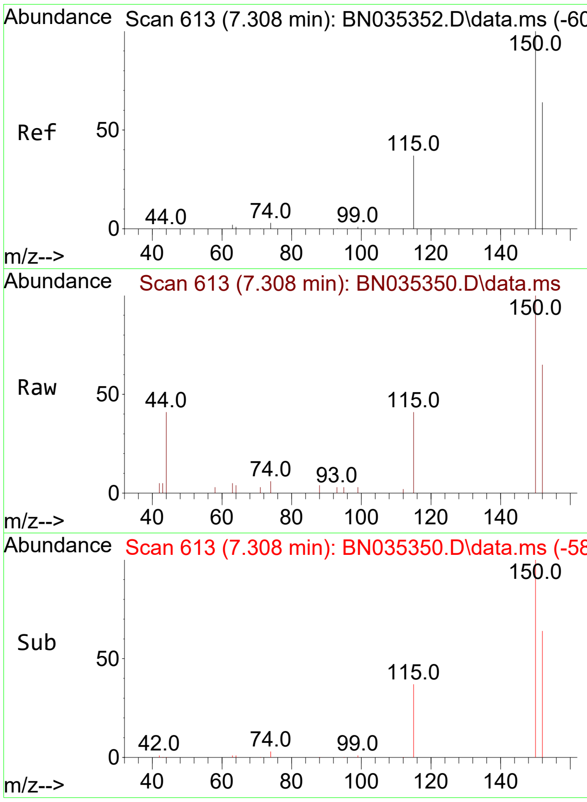
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



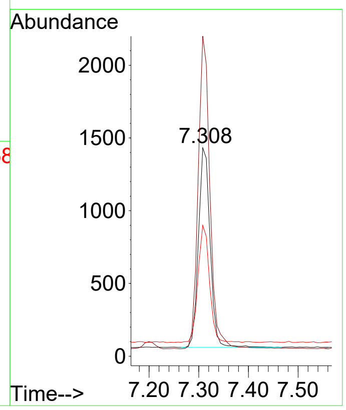


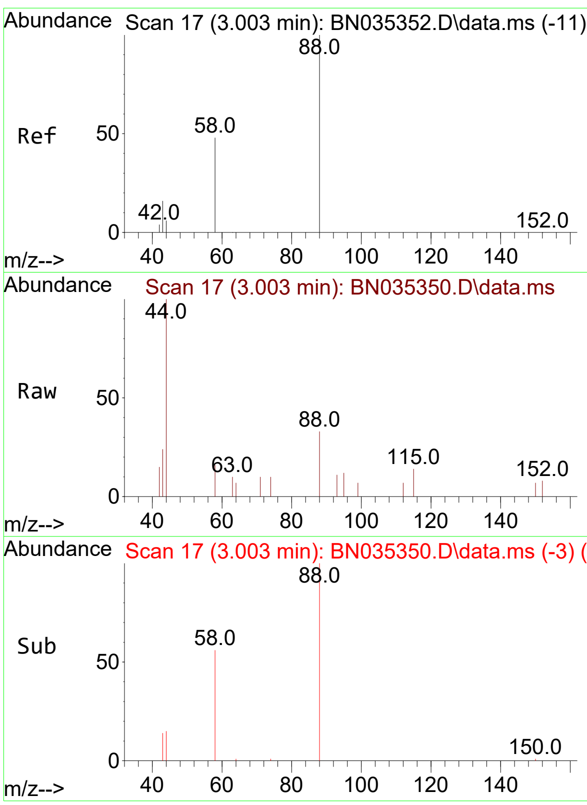
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

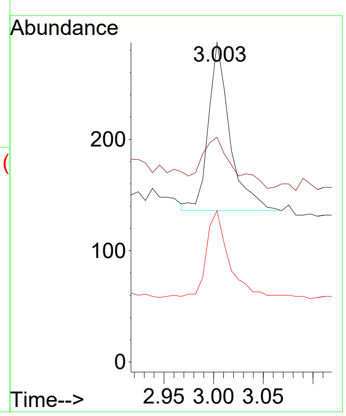


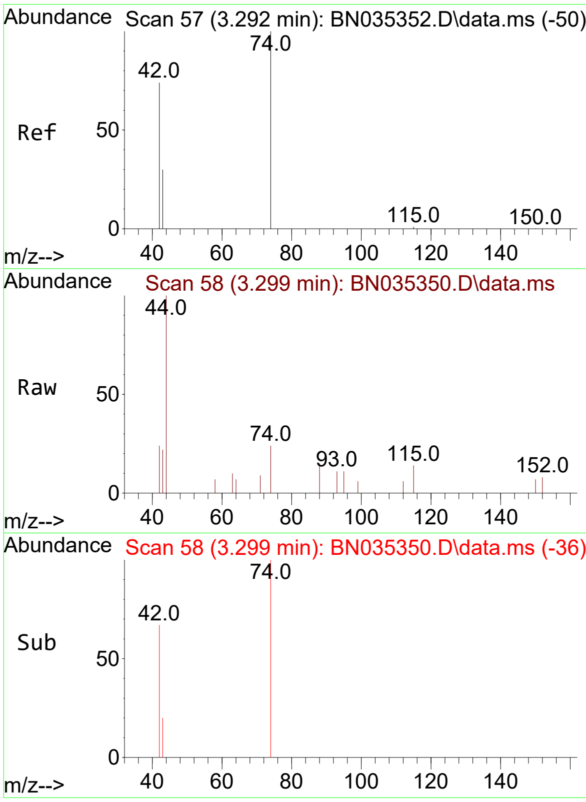


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





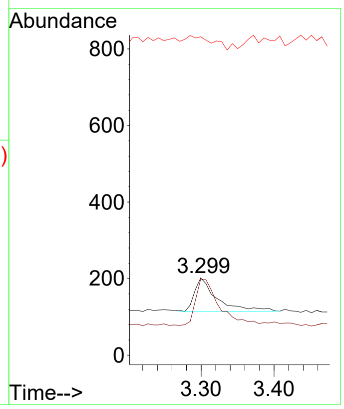
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5

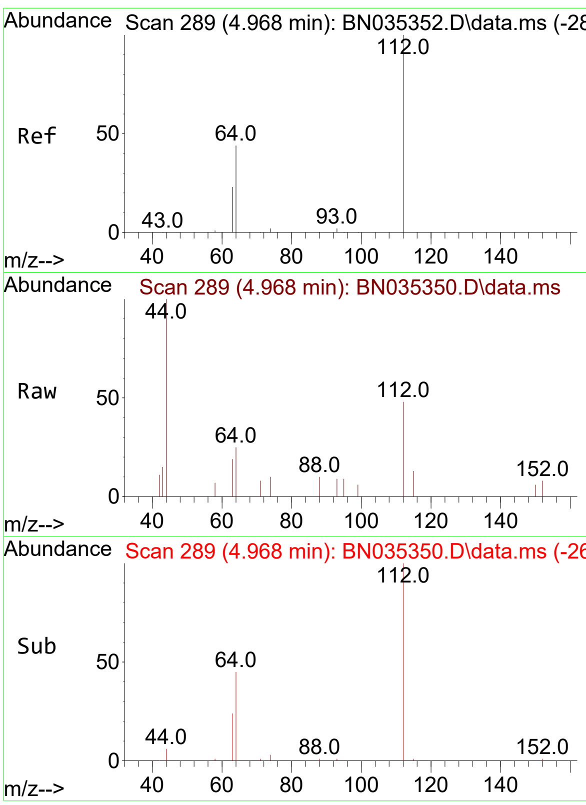
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

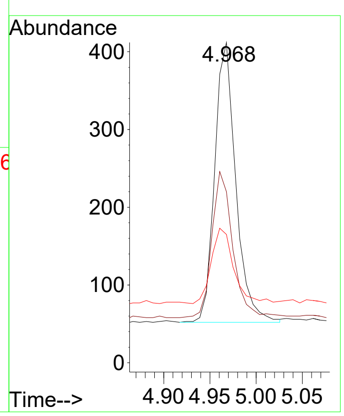


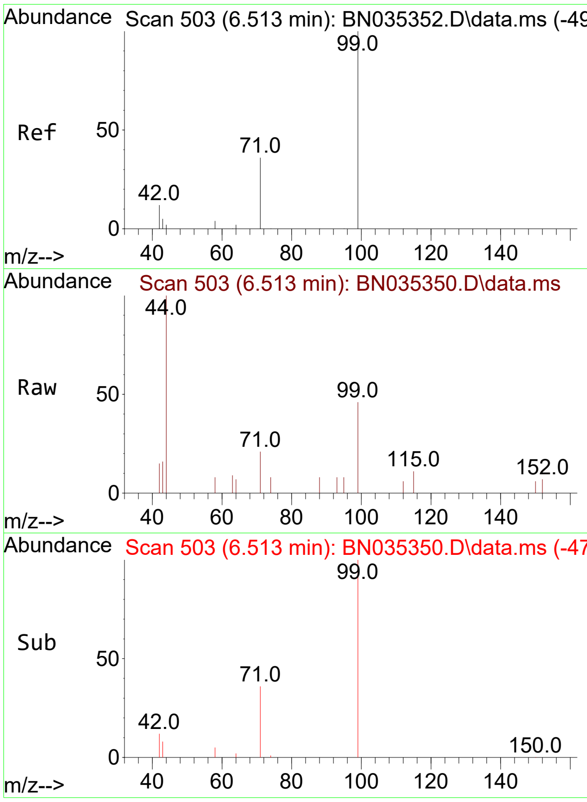


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



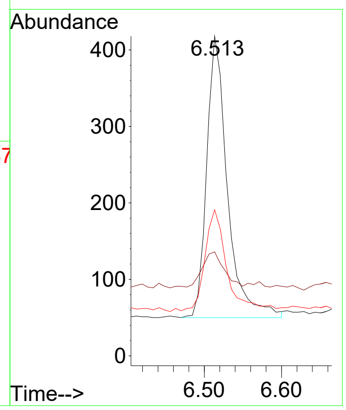


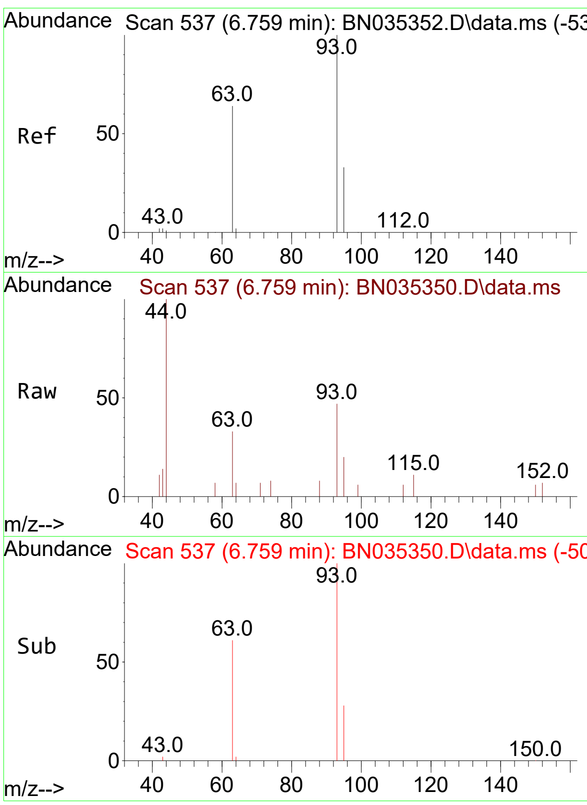
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

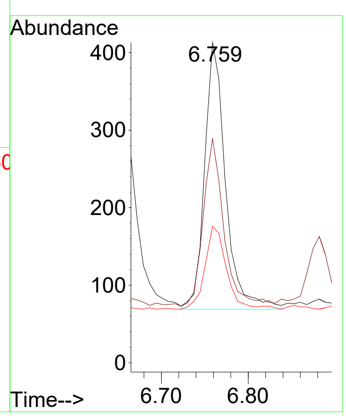


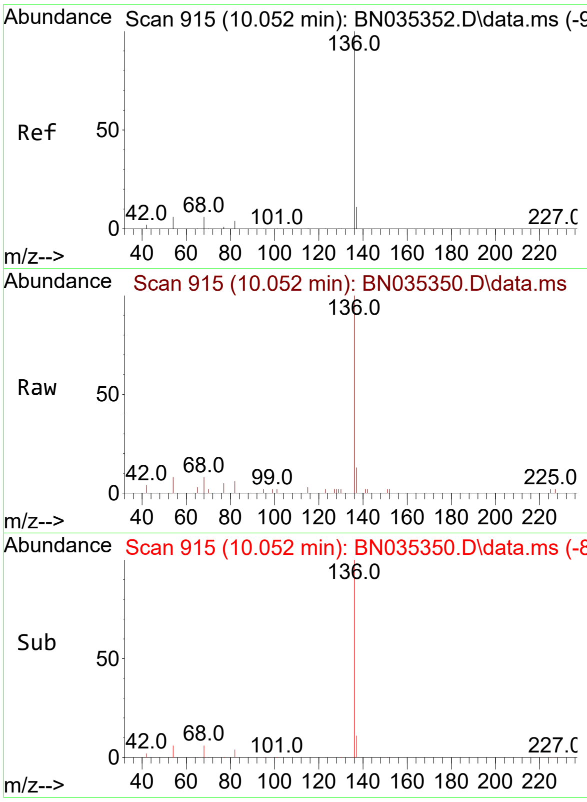


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



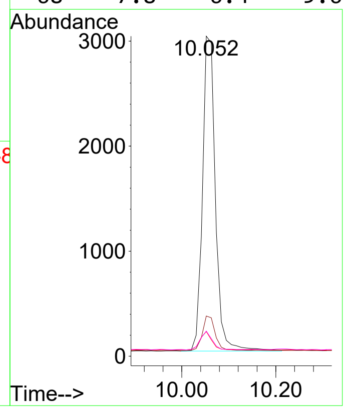


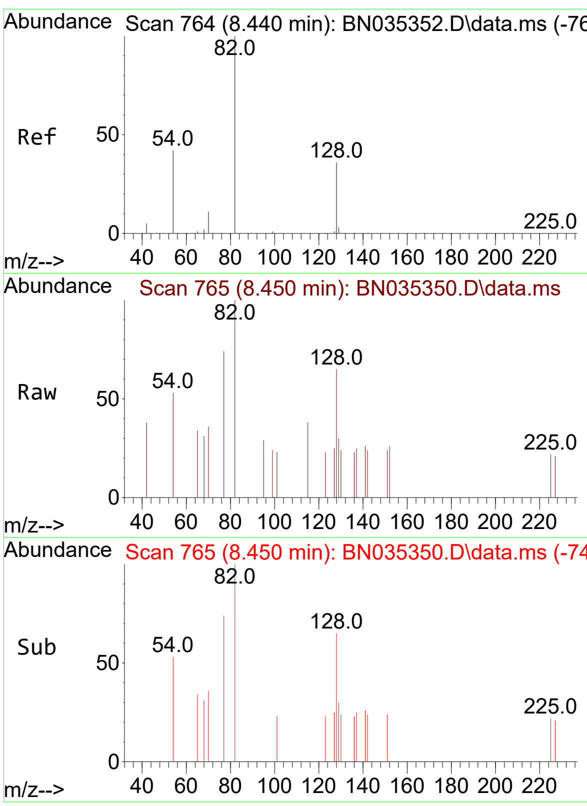
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

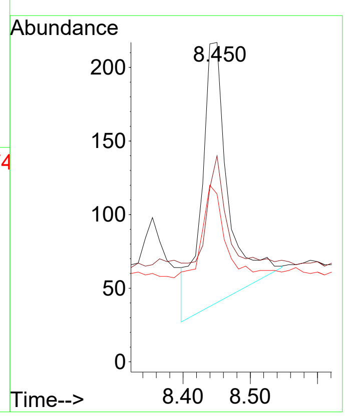




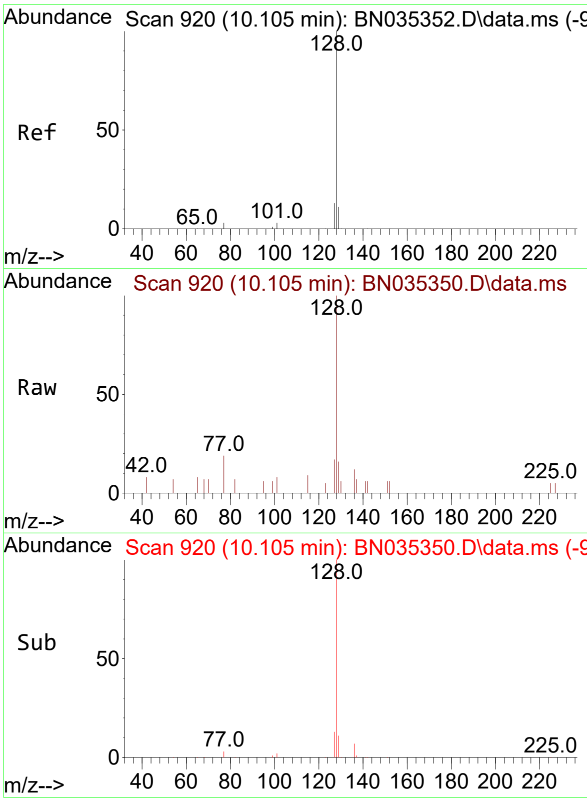
#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



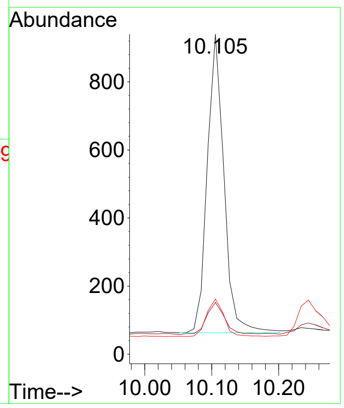
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

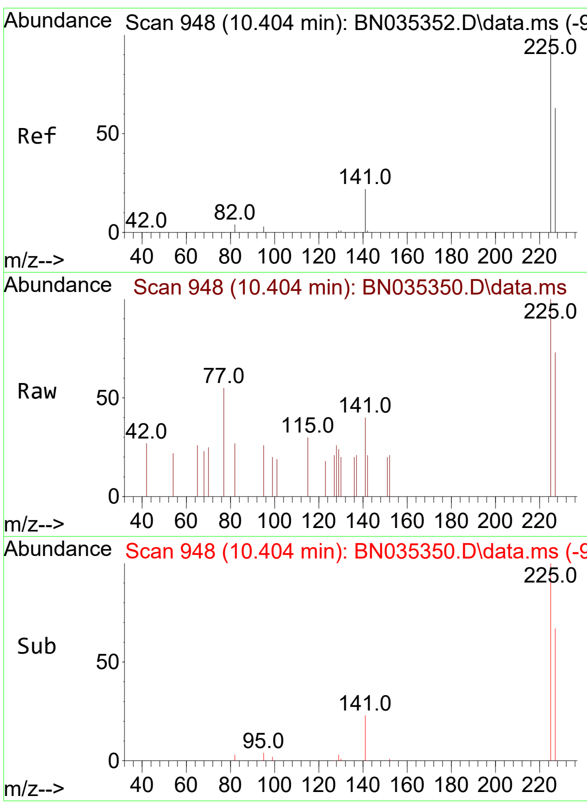


#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:128 Resp: 1527

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

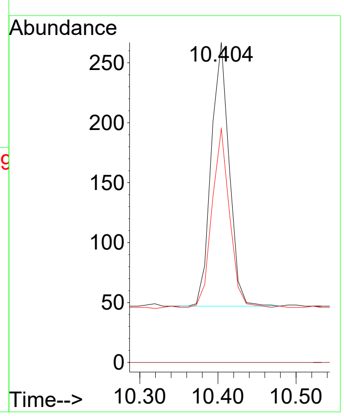


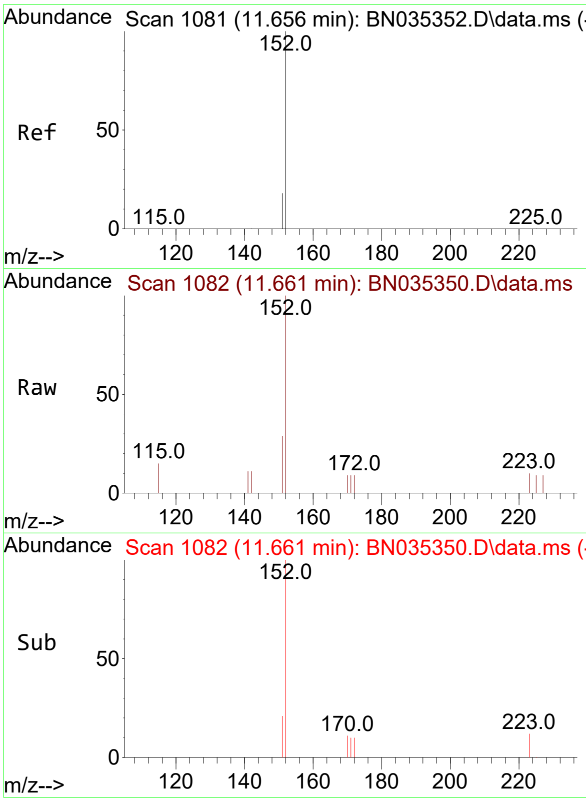


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



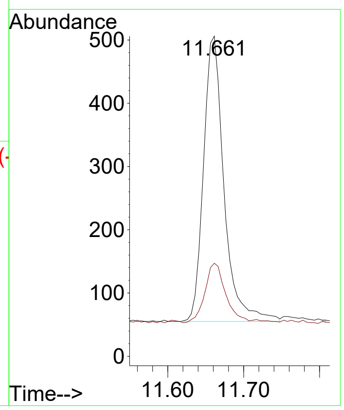


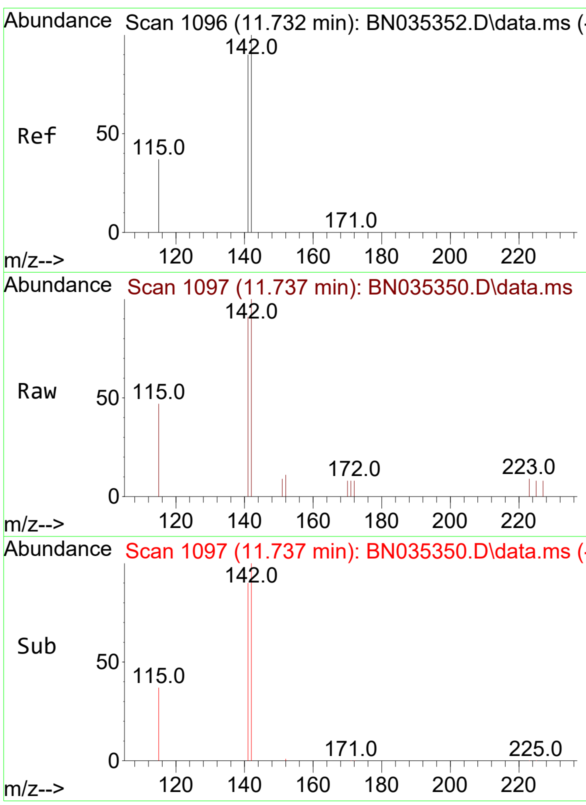
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 10
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

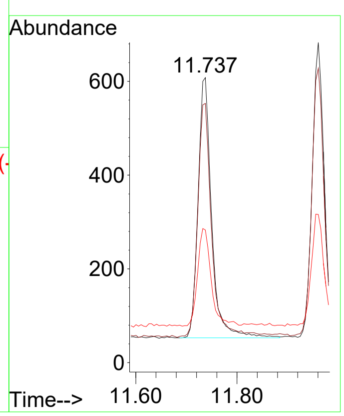


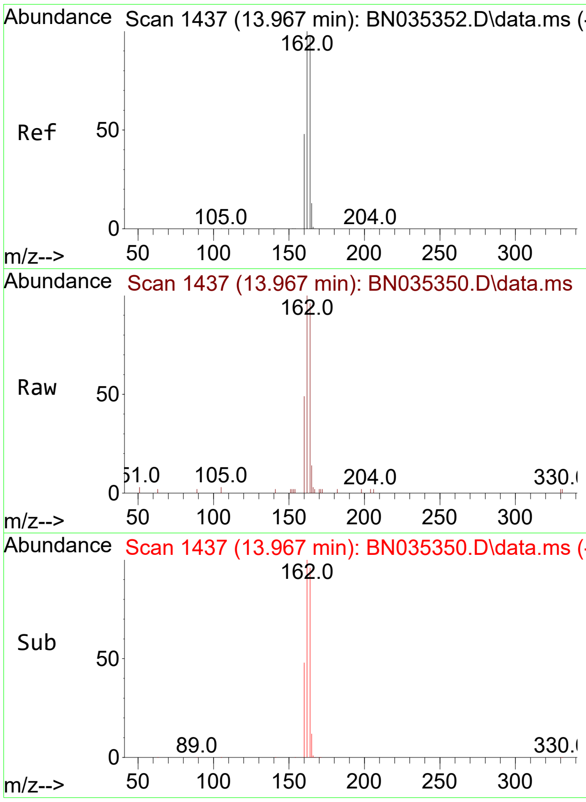


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



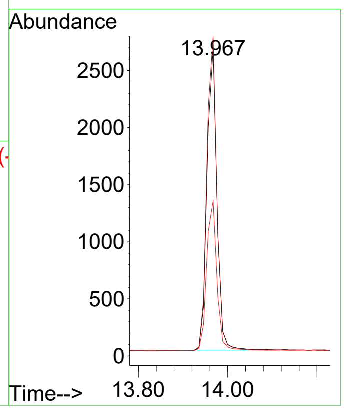


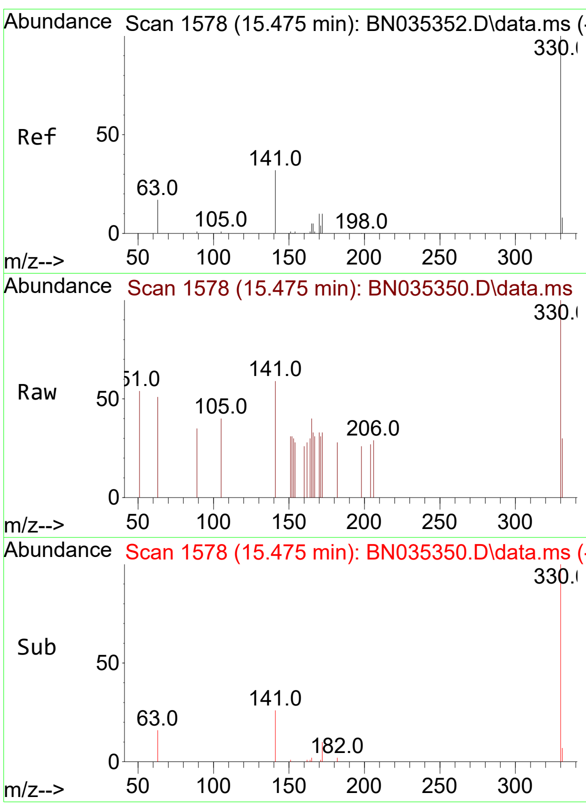
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

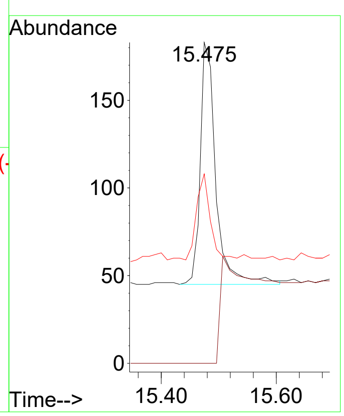


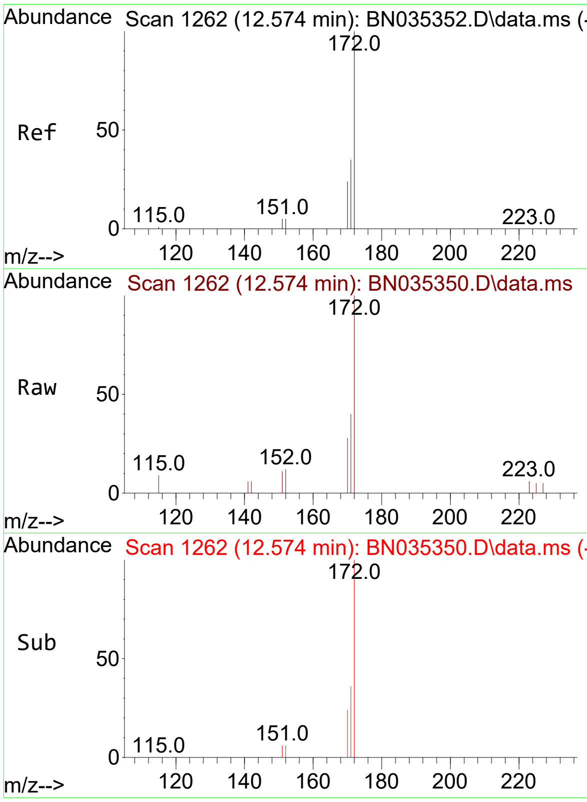


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





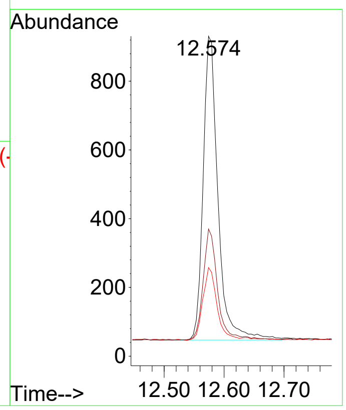
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1

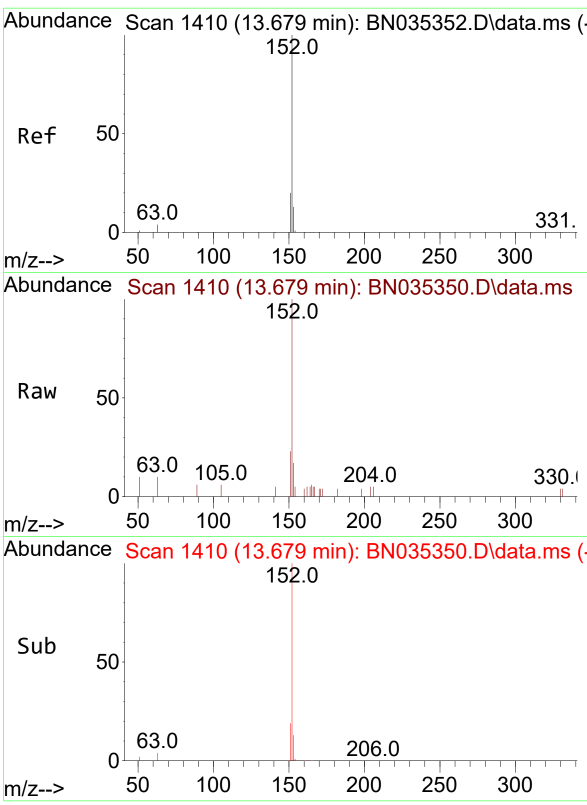
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

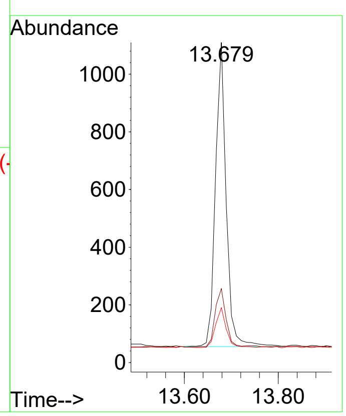


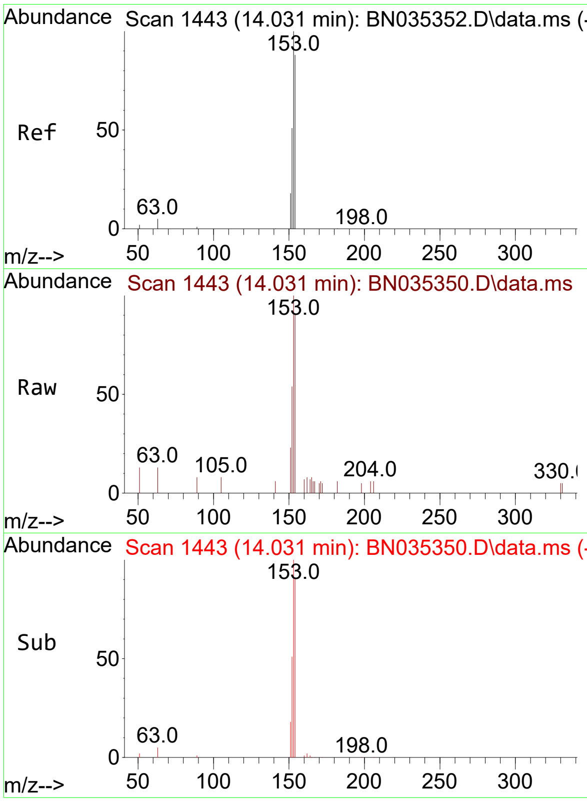


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



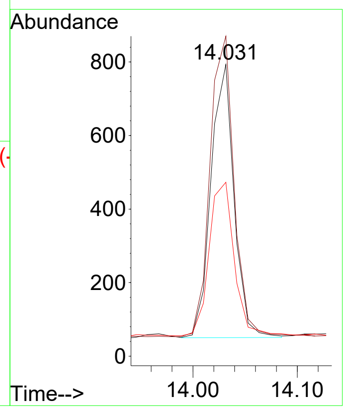


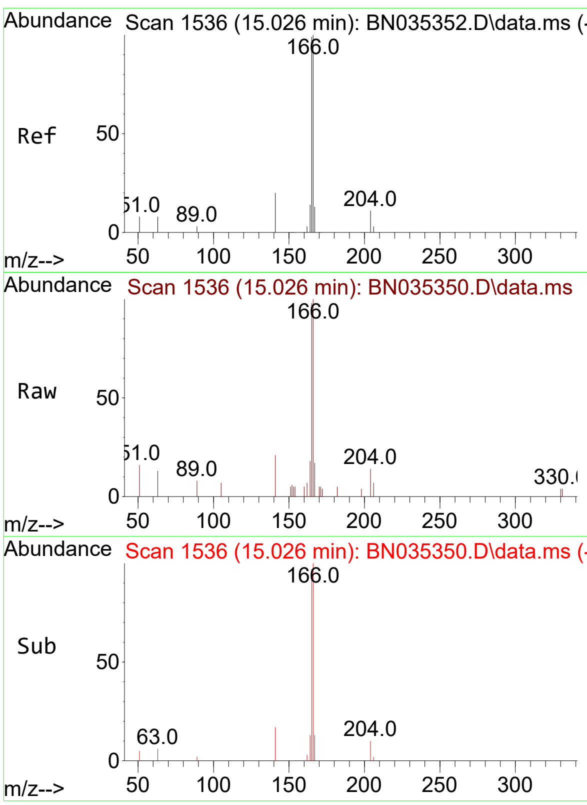
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

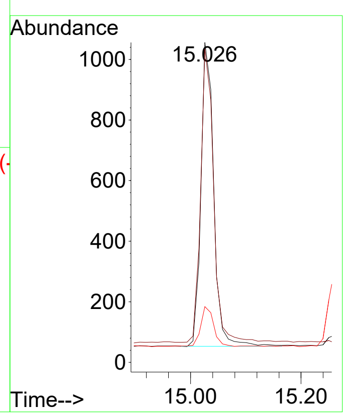


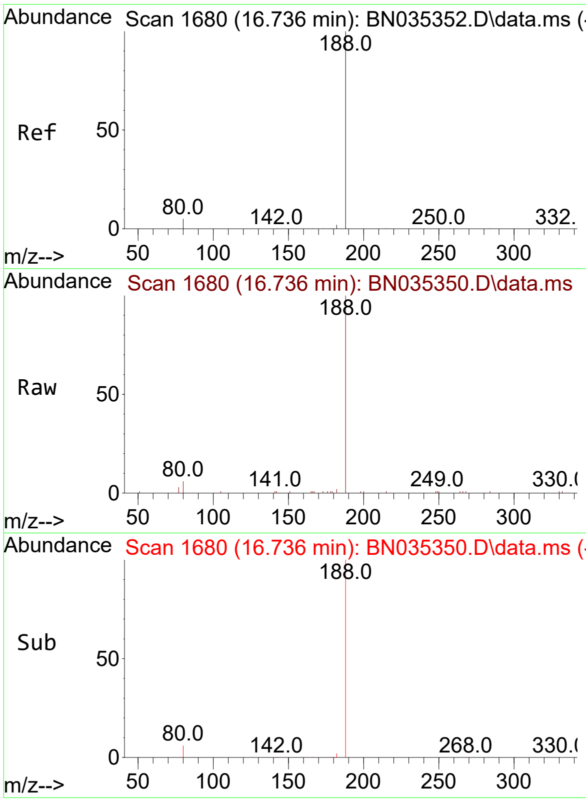


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





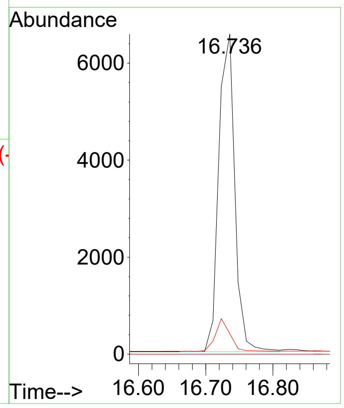
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1

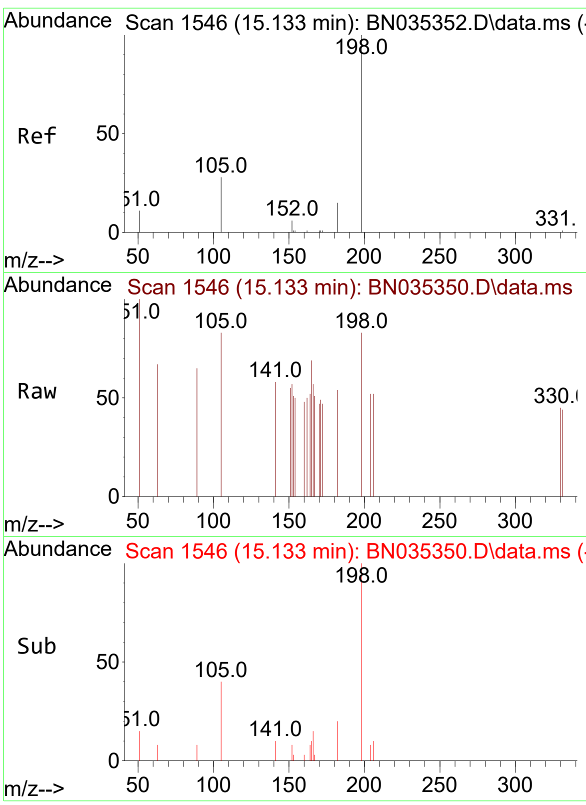
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

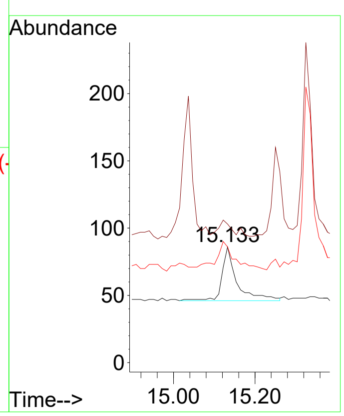


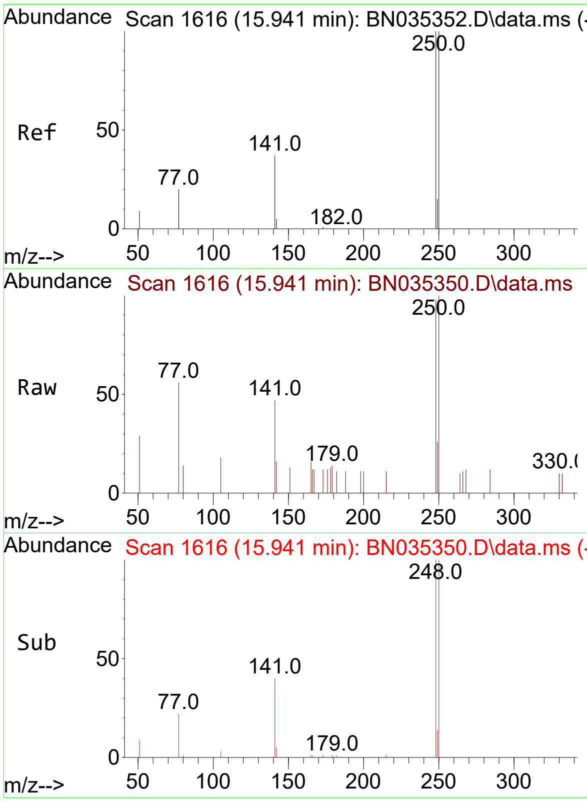


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#



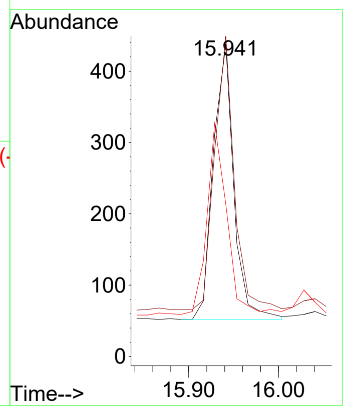


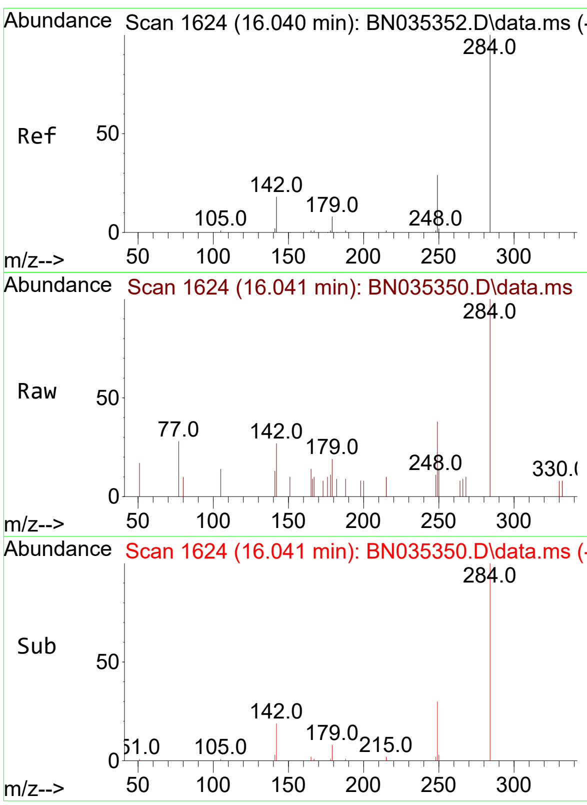
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

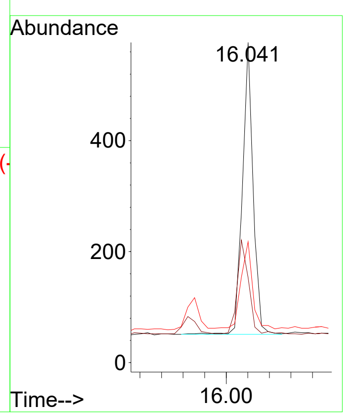


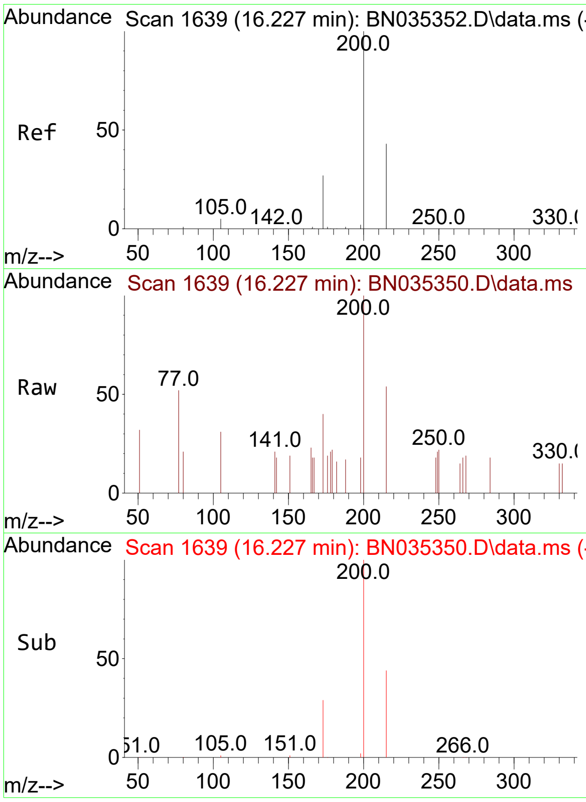


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





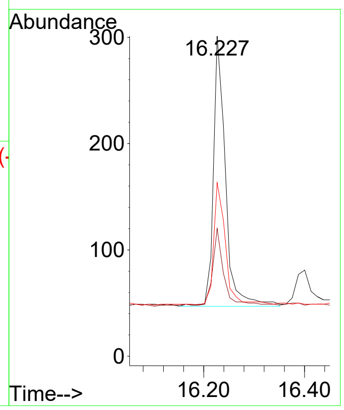
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1

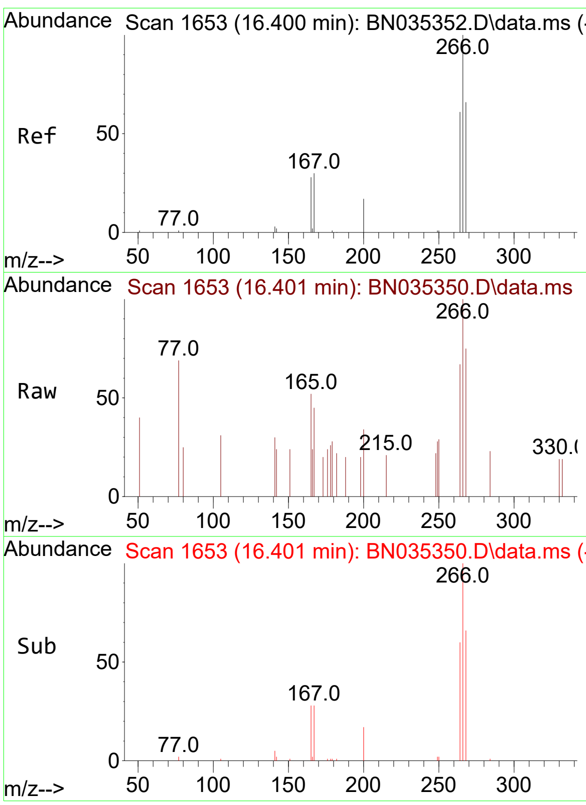
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

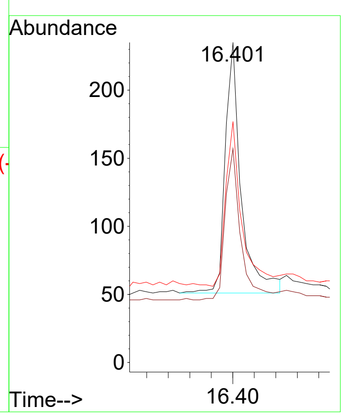


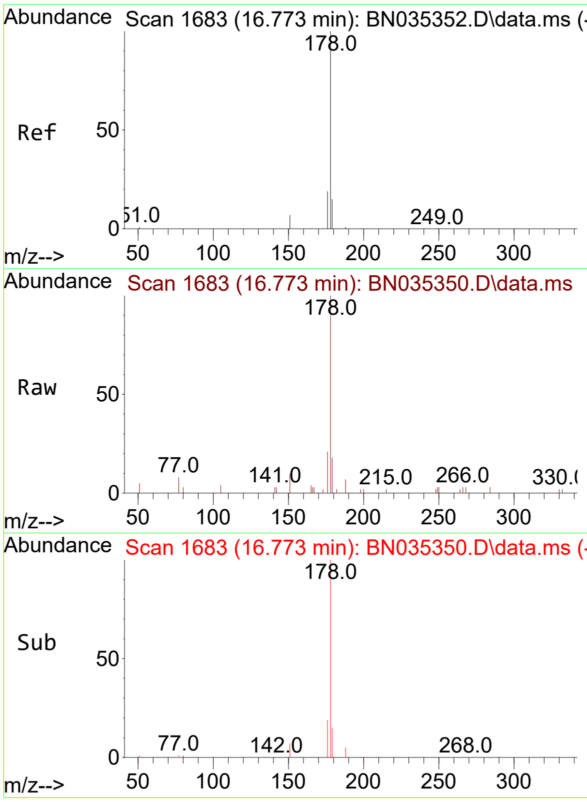


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



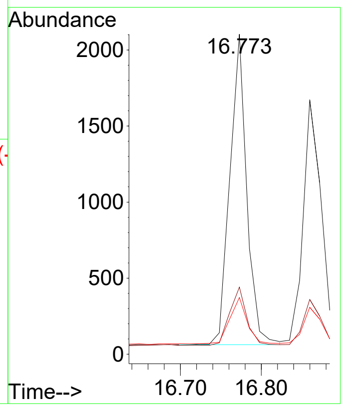


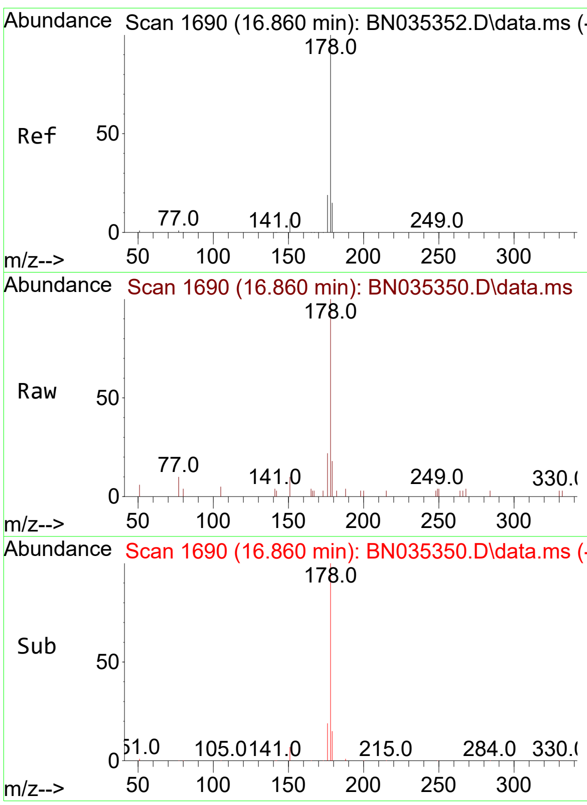
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

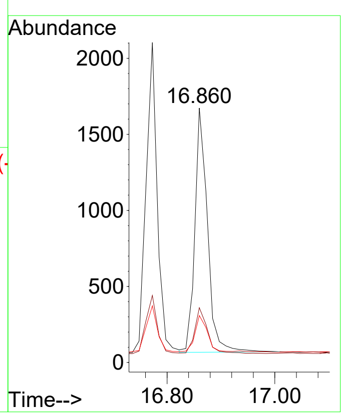


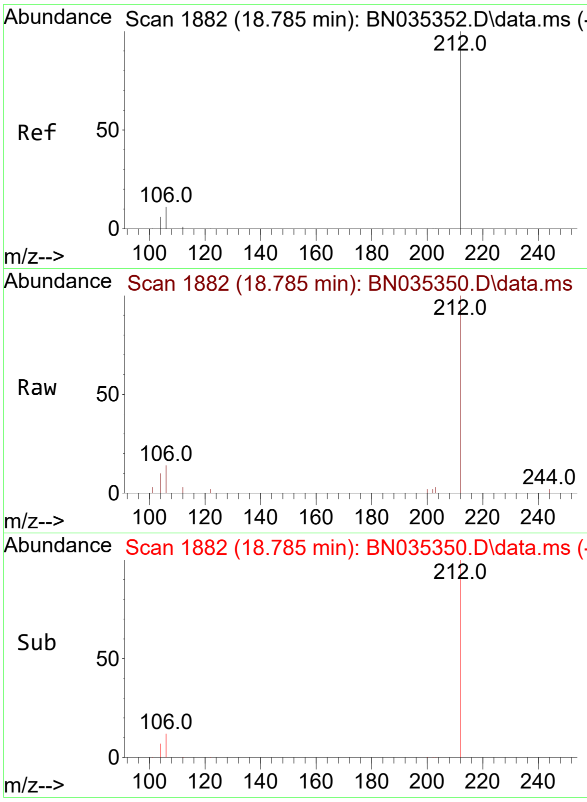


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



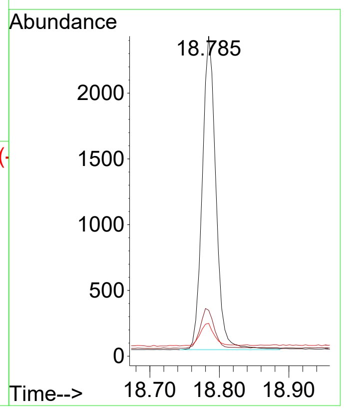


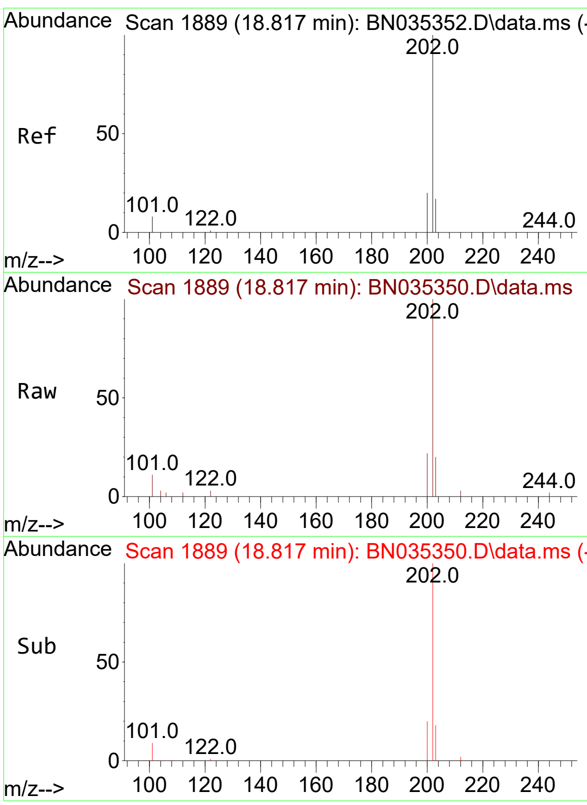
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

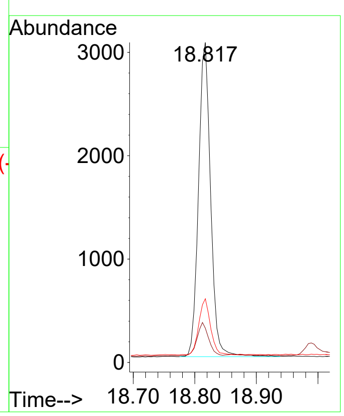


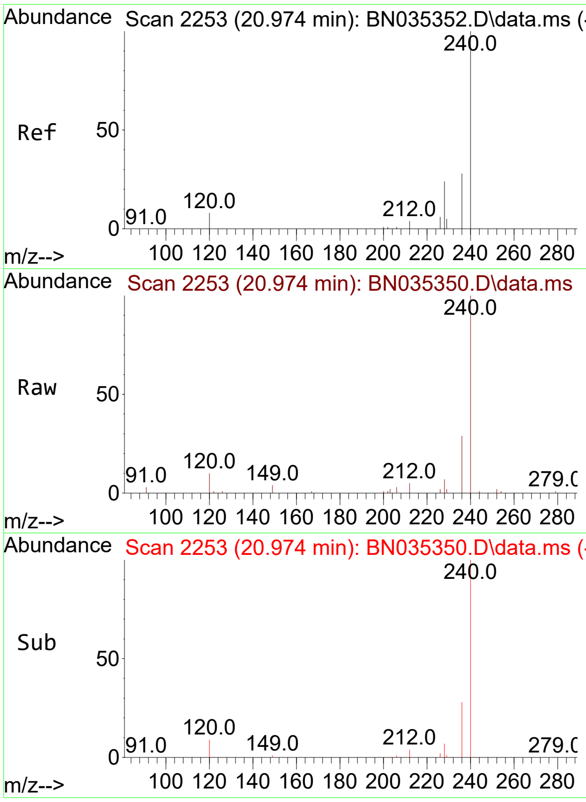


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



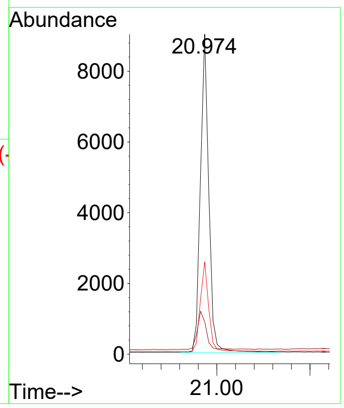


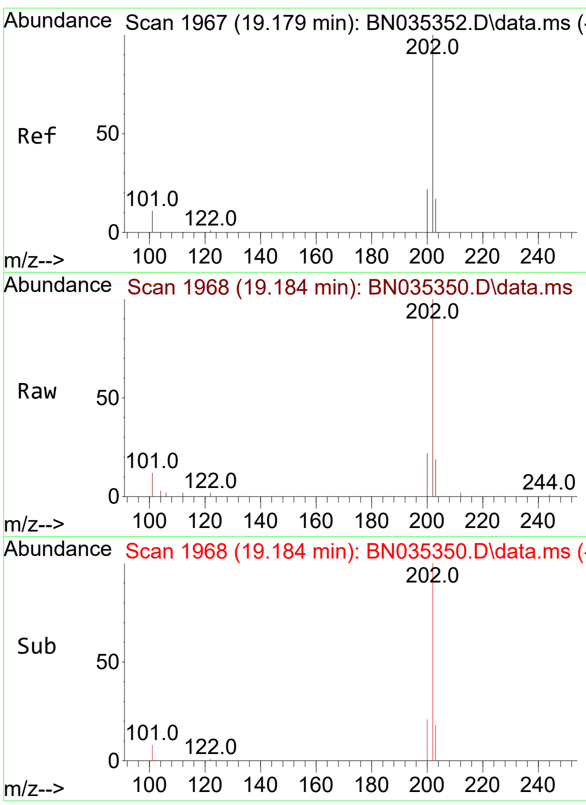
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

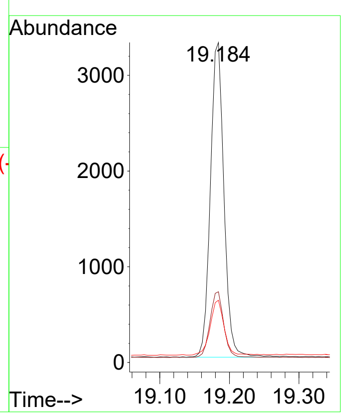


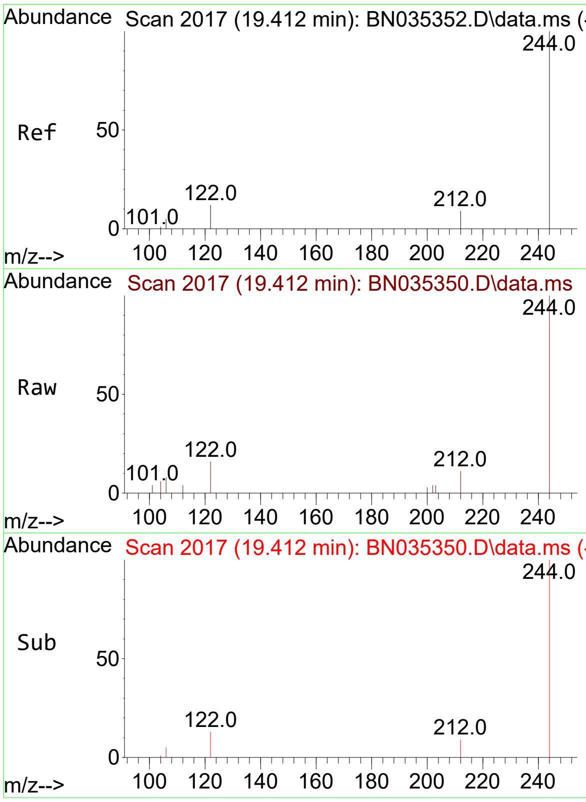


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





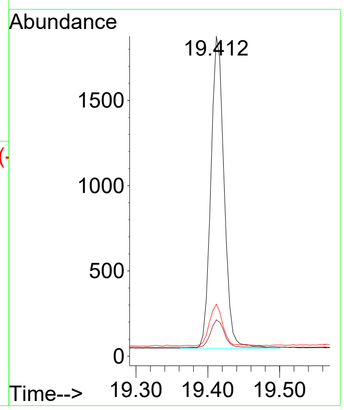
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2

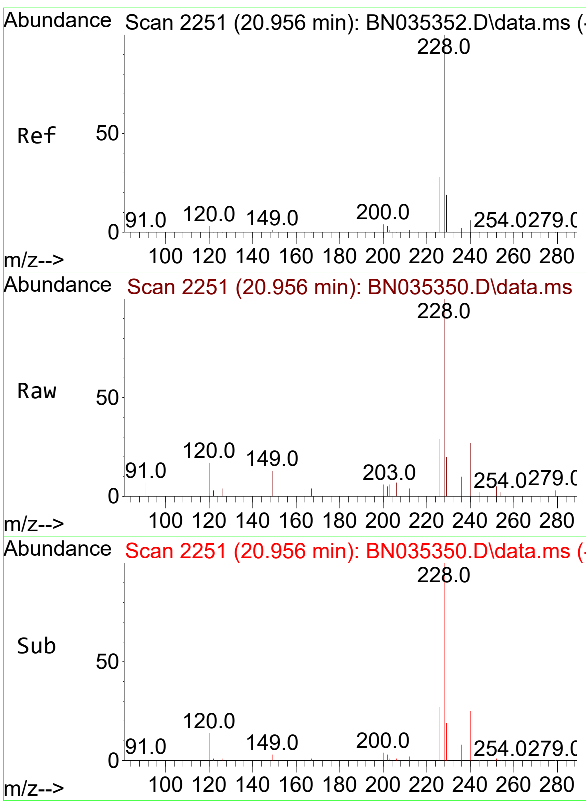
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

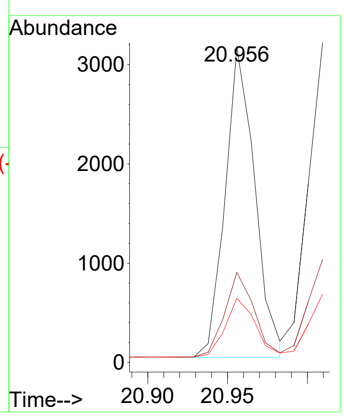


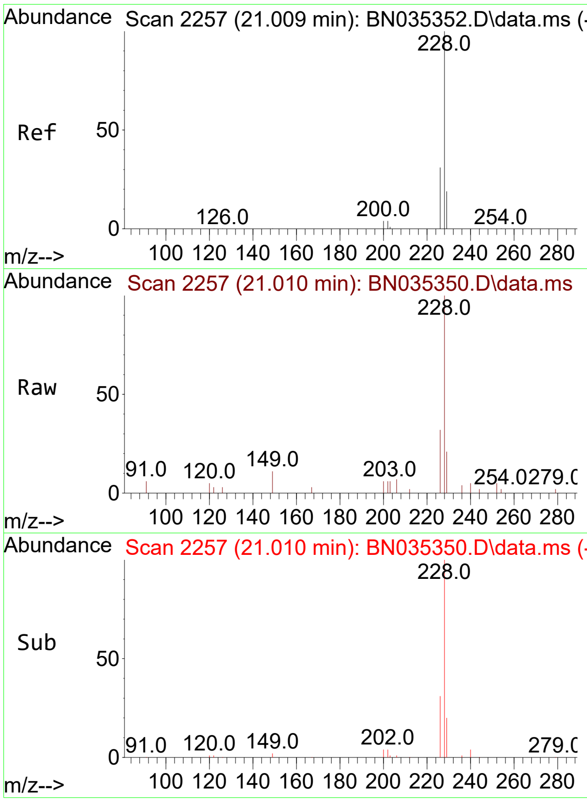


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



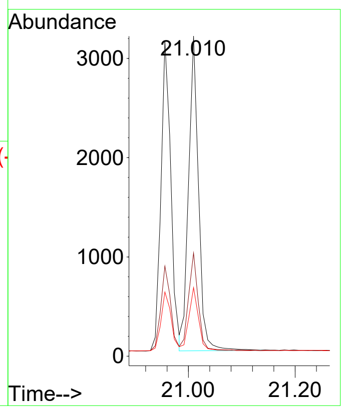


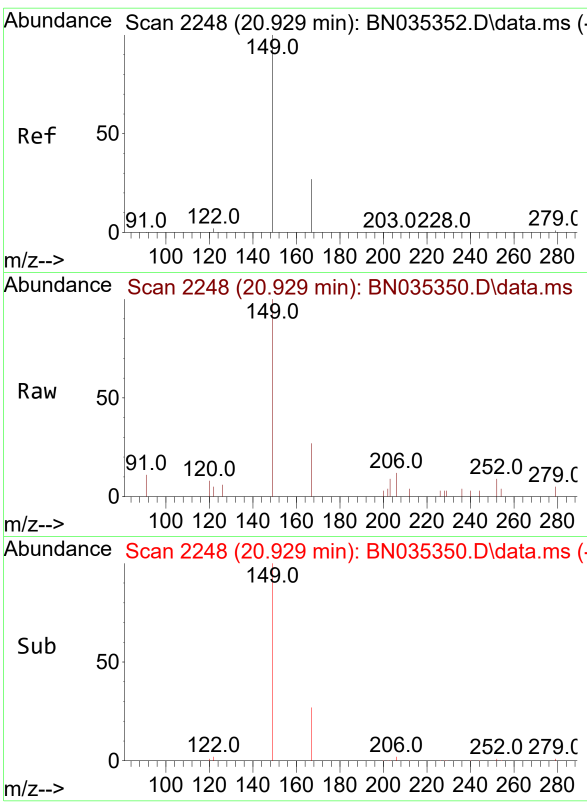
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

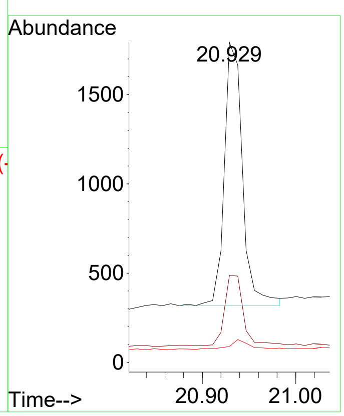


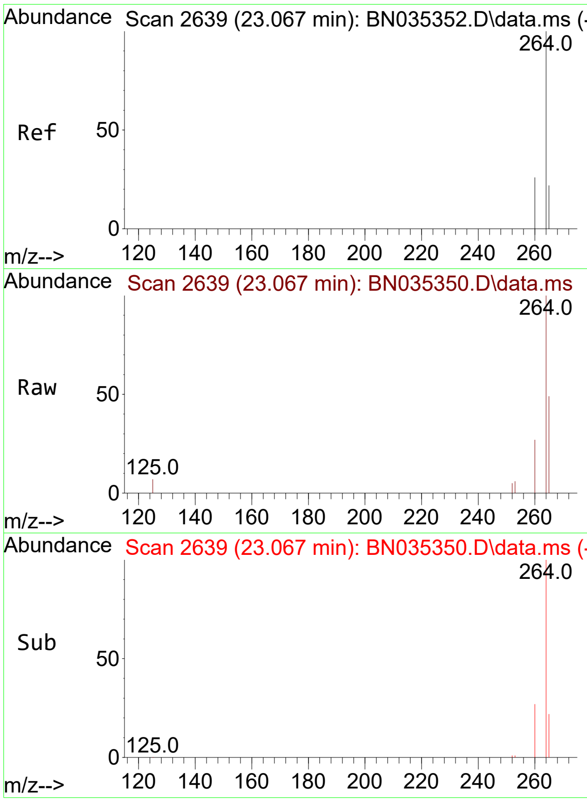


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



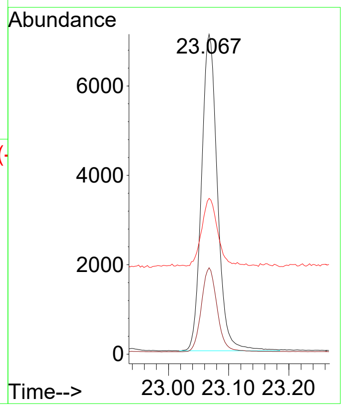


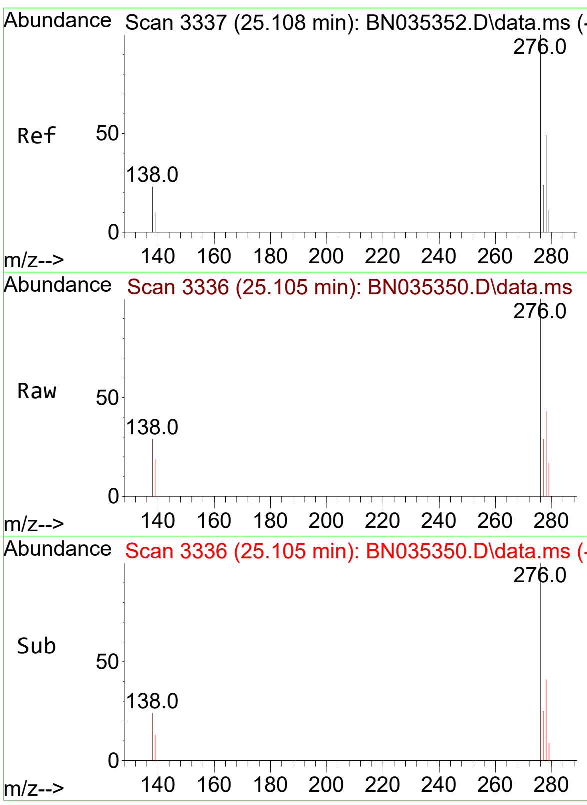
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

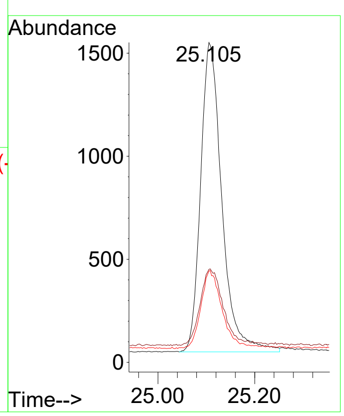


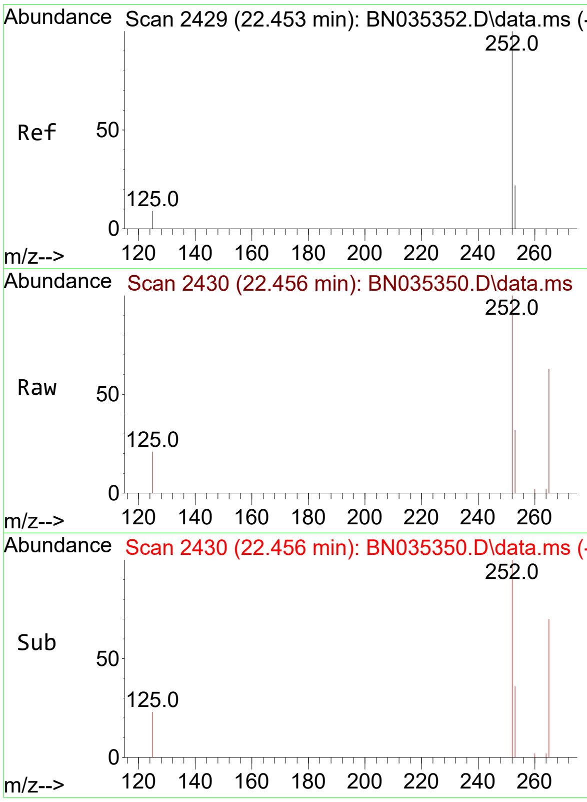


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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



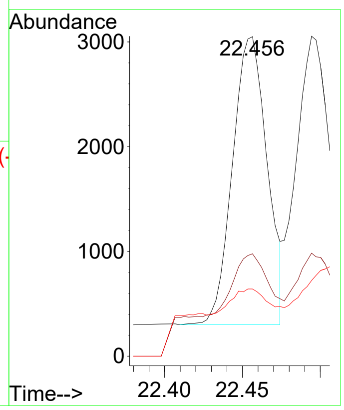


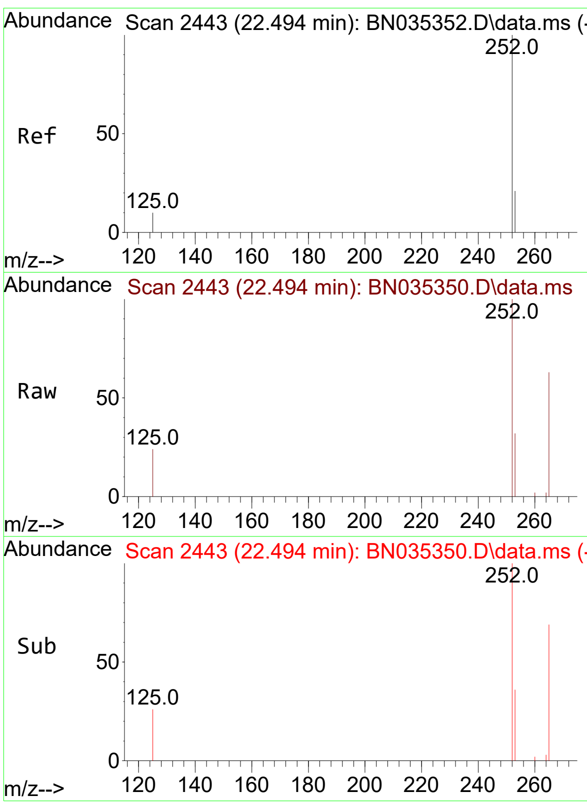
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

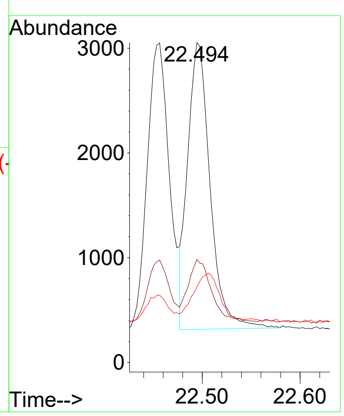


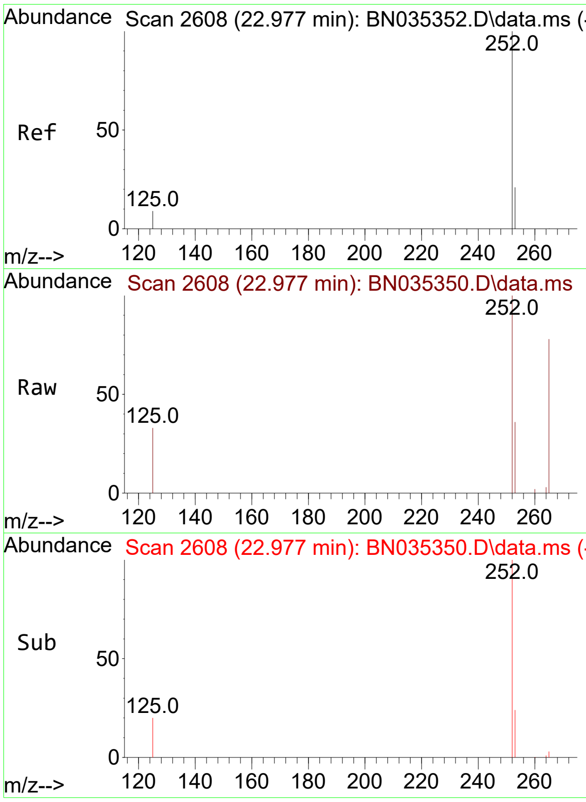


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#



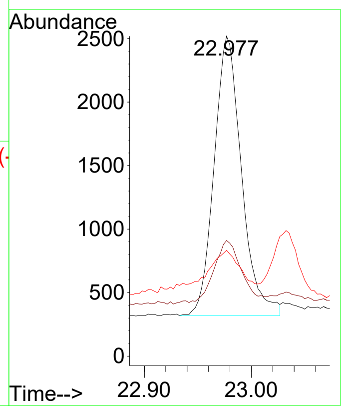


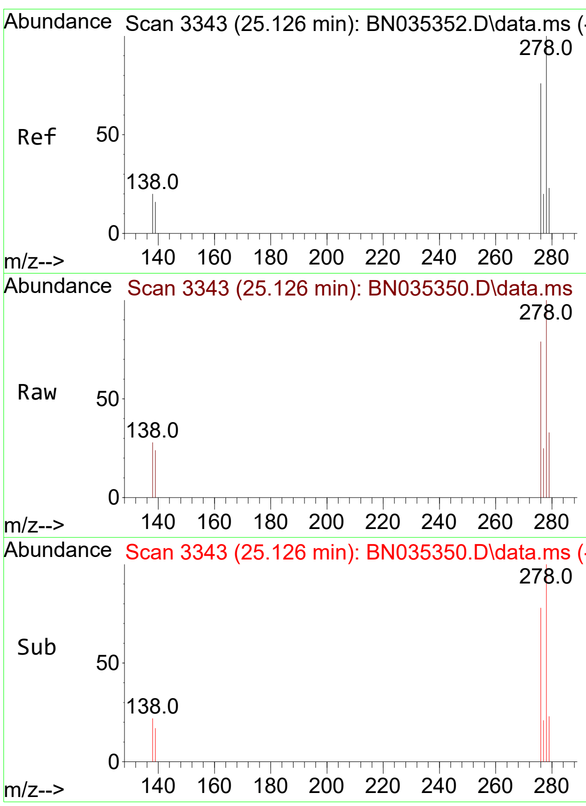
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min   Scan# 2(
Delta R.T.   0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

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#

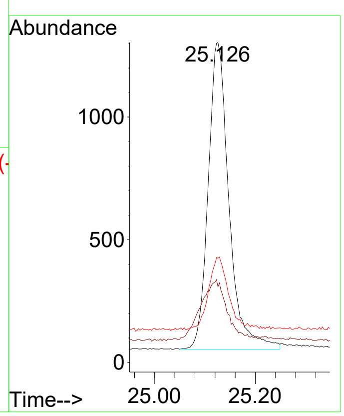


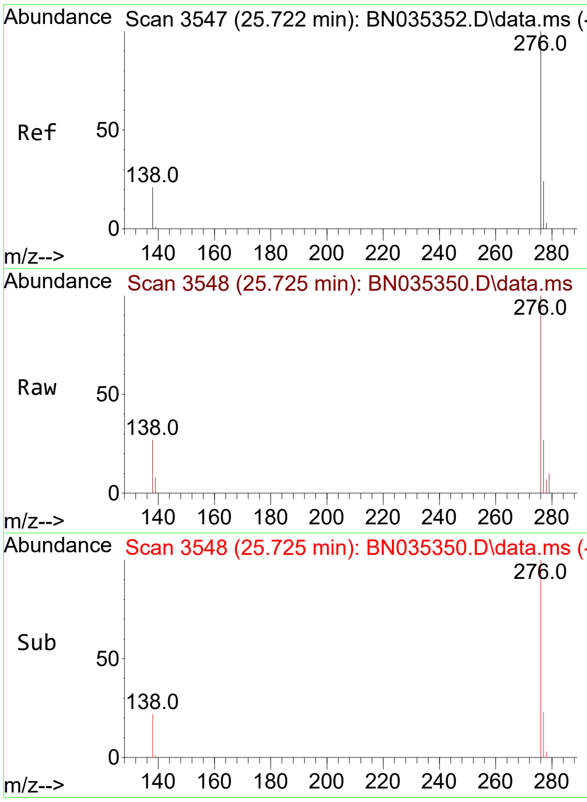


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min   Scan# 3343
Delta R.T.   0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024   15:34

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#



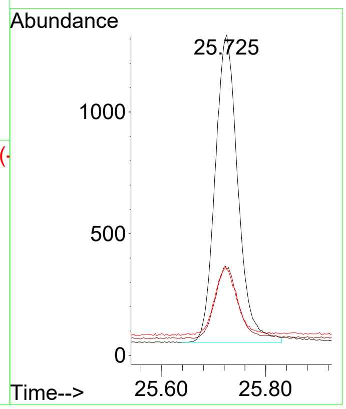


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3!
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

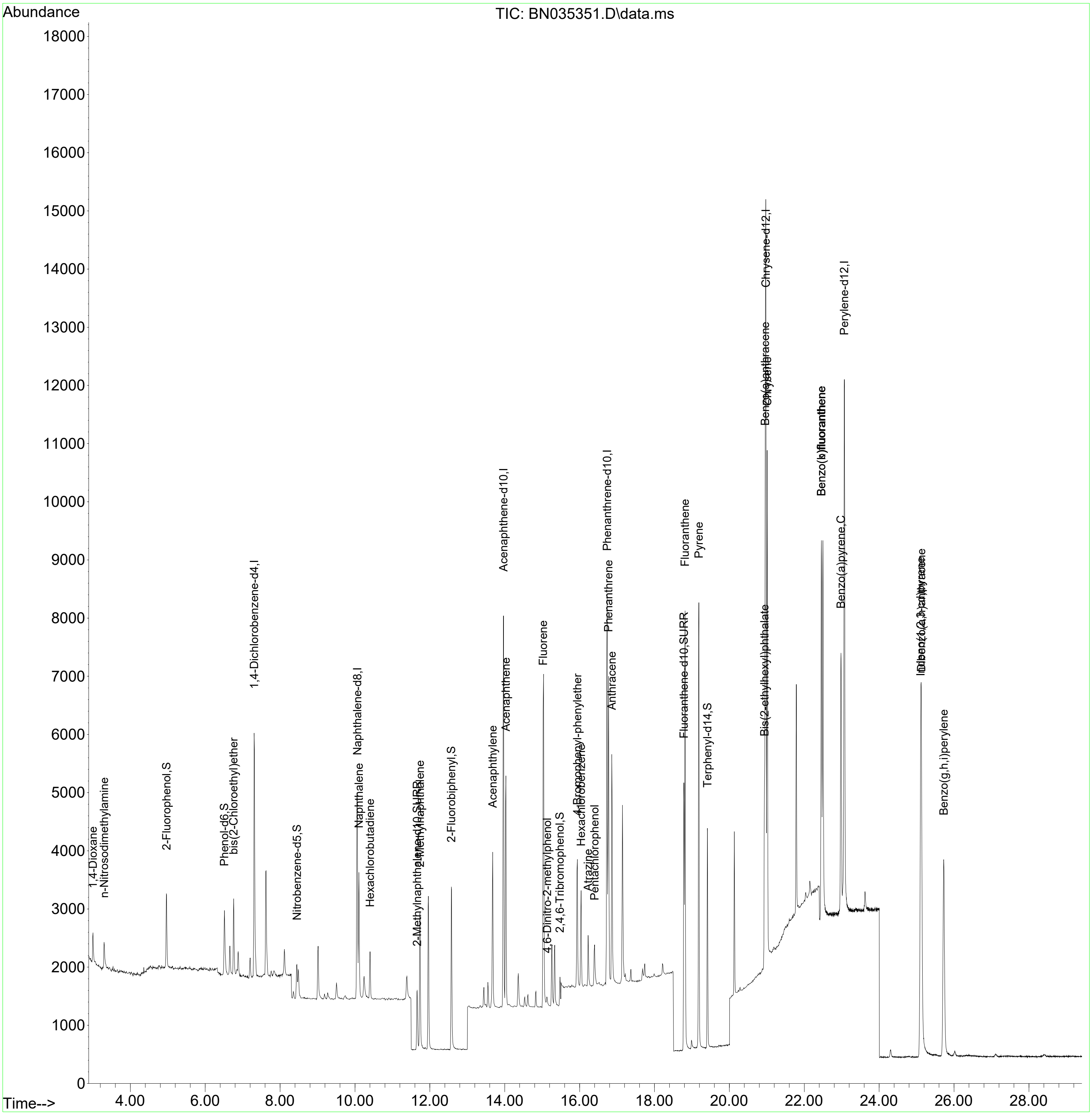
(#) = qualifier out of range (m) = manual integration (+) = signals summed

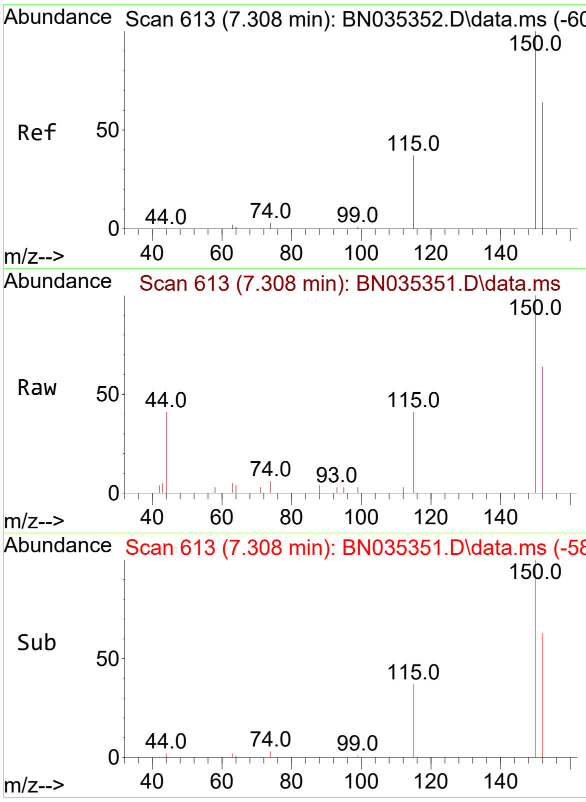
Quantitation Report (Not Reviewed)

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



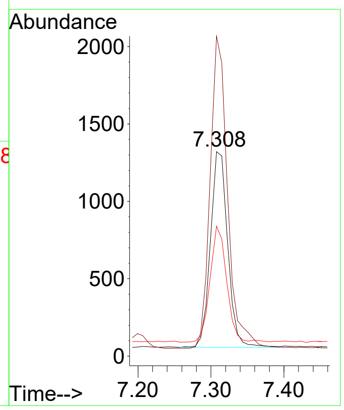


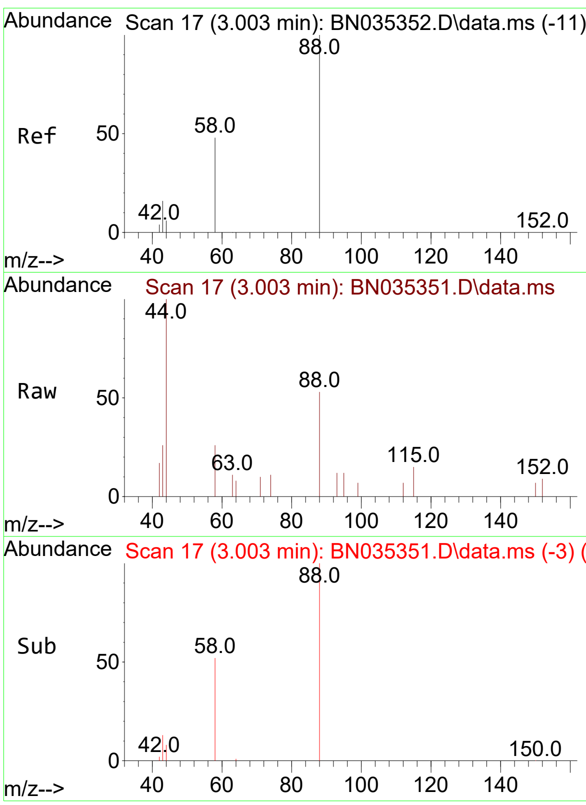
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

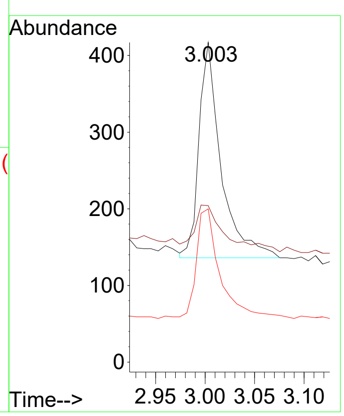


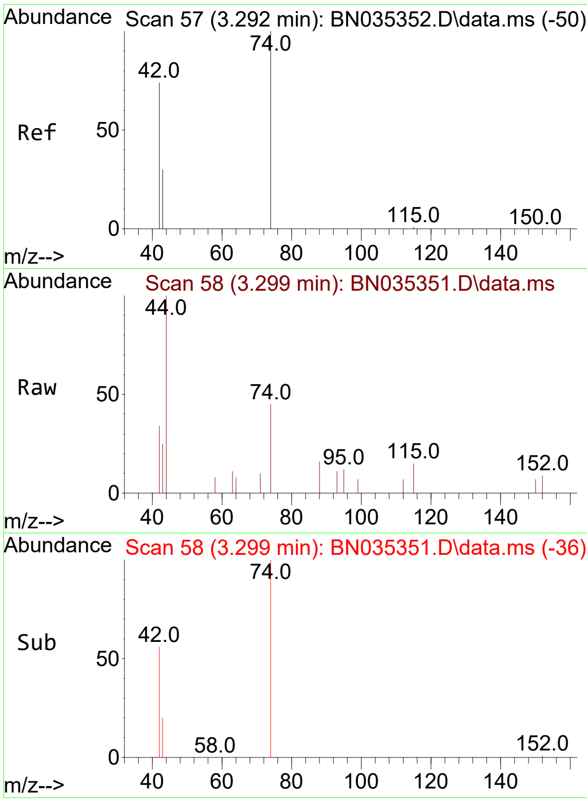


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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





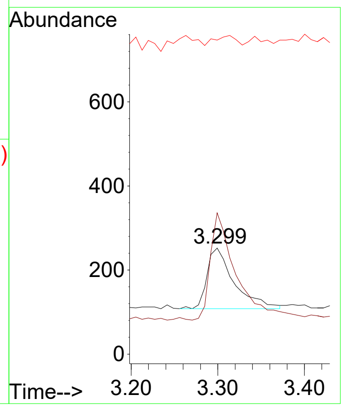
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5

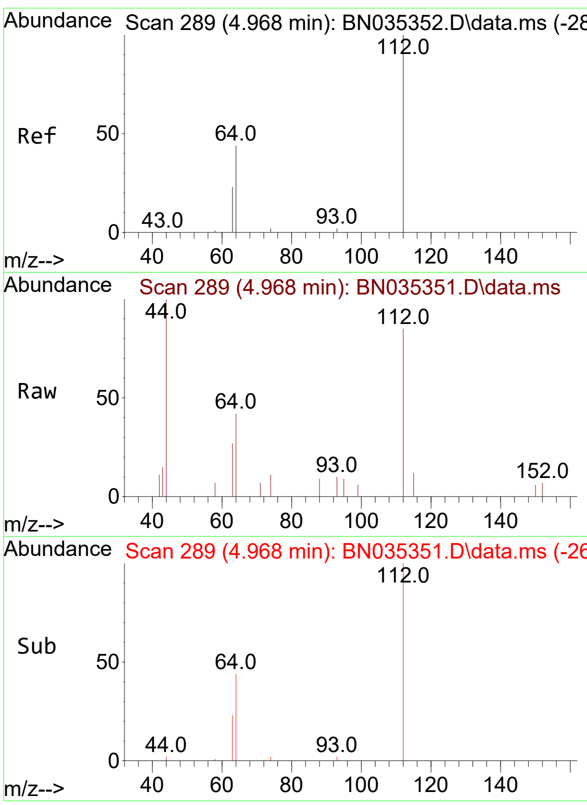
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

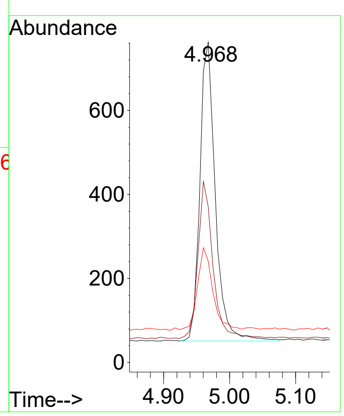


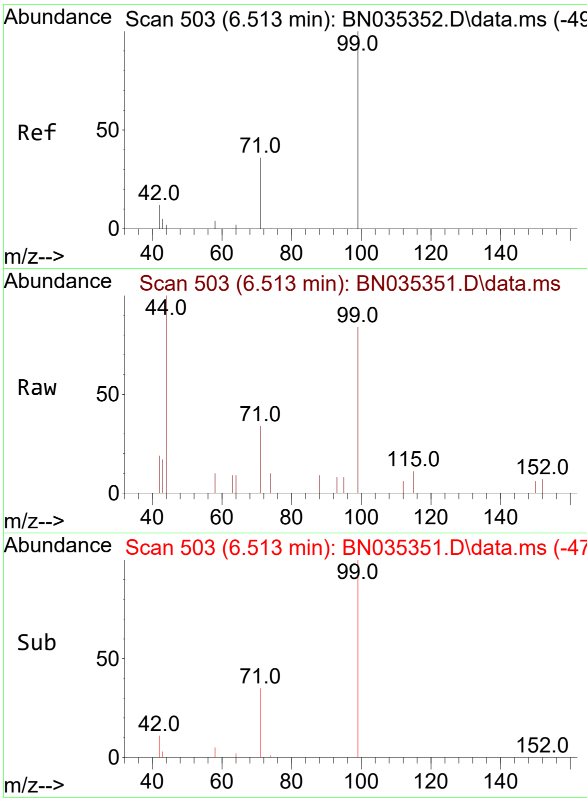


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



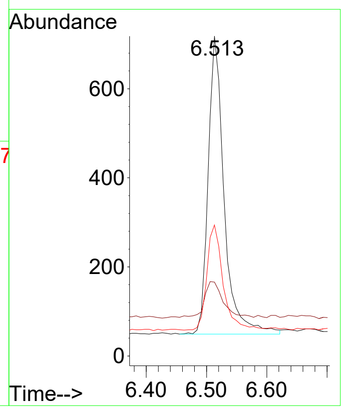


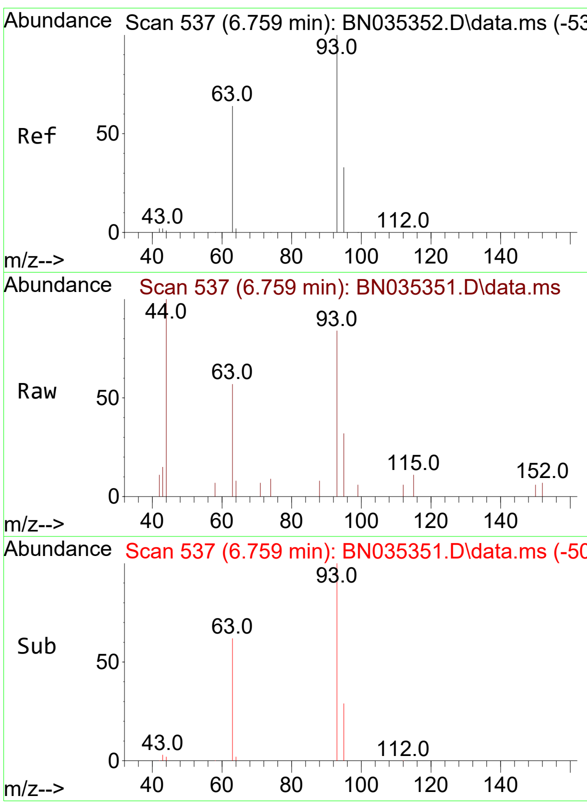
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 50
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

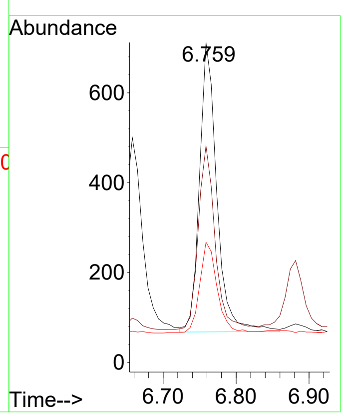


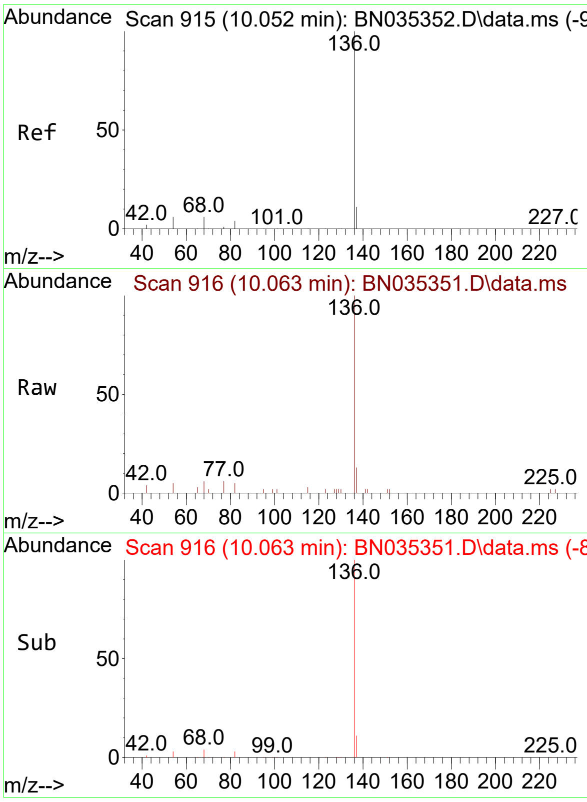


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



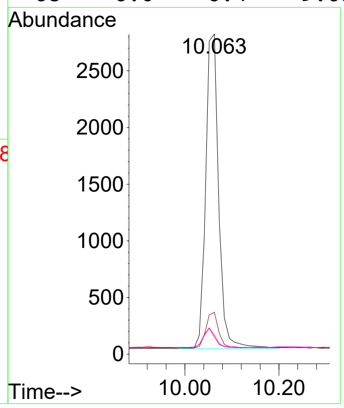


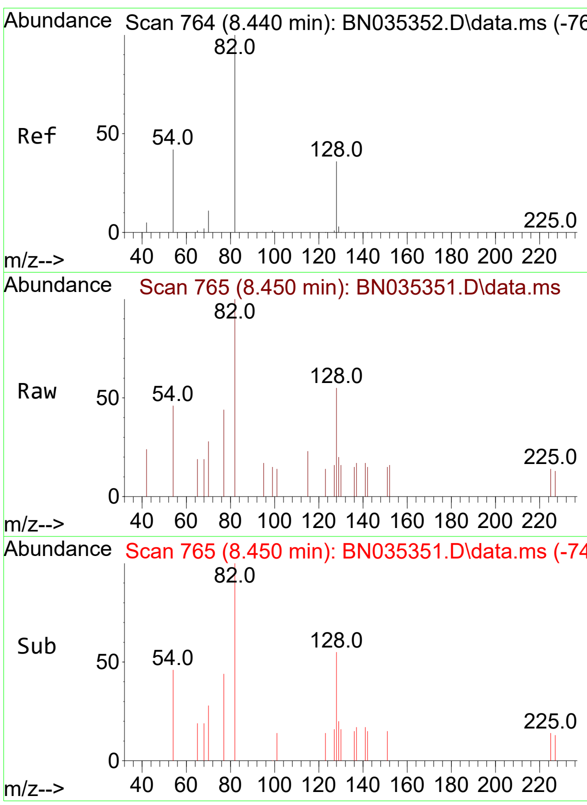
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min   Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

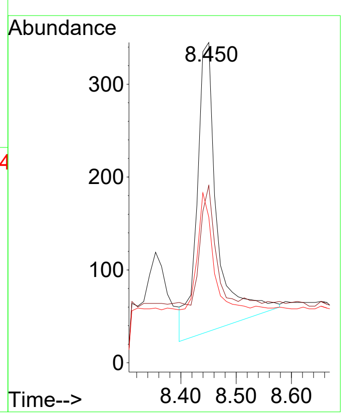


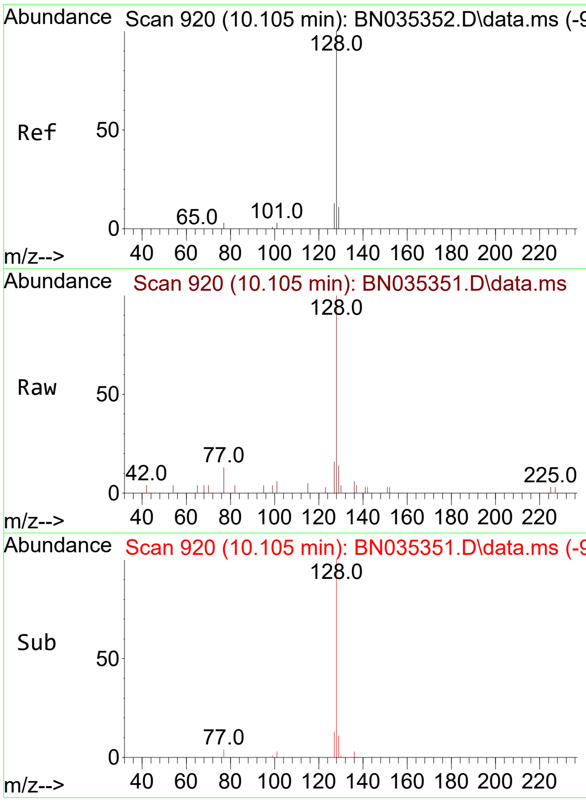


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min   Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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





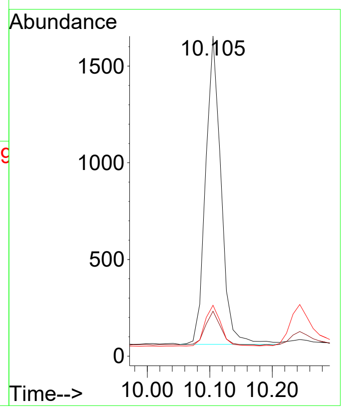
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9

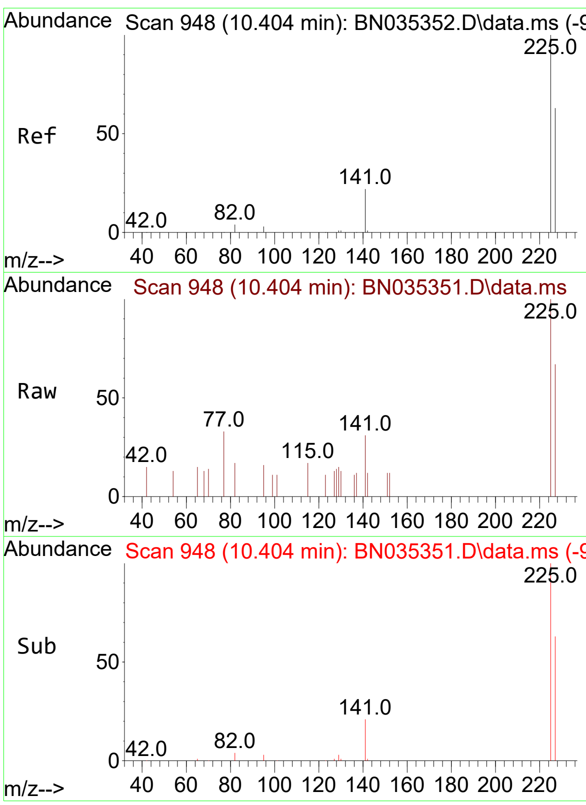
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

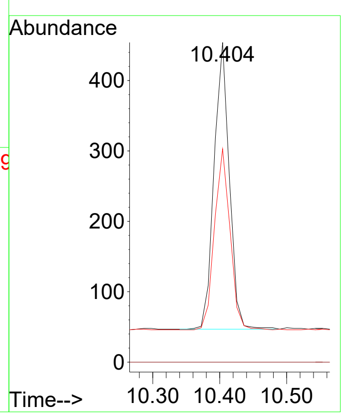


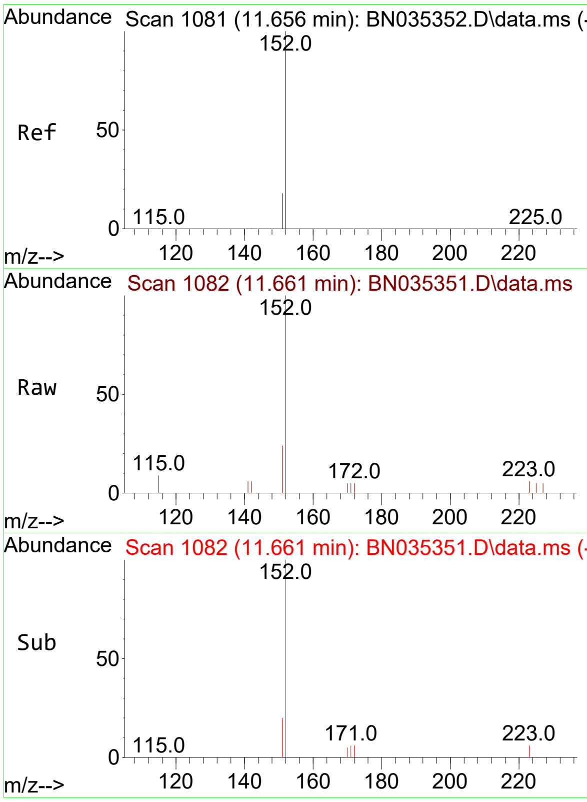


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



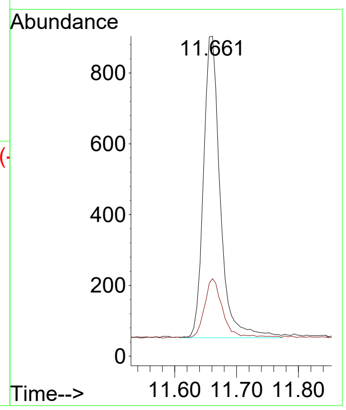


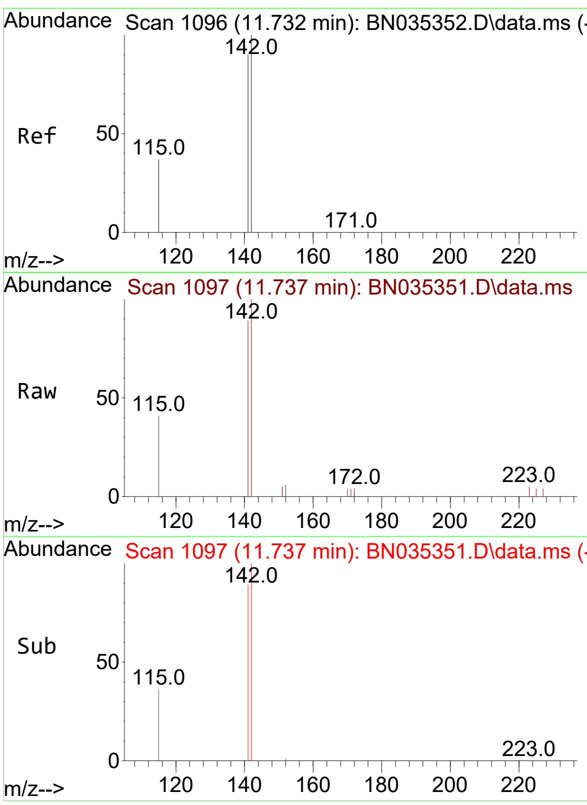
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 10
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

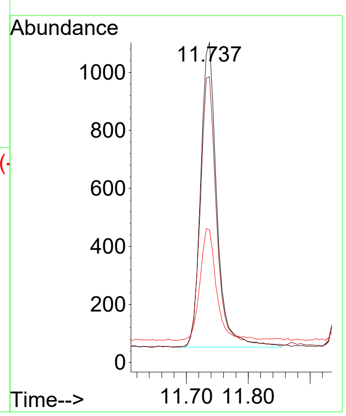


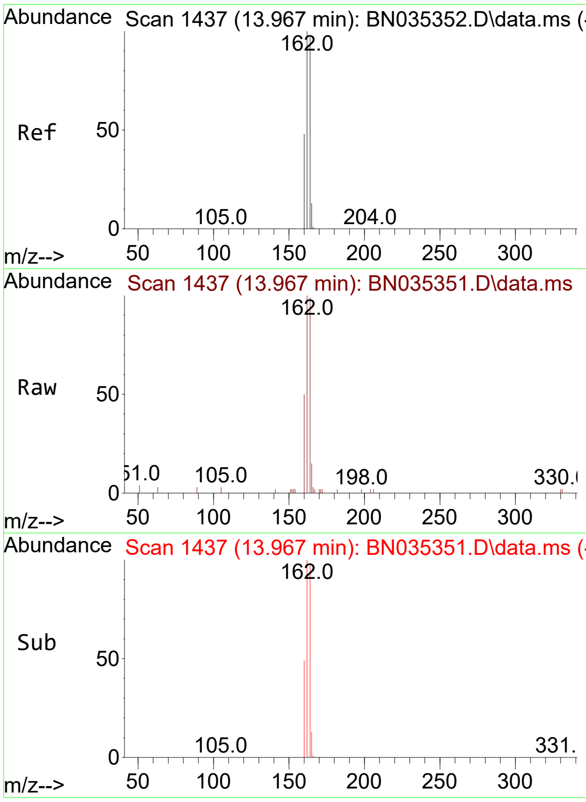


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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





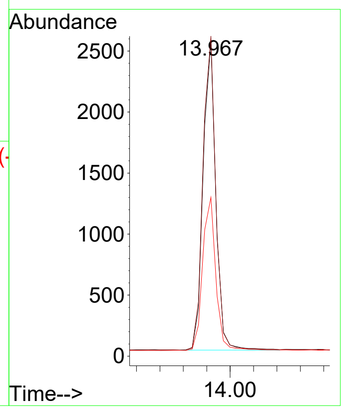
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14

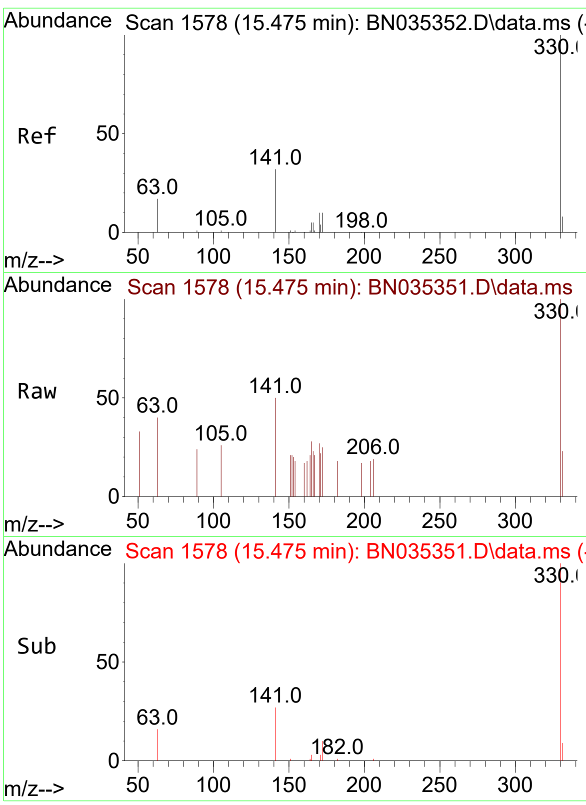
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

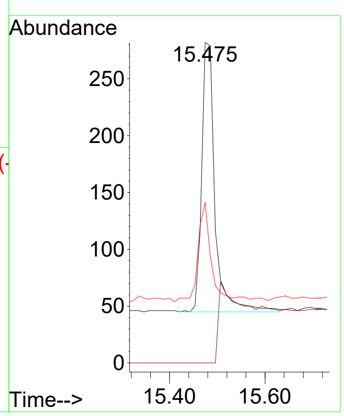


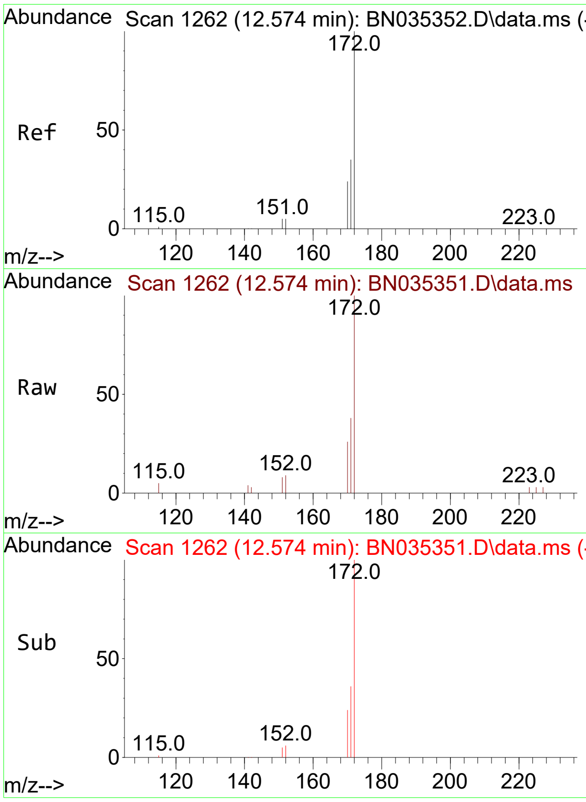


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



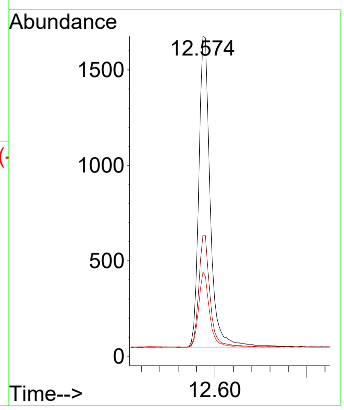


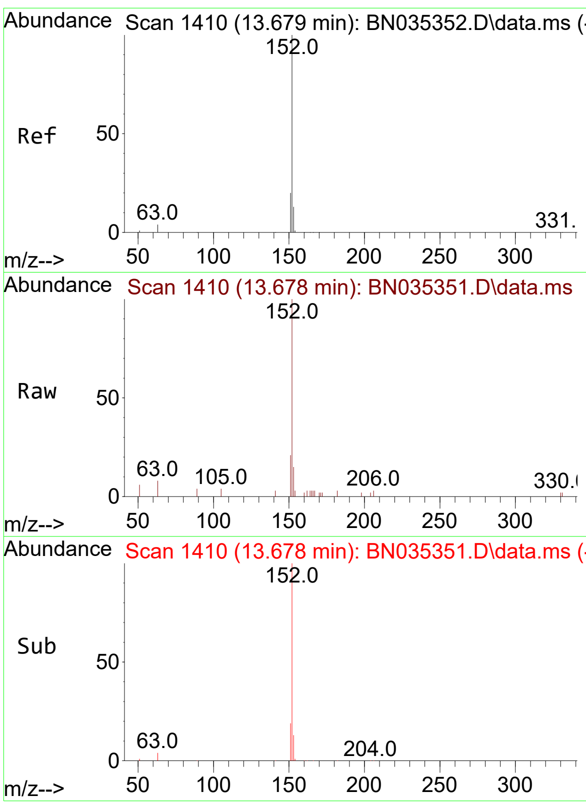
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

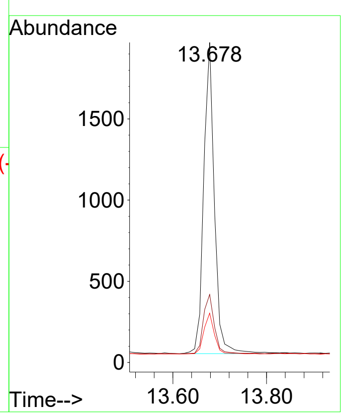


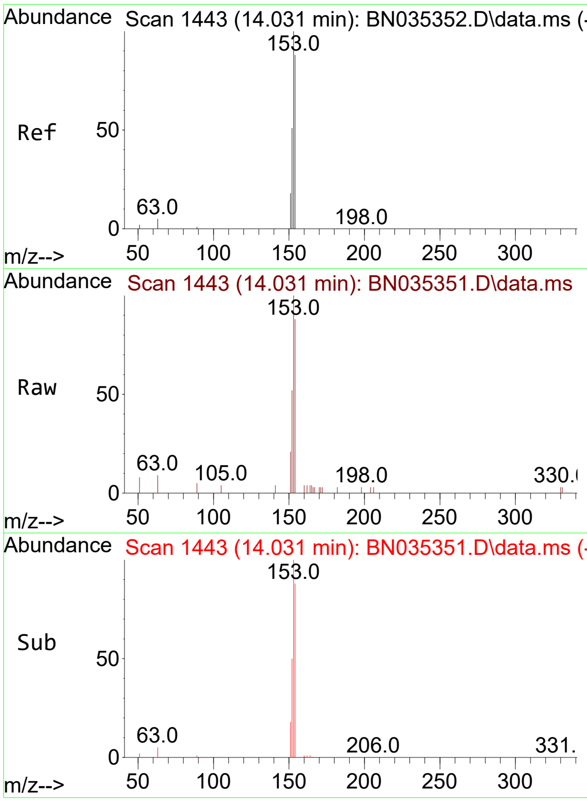


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



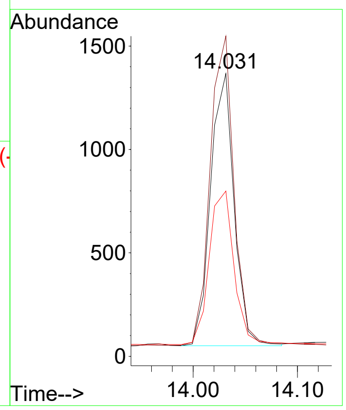


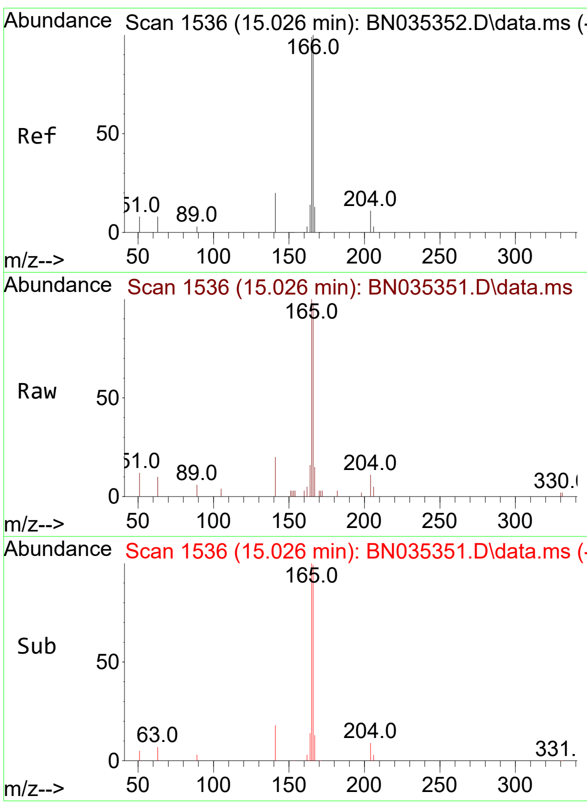
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

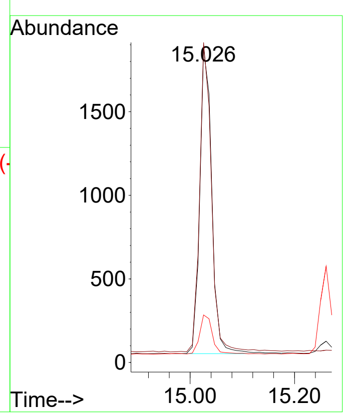


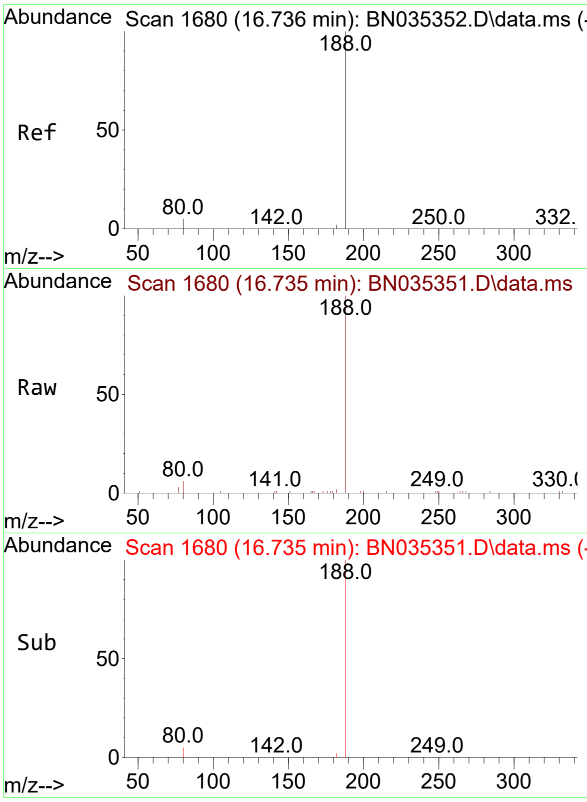


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



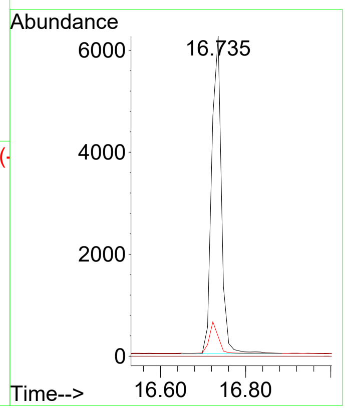


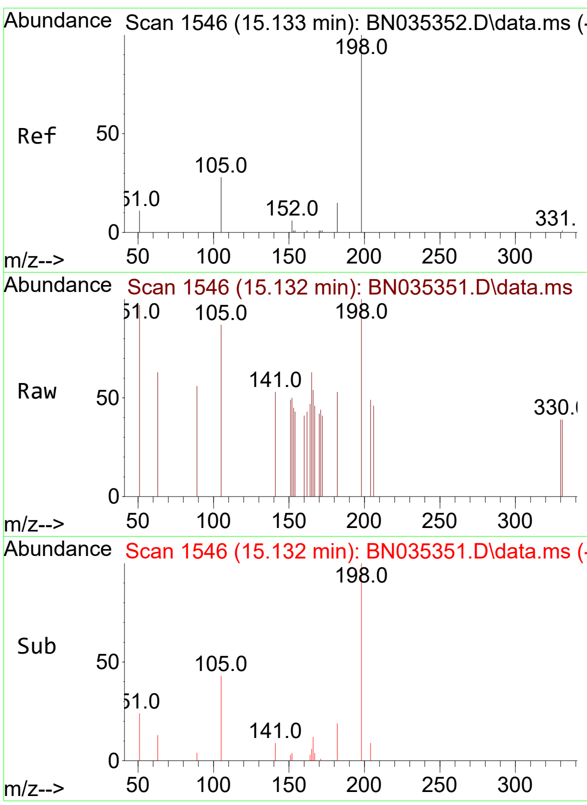
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

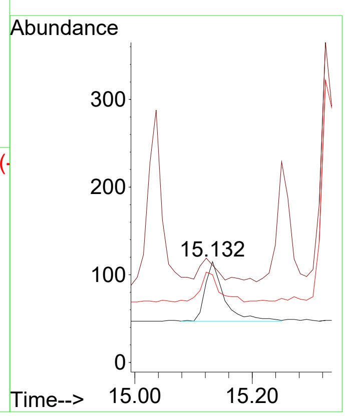


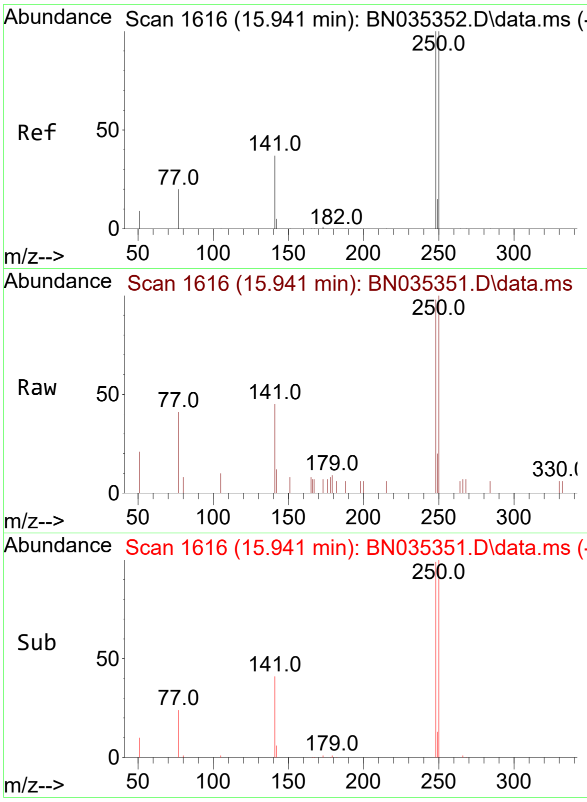


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#



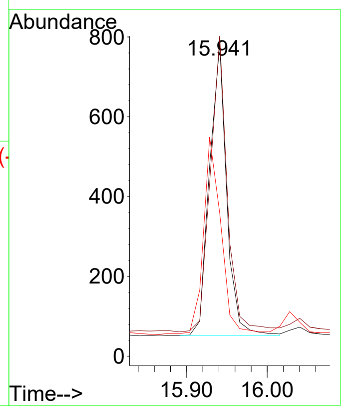


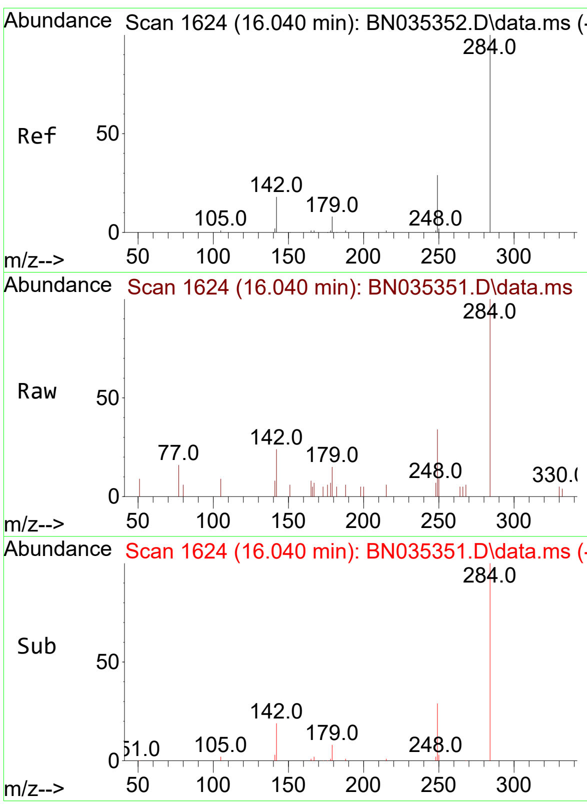
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min   Scan# 1
Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024   16:10

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

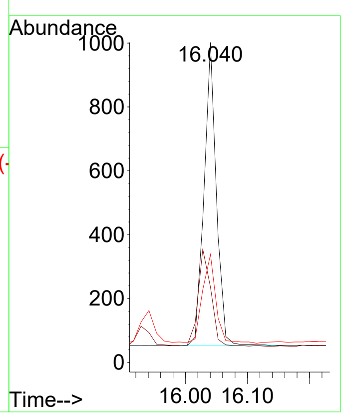


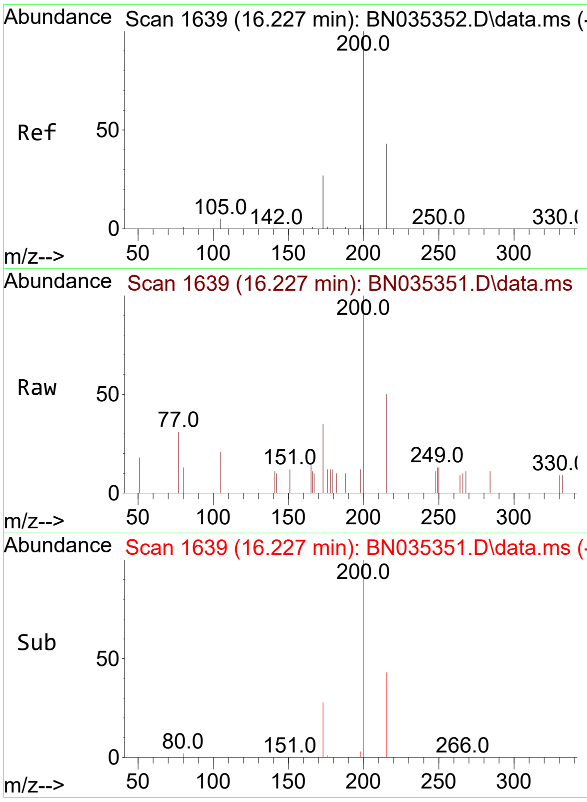


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min   Scan# 1624
Delta R.T.   -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024   16:10

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





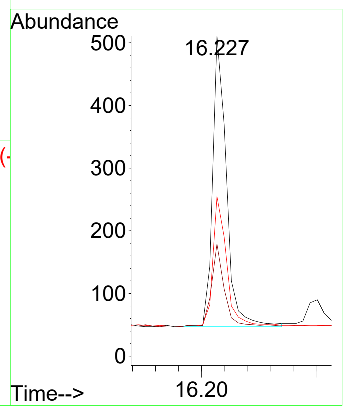
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1

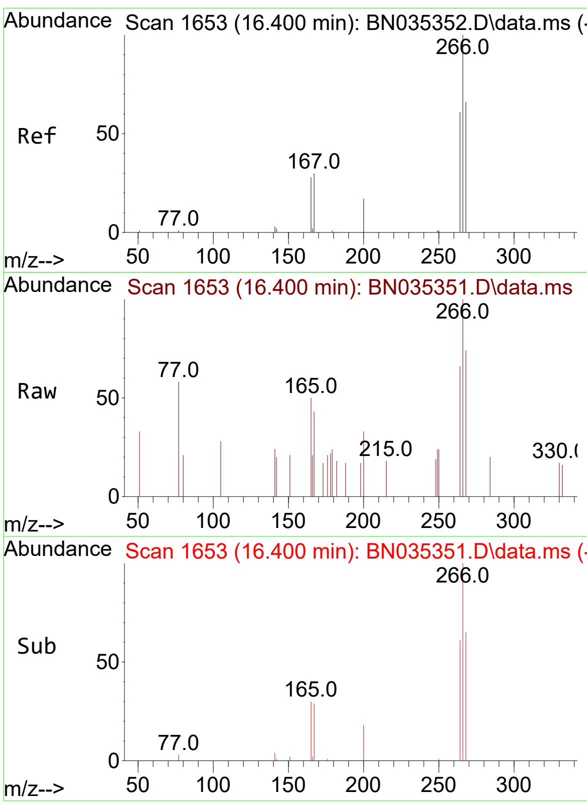
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

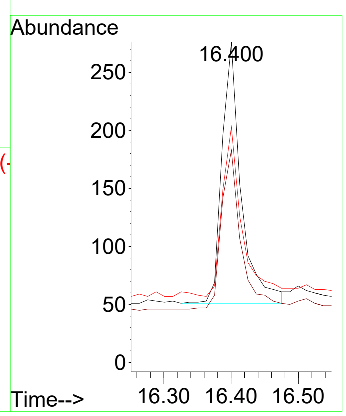


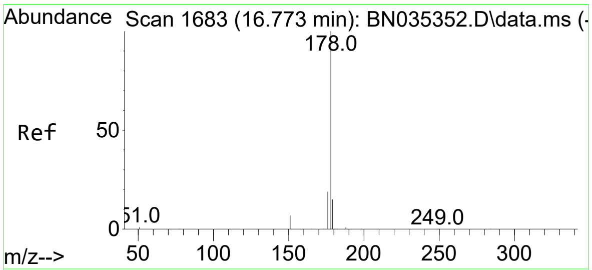


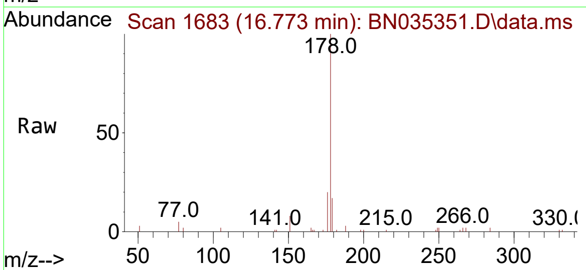
#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

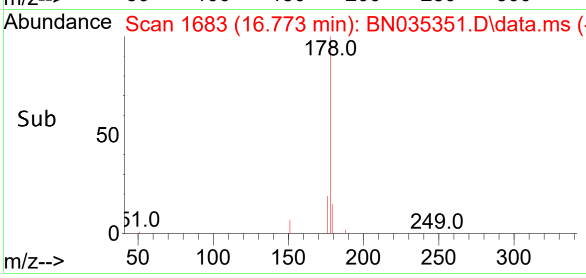
Tgt Ion:266 Resp: 445

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







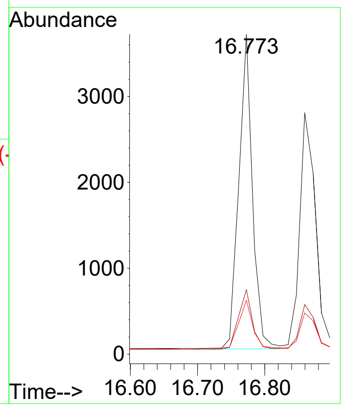


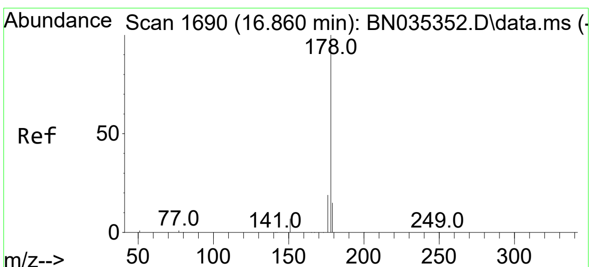
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

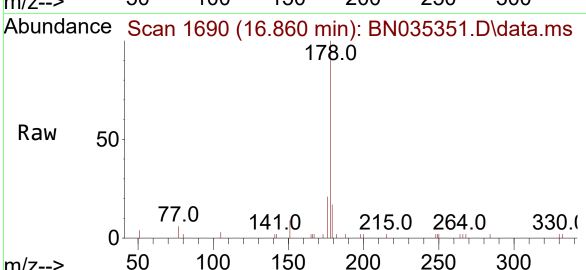
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

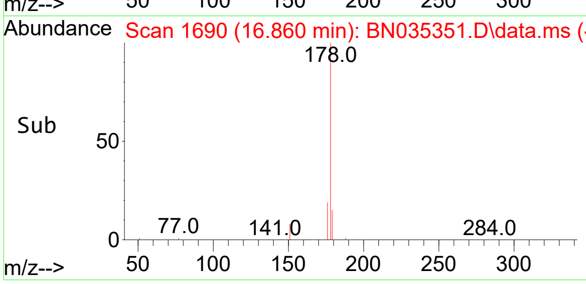
Tgt Ion:178 Resp: 5182

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





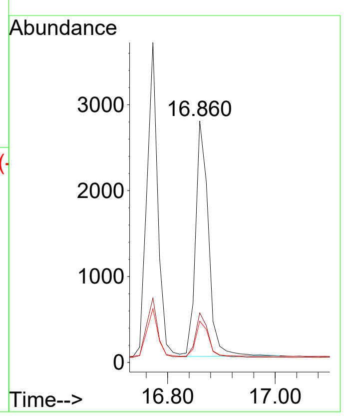


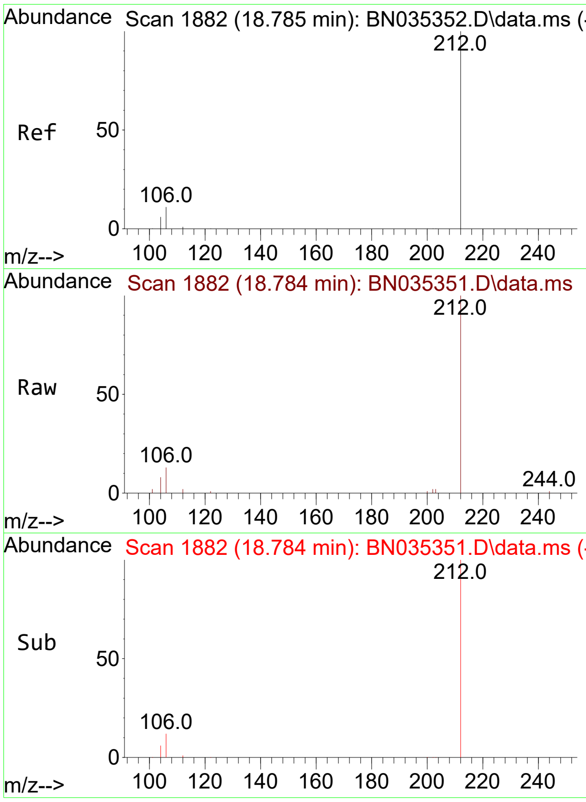


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



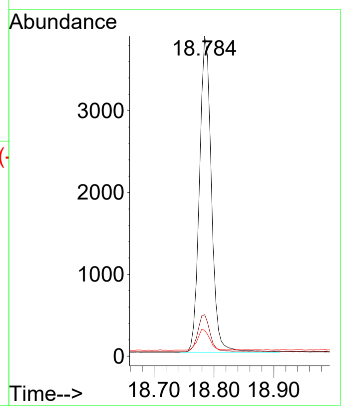


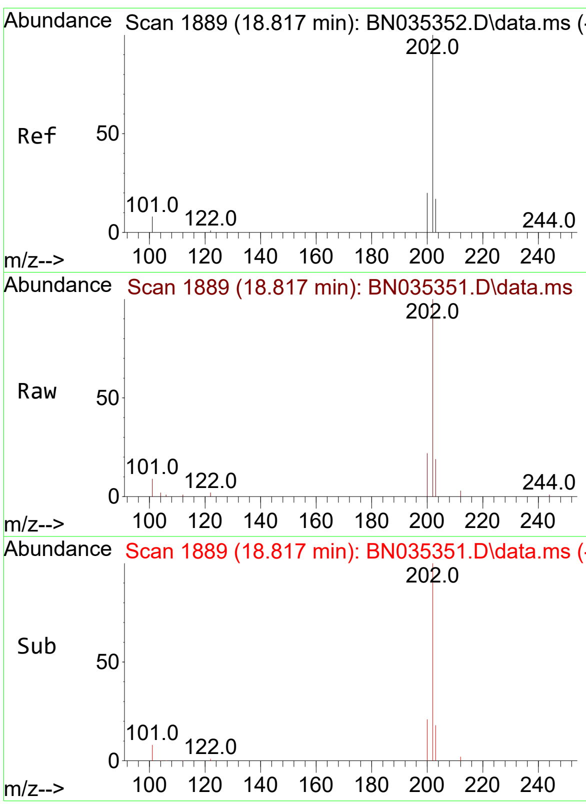
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

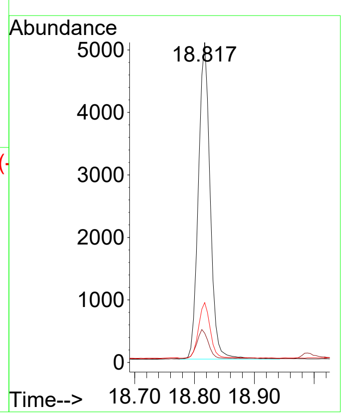


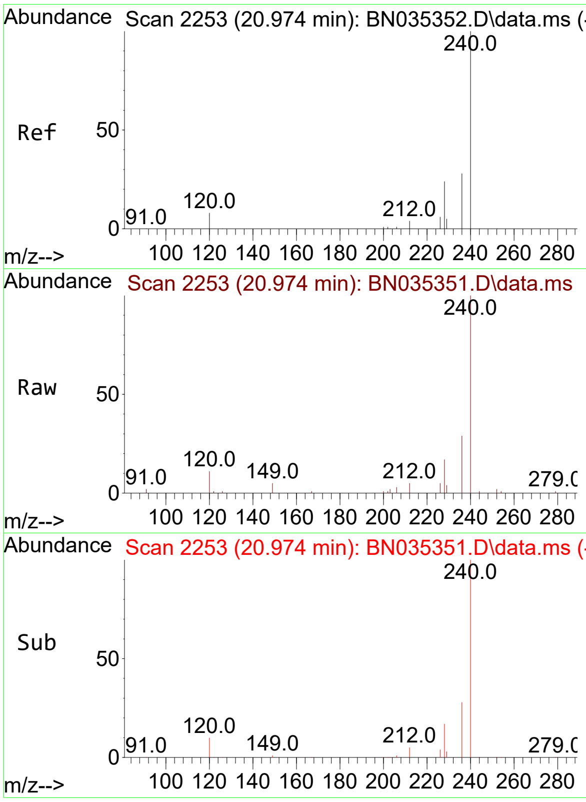


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



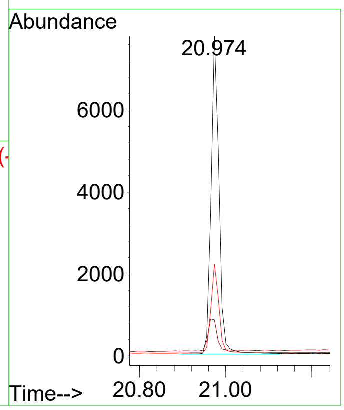


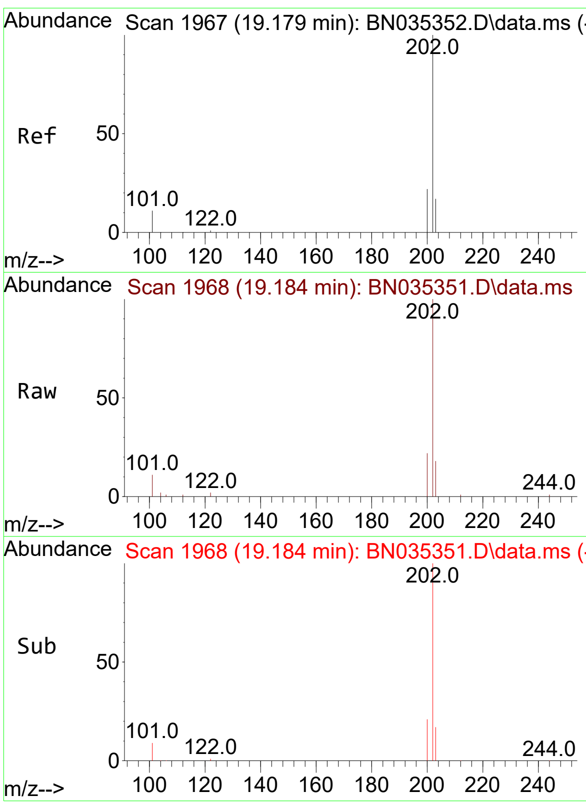
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

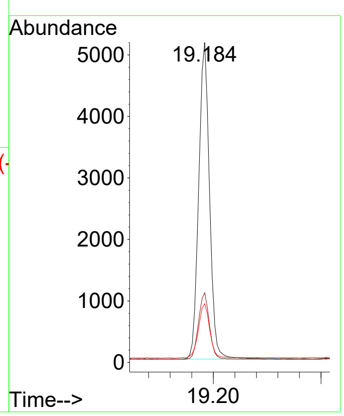


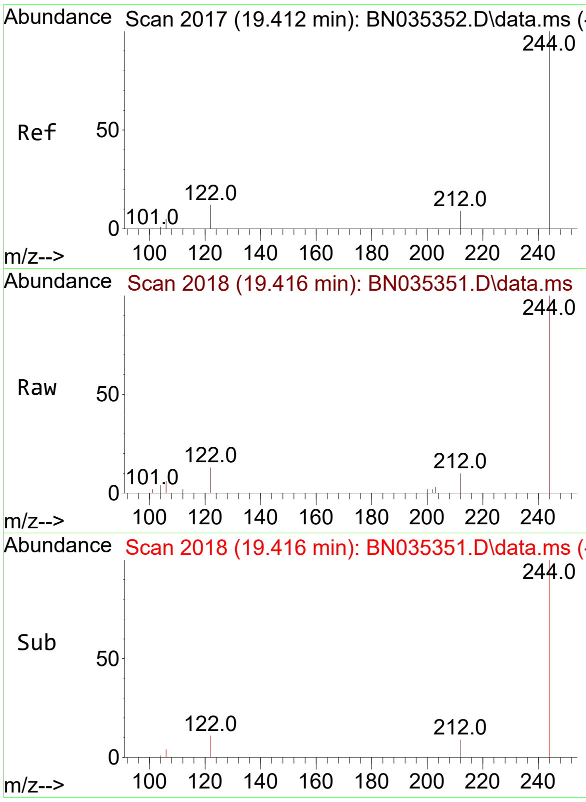


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



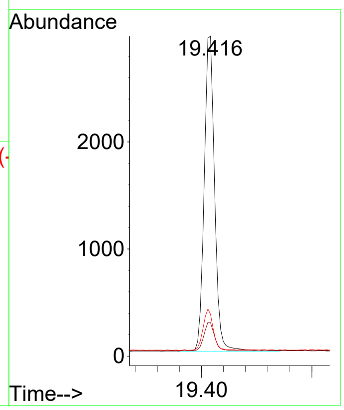


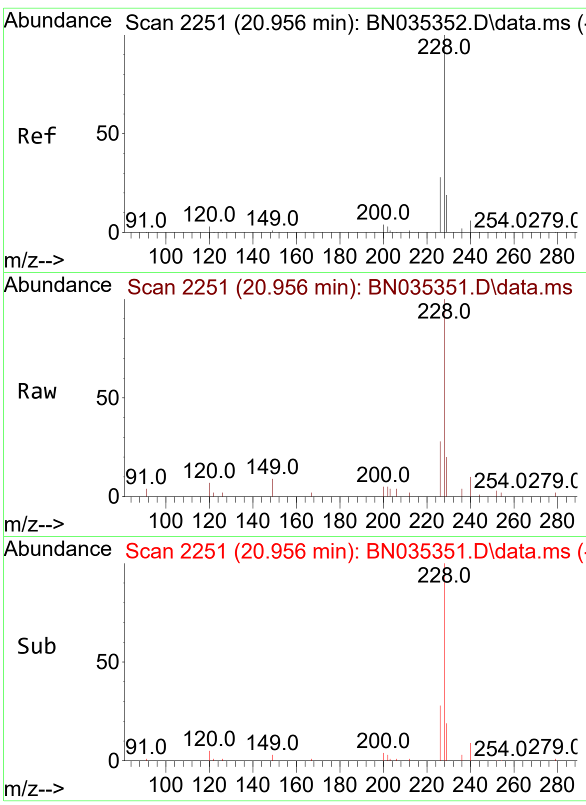
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2018
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

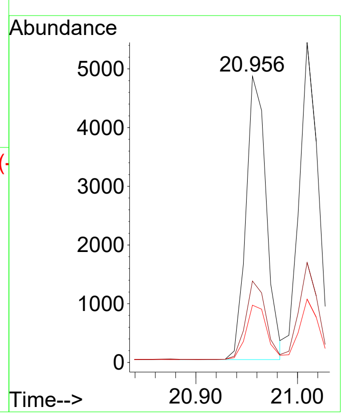


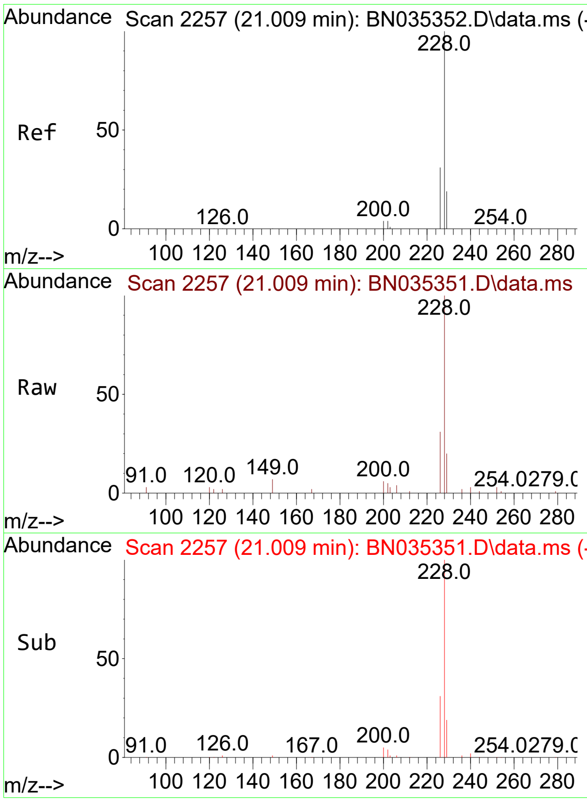


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



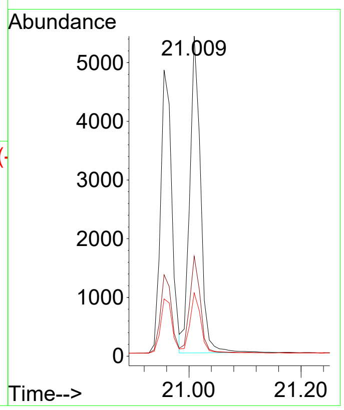


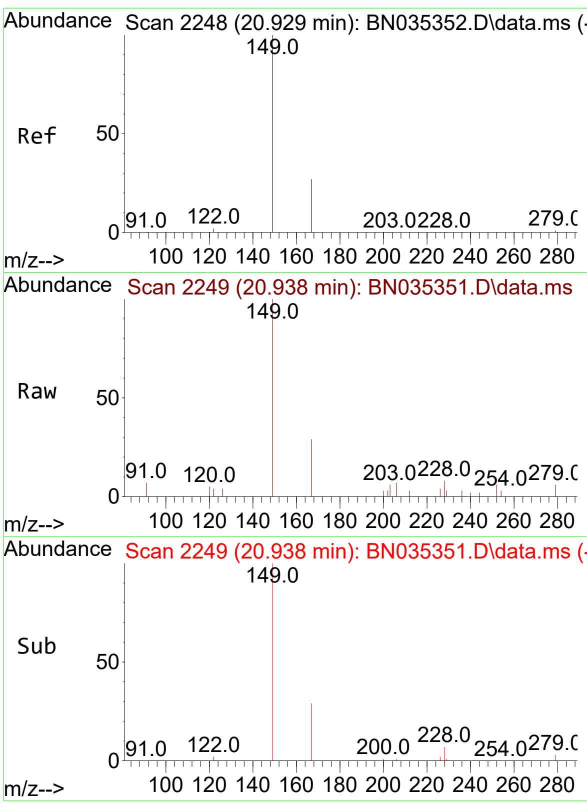
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

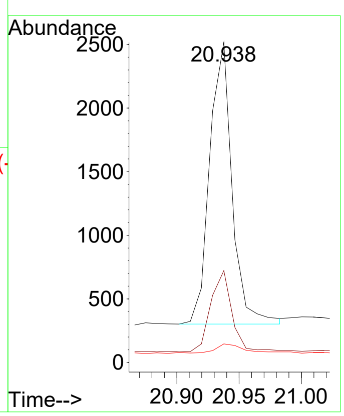


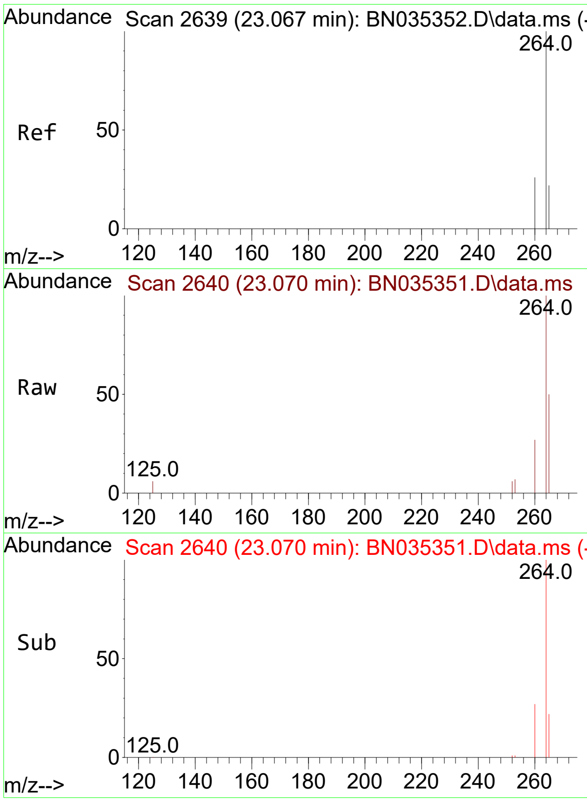


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#





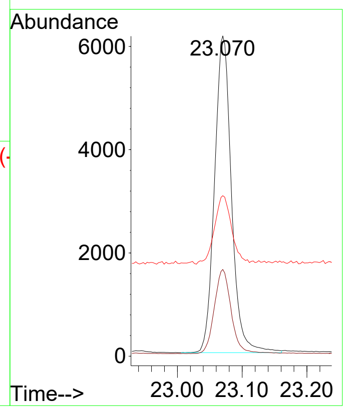
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2

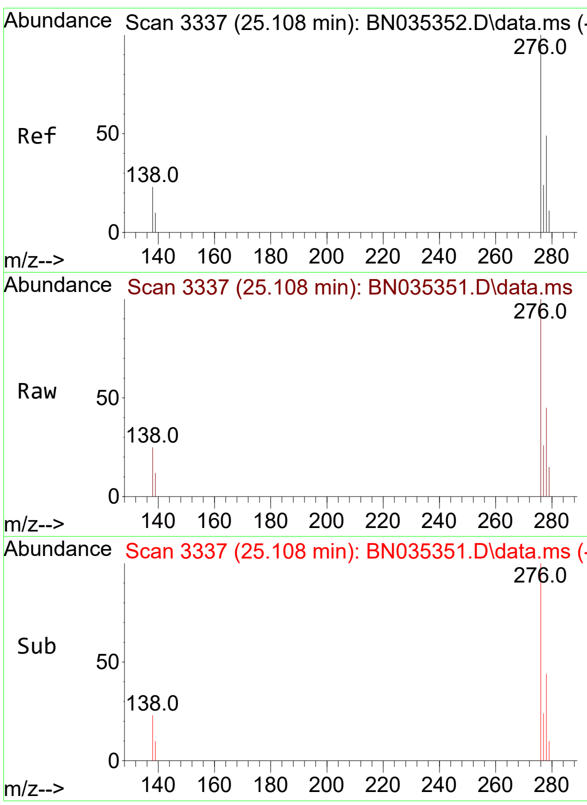
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

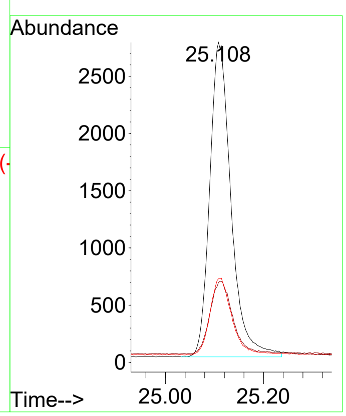


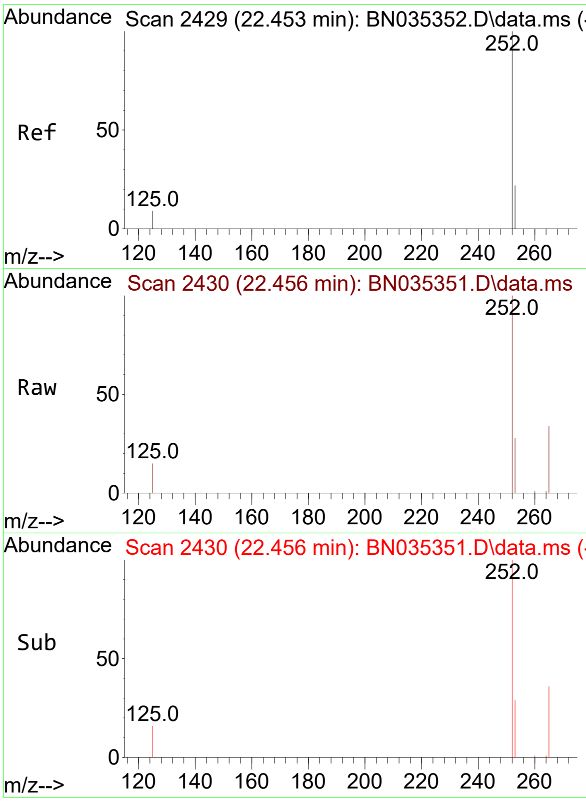


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



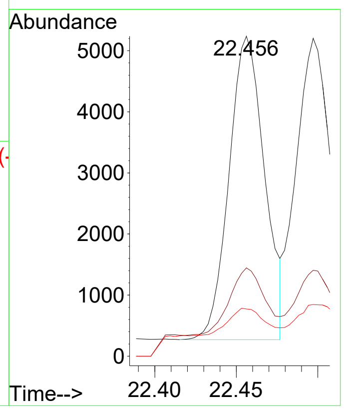


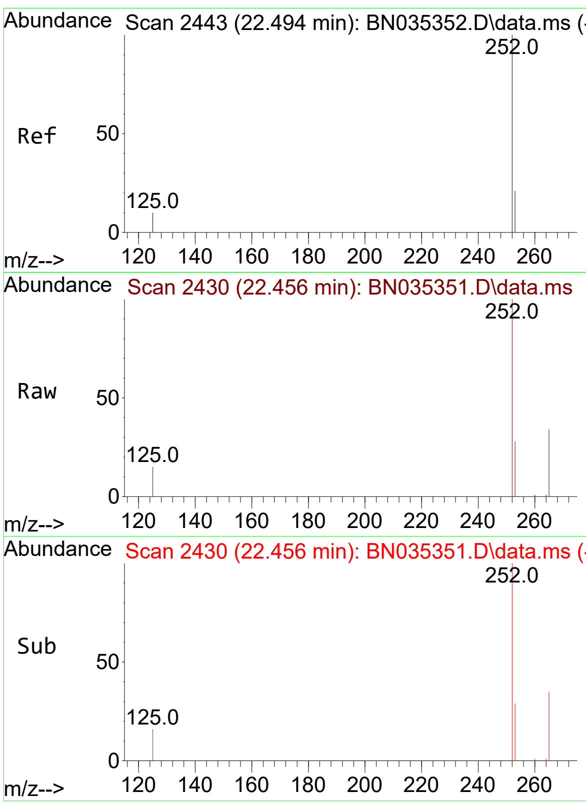
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

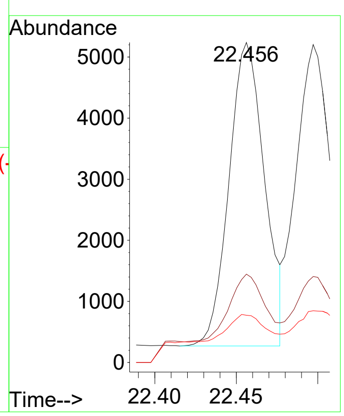


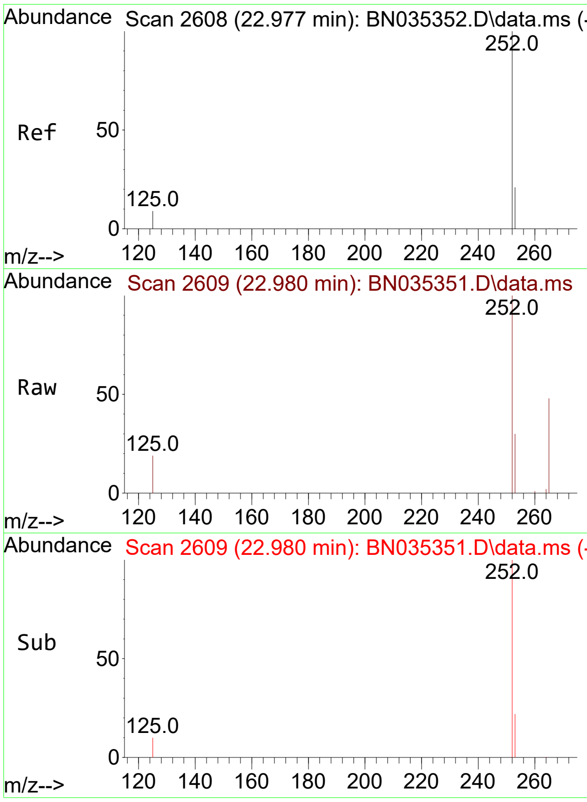


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



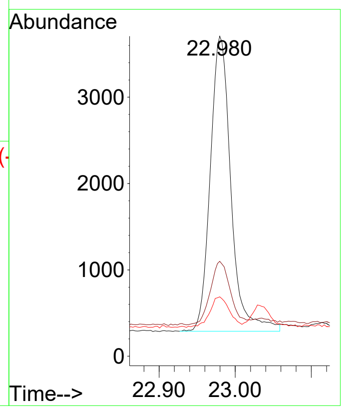


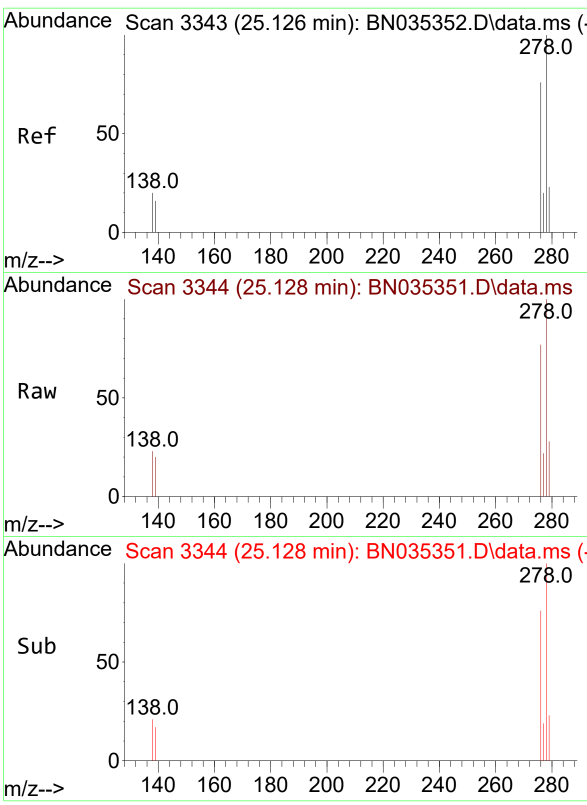
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2(
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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#

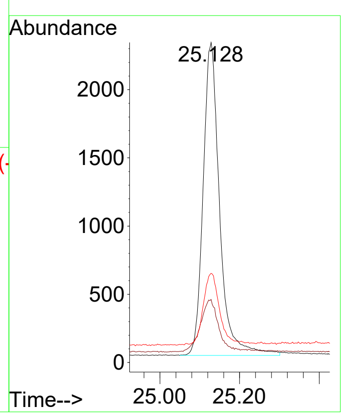


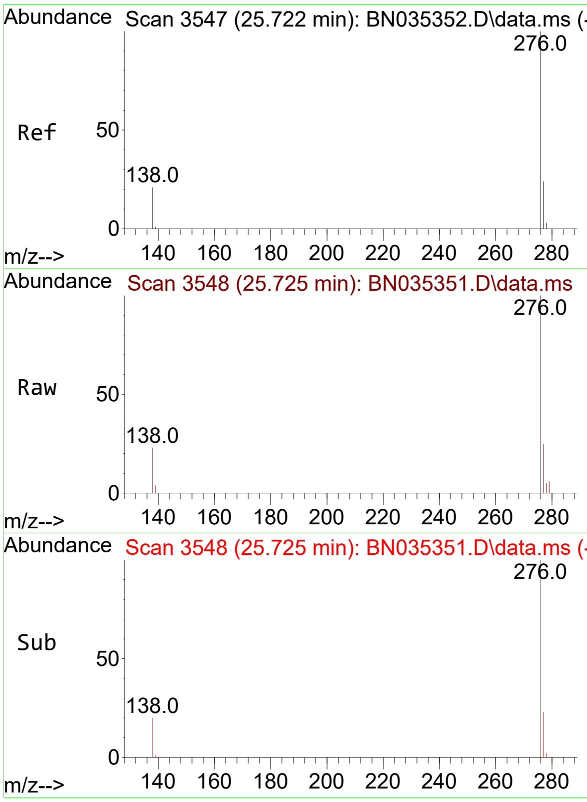


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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



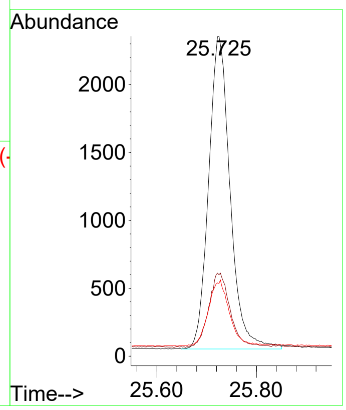


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3!
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

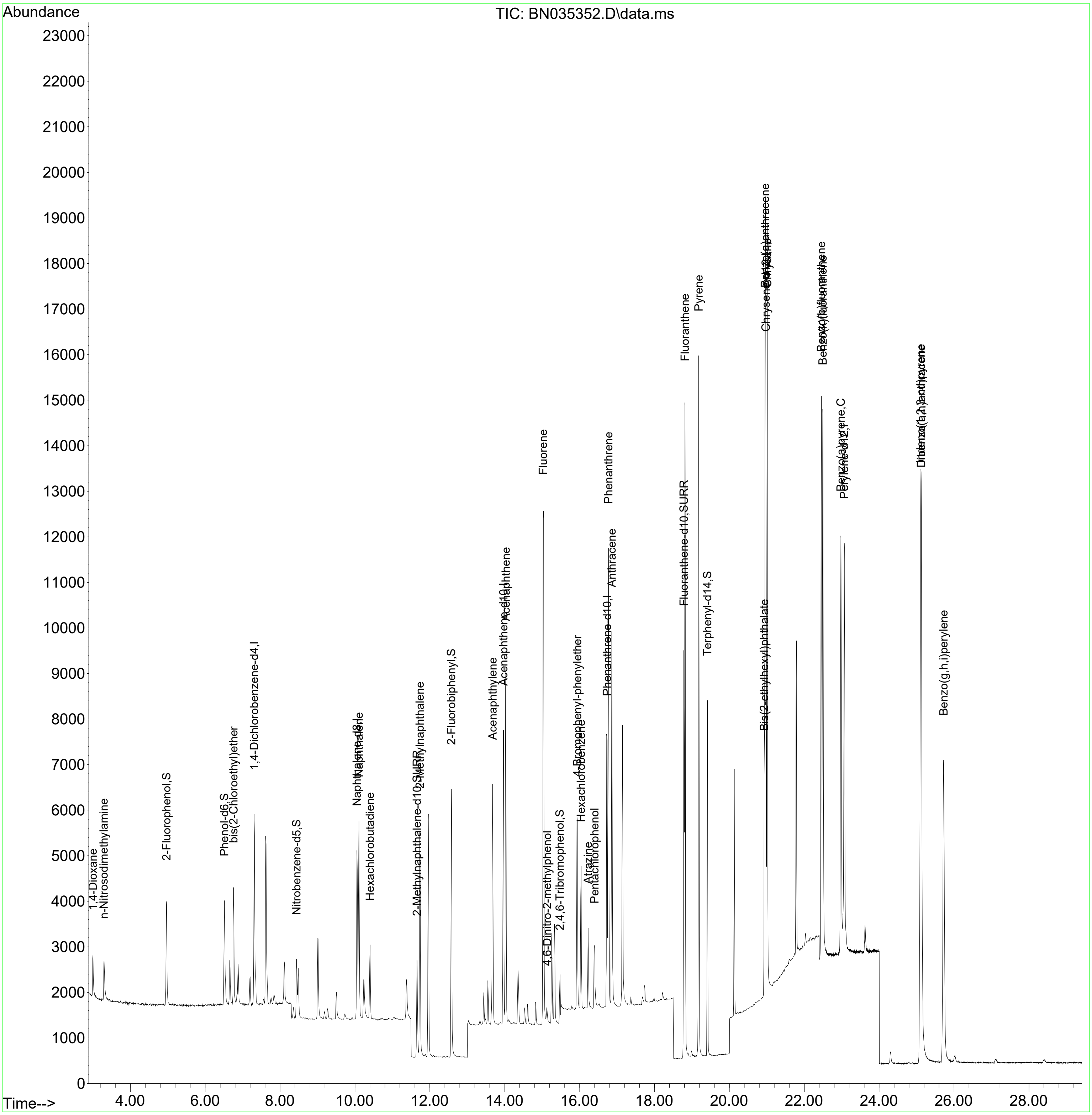
(#) = qualifier out of range (m) = manual integration (+) = signals summed

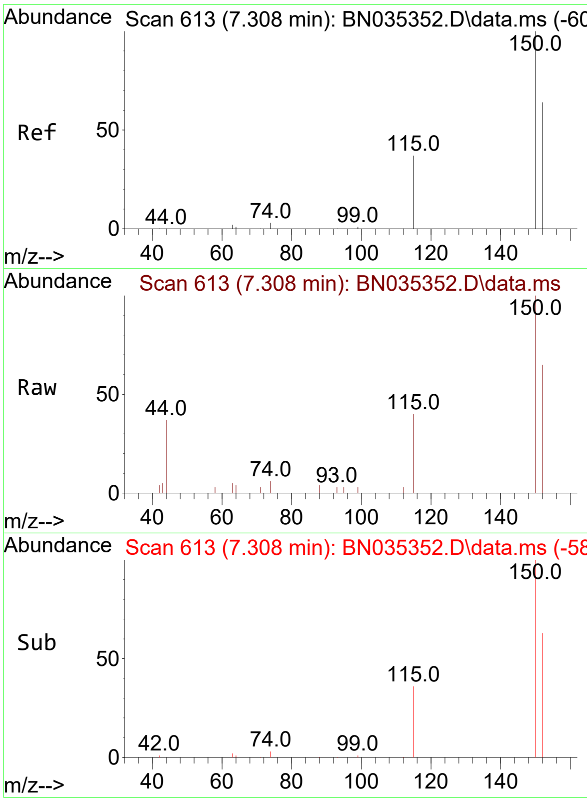
Quantitation Report (Not Reviewed)

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



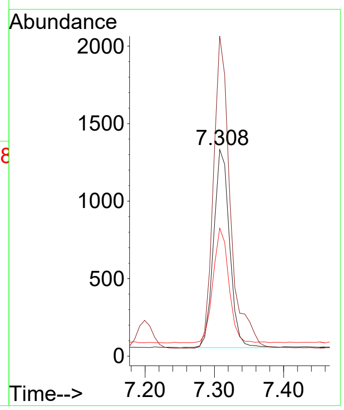


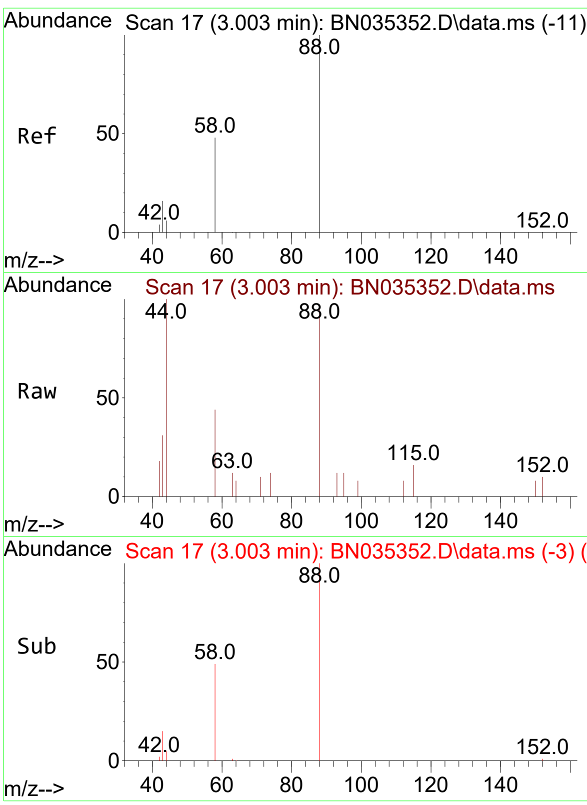
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

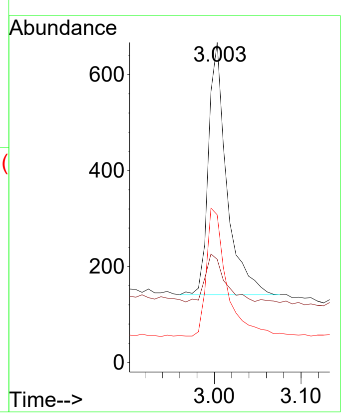


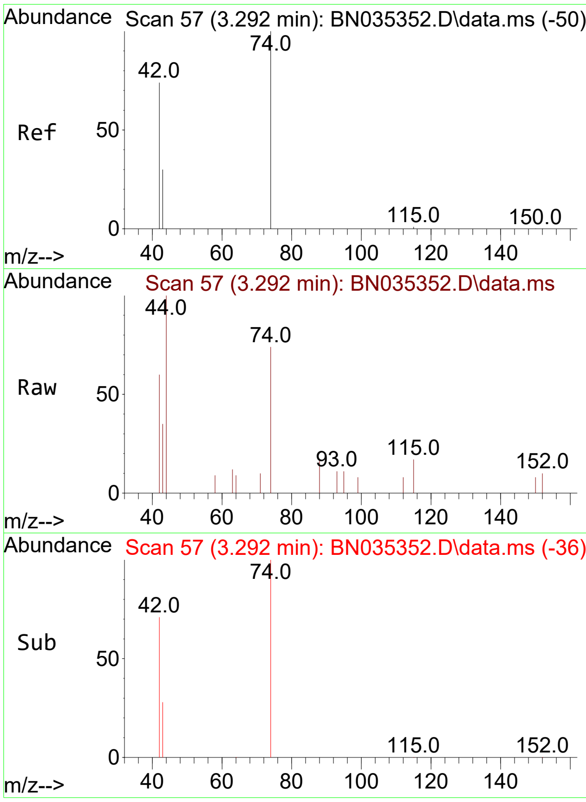


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



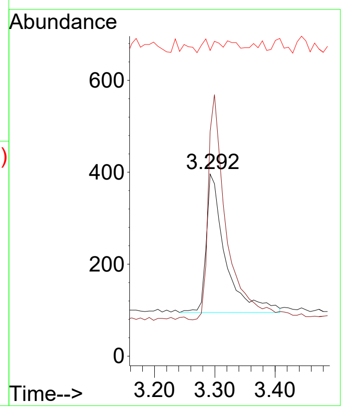


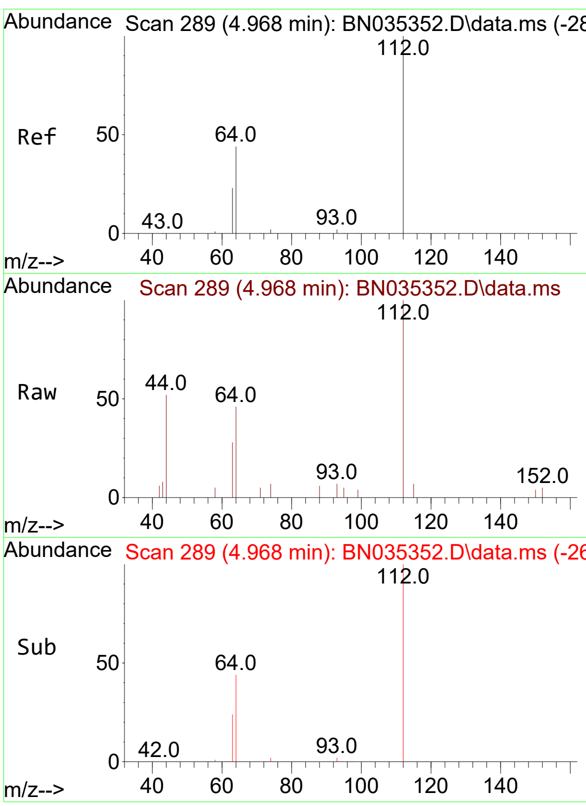
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

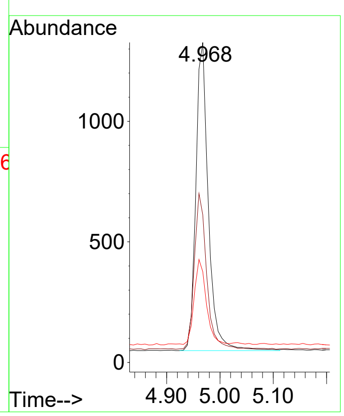


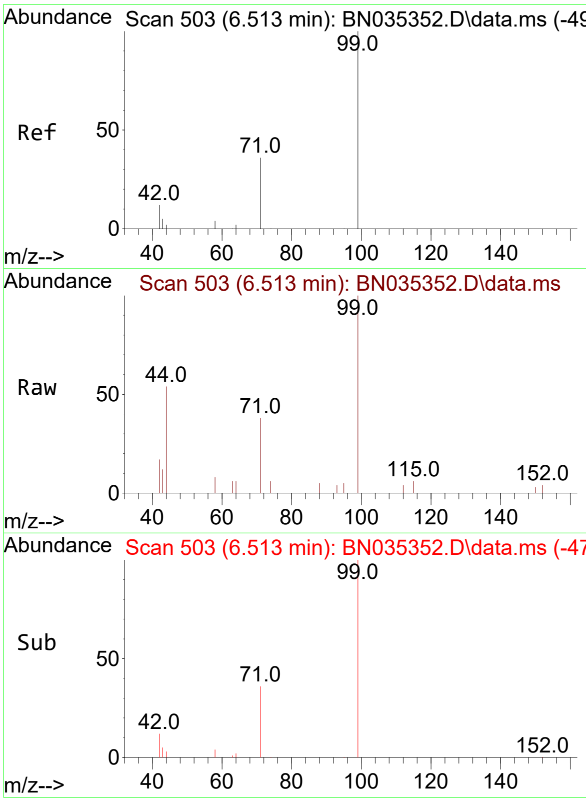


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



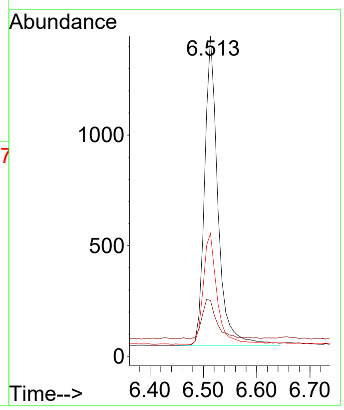


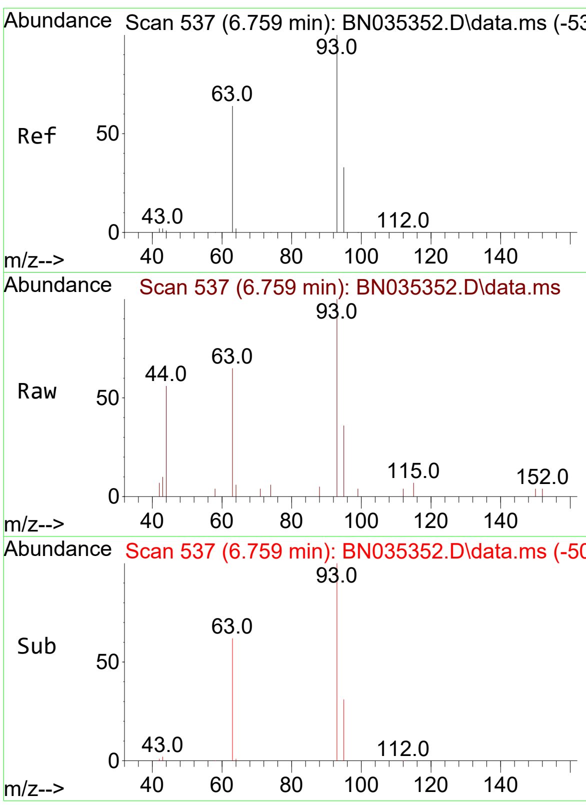
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 50
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

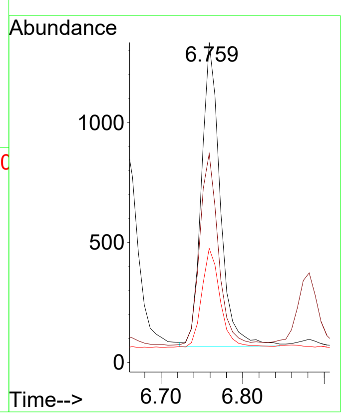


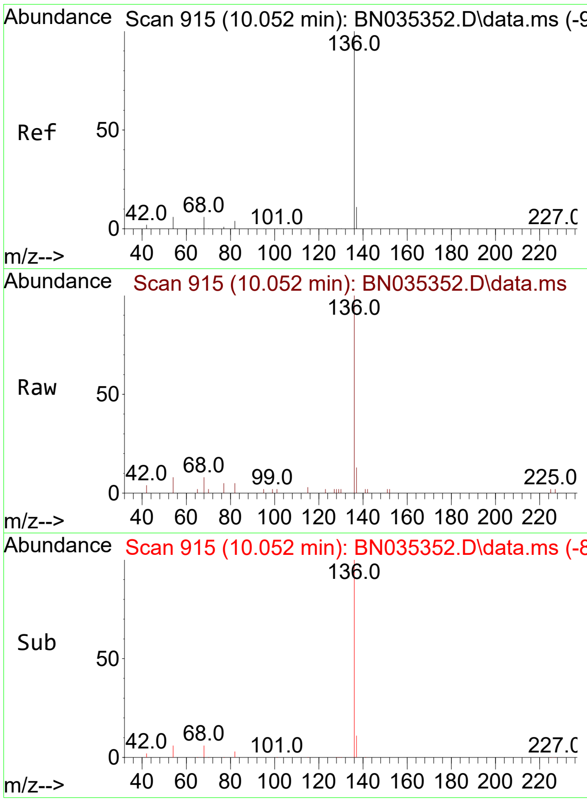


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



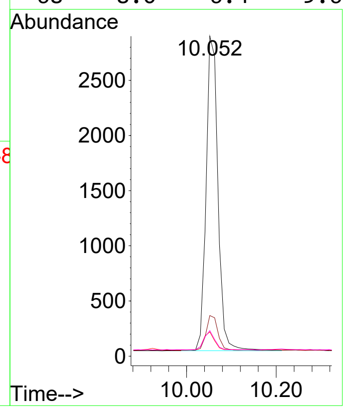


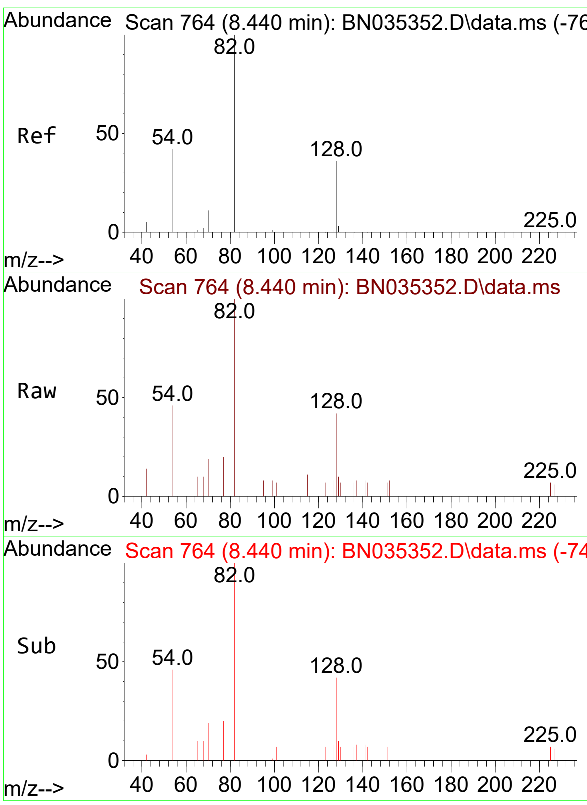
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

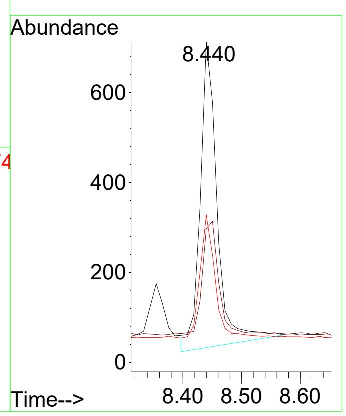




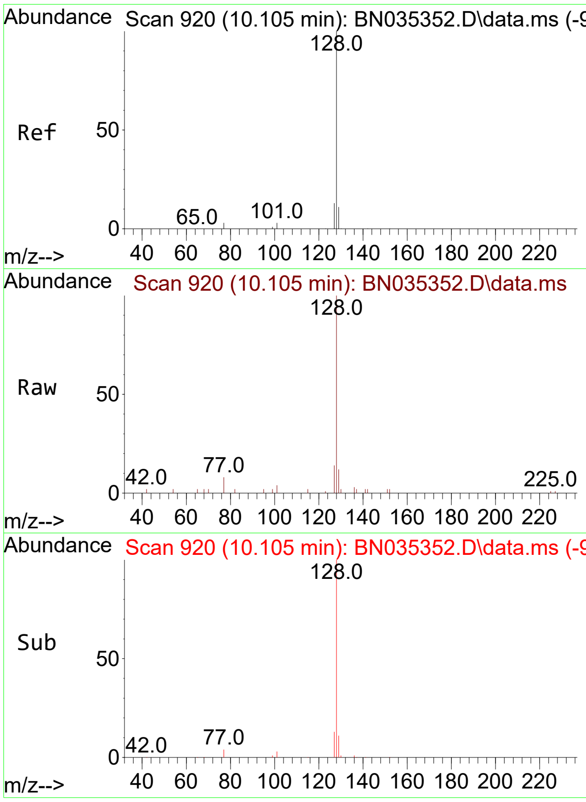
#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



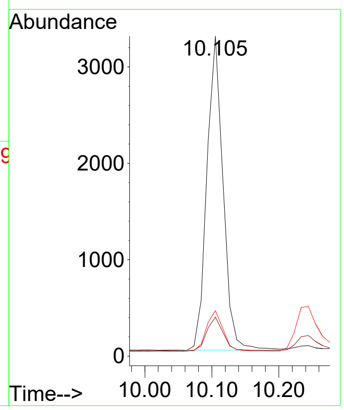
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

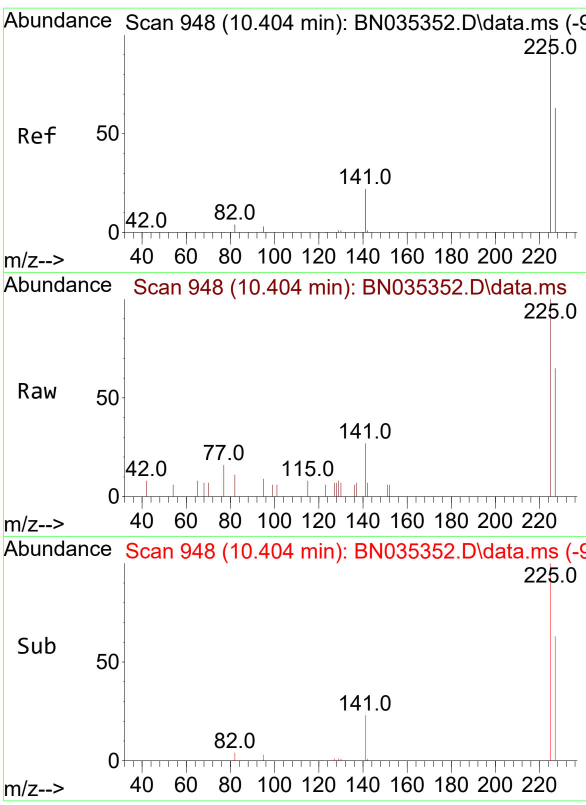


#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min   Scan# 9
Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024   16:46

Tgt Ion:128 Resp: 5475

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

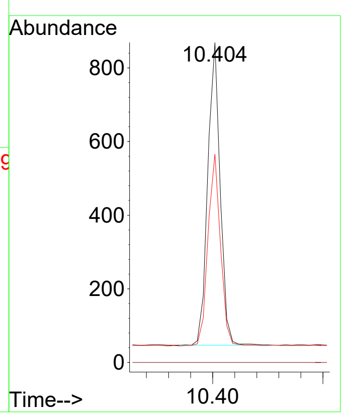


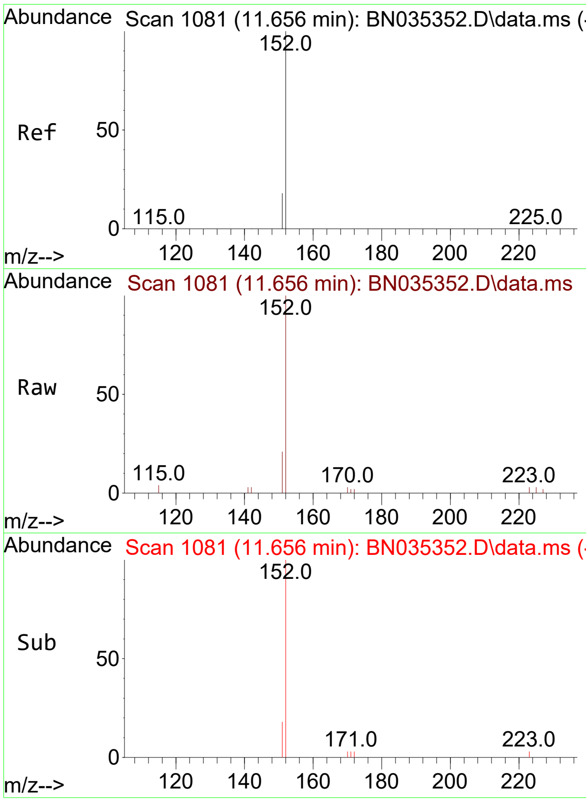


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min   Scan# 948
Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024   16:46

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



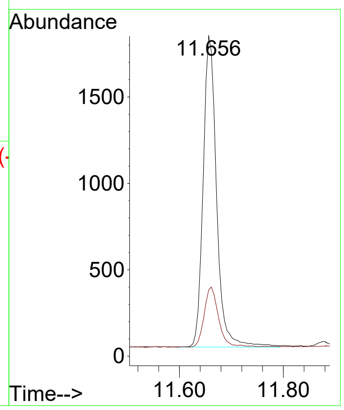


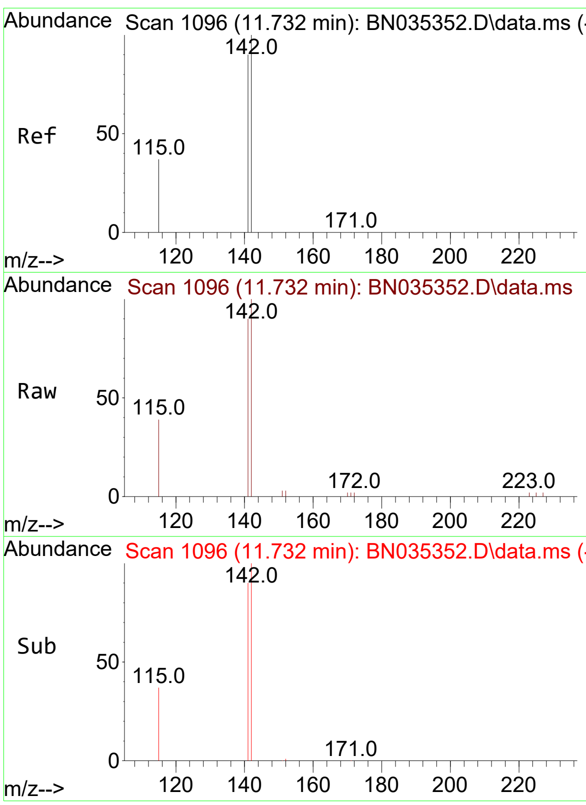
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

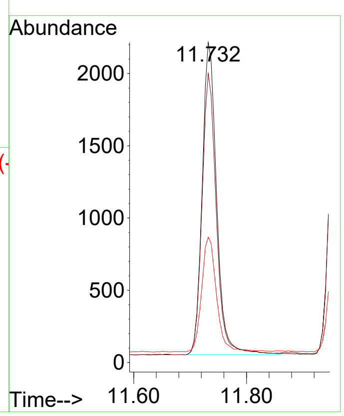


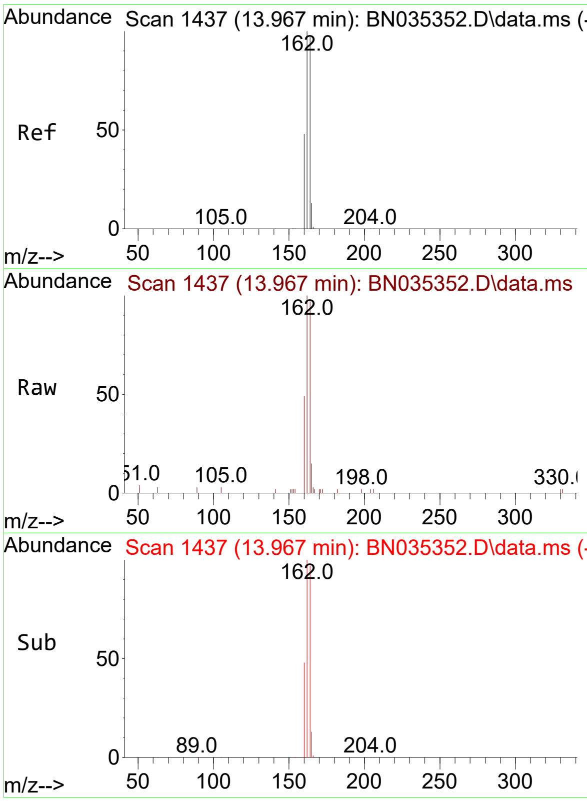


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



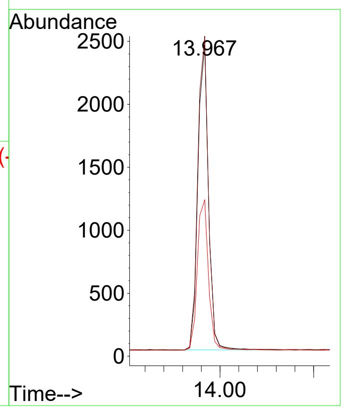


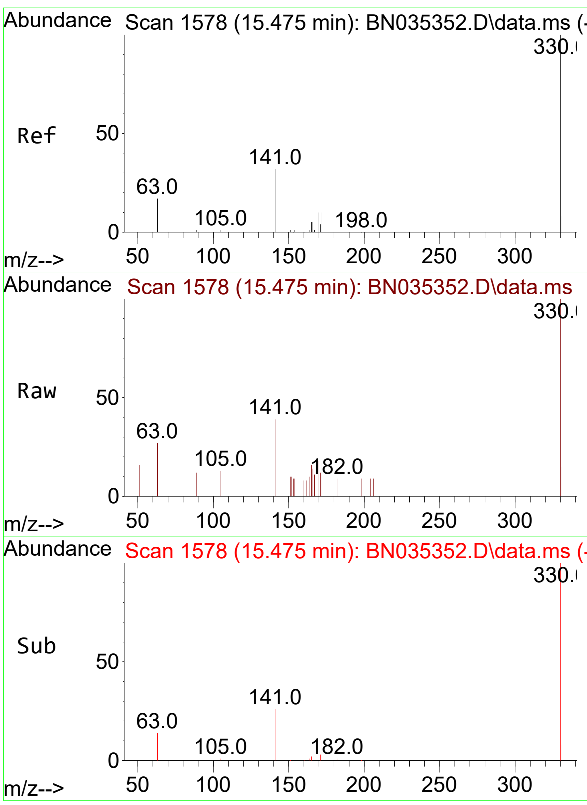
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

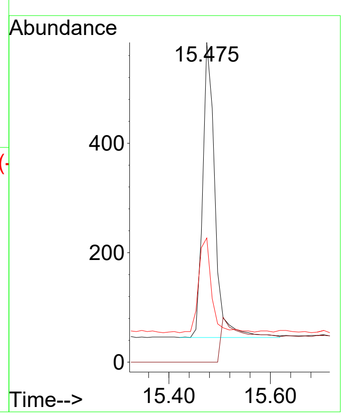


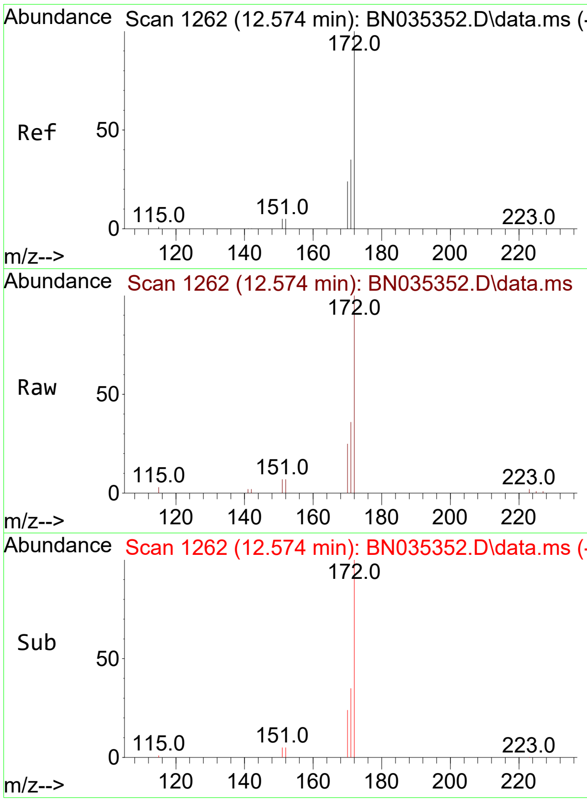


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



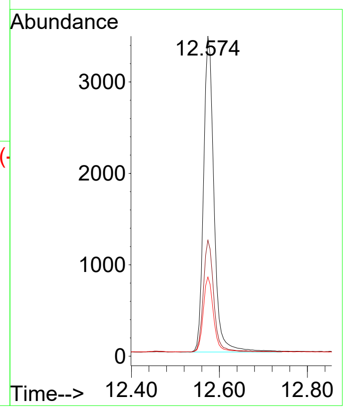


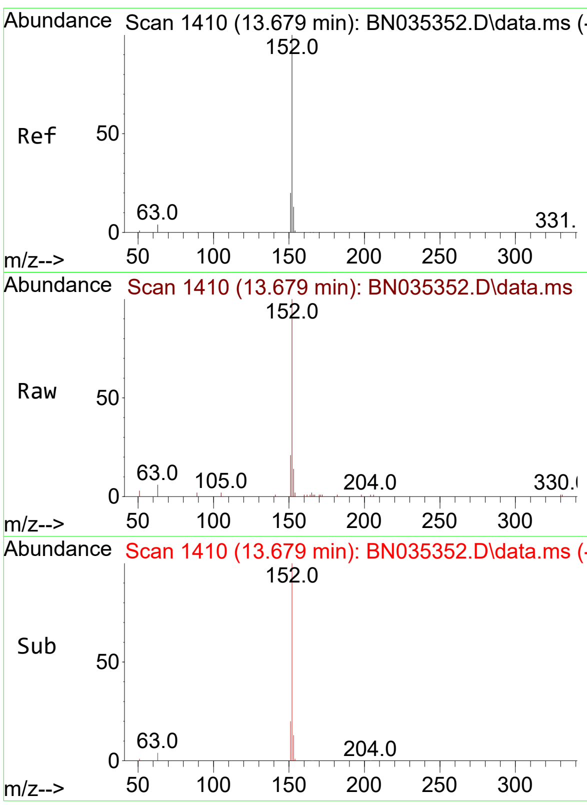
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

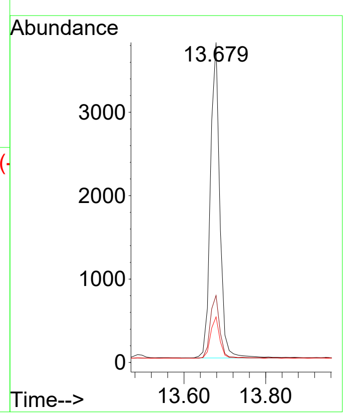


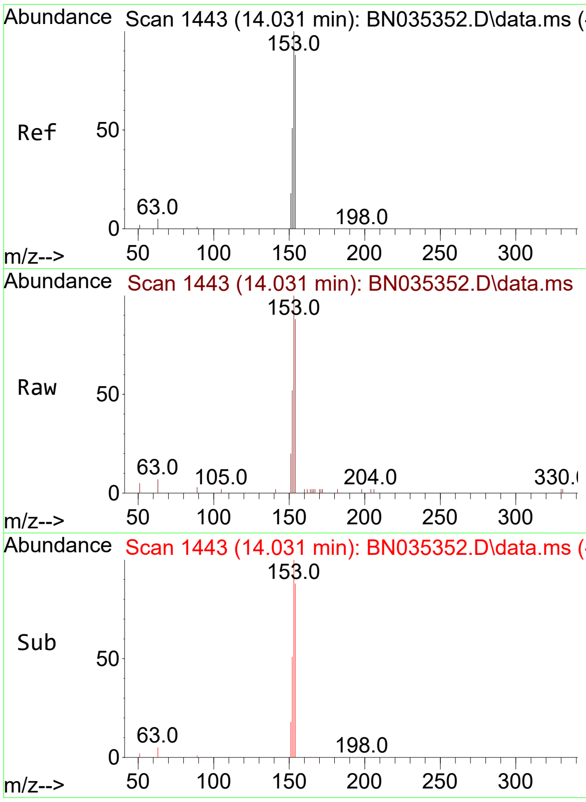


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





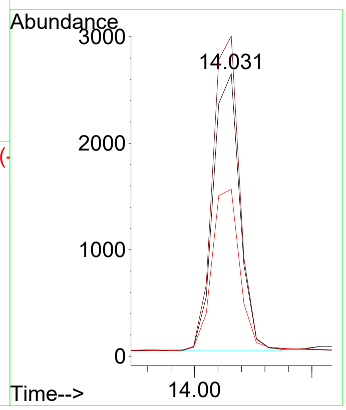
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14

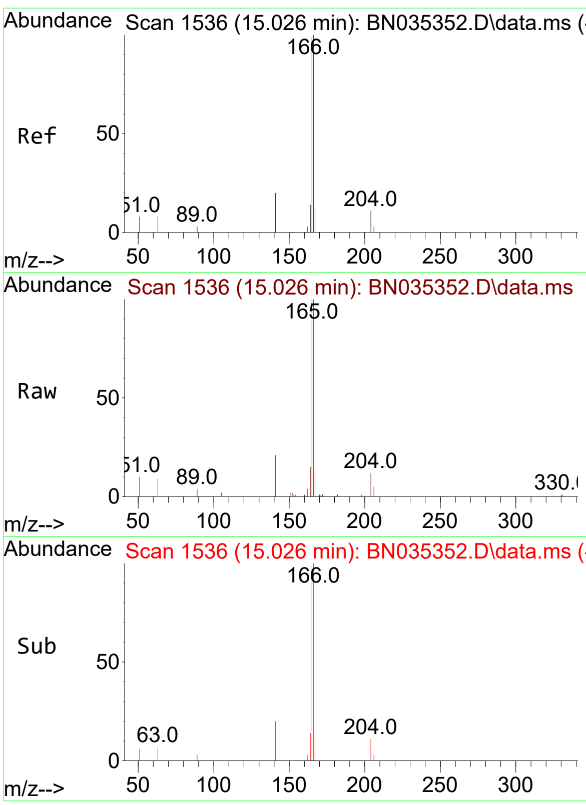
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

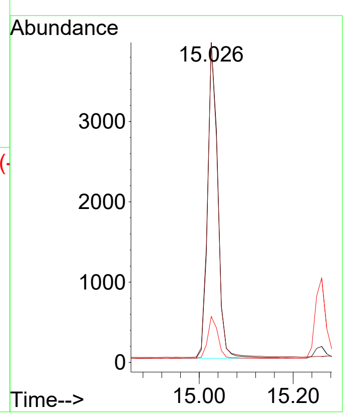


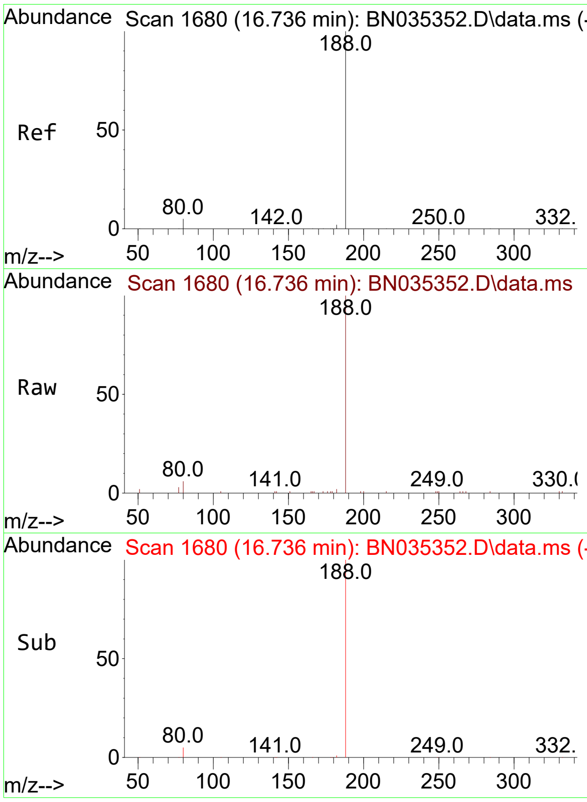


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



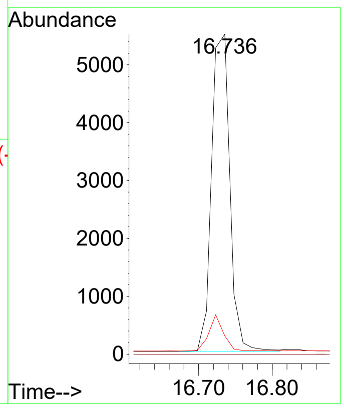


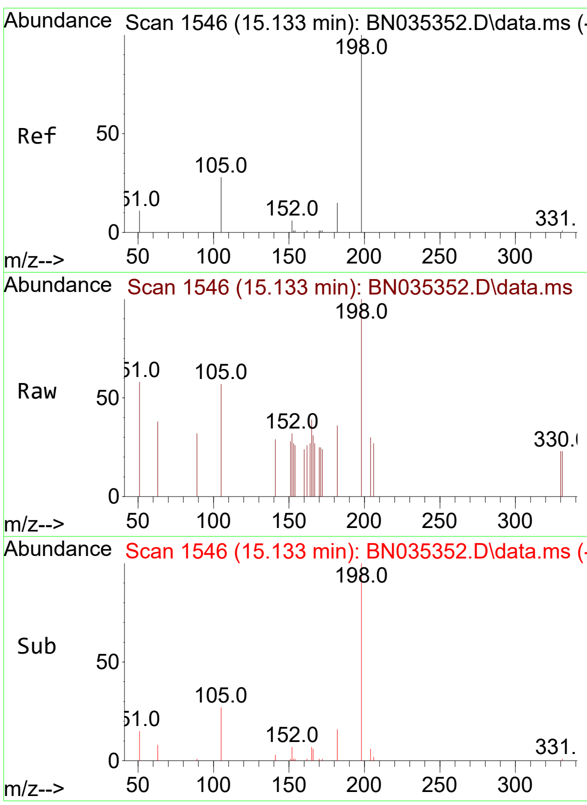
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

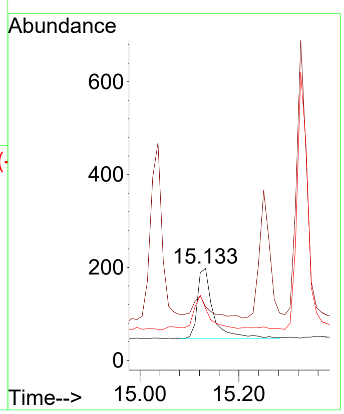


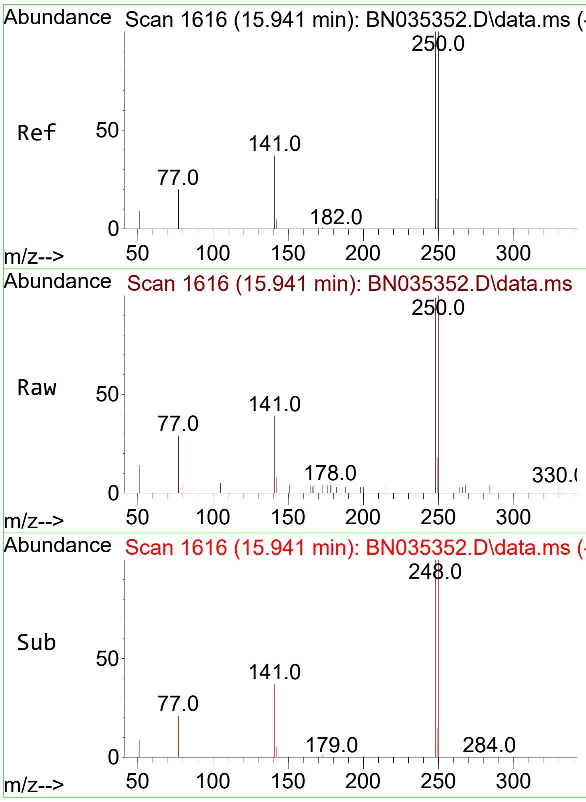


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





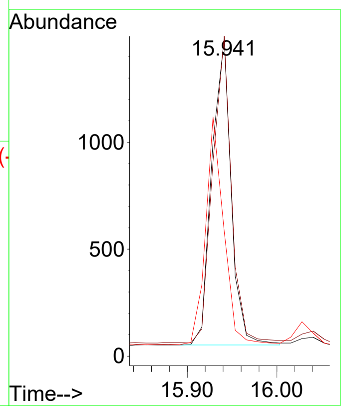
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1

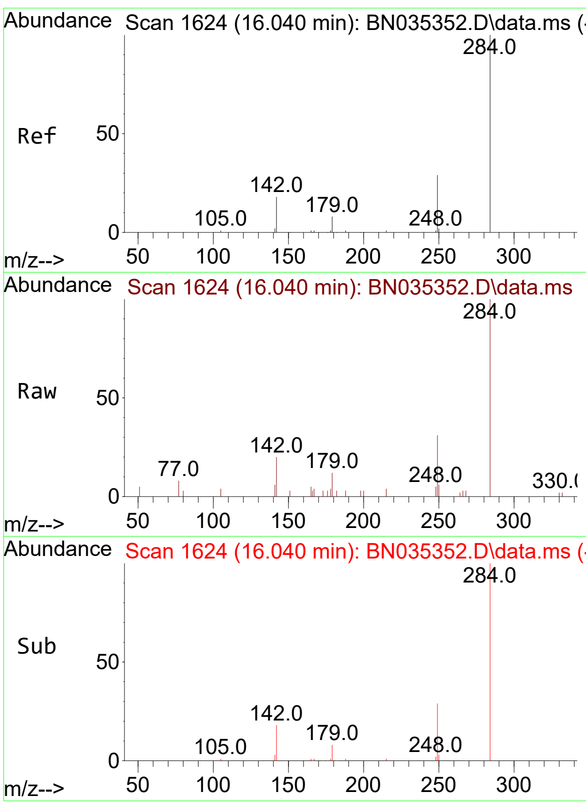
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

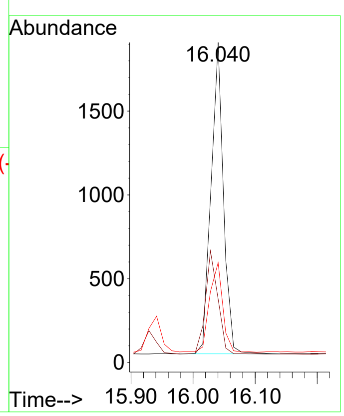


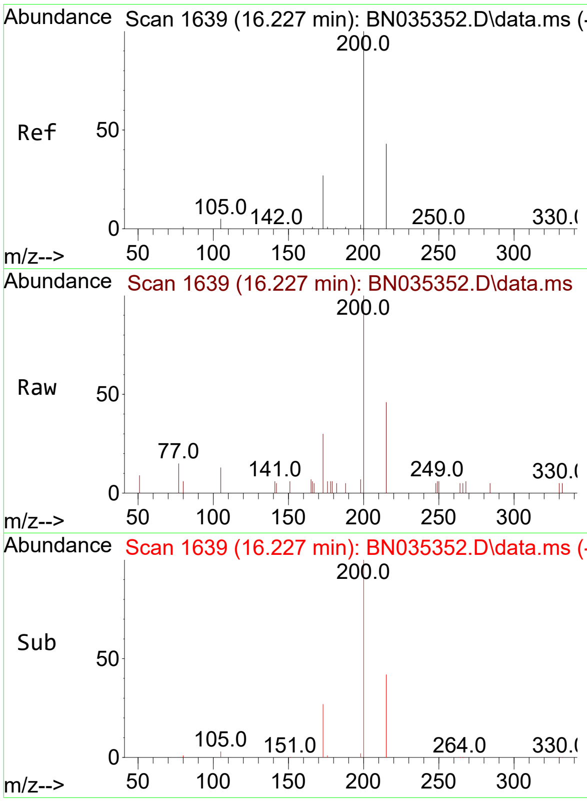


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



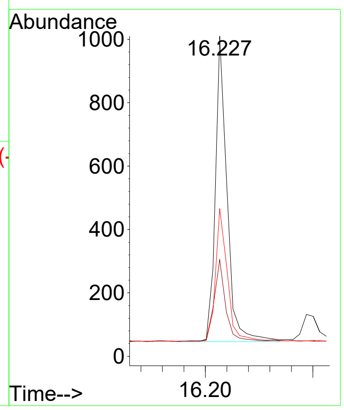


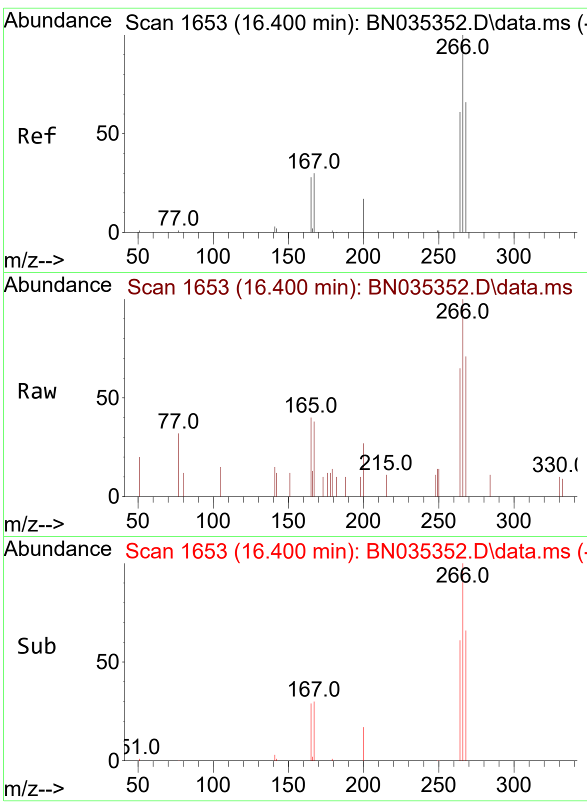
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

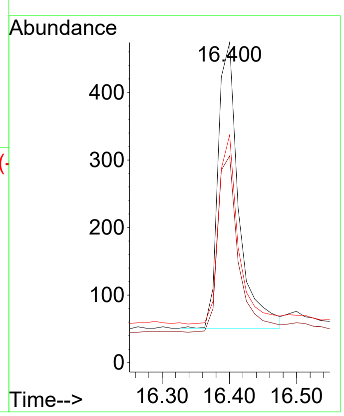


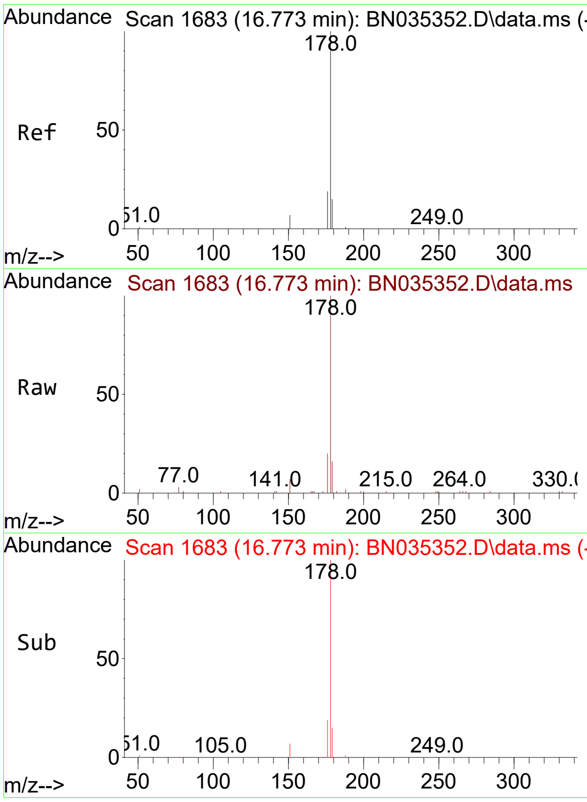


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





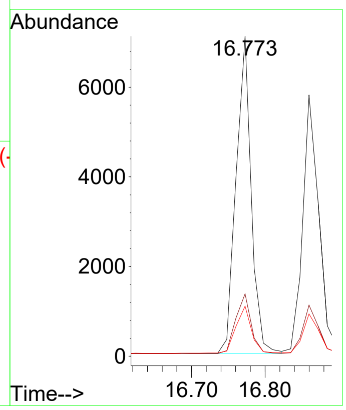
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1

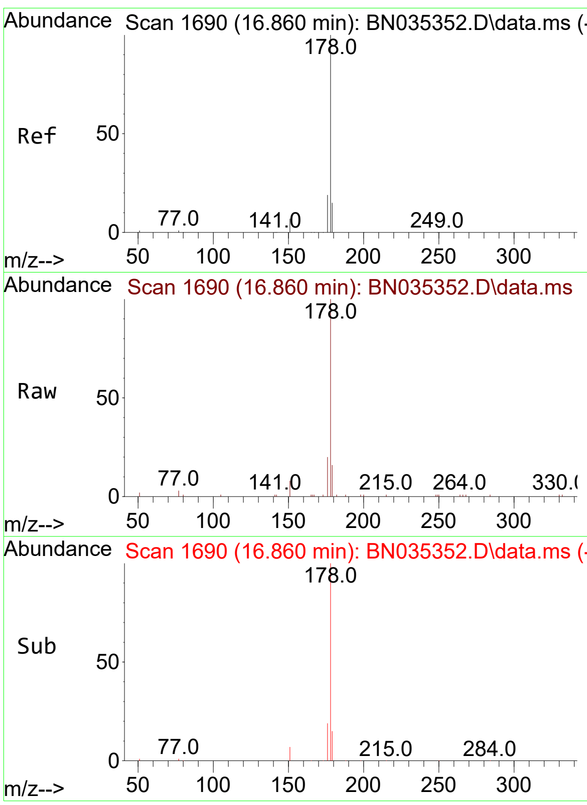
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

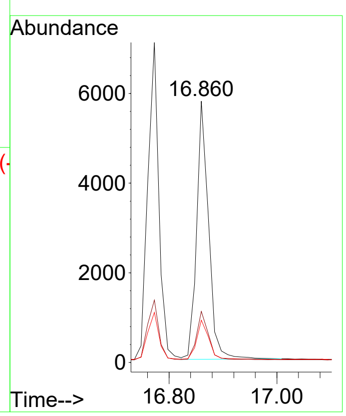


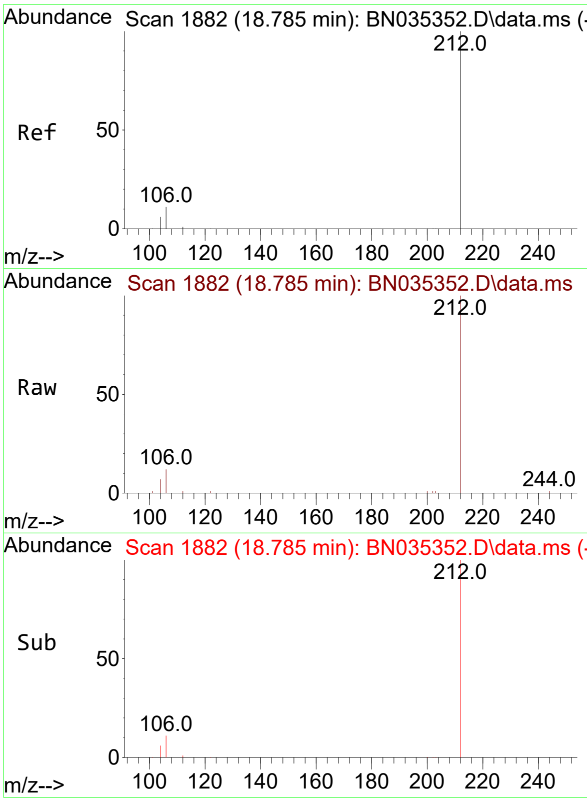


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T.   0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





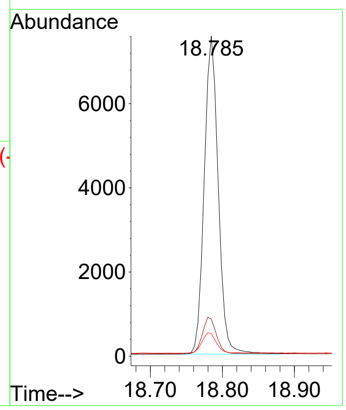
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1

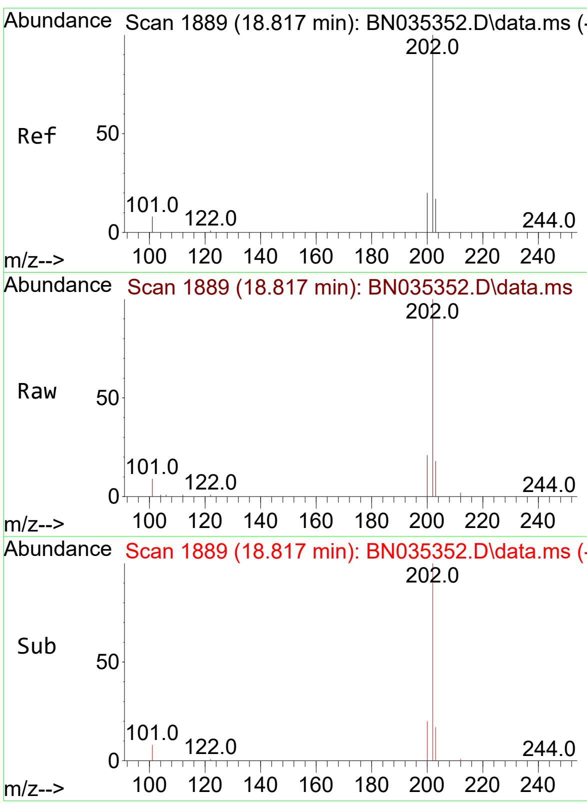
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

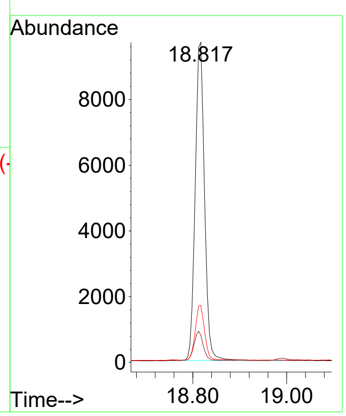


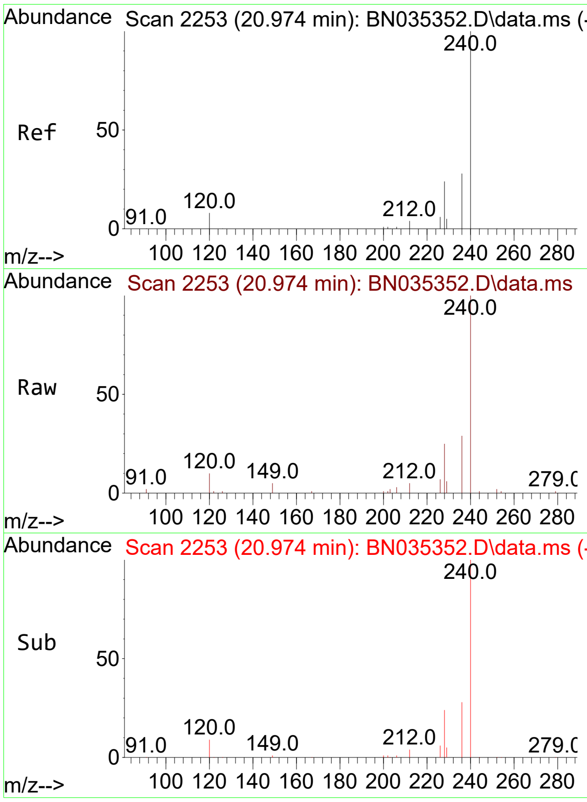


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



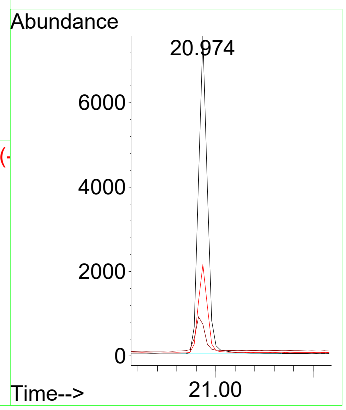


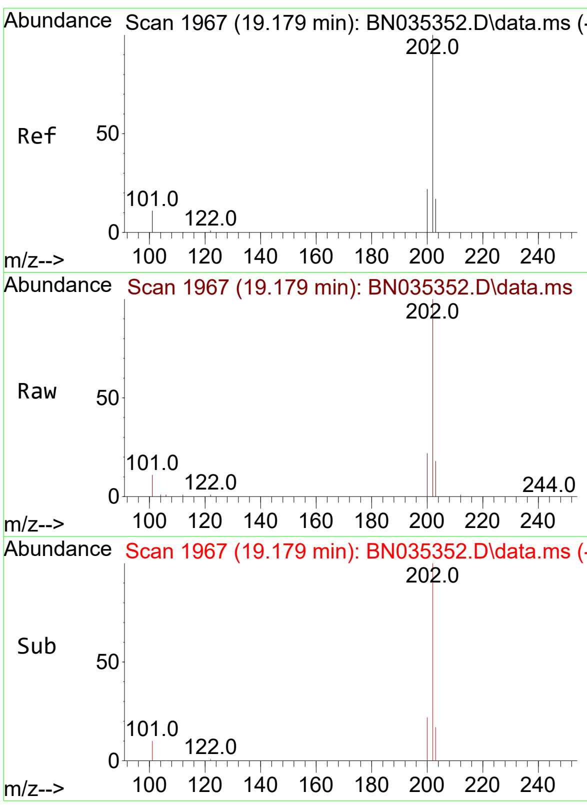
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

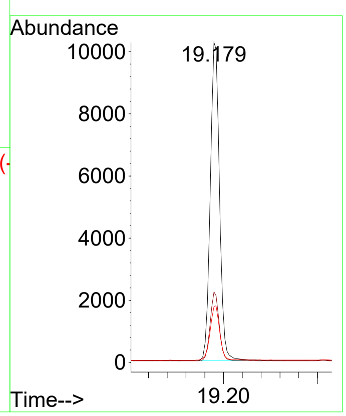


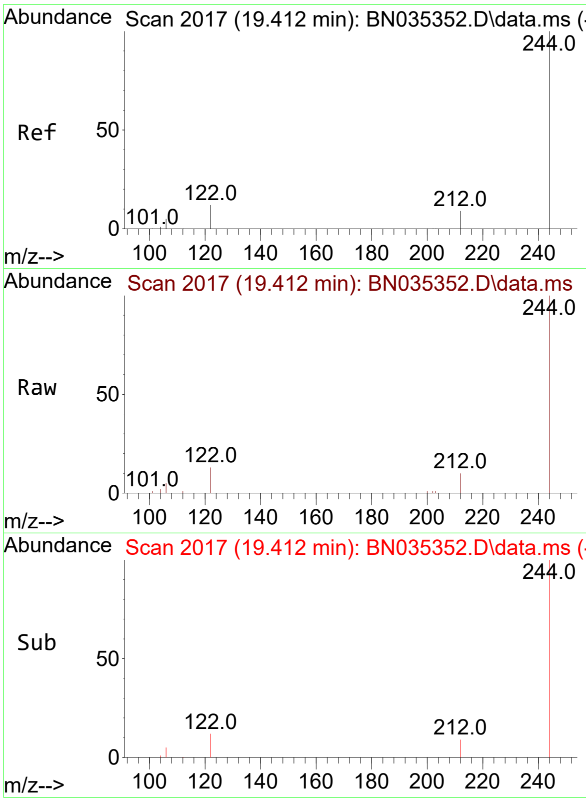


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



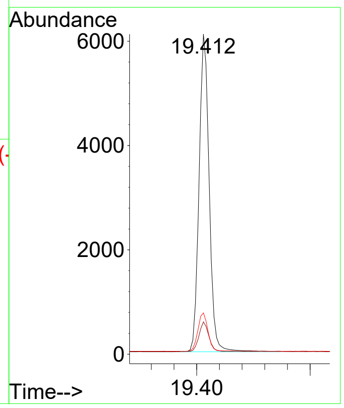


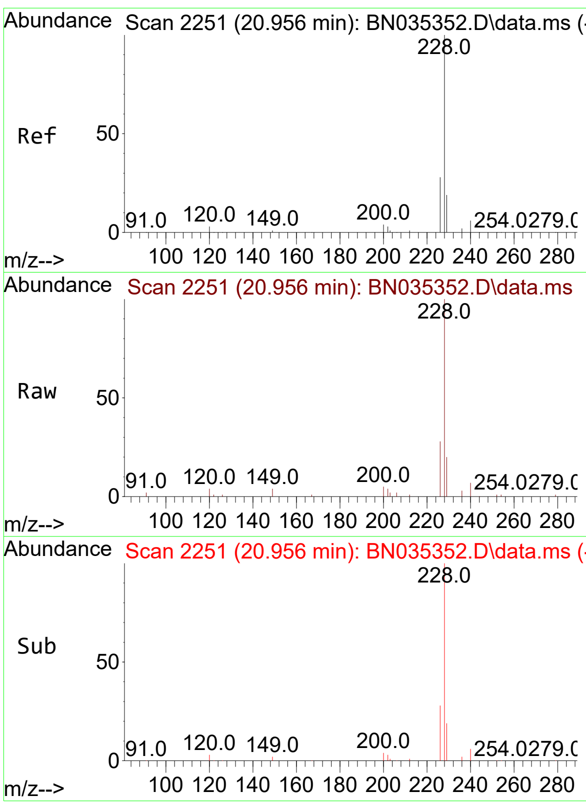
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

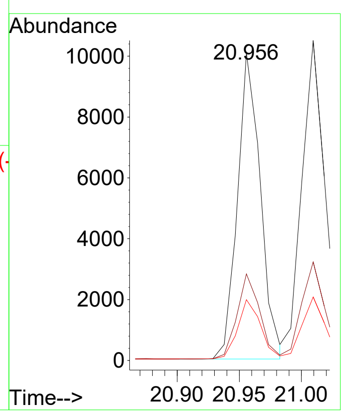


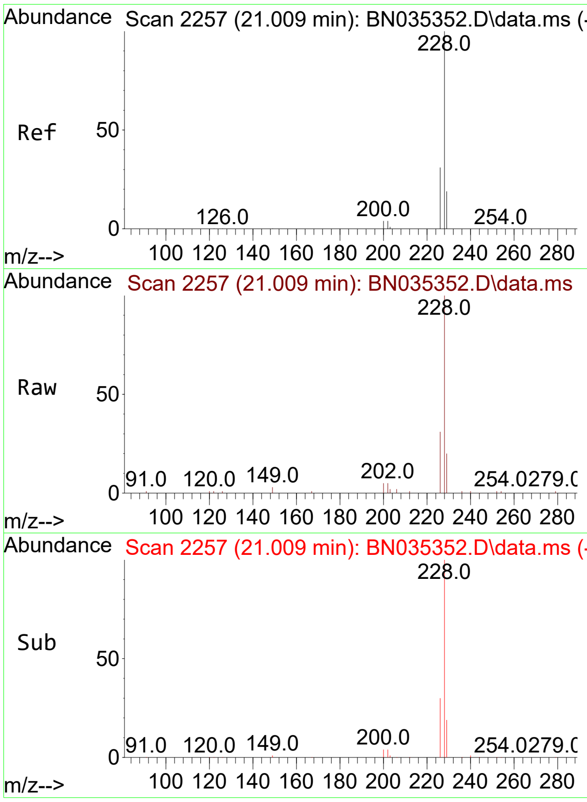


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



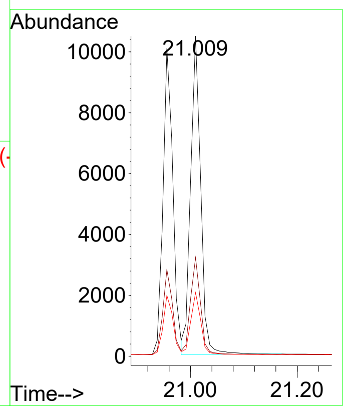


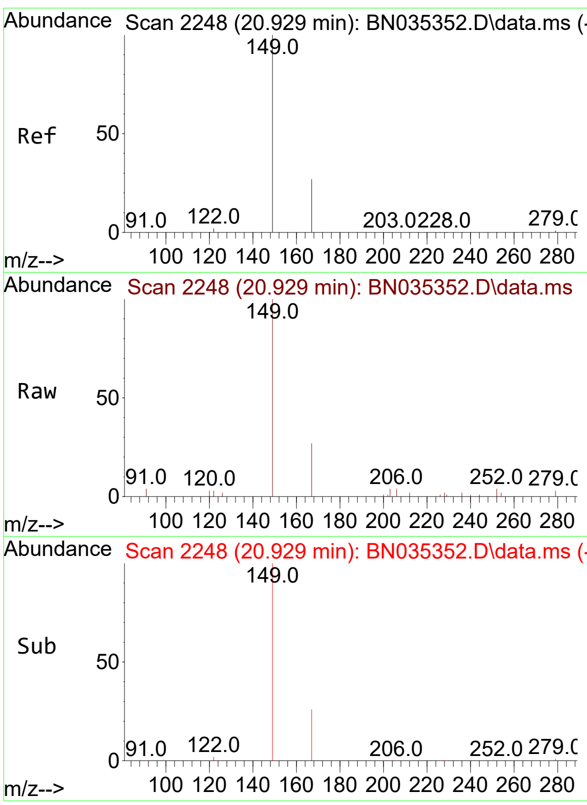
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

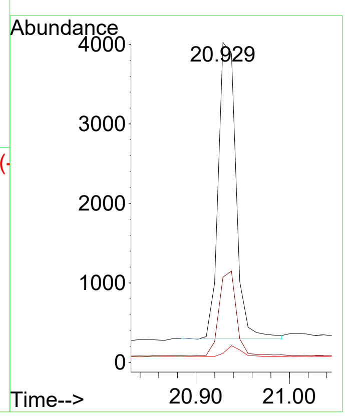


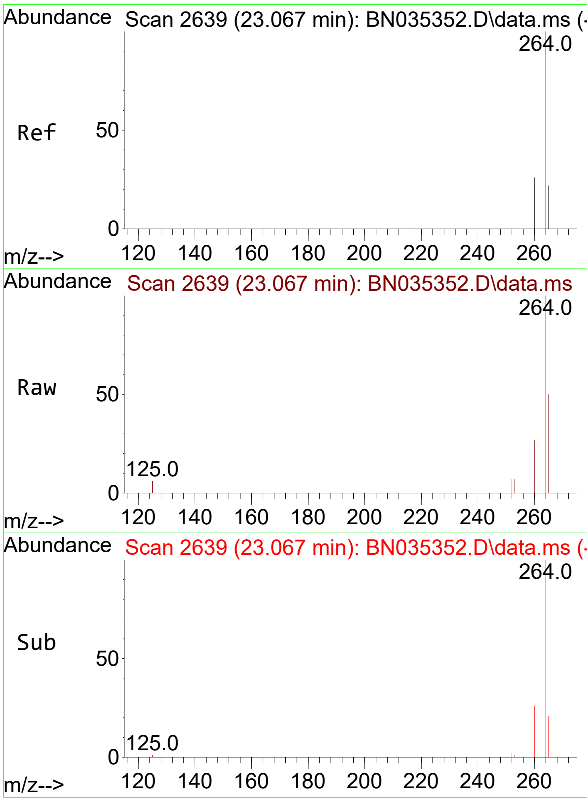


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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





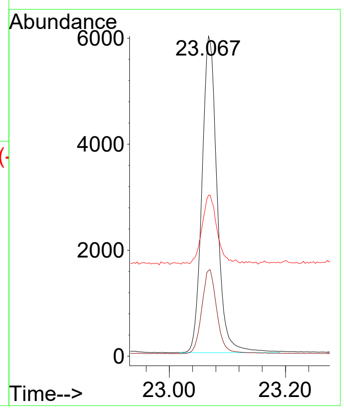
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2

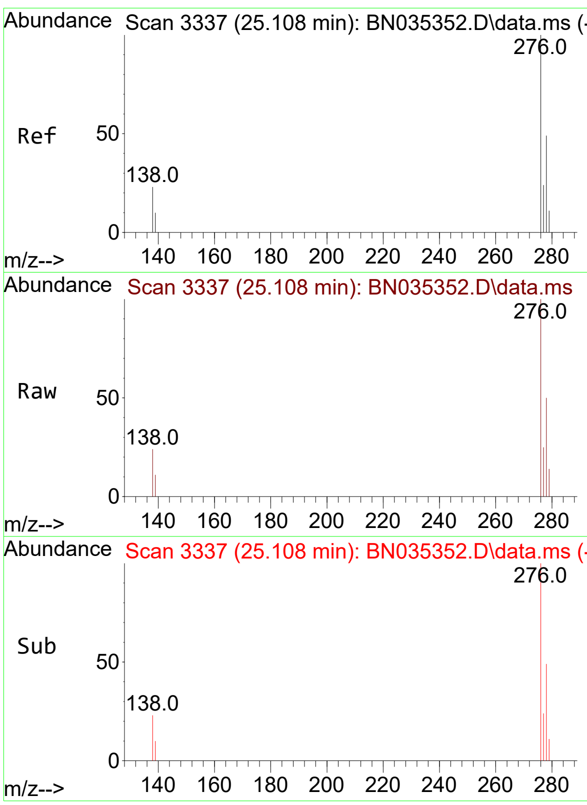
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

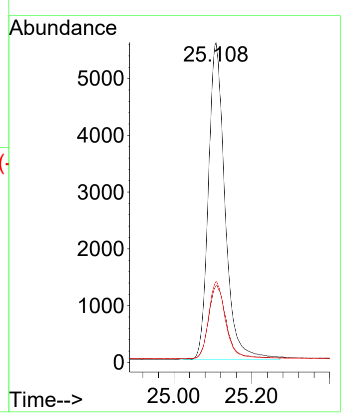


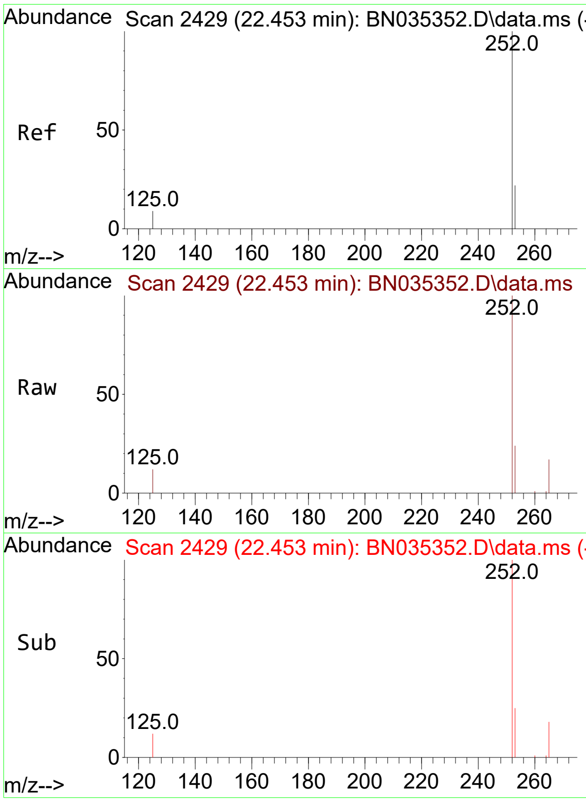


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



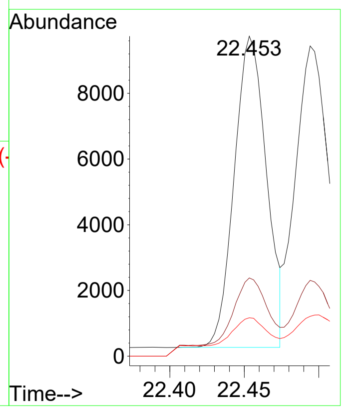


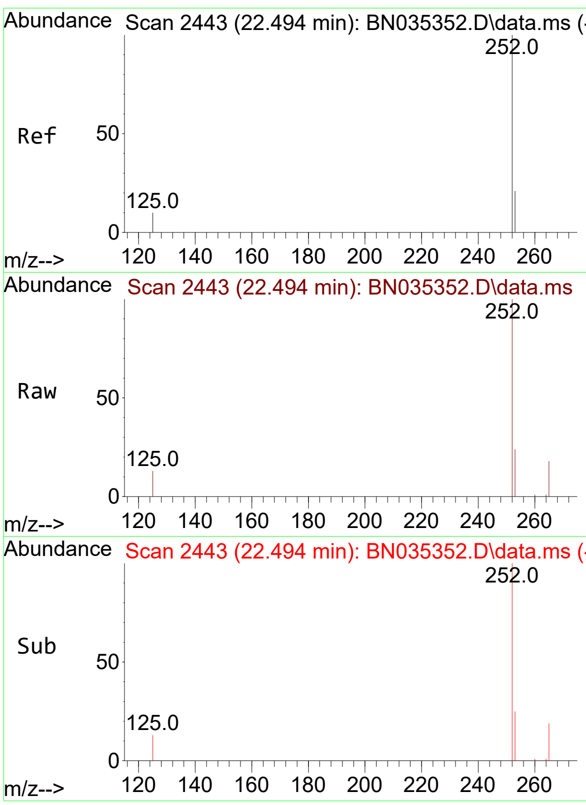
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

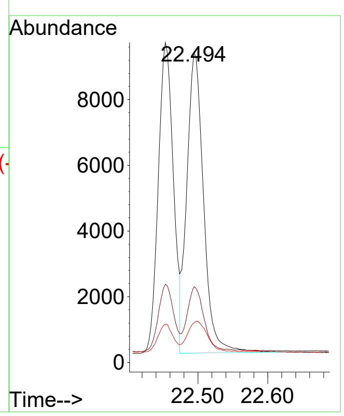


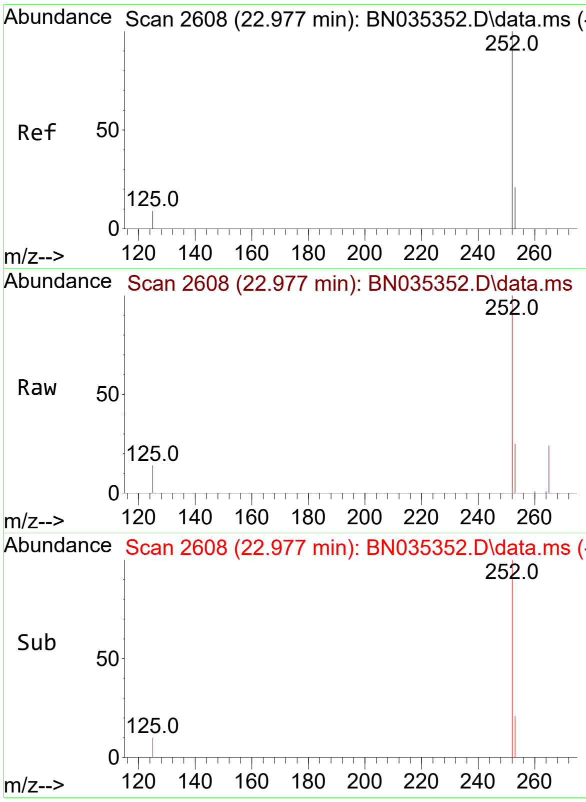


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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



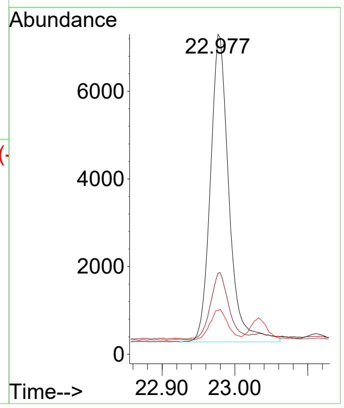


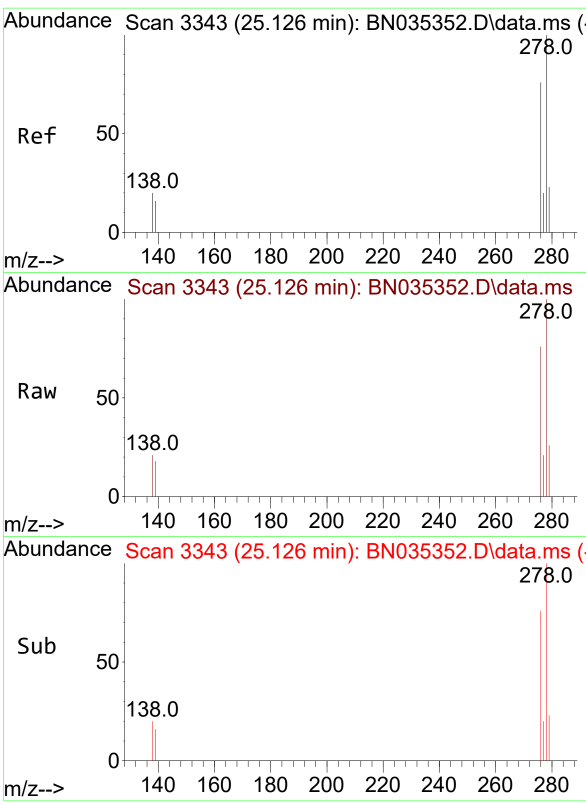
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

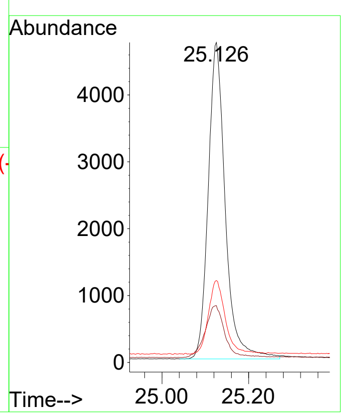


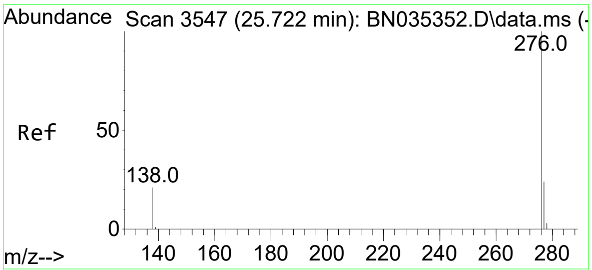


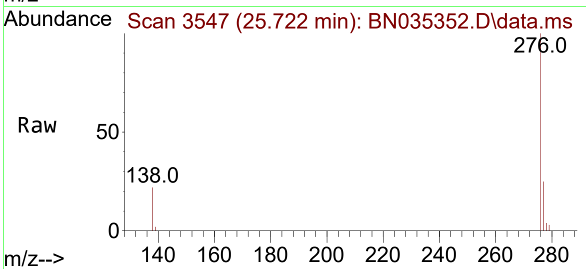
#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

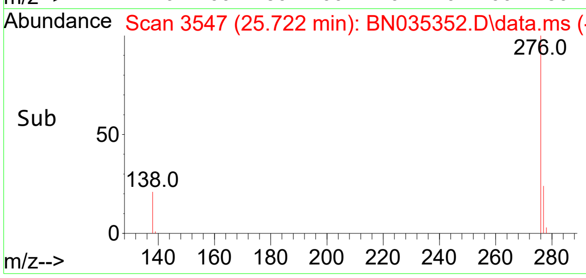
Tgt Ion:278 Resp: 12948

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







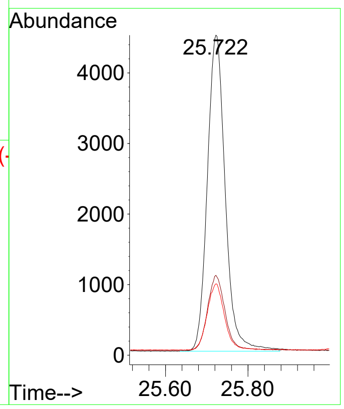


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

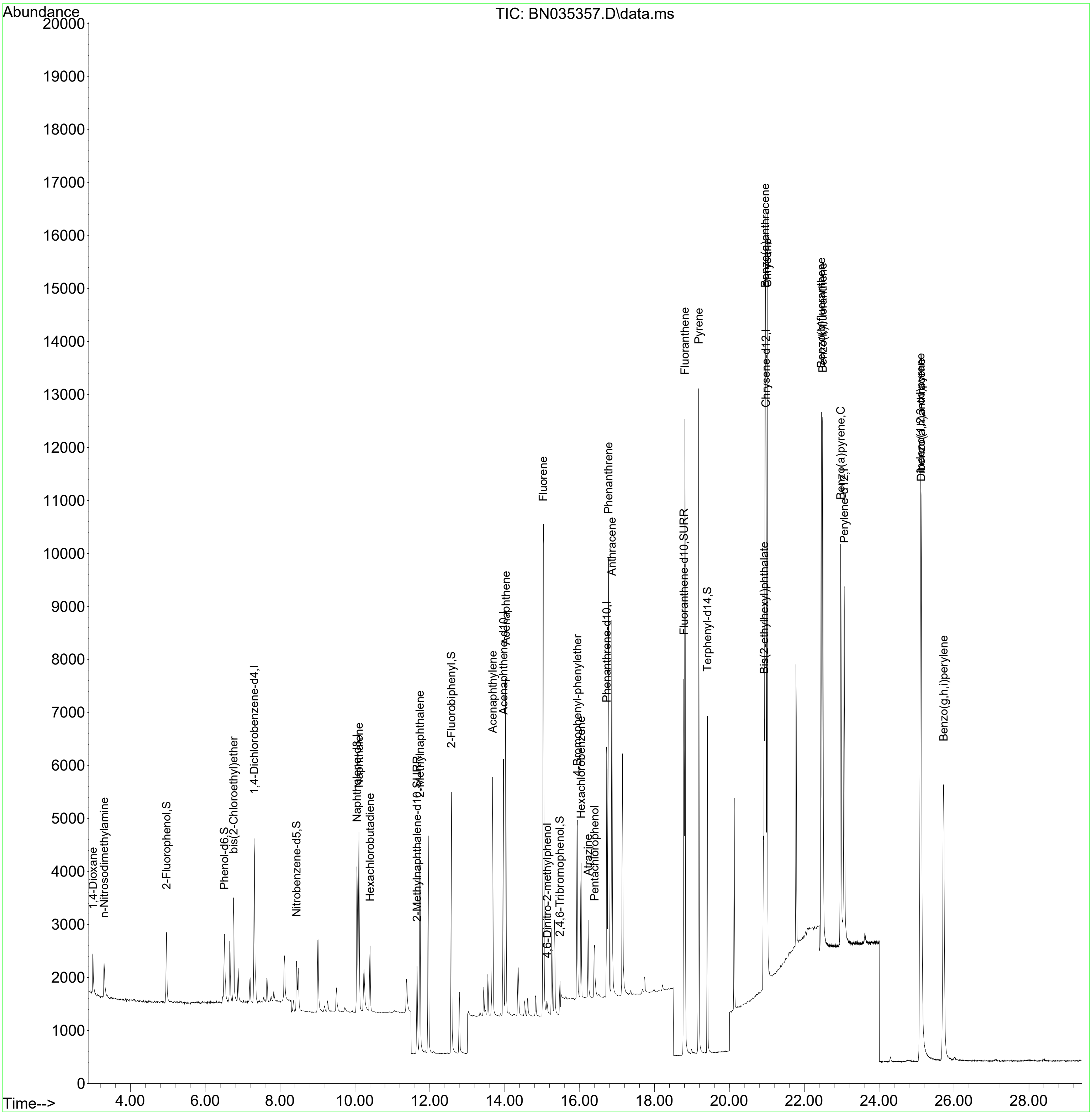
(#) = qualifier out of range (m) = manual integration (+) = signals summed

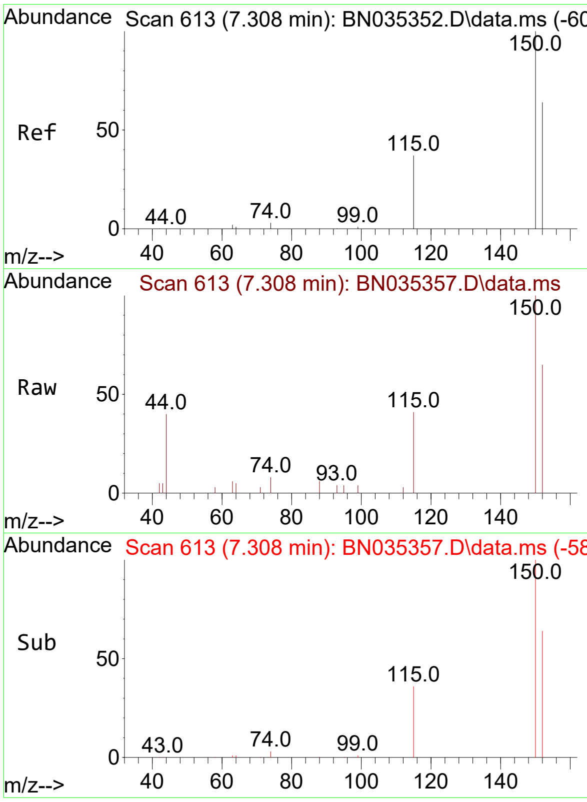
Quantitation Report (Not Reviewed)

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



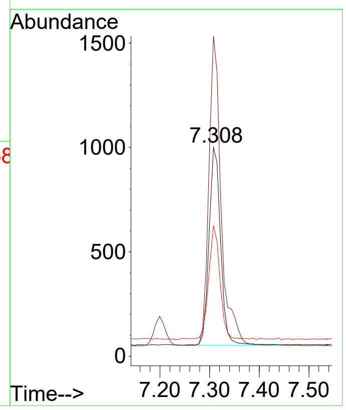


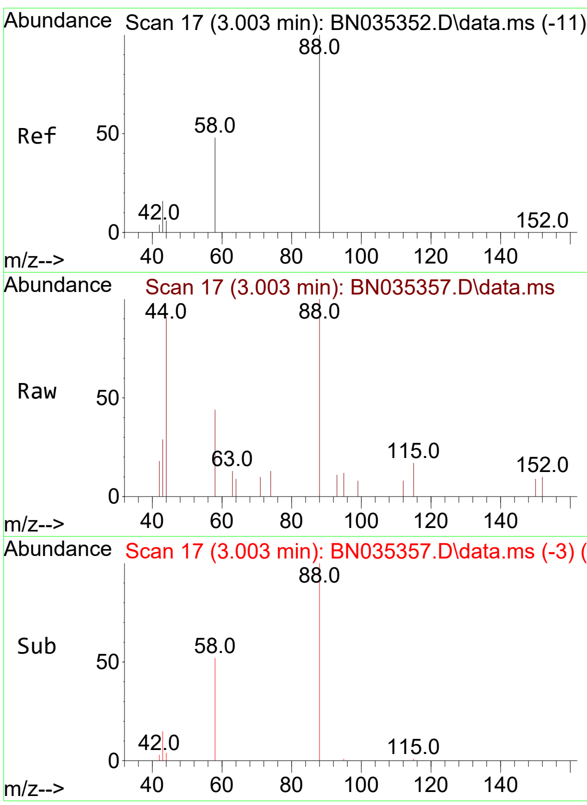
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

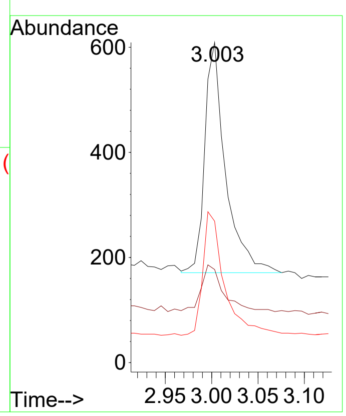


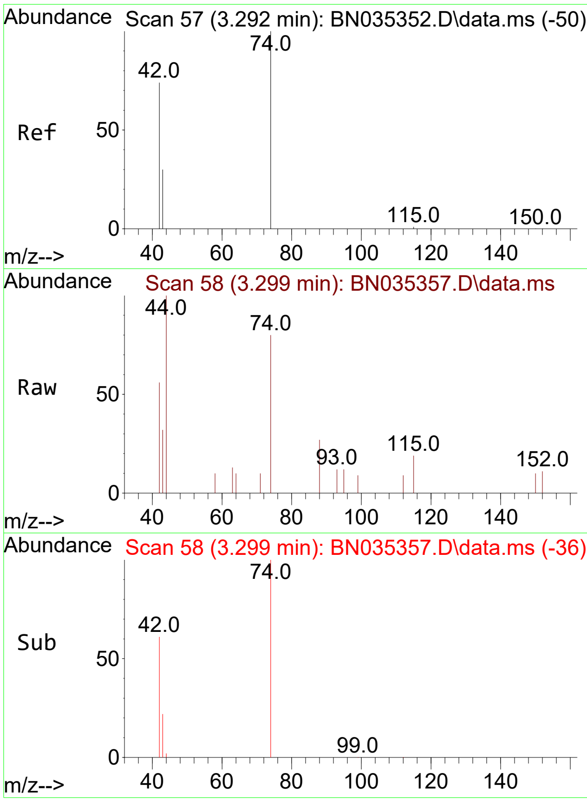


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



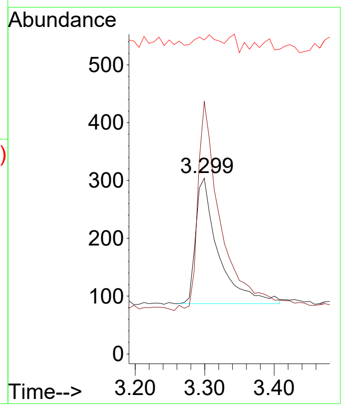


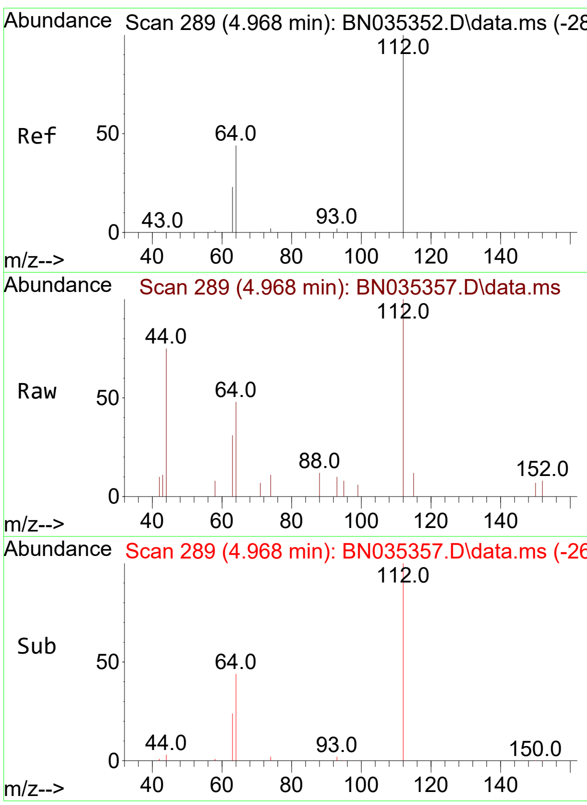
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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#

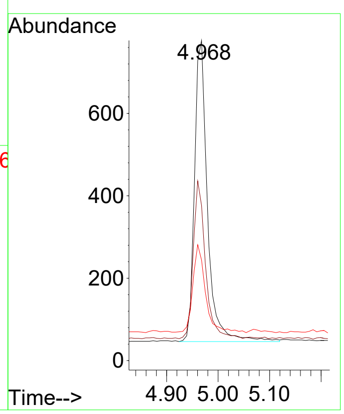


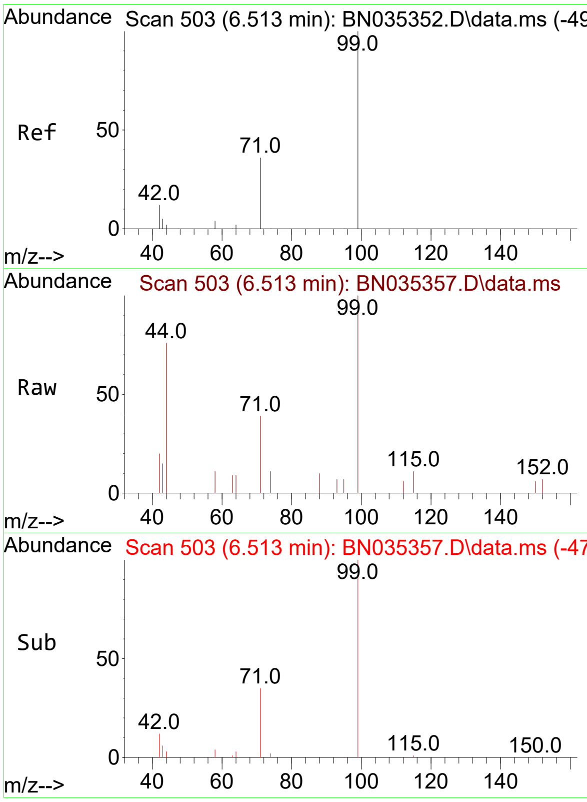


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



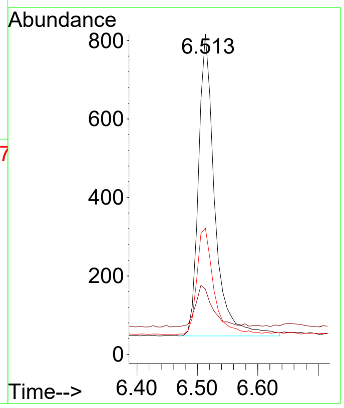


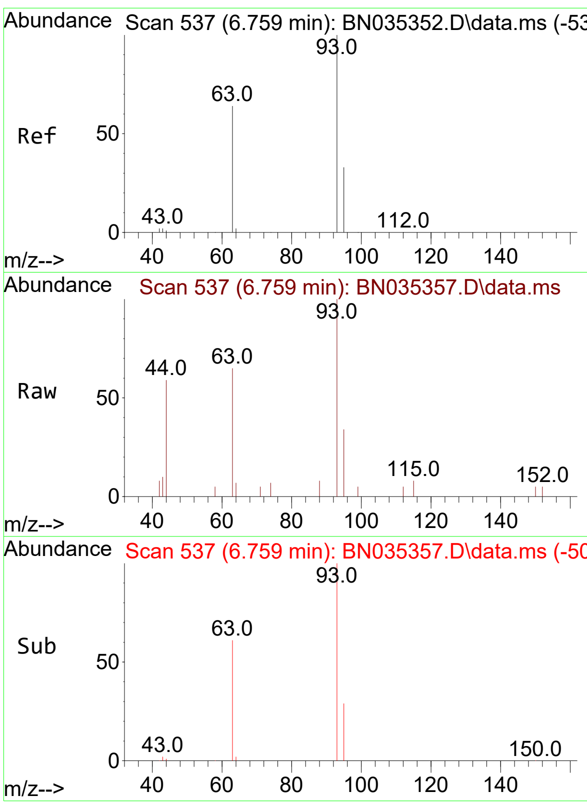
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min   Scan# 50
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024   20:21

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

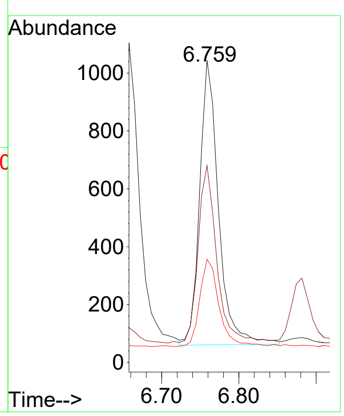


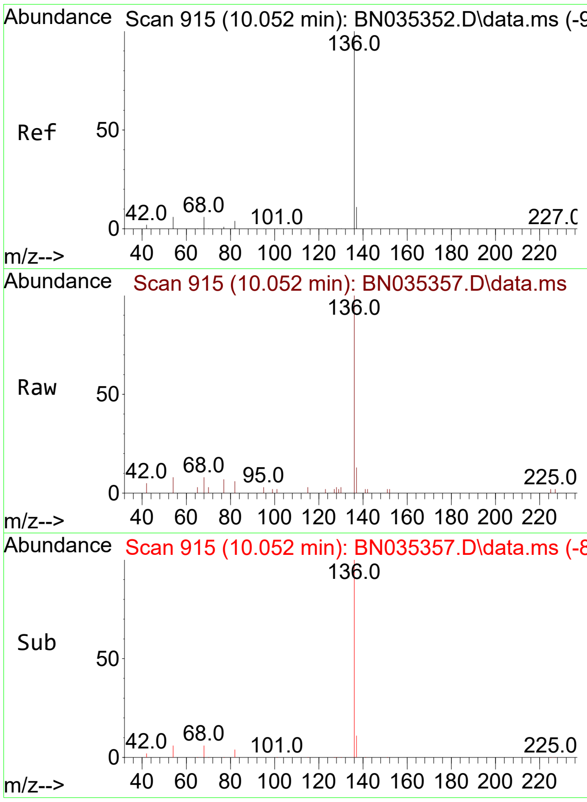


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min   Scan# 537
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024   20:21

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





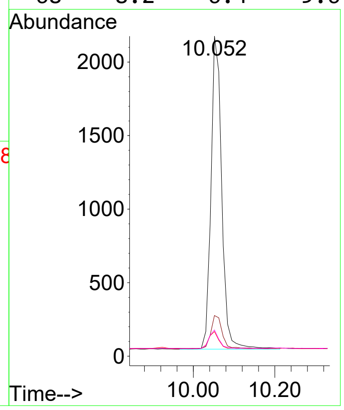
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9

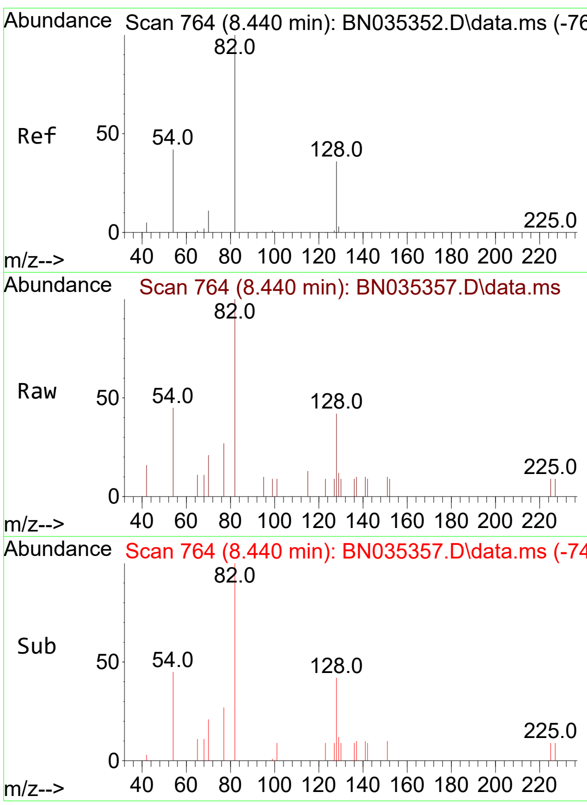
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

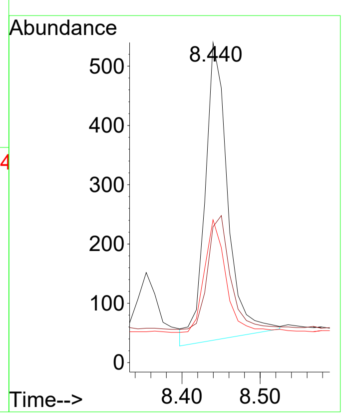


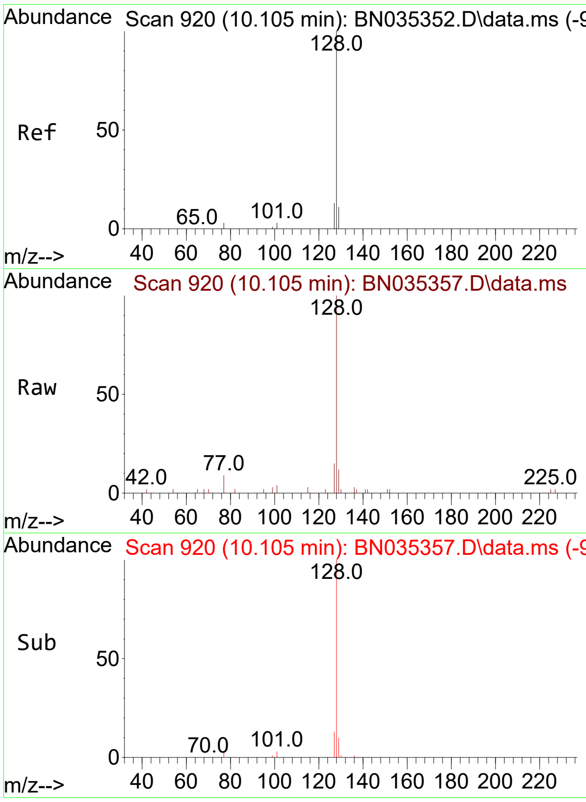


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



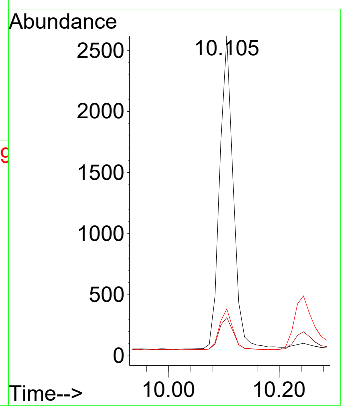


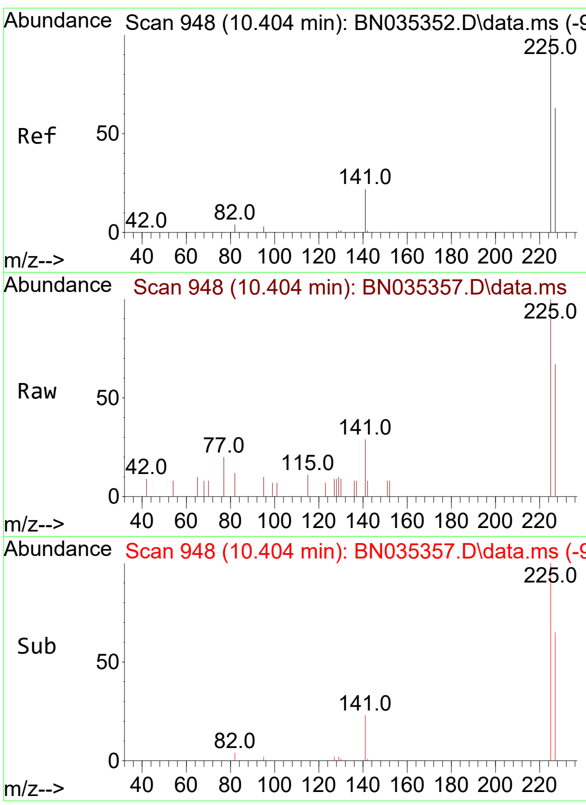
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

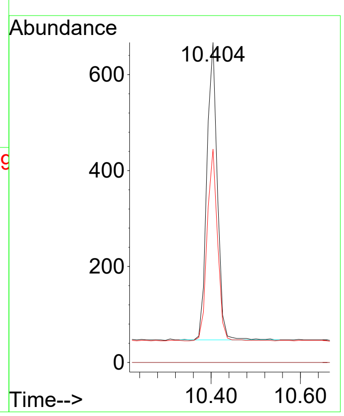


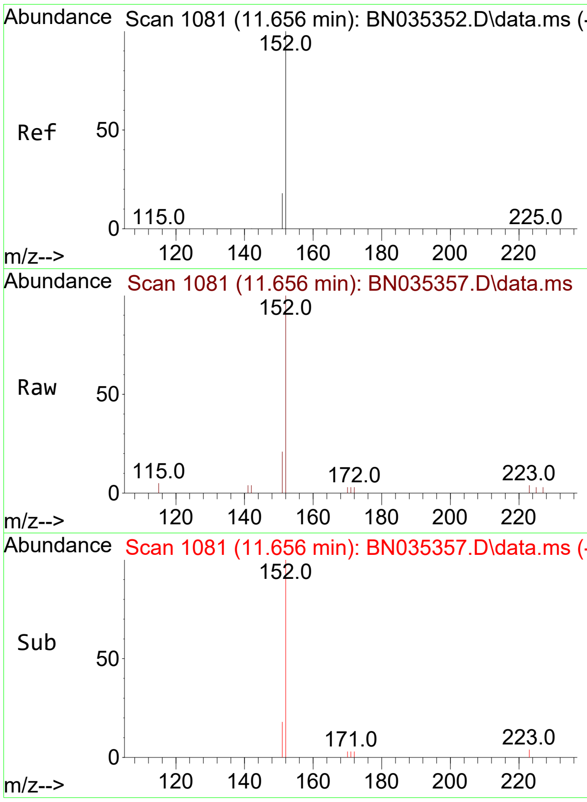


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



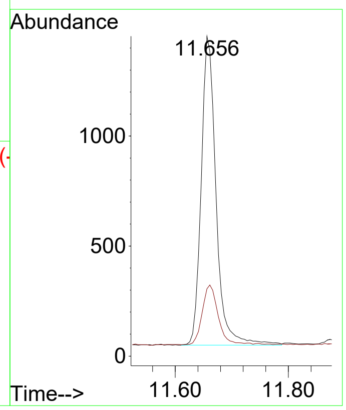


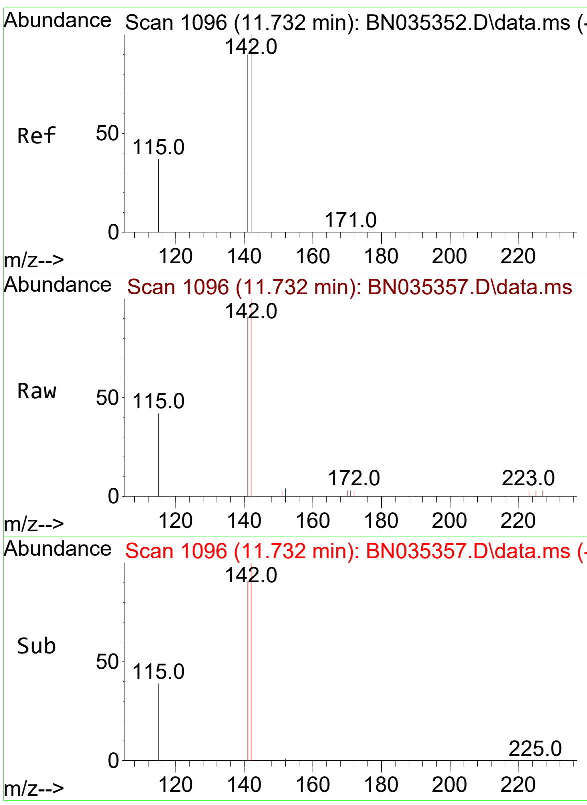
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 10
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

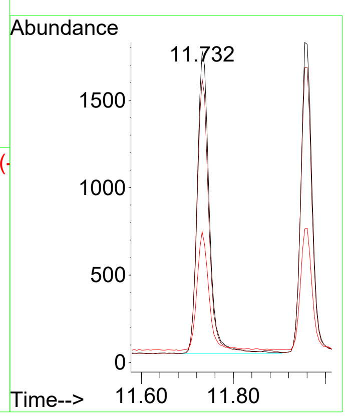


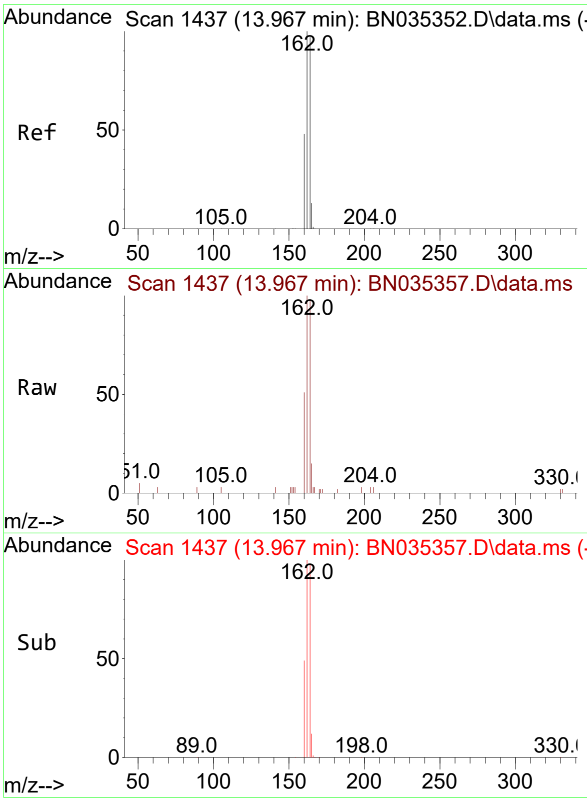


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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





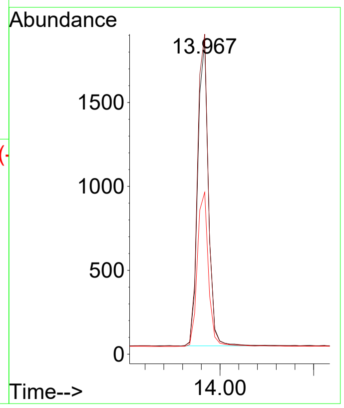
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14

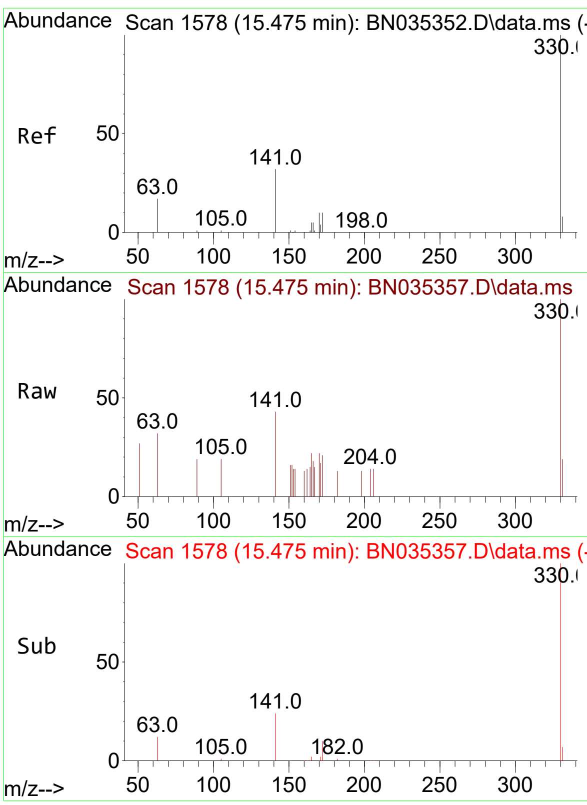
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

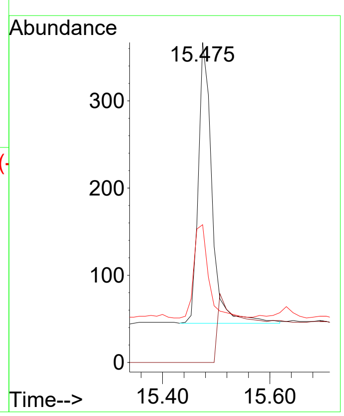


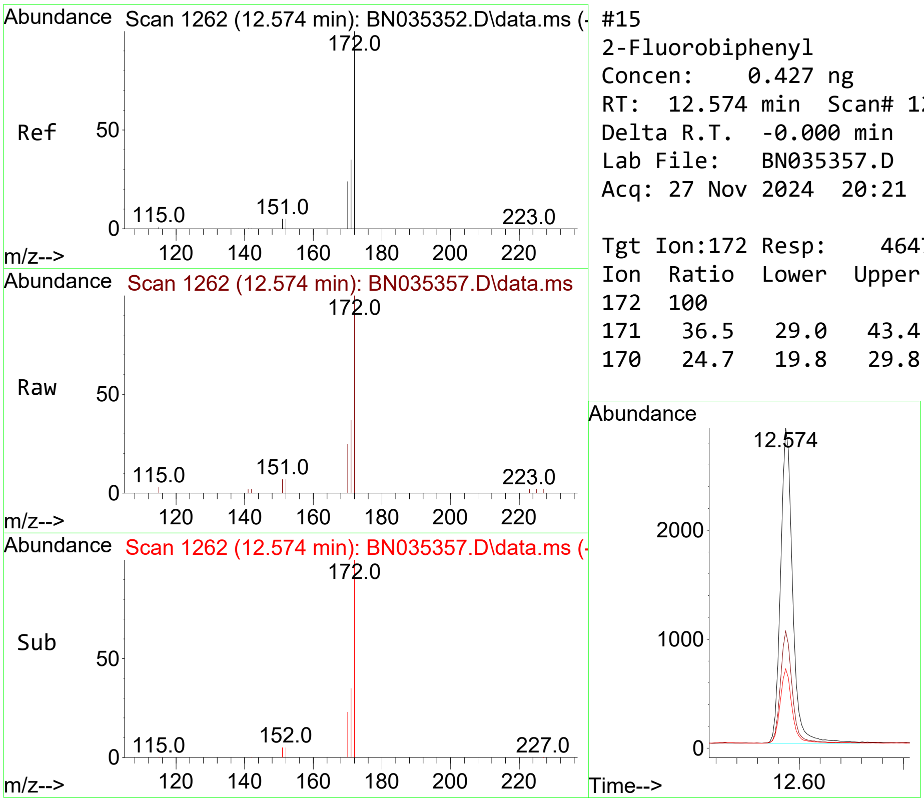


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



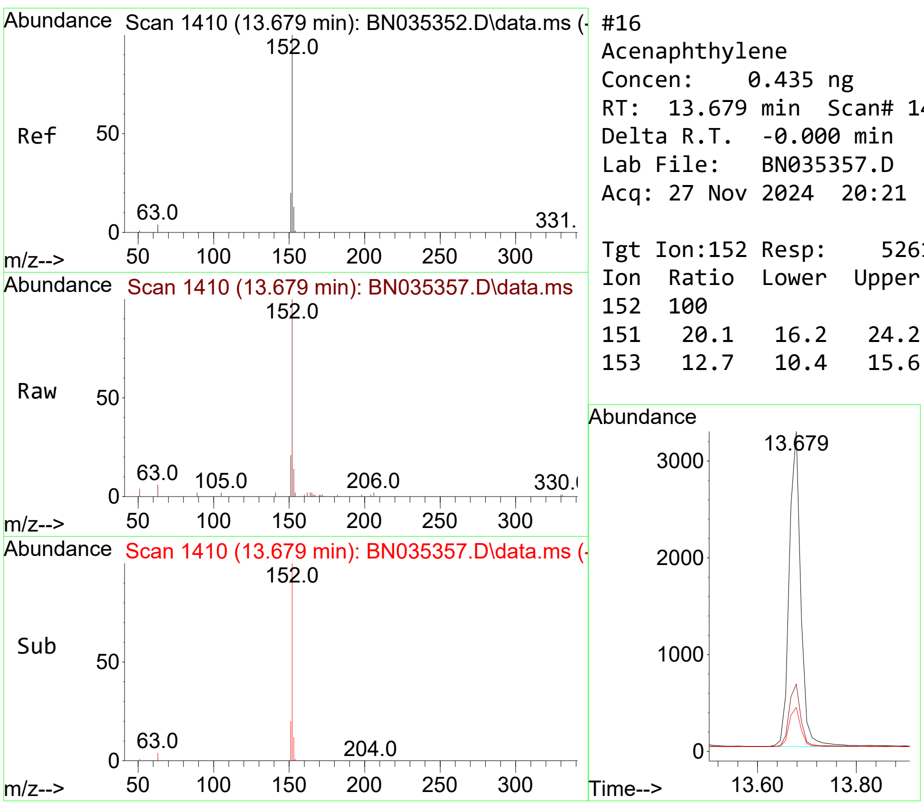


#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1262
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

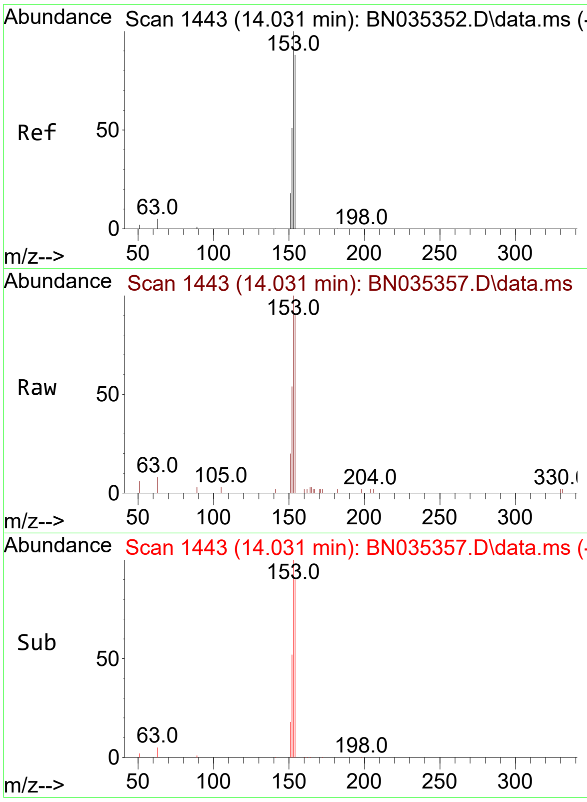
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



#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



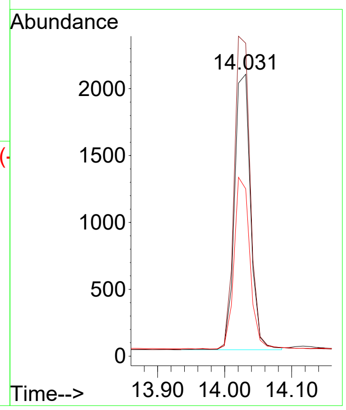
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14

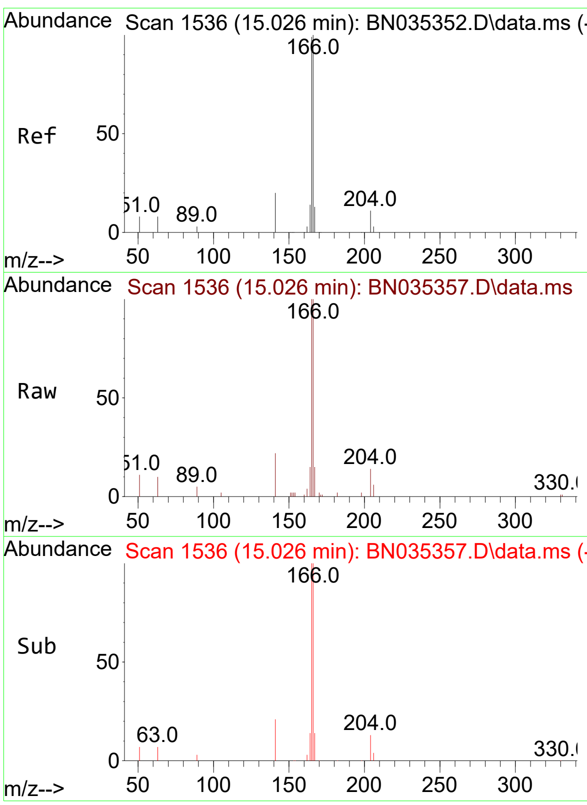
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

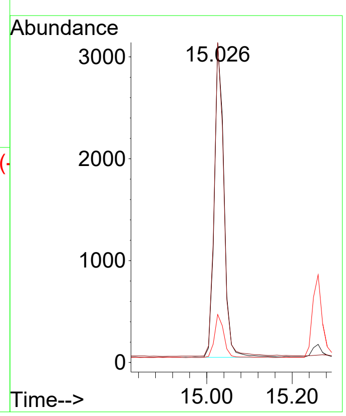


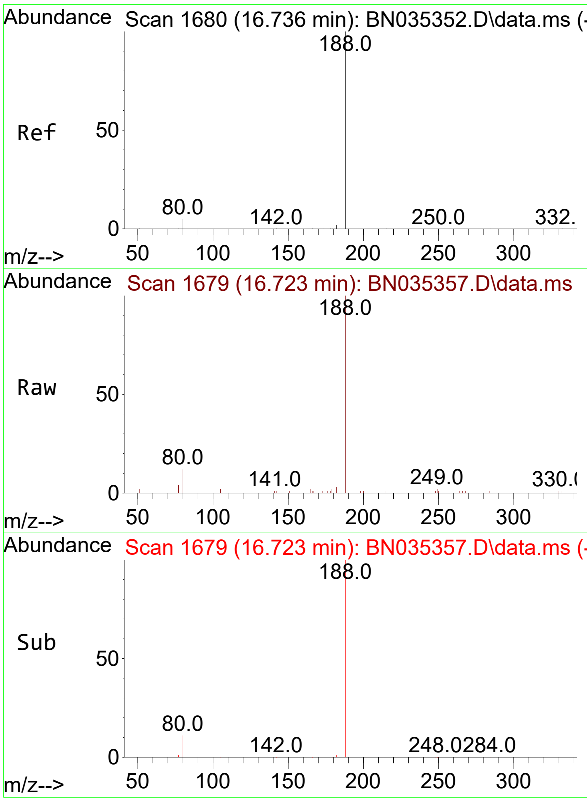


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



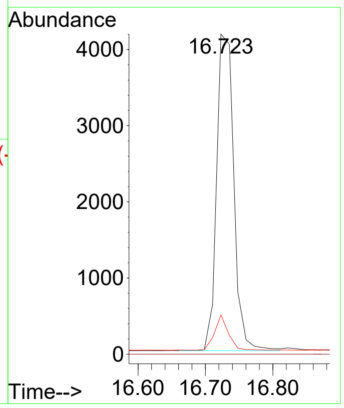


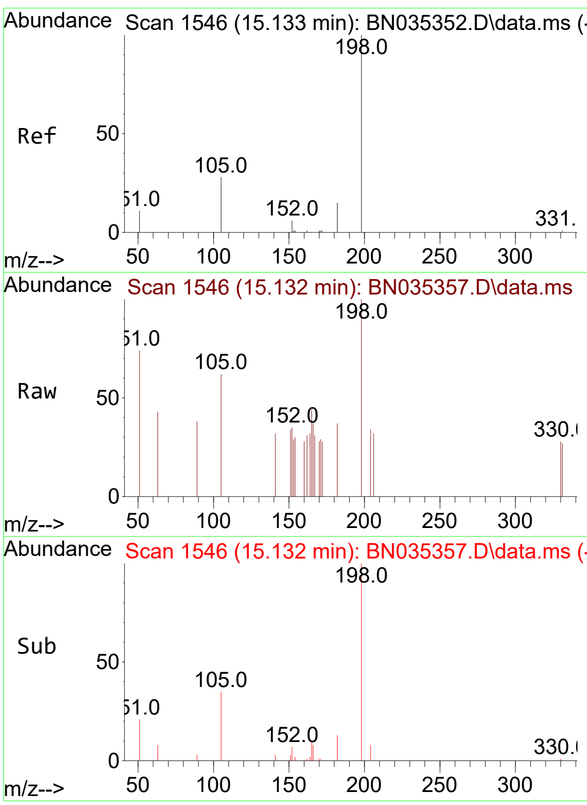
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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#

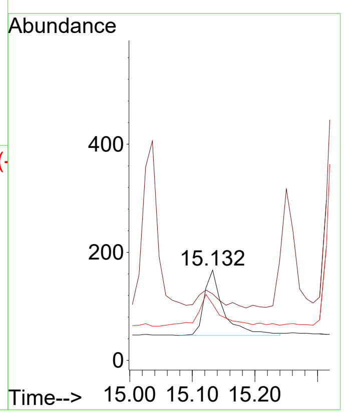


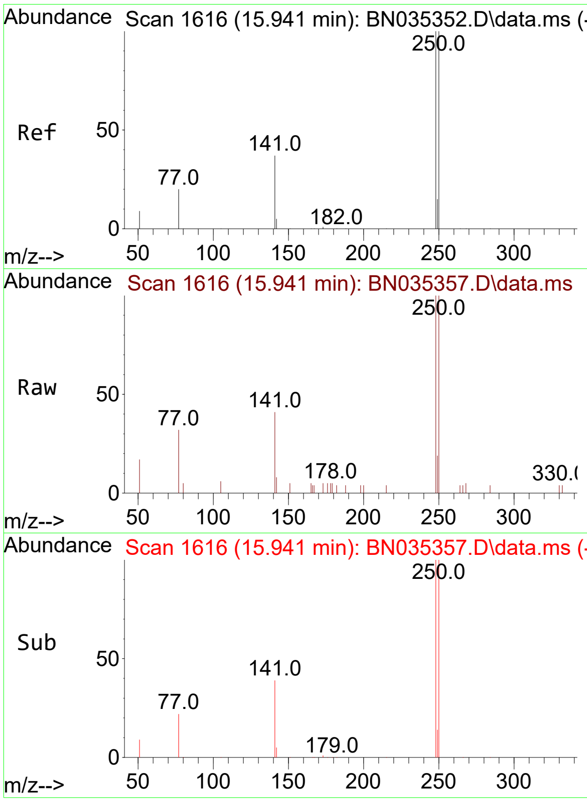


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



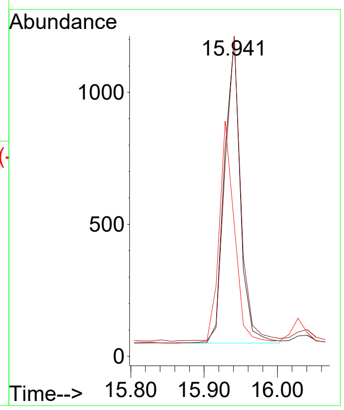


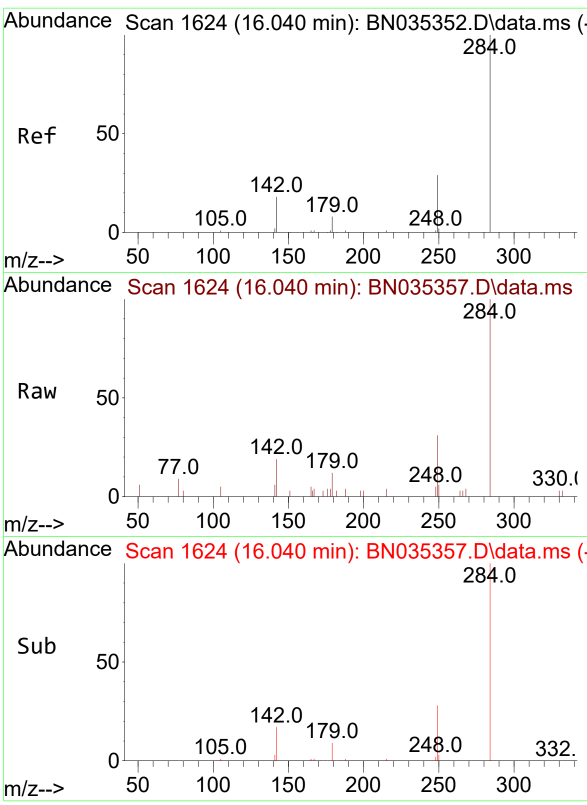
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

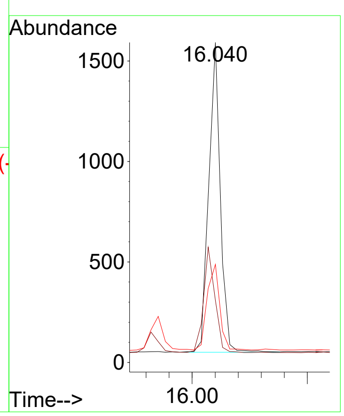


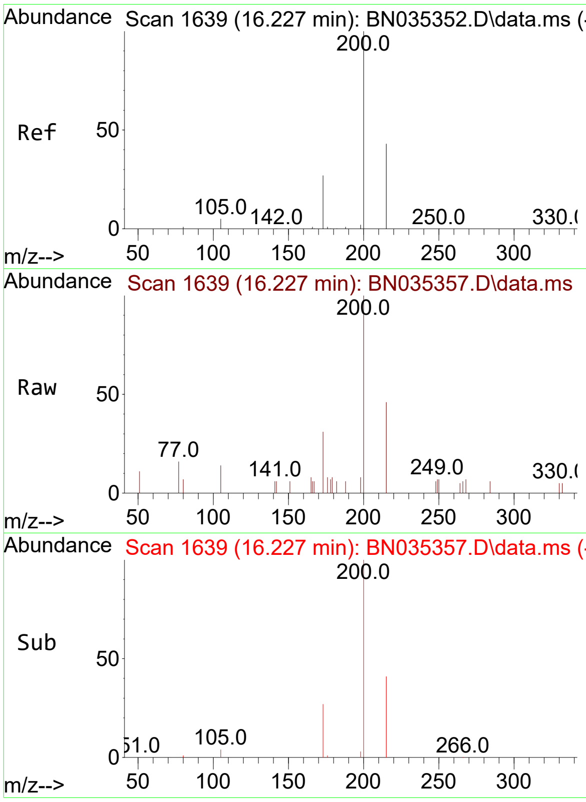


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



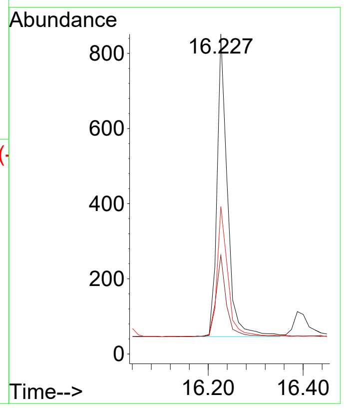


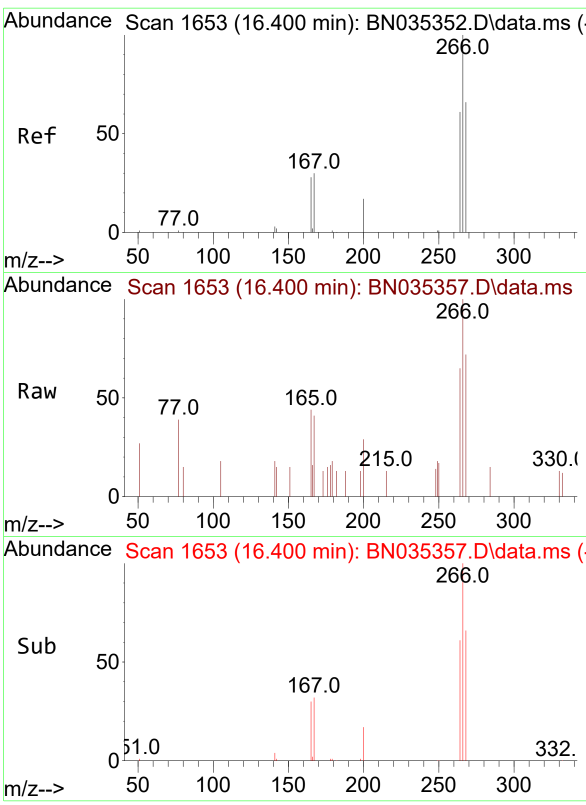
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

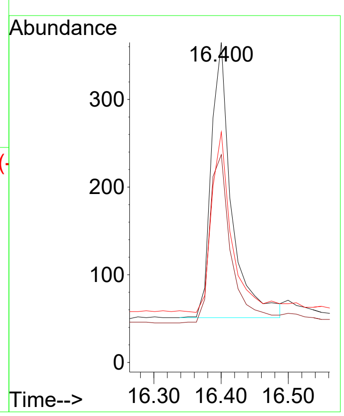


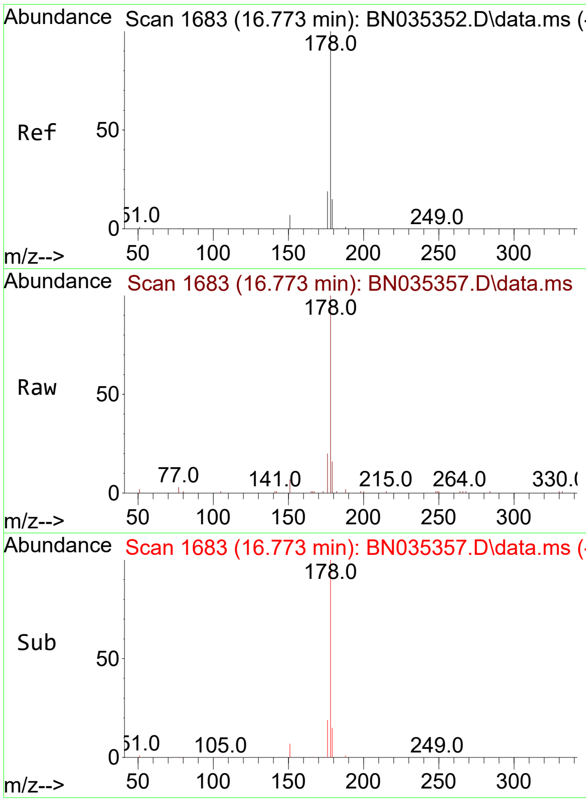


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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#



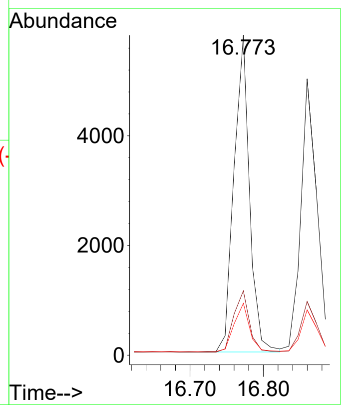


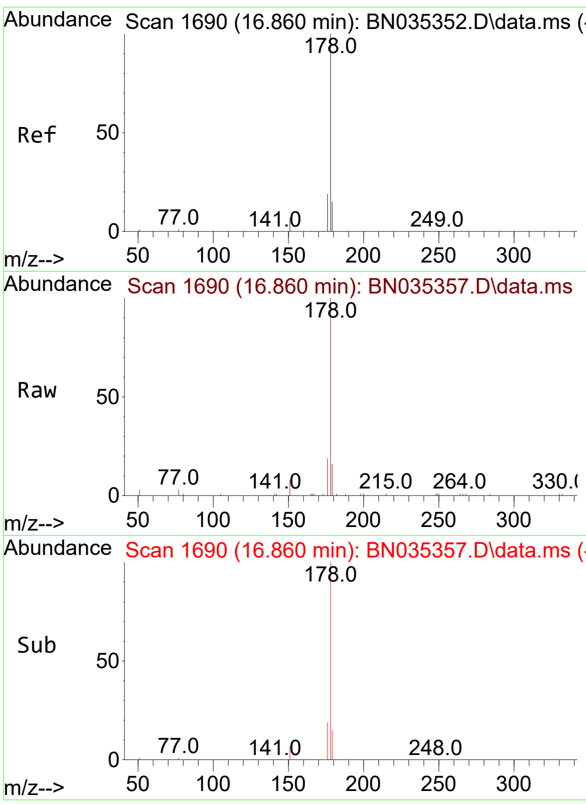
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

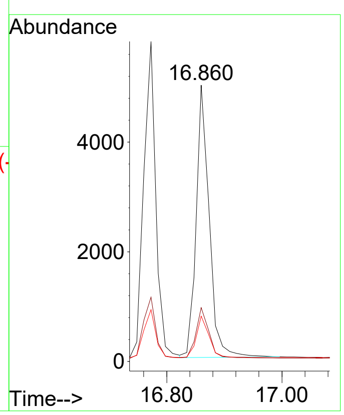


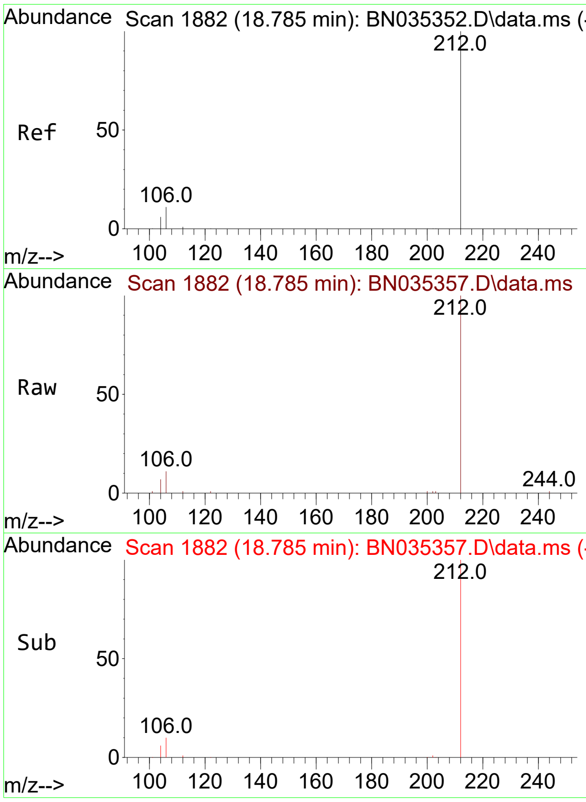


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



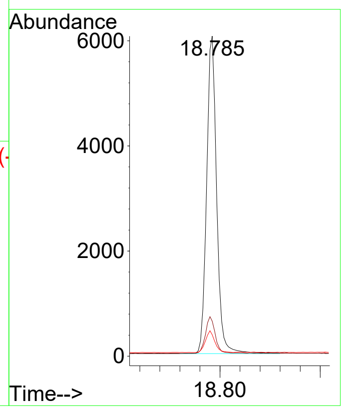


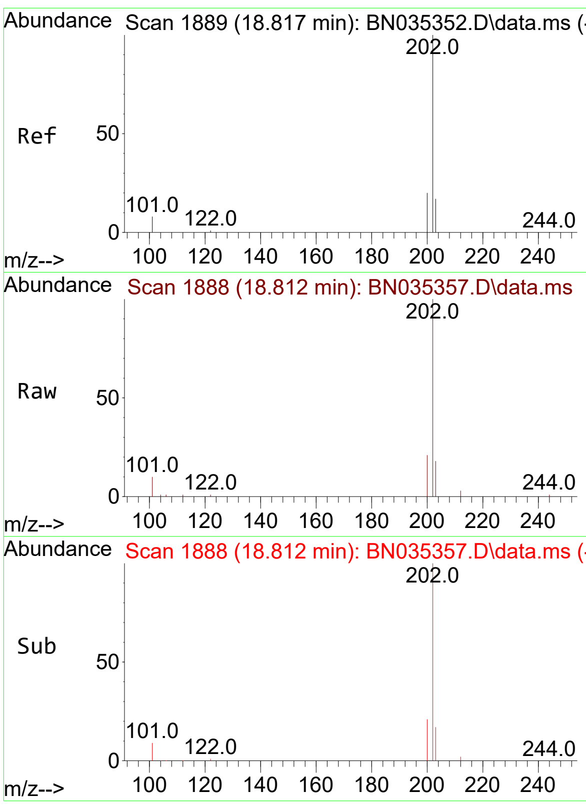
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

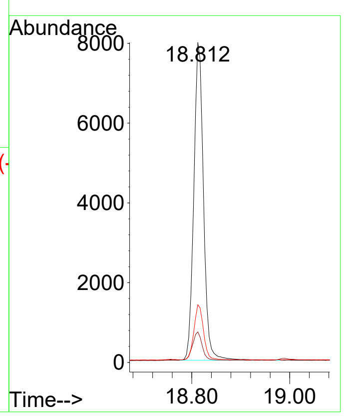


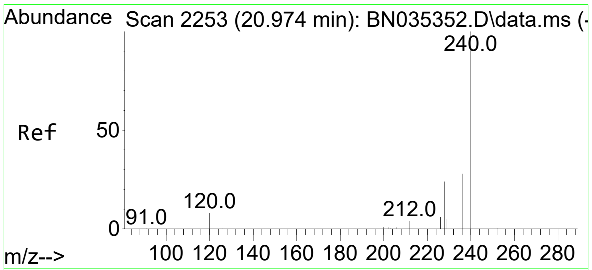


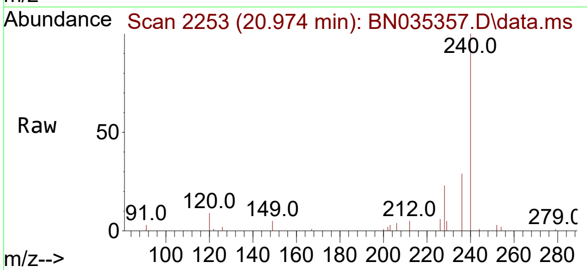
#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

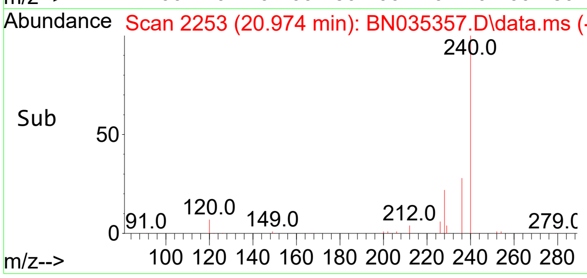
Tgt Ion:202 Resp: 10941

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









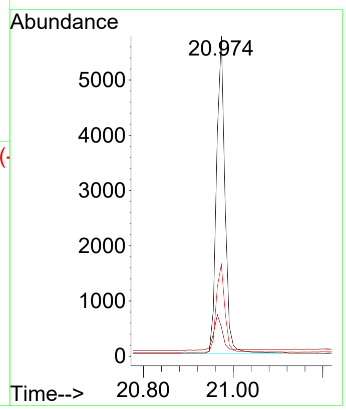
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2

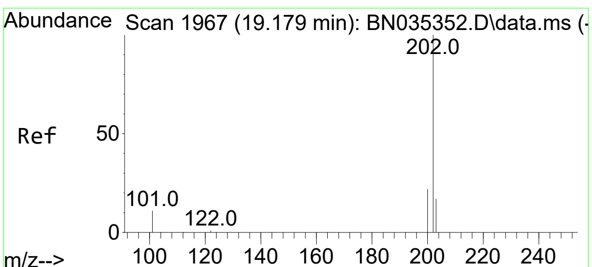
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

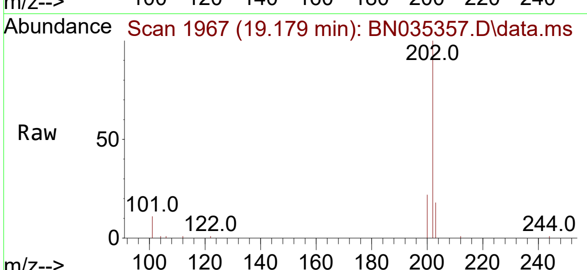
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

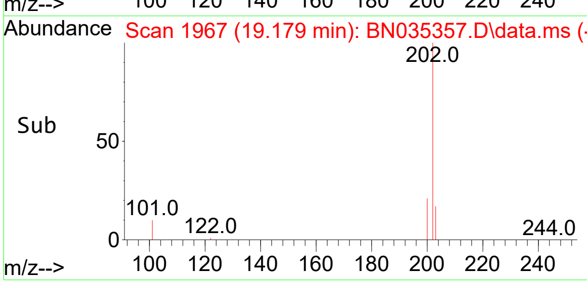
Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3





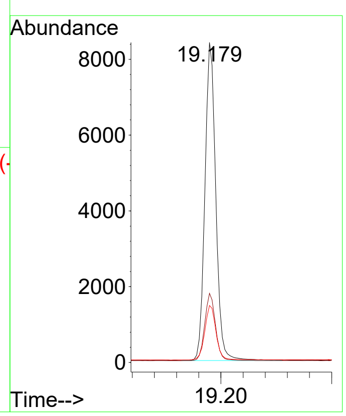


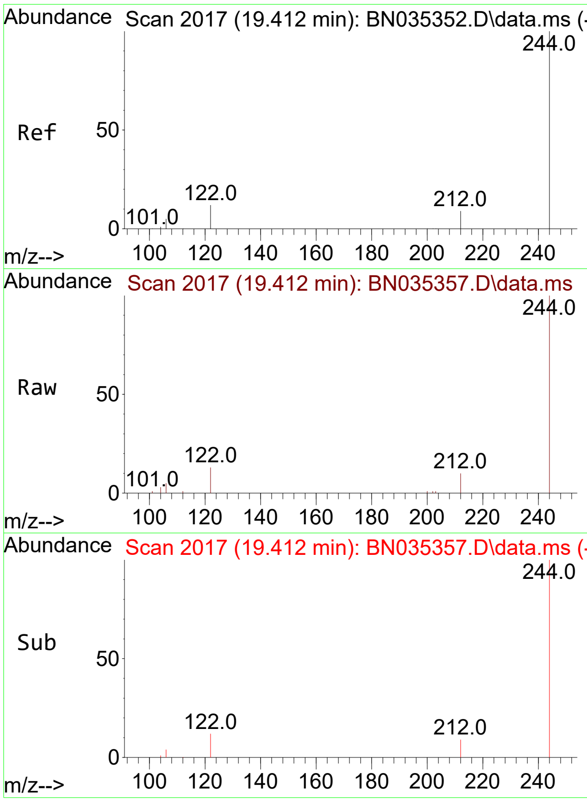


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



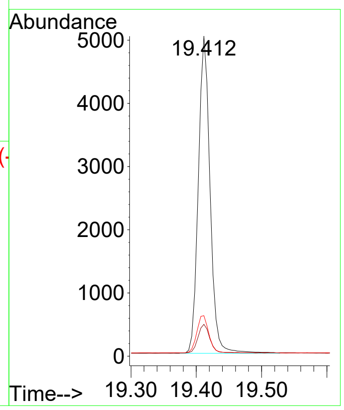


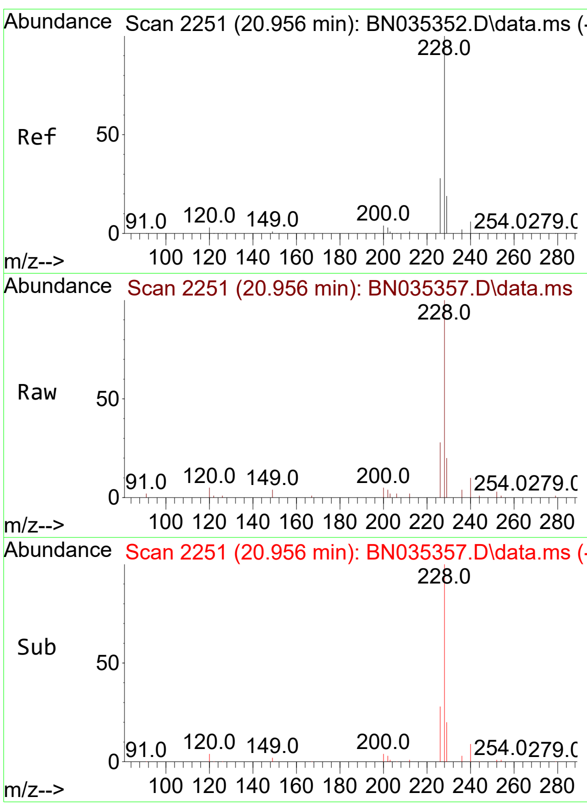
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

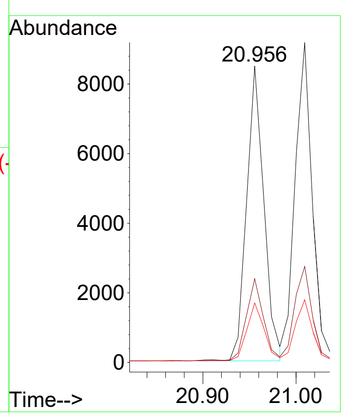


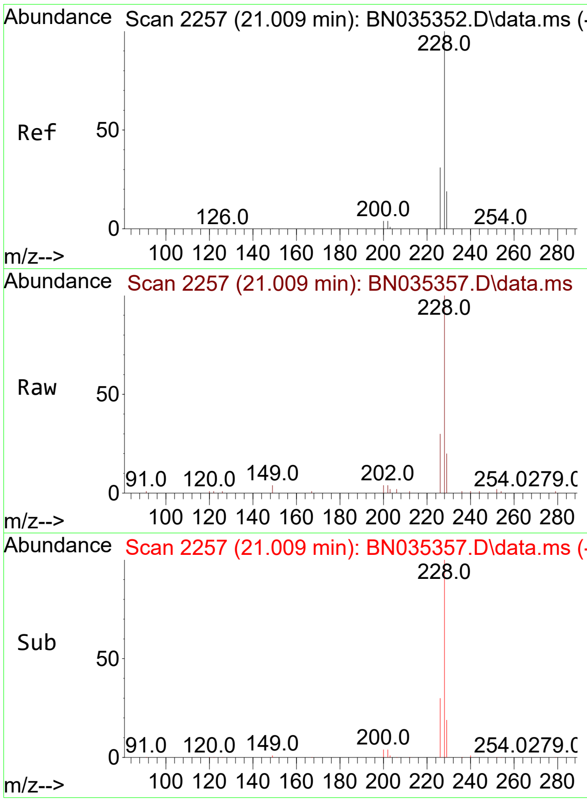


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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





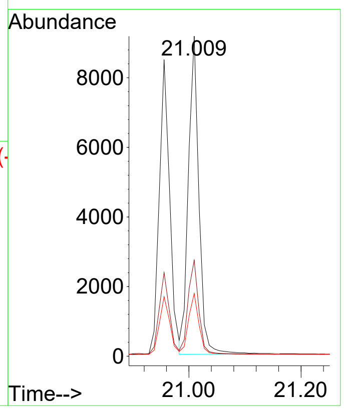
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2

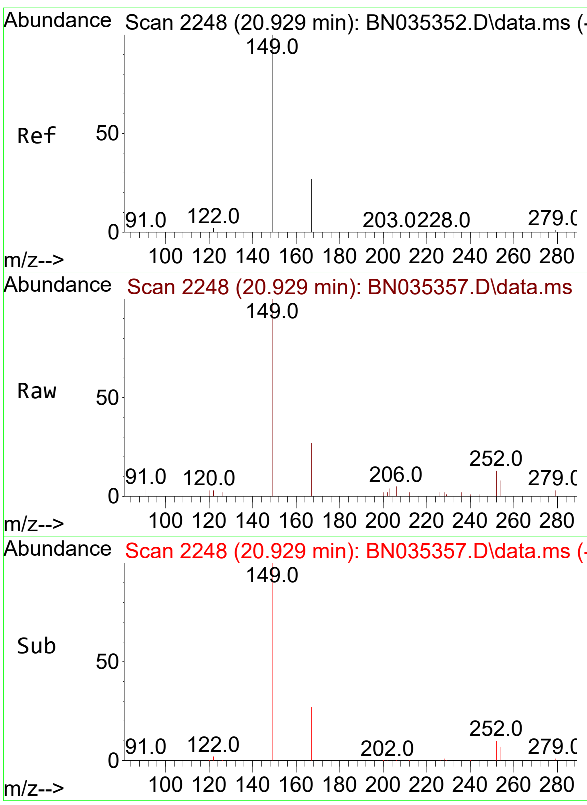
Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

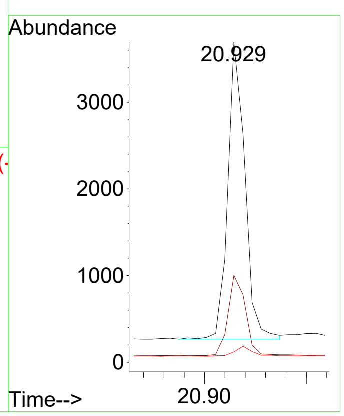


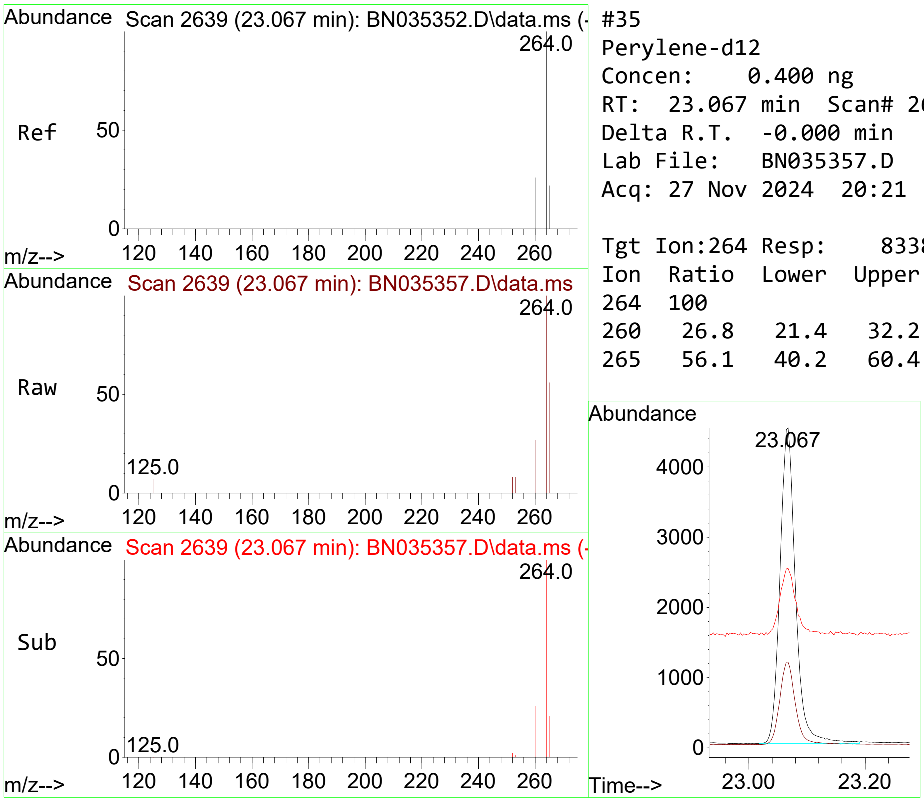


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



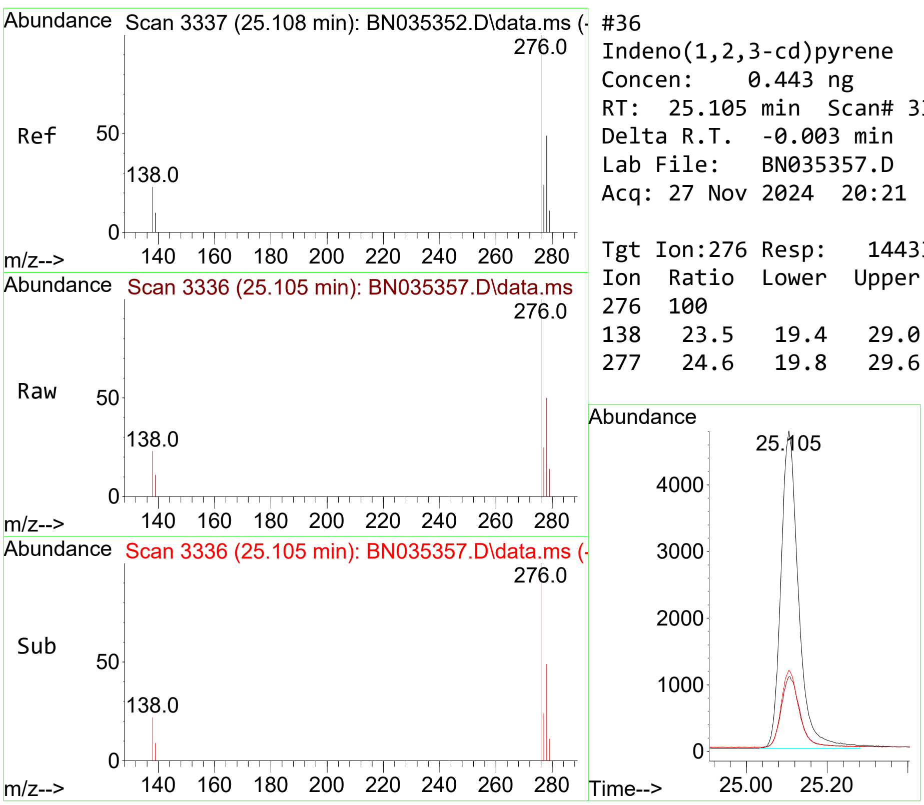


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T.   -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

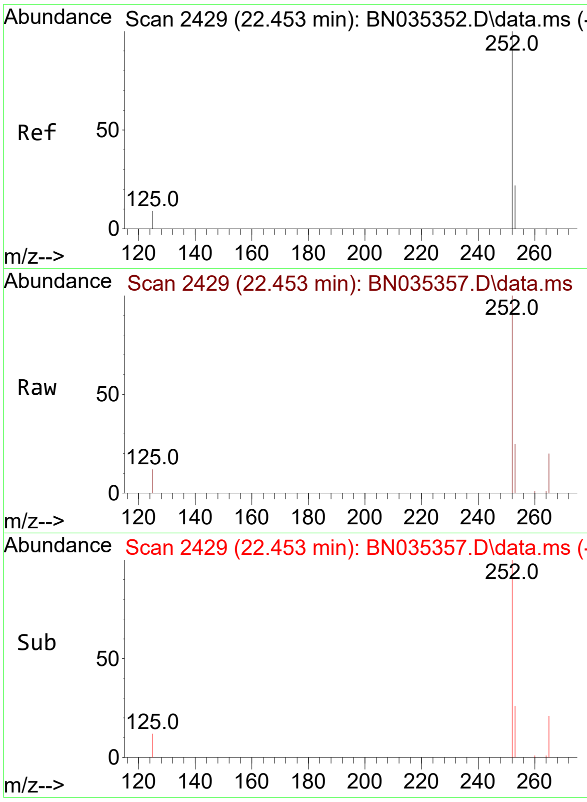
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



#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

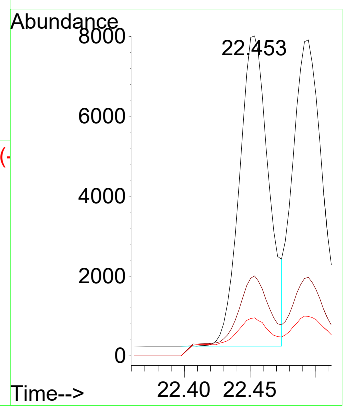


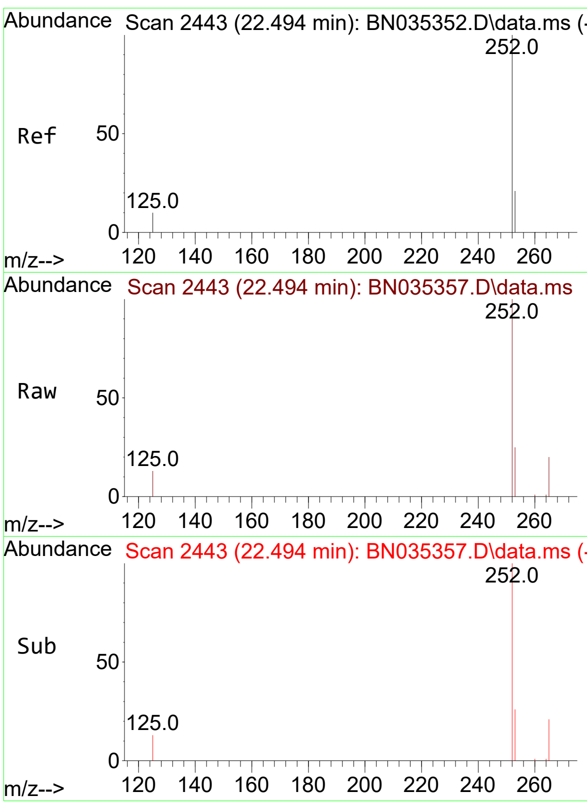
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

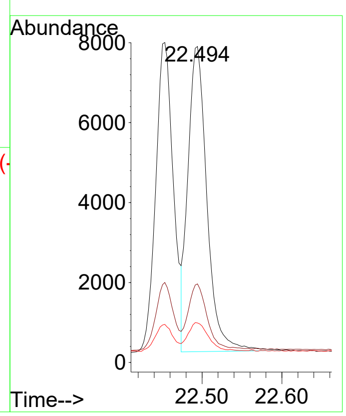


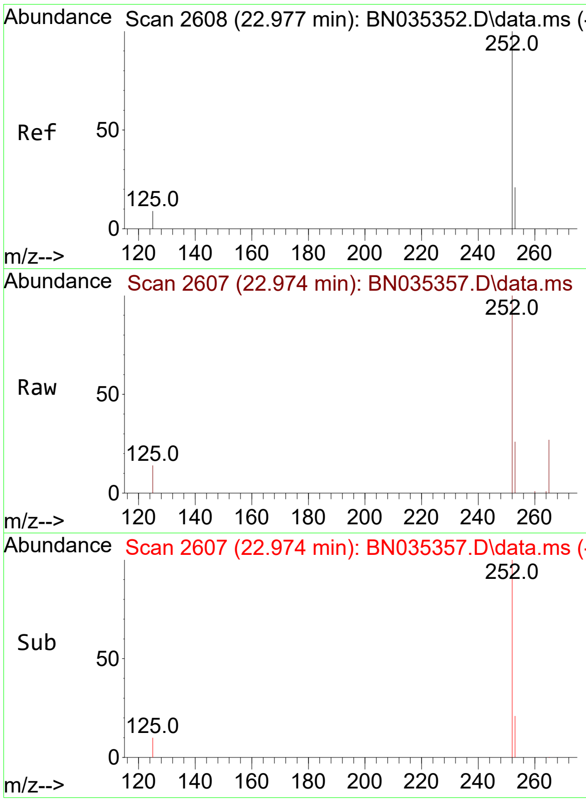


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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



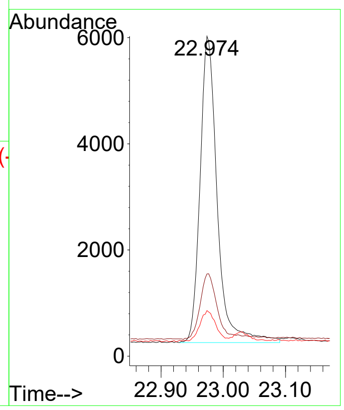


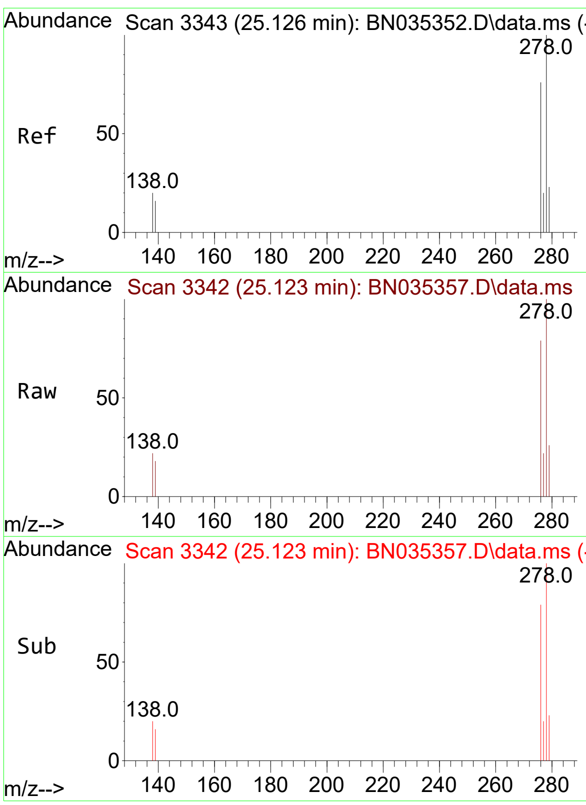
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2(
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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

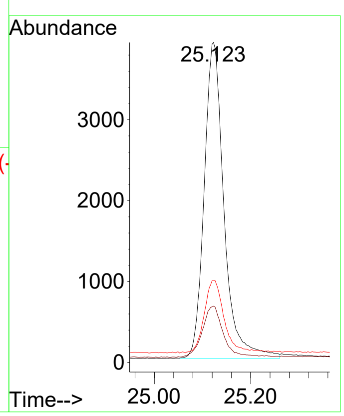


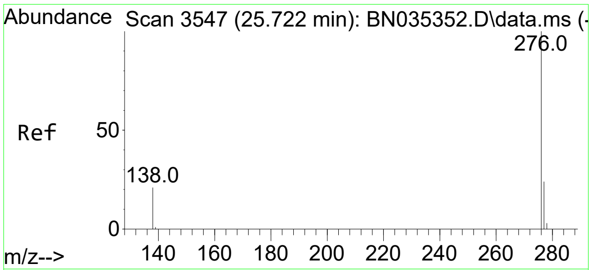


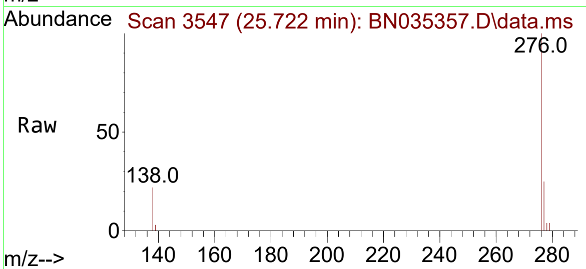
#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

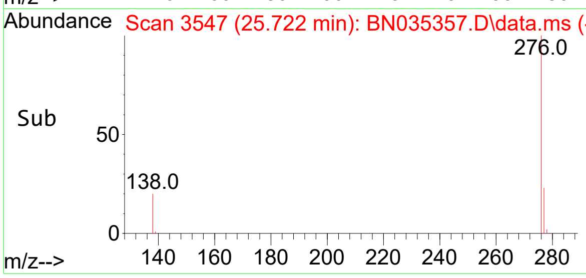
Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7







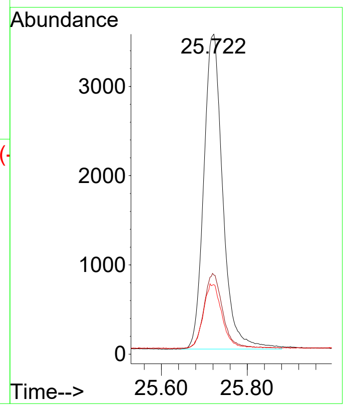


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3972	0.400	ng	0.00
7) Naphthalene-d8	9.998	136	9483	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	5387	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10855	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	8569	0.400	ng	0.00
35) Perylene-d12	23.029	264	8879	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3699	0.372	ng	-0.01
5) Phenol-d6	6.470	99	5118	0.428	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3046	0.526	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5128	0.346	ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1155	0.302	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	8203	0.403	ng	-0.01
27) Fluoranthene-d10	18.752	212	10340	0.336	ng	0.00
31) Terphenyl-d14	19.384	244	6888	0.407	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1814	0.478	ng	98
3) n-Nitrosodimethylamine	3.270	42	1302	0.412	ng	# 91
6) bis(2-Chloroethyl)ether	6.715	93	3672	0.366	ng	99
9) Naphthalene	10.052	128	9671	0.387	ng	99
10) Hexachlorobutadiene	10.340	225	2548	0.442	ng	# 100
12) 2-Methylnaphthalene	11.686	142	6060	0.338	ng	100
16) Acenaphthylene	13.636	152	8415	0.372	ng	100
17) Acenaphthene	13.978	154	5782	0.385	ng	99
18) Fluorene	14.993	166	7456	0.347	ng	100
20) 4,6-Dinitro-2-methylph...	15.122	198	244	0.229	ng	# 7
21) 4-Bromophenyl-phenylether	15.904	248	2379	0.375	ng	# 93
22) Hexachlorobenzene	16.003	284	3393	0.455	ng	97
23) Atrazine	16.202	200	1640	0.363	ng	96
24) Pentachlorophenol	16.363	266	1040	0.321	ng	87
25) Phenanthrene	16.735	178	10950	0.367	ng	99
26) Anthracene	16.835	178	9488	0.352	ng	100
28) Fluoranthene	18.780	202	13421	0.334	ng	99
30) Pyrene	19.151	202	13577	0.429	ng	100
32) Benzo(a)anthracene	20.929	228	9796	0.327	ng	99
33) Chrysene	20.982	228	13234	0.428	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4719	0.399	ng	100
36) Indeno(1,2,3-cd)pyrene	25.049	276	12494	0.360	ng	99
37) Benzo(b)fluoranthene	22.418	252	16964	0.522	ng	# 95
38) Benzo(k)fluoranthene	22.418	252	17845	0.558	ng	96
39) Benzo(a)pyrene	22.939	252	10000	0.374	ng	# 91
40) Dibenzo(a,h)anthracene	25.073	278	8960	0.327	ng	94
41) Benzo(g,h,i)perylene	25.658	276	11606	0.405	ng	99

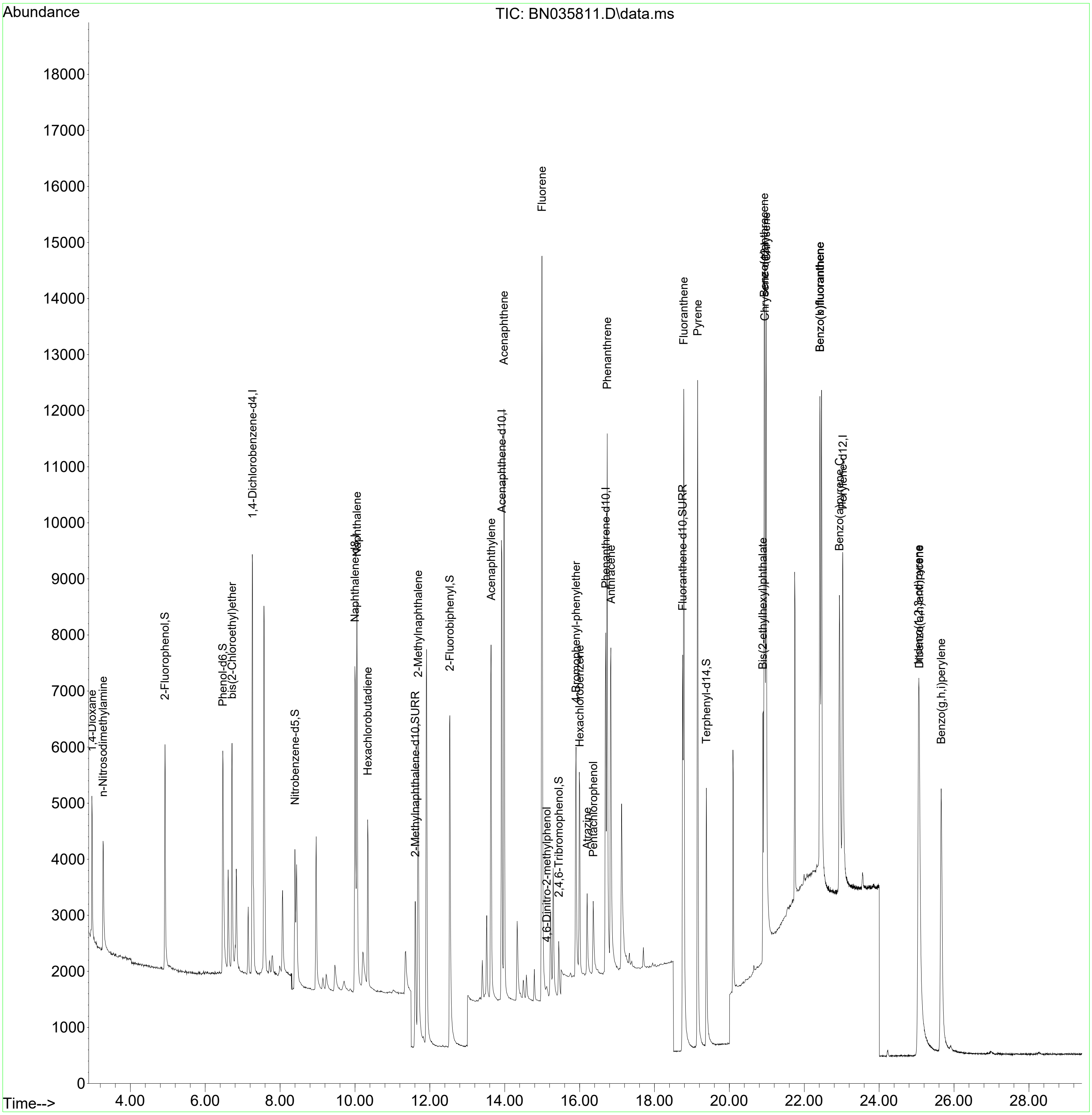
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

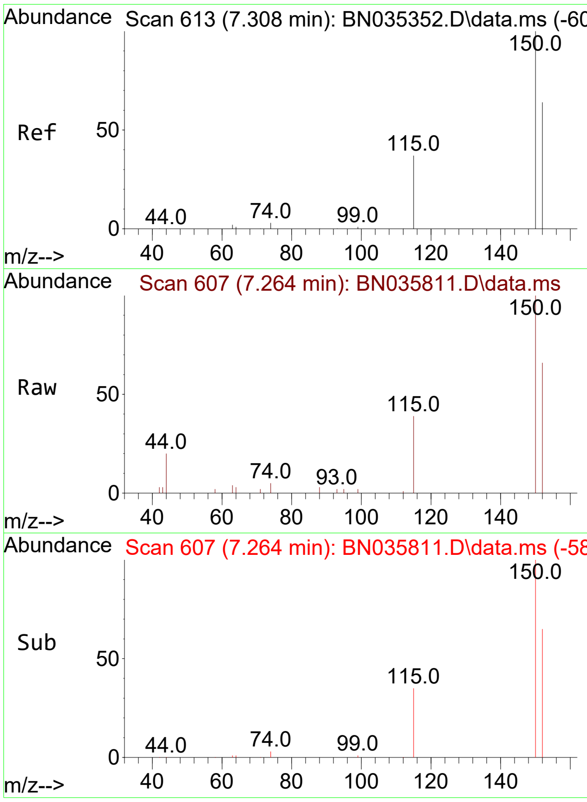
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035811.D
Acq On : 24 Dec 2024 08:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 24 23:16:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



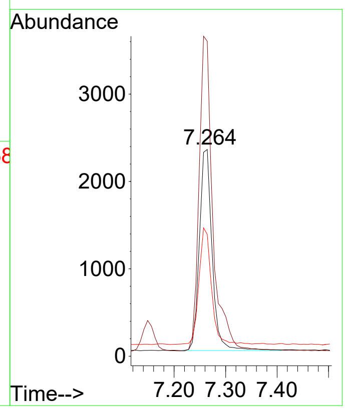
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

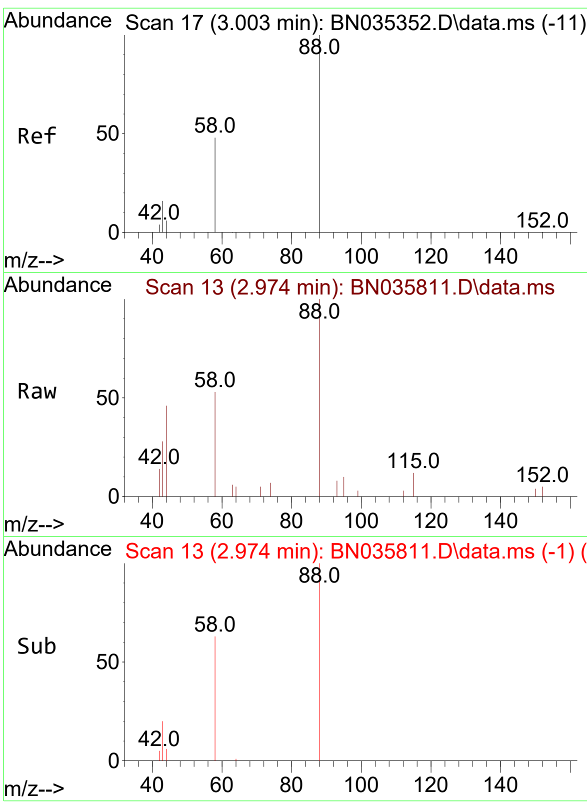


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 60
Delta R.T. -0.008 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 3972

Ion	Ratio	Lower	Upper
152	100		
150	152.3	124.0	186.0
115	58.9	49.6	74.4

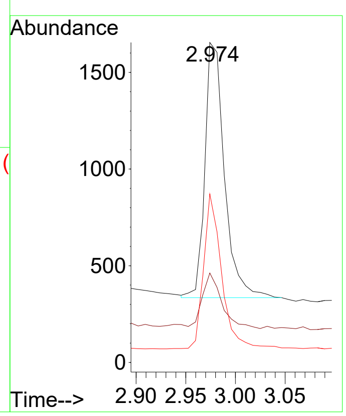


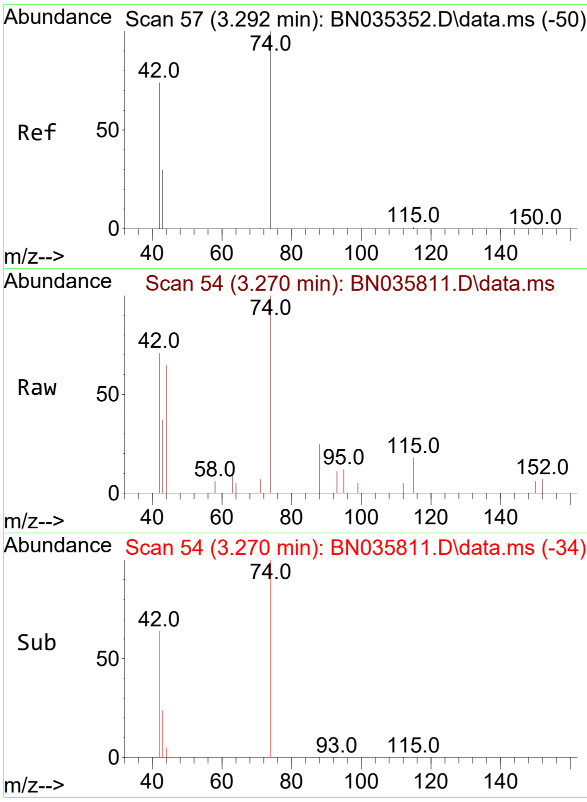


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 88 Resp: 1814

Ion	Ratio	Lower	Upper
88	100		
43	23.2	17.2	25.8
58	56.2	44.5	66.7



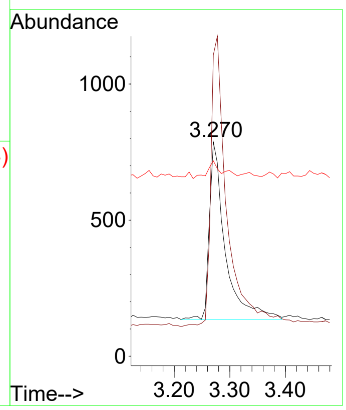


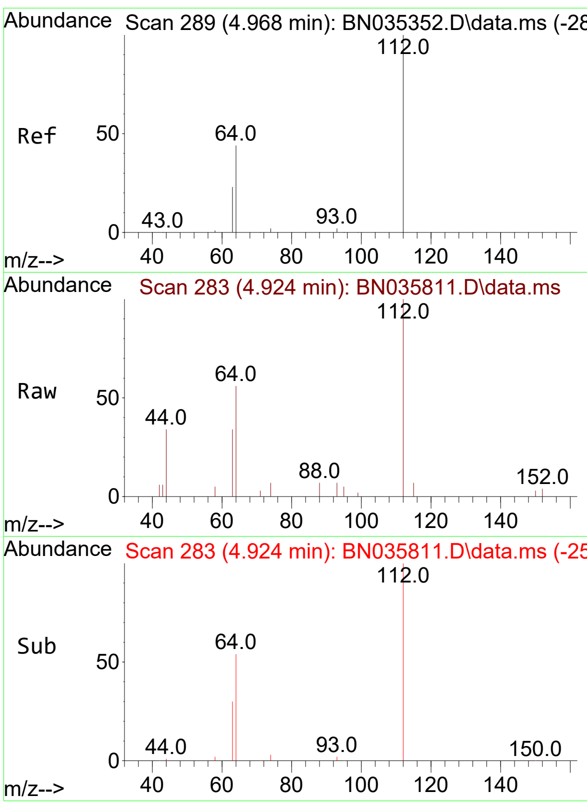
#3
n-Nitrosodimethylamine
Concen: 0.412 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1302

Ion	Ratio	Lower	Upper
42	100		
74	167.4	124.9	187.3
44	5.4	2.2	3.4#

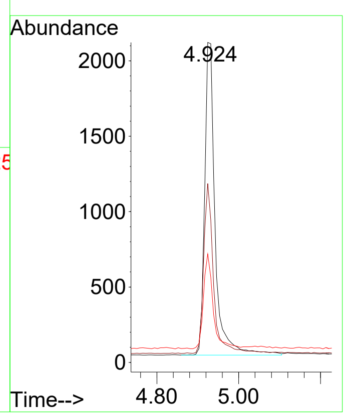


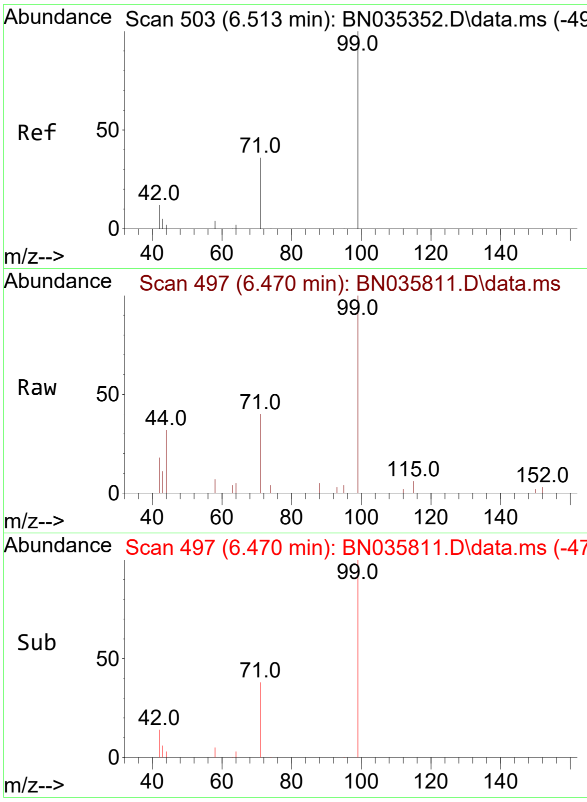


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:112 Resp: 3699

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





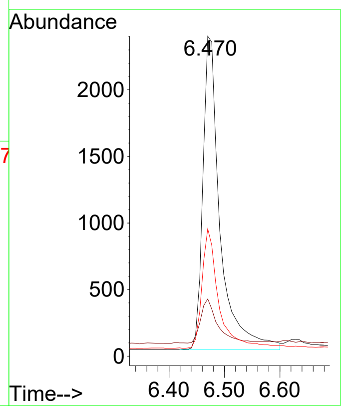
#5
Phenol-d6
Concen: 0.428 ng
RT: 6.470 min   Scan# 4

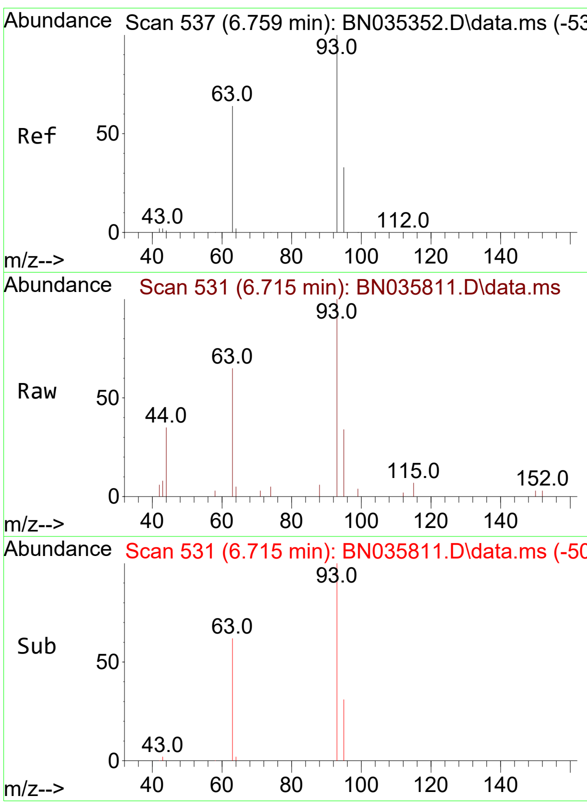
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Delta R.T.   -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024   08:59

Tgt Ion: 99 Resp: 5118

Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.4	17.2
71	38.3	29.3	43.9

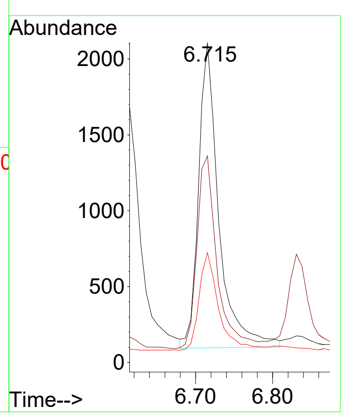


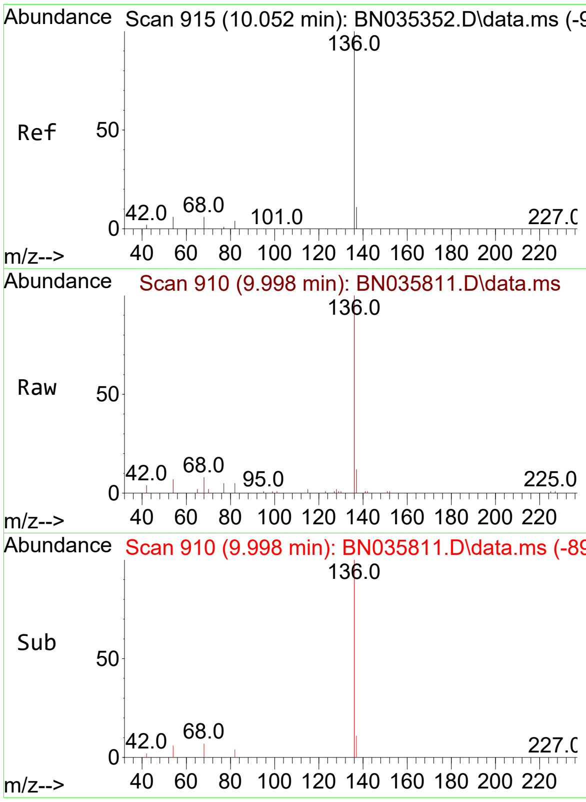


#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 6.715 min   Scan# 531
Delta R.T.   -0.015 min
Lab File: BN035811.D
Acq: 24 Dec 2024   08:59

Tgt Ion: 93 Resp: 3672

Ion	Ratio	Lower	Upper
93	100		
63	62.3	50.4	75.6
95	30.7	25.7	38.5



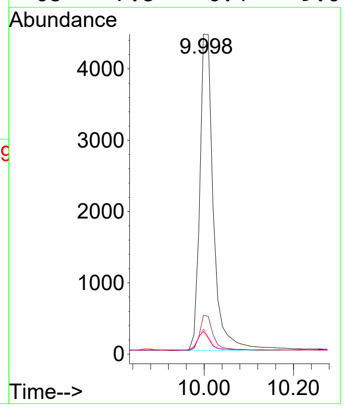


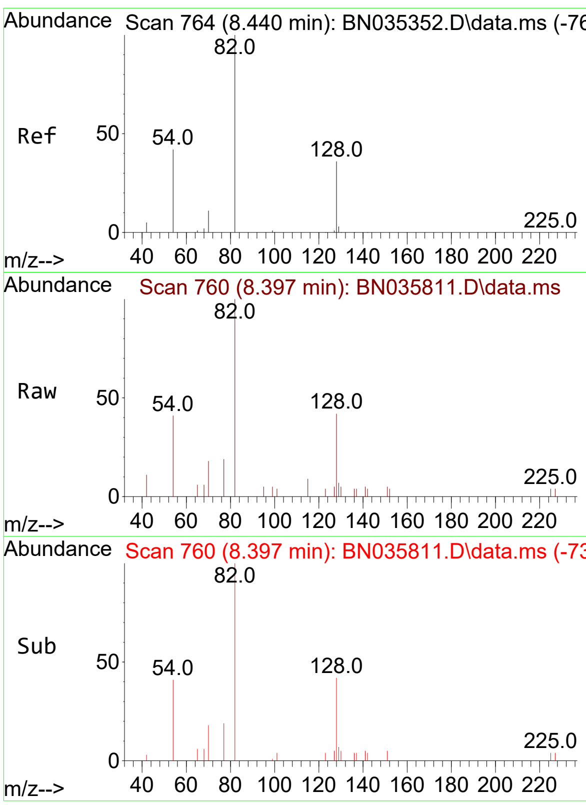
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9483

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.1	6.1	9.1
68	7.8	6.4	9.6

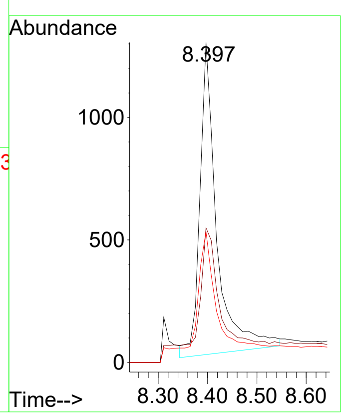


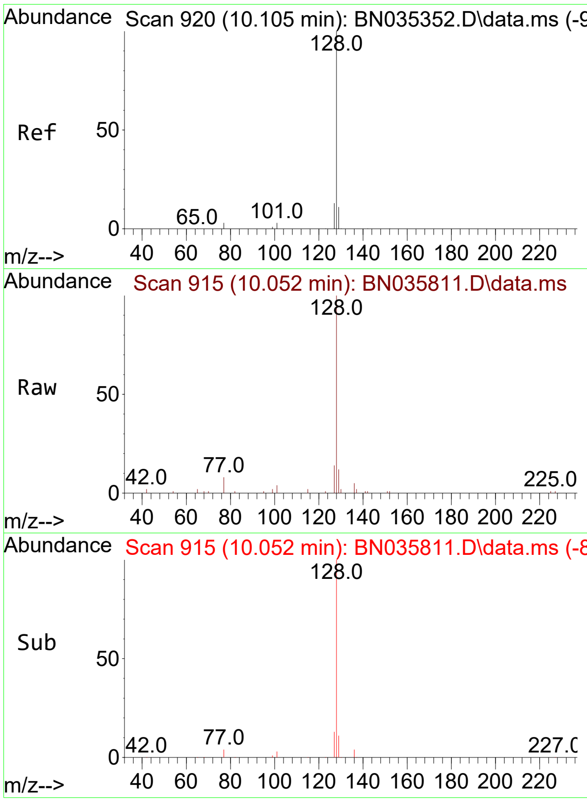


#8
Nitrobenzene-d5
Concen: 0.526 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion: 82 Resp: 3046

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	41.0	36.7	55.1



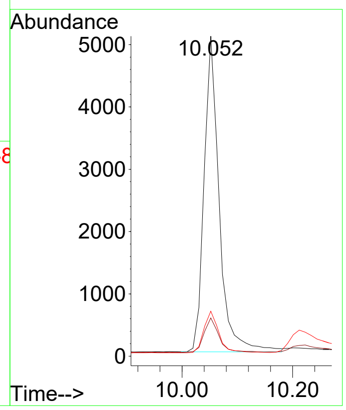


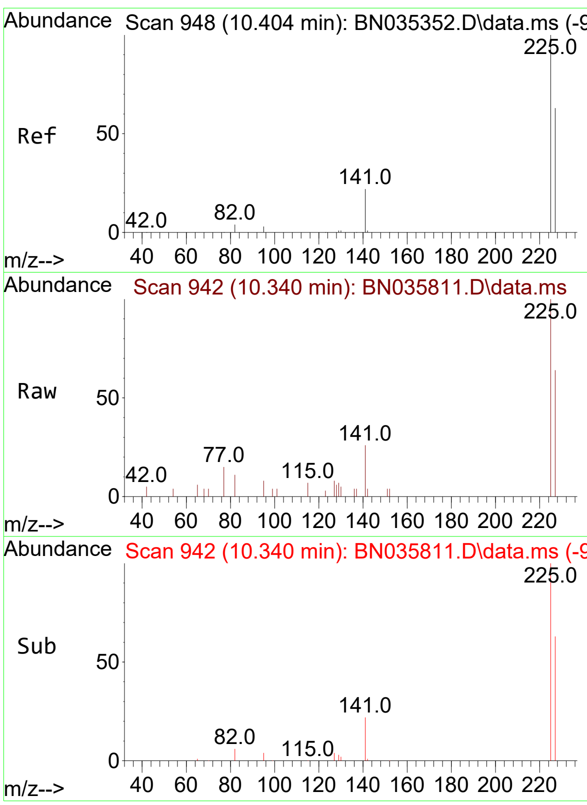
#9
Naphthalene
Concen: 0.387 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9671

Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.4	17.2

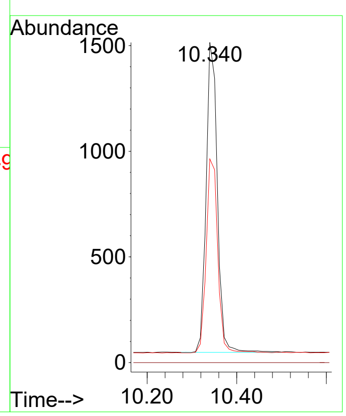


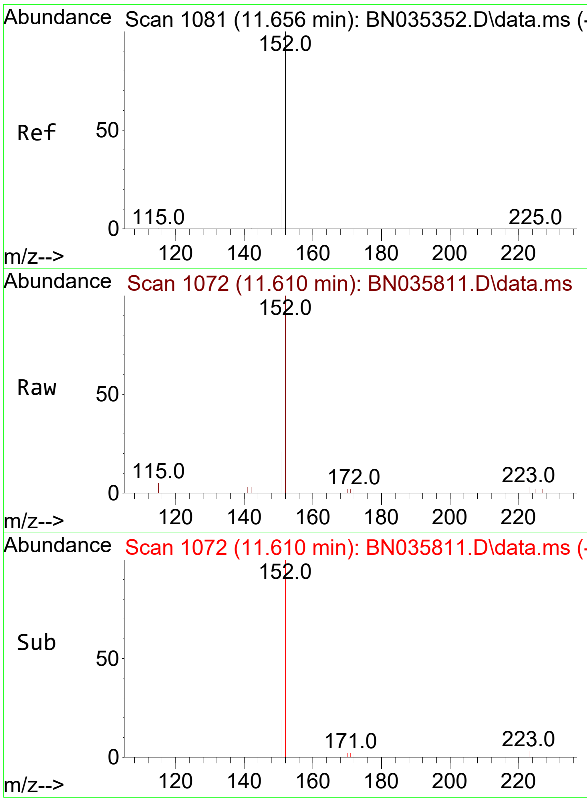


#10
Hexachlorobutadiene
Concen: 0.442 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:225 Resp: 2548

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



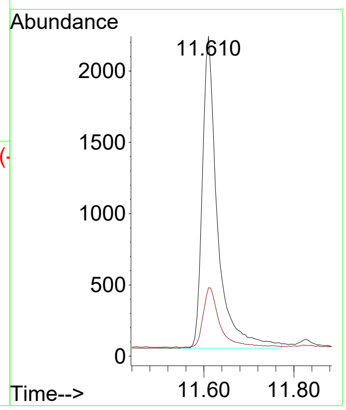


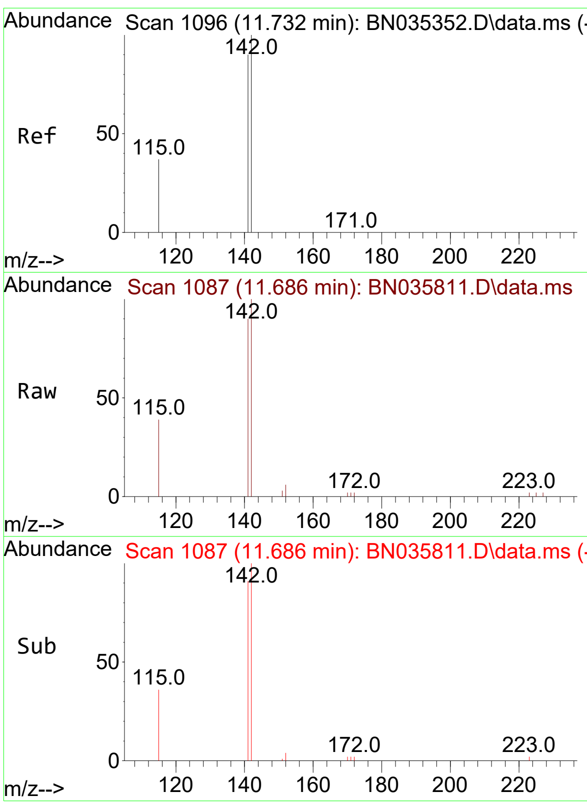
#11
2-Methylnaphthalene-d10
Concen: 0.346 ng
RT: 11.610 min Scan# 10
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5128

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.6	25.0

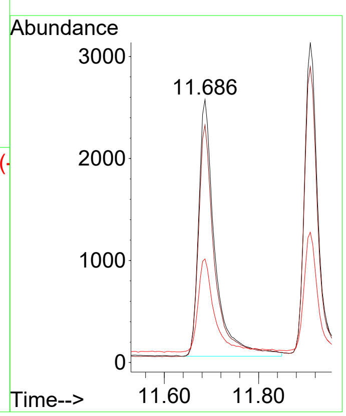


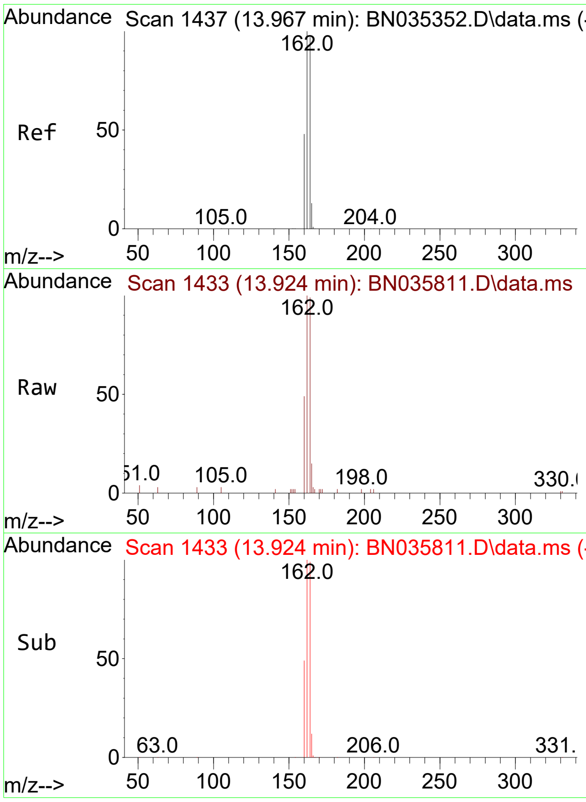


#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:142 Resp: 6060

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.4	31.4	47.0





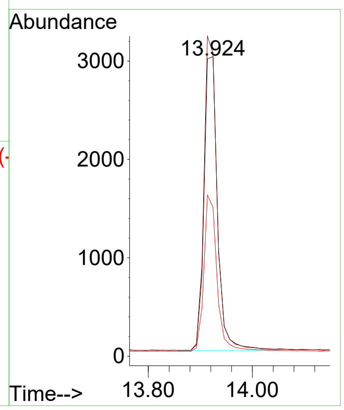
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14

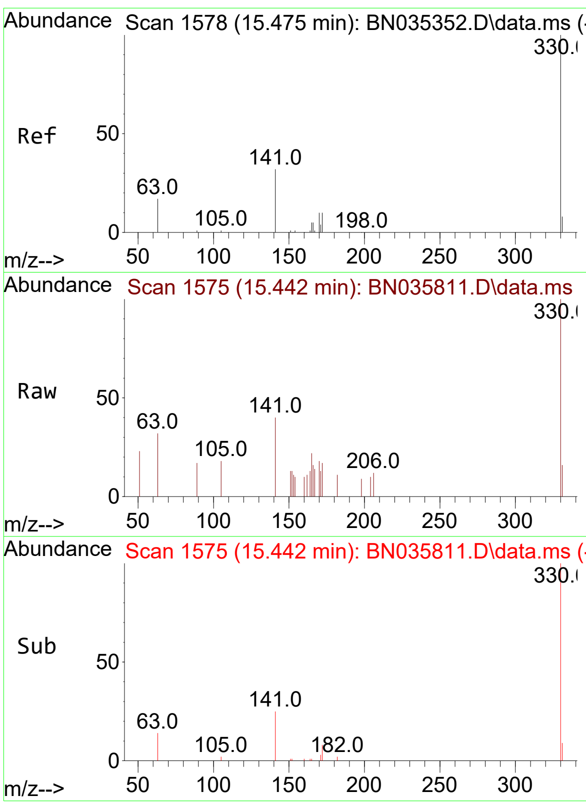
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	101.1	82.2	123.2
160	49.7	40.1	60.1

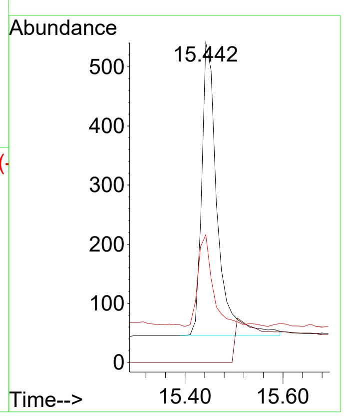


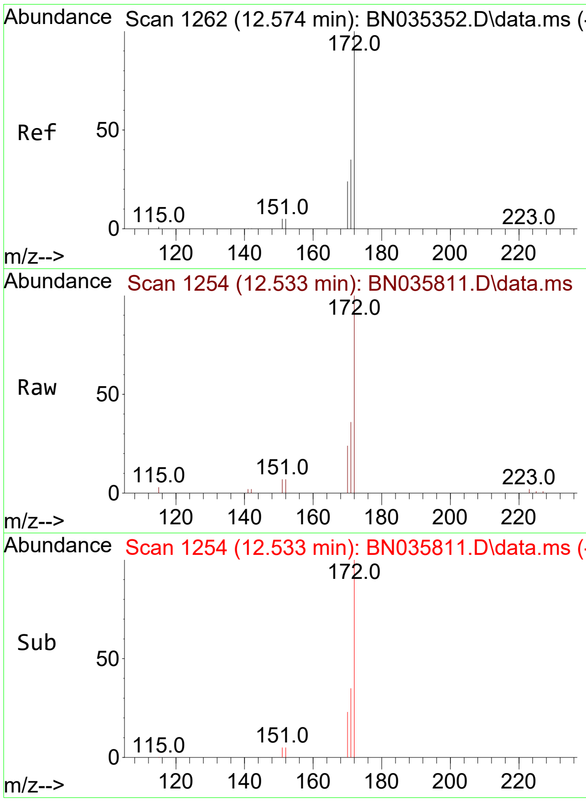


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:330 Resp: 1155

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0





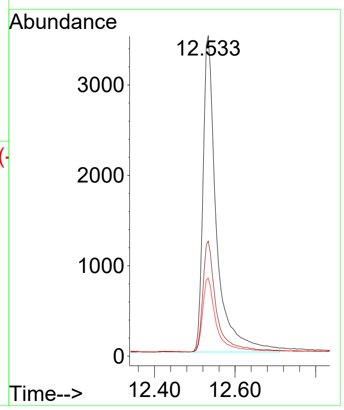
#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.533 min Scan# 1

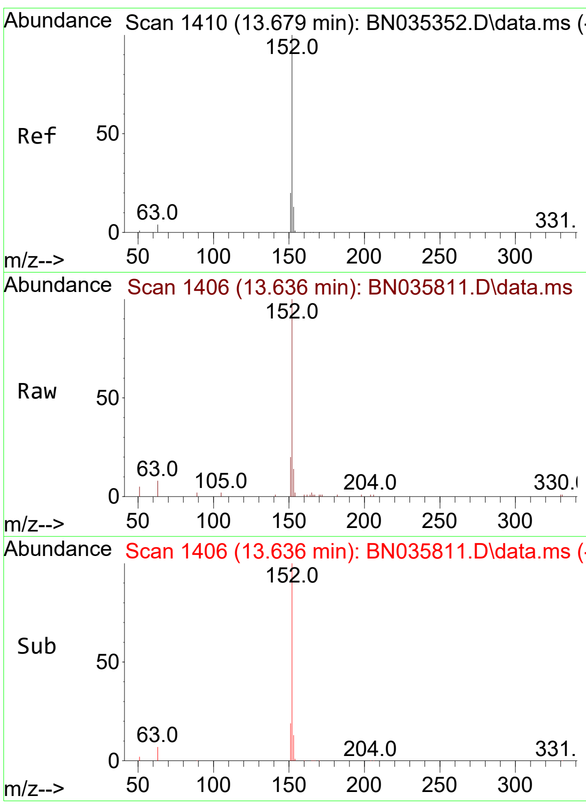
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:172 Resp: 8203

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.4	19.8	29.8

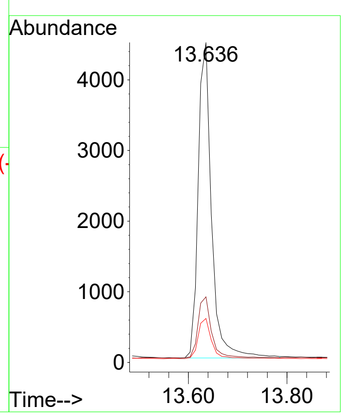


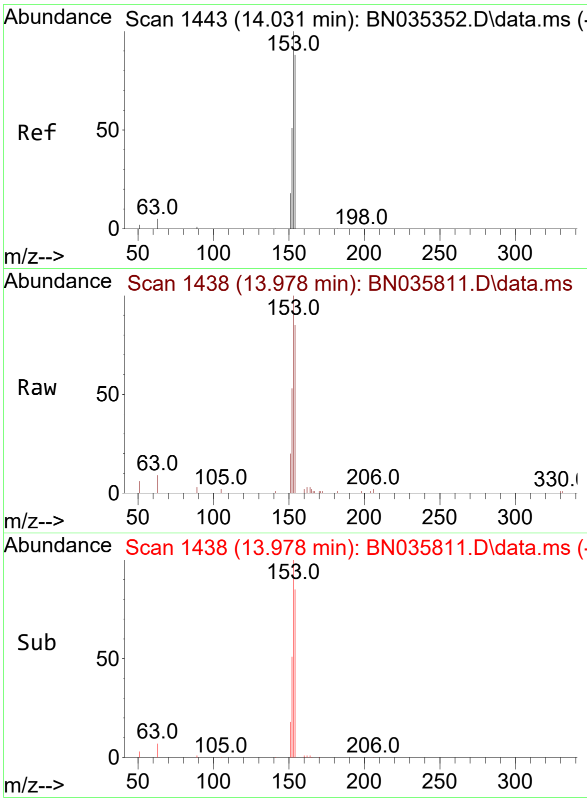


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:152 Resp: 8415

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.0	10.4	15.6



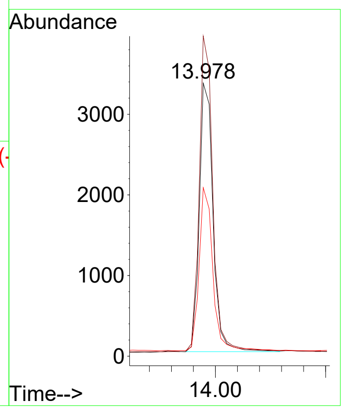


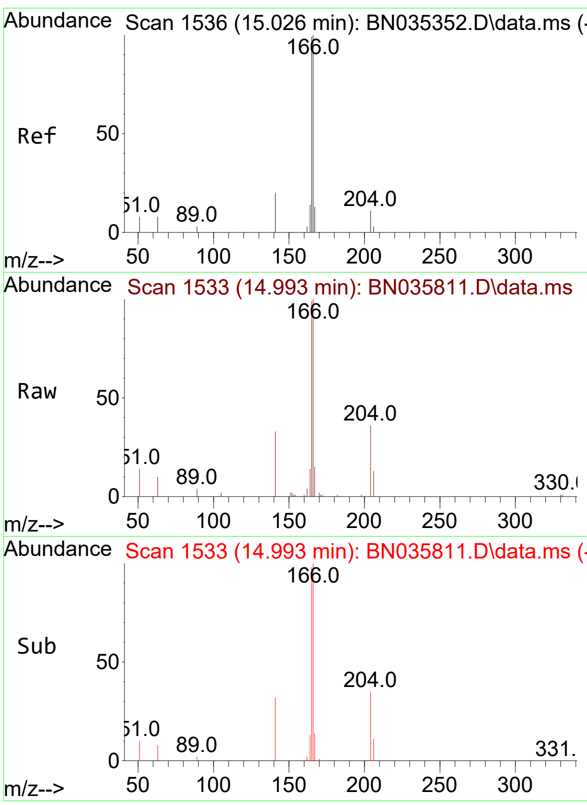
#17
Acenaphthene
Concen: 0.385 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5782

Ion	Ratio	Lower	Upper
154	100		
153	117.6	92.6	139.0
152	60.7	49.0	73.6

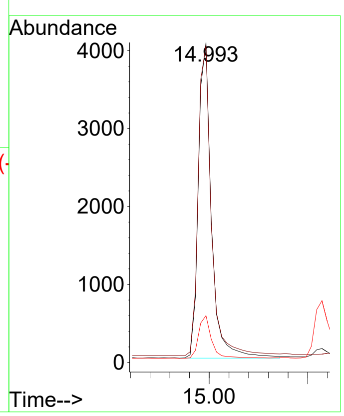


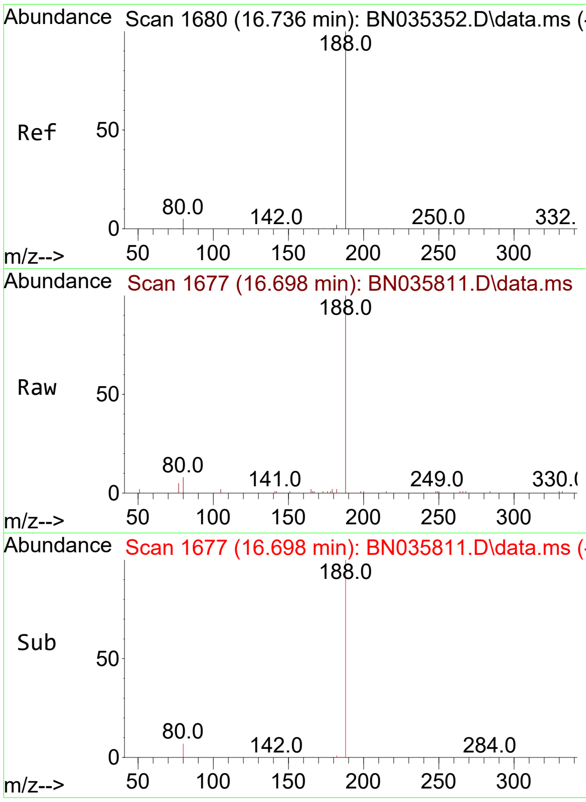


#18
Fluorene
Concen: 0.347 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:166 Resp: 7456

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.7	119.5
167	13.7	10.8	16.2



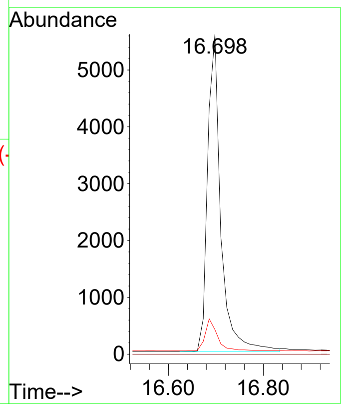


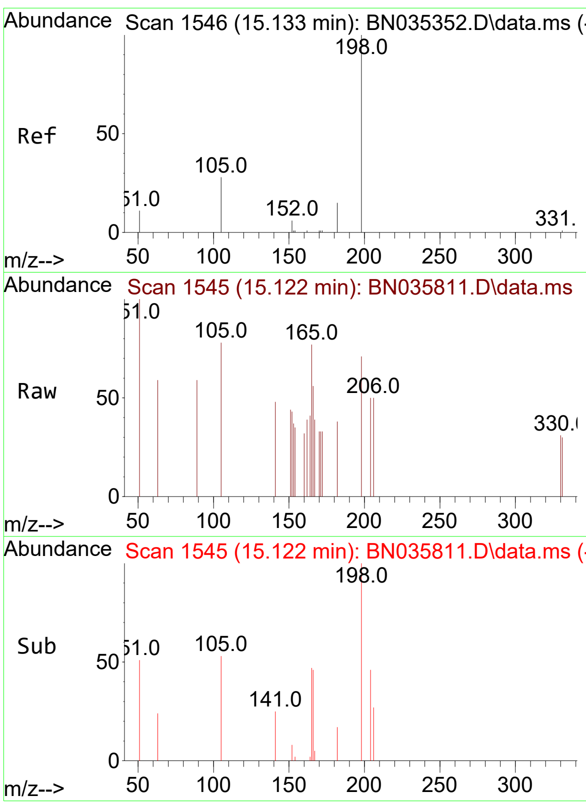
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1
Delta R.T.   -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 10855

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	4.6	6.8#

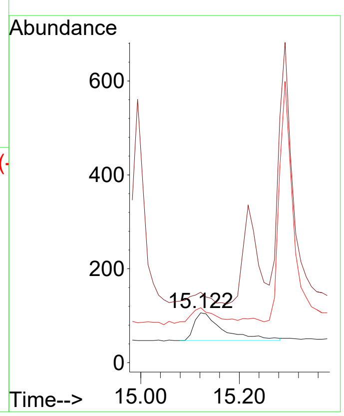


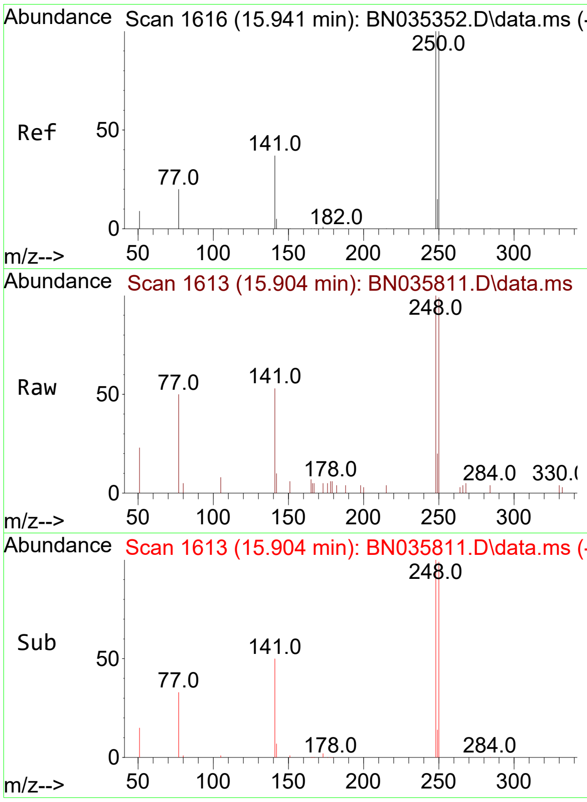


#20
4,6-Dinitro-2-methylphenol
Concen: 0.229 ng
RT: 15.122 min Scan# 1545
Delta R.T.   -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:198 Resp: 244

Ion	Ratio	Lower	Upper
198	100		
51	141.5	46.5	69.7#
105	110.4	45.3	67.9#



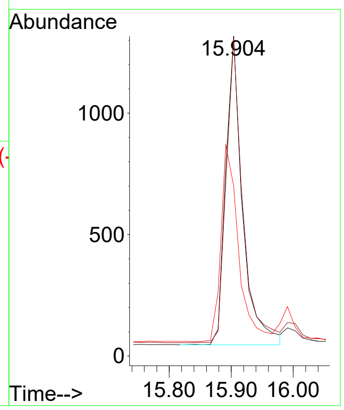


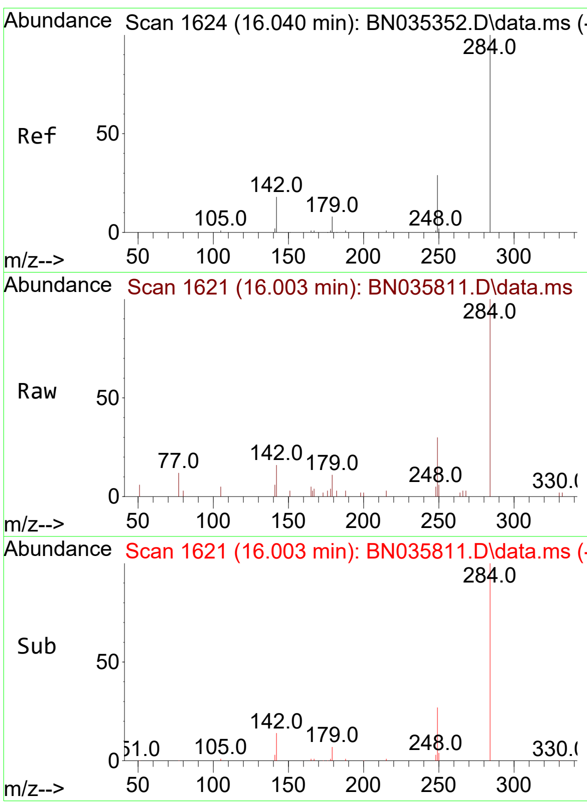
#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 15.904 min Scan# 1(
Delta R.T.   -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2379

Ion	Ratio	Lower	Upper
248	100		
250	99.5	80.6	120.8
141	53.2	31.5	47.3#

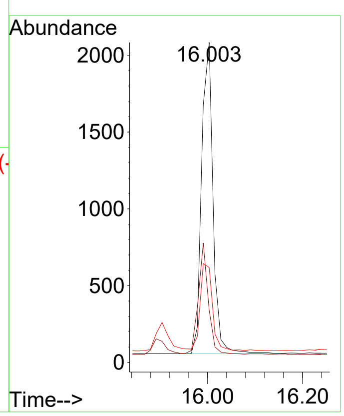


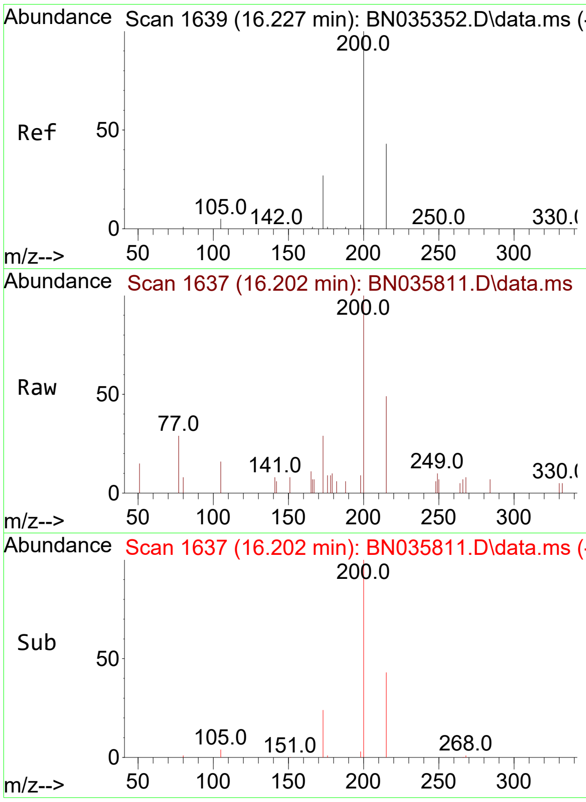


#22
Hexachlorobenzene
Concen: 0.455 ng
RT: 16.003 min Scan# 1621
Delta R.T.   -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:284 Resp: 3393

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.7	40.1
249	30.0	24.6	36.8



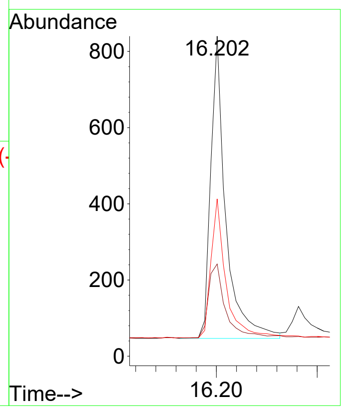


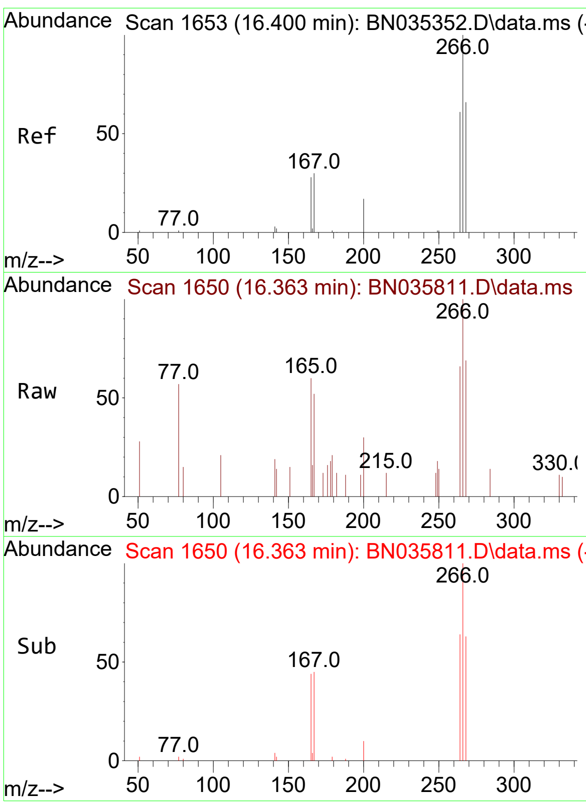
#23
Atrazine
Concen: 0.363 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1640

Ion	Ratio	Lower	Upper
200	100		
173	28.8	24.1	36.1
215	49.2	36.9	55.3

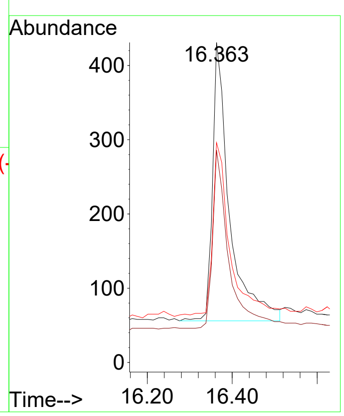


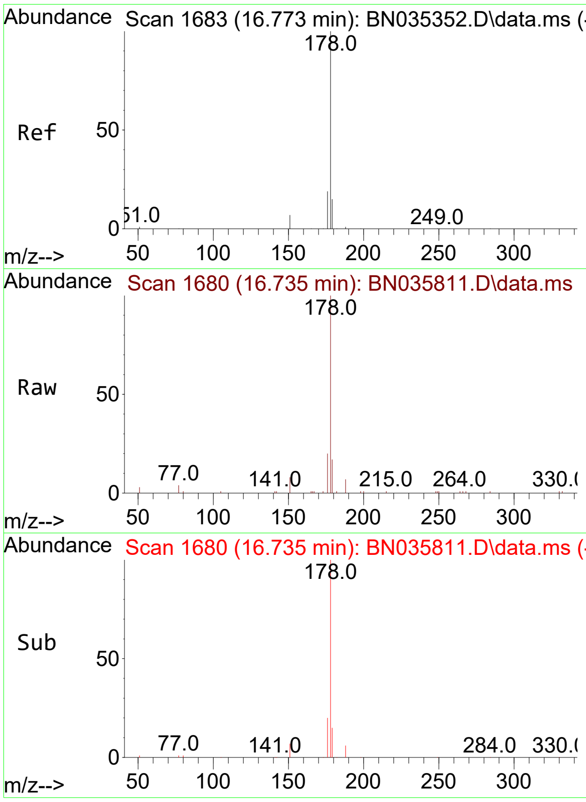


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:266 Resp: 1040

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.5	43.3	64.9



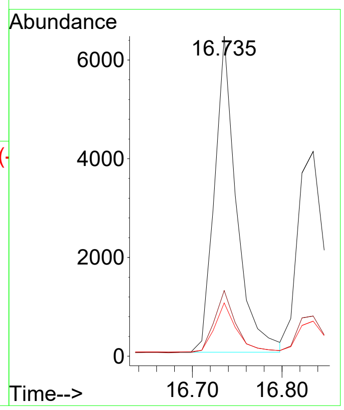


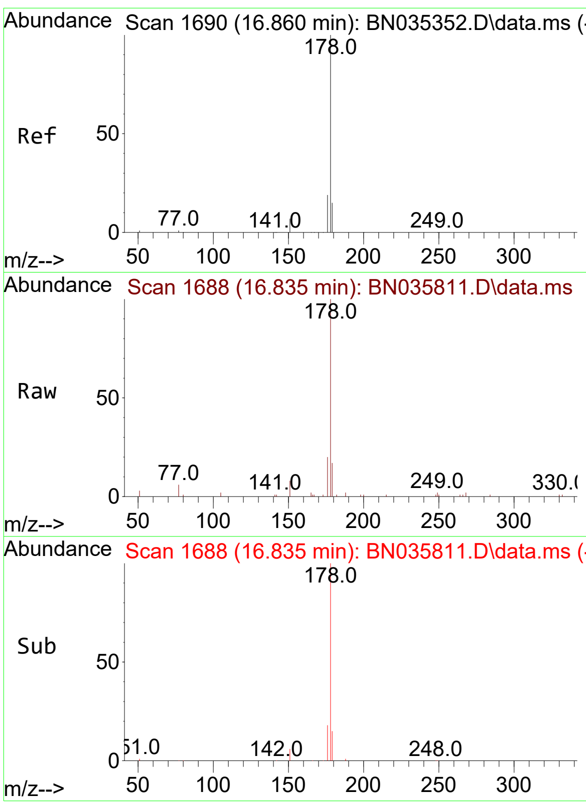
#25
Phenanthrene
Concen: 0.367 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 10950

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.5	12.3	18.5

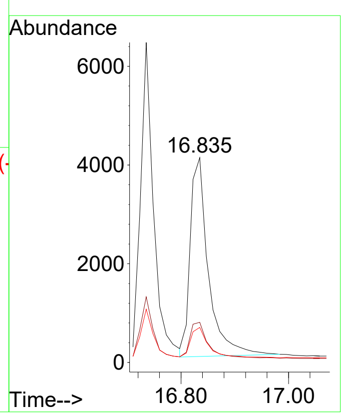


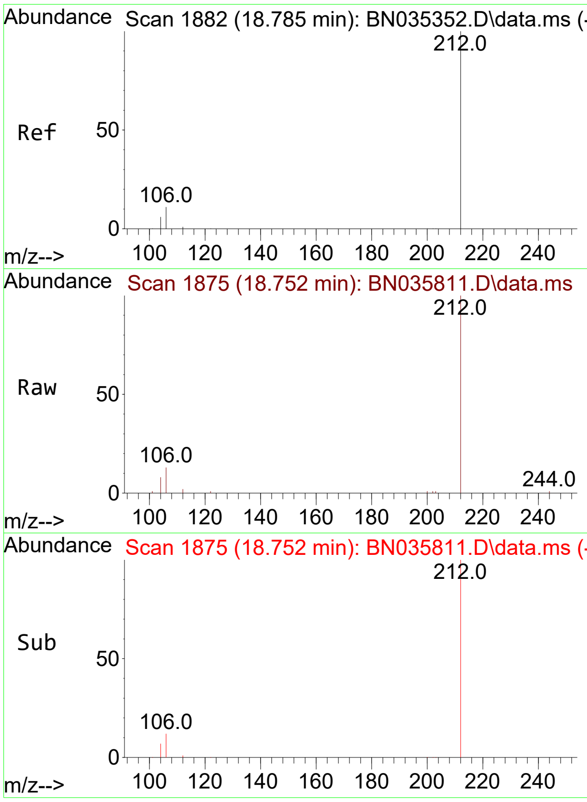


#26
Anthracene
Concen: 0.352 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:178 Resp: 9488

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.7	12.6	18.8



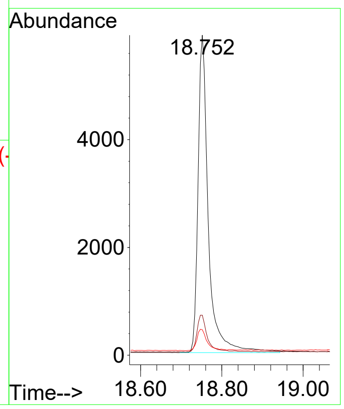


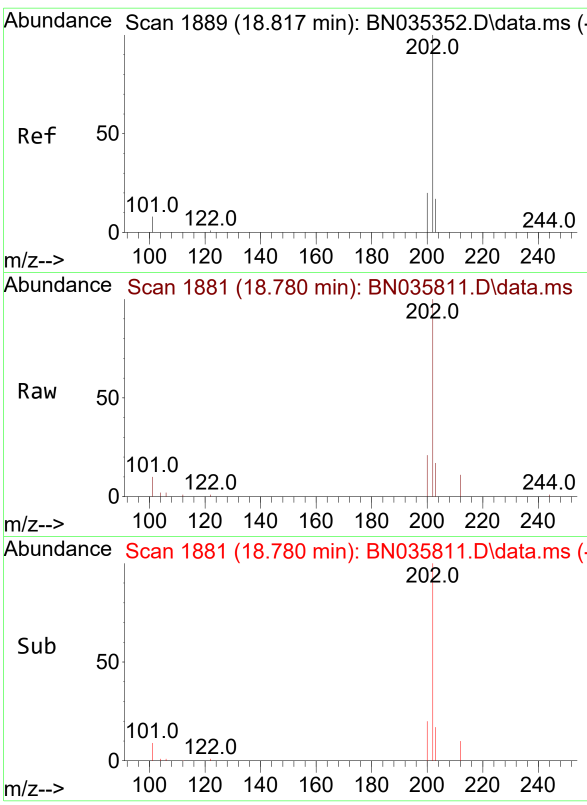
#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 10340

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

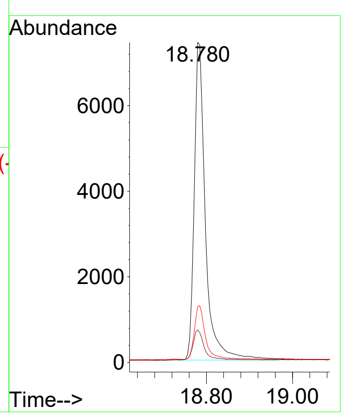


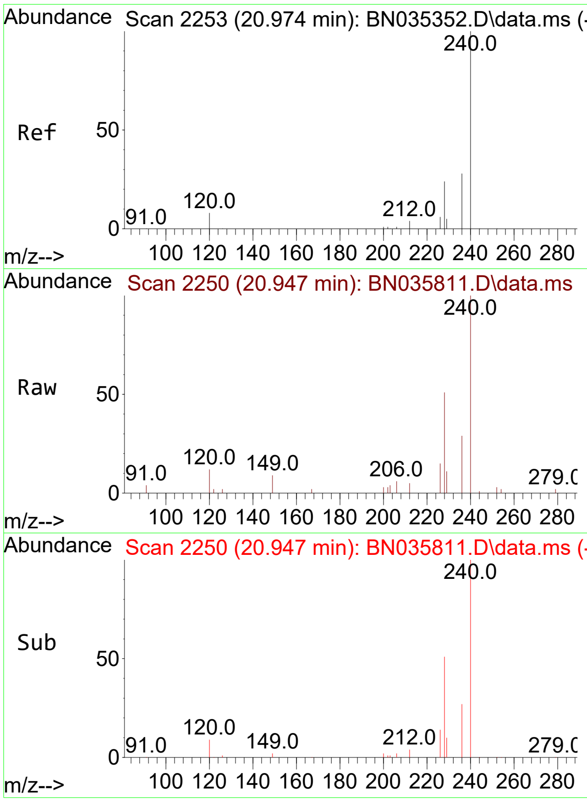


#28
Fluoranthene
Concen: 0.334 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13421

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	16.5	13.7	20.5



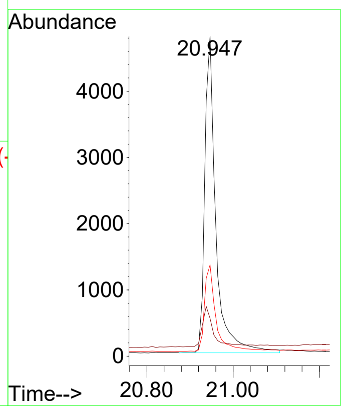


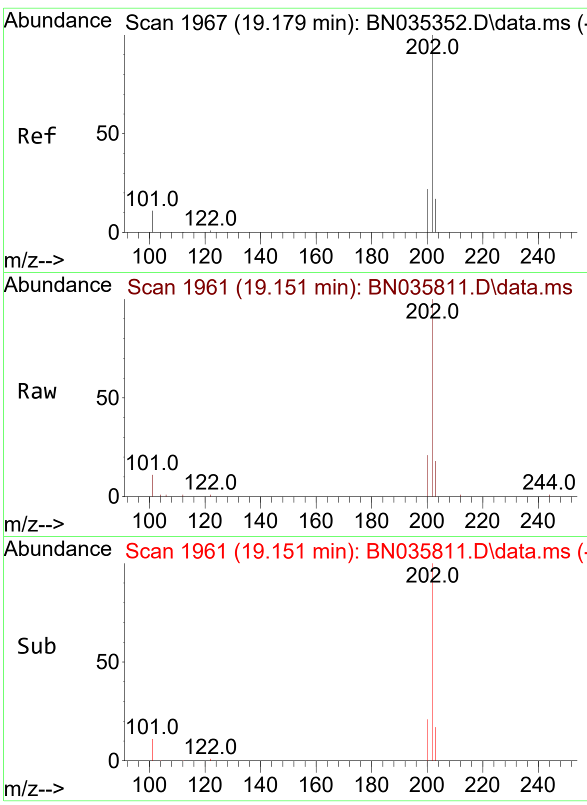
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8569

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	28.6	22.9	34.3

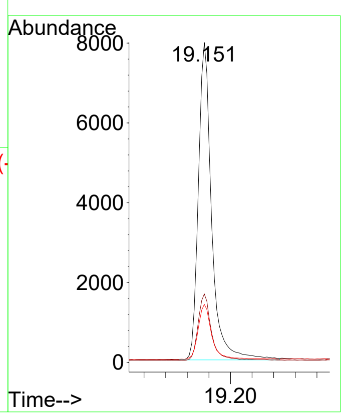


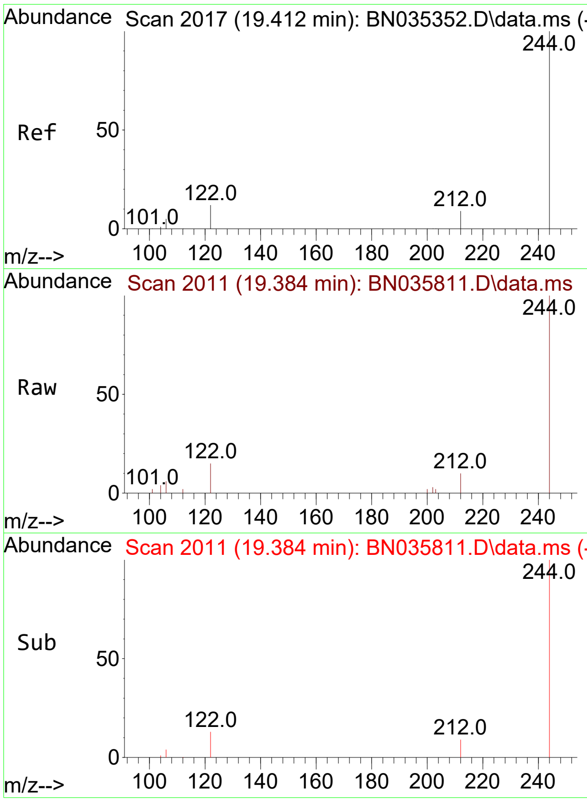


#30
Pyrene
Concen: 0.429 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:202 Resp: 13577

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



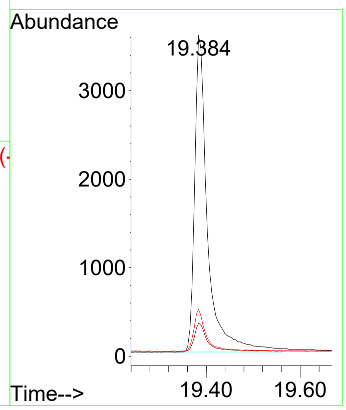


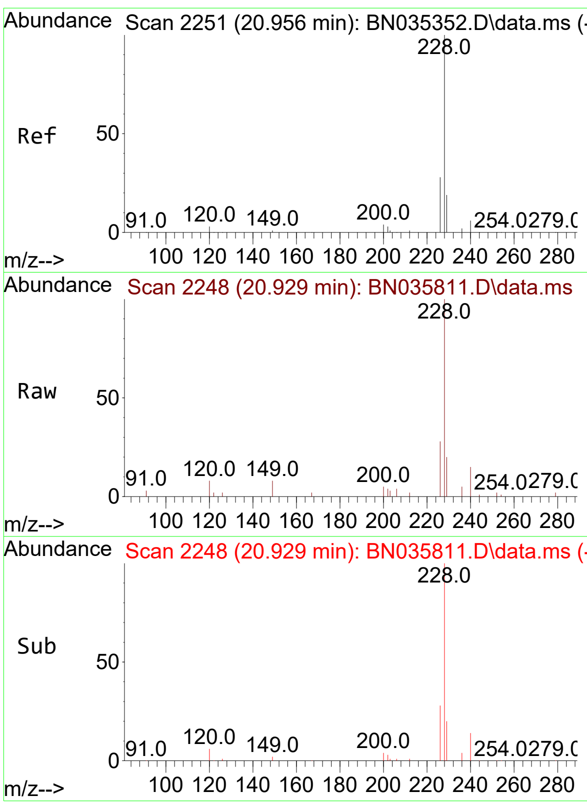
#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.384 min Scan# 2(
Delta R.T. -0.005 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6888

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5

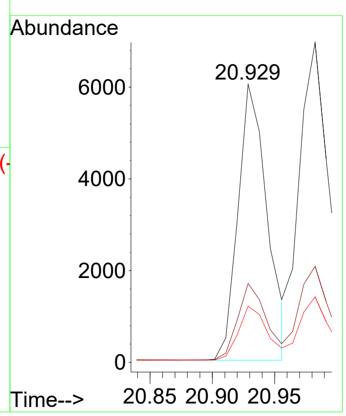


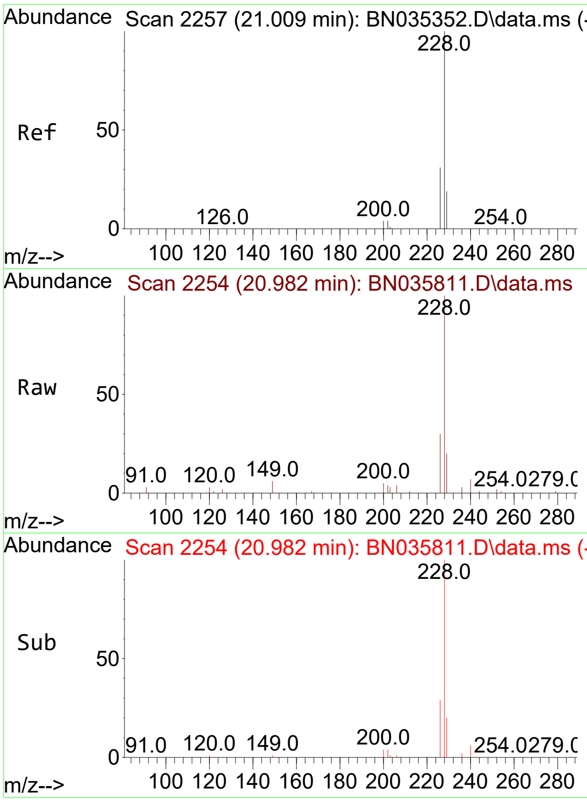


#32
Benzo(a)anthracene
Concen: 0.327 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:228 Resp: 9796

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.3	15.8	23.8



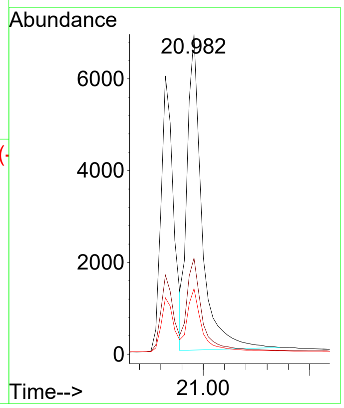


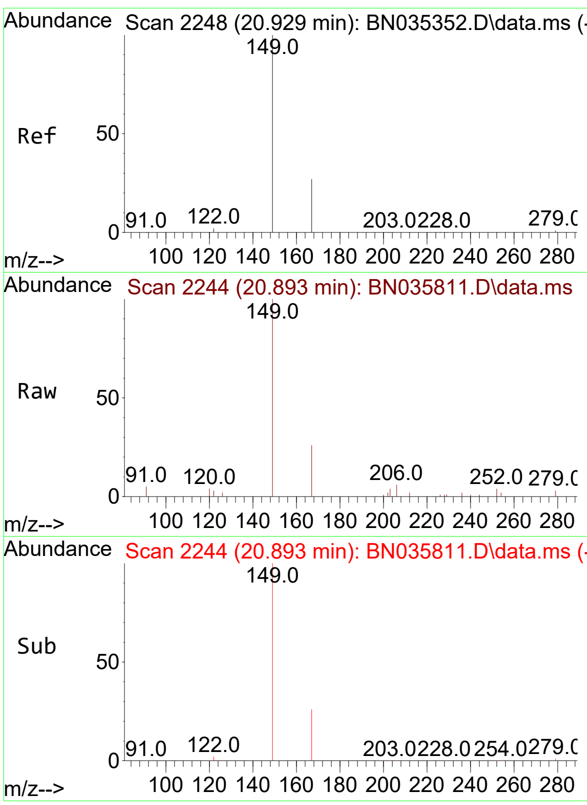
#33
Chrysene
Concen: 0.428 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 13234

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.5	15.9	23.9

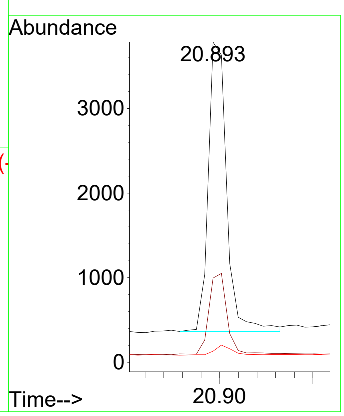


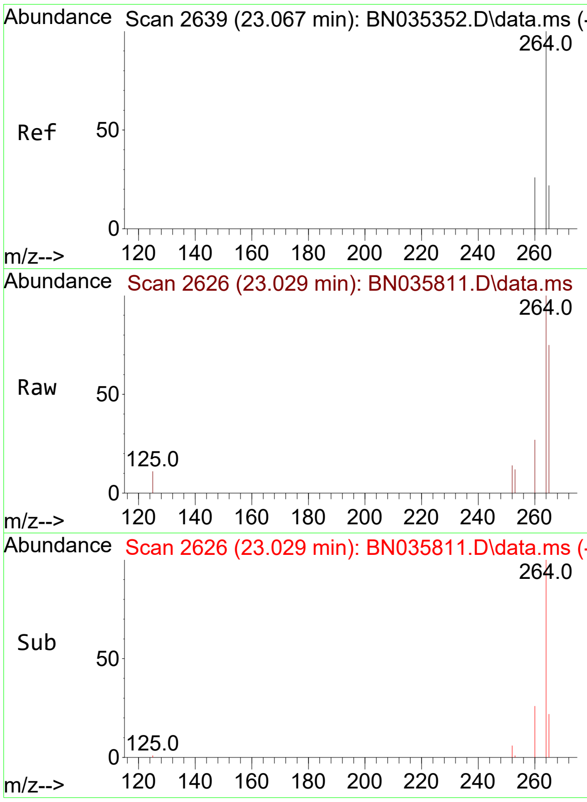


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:149 Resp: 4719

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.4
279	3.4	2.7	4.1



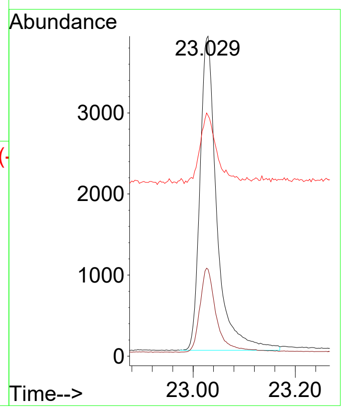


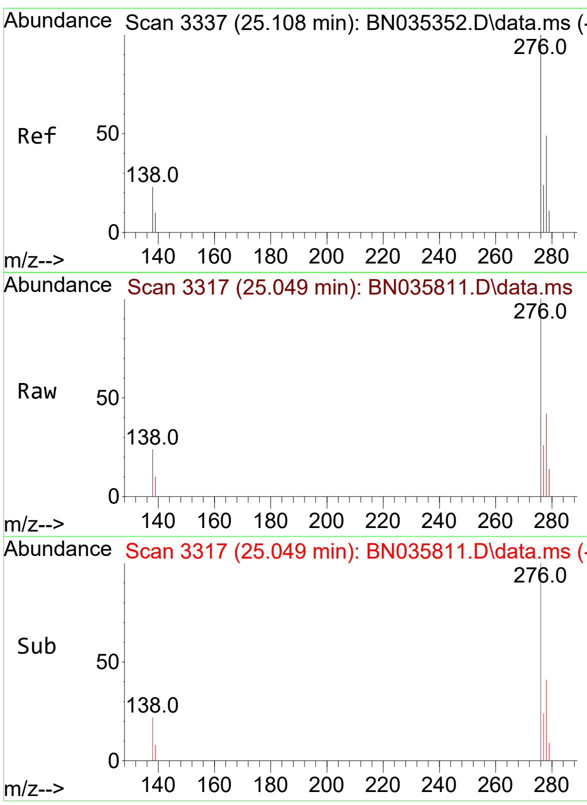
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8879

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.4	32.2
265	75.2	40.2	60.4#

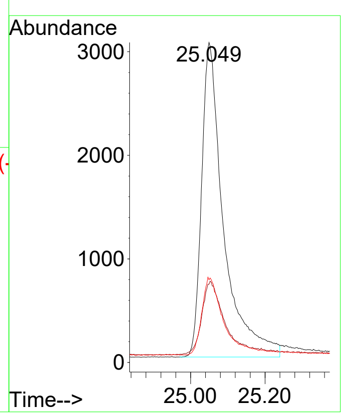


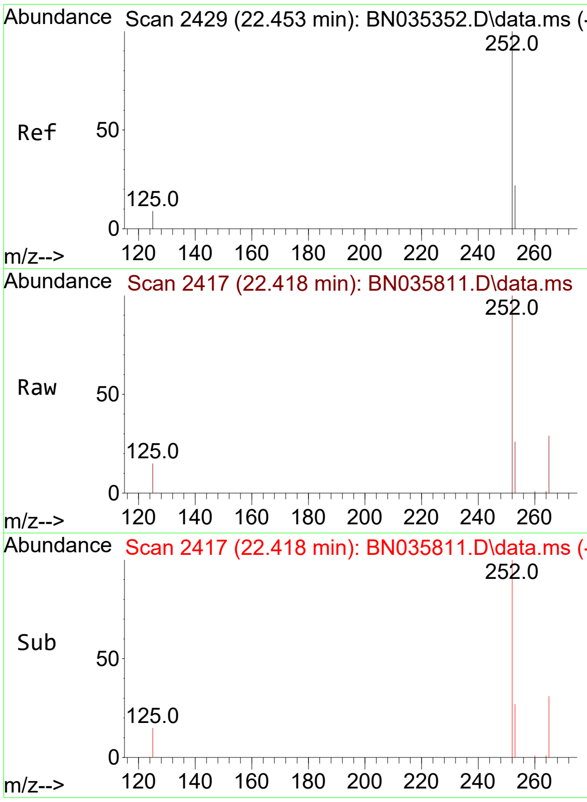


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.360 ng
RT: 25.049 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:276 Resp: 12494

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.1	19.8	29.6



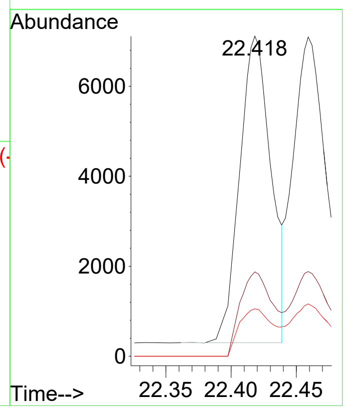


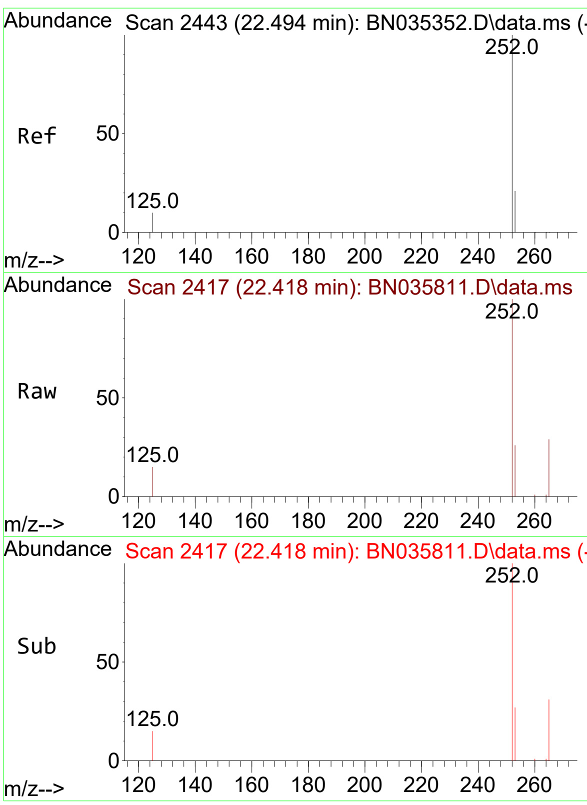
#37
Benzo(b)fluoranthene
Concen: 0.522 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 16964

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	14.8	9.6	14.4#

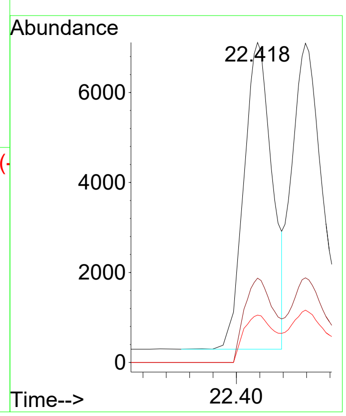


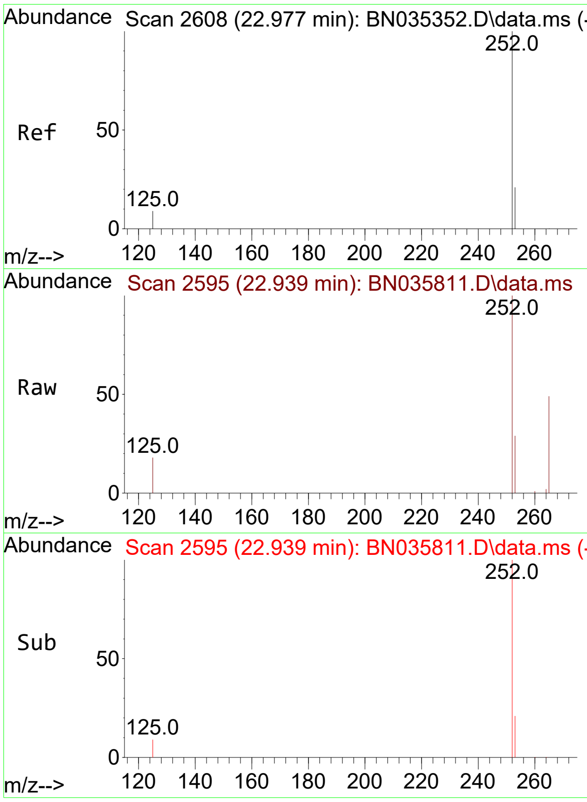


#38
Benzo(k)fluoranthene
Concen: 0.558 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:252 Resp: 17845

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	14.8	10.2	15.4



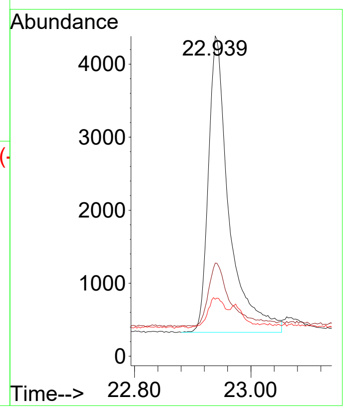


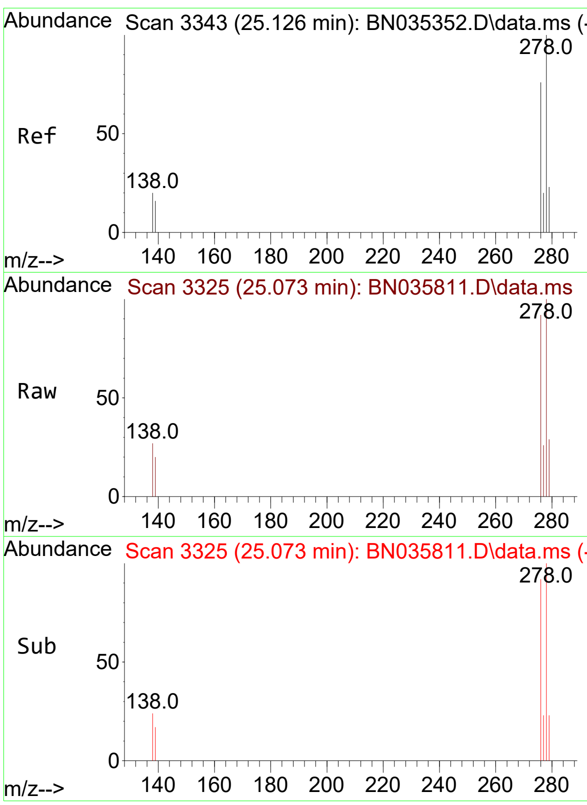
#39
Benzo(a)pyrene
Concen: 0.374 ng
RT: 22.939 min Scan# 2
Delta R.T.   -0.012 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10000

Ion	Ratio	Lower	Upper
252	100		
253	29.1	20.2	30.4
125	17.8	10.9	16.3#

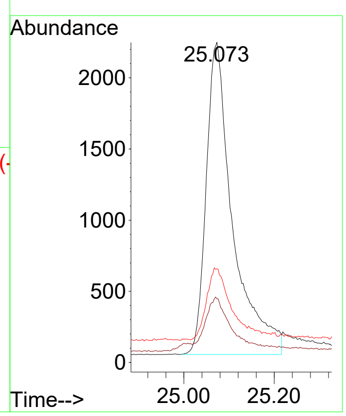


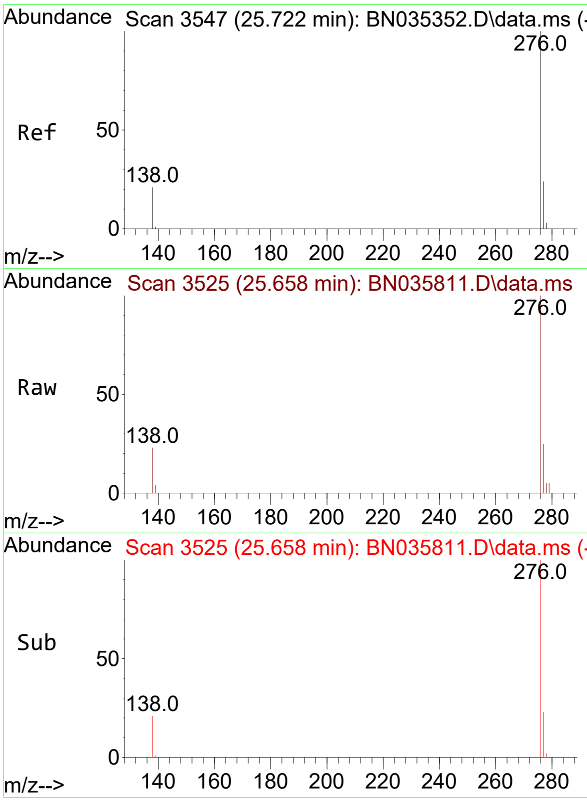


#40
Dibenzo(a,h)anthracene
Concen: 0.327 ng
RT: 25.073 min Scan# 3325
Delta R.T.   -0.009 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Tgt Ion:278 Resp: 8960

Ion	Ratio	Lower	Upper
278	100		
139	19.9	14.2	21.4
279	29.3	20.5	30.7



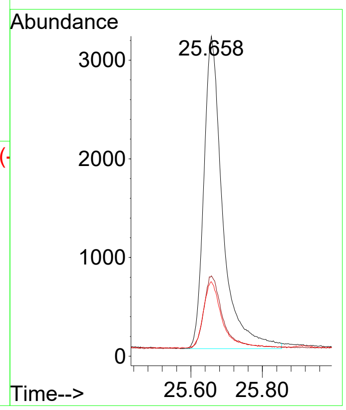


#41
Benzo(g,h,i)perylene
Concen: 0.405 ng
RT: 25.658 min Scan# 3525
Delta R.T. -0.021 min
Lab File: BN035811.D
Acq: 24 Dec 2024 08:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11606

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	23.3	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On : 24 Dec 2024 09:35
Operator : RC/JU
Sample : PB165828BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.264	152	3197	0.400	ng	0.00
7) Naphthalene-d8	10.020	136	6952	0.400	ng	0.00
13) Acenaphthene-d10	13.935	164	4346	0.400	ng	0.00
19) Phenanthrene-d10	16.711	188	8099	0.400	ng	# 0.01
29) Chrysene-d12	20.956	240	6756	0.400	ng	# 0.00
35) Perylene-d12	23.038	264	6747	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	2496	0.312	ng	0.00
5) Phenol-d6	6.484	99	2096	0.218	ng	0.00
8) Nitrobenzene-d5	8.418	82	1815	0.427	ng	0.01
11) 2-Methylnaphthalene-d10	11.641	152	3741	0.344	ng	0.02
14) 2,4,6-Tribromophenol	15.475	330	490	0.159	ng	0.02
15) 2-Fluorobiphenyl	12.564	172	5652	0.344	ng	0.02
27) Fluoranthene-d10	18.761	212	9188	0.400	ng	0.00
31) Terphenyl-d14	19.393	244	6413	0.481	ng	0.00

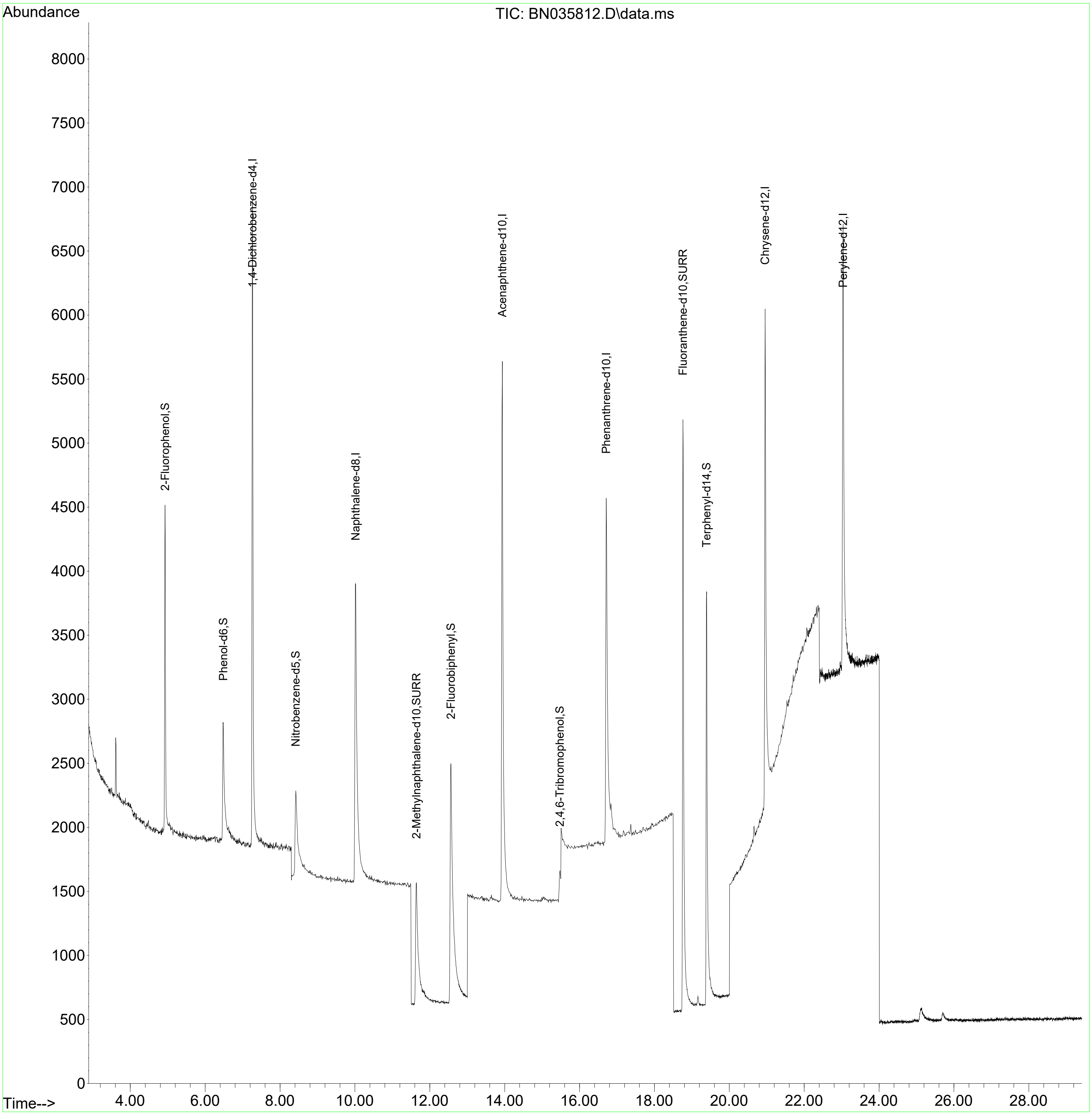
Target Compounds Qvalue

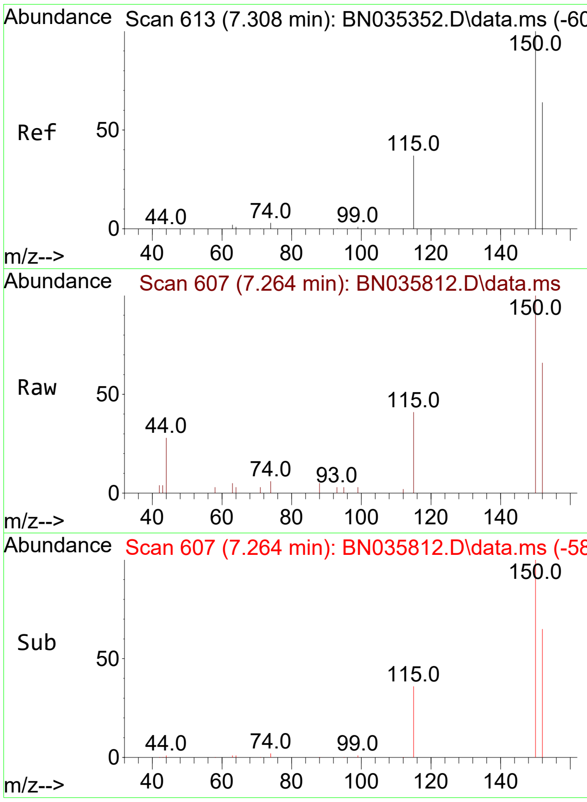
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035812.D
Acq On   : 24 Dec 2024 09:35
Operator : RC/JU
Sample   : PB165828BL
Misc   :
ALS Vial : 3   Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Quant Time: Dec 24 23:16:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



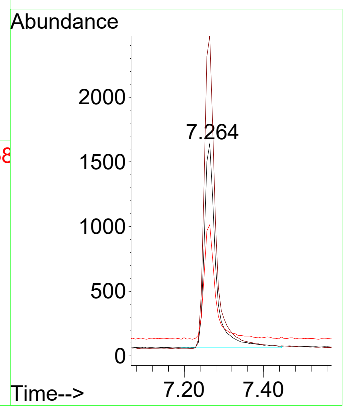


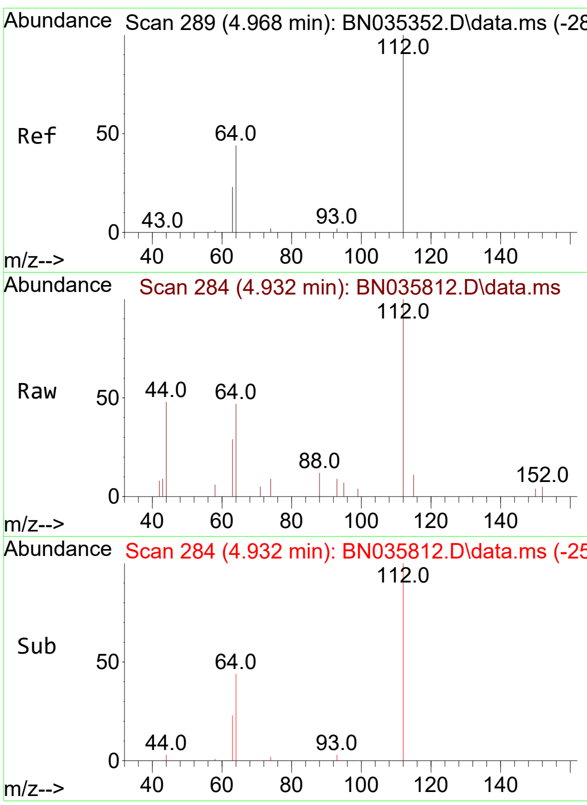
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min   Scan# 60
Delta R.T.   -0.008 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:152 Resp: 3197

Ion	Ratio	Lower	Upper
152	100		
150	150.9	124.0	186.0
115	61.9	49.6	74.4

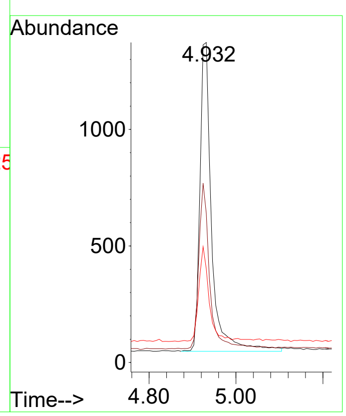


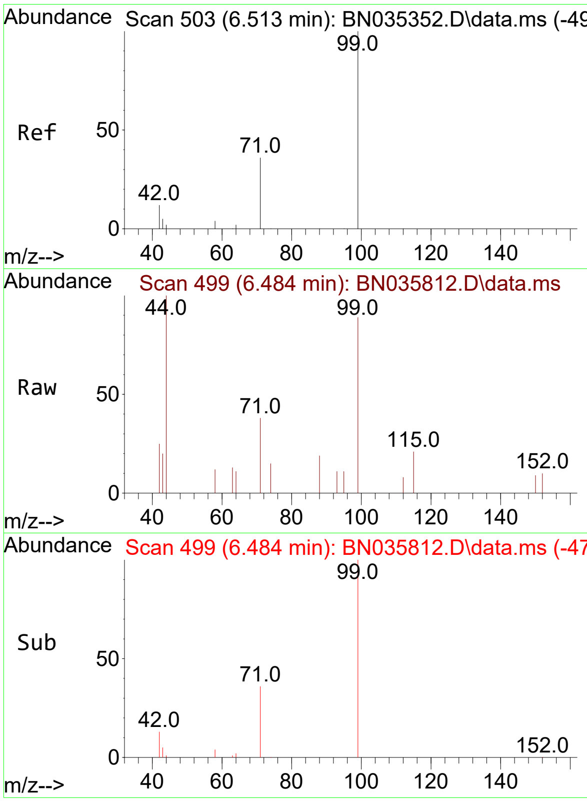


#4
2-Fluorophenol
Concen: 0.312 ng
RT: 4.932 min   Scan# 284
Delta R.T.   -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Tgt Ion:112 Resp: 2496

Ion	Ratio	Lower	Upper
112	100		
64	49.3	39.8	59.8
63	27.1	21.0	31.6



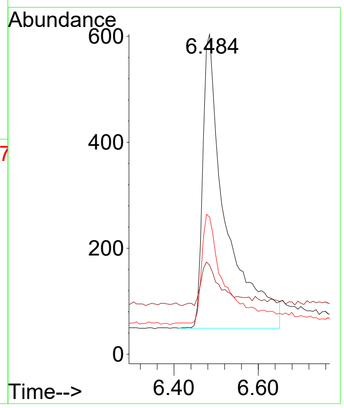


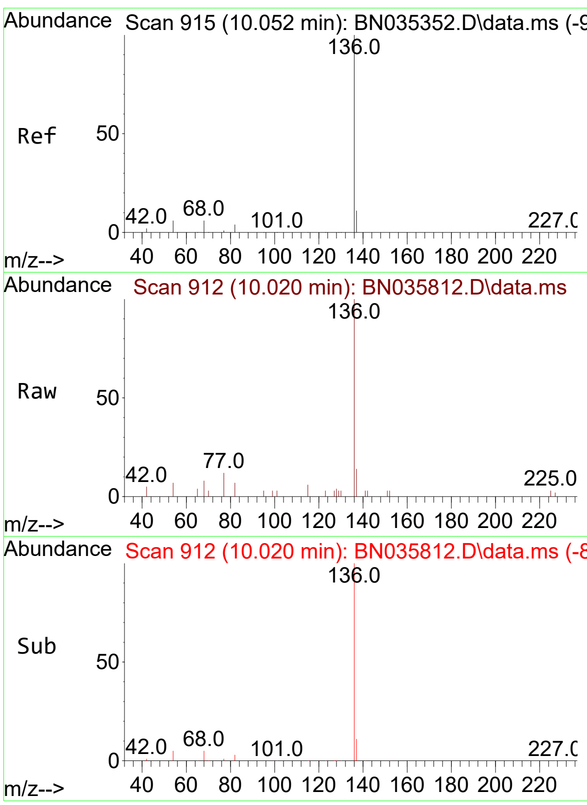
#5
Phenol-d6
Concen: 0.218 ng
RT: 6.484 min   Scan# 4
Delta R.T.   -0.007 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion: 99 Resp: 2096

Ion	Ratio	Lower	Upper
99	100		
42	13.4	11.4	17.2
71	37.2	29.3	43.9

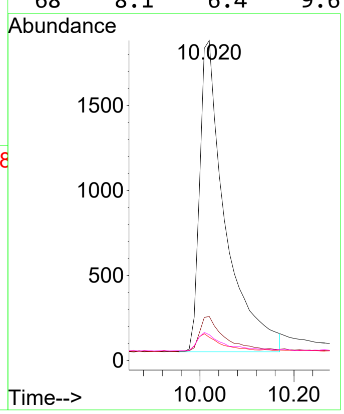


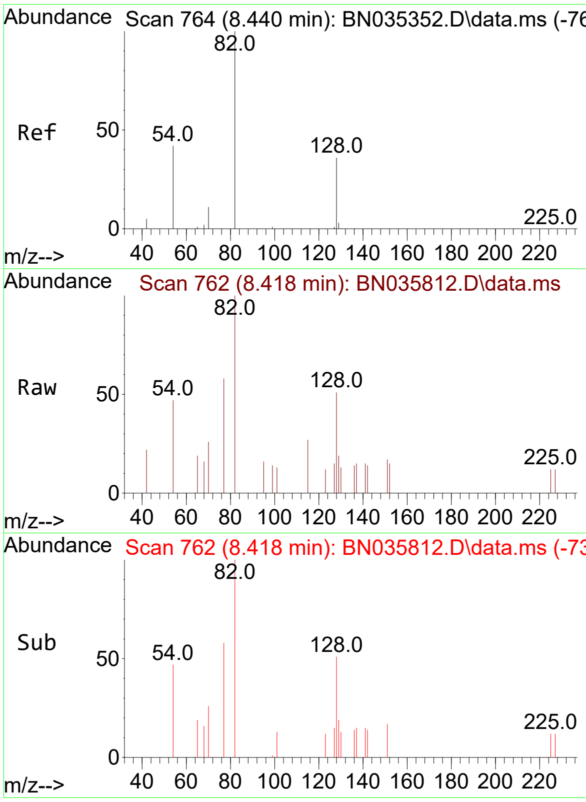


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.020 min   Scan# 912
Delta R.T.   -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Tgt Ion:136 Resp: 6952

Ion	Ratio	Lower	Upper
136	100		
137	13.8	10.2	15.2
54	7.3	6.1	9.1
68	8.1	6.4	9.6





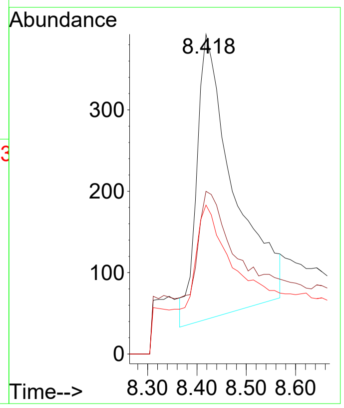
#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.418 min   Scan# 7

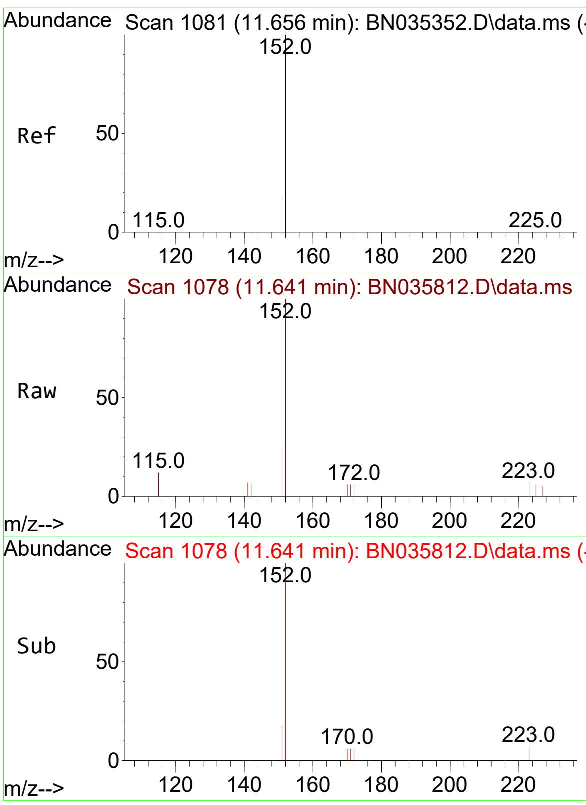
Instrument :
BNA_N
ClientSampleId :
PB165828BL

Delta R.T.   0.010 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Tgt Ion: 82 Resp: 1815

Ion	Ratio	Lower	Upper
82	100		
128	50.9	33.4	50.0#
54	46.6	36.7	55.1

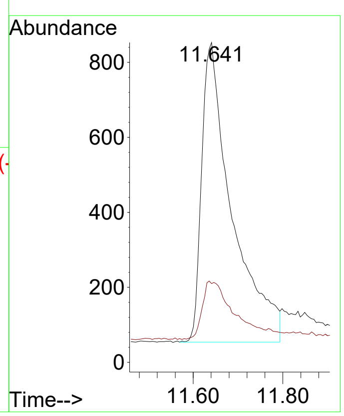


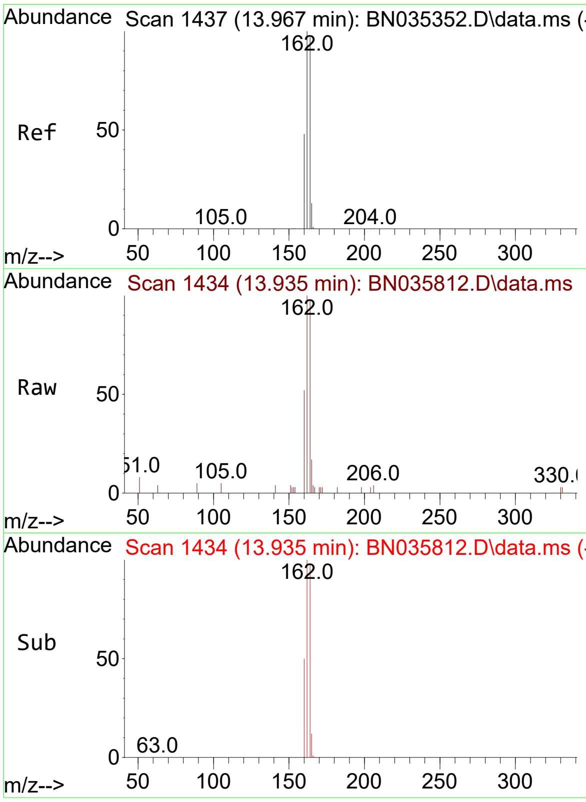


#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.641 min   Scan# 1078
Delta R.T.   0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024   09:35

Tgt Ion:152 Resp: 3741

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.6	25.0





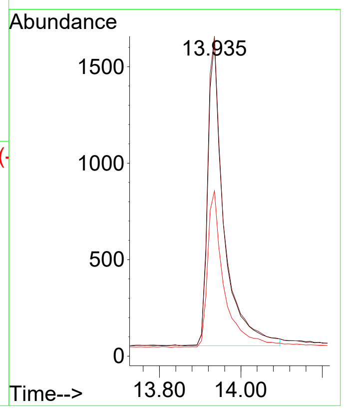
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.935 min Scan# 14

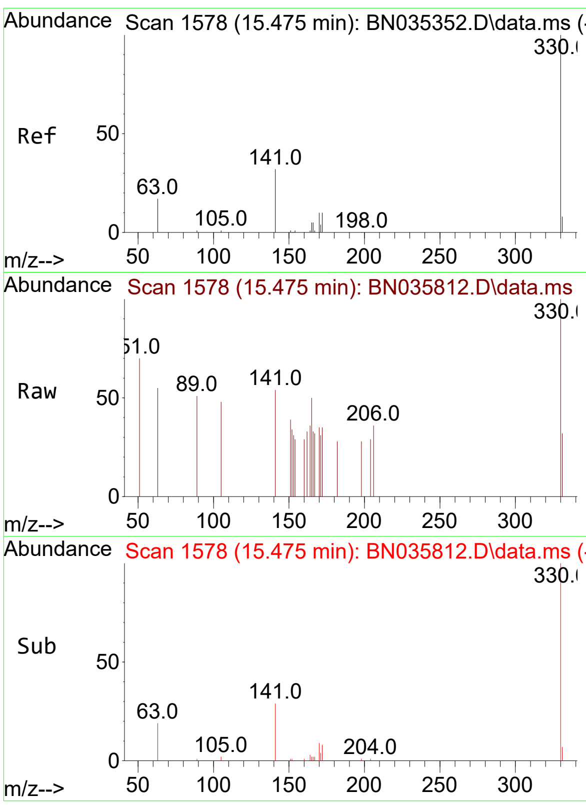
Delta R.T. -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:164 Resp: 4346

Ion	Ratio	Lower	Upper
164	100		
162	101.6	82.2	123.2
160	52.5	40.1	60.1

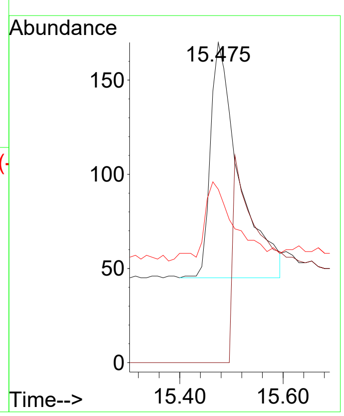


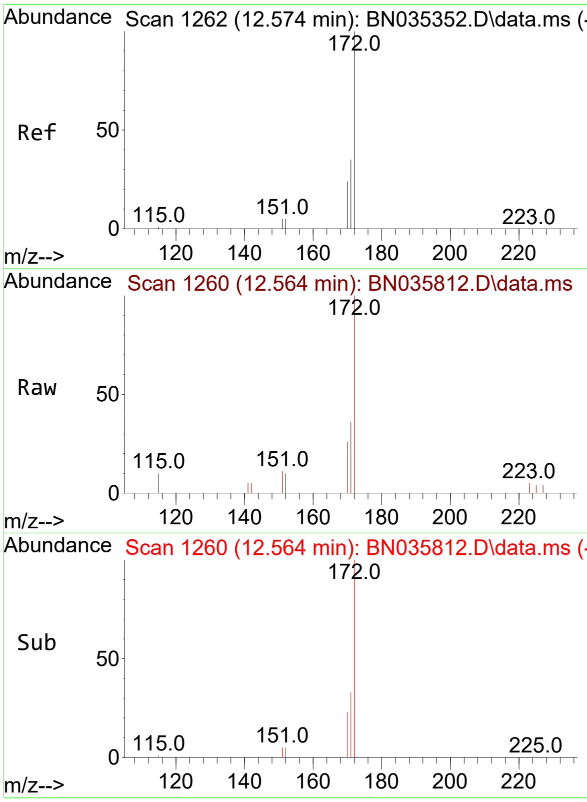


#14
2,4,6-Tribromophenol
Concen: 0.159 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.021 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:330 Resp: 490

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.3	26.6	40.0



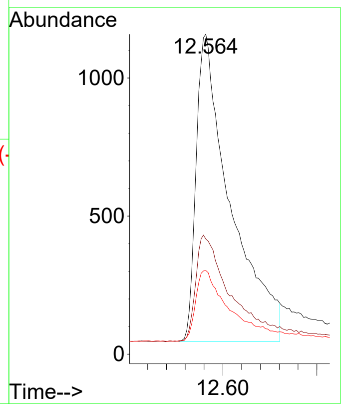


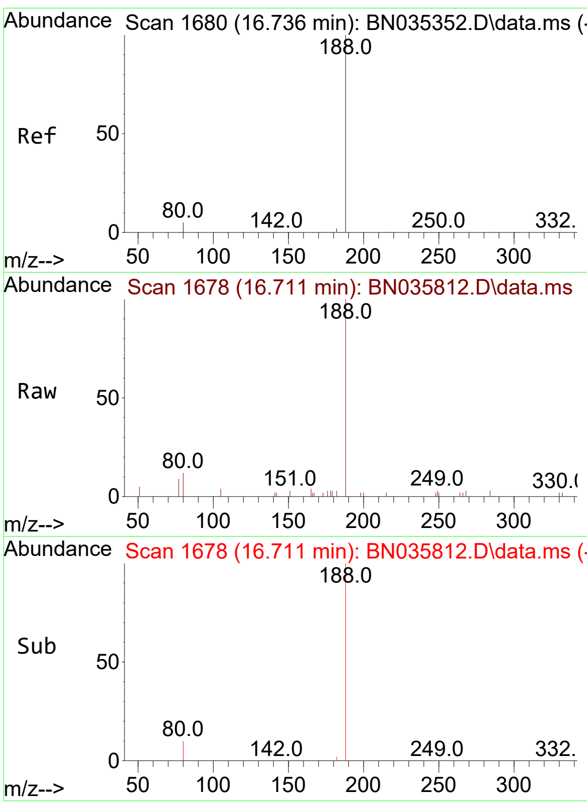
#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 12.564 min Scan# 1
Delta R.T. 0.020 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:172 Resp: 5652

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	26.1	19.8	29.8

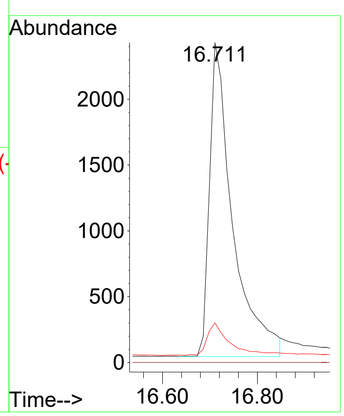


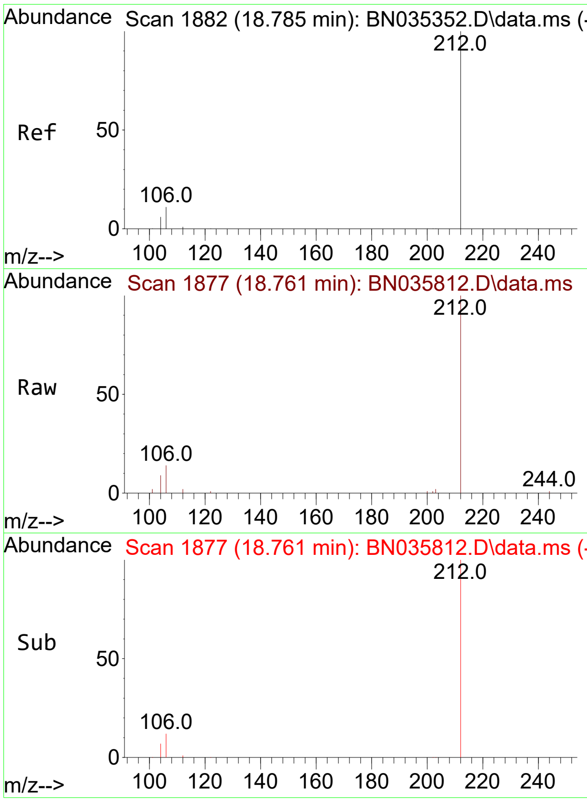


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.711 min Scan# 1678
Delta R.T. 0.012 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:188 Resp: 8099

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.3	4.6	6.8#





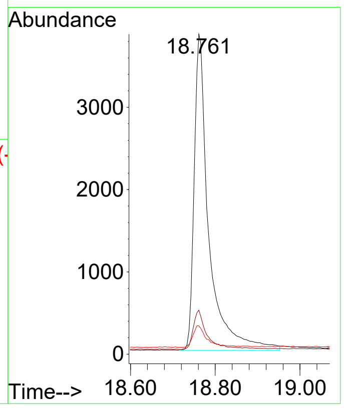
#27
Fluoranthene-d10
Concen: 0.400 ng
RT: 18.761 min Scan# 1

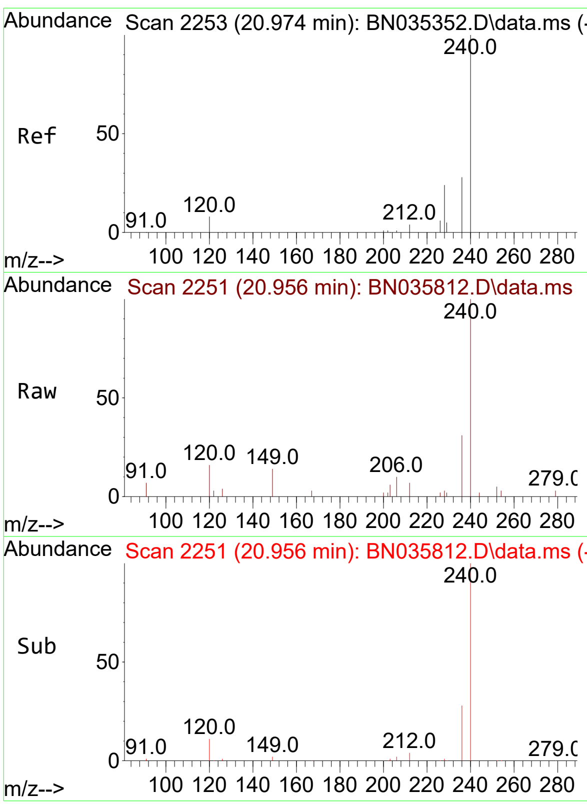
Instrument :
BNA_N
ClientSampleId :
PB165828BL

Delta R.T.   -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:212 Resp: 9188

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.3	5.3	7.9

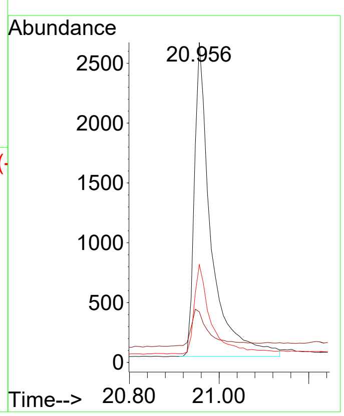


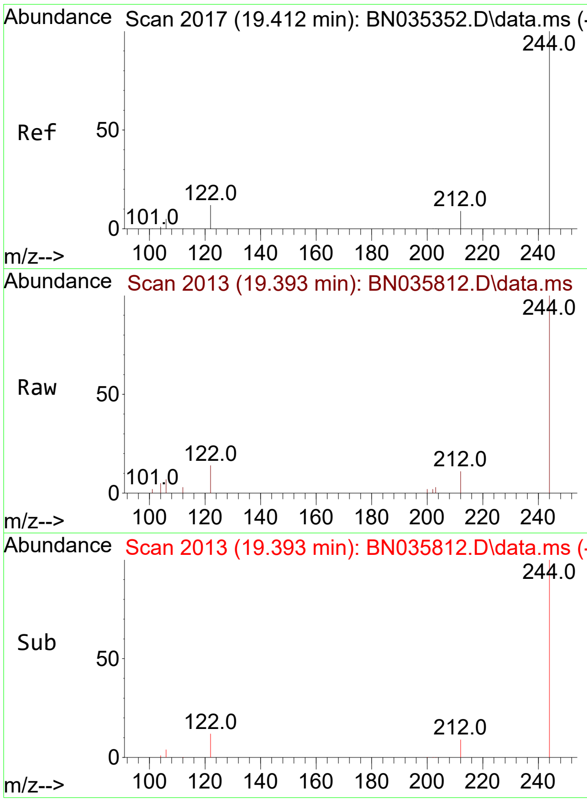


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2251
Delta R.T.   -0.000 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:240 Resp: 6756

Ion	Ratio	Lower	Upper
240	100		
120	15.8	7.9	11.9#
236	30.6	22.9	34.3



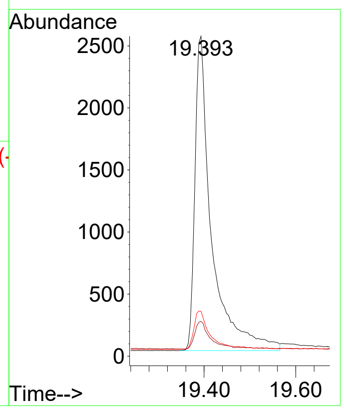


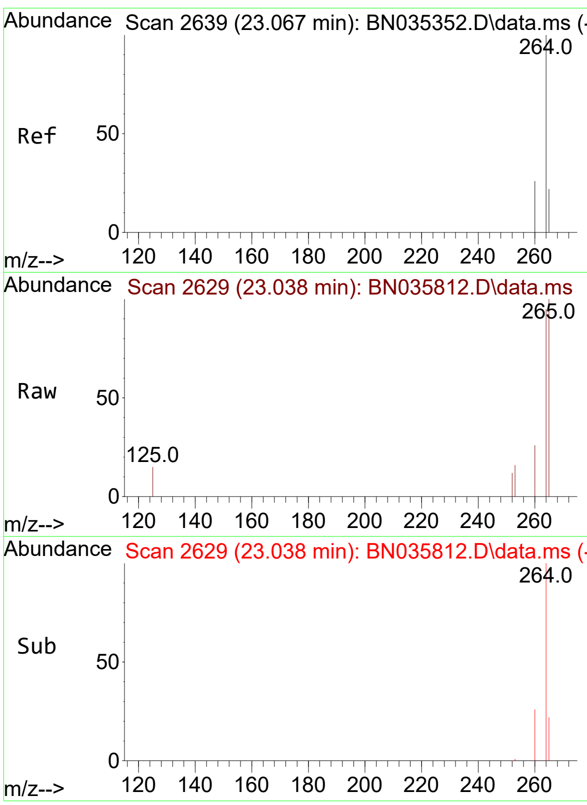
#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.393 min Scan# 20
Delta R.T. 0.004 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Instrument :
BNA_N
ClientSampleId :
PB165828BL

Tgt Ion:244 Resp: 6413

Ion	Ratio	Lower	Upper
244	100		
212	10.9	8.1	12.1
122	14.0	10.3	15.5

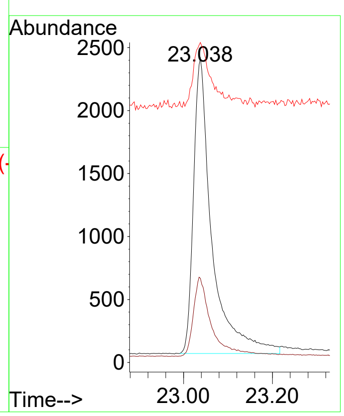




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2629
Delta R.T. -0.003 min
Lab File: BN035812.D
Acq: 24 Dec 2024 09:35

Tgt Ion:264 Resp: 6747

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.4	32.2
265	105.1	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	3131	0.400 ng	-0.01
7) Naphthalene-d8	9.998	136	7403	0.400 ng	-0.02
13) Acenaphthene-d10	13.914	164	4434	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	9040	0.400 ng	#-0.01
29) Chrysene-d12	20.947	240	8798	0.400 ng	# 0.00
35) Perylene-d12	23.026	264	9479	0.400 ng	#-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.932	112	943	0.120 ng	0.00
5) Phenol-d6	6.477	99	545	0.058 ng	-0.01
8) Nitrobenzene-d5	8.397	82	2211	0.489 ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	4950	0.427 ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	691	0.220 ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6280	0.375 ng	-0.02
27) Fluoranthene-d10	18.747	212	10896	0.425 ng	-0.01
31) Terphenyl-d14	19.379	244	8459	0.487 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	909	0.304 ng	# 85
3) n-Nitrosodimethylamine	3.270	42	393	0.158 ng	# 88
6) bis(2-Chloroethyl)ether	6.715	93	2329	0.294 ng	98
9) Naphthalene	10.052	128	7736	0.396 ng	99
10) Hexachlorobutadiene	10.340	225	1471	0.327 ng	# 100
12) 2-Methylnaphthalene	11.681	142	5119	0.366 ng	99
16) Acenaphthylene	13.625	152	8059	0.433 ng	99
17) Acenaphthene	13.978	154	5206	0.421 ng	99
18) Fluorene	14.983	166	6975	0.394 ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	266	0.299 ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	1959	0.370 ng	# 75
22) Hexachlorobenzene	16.003	284	2633	0.424 ng	98
23) Atrazine	16.189	200	1523	0.405 ng	96
24) Pentachlorophenol	16.363	266	1863	0.690 ng	# 86
25) Phenanthrene	16.735	178	12002	0.483 ng	100
26) Anthracene	16.822	178	10344	0.461 ng	99
28) Fluoranthene	18.780	202	14906	0.445 ng	99
30) Pyrene	19.147	202	15976	0.492 ng	99
32) Benzo(a)anthracene	20.929	228	13869	0.451 ng	99
33) Chrysene	20.983	228	16049	0.506 ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6067	0.499 ng	98
36) Indeno(1,2,3-cd)pyrene	25.052	276	15853	0.428 ng	98
37) Benzo(b)fluoranthene	22.418	252	20643	0.595 ng	# 94
38) Benzo(k)fluoranthene	22.459	252	16743	0.491 ng	# 94
39) Benzo(a)pyrene	22.939	252	13748	0.481 ng	# 89
40) Dibenzo(a,h)anthracene	25.067	278	11568	0.396 ng	94
41) Benzo(g,h,i)perylene	25.658	276	13235	0.433 ng	98

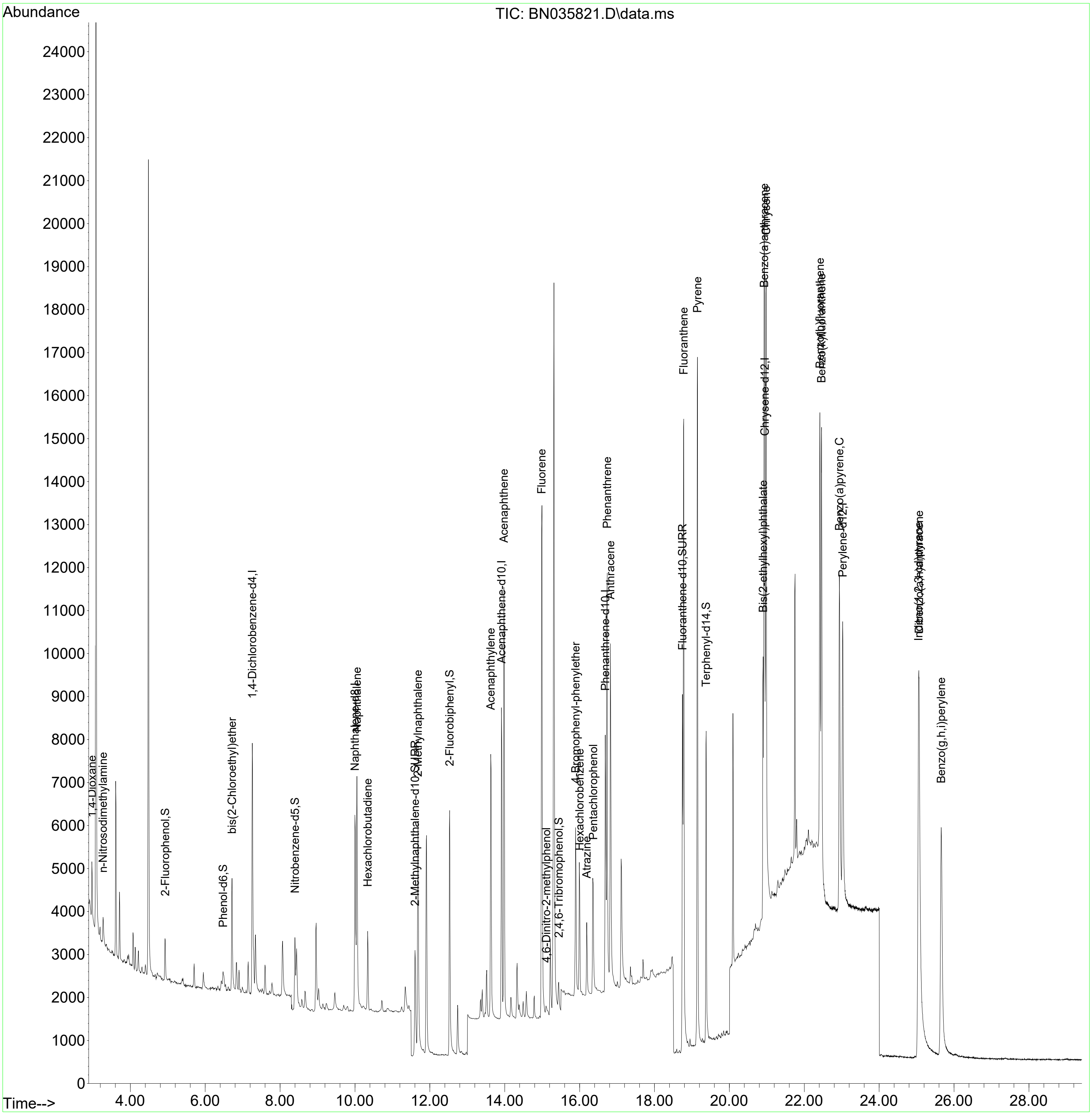
(#) = qualifier out of range (m) = manual integration (+) = signals summed

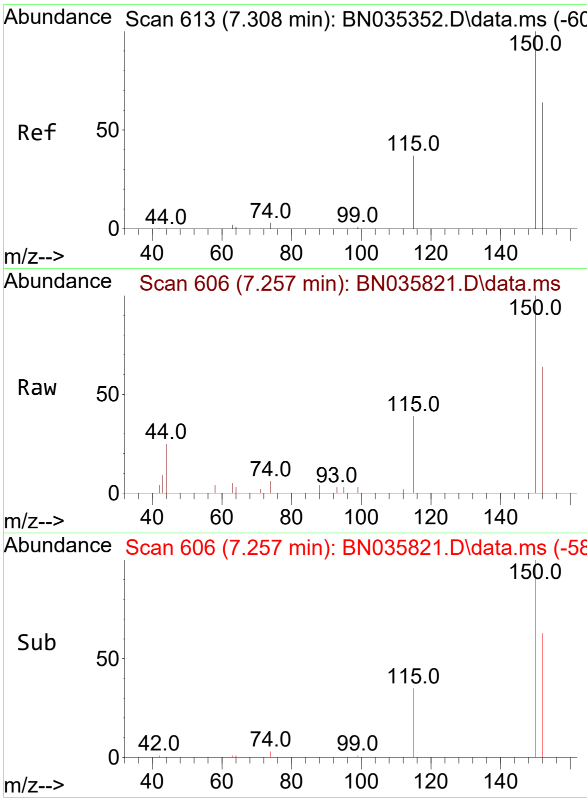
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035821.D
Acq On : 24 Dec 2024 14:55
Operator : RC/JU
Sample : P5376-08MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Quant Time: Dec 24 23:18:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





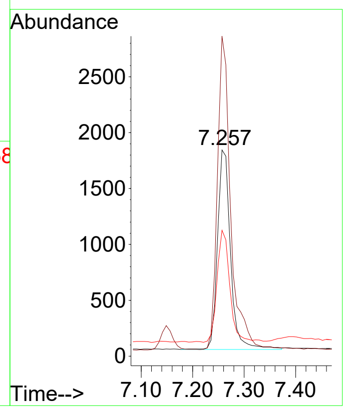
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(

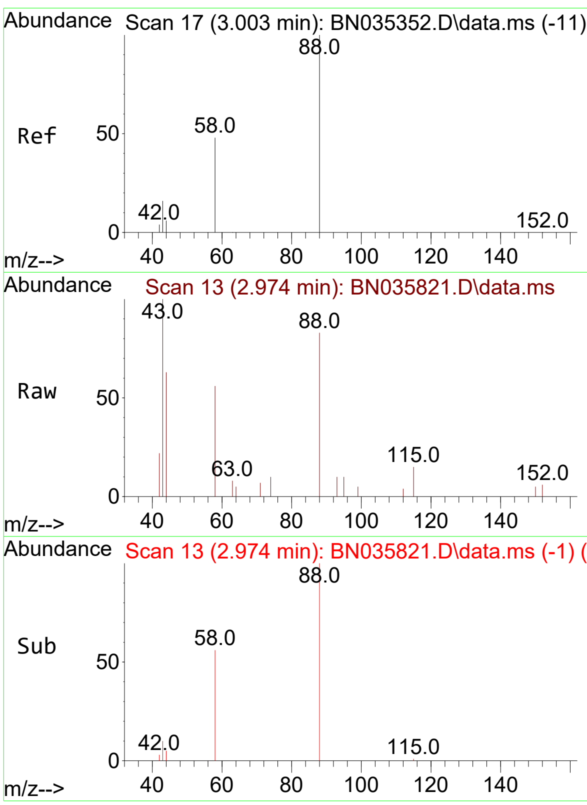
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 3131

Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.0	186.0
115	61.0	49.6	74.4

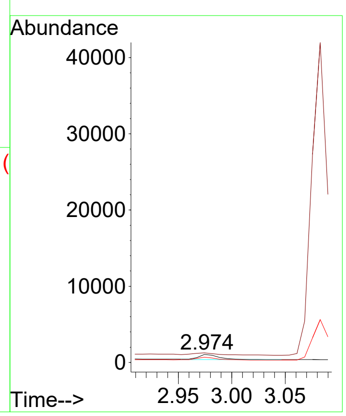


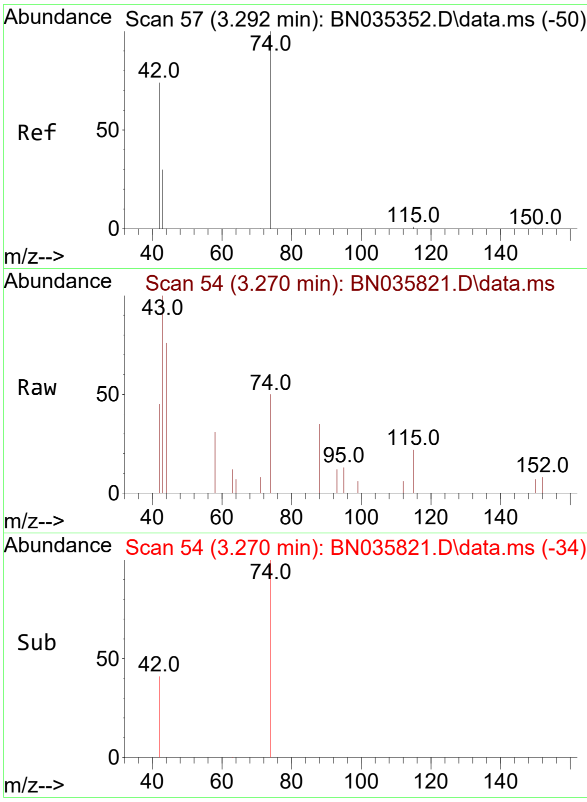


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 88 Resp: 909

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	58.4	44.5	66.7



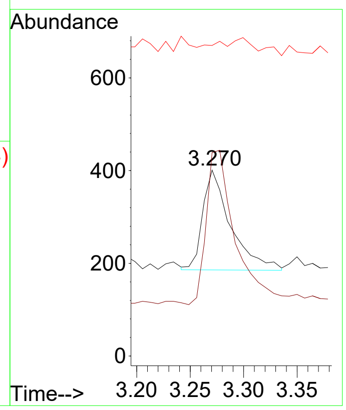


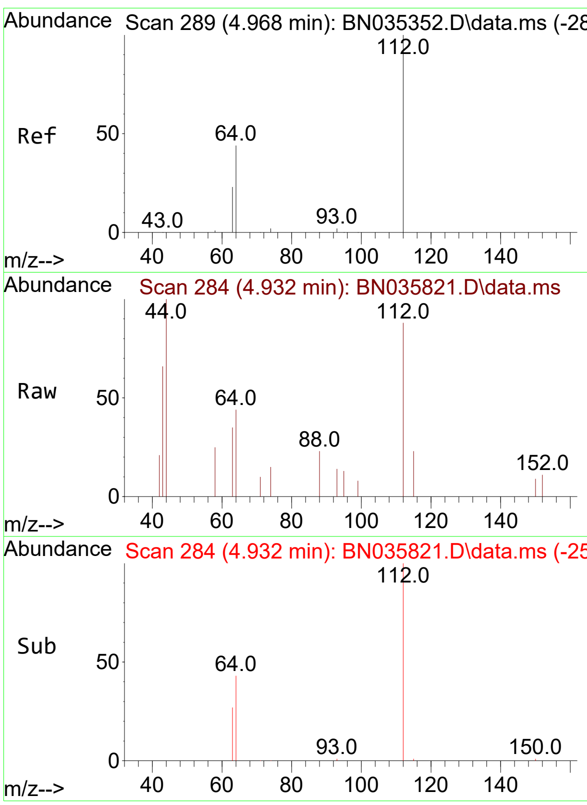
#3
n-Nitrosodimethylamine
Concen: 0.158 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion: 42 Resp: 393

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	0.0	2.2	3.4#

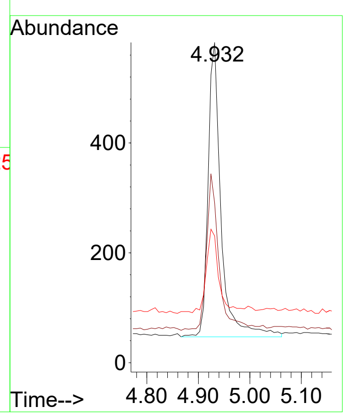


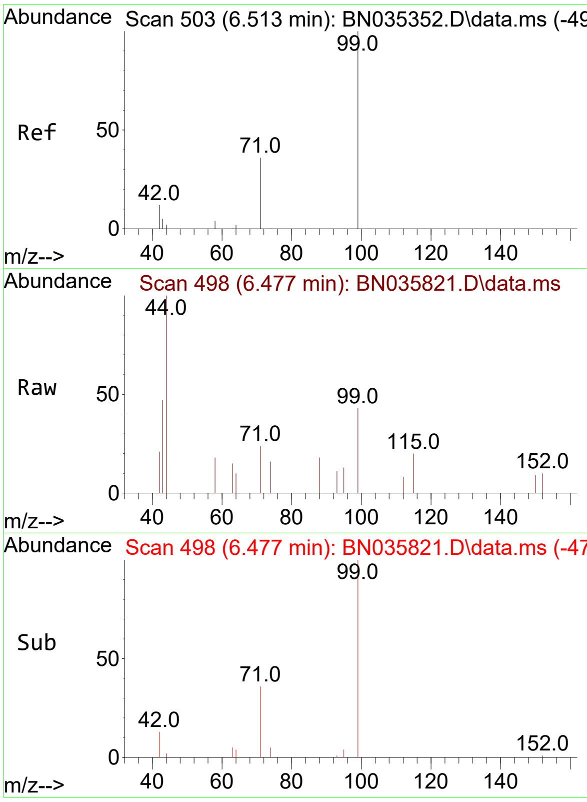


#4
2-Fluorophenol
Concen: 0.120 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:112 Resp: 943

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.8
63	28.2	21.0	31.6



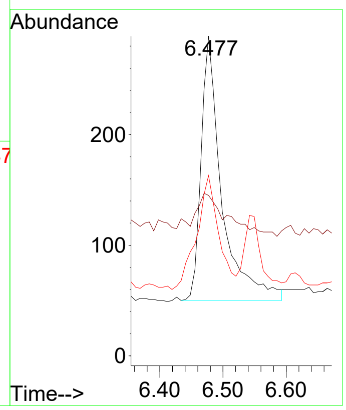


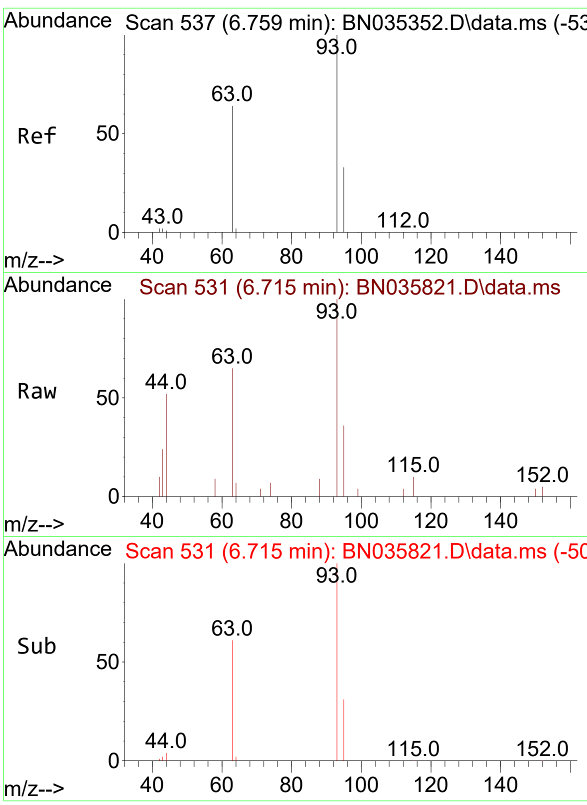
#5
Phenol-d6
Concen: 0.058 ng
RT: 6.477 min Scan# 49
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion: 99 Resp: 545

Ion	Ratio	Lower	Upper
99	100		
42	26.8	11.4	17.2#
71	45.9	29.3	43.9#

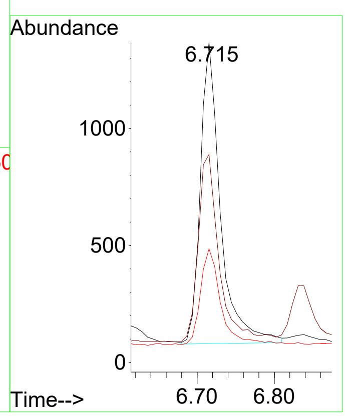


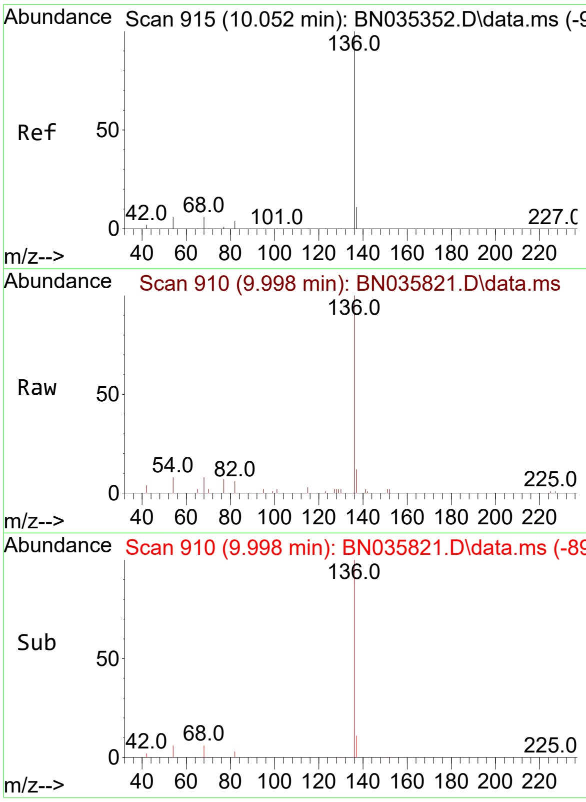


#6
bis(2-Chloroethyl)ether
Concen: 0.294 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 93 Resp: 2329

Ion	Ratio	Lower	Upper
93	100		
63	65.2	50.4	75.6
95	32.6	25.7	38.5



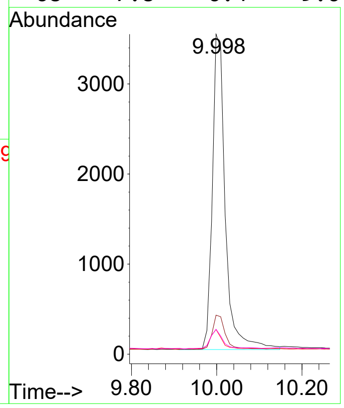


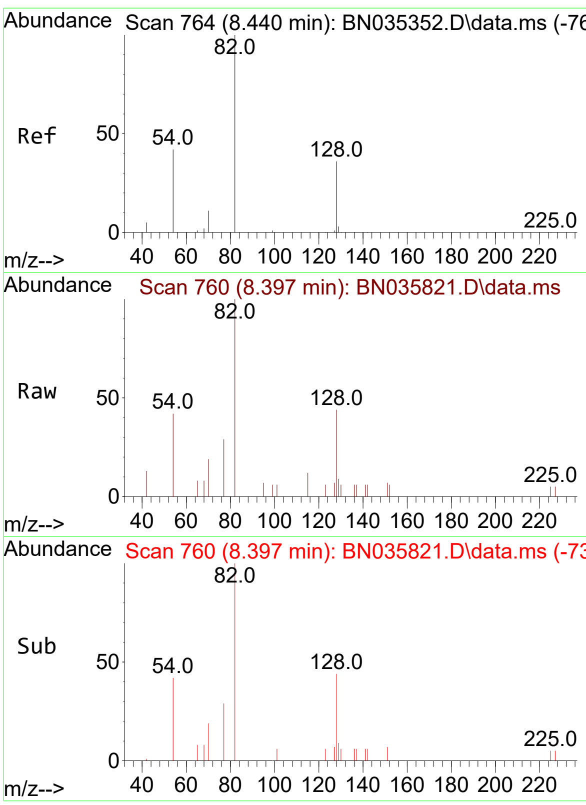
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:136 Resp: 7403

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6

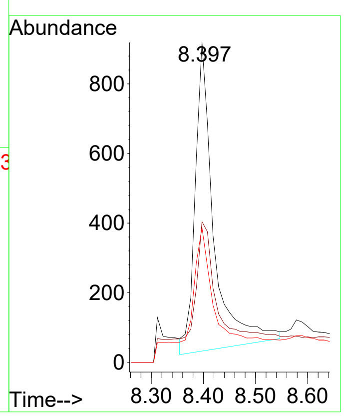


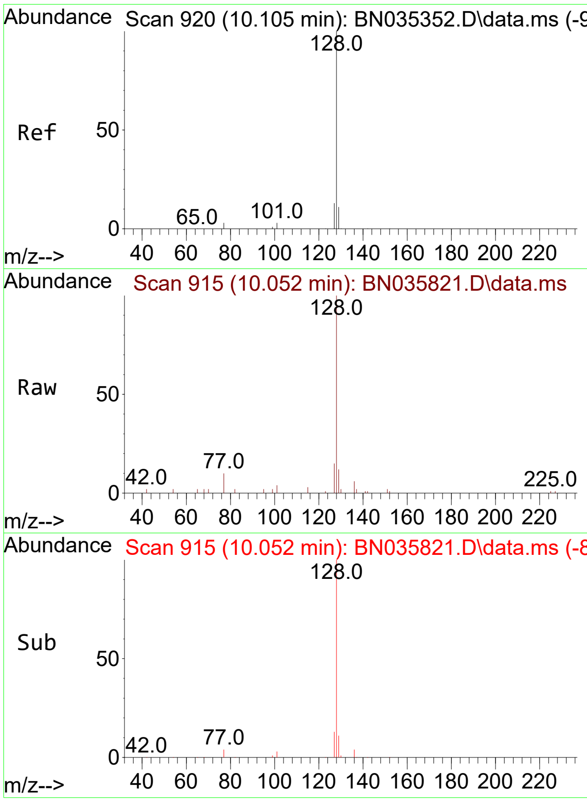


#8
Nitrobenzene-d5
Concen: 0.489 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion: 82 Resp: 2211

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	42.1	36.7	55.1



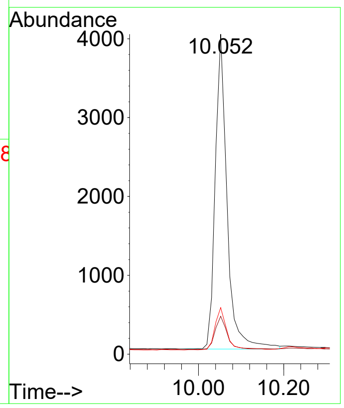


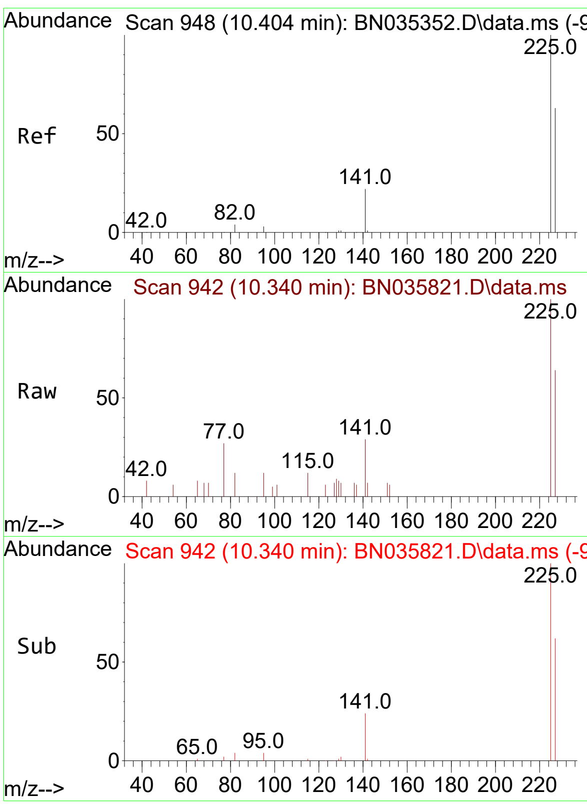
#9
Naphthalene
Concen: 0.396 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:128 Resp: 7736

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	14.5	11.4	17.2

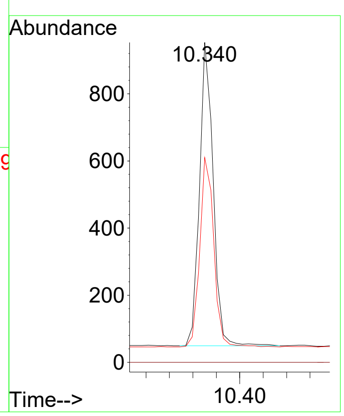


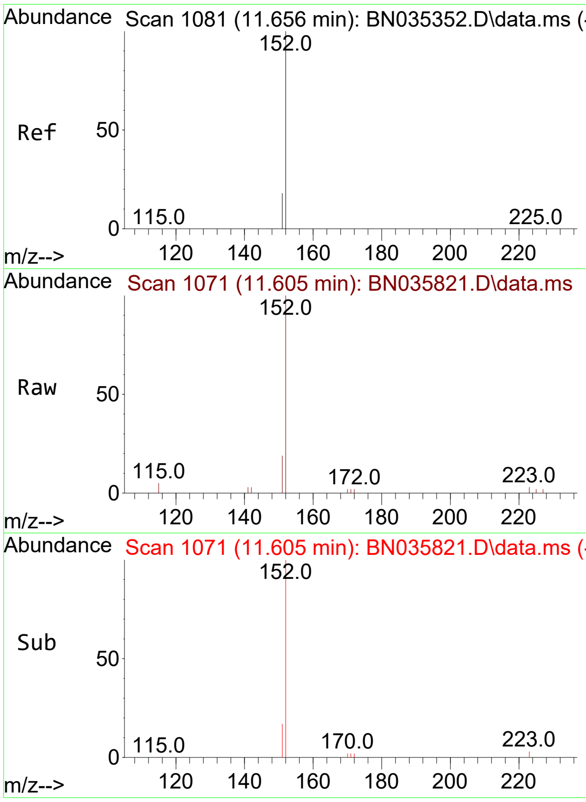


#10
Hexachlorobutadiene
Concen: 0.327 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:225 Resp: 1471

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.3	76.9



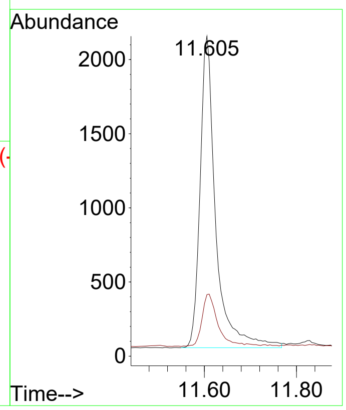


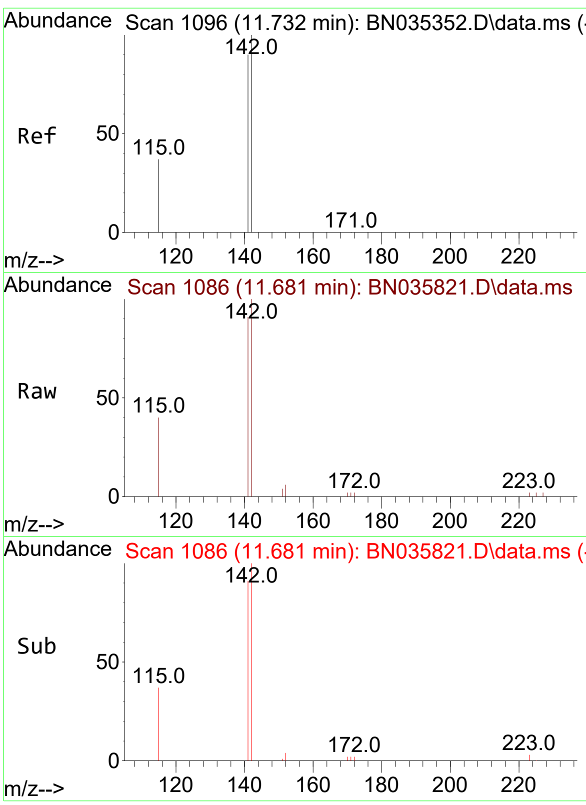
#11
2-Methylnaphthalene-d10
Concen: 0.427 ng
RT: 11.605 min Scan# 10
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:152 Resp: 4950

Ion	Ratio	Lower	Upper
152	100		
151	16.7	16.6	25.0

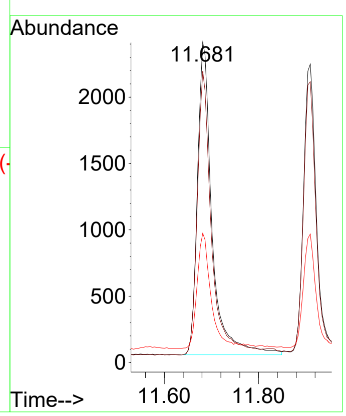


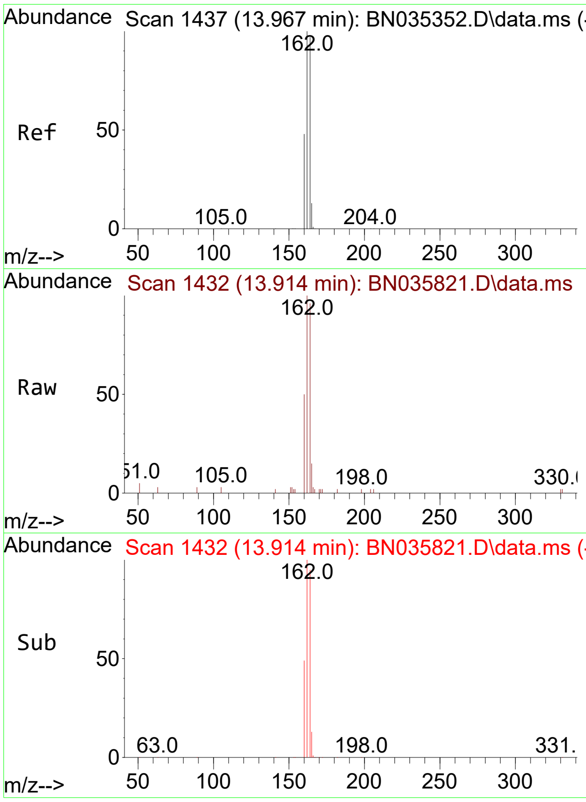


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:142 Resp: 5119

Ion	Ratio	Lower	Upper
142	100		
141	91.0	72.2	108.4
115	40.3	31.4	47.0



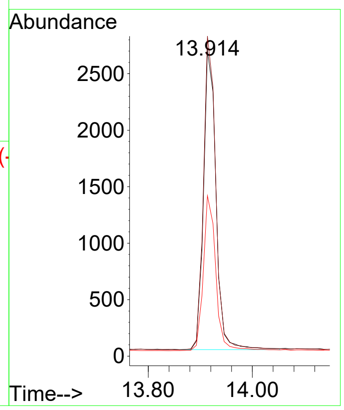


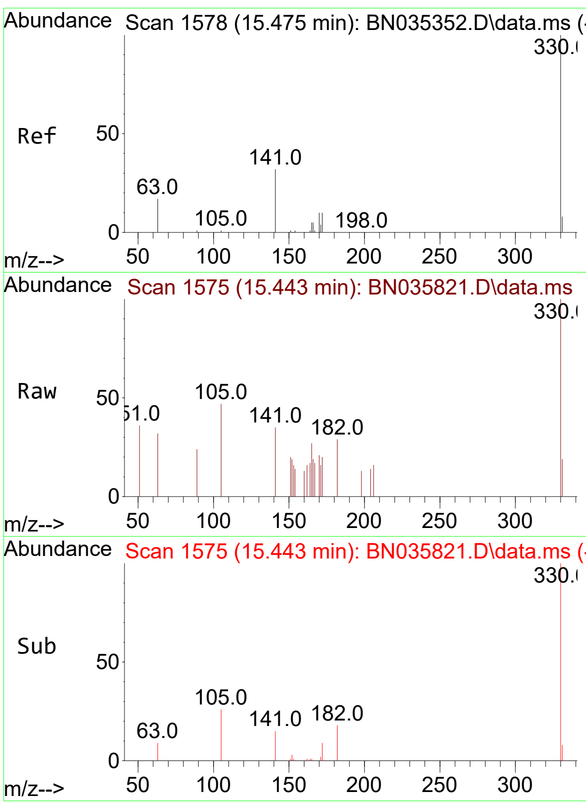
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:164 Resp: 4434

Ion	Ratio	Lower	Upper
164	100		
162	104.6	82.2	123.2
160	52.4	40.1	60.1

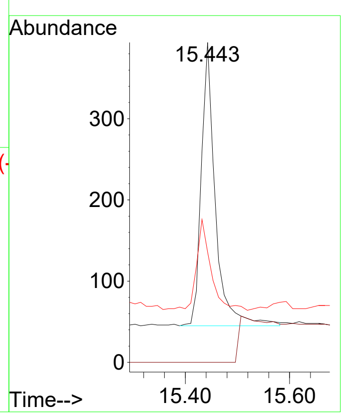


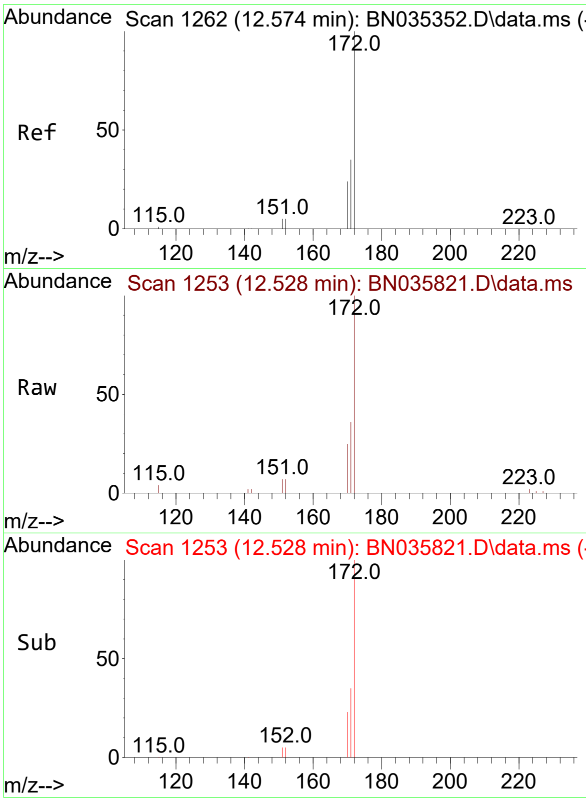


#14
2,4,6-Tribromophenol
Concen: 0.220 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:330 Resp: 691

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.1	26.6	40.0



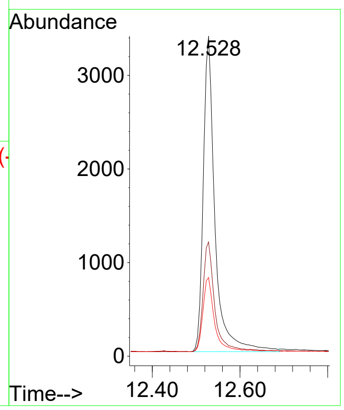


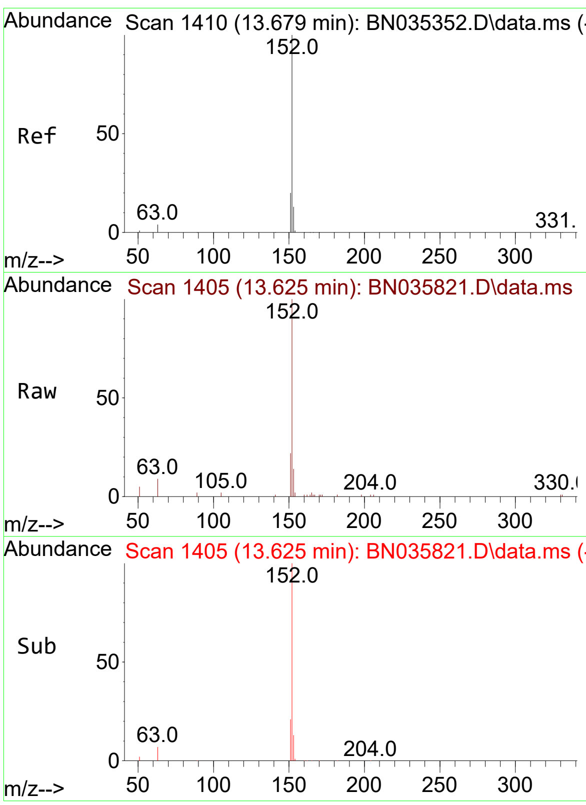
#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:172 Resp: 6280

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.6	19.8	29.8

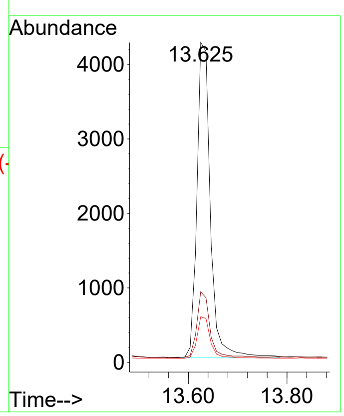


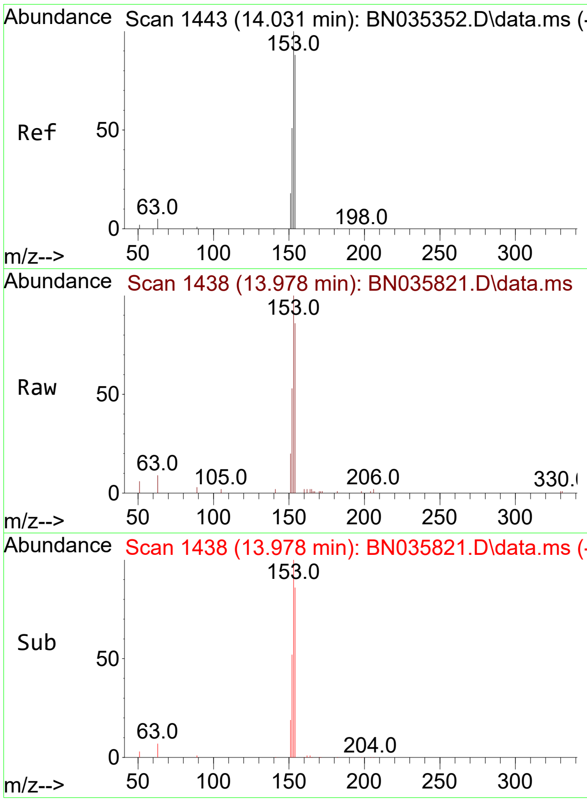


#16
Acenaphthylene
Concen: 0.433 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:152 Resp: 8059

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.4	10.4	15.6





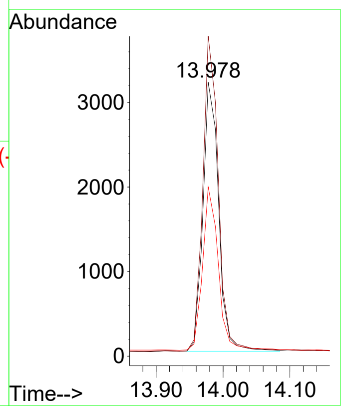
#17
Acenaphthene
Concen: 0.421 ng
RT: 13.978 min Scan# 14

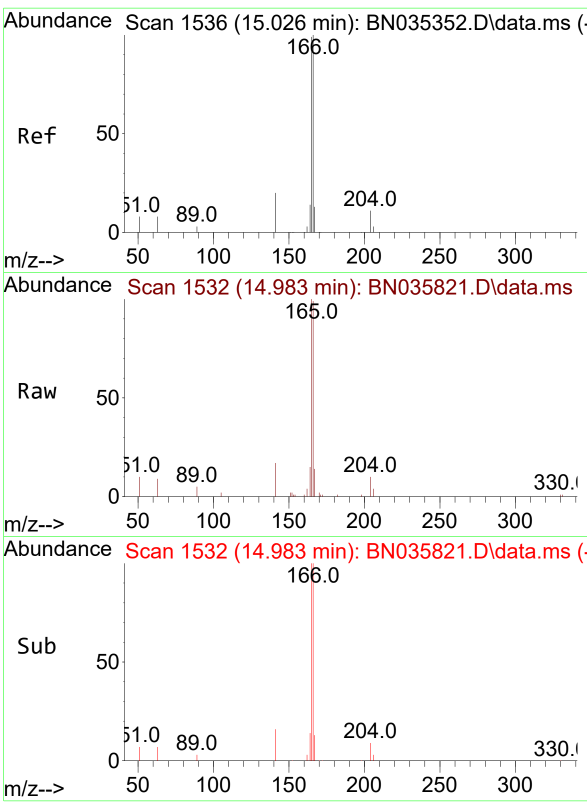
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:154 Resp: 5206

Ion	Ratio	Lower	Upper
154	100		
153	116.9	92.6	139.0
152	60.7	49.0	73.6

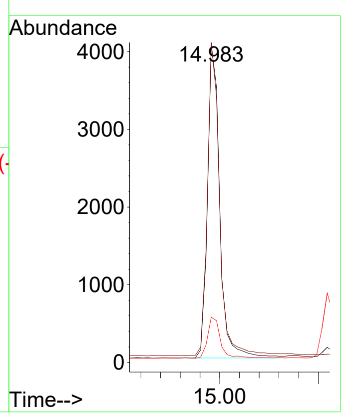


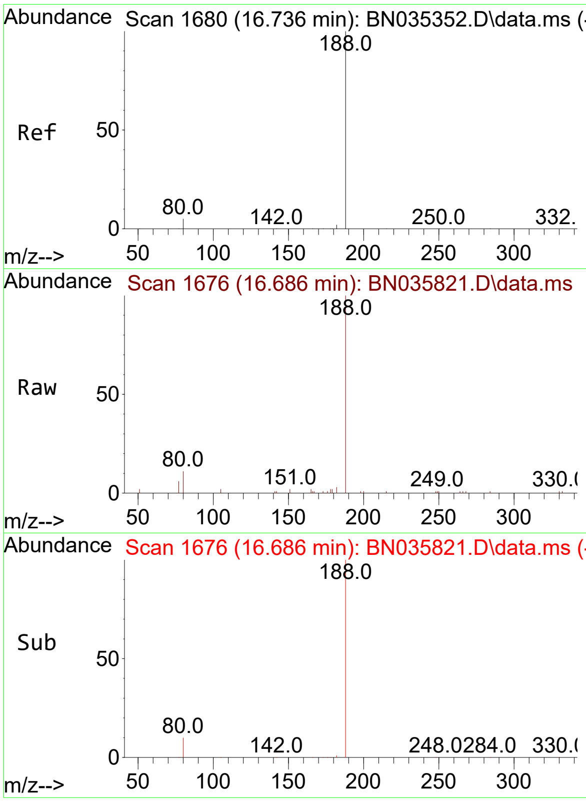


#18
Fluorene
Concen: 0.394 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:166 Resp: 6975

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	14.0	10.8	16.2





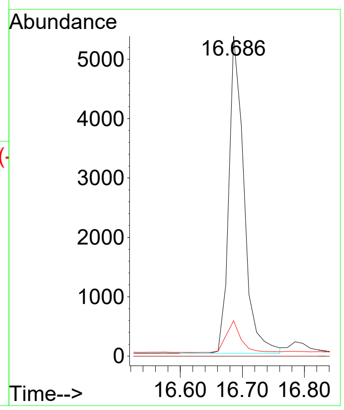
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1

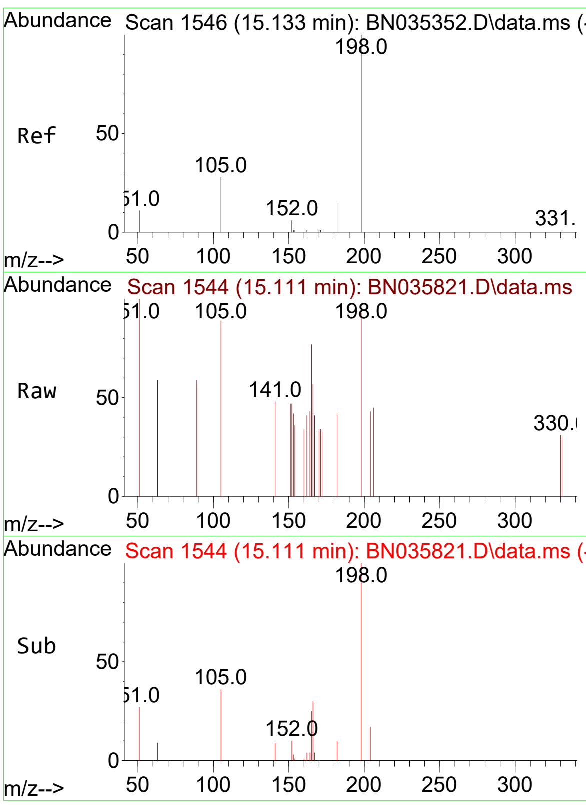
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:188 Resp: 9040

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	4.6	6.8#

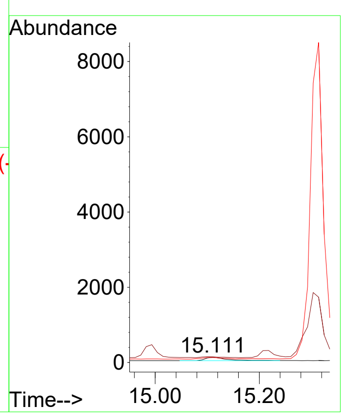


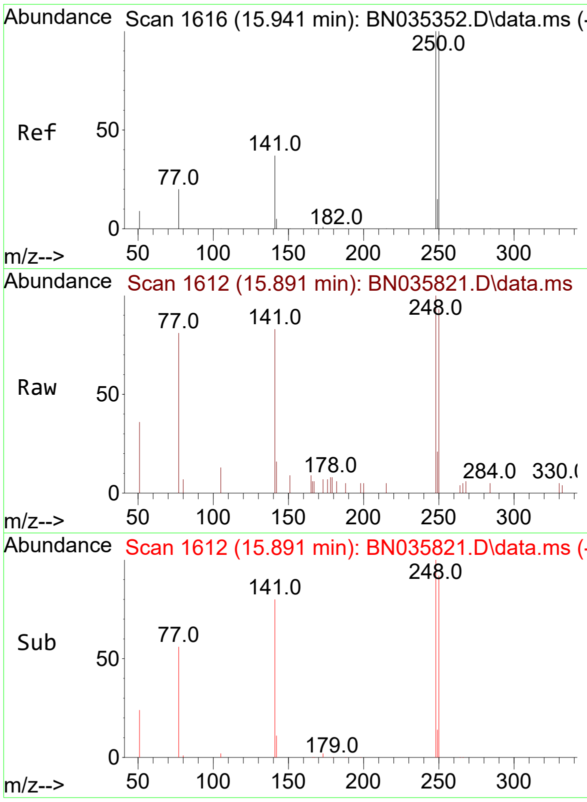


#20
4,6-Dinitro-2-methylphenol
Concen: 0.299 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:198 Resp: 266

Ion	Ratio	Lower	Upper
198	100		
51	108.0	46.5	69.7#
105	96.4	45.3	67.9#



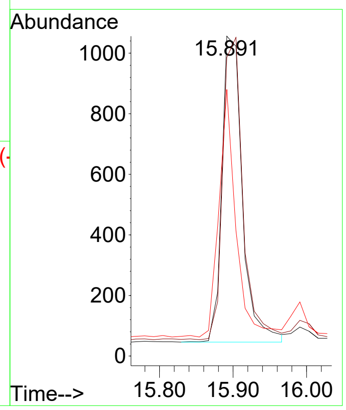


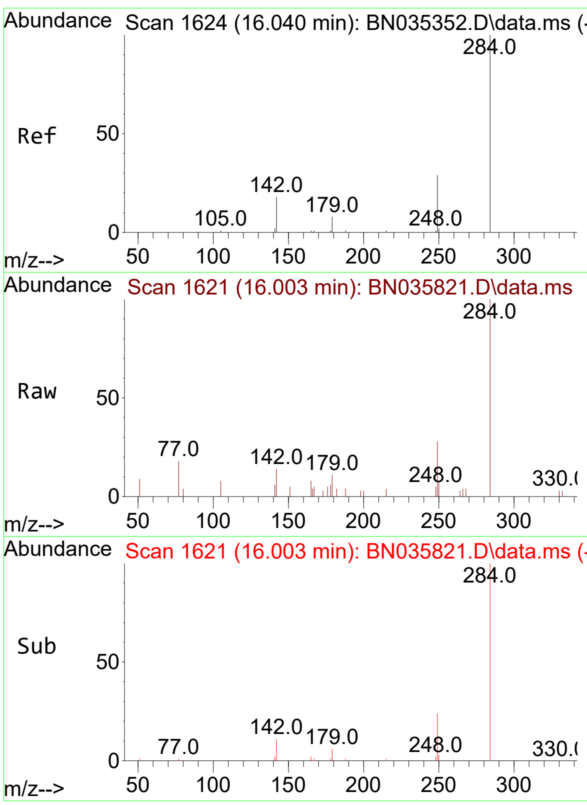
#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:248 Resp: 1959

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	83.3	31.5	47.3#

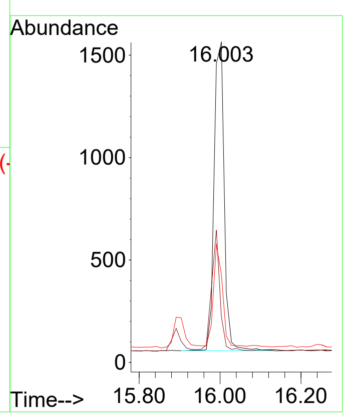


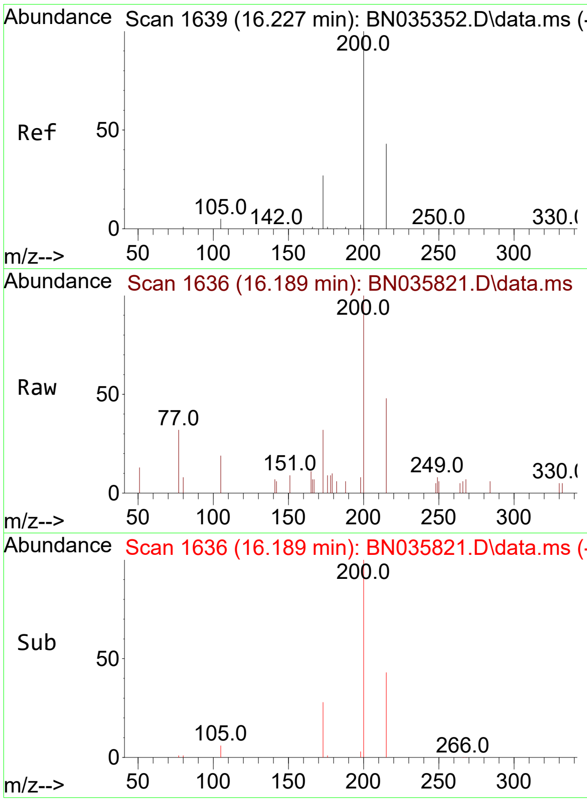


#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:284 Resp: 2633

Ion	Ratio	Lower	Upper
284	100		
142	32.3	26.7	40.1
249	29.1	24.6	36.8



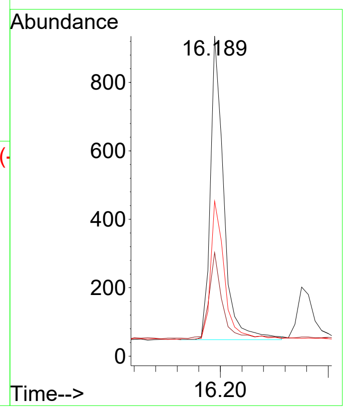


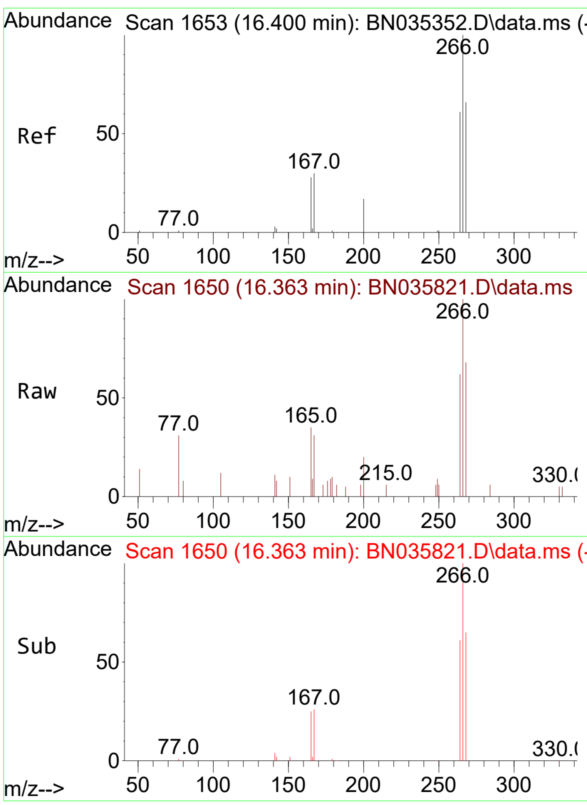
#23
Atrazine
Concen: 0.405 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:200 Resp: 1523

Ion	Ratio	Lower	Upper
200	100		
173	32.4	24.1	36.1
215	48.4	36.9	55.3

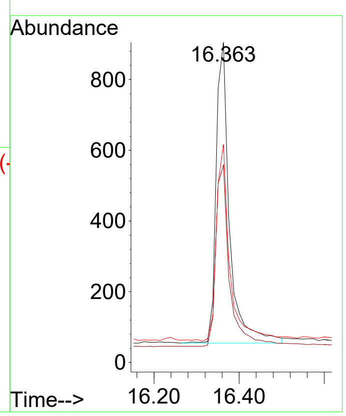


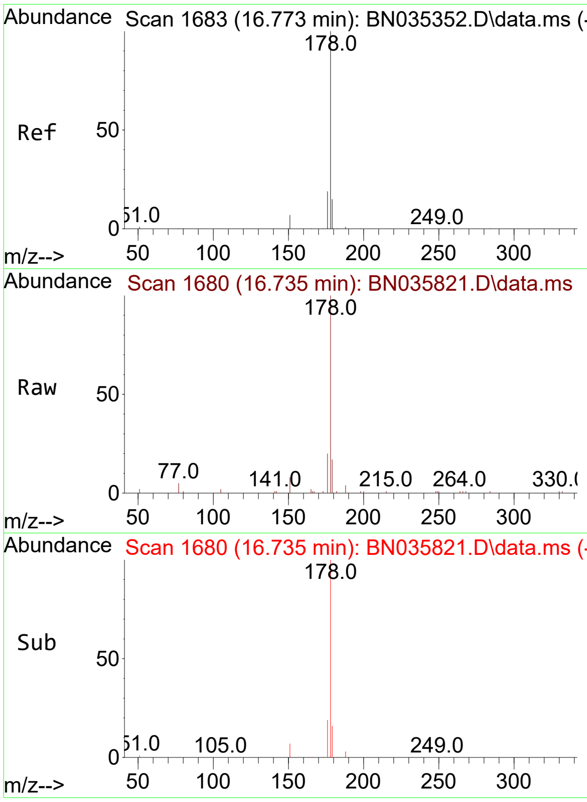


#24
Pentachlorophenol
Concen: 0.690 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:266 Resp: 1863

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	65.9	43.3	64.9#



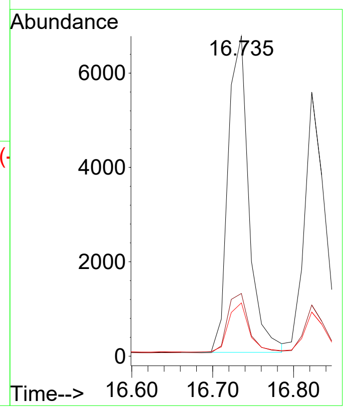


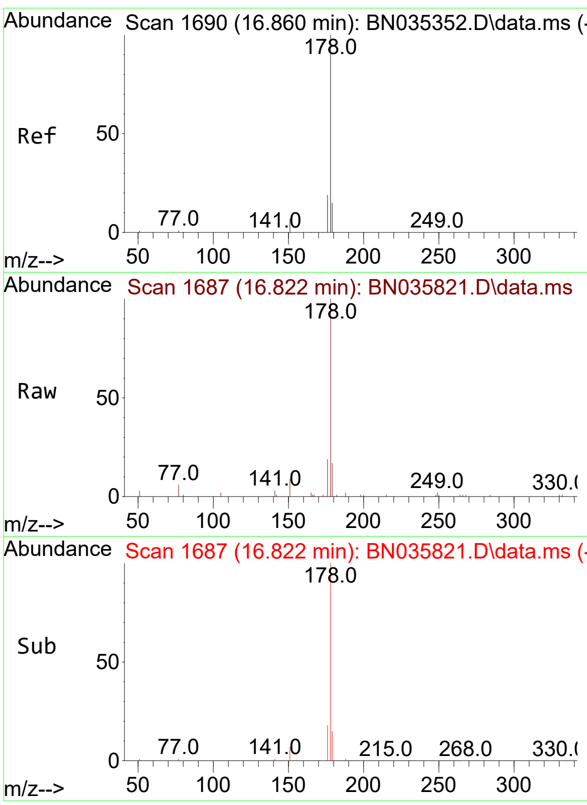
#25
Phenanthrene
Concen: 0.483 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:178 Resp: 12002

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

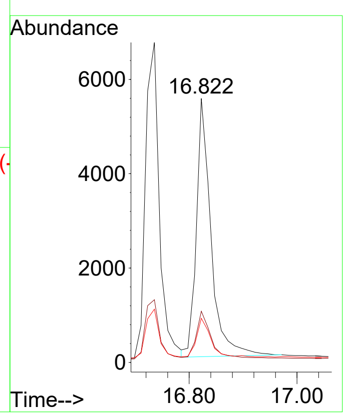


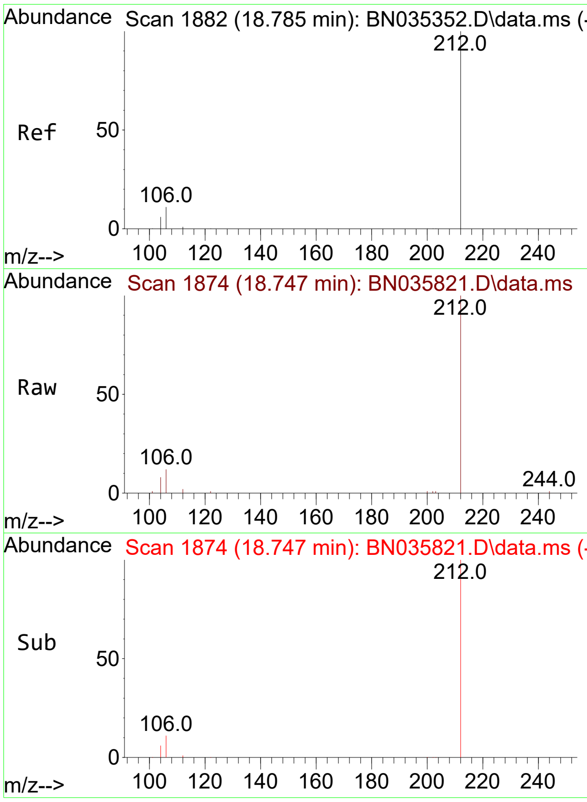


#26
Anthracene
Concen: 0.461 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:178 Resp: 10344

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	14.9	12.6	18.8



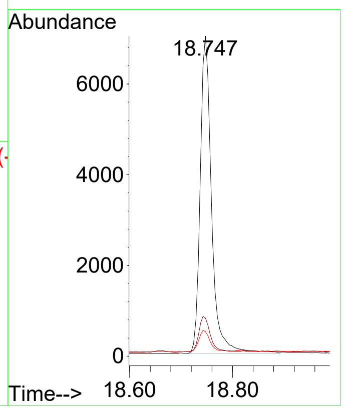


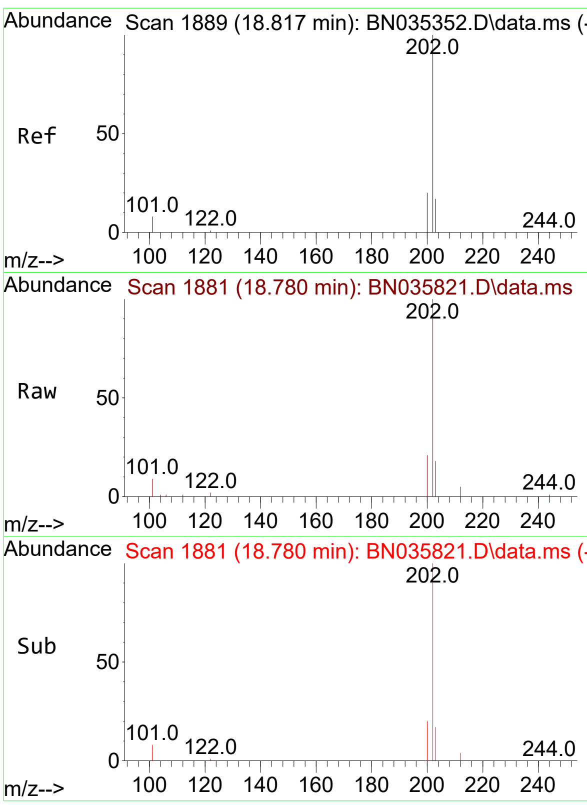
#27
Fluoranthene-d10
Concen: 0.425 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:212 Resp: 10896

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.7	5.3	7.9

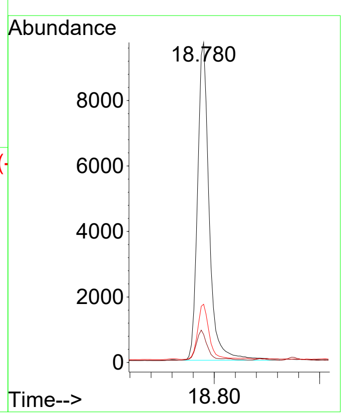


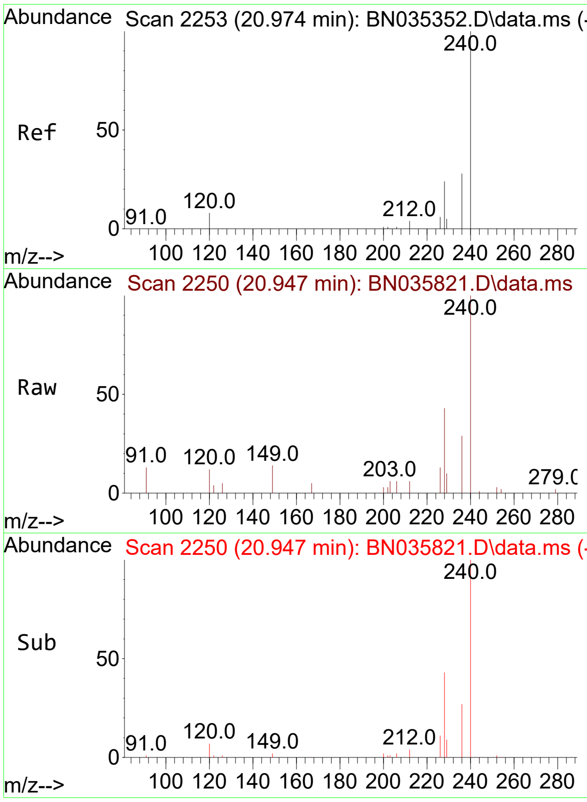


#28
Fluoranthene
Concen: 0.445 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 14906

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	17.4	13.7	20.5



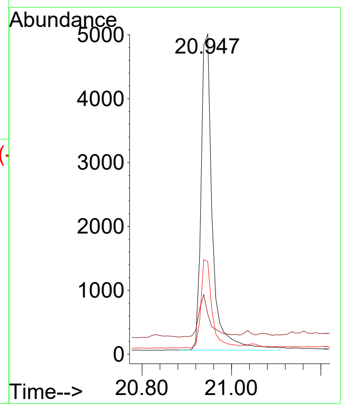


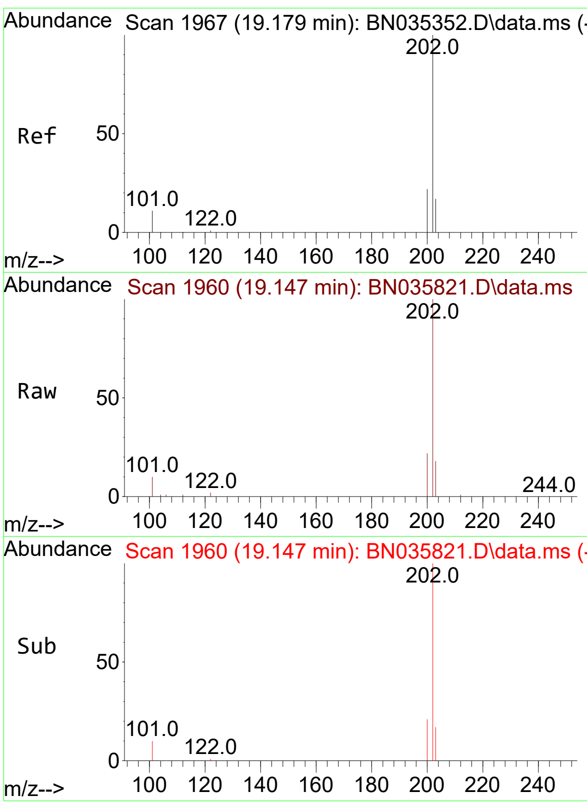
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:240 Resp: 8798

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9#
236	29.0	22.9	34.3

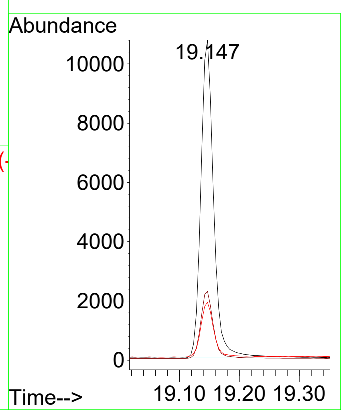


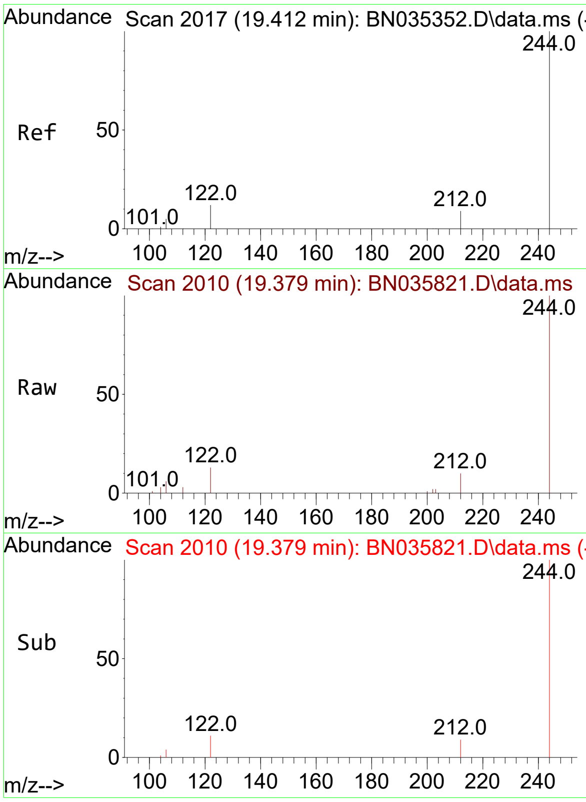


#30
Pyrene
Concen: 0.492 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:202 Resp: 15976

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.5	14.3	21.5



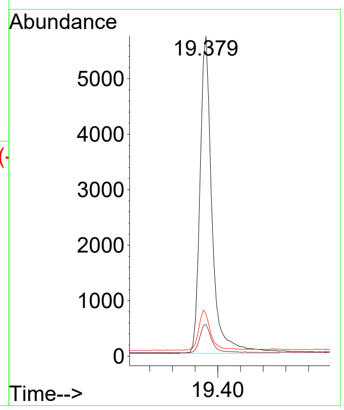


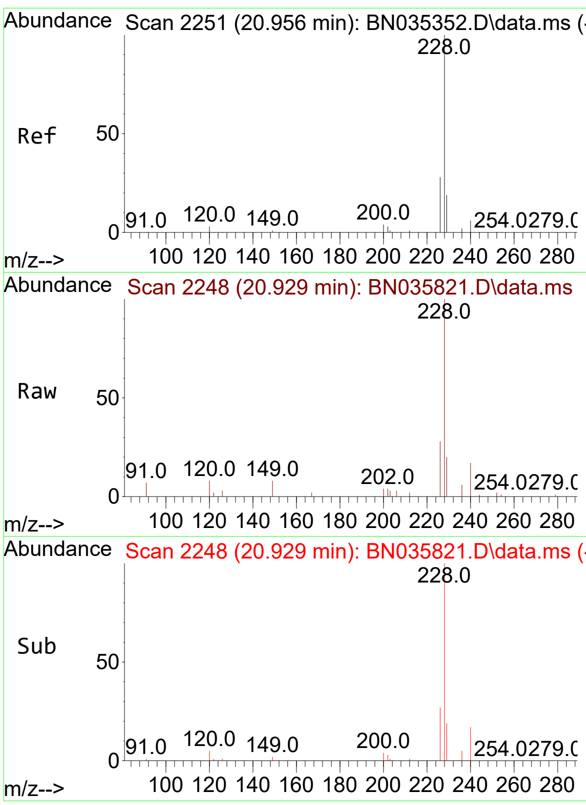
#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:244 Resp: 8459

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.2	10.3	15.5

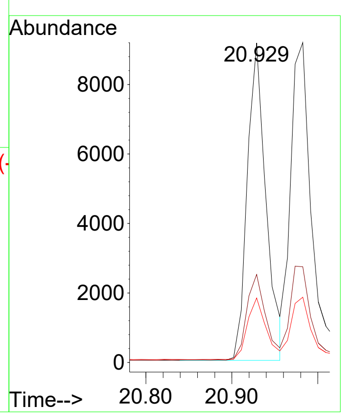


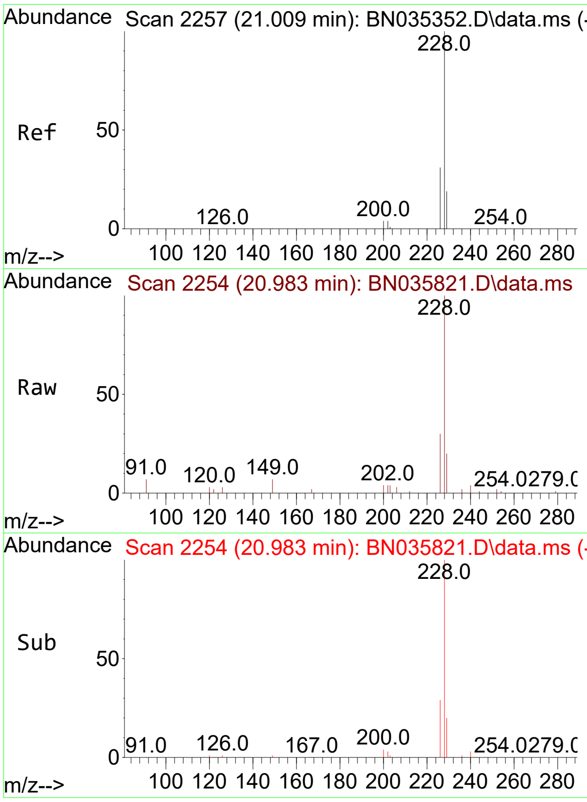


#32
Benzo(a)anthracene
Concen: 0.451 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:228 Resp: 13869

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.5	33.7
229	20.2	15.8	23.8



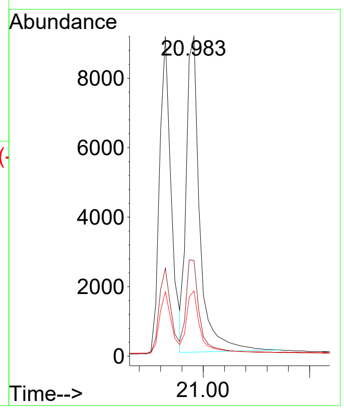


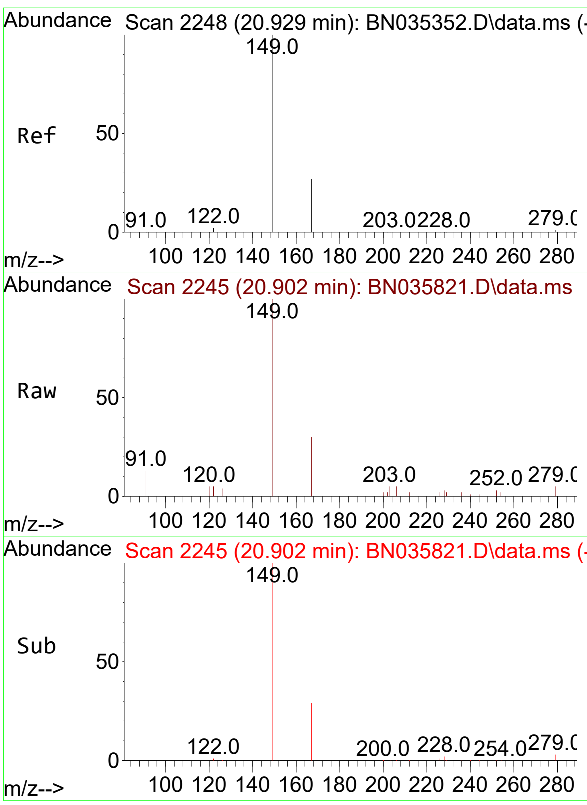
#33
Chrysene
Concen: 0.506 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:228 Resp: 16049

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	20.4	15.9	23.9

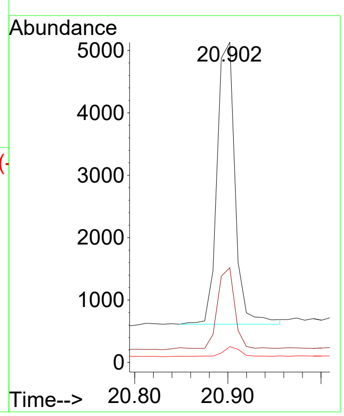


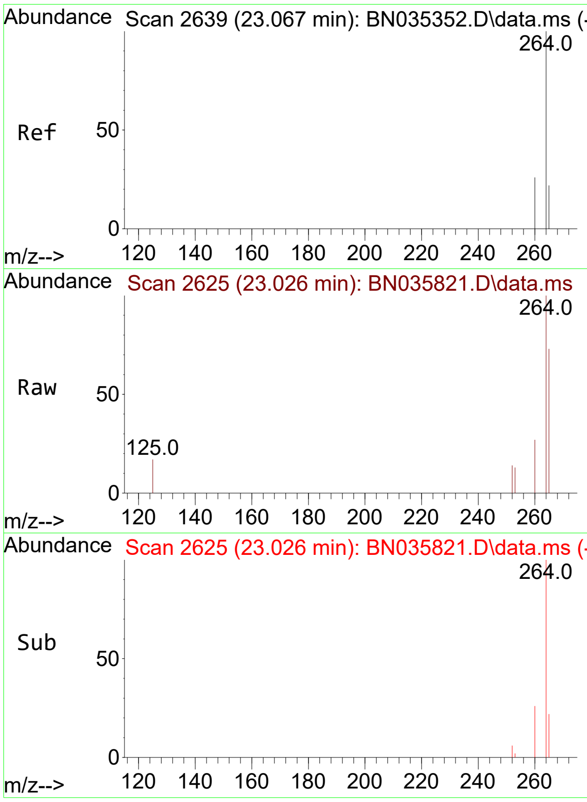


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.499 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:149 Resp: 6067

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.4
279	3.2	2.7	4.1



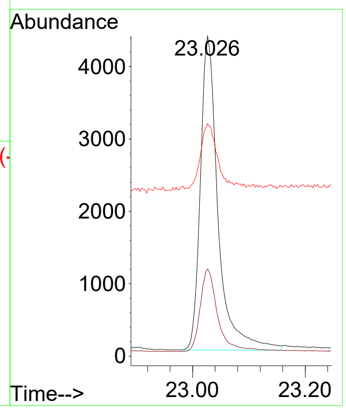


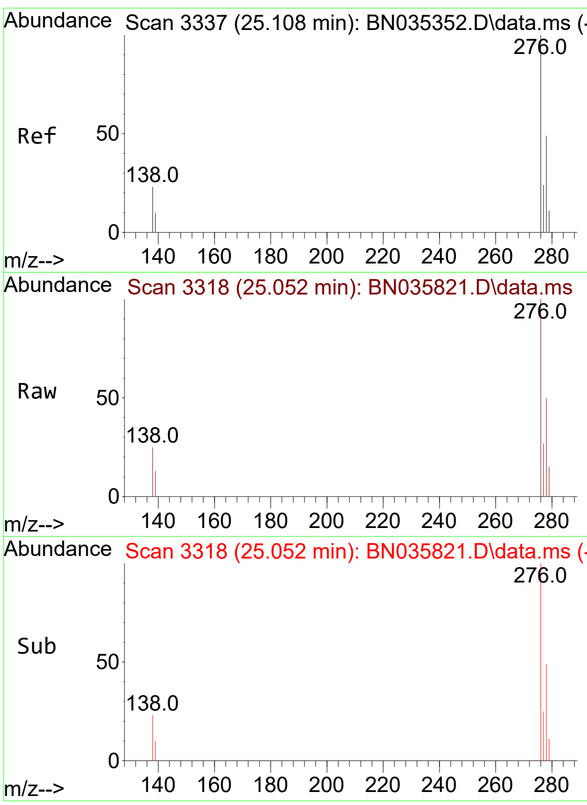
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2(
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:264 Resp: 9479

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	72.7	40.2	60.4#

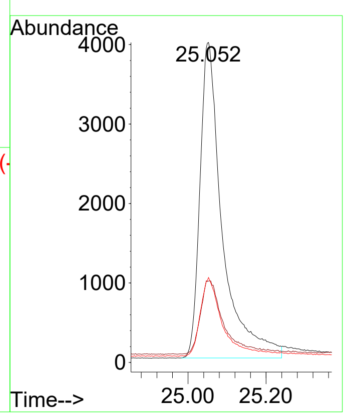


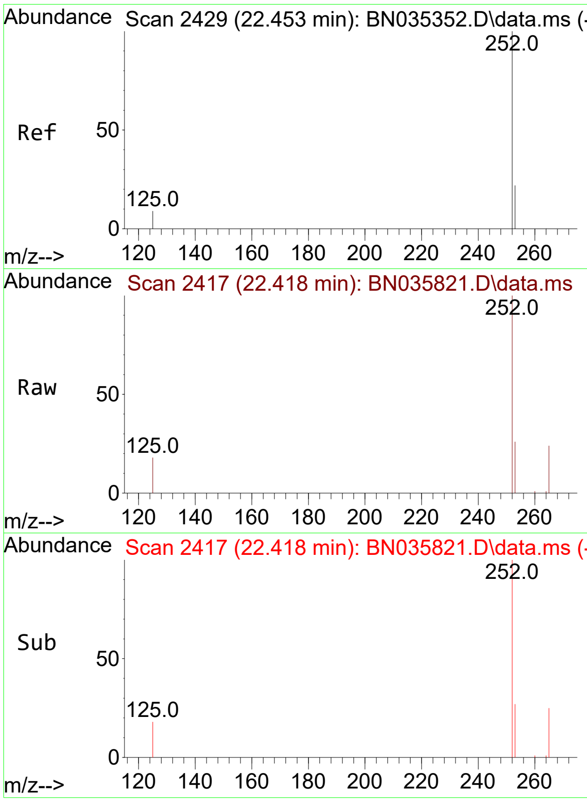


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.428 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:276 Resp: 15853

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.1	19.8	29.6



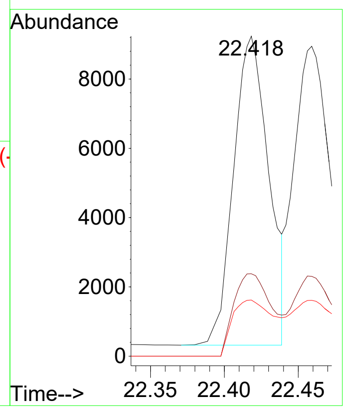


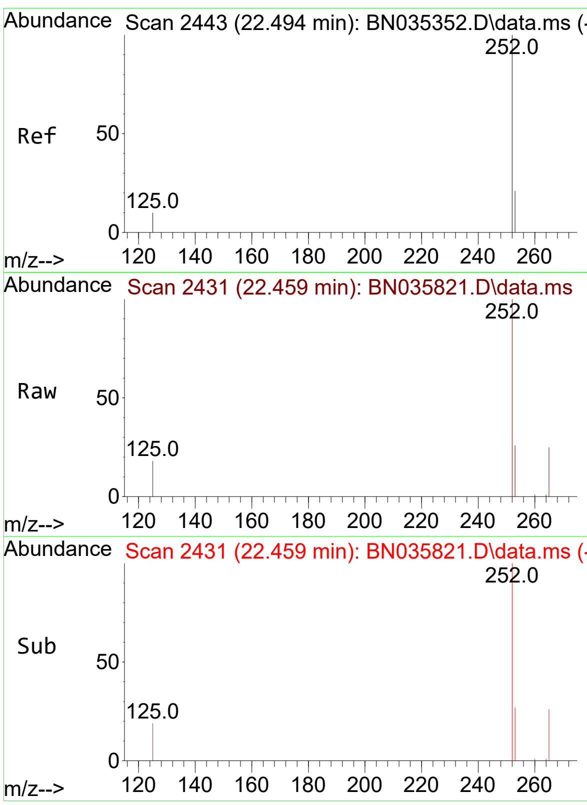
#37
Benzo(b)fluoranthene
Concen: 0.595 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 20643

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	17.6	9.6	14.4#

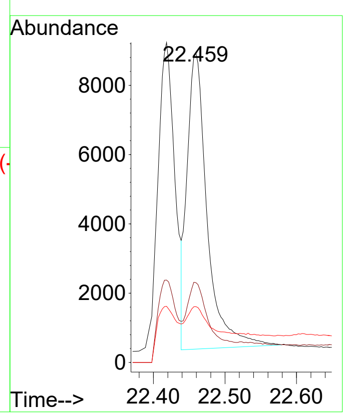


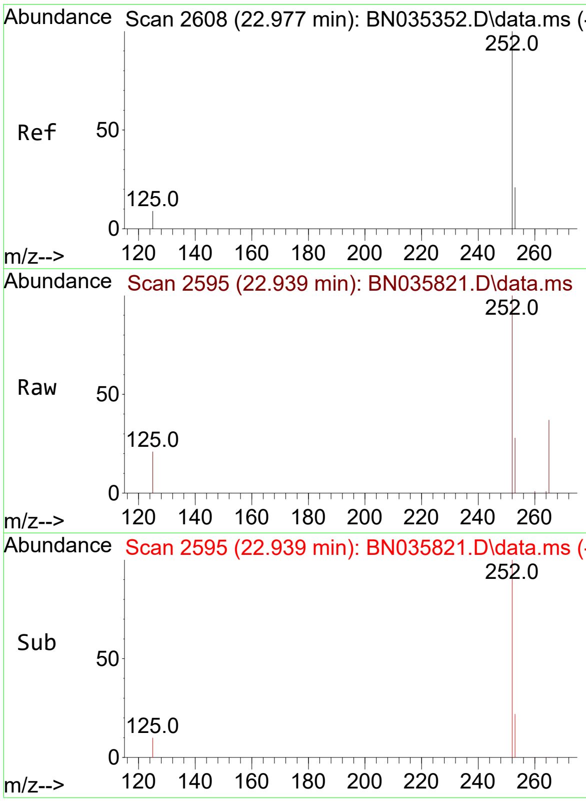


#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Tgt Ion:252 Resp: 16743

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.5	29.3
125	18.0	10.2	15.4#



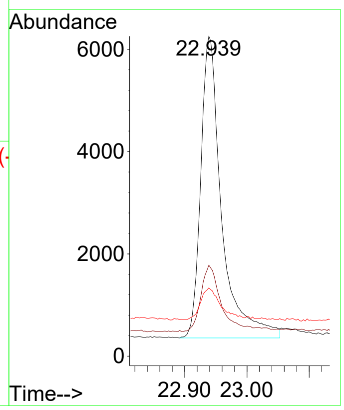


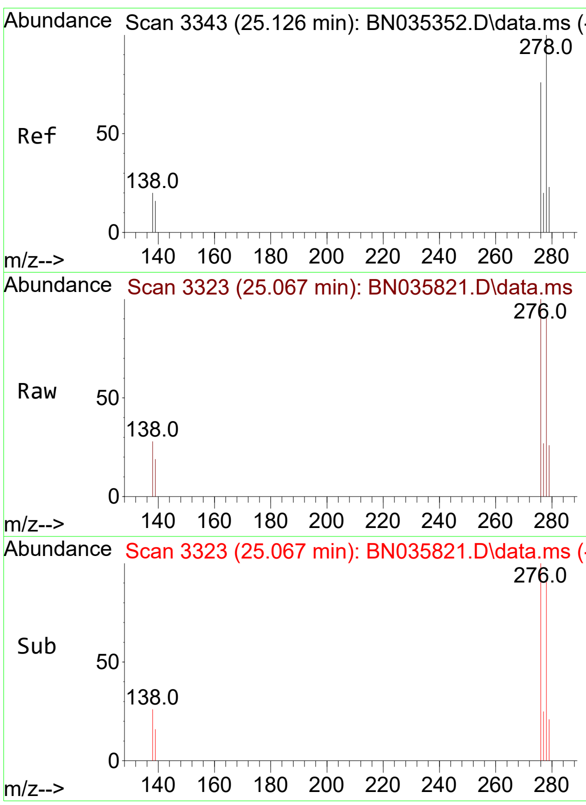
#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min   Scan# 2
Delta R.T.   -0.012 min
Lab File: BN035821.D
Acq: 24 Dec 2024   14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:252 Resp: 13748

Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	21.3	10.9	16.3#

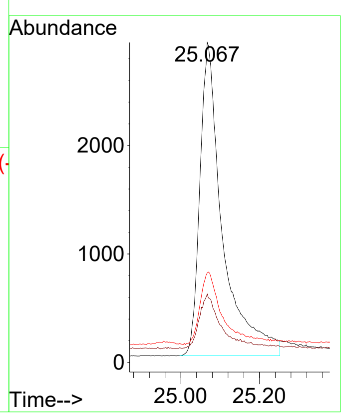


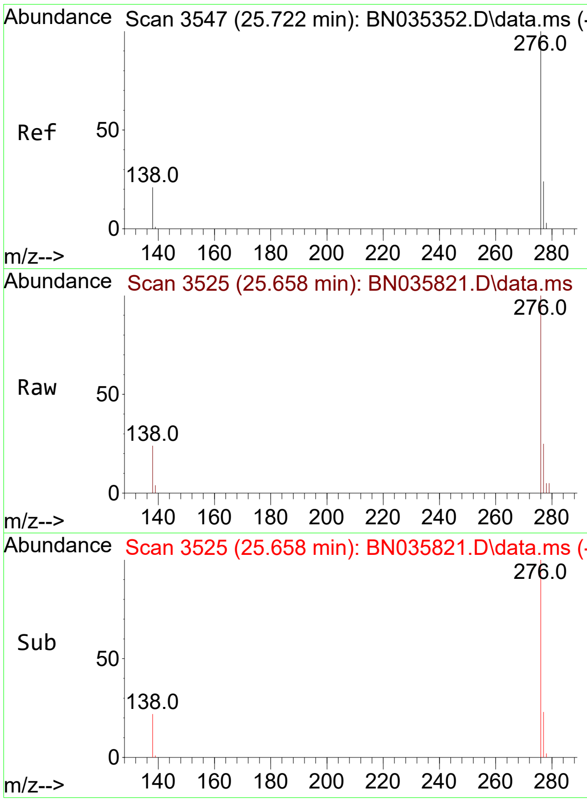


#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.067 min   Scan# 3323
Delta R.T.   -0.015 min
Lab File: BN035821.D
Acq: 24 Dec 2024   14:55

Tgt Ion:278 Resp: 11568

Ion	Ratio	Lower	Upper
278	100		
139	21.3	14.2	21.4
279	28.0	20.5	30.7



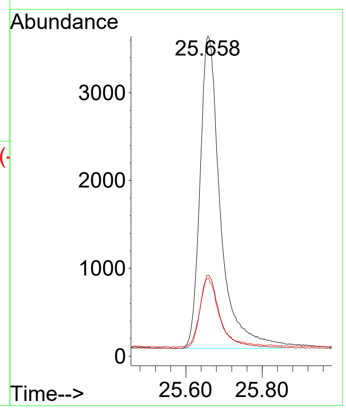


#41
Benzo(g,h,i)perylene
Concen: 0.433 ng
RT: 25.658 min Scan# 3!
Delta R.T. -0.021 min
Lab File: BN035821.D
Acq: 24 Dec 2024 14:55

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MS

Tgt Ion:276 Resp: 13235

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	24.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	3187	0.400 ng	-0.01
7) Naphthalene-d8	9.998	136	7953	0.400 ng	-0.02
13) Acenaphthene-d10	13.914	164	4887	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	10068	0.400 ng	#-0.01
29) Chrysene-d12	20.938	240	9501	0.400 ng	#-0.02
35) Perylene-d12	23.020	264	9990	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.932	112	967	0.121 ng	0.00
5) Phenol-d6	6.477	99	640	0.067 ng	-0.01
8) Nitrobenzene-d5	8.397	82	2382	0.490 ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5387	0.433 ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	787	0.227 ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6851	0.371 ng	-0.02
27) Fluoranthene-d10	18.747	212	12293	0.431 ng	-0.01
31) Terphenyl-d14	19.374	244	9610	0.513 ng	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	932	0.306 ng	# 75
3) n-Nitrosodimethylamine	3.270	42	376	0.148 ng	# 81
6) bis(2-Chloroethyl)ether	6.715	93	2448	0.304 ng	95
9) Naphthalene	10.052	128	8332	0.397 ng	99
10) Hexachlorobutadiene	10.340	225	1549	0.320 ng	# 99
12) 2-Methylnaphthalene	11.681	142	5571	0.371 ng	99
16) Acenaphthylene	13.625	152	8940	0.436 ng	100
17) Acenaphthene	13.978	154	5758	0.423 ng	99
18) Fluorene	14.983	166	7782	0.399 ng	98
20) 4,6-Dinitro-2-methylph...	15.100	198	341	0.344 ng	# 31
21) 4-Bromophenyl-phenylether	15.891	248	2147	0.365 ng	# 78
22) Hexachlorobenzene	16.003	284	2983	0.431 ng	95
23) Atrazine	16.189	200	1738	0.415 ng	96
24) Pentachlorophenol	16.351	266	2251	0.748 ng	87
25) Phenanthrene	16.735	178	13447	0.486 ng	99
26) Anthracene	16.822	178	11668	0.466 ng	98
28) Fluoranthene	18.775	202	16762	0.450 ng	99
30) Pyrene	19.142	202	17829	0.508 ng	99
32) Benzo(a)anthracene	20.920	228	15744	0.474 ng	100
33) Chrysene	20.974	228	16946	0.494 ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6876	0.524 ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	16588	0.425 ng	98
37) Benzo(b)fluoranthene	22.412	252	22222	0.608 ng	# 93
38) Benzo(k)fluoranthene	22.453	252	18080	0.503 ng	# 93
39) Benzo(a)pyrene	22.933	252	14639	0.486 ng	# 90
40) Dibenzo(a,h)anthracene	25.064	278	12290	0.399 ng	94
41) Benzo(g,h,i)perylene	25.655	276	13609	0.423 ng	98

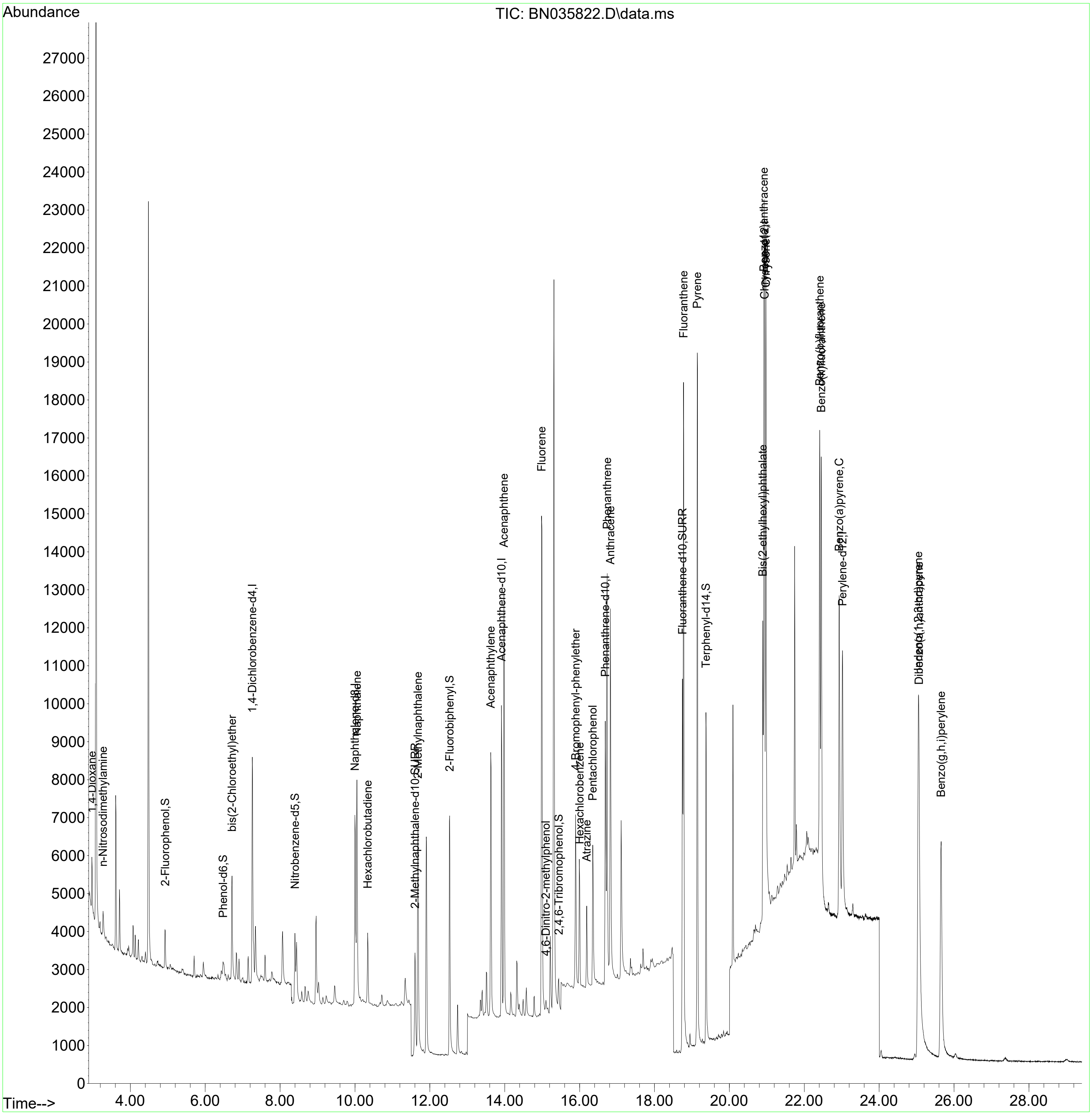
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

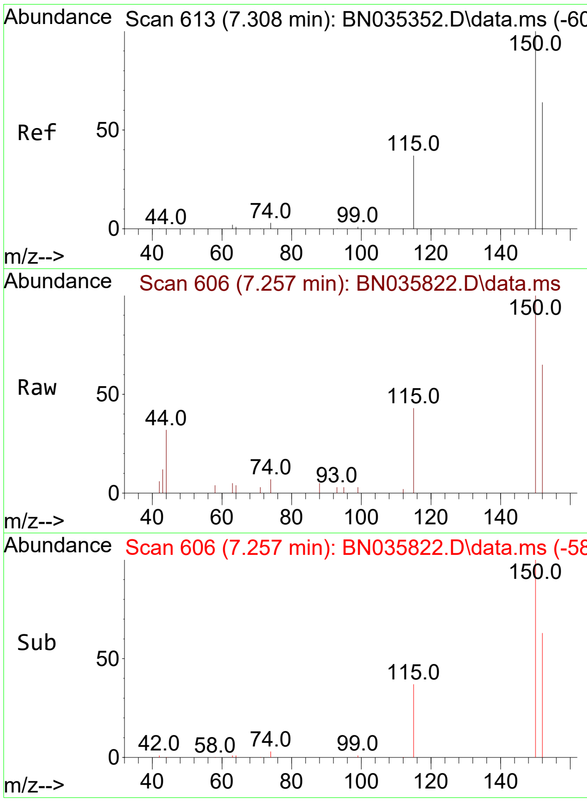
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035822.D
Acq On : 24 Dec 2024 15:31
Operator : RC/JU
Sample : P5376-09MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Quant Time: Dec 24 23:19:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



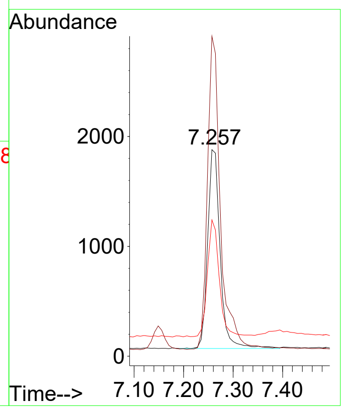
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

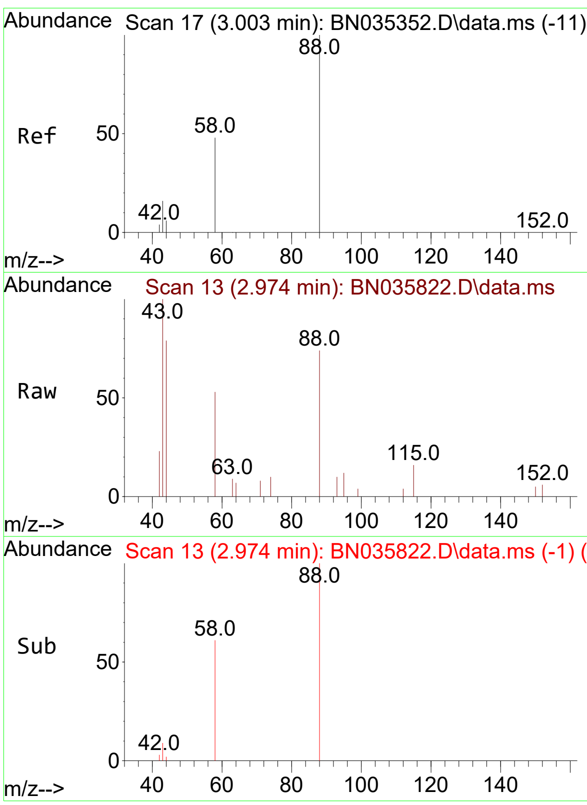


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 3187

Ion	Ratio	Lower	Upper
152	100		
150	154.9	124.0	186.0
115	66.0	49.6	74.4

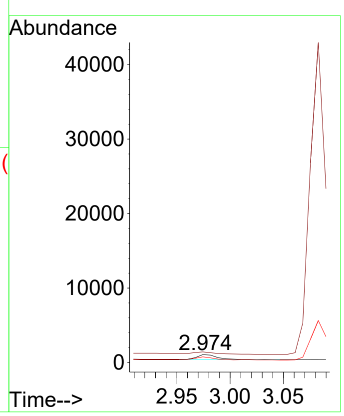


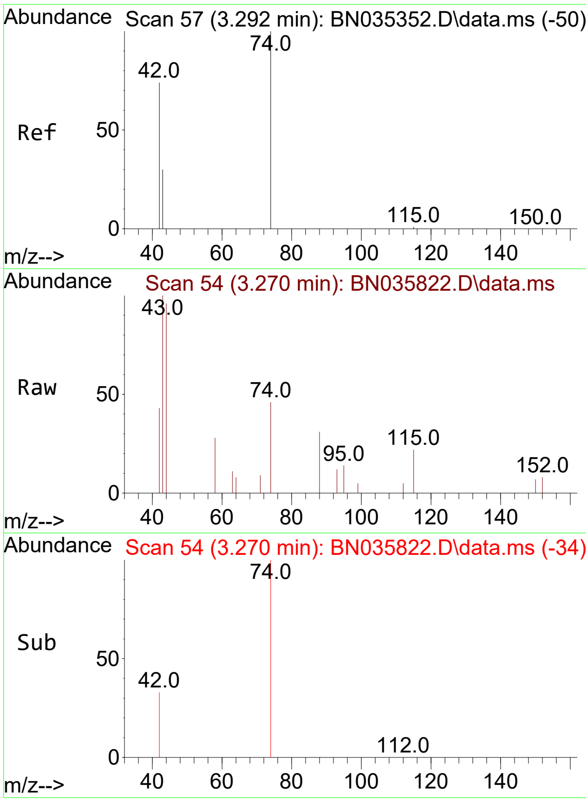


#2
1,4-Dioxane
Concen: 0.306 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 88 Resp: 932

Ion	Ratio	Lower	Upper
88	100		
43	0.0	17.2	25.8#
58	67.9	44.5	66.7#





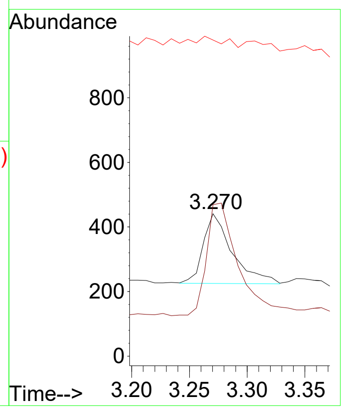
#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.270 min Scan# 5

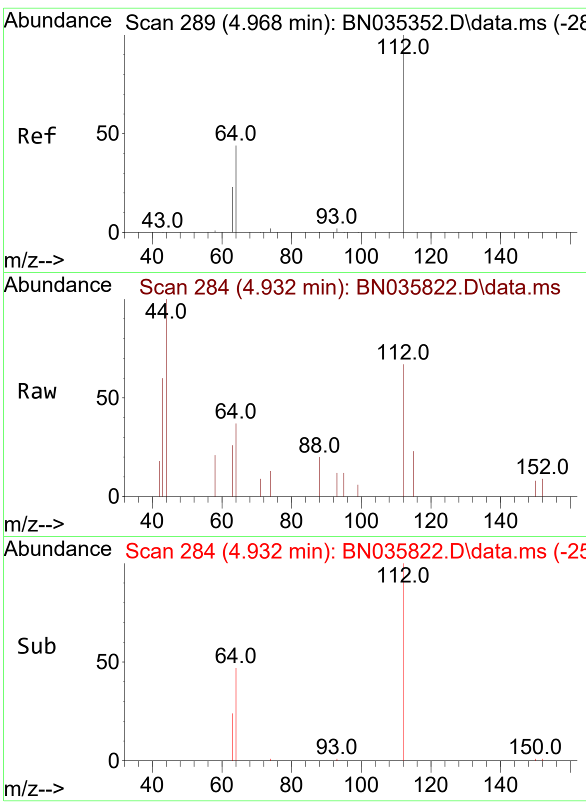
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 42 Resp: 376

Ion	Ratio	Lower	Upper
42	100		
74	180.6	124.9	187.3
44	0.0	2.2	3.4#

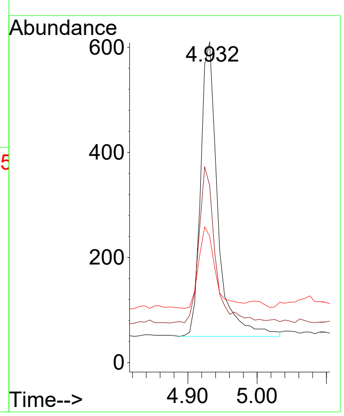


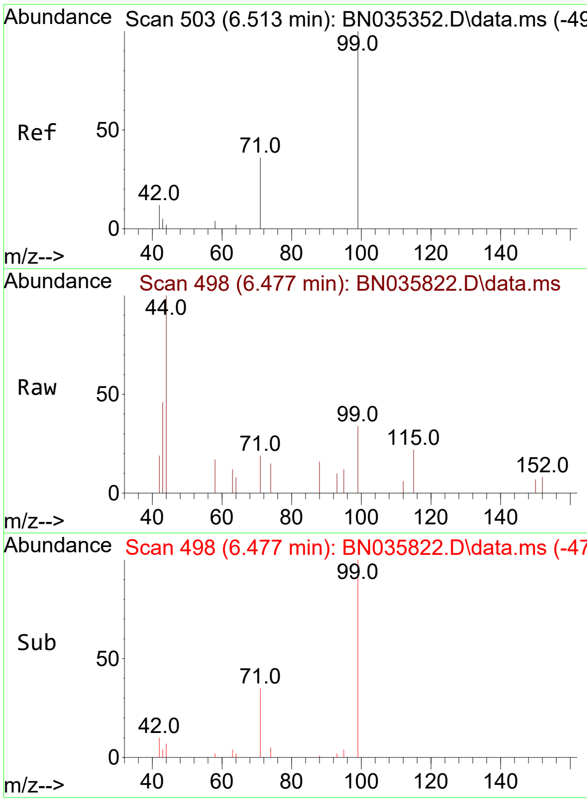


#4
2-Fluorophenol
Concen: 0.121 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:112 Resp: 967

Ion	Ratio	Lower	Upper
112	100		
64	52.6	39.8	59.8
63	27.0	21.0	31.6



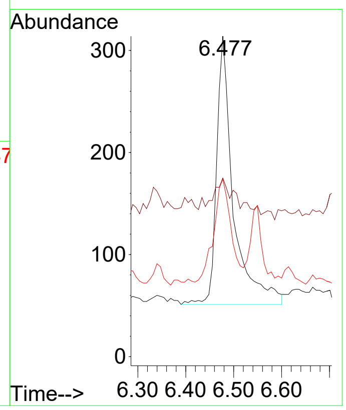


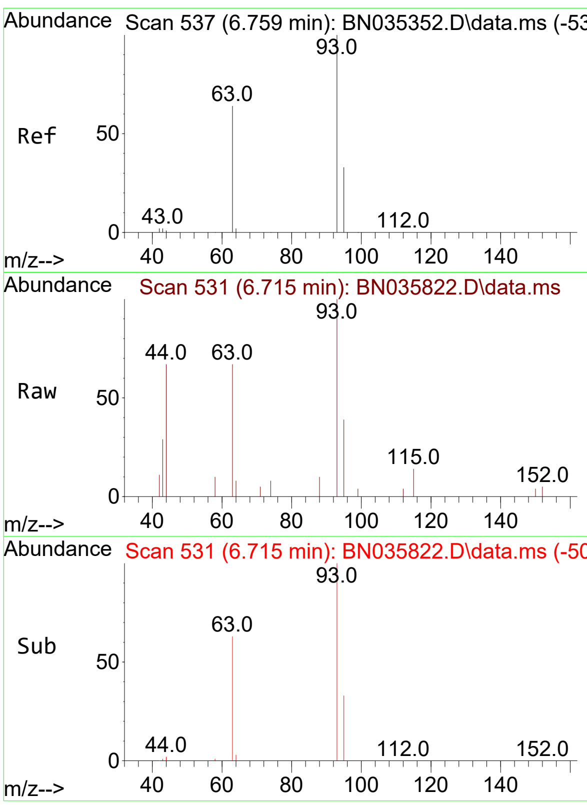
#5
Phenol-d6
Concen: 0.067 ng
RT: 6.477 min Scan# 49
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion: 99 Resp: 640

Ion	Ratio	Lower	Upper
99	100		
42	16.3	11.4	17.2
71	42.2	29.3	43.9

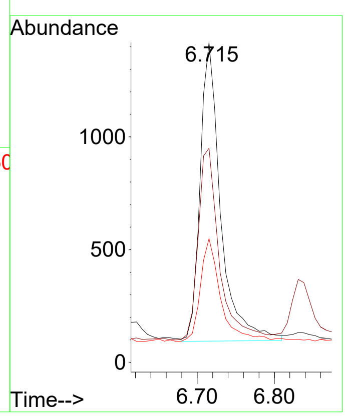


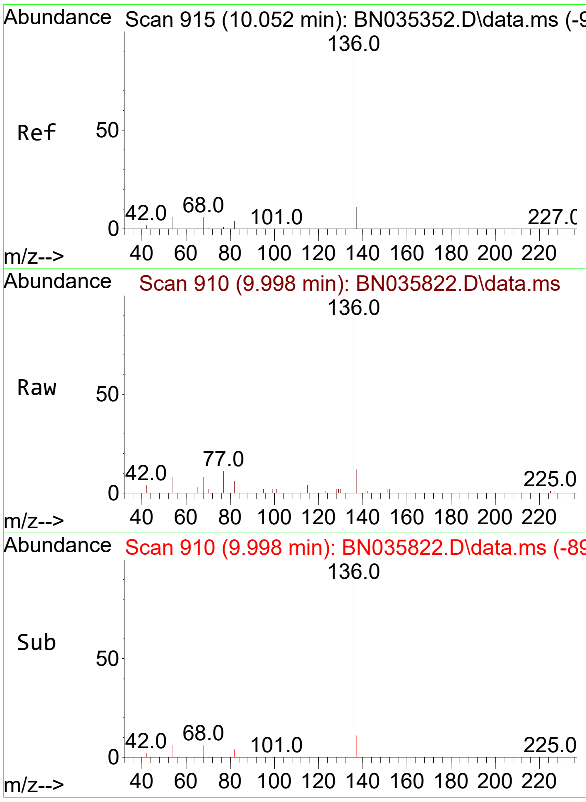


#6
bis(2-Chloroethyl)ether
Concen: 0.304 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 93 Resp: 2448

Ion	Ratio	Lower	Upper
93	100		
63	66.0	50.4	75.6
95	35.5	25.7	38.5





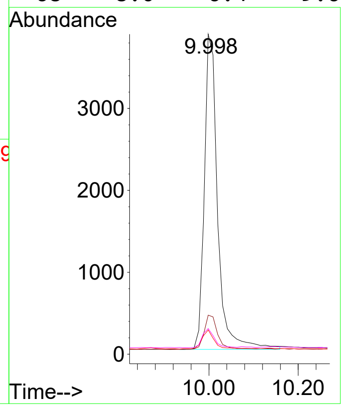
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91

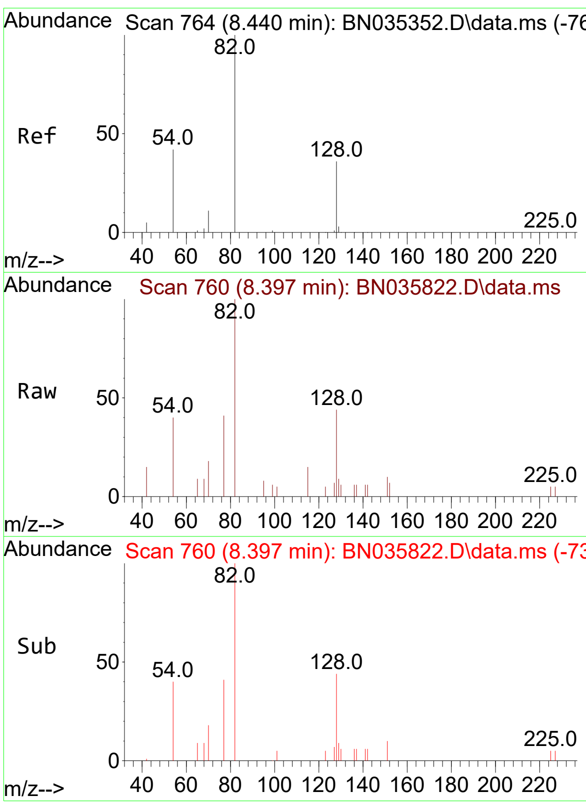
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:136 Resp: 7953

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

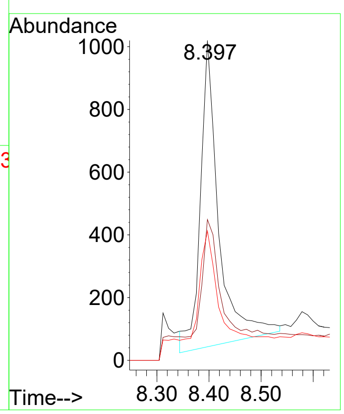


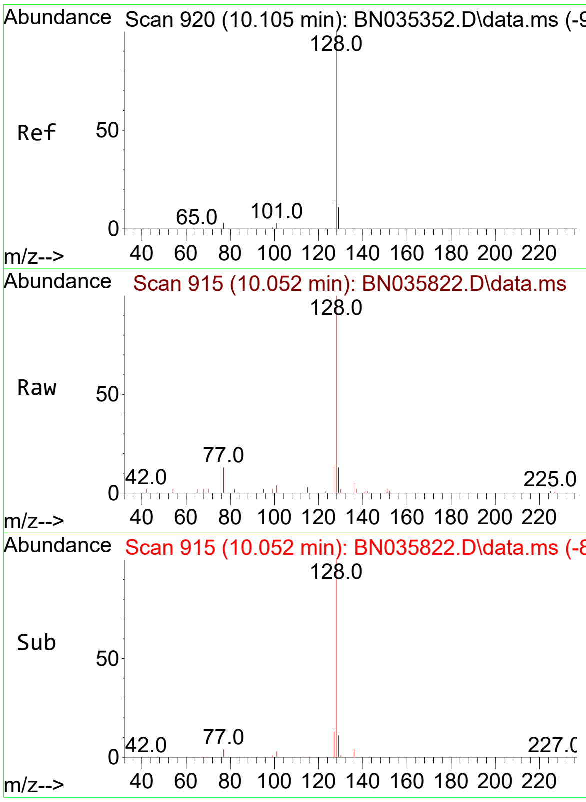


#8
Nitrobenzene-d5
Concen: 0.490 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion: 82 Resp: 2382

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.4	50.0
54	40.5	36.7	55.1





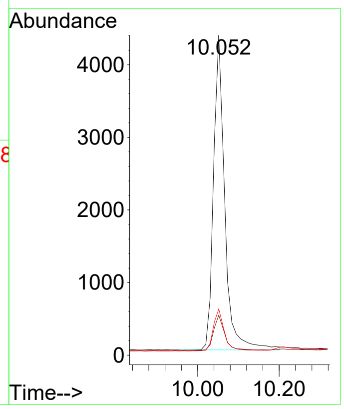
#9
Naphthalene
Concen: 0.397 ng
RT: 10.052 min Scan# 9

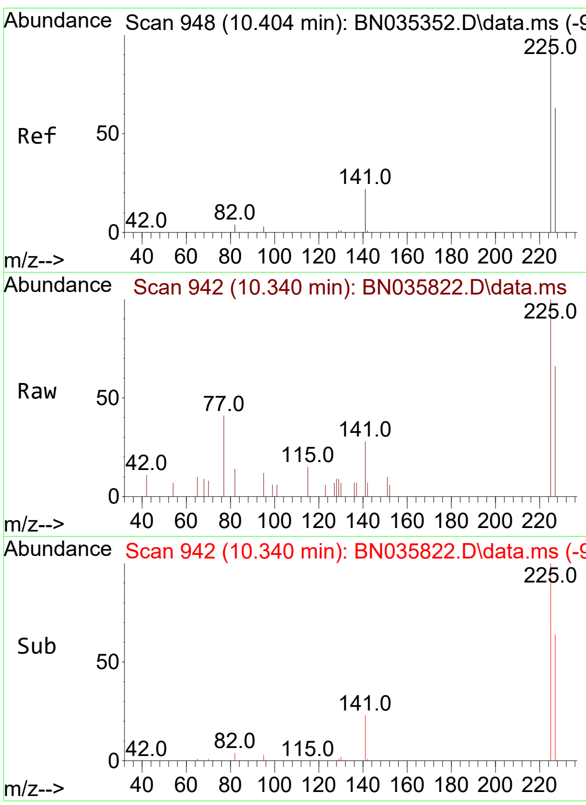
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:128 Resp: 8332

Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.8	14.6
127	14.4	11.4	17.2

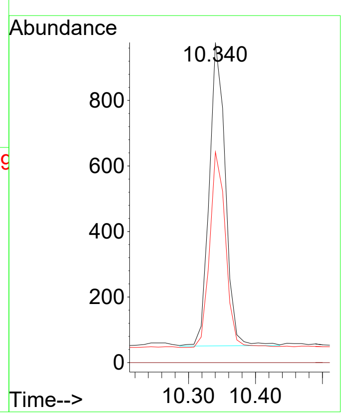


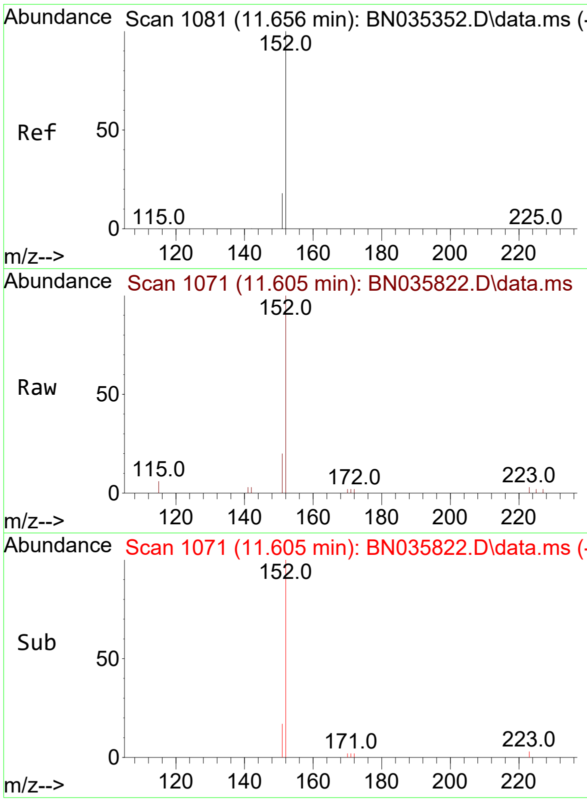


#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:225 Resp: 1549

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	51.3	76.9



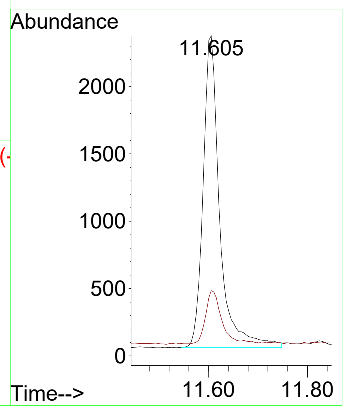


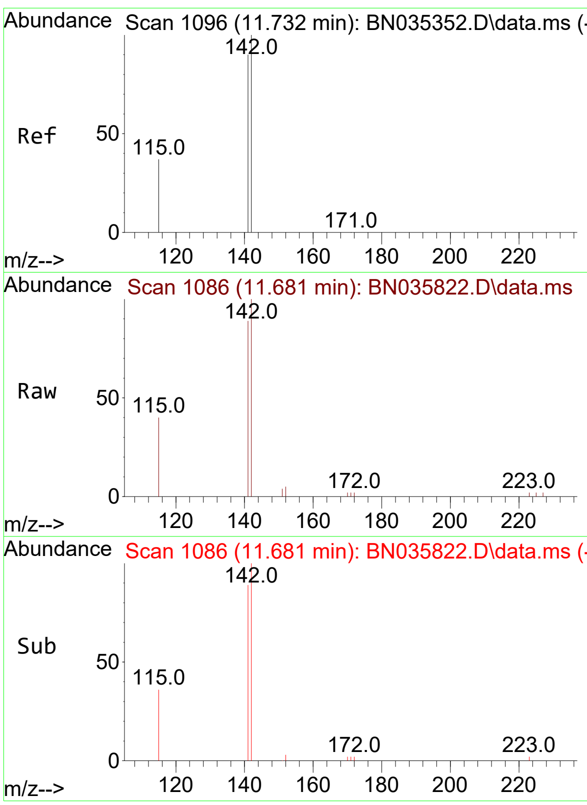
#11
2-Methylnaphthalene-d10
Concen: 0.433 ng
RT: 11.605 min Scan# 10
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:152 Resp: 5387

Ion	Ratio	Lower	Upper
152	100		
151	16.6	16.6	25.0#

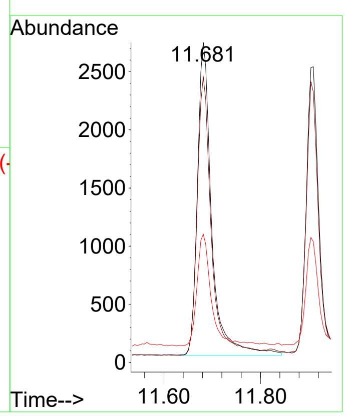


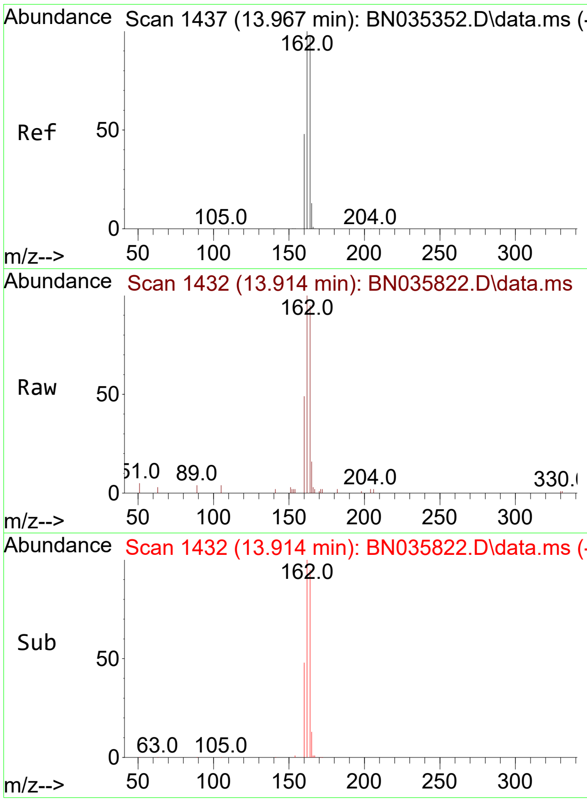


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:142 Resp: 5571

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.1	31.4	47.0



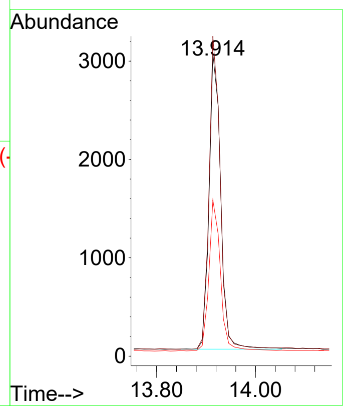


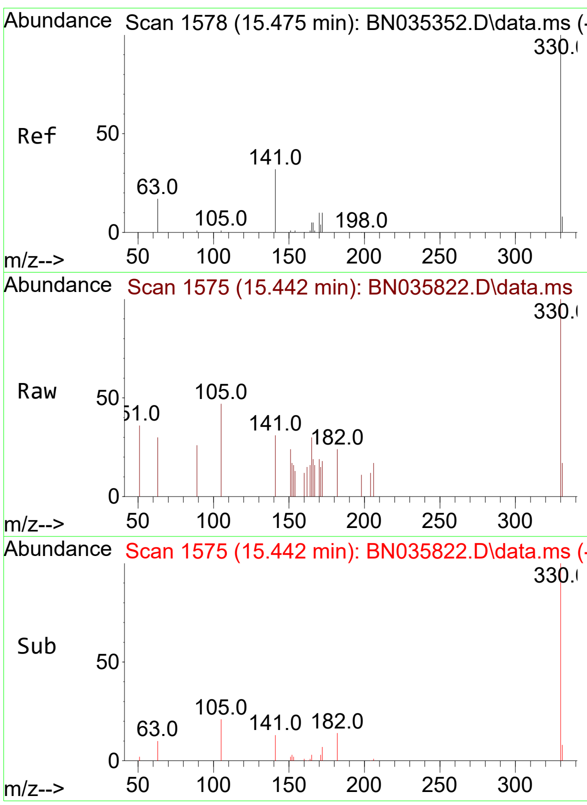
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:164 Resp: 4887

Ion	Ratio	Lower	Upper
164	100		
162	105.6	82.2	123.2
160	51.5	40.1	60.1

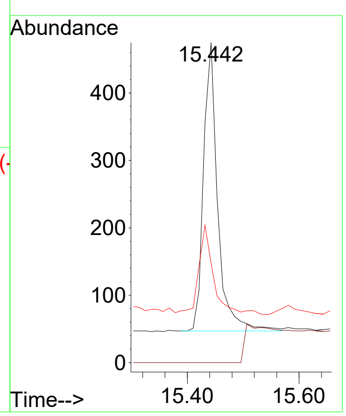


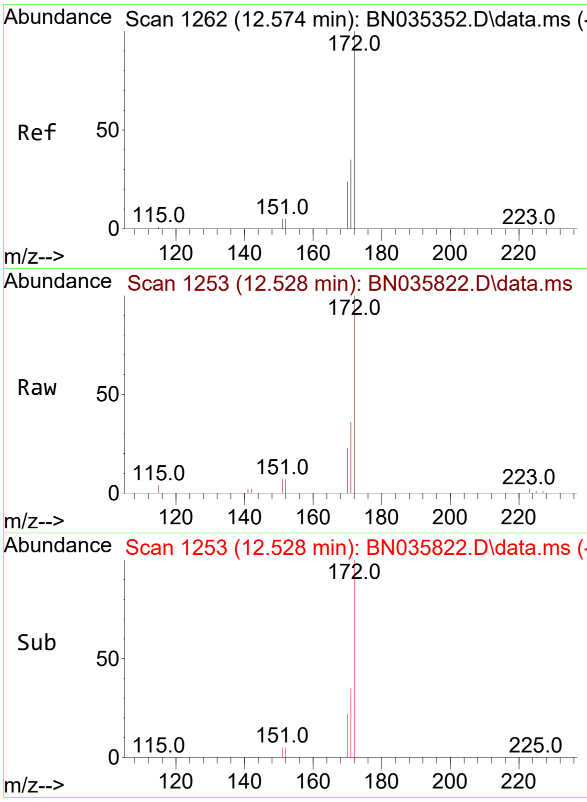


#14
2,4,6-Tribromophenol
Concen: 0.227 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:330 Resp: 787

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.5	26.6	40.0



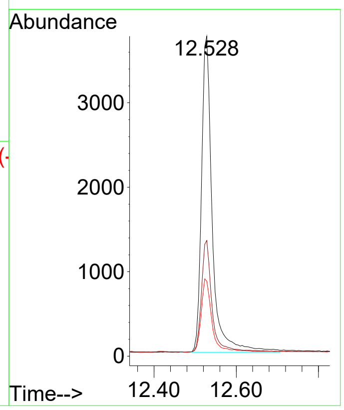


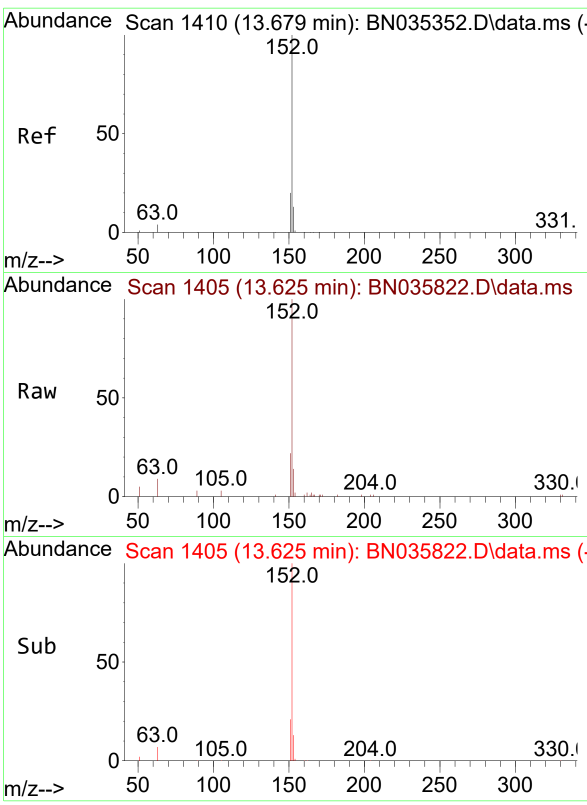
#15
2-Fluorobiphenyl
Concen: 0.371 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:172 Resp: 6851

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.5	19.8	29.8

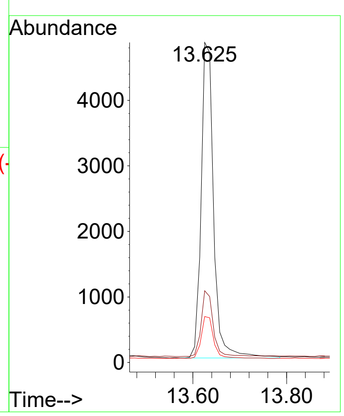


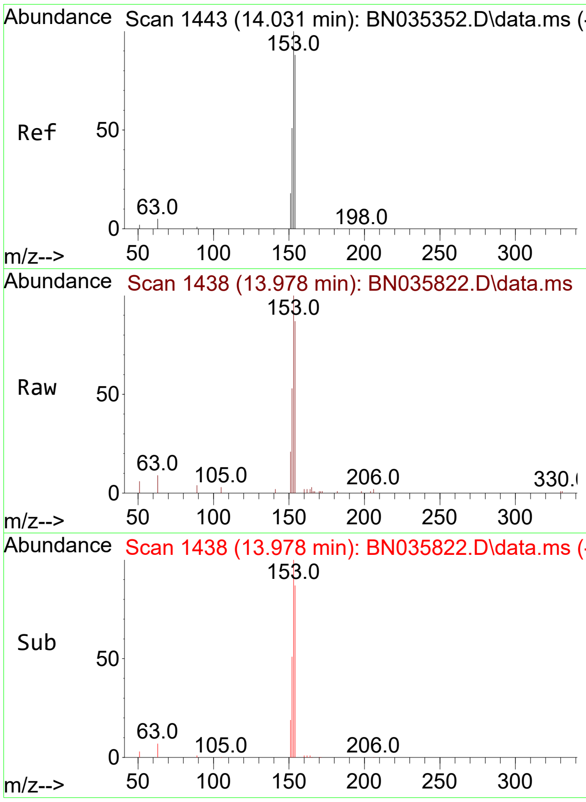


#16
Acenaphthylene
Concen: 0.436 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:152 Resp: 8940

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.4	10.4	15.6



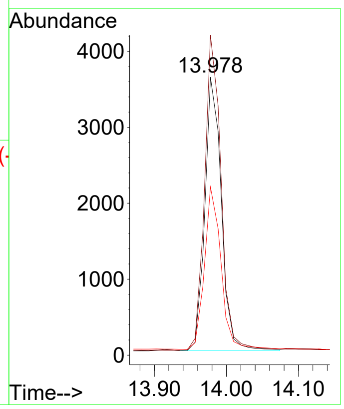


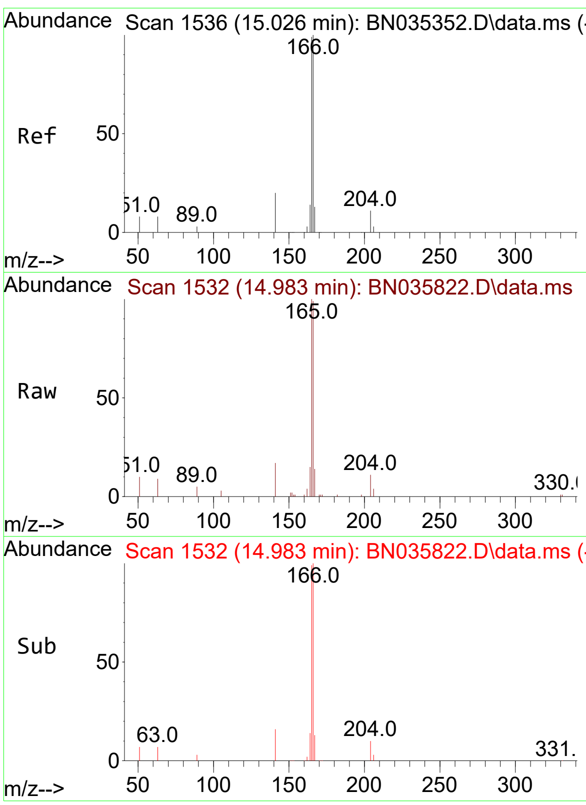
#17
Acenaphthene
Concen: 0.423 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:154 Resp: 5758

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	58.9	49.0	73.6

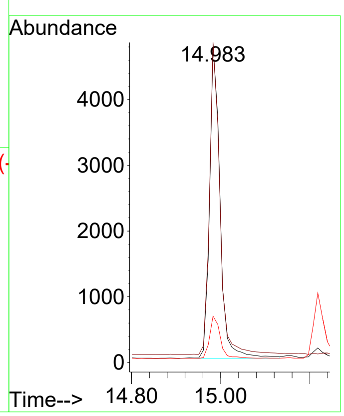


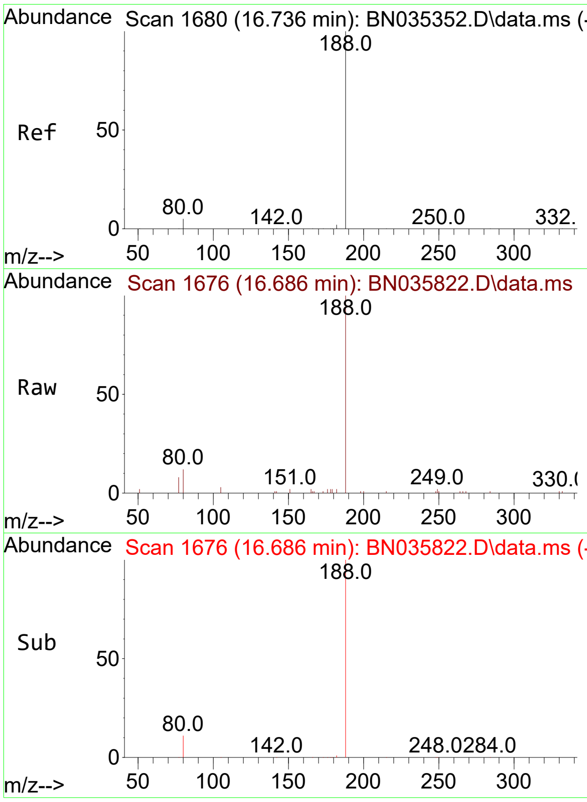


#18
Fluorene
Concen: 0.399 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:166 Resp: 7782

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.9	10.8	16.2





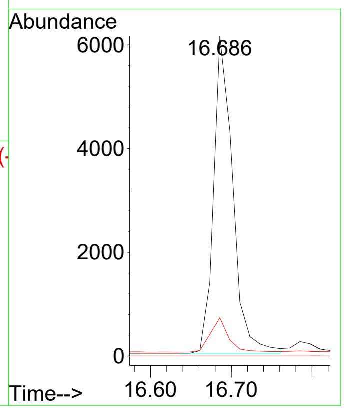
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min   Scan# 1(

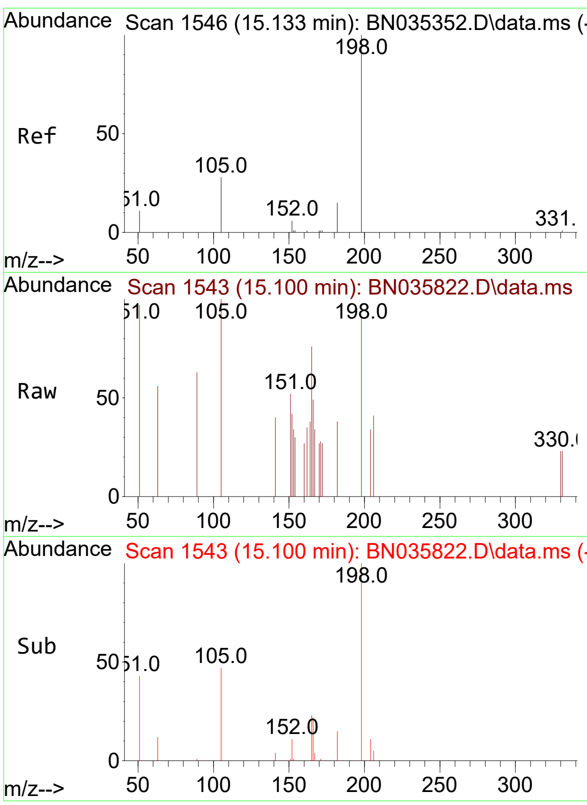
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T.   -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024   15:31

Tgt Ion:188 Resp: 10068

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

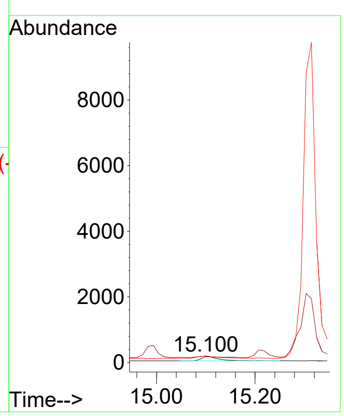


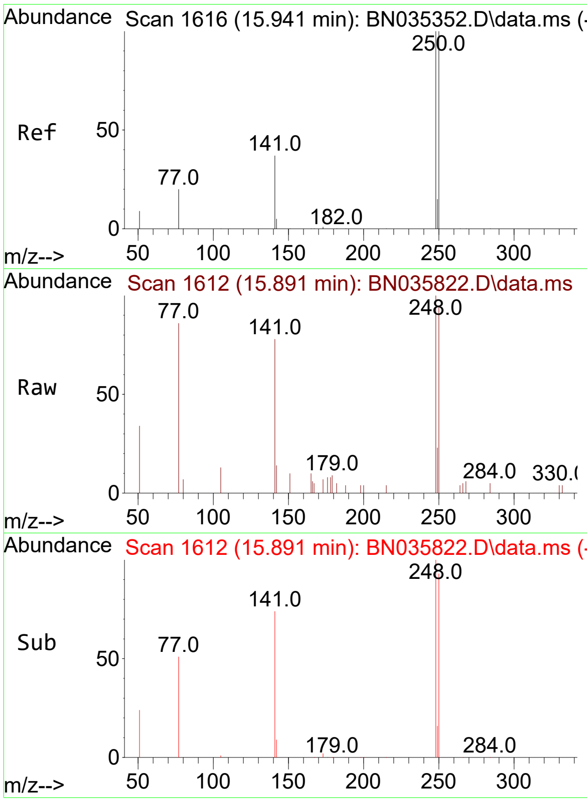


#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.100 min   Scan# 1543
Delta R.T.   -0.022 min
Lab File: BN035822.D
Acq: 24 Dec 2024   15:31

Tgt Ion:198 Resp: 341

Ion	Ratio	Lower	Upper
198	100		
51	106.6	46.5	69.7#
105	109.9	45.3	67.9#



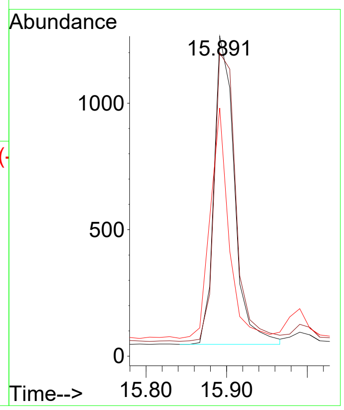


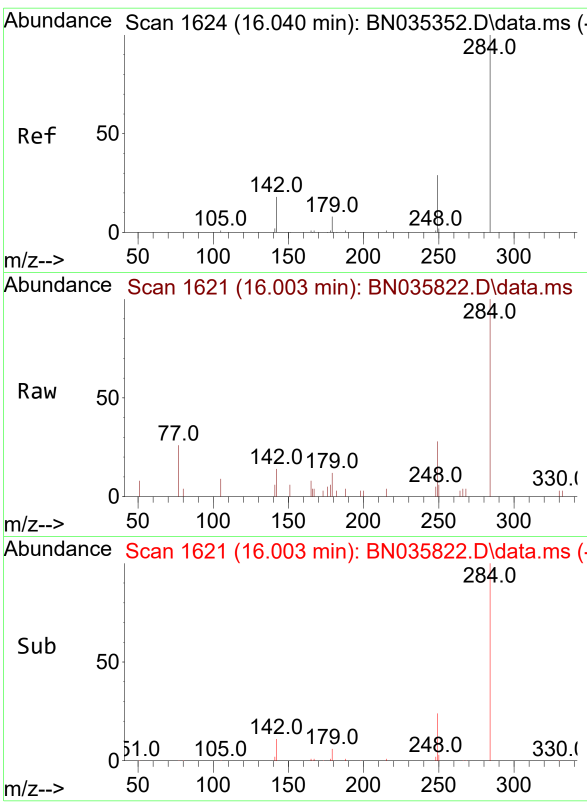
#21
4-Bromophenyl-phenylether
Concen: 0.365 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:248 Resp: 2147

Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.6	120.8
141	77.5	31.5	47.3#

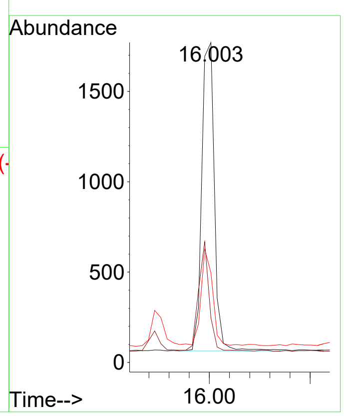


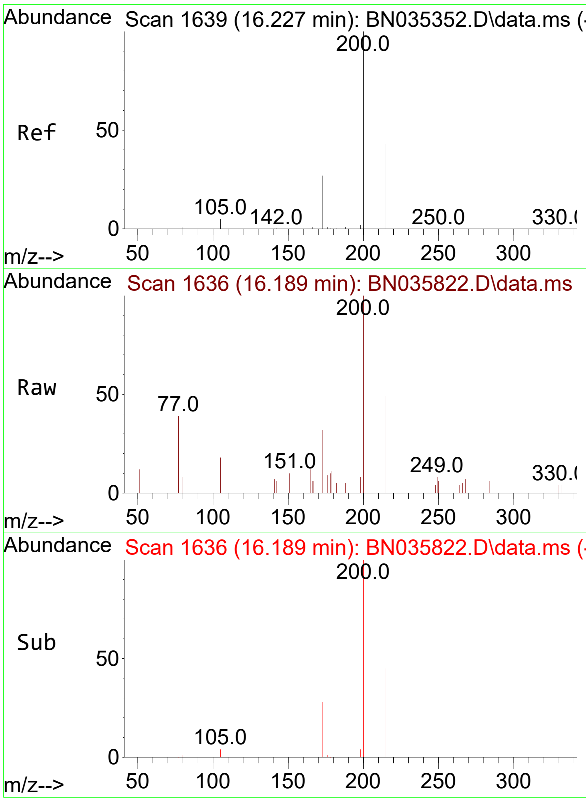


#22
Hexachlorobenzene
Concen: 0.431 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:284 Resp: 2983

Ion	Ratio	Lower	Upper
284	100		
142	30.0	26.7	40.1
249	28.6	24.6	36.8



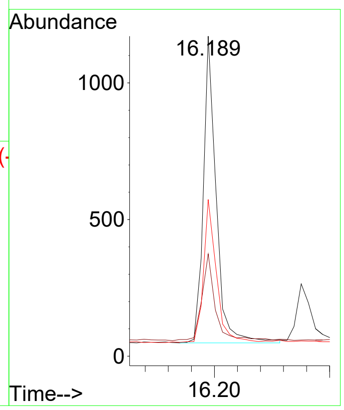


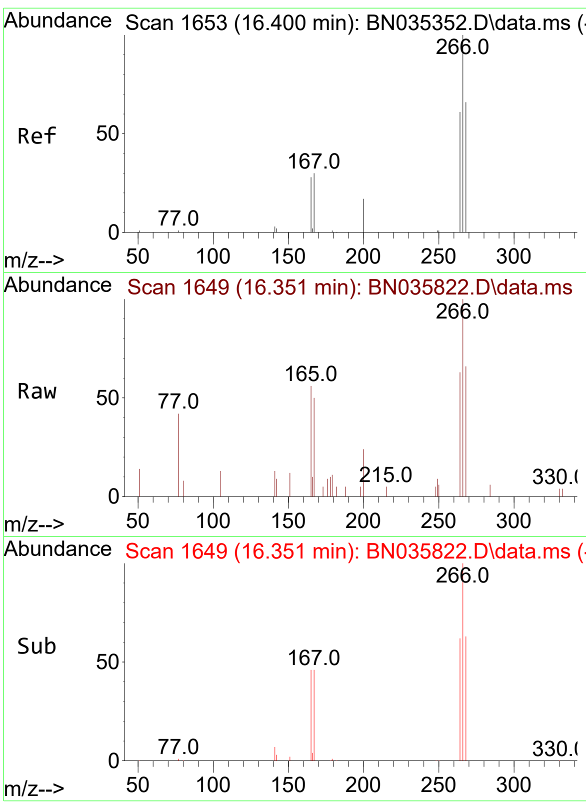
#23
Atrazine
Concen: 0.415 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:200 Resp: 1738

Ion	Ratio	Lower	Upper
200	100		
173	31.9	24.1	36.1
215	48.9	36.9	55.3

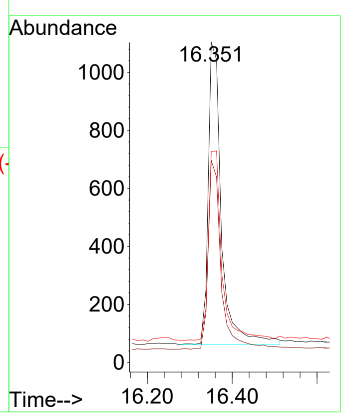


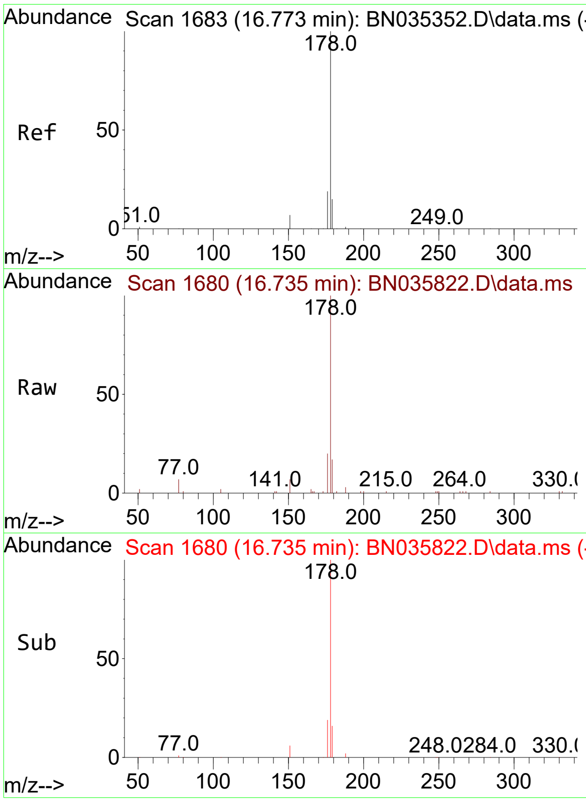


#24
Pentachlorophenol
Concen: 0.748 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.025 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:266 Resp: 2251

Ion	Ratio	Lower	Upper
266	100		
264	61.1	42.3	63.5
268	64.2	43.3	64.9





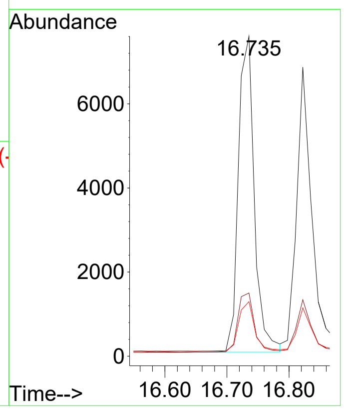
#25
Phenanthrene
Concen: 0.486 ng
RT: 16.735 min Scan# 1(

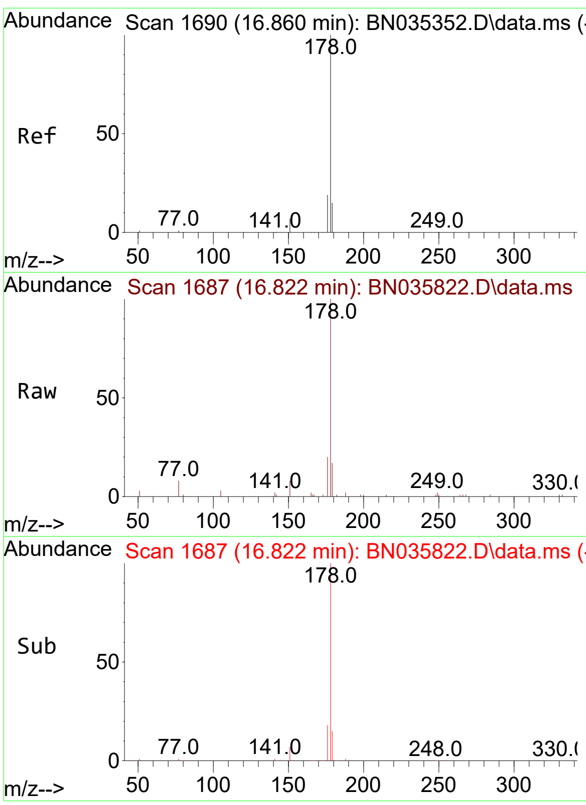
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 13447

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.6	12.3	18.5

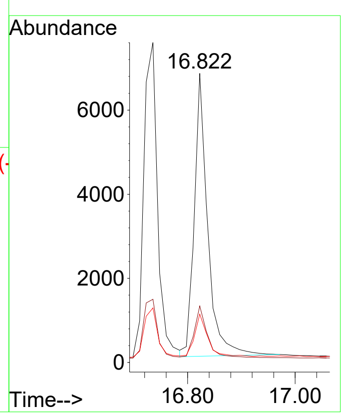


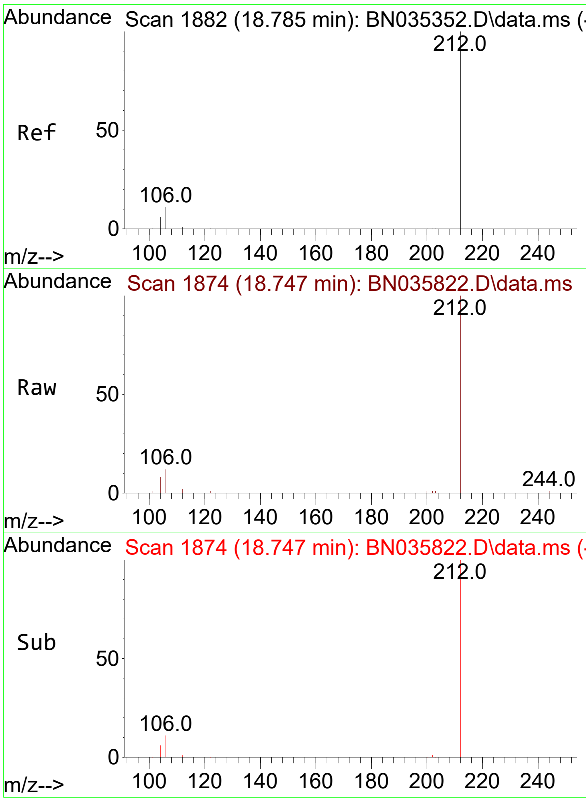


#26
Anthracene
Concen: 0.466 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:178 Resp: 11668

Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	14.9	12.6	18.8



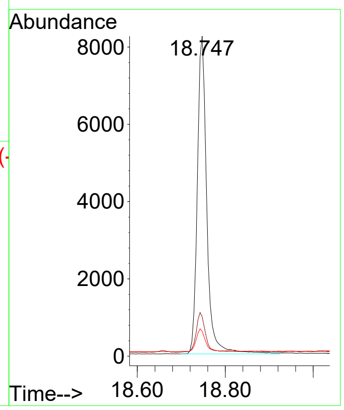


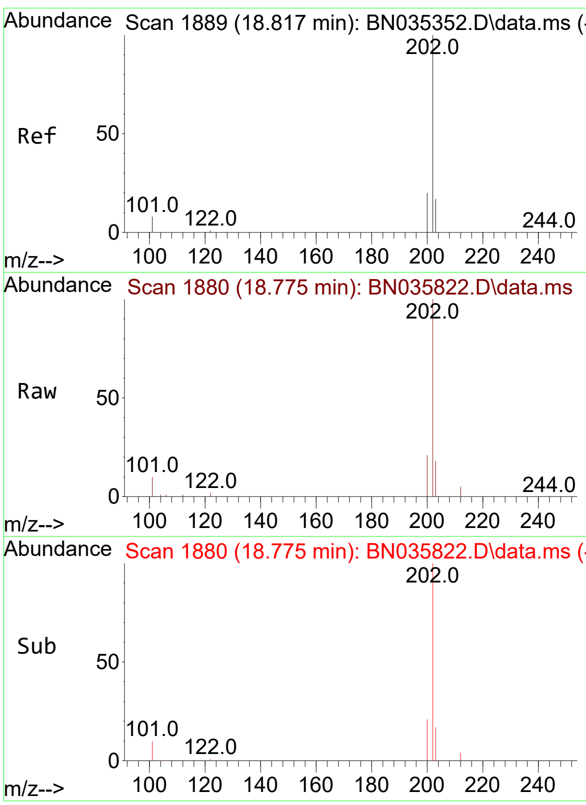
#27
Fluoranthene-d10
Concen: 0.431 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:212 Resp: 12293

Ion	Ratio	Lower	Upper
212	100		
106	12.4	9.2	13.8
104	6.8	5.3	7.9

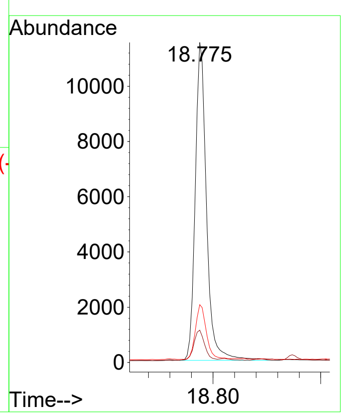


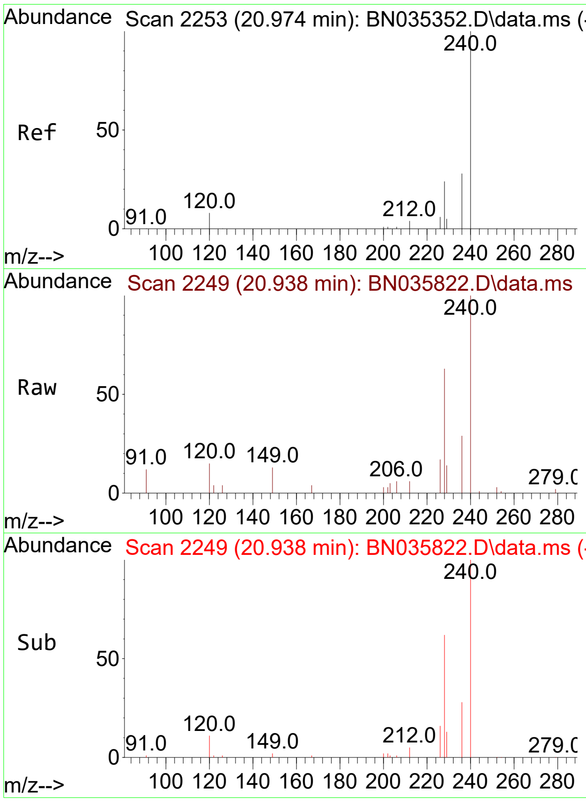


#28
Fluoranthene
Concen: 0.450 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 16762

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5



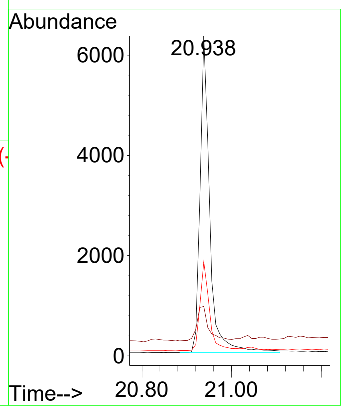


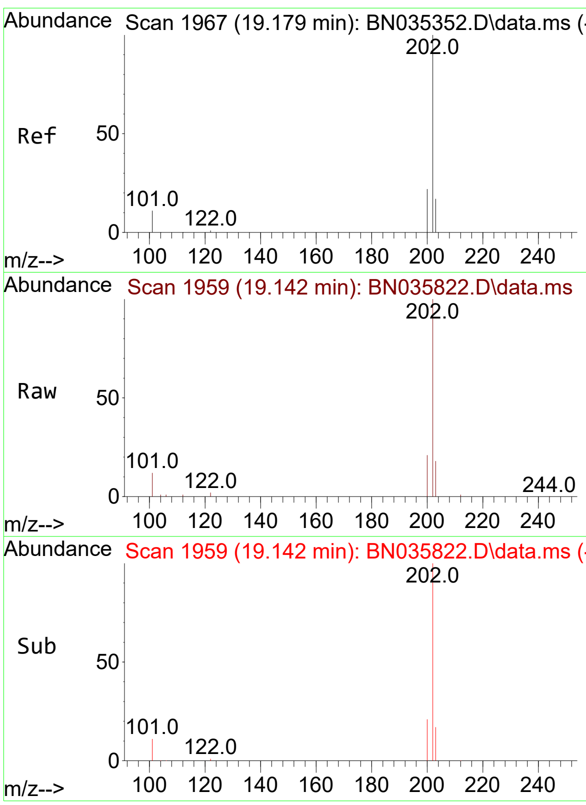
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:240 Resp: 9501

Ion	Ratio	Lower	Upper
240	100		
120	15.4	7.9	11.9#
236	29.5	22.9	34.3

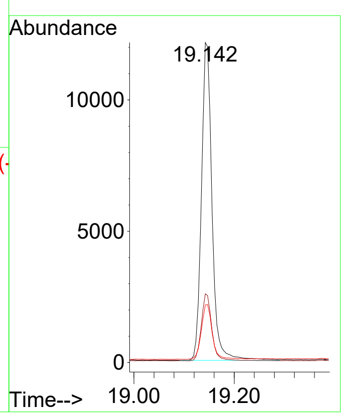


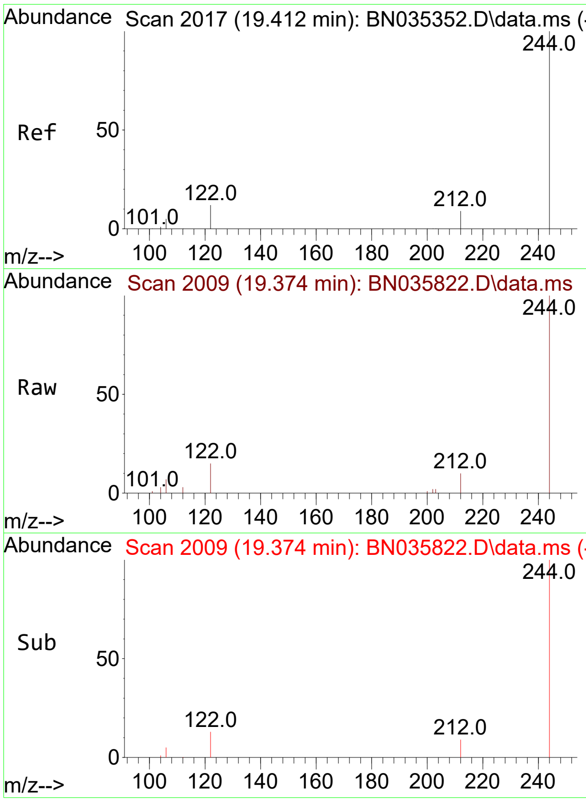


#30
Pyrene
Concen: 0.508 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:202 Resp: 17829

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.7	14.3	21.5



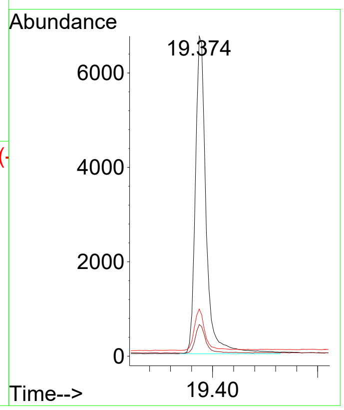


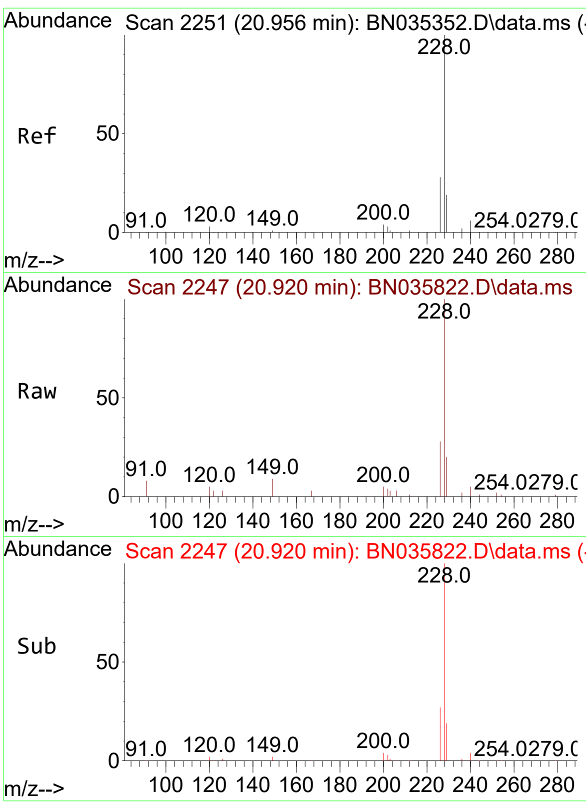
#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.374 min Scan# 2(
Delta R.T. -0.014 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:244 Resp: 9610

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	14.7	10.3	15.5

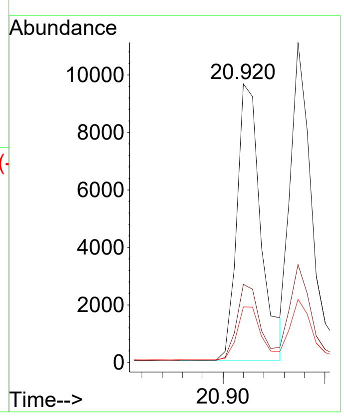


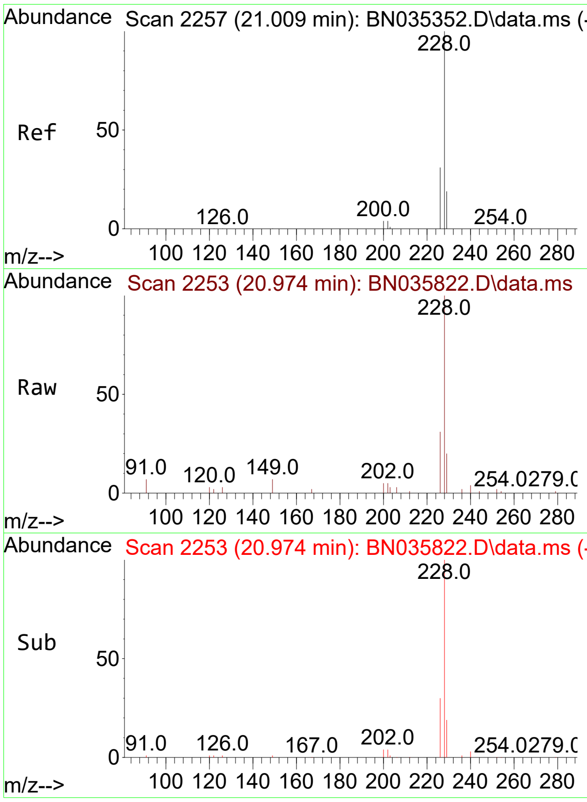


#32
Benzo(a)anthracene
Concen: 0.474 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:228 Resp: 15744

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8



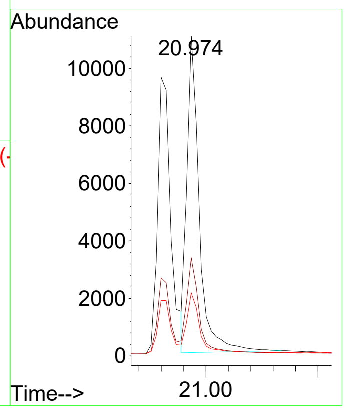


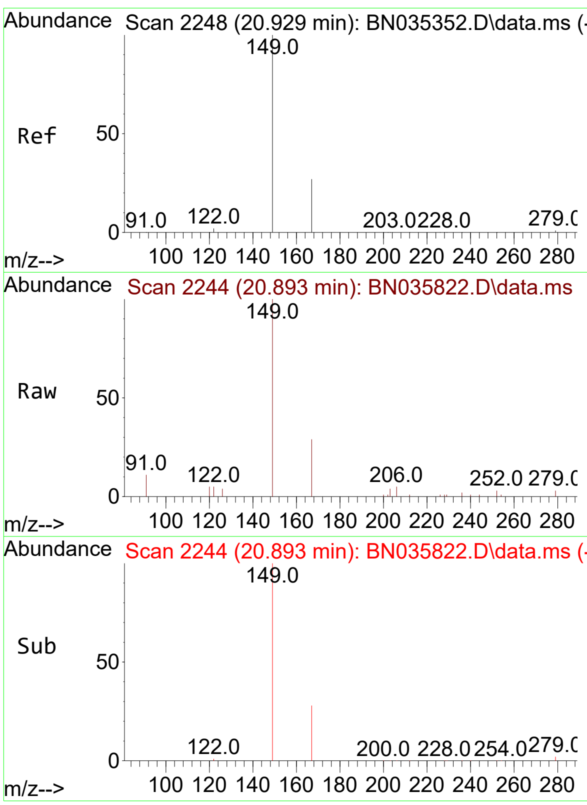
#33
Chrysene
Concen: 0.494 ng
RT: 20.974 min Scan# 2
Delta R.T.   -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:228 Resp: 16946

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	19.7	15.9	23.9

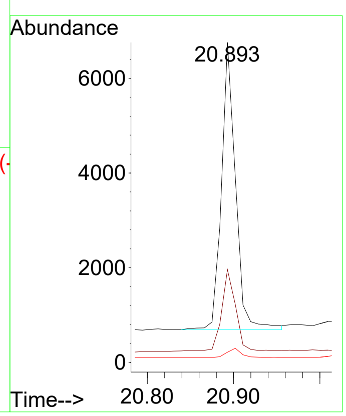


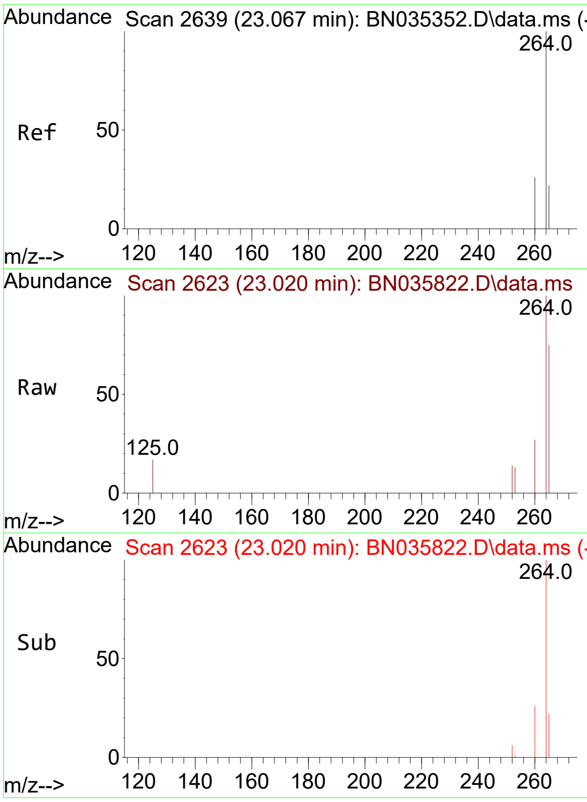


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.524 ng
RT: 20.893 min Scan# 2244
Delta R.T.   -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:149 Resp: 6876

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.2	2.7	4.1





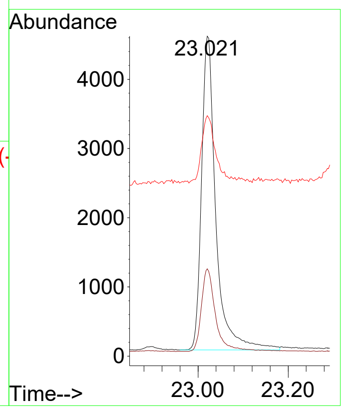
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.020 min Scan# 2

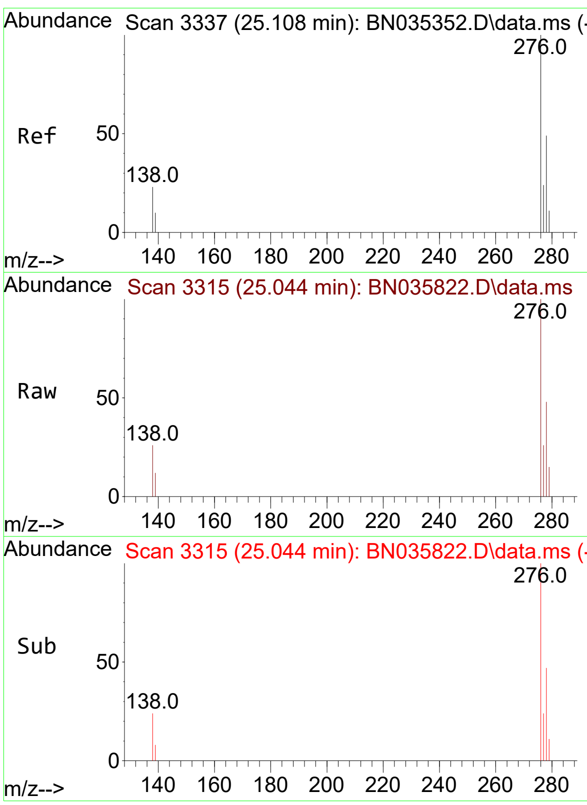
Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Delta R.T. -0.021 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:264 Resp: 9990

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	75.1	40.2	60.4#

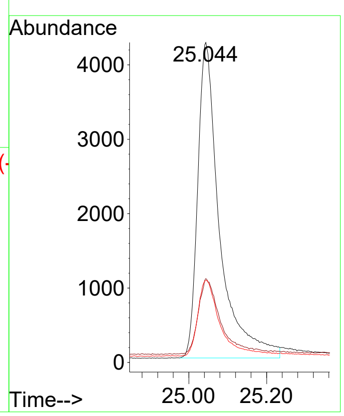


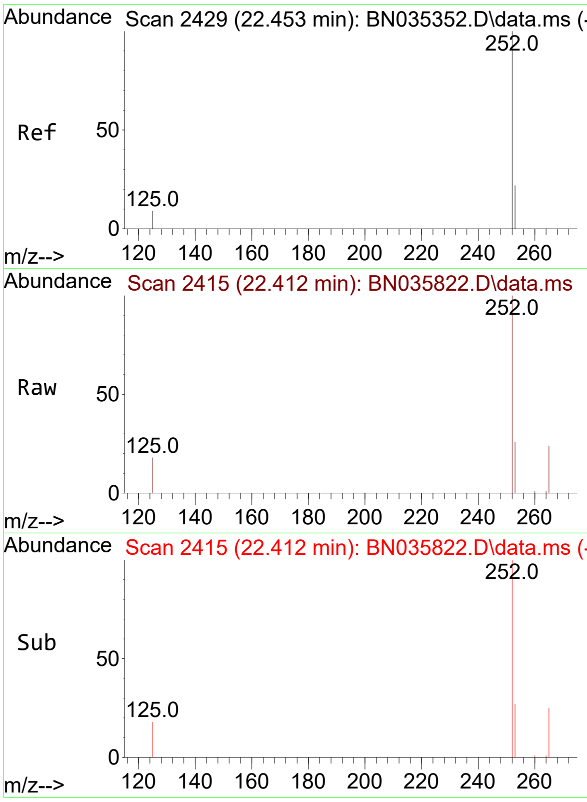


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:276 Resp: 16588

Ion	Ratio	Lower	Upper
276	100		
138	23.3	19.4	29.0
277	23.8	19.8	29.6



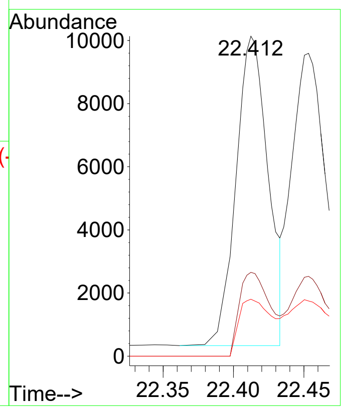


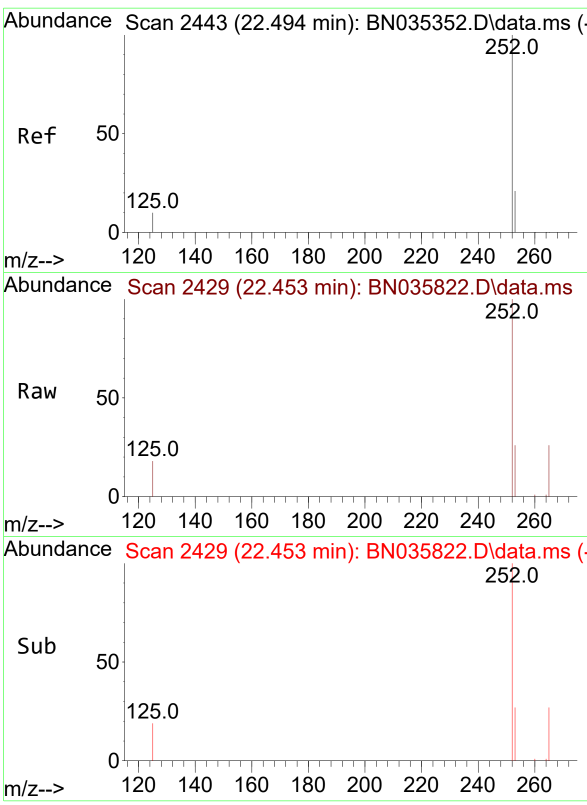
#37
Benzo(b)fluoranthene
Concen: 0.608 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 22222

Ion	Ratio	Lower	Upper
252	100		
253	26.2	19.6	29.4
125	17.8	9.6	14.4#

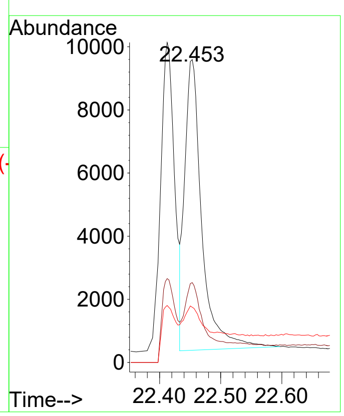


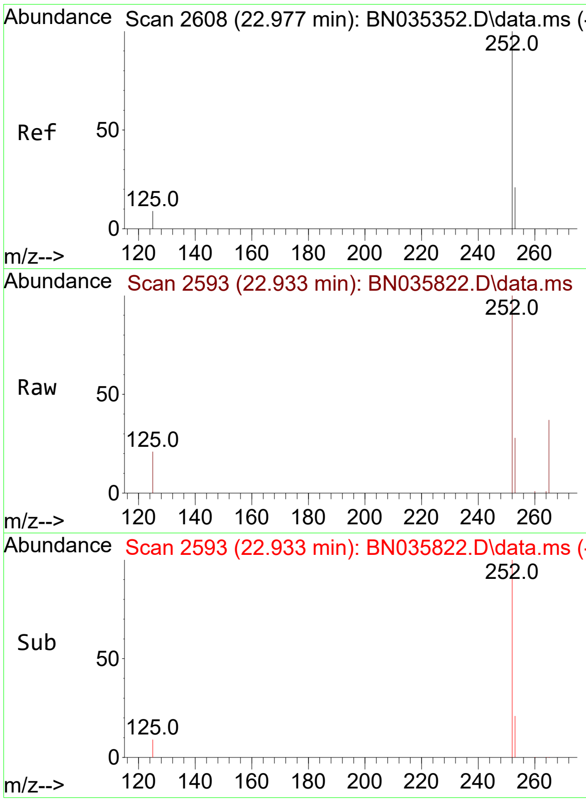


#38
Benzo(k)fluoranthene
Concen: 0.503 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:252 Resp: 18080

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	18.2	10.2	15.4#



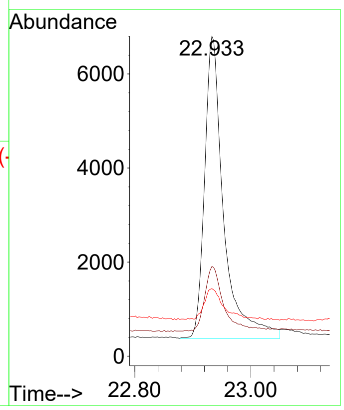


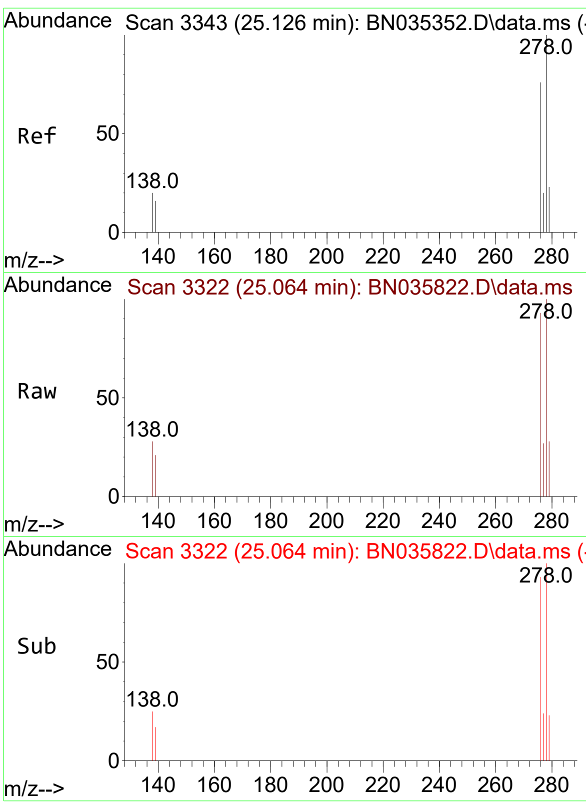
#39
Benzo(a)pyrene
Concen: 0.486 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:252 Resp: 14639

Ion	Ratio	Lower	Upper
252	100		
253	28.1	20.2	30.4
125	21.1	10.9	16.3#

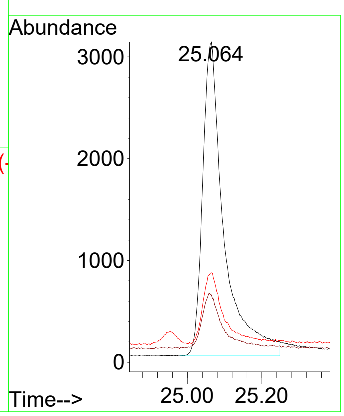


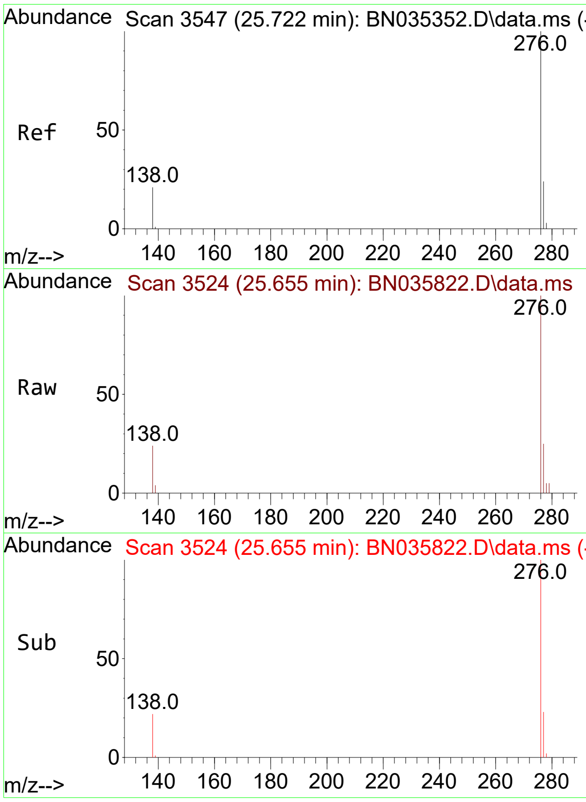


#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.018 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Tgt Ion:278 Resp: 12290

Ion	Ratio	Lower	Upper
278	100		
139	21.1	14.2	21.4
279	28.0	20.5	30.7



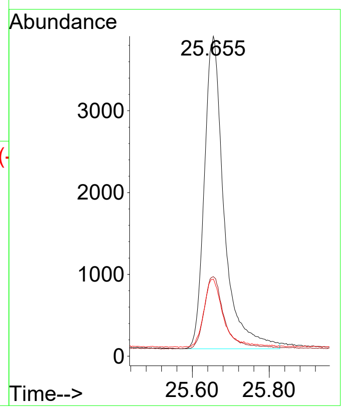


#41
Benzo(g,h,i)perylene
Concen: 0.423 ng
RT: 25.655 min Scan# 3
Delta R.T. -0.024 min
Lab File: BN035822.D
Acq: 24 Dec 2024 15:31

Instrument :
BNA_N
ClientSampleId :
RW10-MW01S-20241218MSD

Tgt Ion:276 Resp: 13609

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	24.1	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On : 24 Dec 2024 19:05
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

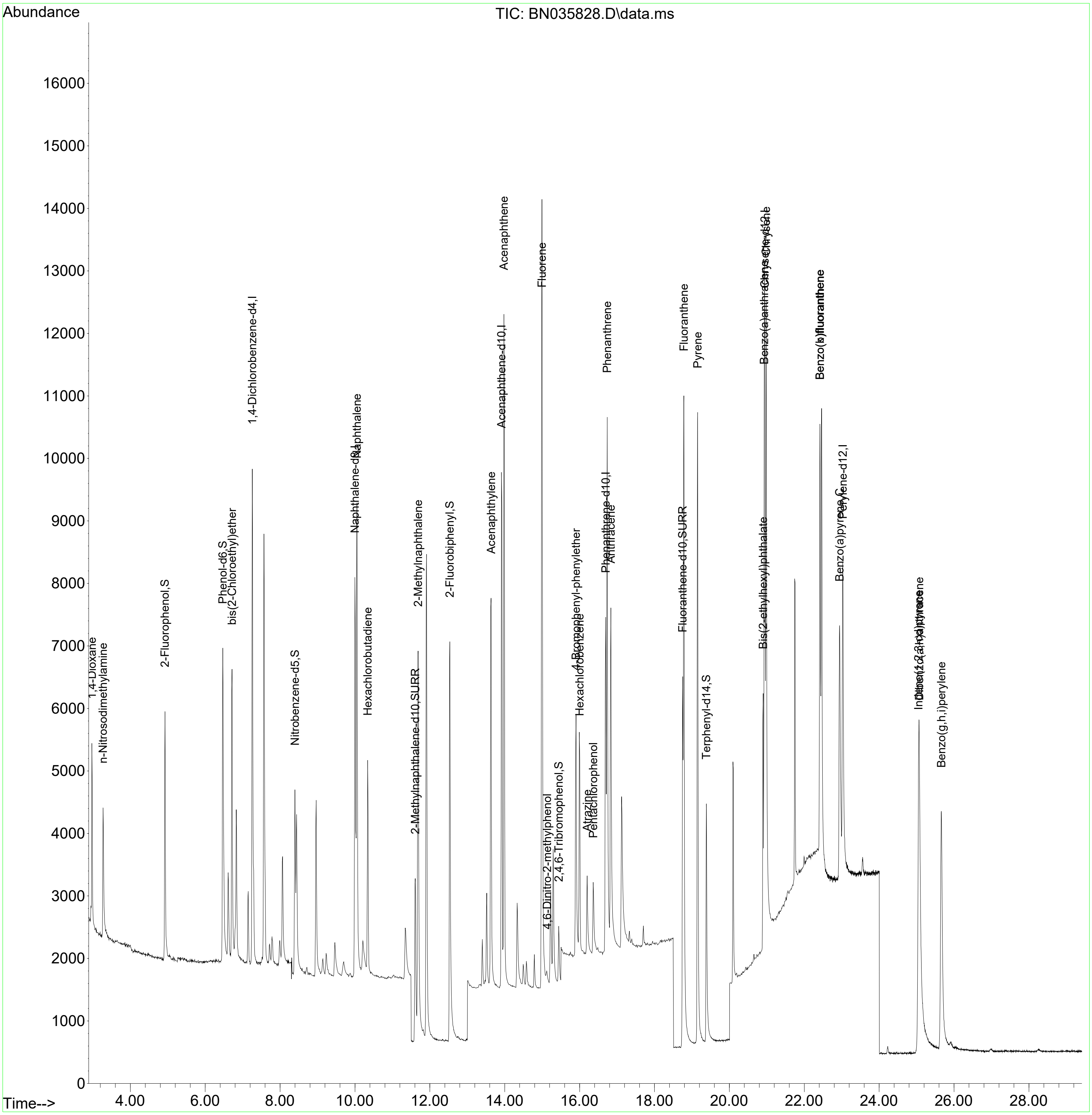
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	4008	0.400 ng	-0.02
7) Naphthalene-d8	9.998	136	9840	0.400 ng	-0.02
13) Acenaphthene-d10	13.914	164	5373	0.400 ng	-0.02
19) Phenanthrene-d10	16.698	188	9905	0.400 ng	# 0.00
29) Chrysene-d12	20.947	240	7447	0.400 ng	# 0.00
35) Perylene-d12	23.029	264	7426	0.400 ng	#-0.01
System Monitoring Compounds					
4) 2-Fluorophenol	4.924	112	3589	0.358 ng	-0.01
5) Phenol-d6	6.470	99	6110	0.506 ng	-0.02
8) Nitrobenzene-d5	8.397	82	3407	0.567 ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	5246	0.341 ng	-0.01
14) 2,4,6-Tribromophenol	15.442	330	1040	0.273 ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	8409	0.414 ng	-0.01
27) Fluoranthene-d10	18.752	212	9222	0.328 ng	0.00
31) Terphenyl-d14	19.384	244	6024	0.410 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	2007	0.524 ng	99
3) n-Nitrosodimethylamine	3.270	42	1227	0.384 ng	# 82
6) bis(2-Chloroethyl)ether	6.715	93	4129	0.407 ng	99
9) Naphthalene	10.052	128	10772	0.415 ng	99
10) Hexachlorobutadiene	10.340	225	2784	0.465 ng	# 99
12) 2-Methylnaphthalene	11.686	142	6505	0.350 ng	99
16) Acenaphthylene	13.636	152	8453	0.375 ng	99
17) Acenaphthene	13.978	154	5821	0.389 ng	100
18) Fluorene	14.993	166	7311	0.341 ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	239	0.245 ng	# 24
21) 4-Bromophenyl-phenylether	15.904	248	2287	0.395 ng	# 91
22) Hexachlorobenzene	16.003	284	3296	0.484 ng	99
23) Atrazine	16.202	200	1504	0.365 ng	95
24) Pentachlorophenol	16.363	266	898	0.303 ng	89
25) Phenanthrene	16.735	178	10097	0.371 ng	100
26) Anthracene	16.835	178	8619	0.350 ng	100
28) Fluoranthene	18.784	202	11973	0.326 ng	99
30) Pyrene	19.151	202	12223	0.445 ng	100
32) Benzo(a)anthracene	20.929	228	8203	0.315 ng	99
33) Chrysene	20.982	228	11628	0.433 ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4135	0.402 ng	99
36) Indeno(1,2,3-cd)pyrene	25.052	276	10298	0.355 ng	# 83
37) Benzo(b)fluoranthene	22.418	252	17240	0.635 ng	# 95
38) Benzo(k)fluoranthene	22.418	252	17240	0.645 ng	95
39) Benzo(a)pyrene	22.944	252	8337	0.373 ng	# 87
40) Dibenzo(a,h)anthracene	25.073	278	7409	0.323 ng	# 90
41) Benzo(g,h,i)perylene	25.663	276	9651	0.403 ng	98

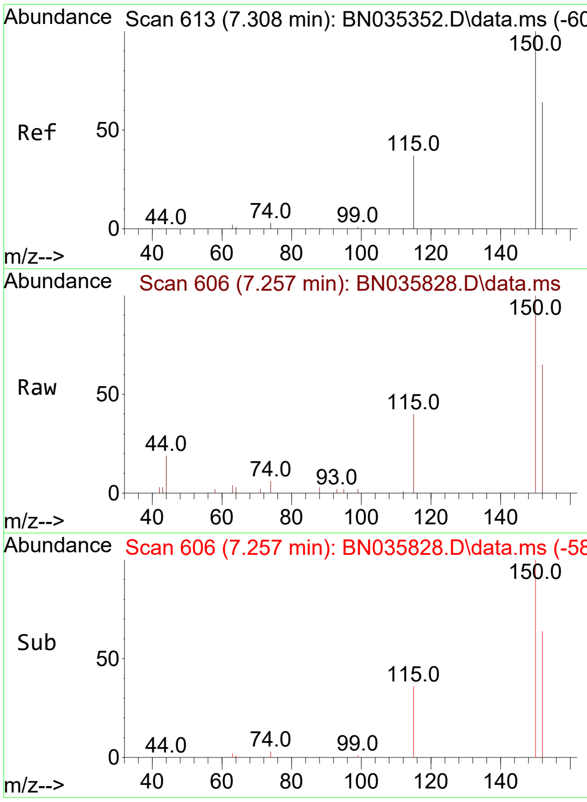
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035828.D
Acq On   : 24 Dec 2024 19:05
Operator : RC/JU
Sample   : SSTDCCC0.4
Misc   :
ALS Vial : 20   Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 23:54:42 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration





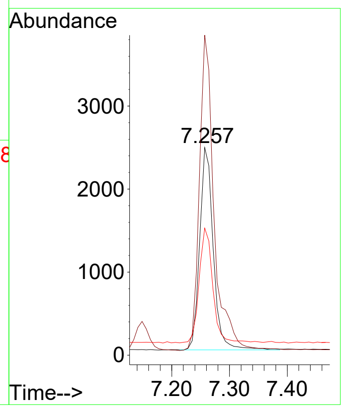
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6

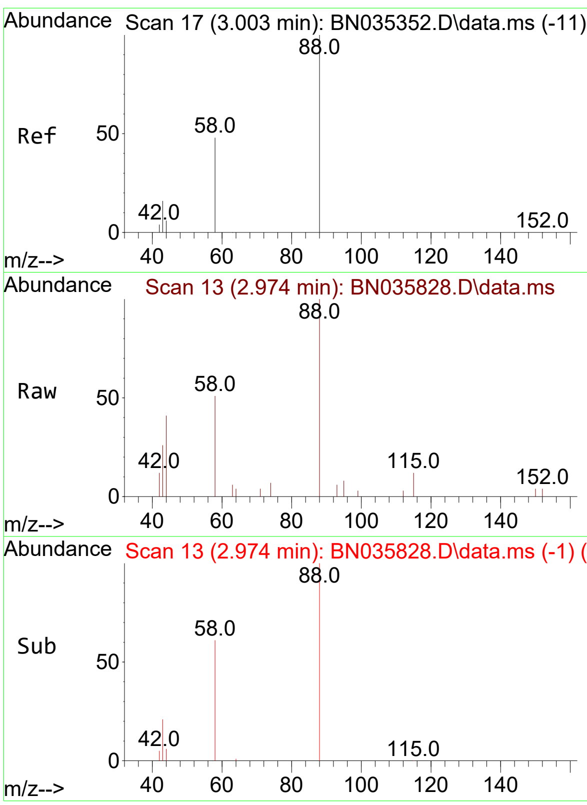
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4008

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.0	186.0
115	61.2	49.6	74.4

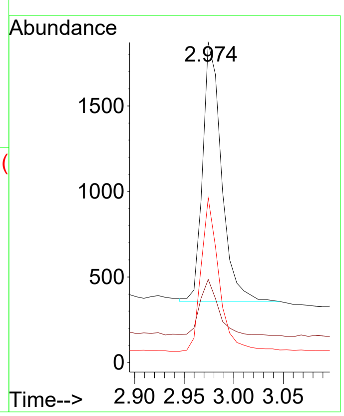


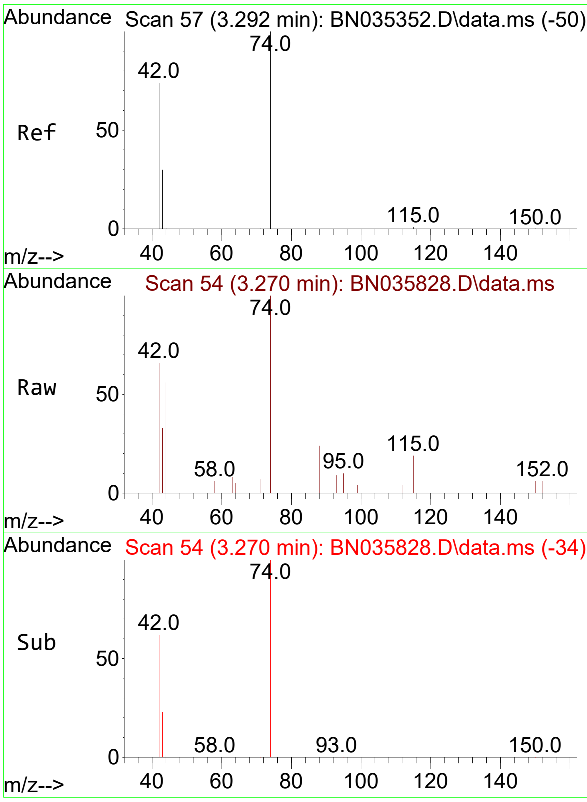


#2
1,4-Dioxane
Concen: 0.524 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 88 Resp: 2007

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	56.9	44.5	66.7



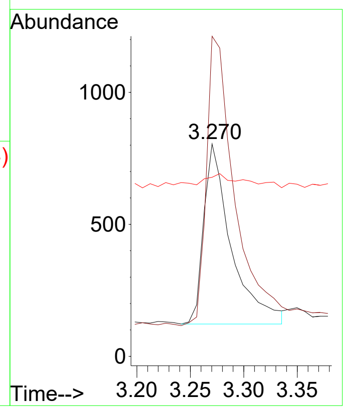


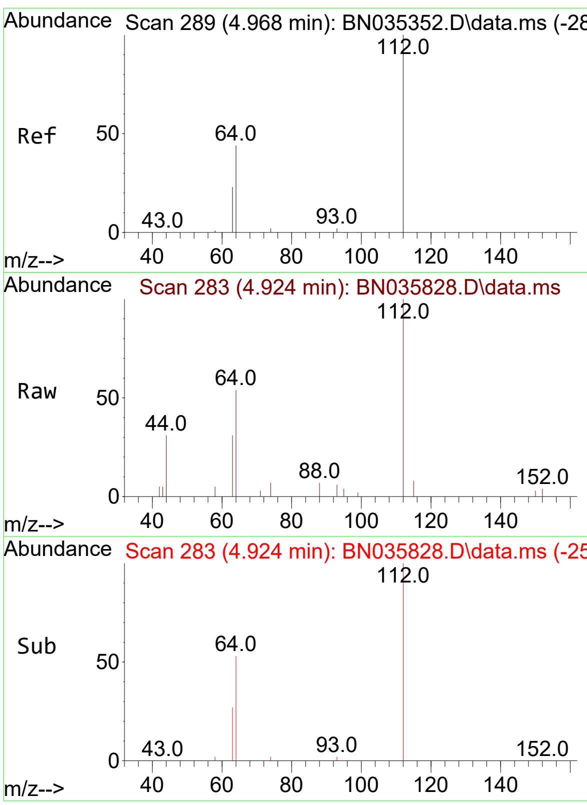
#3
n-Nitrosodimethylamine
Concen: 0.384 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1227

Ion	Ratio	Lower	Upper
42	100		
74	178.7	124.9	187.3
44	14.2	2.2	3.4#

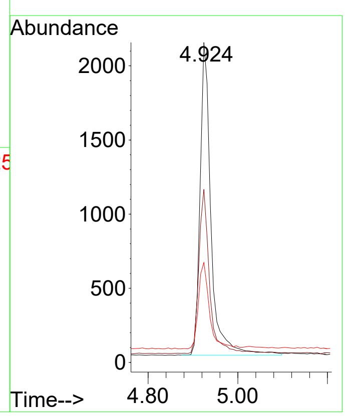


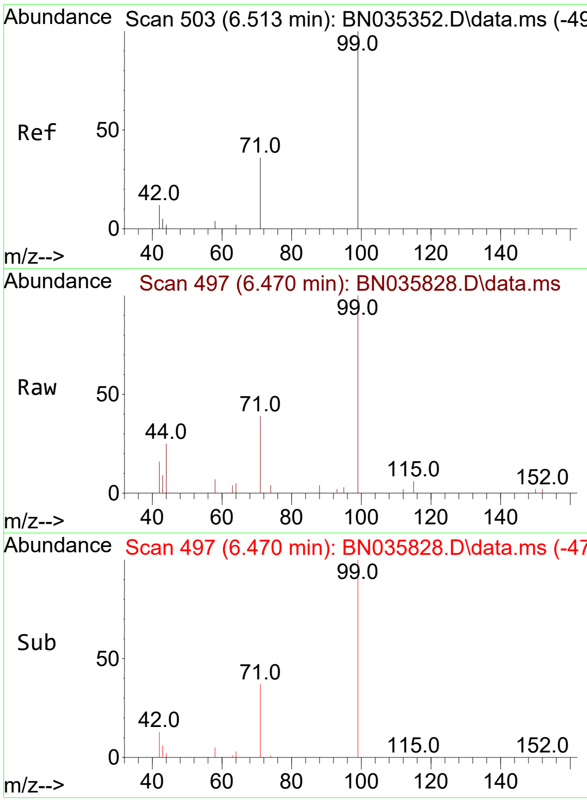


#4
2-Fluorophenol
Concen: 0.358 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:112 Resp: 3589

Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.8	59.8
63	27.8	21.0	31.6



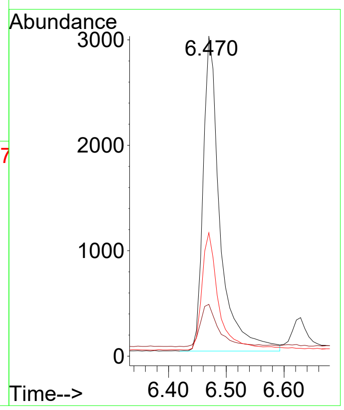


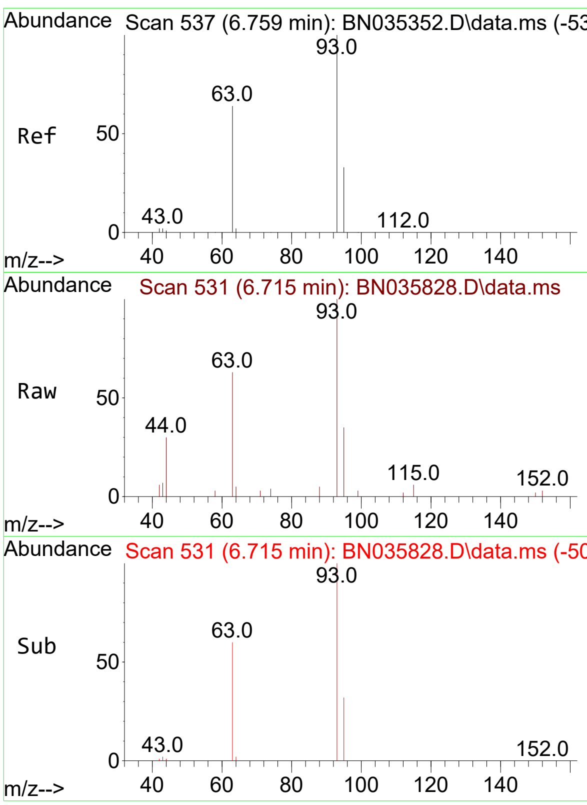
#5
Phenol-d6
Concen: 0.506 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 6110

Ion	Ratio	Lower	Upper
99	100		
42	14.9	11.4	17.2
71	37.7	29.3	43.9

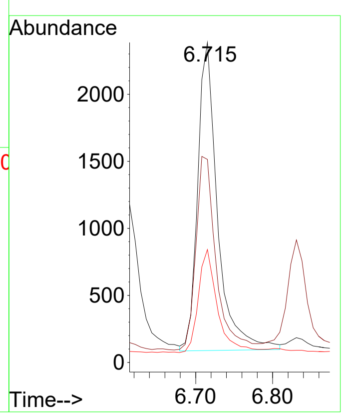


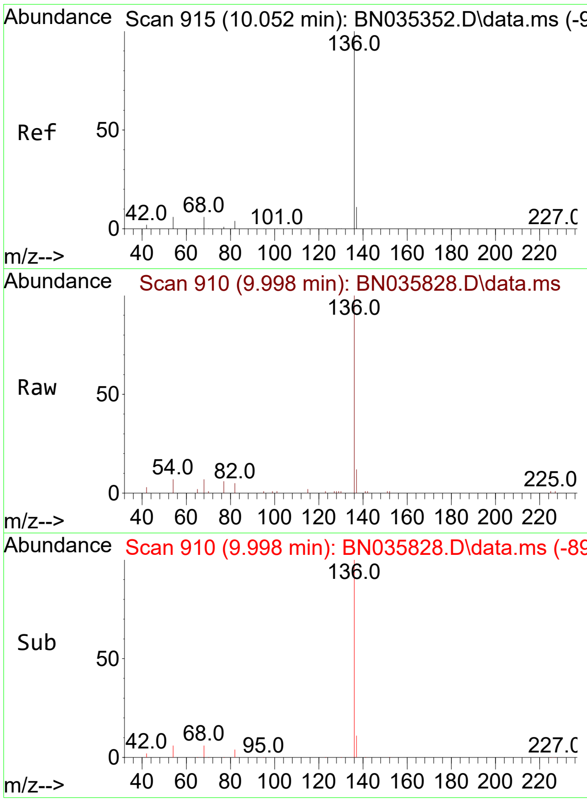


#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion: 93 Resp: 4129

Ion	Ratio	Lower	Upper
93	100		
63	63.6	50.4	75.6
95	31.8	25.7	38.5





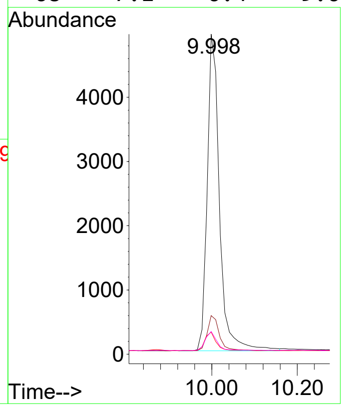
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min   Scan# 9

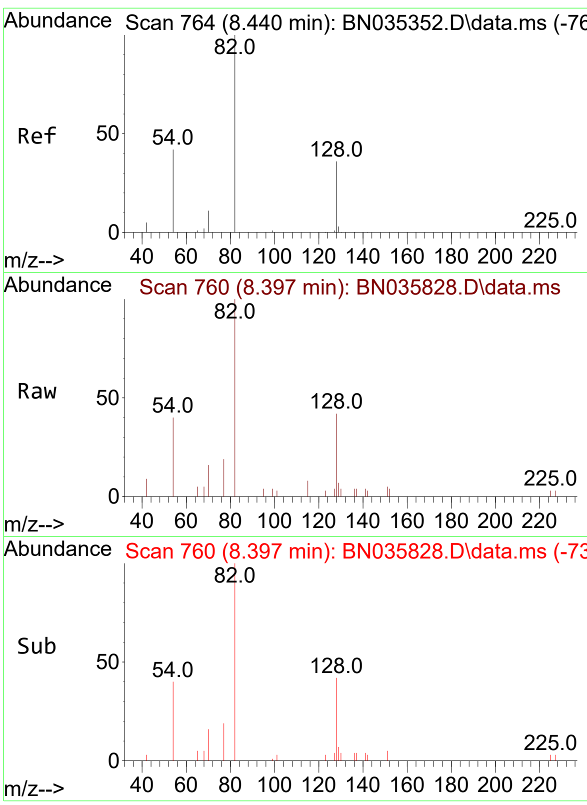
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T.   -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024   19:05

Tgt Ion:136 Resp: 9840

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

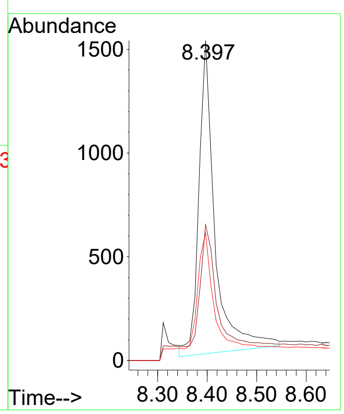


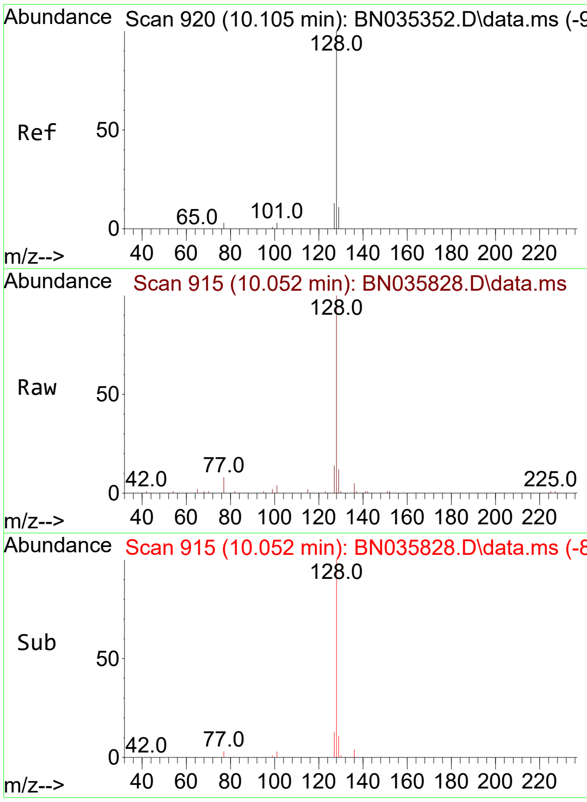


#8
Nitrobenzene-d5
Concen: 0.567 ng
RT: 8.397 min   Scan# 760
Delta R.T.   -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024   19:05

Tgt Ion: 82 Resp: 3407

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	39.9	36.7	55.1



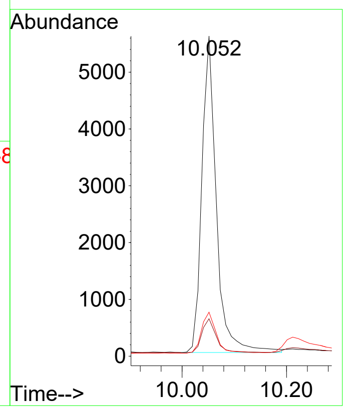


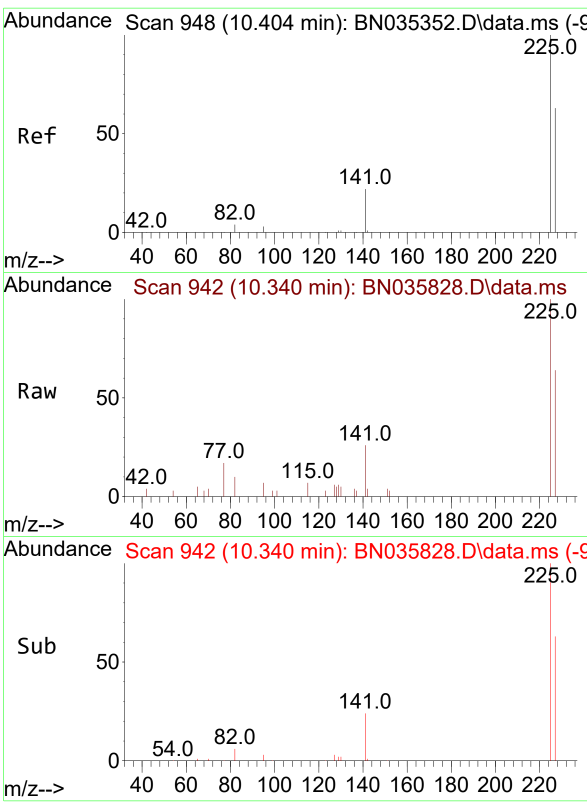
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min   Scan# 91
Delta R.T.   -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024   19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 10772

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	13.8	11.4	17.2

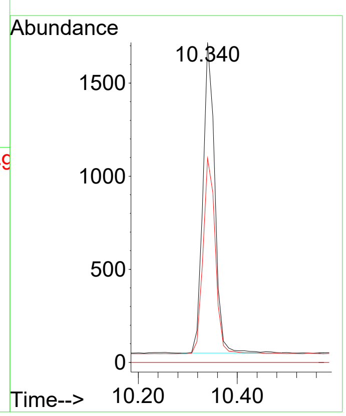


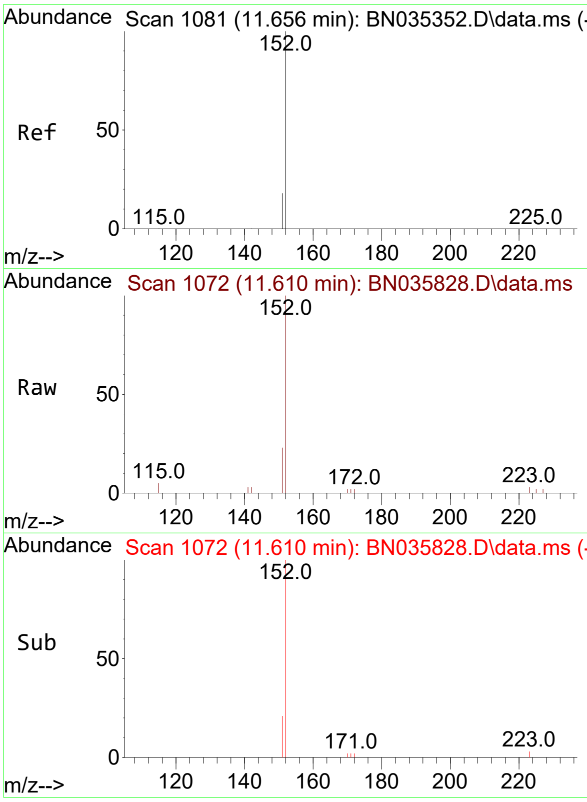


#10
Hexachlorobutadiene
Concen: 0.465 ng
RT: 10.340 min   Scan# 942
Delta R.T.   -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024   19:05

Tgt Ion:225 Resp: 2784

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9





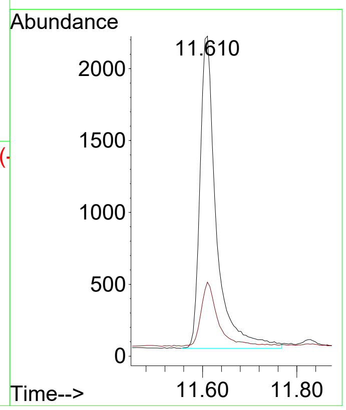
#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.610 min Scan# 10

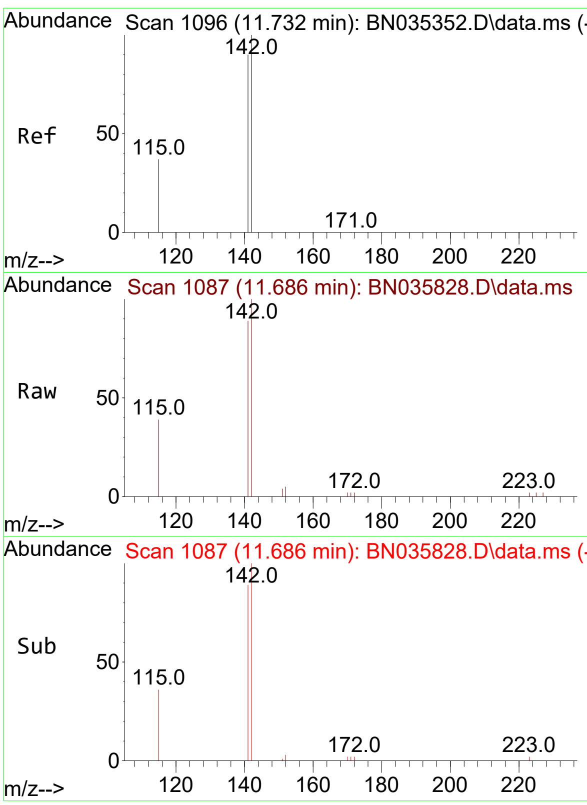
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 5246

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

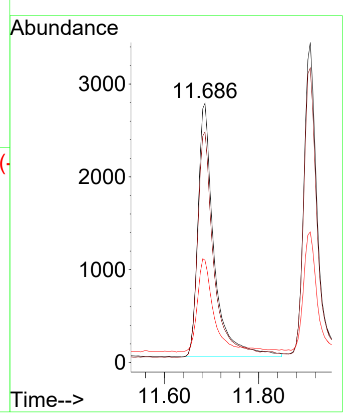


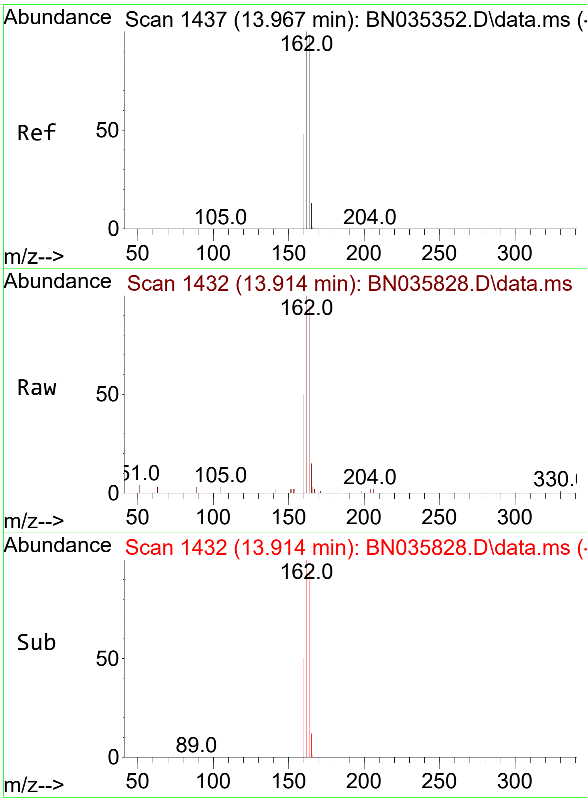


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:142 Resp: 6505

Ion	Ratio	Lower	Upper
142	100		
141	88.9	72.2	108.4
115	39.4	31.4	47.0



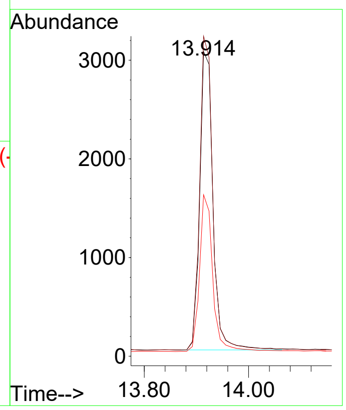


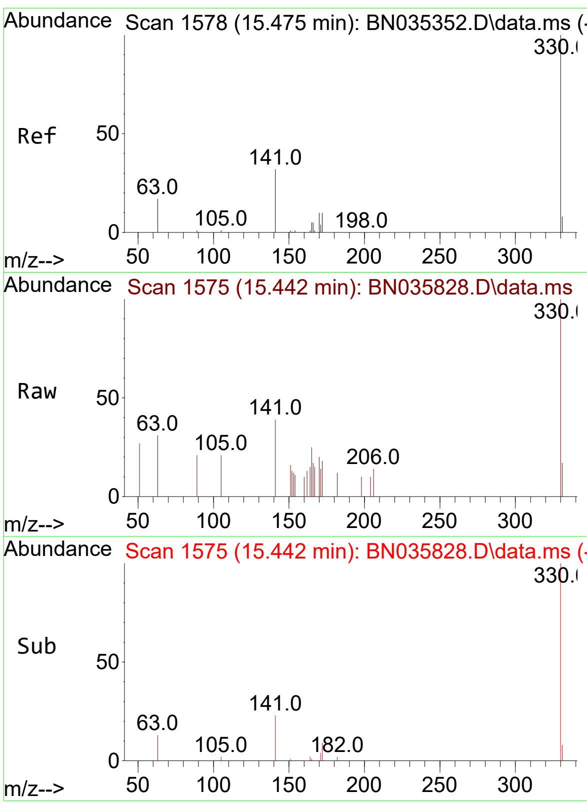
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5373

Ion	Ratio	Lower	Upper
164	100		
162	105.0	82.2	123.2
160	53.0	40.1	60.1

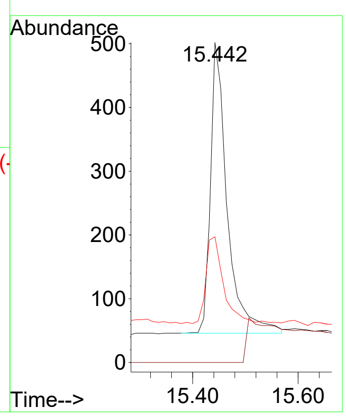


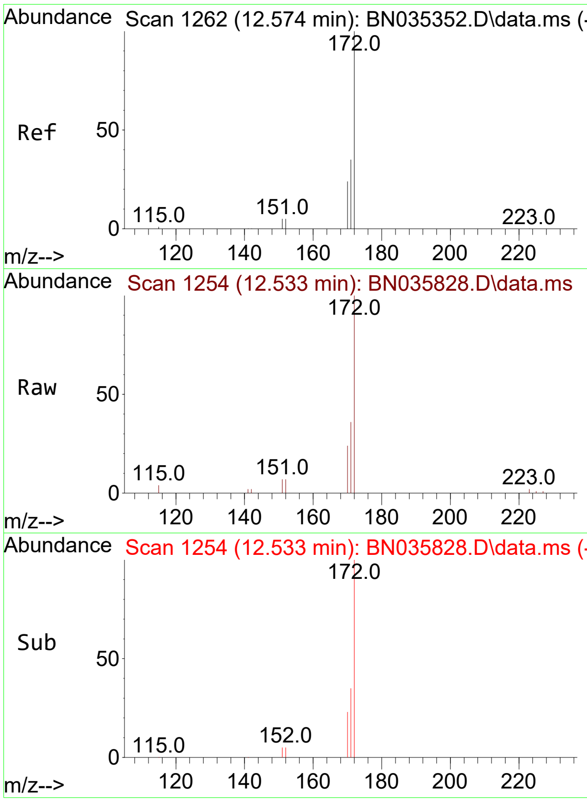


#14
2,4,6-Tribromophenol
Concen: 0.273 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:330 Resp: 1040

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.0	26.6	40.0



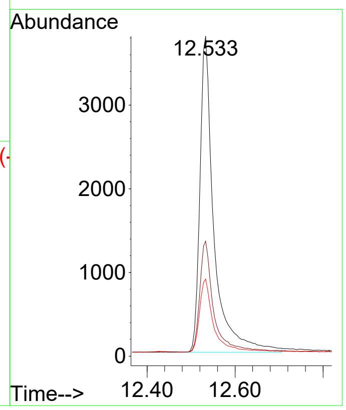


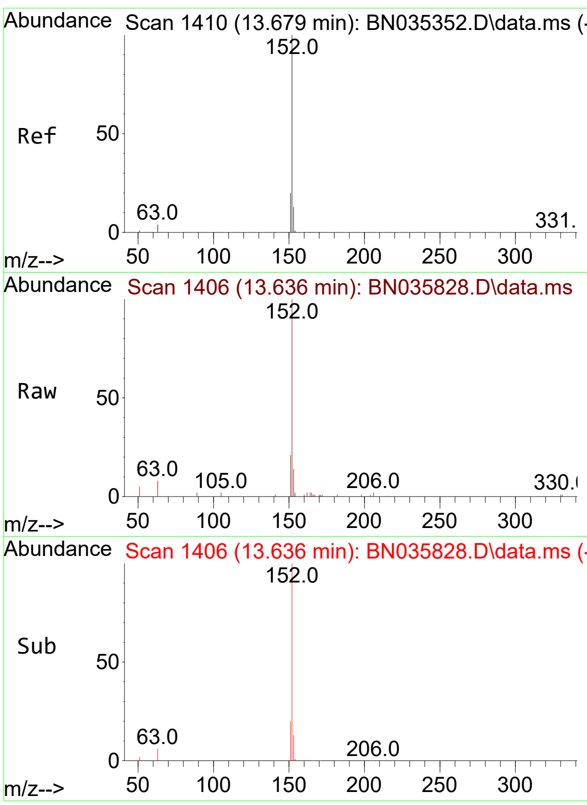
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8409

Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.0	43.4
170	24.1	19.8	29.8

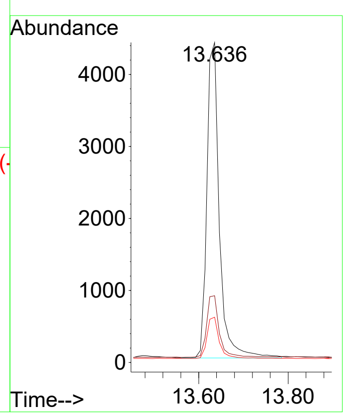


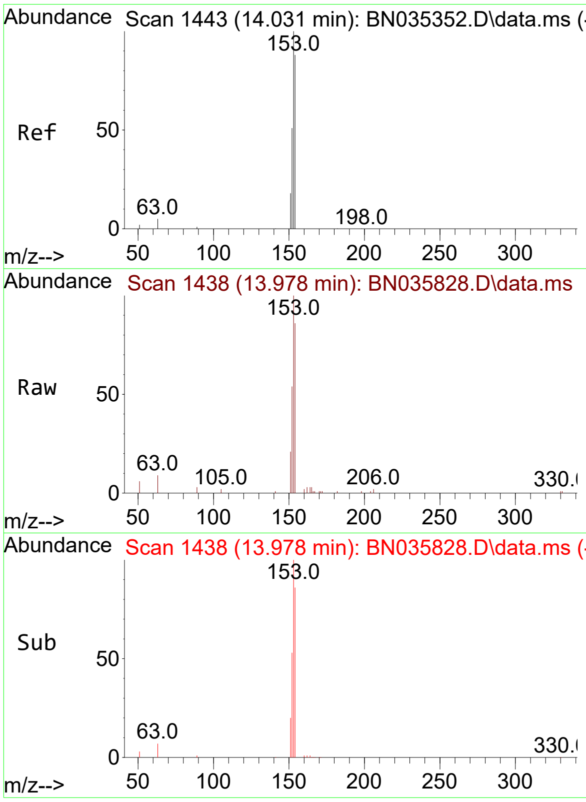


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:152 Resp: 8453

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



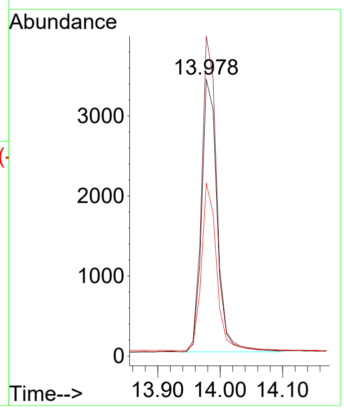


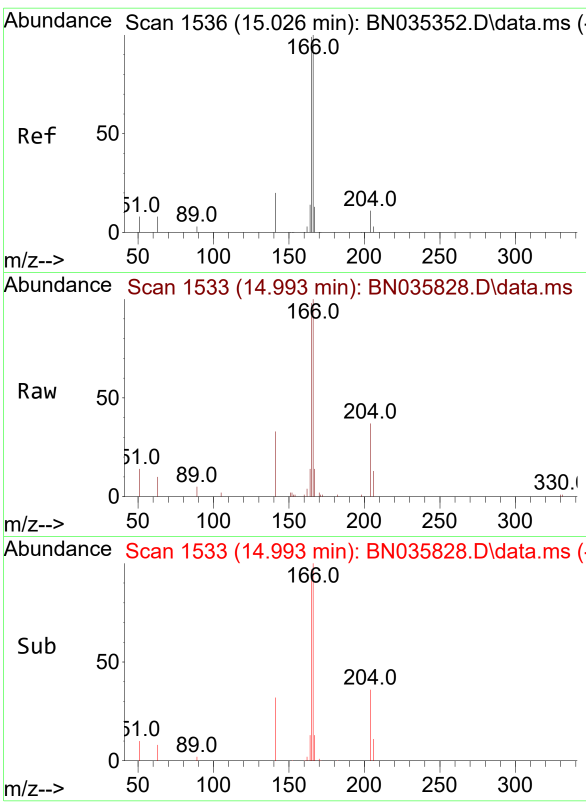
#17
Acenaphthene
Concen: 0.389 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 5821

Ion	Ratio	Lower	Upper
154	100		
153	116.2	92.6	139.0
152	60.8	49.0	73.6

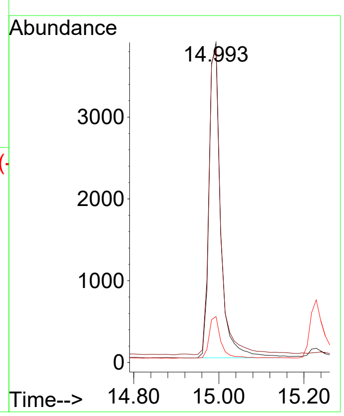


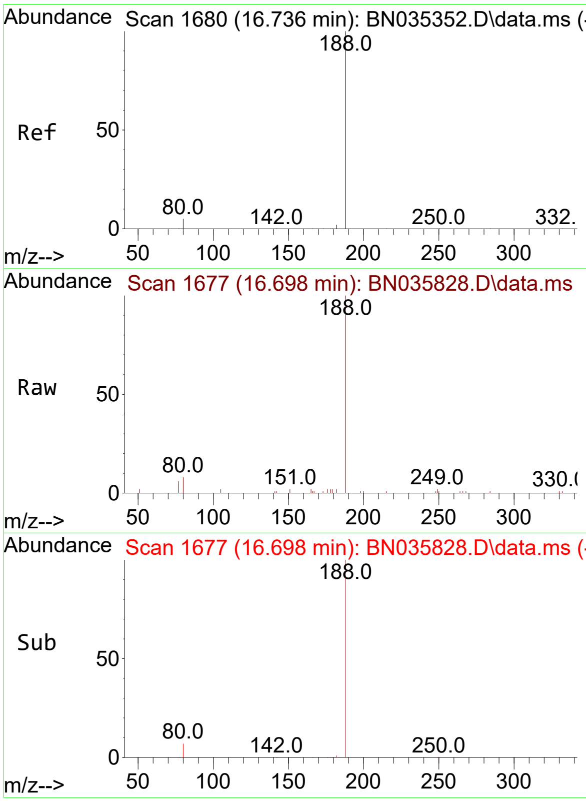


#18
Fluorene
Concen: 0.341 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:166 Resp: 7311

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.7	119.5
167	13.0	10.8	16.2



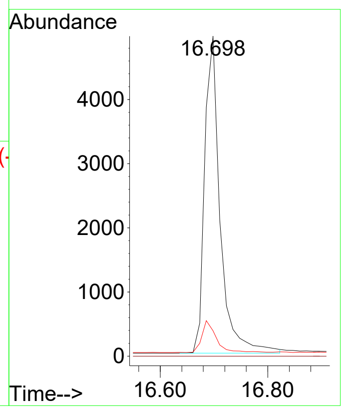


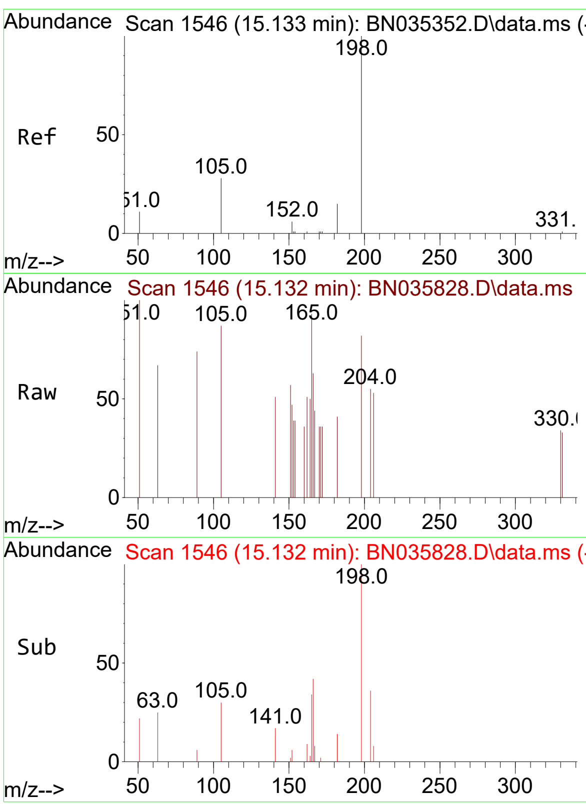
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9905

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

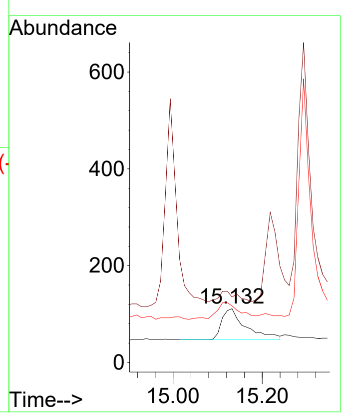


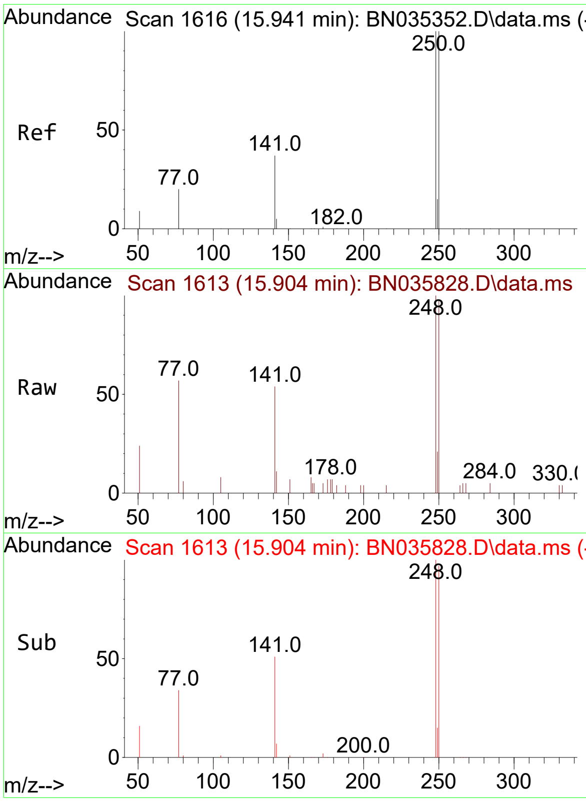


#20
4,6-Dinitro-2-methylphenol
Concen: 0.245 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:198 Resp: 239

Ion	Ratio	Lower	Upper
198	100		
51	121.6	46.5	69.7#
105	105.4	45.3	67.9#



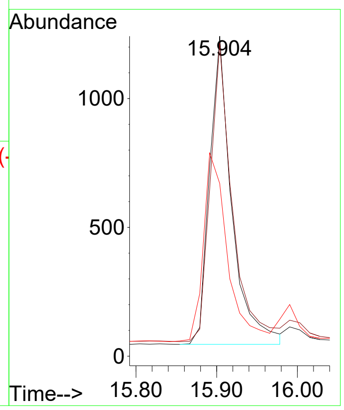


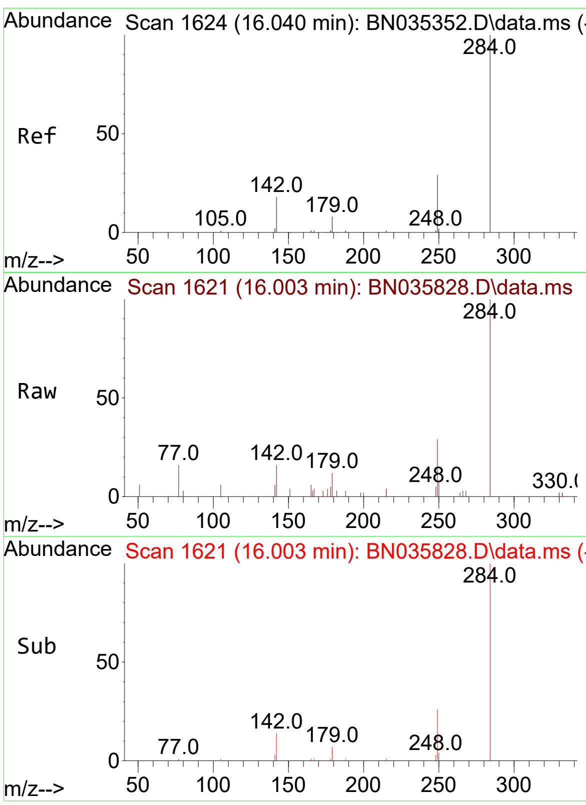
#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2287

Ion	Ratio	Lower	Upper
248	100		
250	97.8	80.6	120.8
141	53.9	31.5	47.3#

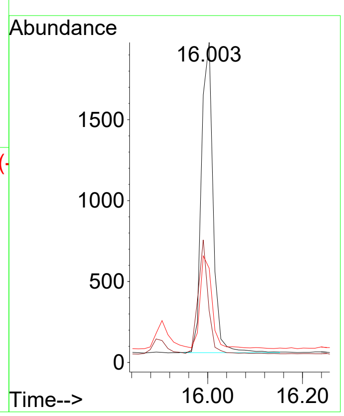


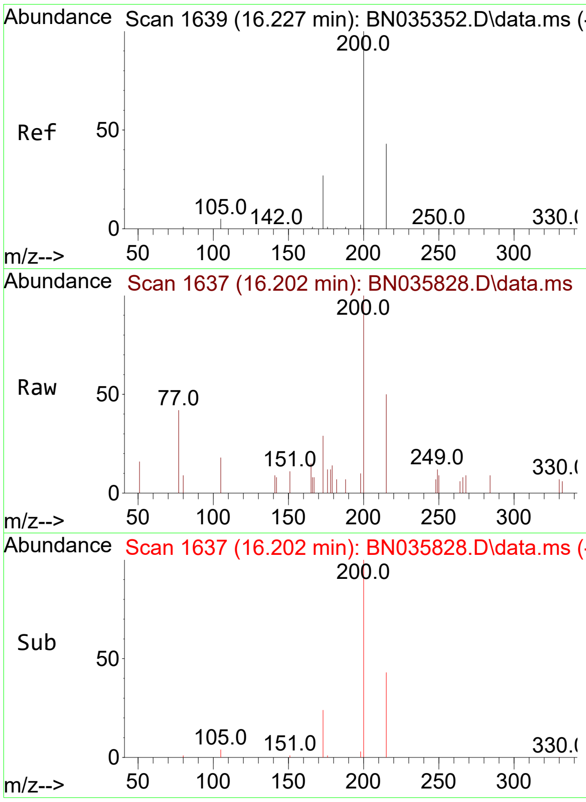


#22
Hexachlorobenzene
Concen: 0.484 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:284 Resp: 3296

Ion	Ratio	Lower	Upper
284	100		
142	32.1	26.7	40.1
249	30.7	24.6	36.8



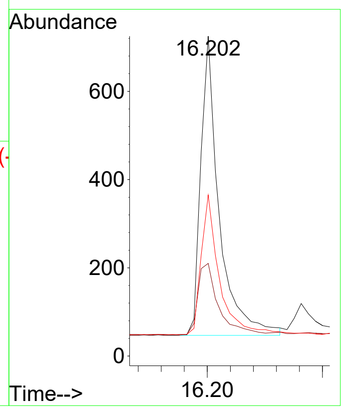


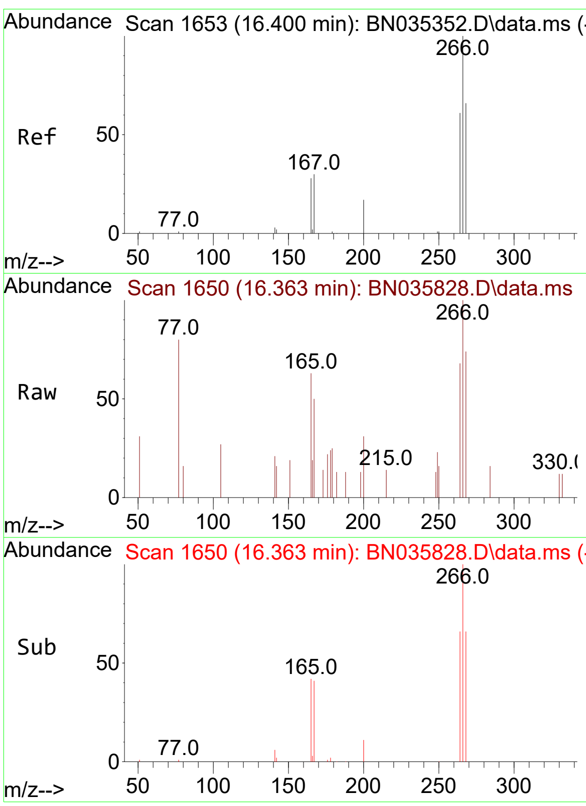
#23
Atrazine
Concen: 0.365 ng
RT: 16.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1504

Ion	Ratio	Lower	Upper
200	100		
173	29.0	24.1	36.1
215	50.3	36.9	55.3

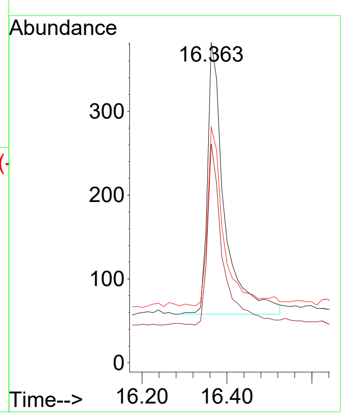


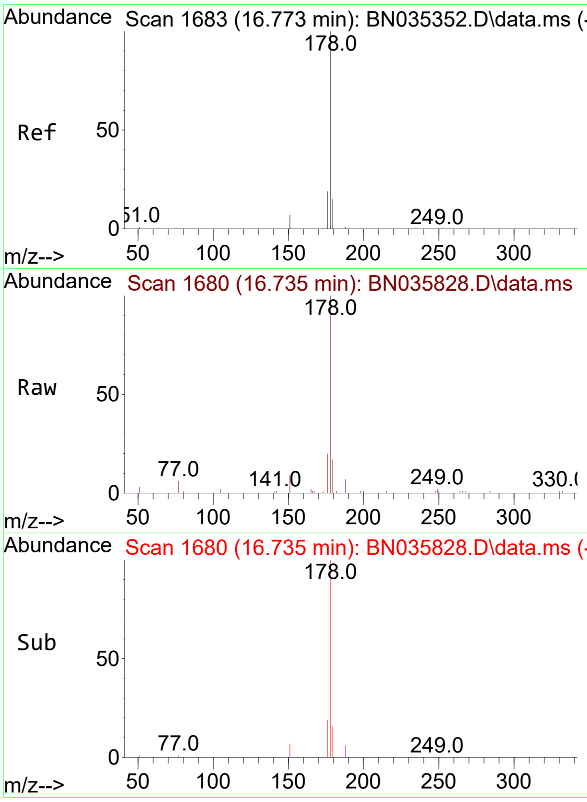


#24
Pentachlorophenol
Concen: 0.303 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:266 Resp: 898

Ion	Ratio	Lower	Upper
266	100		
264	60.9	42.3	63.5
268	61.1	43.3	64.9





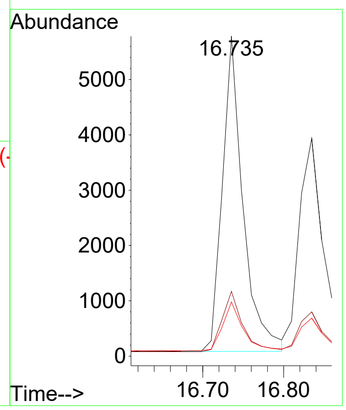
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.735 min Scan# 16

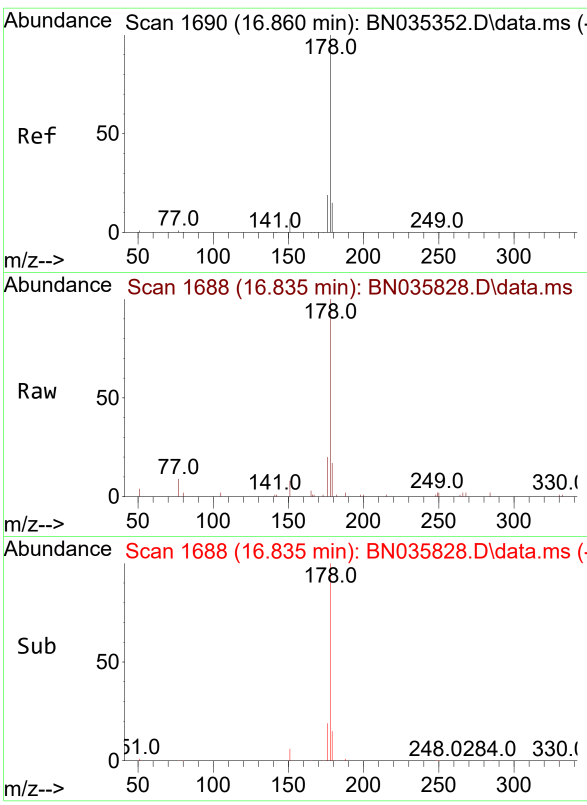
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T.   -0.013 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 10097

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

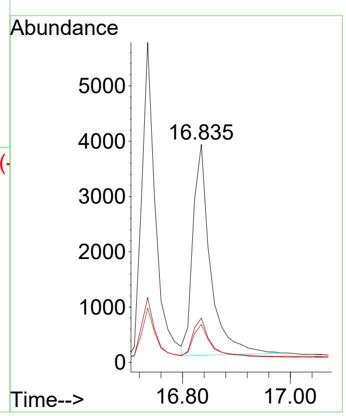


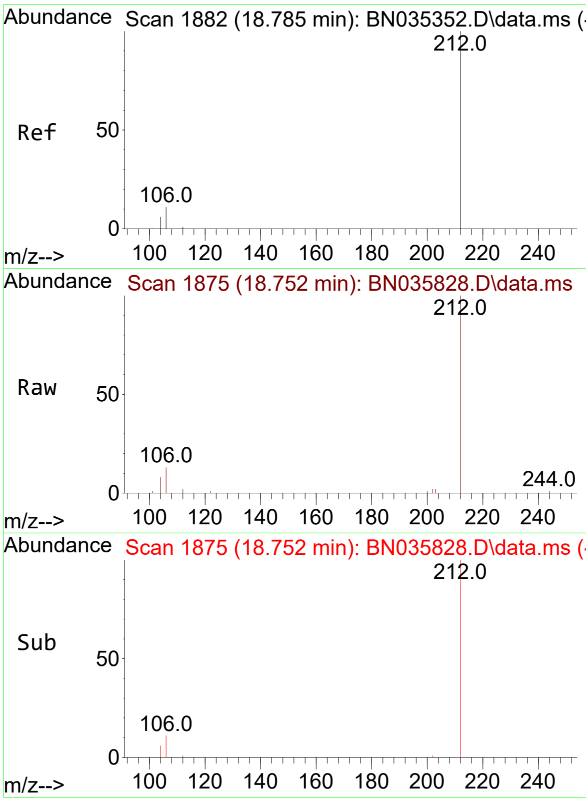


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T.   -0.000 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:178 Resp: 8619

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.5	12.6	18.8



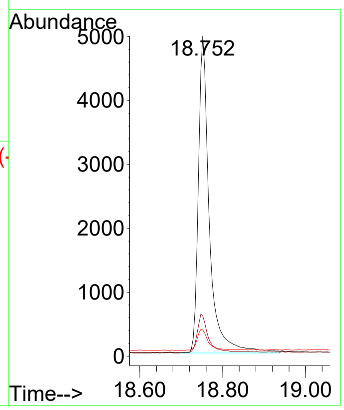


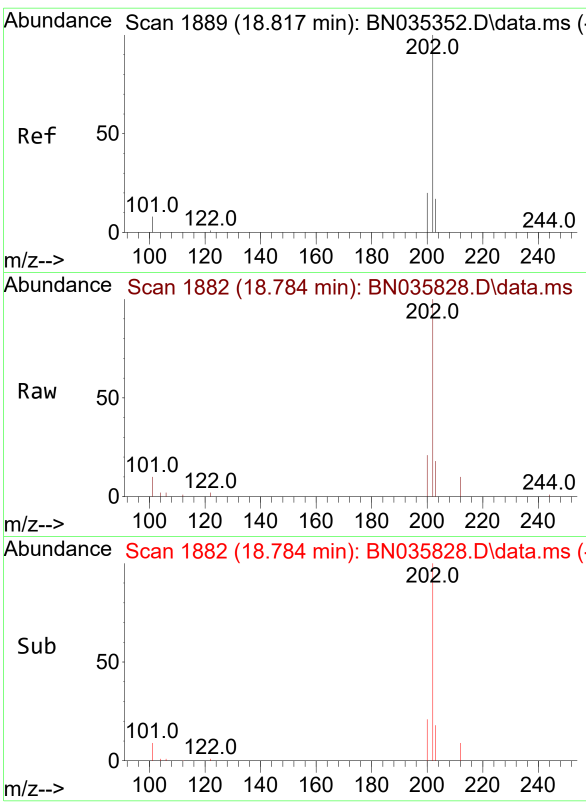
#27
Fluoranthene-d10
Concen: 0.328 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 9222

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	7.0	5.3	7.9

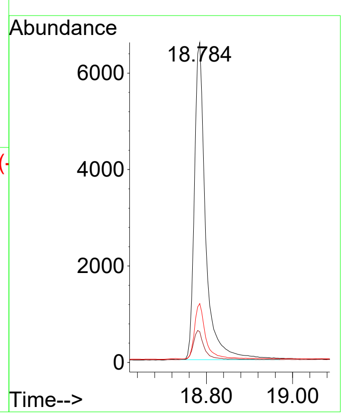


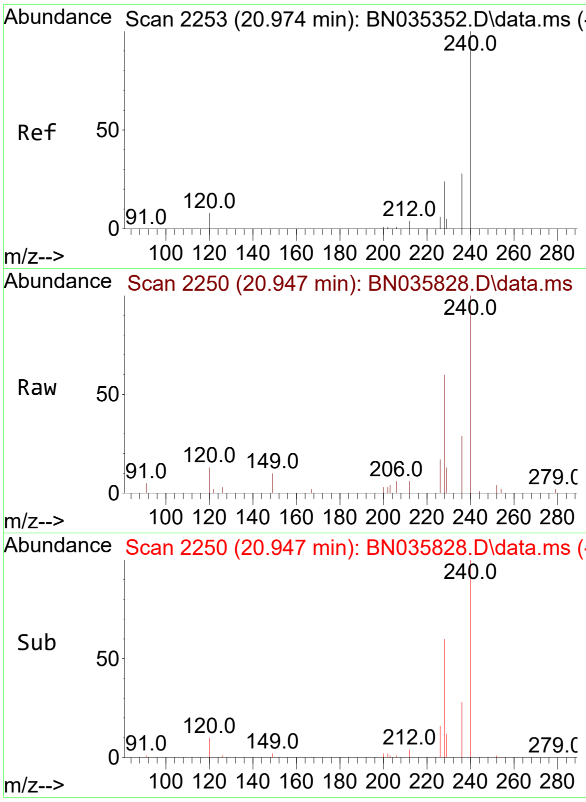


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.784 min Scan# 1882
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 11973

Ion	Ratio	Lower	Upper
202	100		
101	8.8	7.4	11.0
203	17.3	13.7	20.5



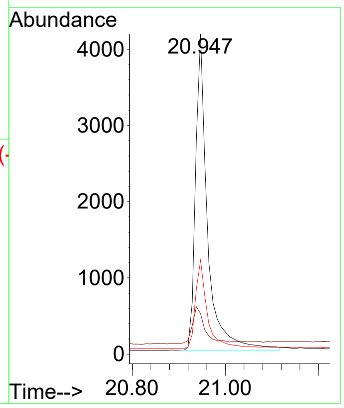


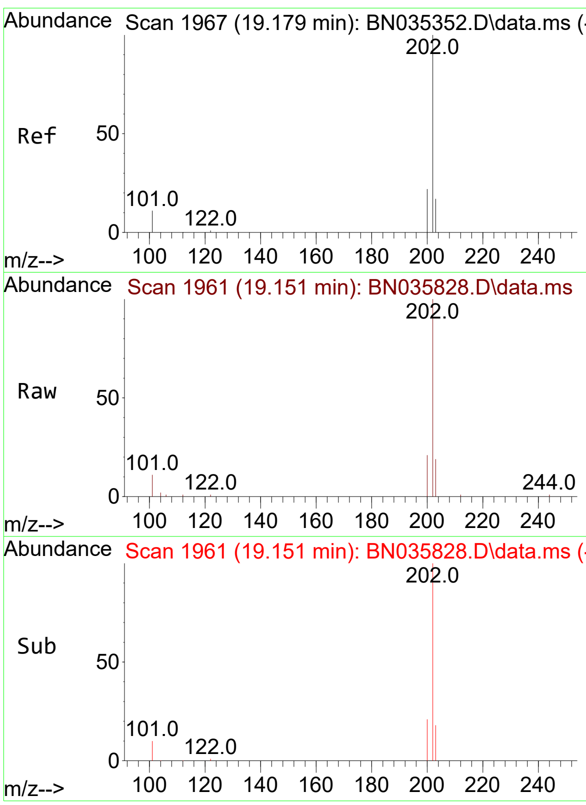
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 7447

Ion	Ratio	Lower	Upper
240	100		
120	12.6	7.9	11.9#
236	29.4	22.9	34.3

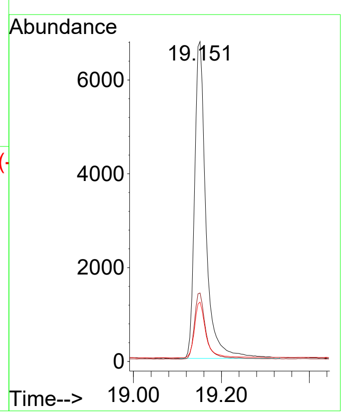


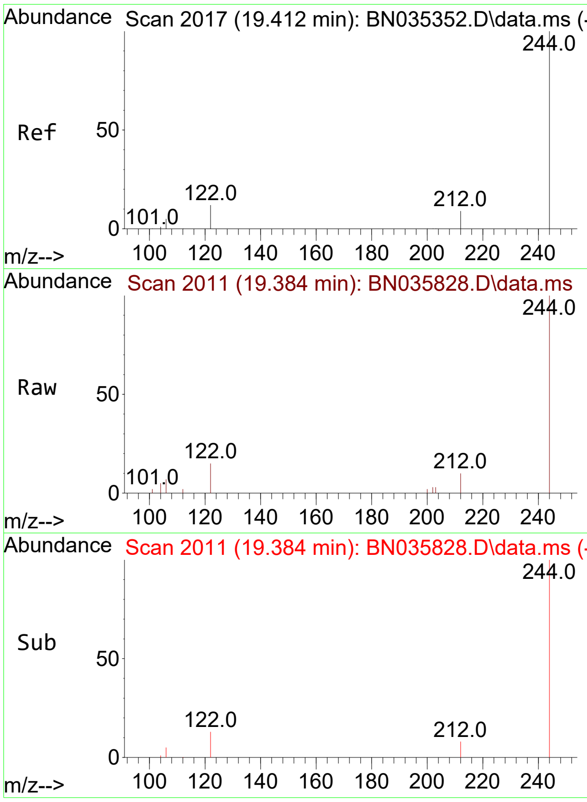


#30
Pyrene
Concen: 0.445 ng
RT: 19.151 min Scan# 1961
Delta R.T. -0.010 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:202 Resp: 12223

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



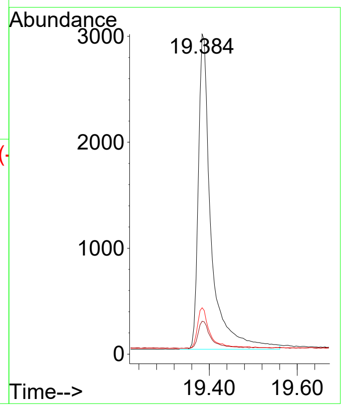


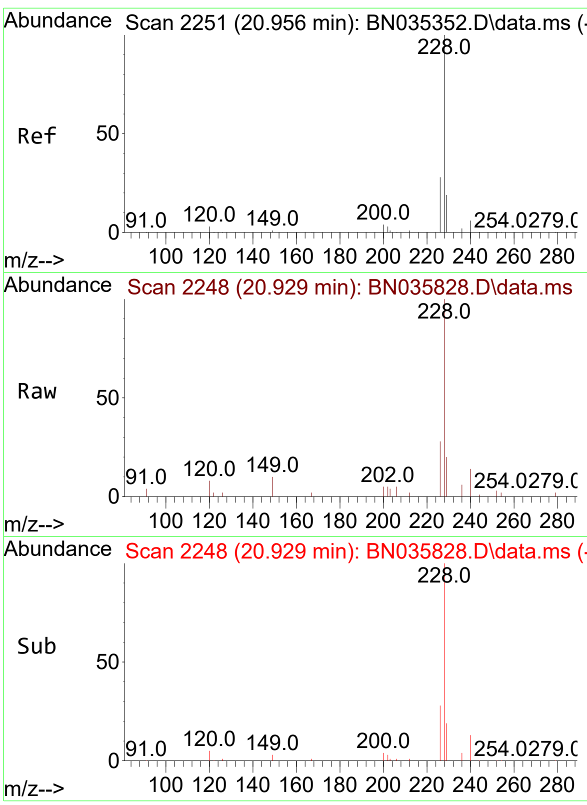
#31
Terphenyl-d14
Concen: 0.410 ng
RT: 19.384 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 6024

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.5	10.3	15.5

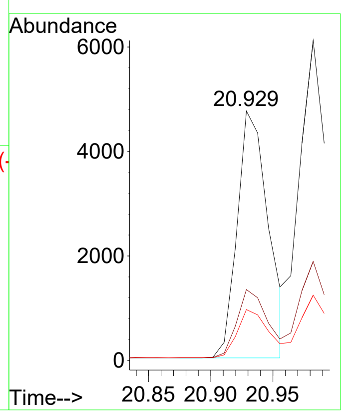


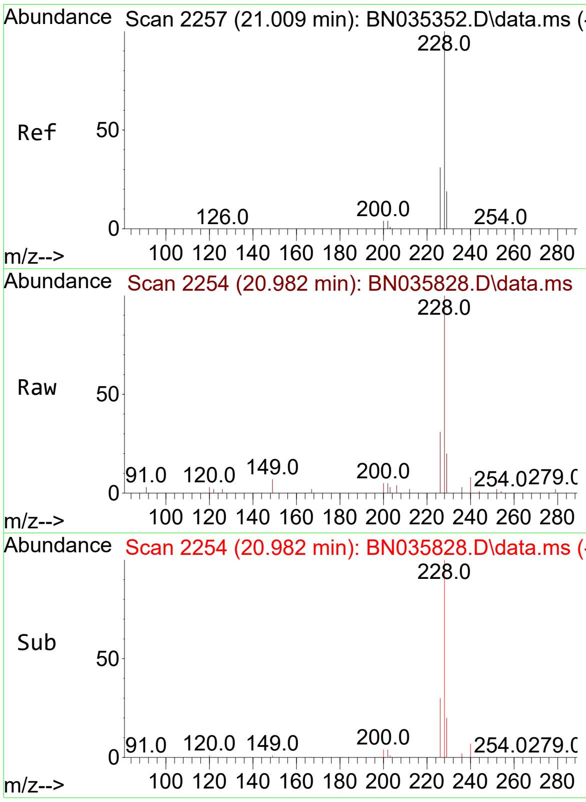


#32
Benzo(a)anthracene
Concen: 0.315 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:228 Resp: 8203

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.4	15.8	23.8



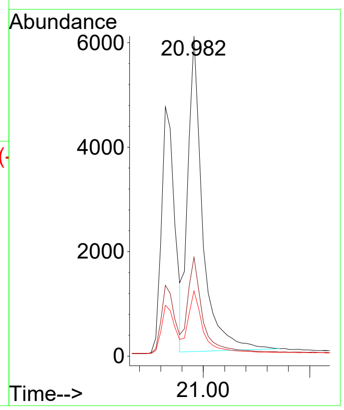


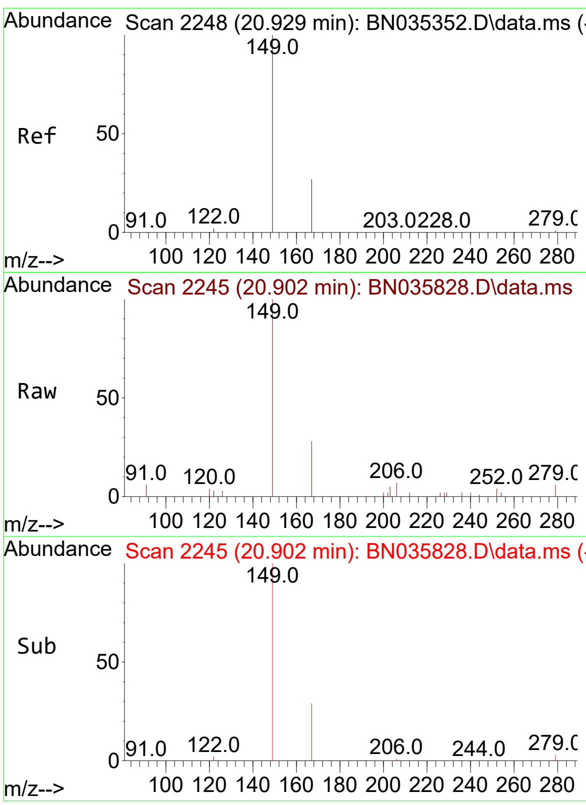
#33
Chrysene
Concen: 0.433 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 11628

Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	20.4	15.9	23.9

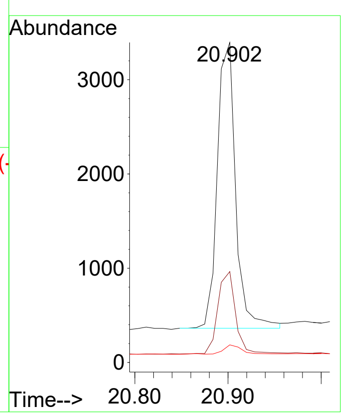


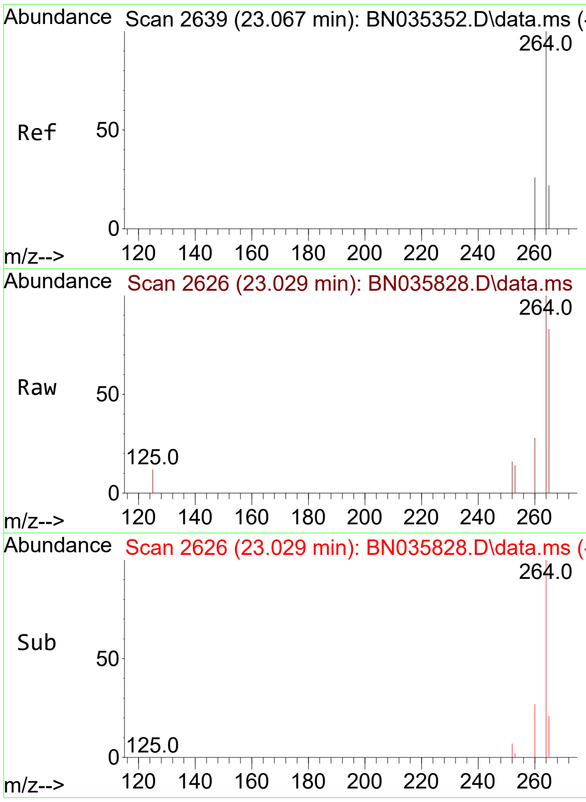


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.402 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:149 Resp: 4135

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.5	2.7	4.1



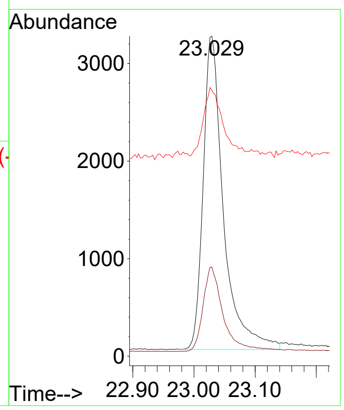


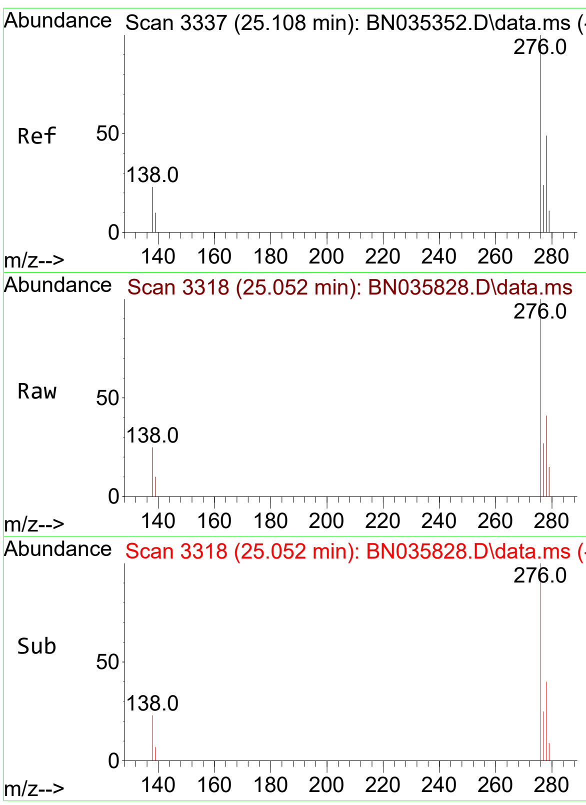
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 7426

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.4	32.2
265	83.1	40.2	60.4#

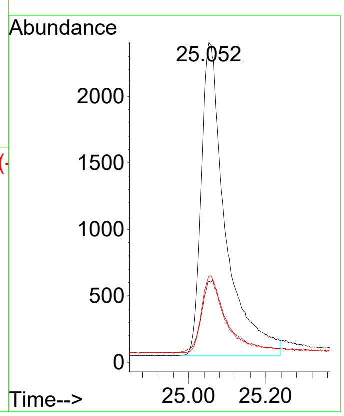


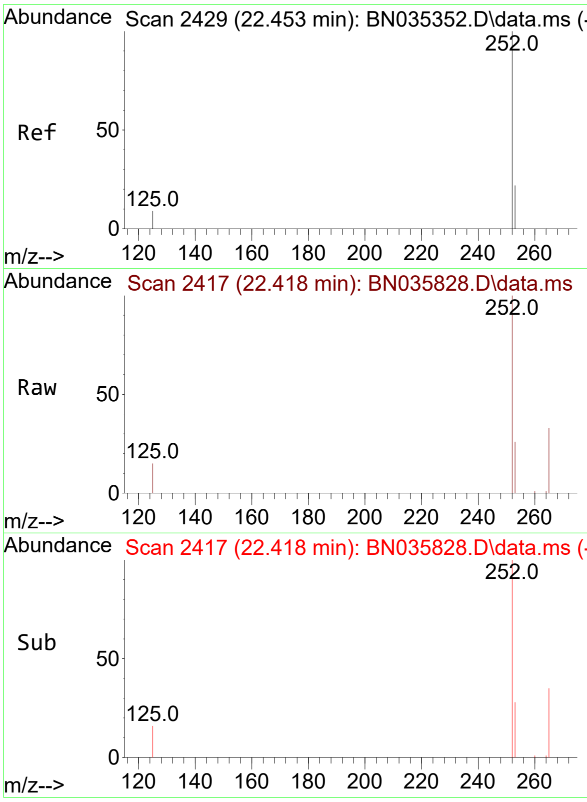


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.355 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:276 Resp: 10298

Ion	Ratio	Lower	Upper
276	100		
138	8.7	19.4	29.0#
277	22.9	19.8	29.6



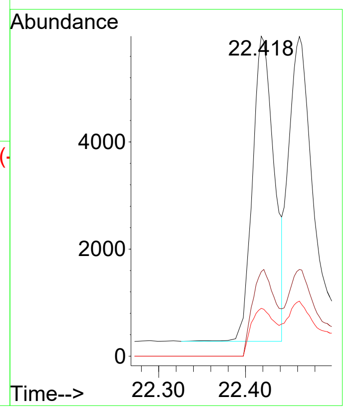


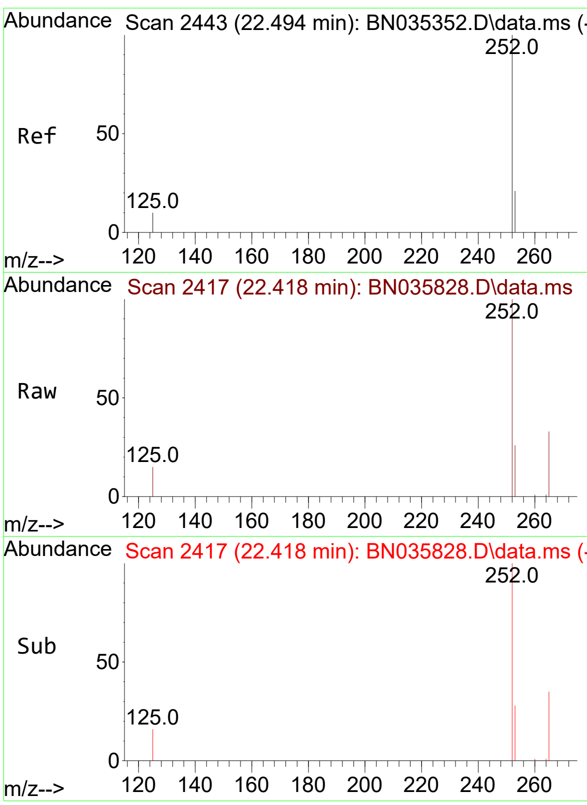
#37
Benzo(b)fluoranthene
Concen: 0.635 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.6	29.4
125	15.0	9.6	14.4#

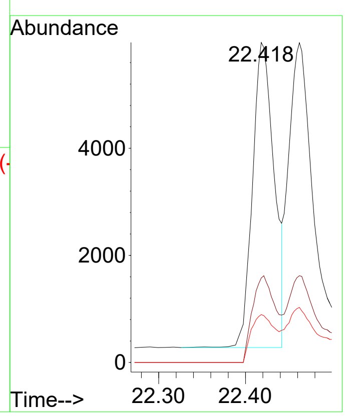


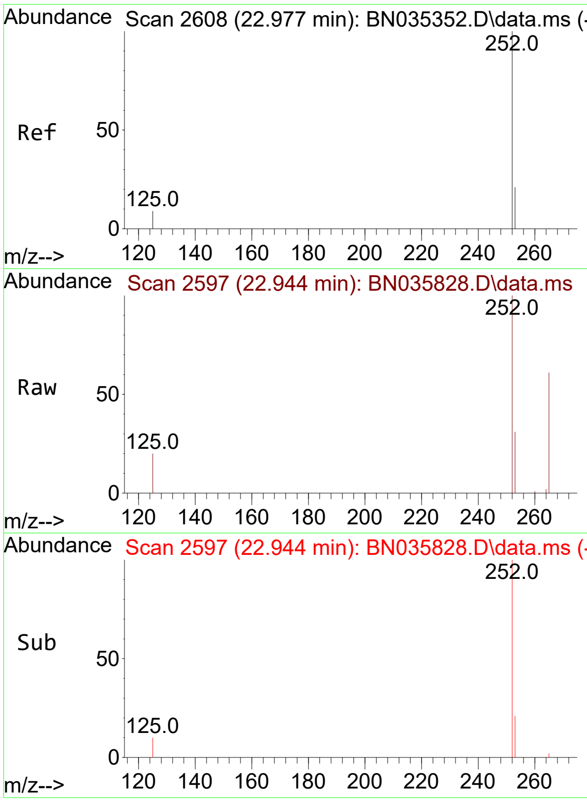


#38
Benzo(k)fluoranthene
Concen: 0.645 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 17240

Ion	Ratio	Lower	Upper
252	100		
253	26.4	19.5	29.3
125	15.0	10.2	15.4





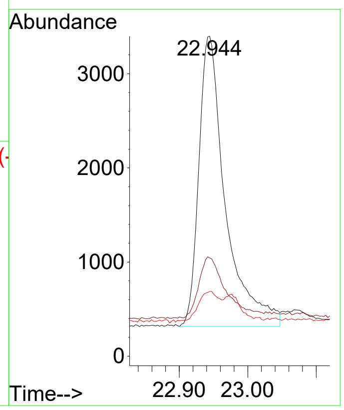
#39
Benzo(a)pyrene
Concen: 0.373 ng
RT: 22.944 min Scan# 2

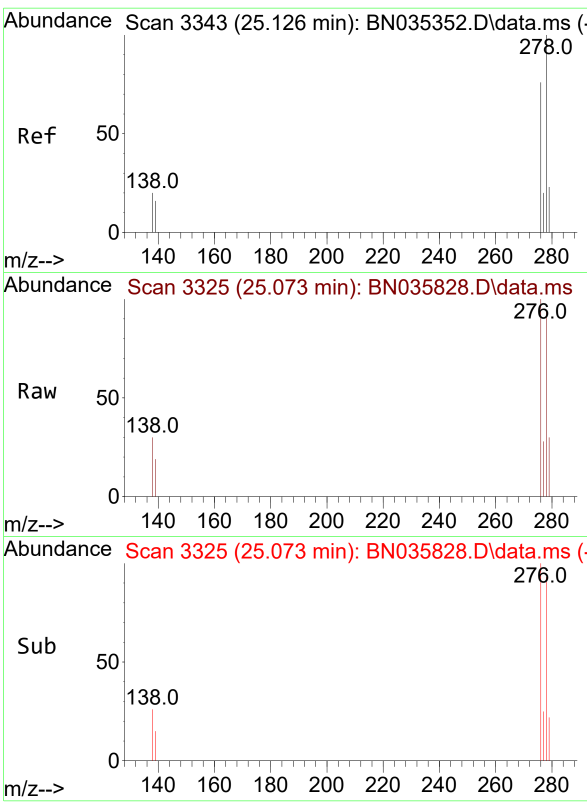
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T. -0.006 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:252 Resp: 8337

Ion	Ratio	Lower	Upper
252	100		
253	30.7	20.2	30.4#
125	20.2	10.9	16.3#

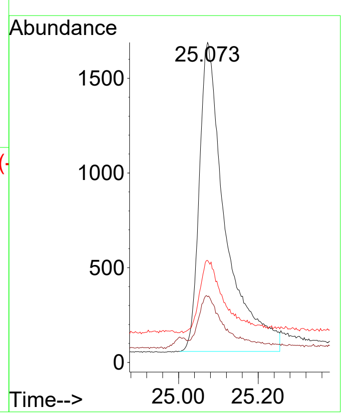


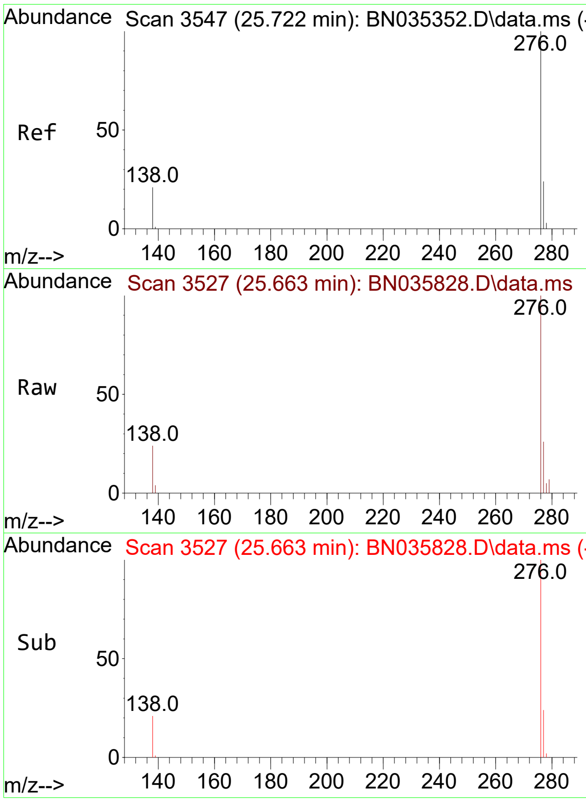


#40
Dibenzo(a,h)anthracene
Concen: 0.323 ng
RT: 25.073 min Scan# 3325
Delta R.T. -0.009 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Tgt Ion:278 Resp: 7409

Ion	Ratio	Lower	Upper
278	100		
139	20.5	14.2	21.4
279	31.9	20.5	30.7#



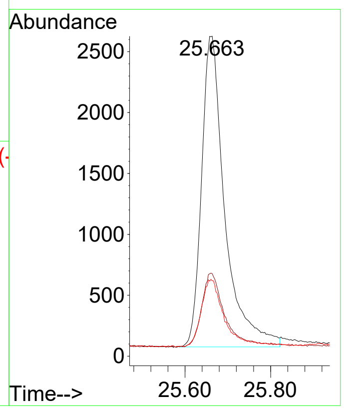


#41
Benzo(g,h,i)perylene
Concen: 0.403 ng
RT: 25.663 min   Scan# 3
Delta R.T.   -0.015 min
Lab File: BN035828.D
Acq: 24 Dec 2024 19:05

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 9651

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	23.6	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

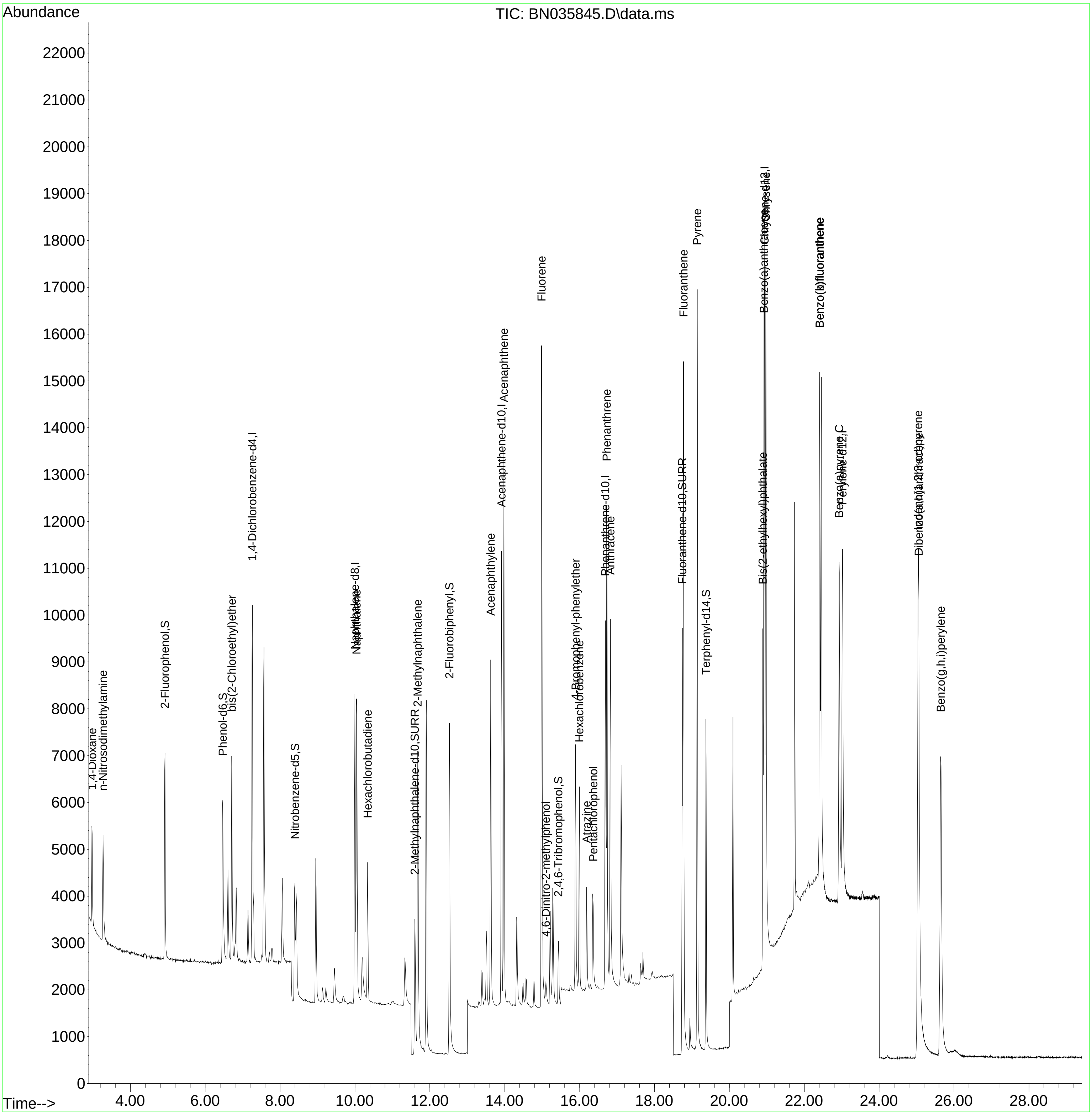
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	3755	0.400 ng	-0.01
7) Naphthalene-d8	9.999	136	9322	0.400 ng	#-0.02
13) Acenaphthene-d10	13.914	164	5387	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	11262	0.400 ng	#-0.01
29) Chrysene-d12	20.938	240	9932	0.400 ng	#-0.02
35) Perylene-d12	23.021	264	10817	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.924	112	3777	0.402 ng	-0.01
5) Phenol-d6	6.470	99	4175	0.369 ng	-0.02
8) Nitrobenzene-d5	8.397	82	3148	0.553 ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	5080	0.348 ng	-0.02
14) 2,4,6-Tribromophenol	15.432	330	1338	0.350 ng	-0.02
15) 2-Fluorobiphenyl	12.523	172	8104	0.398 ng	-0.02
27) Fluoranthene-d10	18.743	212	11161	0.350 ng	-0.02
31) Terphenyl-d14	19.375	244	7783	0.397 ng	-0.01
Target Compounds					Qvalue
2) 1,4-Dioxane	2.982	88	1520	0.423 ng	97
3) n-Nitrosodimethylamine	3.270	42	1223	0.409 ng	# 82
6) bis(2-Chloroethyl)ether	6.708	93	3599	0.379 ng	99
9) Naphthalene	10.041	128	9440	0.384 ng	100
10) Hexachlorobutadiene	10.340	225	2352	0.415 ng	# 99
12) 2-Methylnaphthalene	11.676	142	5939	0.337 ng	98
16) Acenaphthylene	13.625	152	8340	0.369 ng	100
17) Acenaphthene	13.978	154	5695	0.379 ng	99
18) Fluorene	14.983	166	7523	0.350 ng	99
20) 4,6-Dinitro-2-methylph...	15.100	198	526	0.475 ng	# 39
21) 4-Bromophenyl-phenylether	15.891	248	2443	0.371 ng	# 87
22) Hexachlorobenzene	15.991	284	3482	0.450 ng	95
23) Atrazine	16.189	200	1843	0.393 ng	97
24) Pentachlorophenol	16.363	266	1383	0.411 ng	87
25) Phenanthrene	16.723	178	11602	0.375 ng	100
26) Anthracene	16.822	178	10005	0.358 ng	100
28) Fluoranthene	18.775	202	14489	0.347 ng	98
30) Pyrene	19.142	202	15278	0.417 ng	100
32) Benzo(a)anthracene	20.920	228	12798	0.368 ng	100
33) Chrysene	20.974	228	14214	0.397 ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	6282	0.458 ng	100
36) Indeno(1,2,3-cd)pyrene	25.041	276	15946	0.377 ng	97
37) Benzo(b)fluoranthene	22.412	252	19565	0.494 ng	# 96
38) Benzo(k)fluoranthene	22.412	252	19565	0.502 ng	96
39) Benzo(a)pyrene	22.933	252	12458	0.382 ng	# 92
40) Dibenzo(a,h)anthracene	25.058	278	12678	0.380 ng	96
41) Benzo(g,h,i)perylene	25.646	276	14614	0.419 ng	98

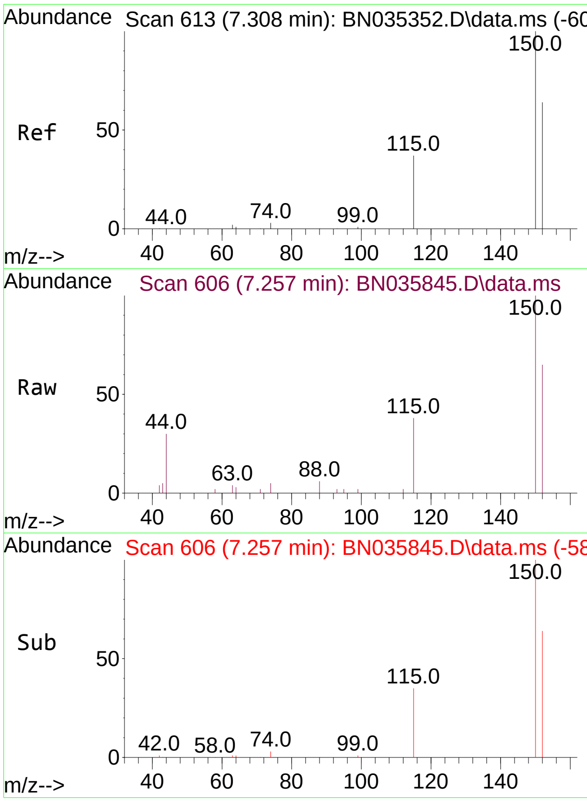
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



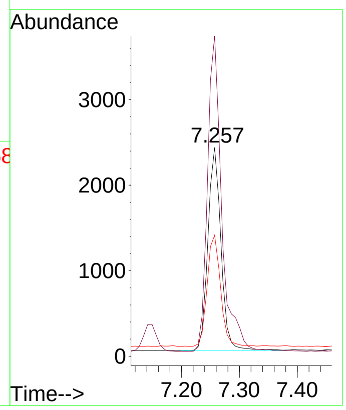


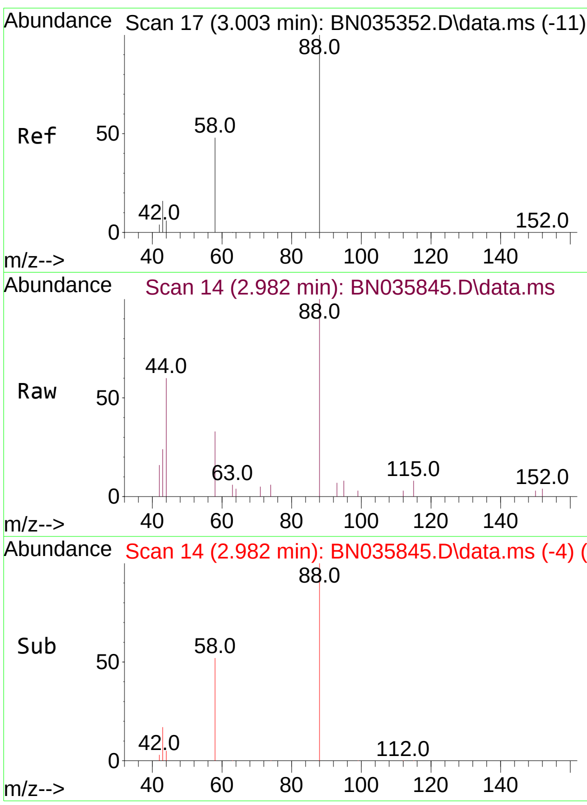
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min   Scan# 60
Delta R.T.   -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024   09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3755

Ion	Ratio	Lower	Upper
152	100		
150	153.5	124.0	186.0
115	58.0	49.6	74.4

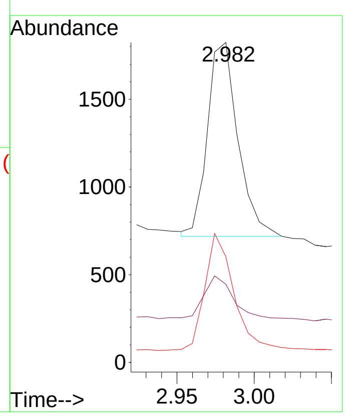


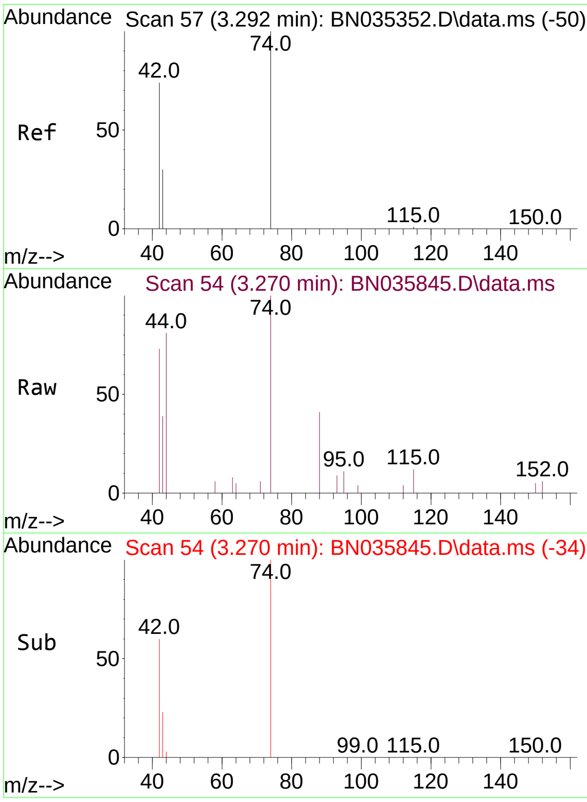


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min   Scan# 14
Delta R.T.   -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024   09:58

Tgt Ion: 88 Resp: 1520

Ion	Ratio	Lower	Upper
88	100		
43	19.9	17.2	25.8
58	57.5	44.5	66.7



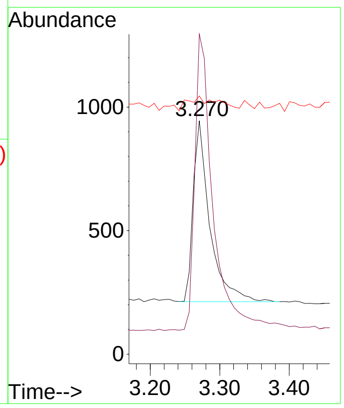


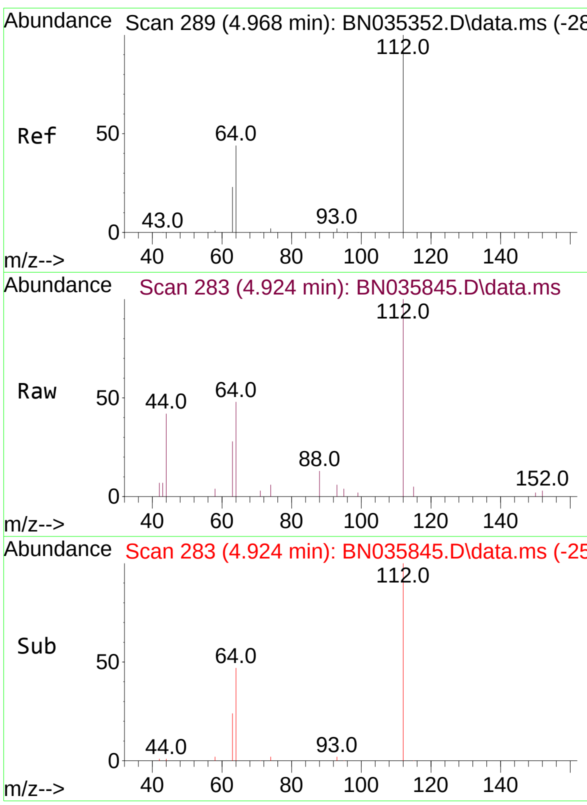
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1223

Ion	Ratio	Lower	Upper
42	100		
74	179.4	124.9	187.3
44	16.9	2.2	3.4#

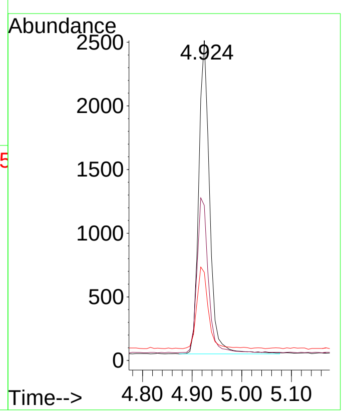


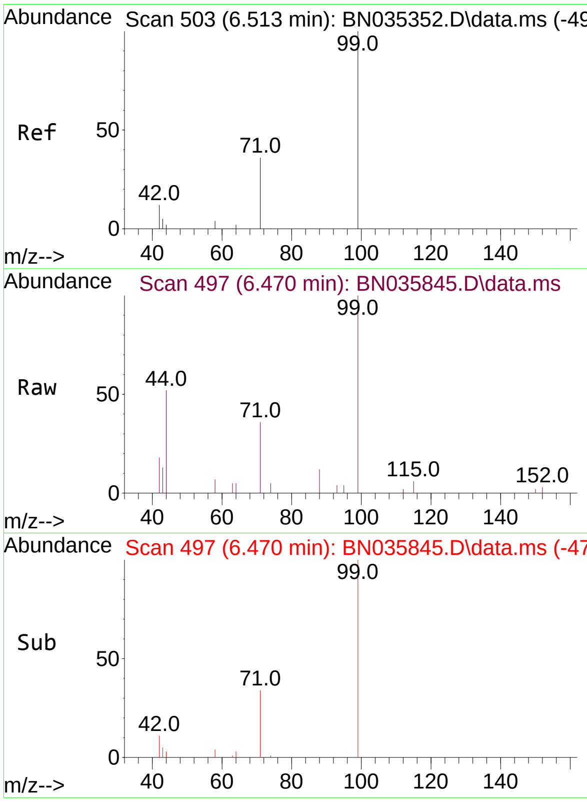


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:112 Resp: 3777

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.5	21.0	31.6



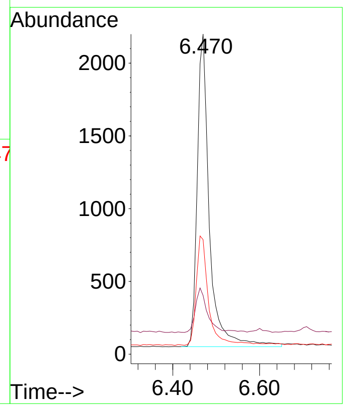


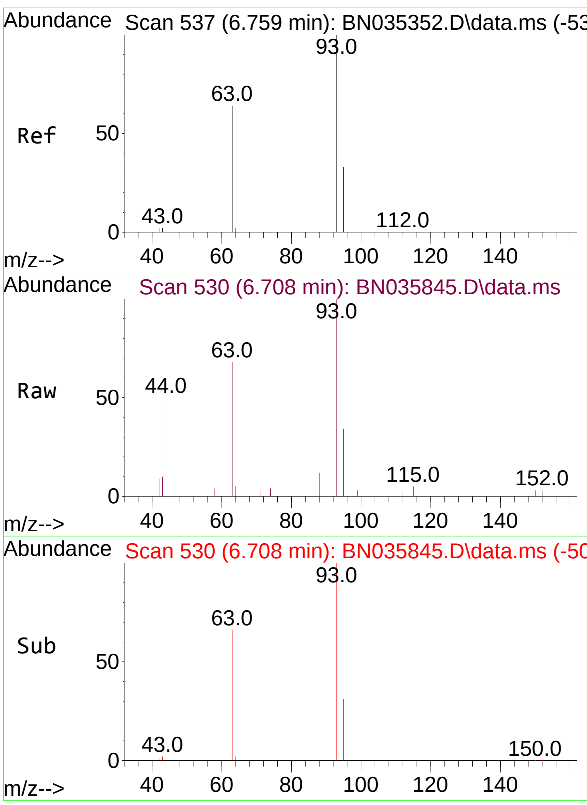
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4175

Ion	Ratio	Lower	Upper
99	100		
42	14.0	11.4	17.2
71	35.3	29.3	43.9

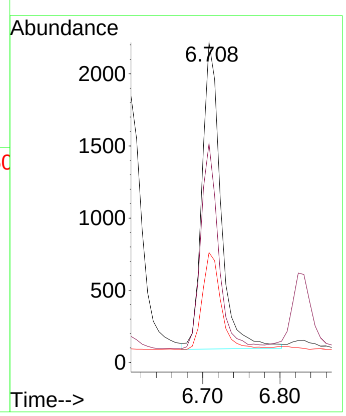


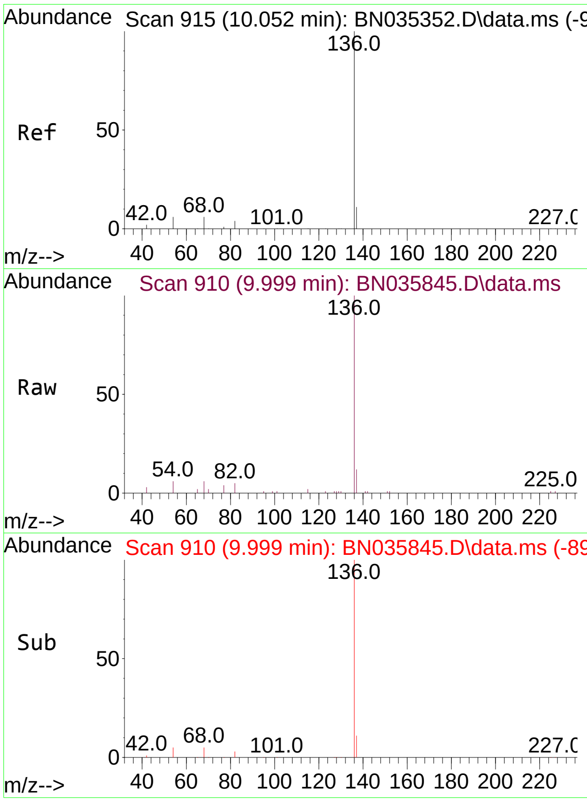


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 93 Resp: 3599

Ion	Ratio	Lower	Upper
93	100		
63	63.3	50.4	75.6
95	31.3	25.7	38.5



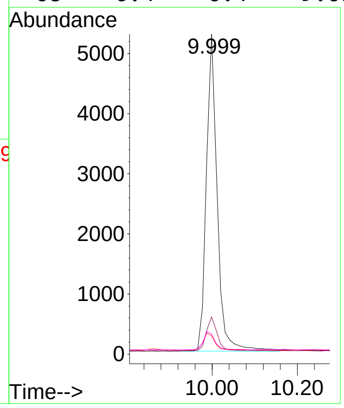


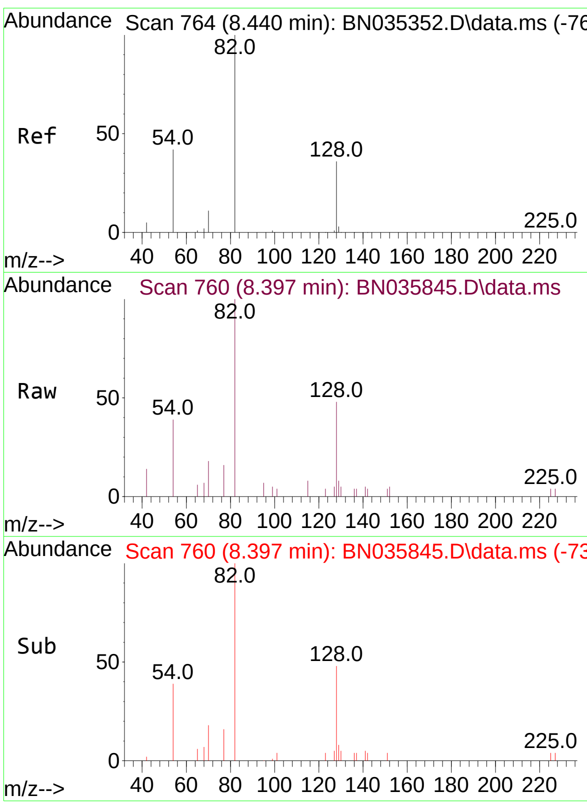
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 9322

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.8	6.1	9.1#
68	6.4	6.4	9.6#

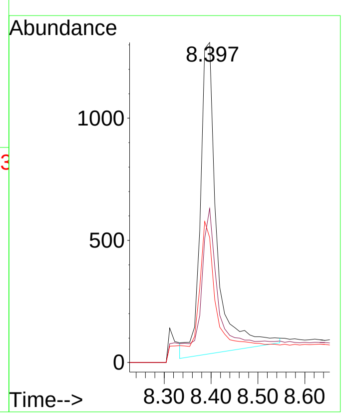


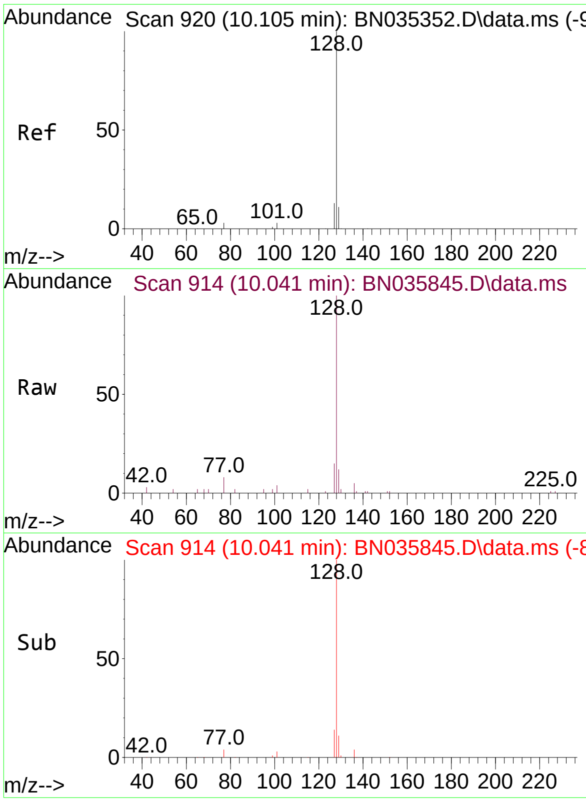


#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion: 82 Resp: 3148

Ion	Ratio	Lower	Upper
82	100		
128	48.1	33.4	50.0
54	39.1	36.7	55.1



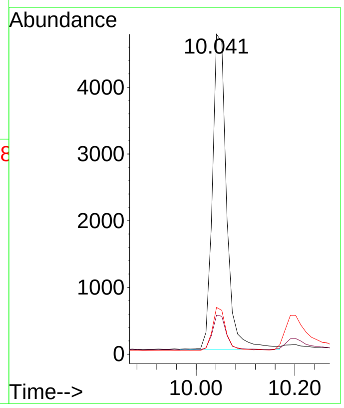


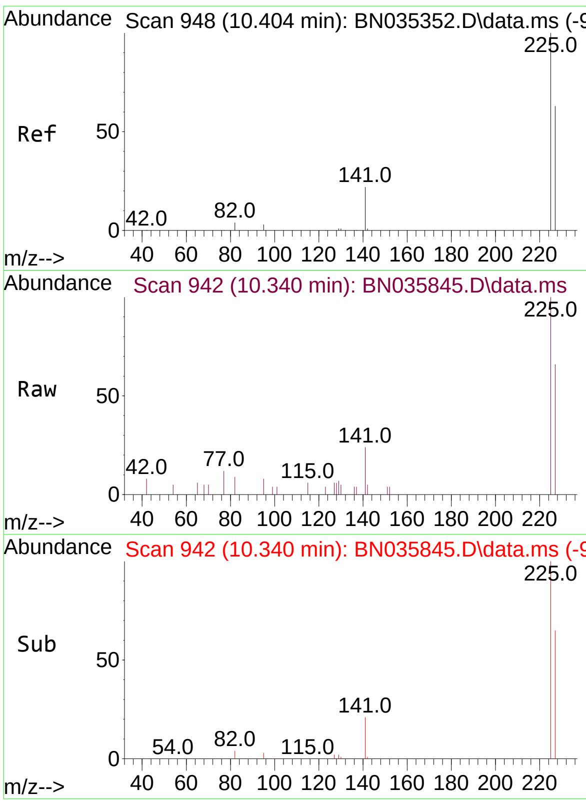
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 9440

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

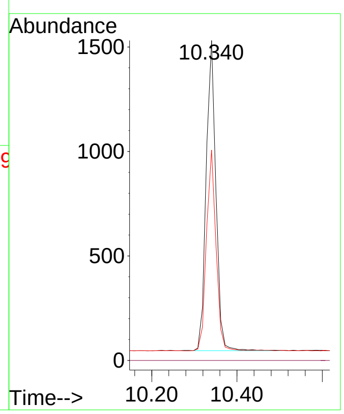


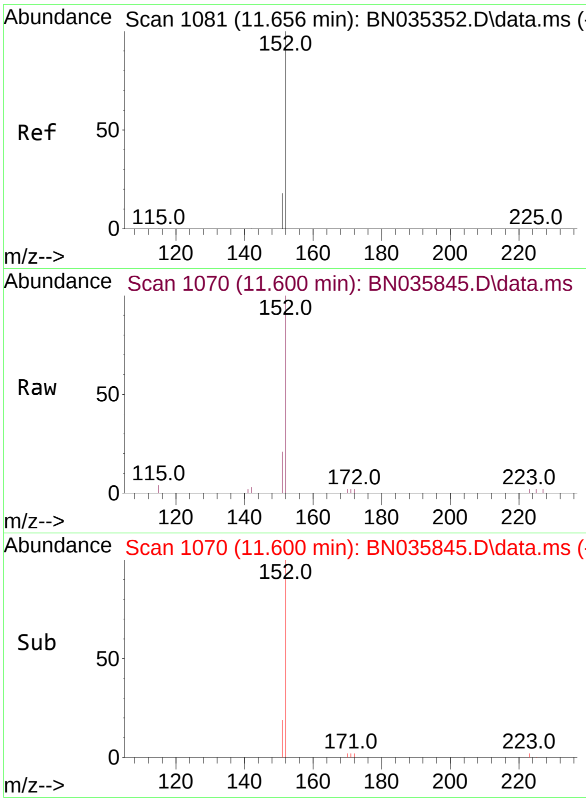


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:225 Resp: 2352

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.3	76.9



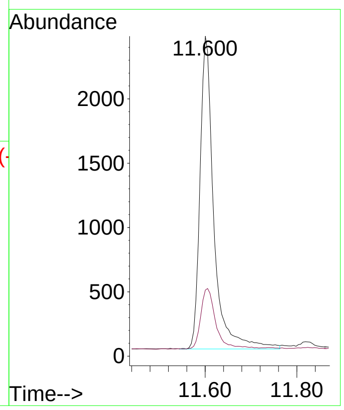


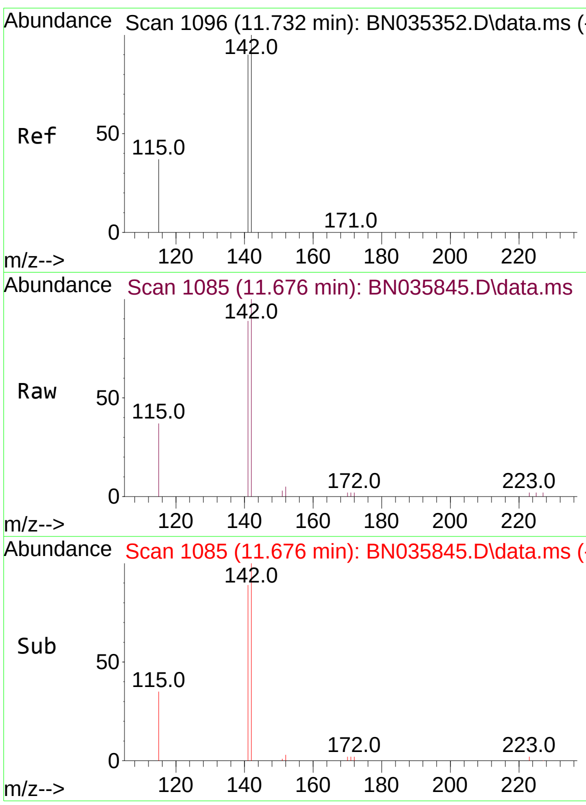
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 10
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5080

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

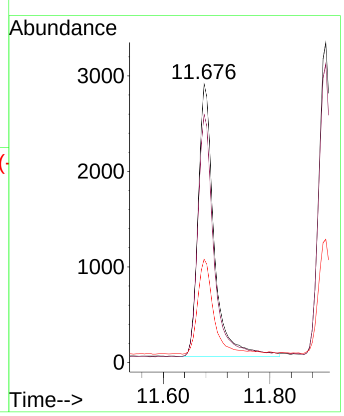


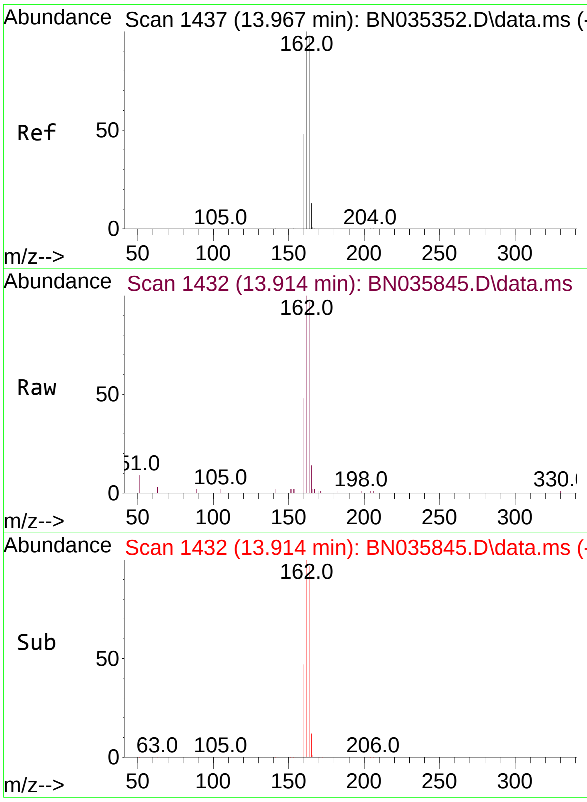


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:142 Resp: 5939

Ion	Ratio	Lower	Upper
142	100		
141	89.1	72.2	108.4
115	37.1	31.4	47.0



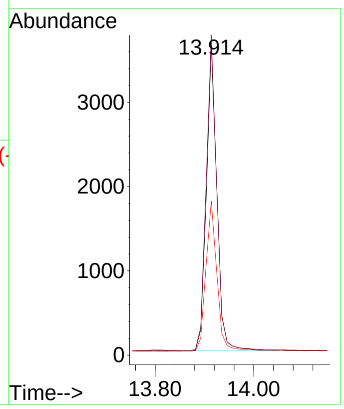


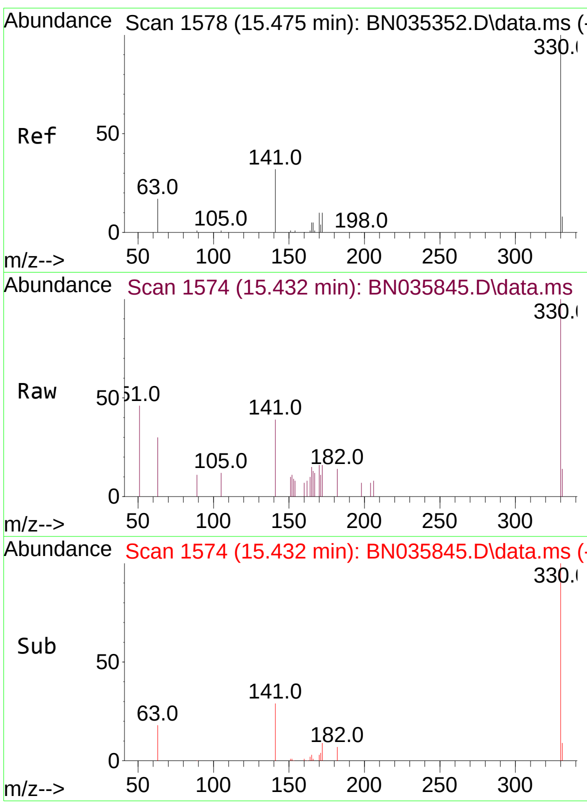
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5387

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.7	40.1	60.1

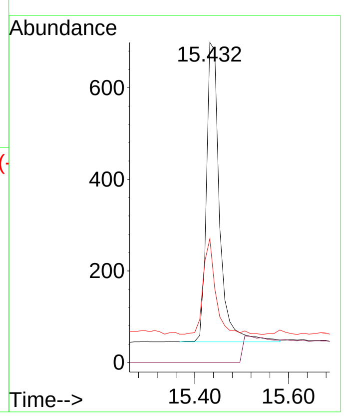


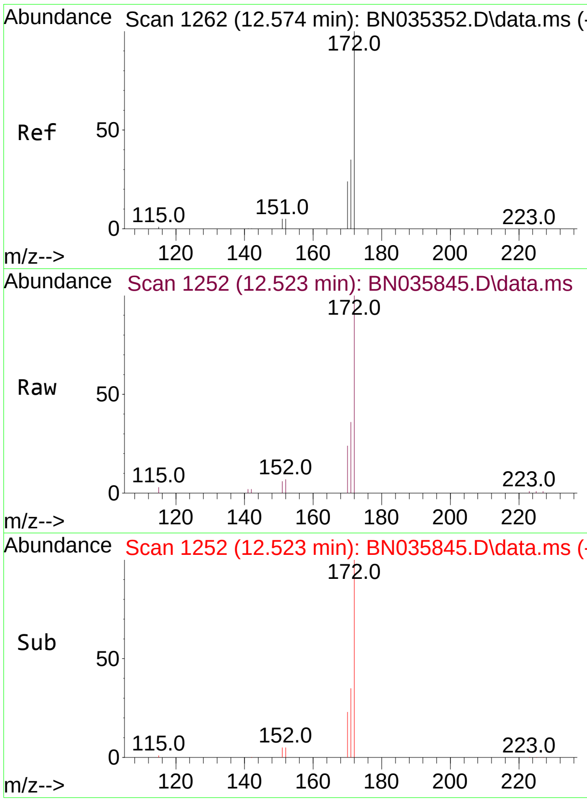


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:330 Resp: 1338

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0



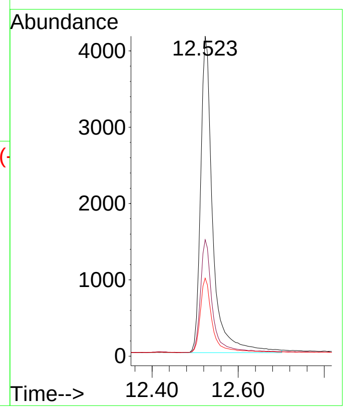


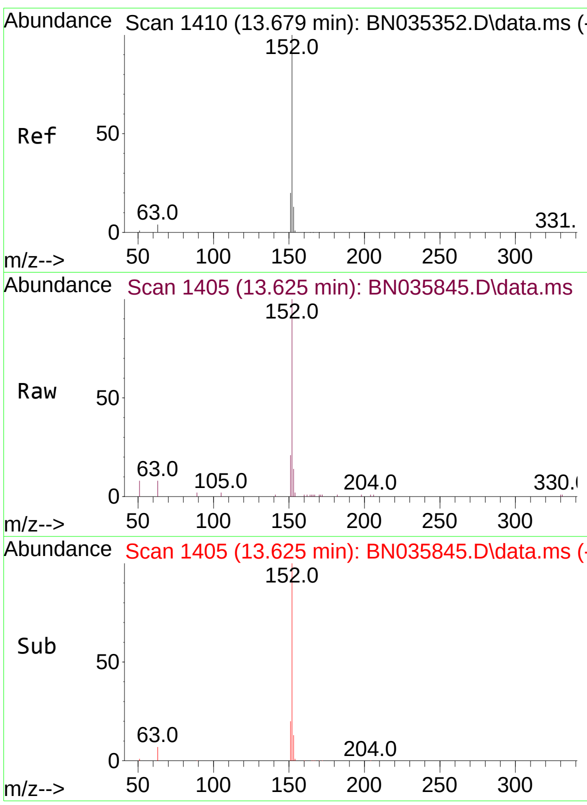
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 8104

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.4	19.8	29.8

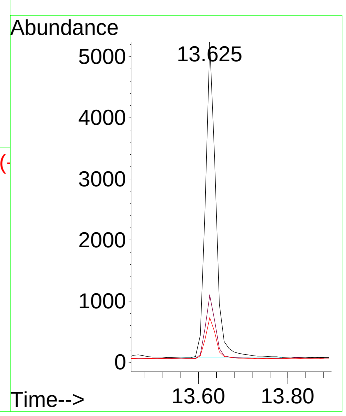


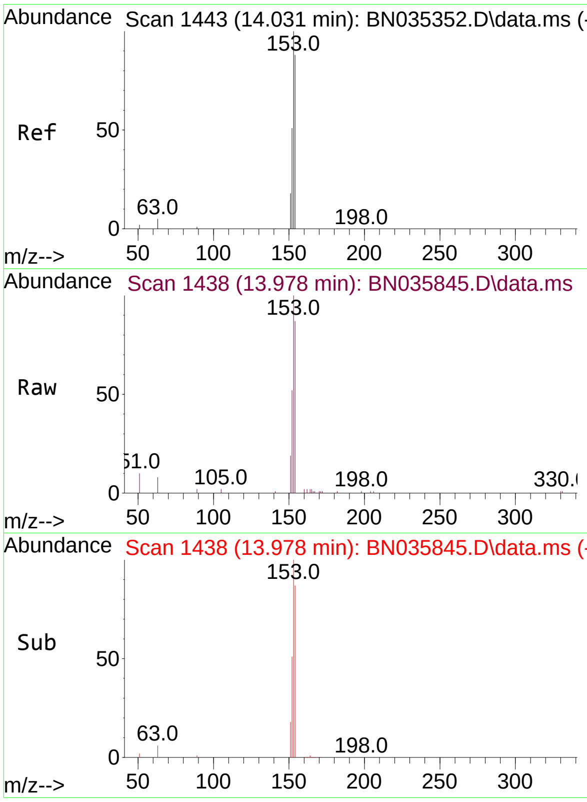


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 8340

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.2	10.4	15.6



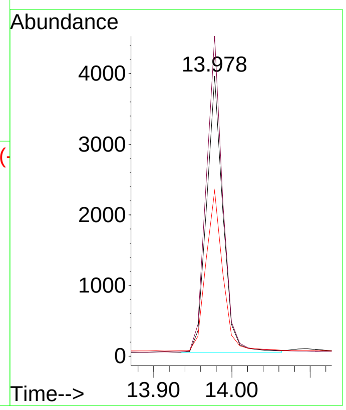


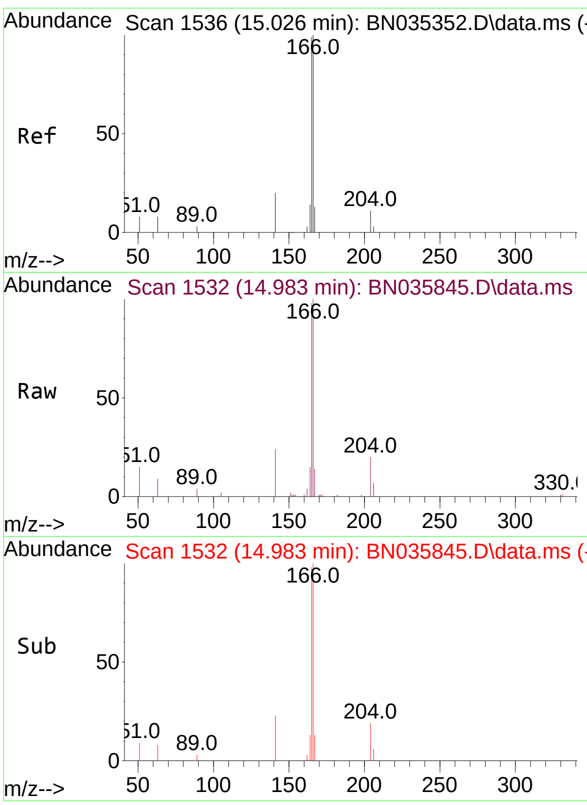
#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5695

Ion	Ratio	Lower	Upper
154	100		
153	116.1	92.6	139.0
152	60.4	49.0	73.6

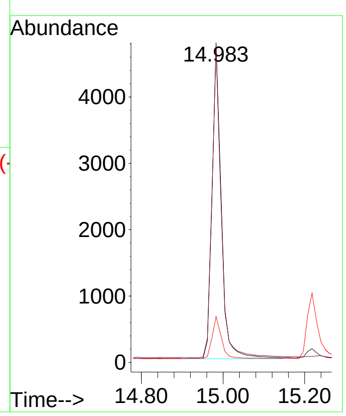


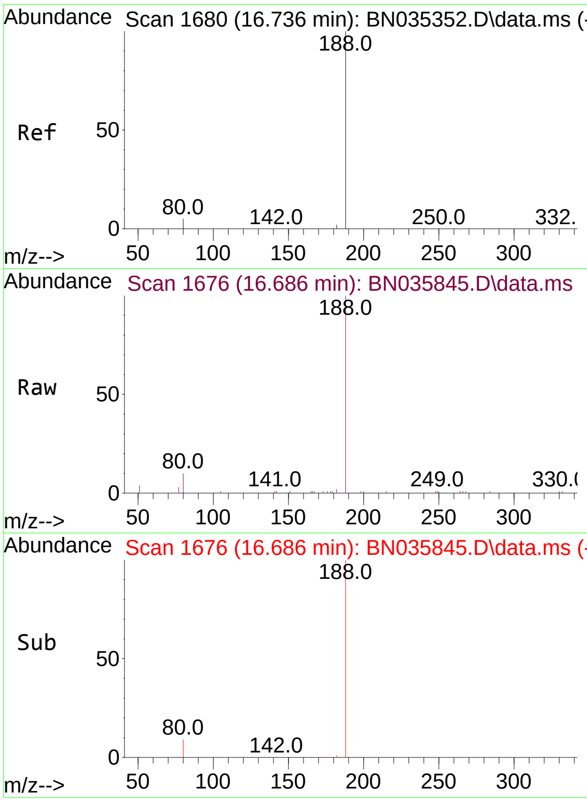


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:166 Resp: 7523

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.7	119.5
167	13.4	10.8	16.2



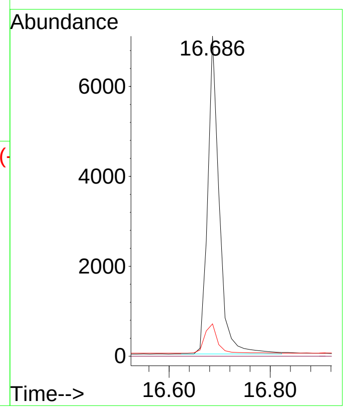


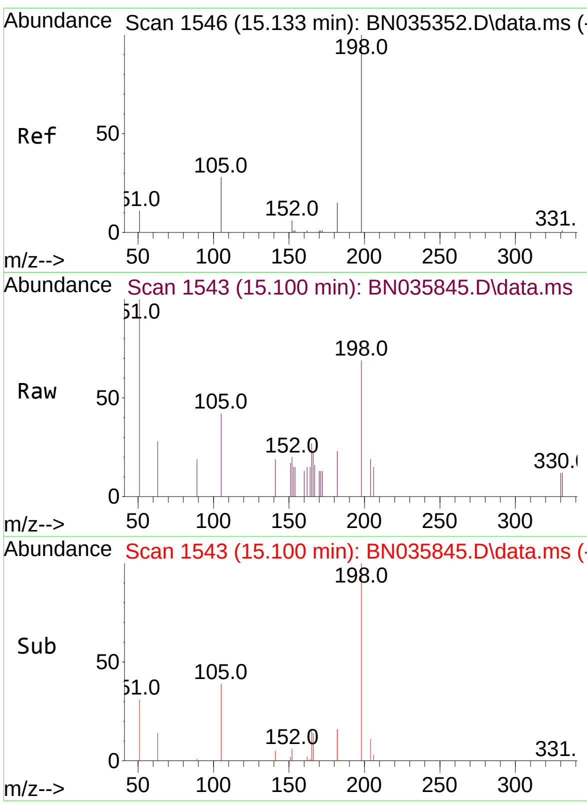
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11262

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.1	4.6	6.8#

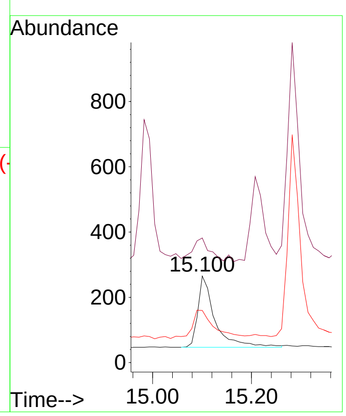


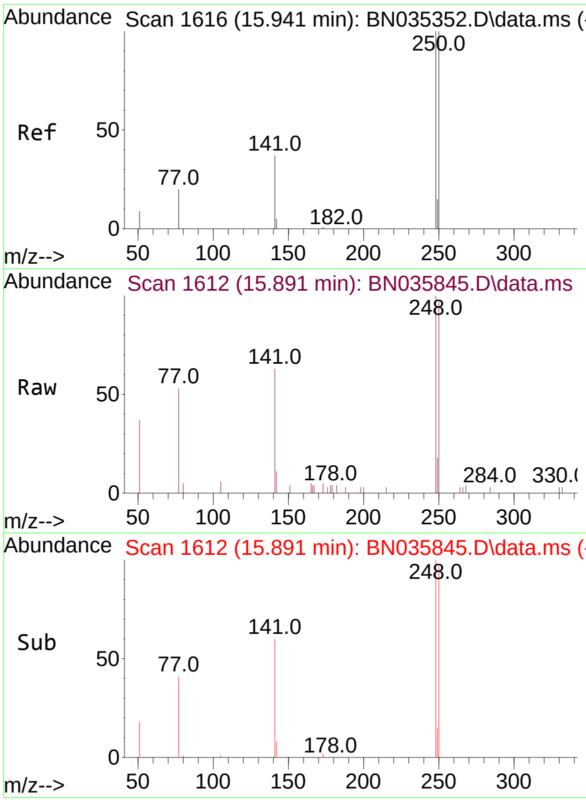


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:198 Resp: 526

Ion	Ratio	Lower	Upper
198	100		
51	144.2	46.5	69.7#
105	60.4	45.3	67.9



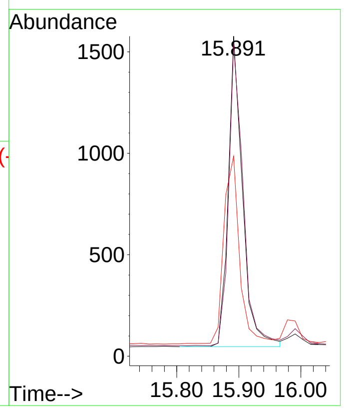


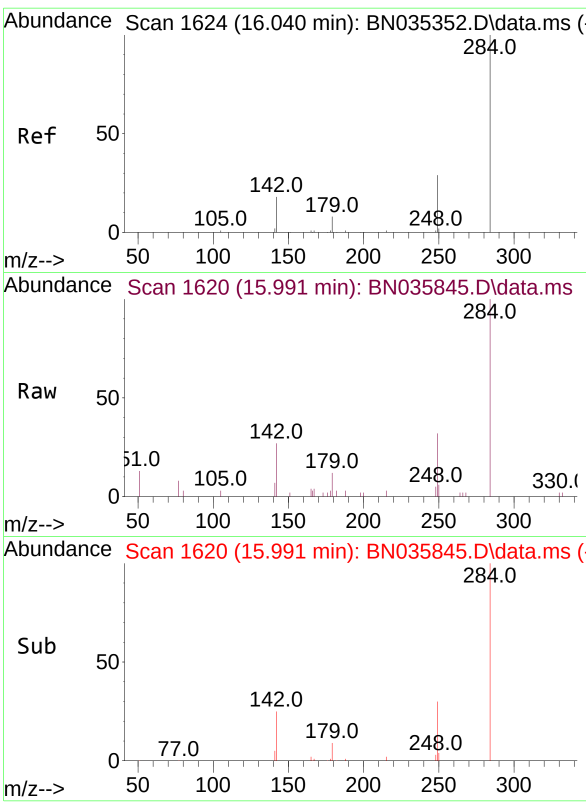
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2443

Ion	Ratio	Lower	Upper
248	100		
250	97.3	80.6	120.8
141	62.5	31.5	47.3#

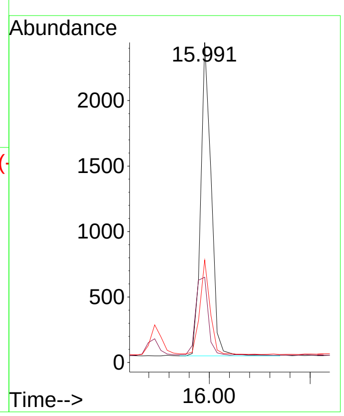


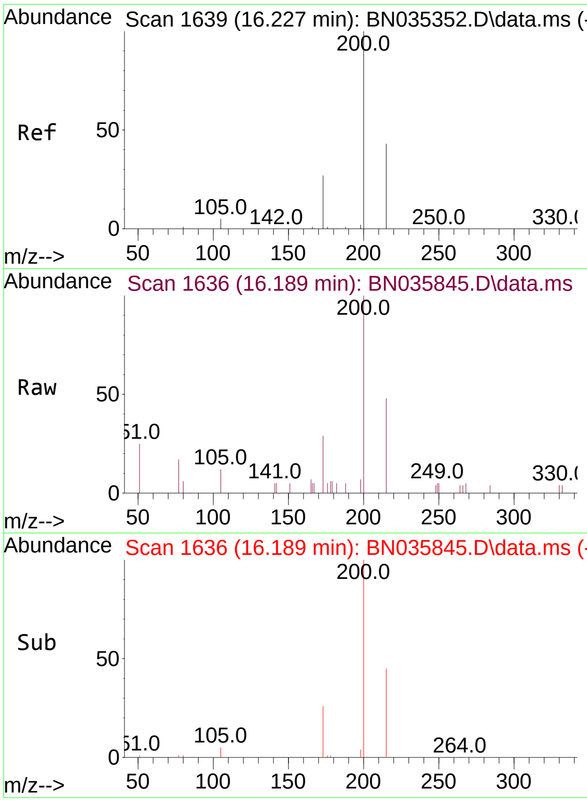


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:284 Resp: 3482

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	28.9	24.6	36.8



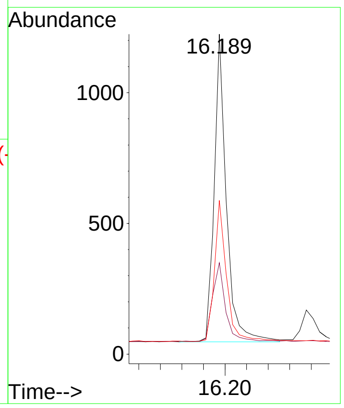


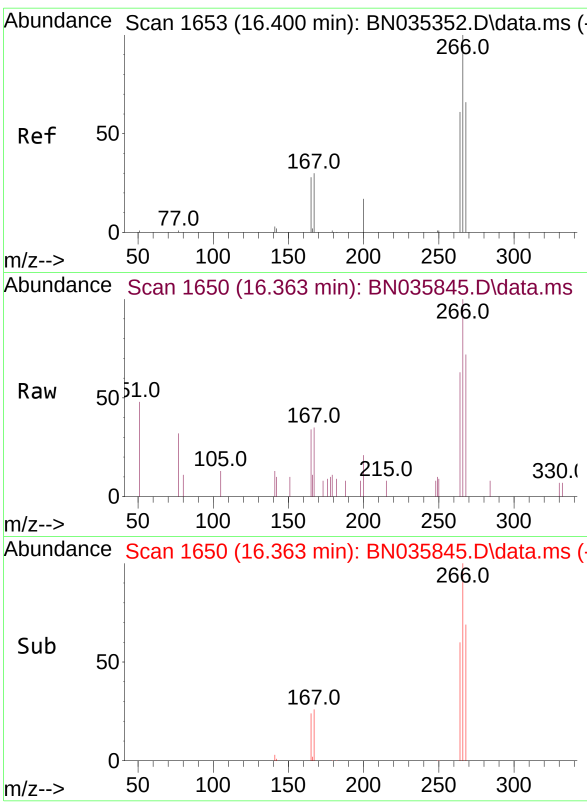
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1843

Ion	Ratio	Lower	Upper
200	100		
173	28.5	24.1	36.1
215	48.0	36.9	55.3

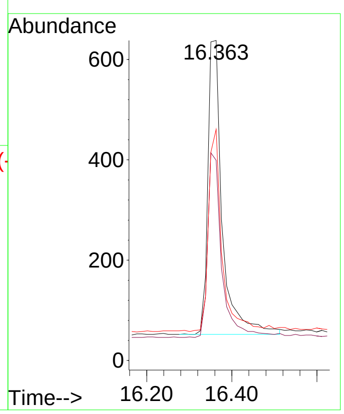


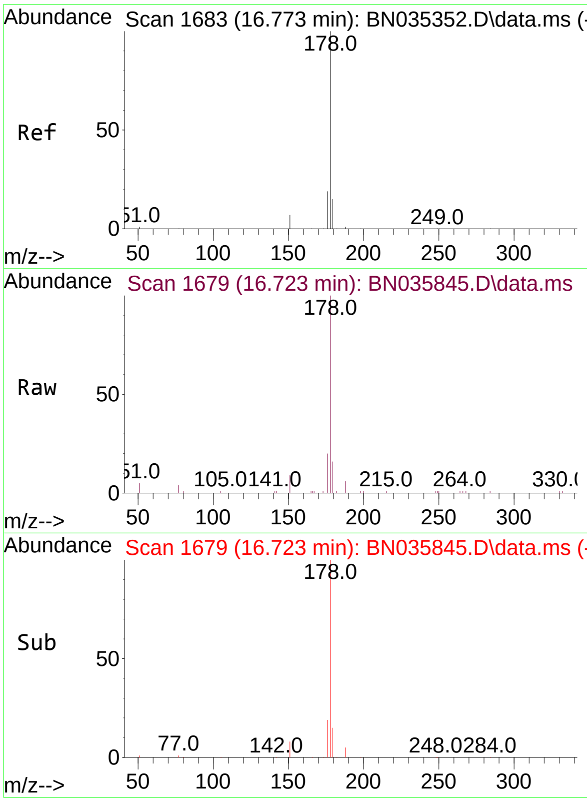


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:266 Resp: 1383

Ion	Ratio	Lower	Upper
266	100		
264	61.3	42.3	63.5
268	63.8	43.3	64.9



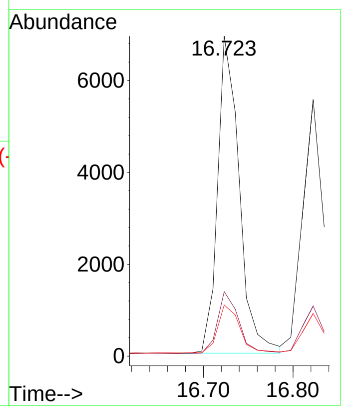


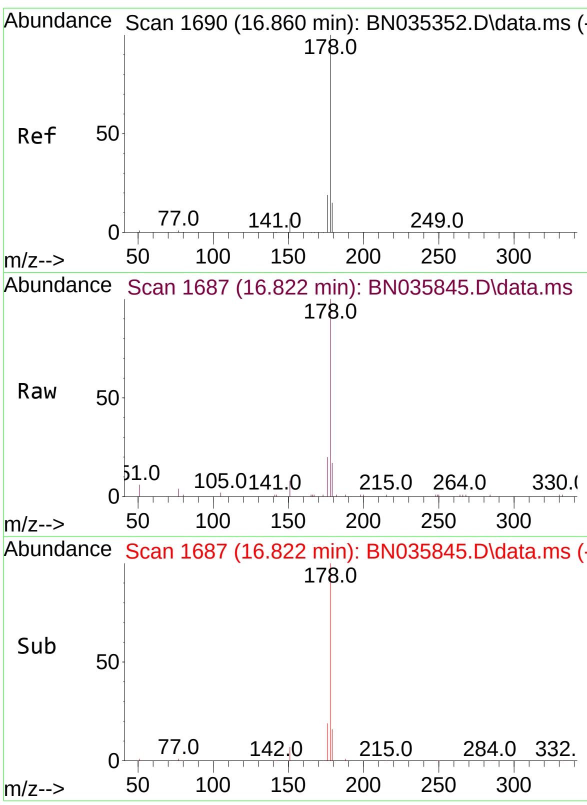
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 11602

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.7	12.3	18.5

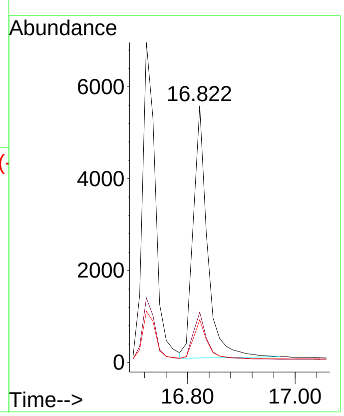


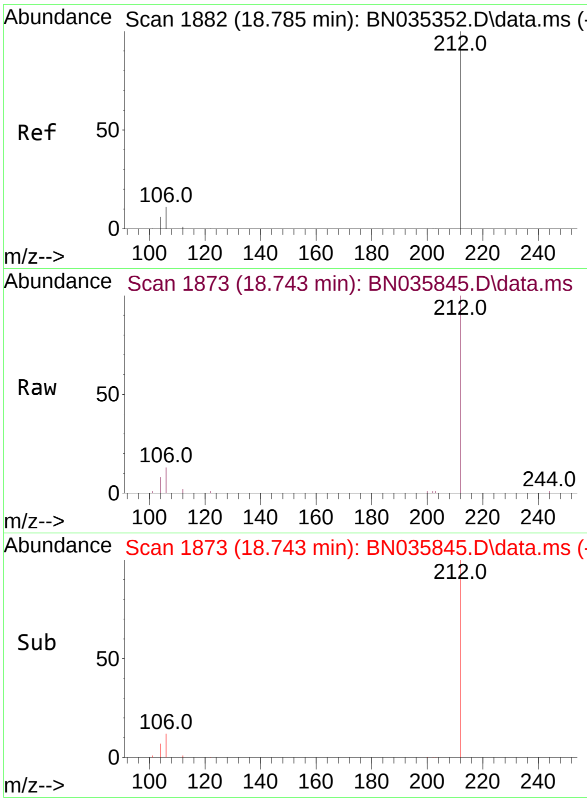


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:178 Resp: 10005

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



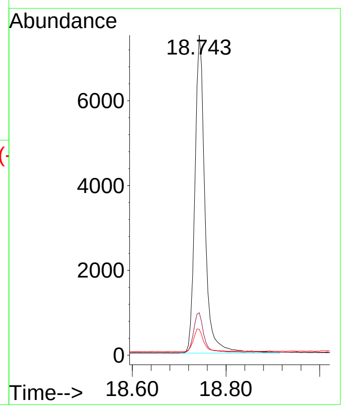


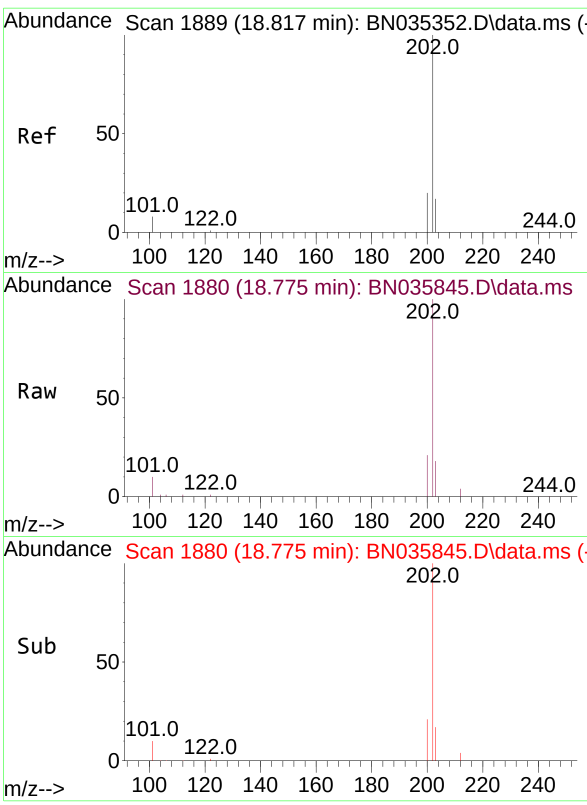
#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11161

Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.4	5.3	7.9

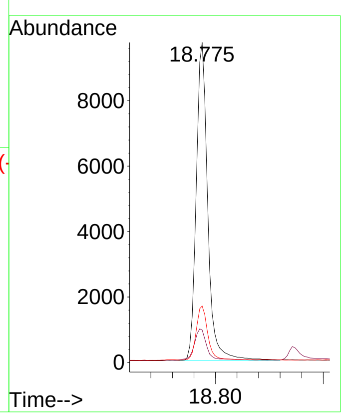


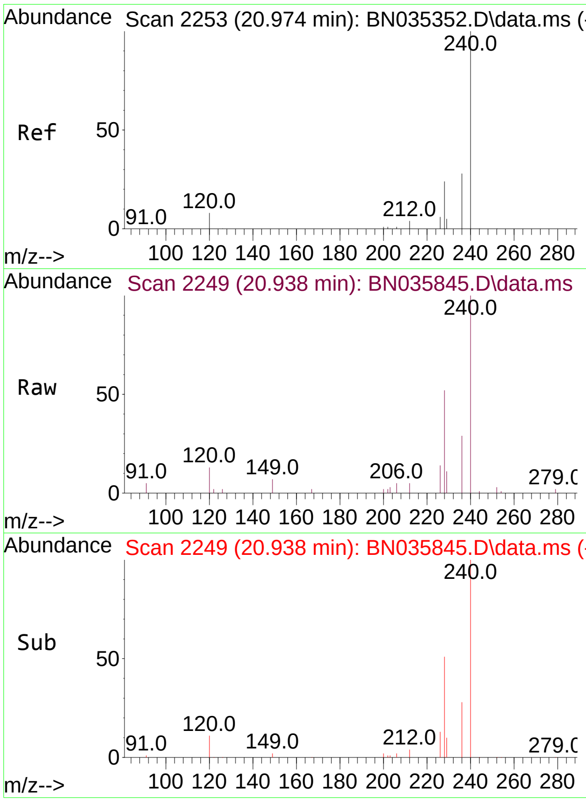


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 14489

Ion	Ratio	Lower	Upper
202	100		
101	10.7	7.4	11.0
203	17.0	13.7	20.5



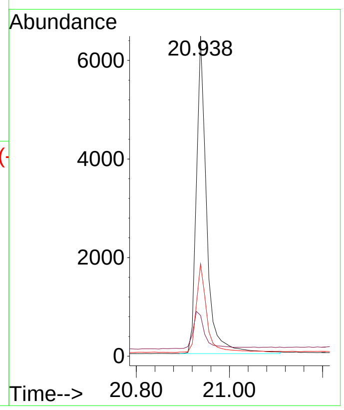


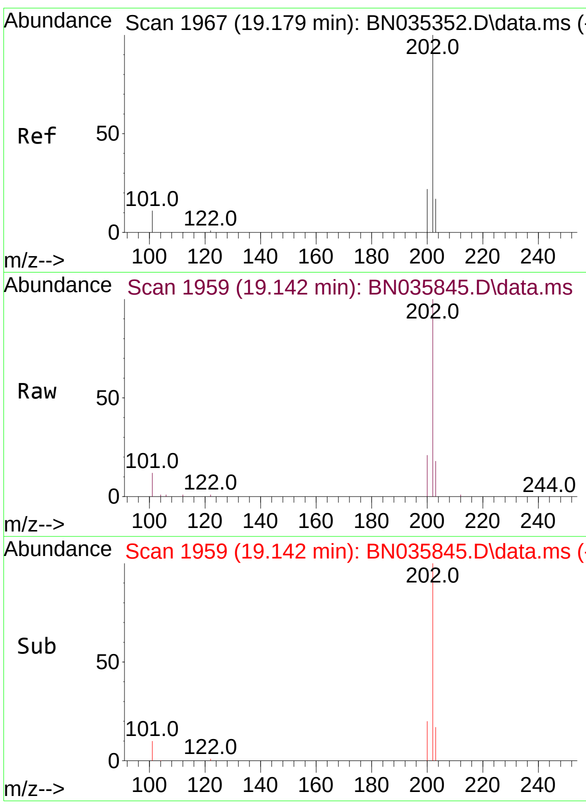
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9932

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	28.9	22.9	34.3

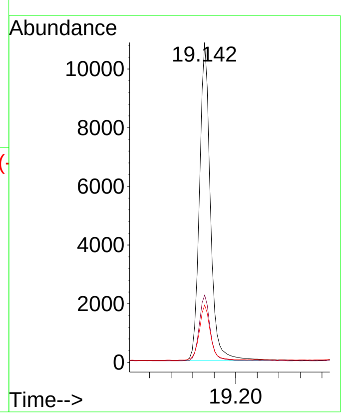


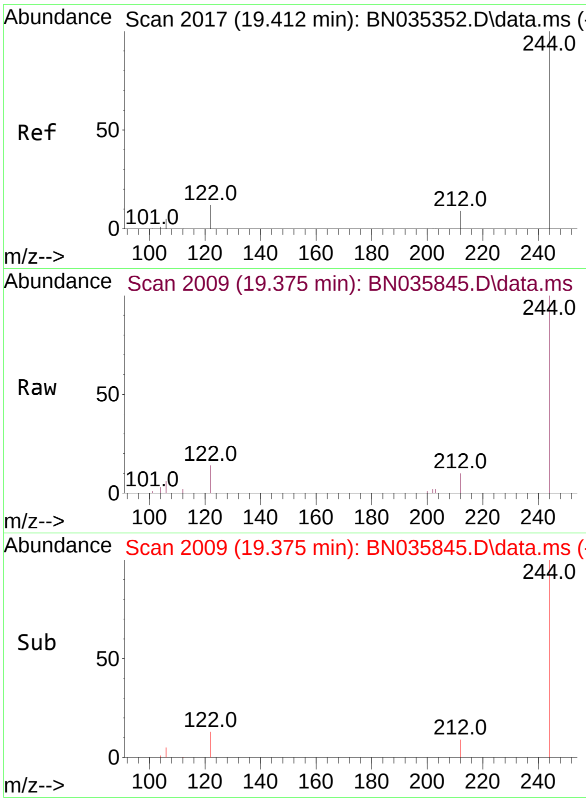


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:202 Resp: 15278

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.9	14.3	21.5



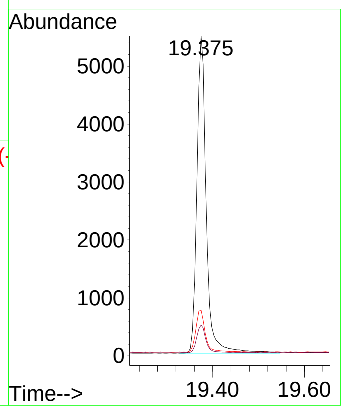


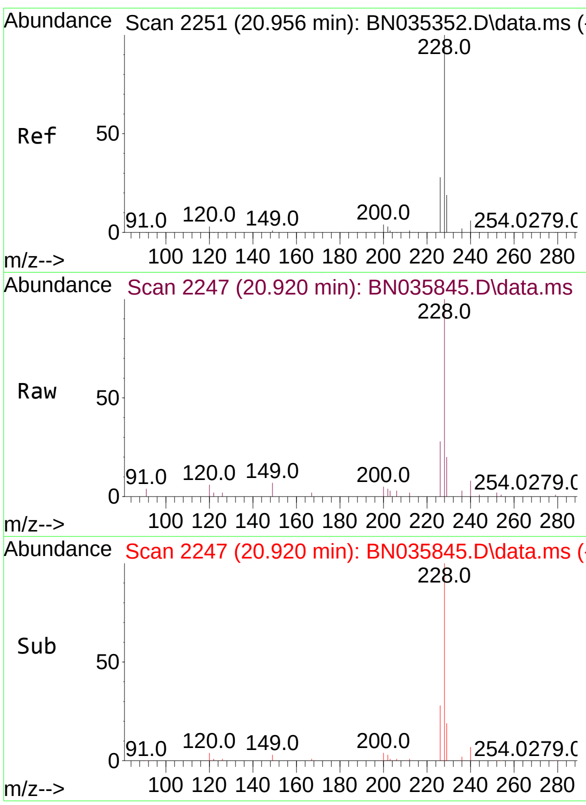
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2(
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 7783

Ion	Ratio	Lower	Upper
244	100		
212	9.7	8.1	12.1
122	14.4	10.3	15.5

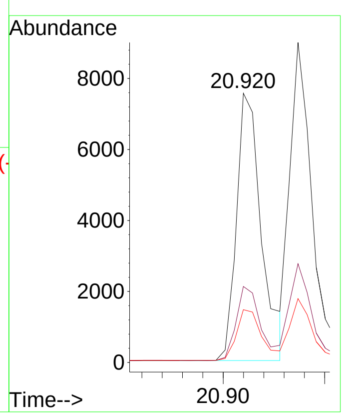


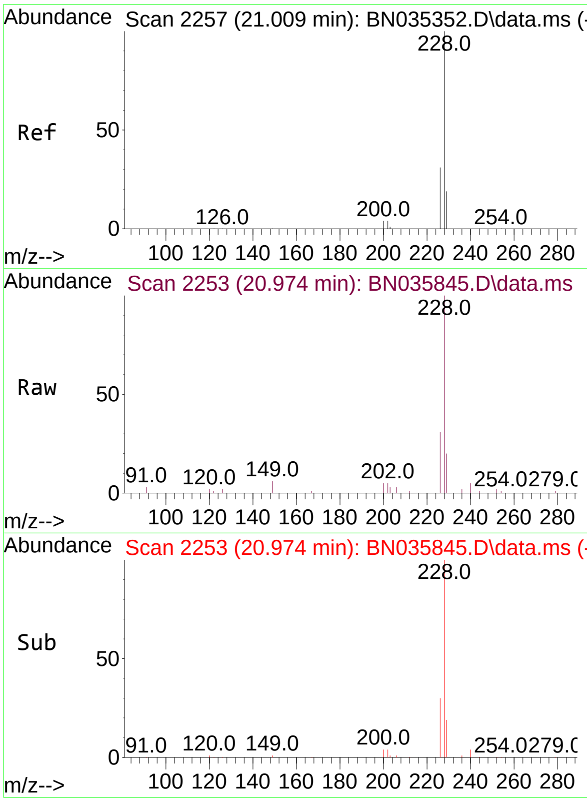


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:228 Resp: 12798

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	19.6	15.8	23.8



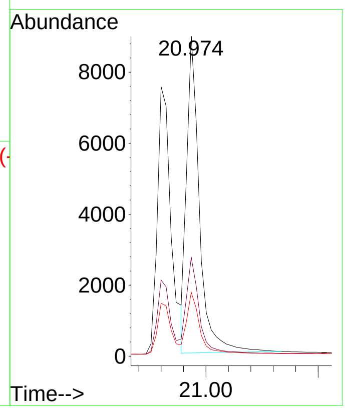


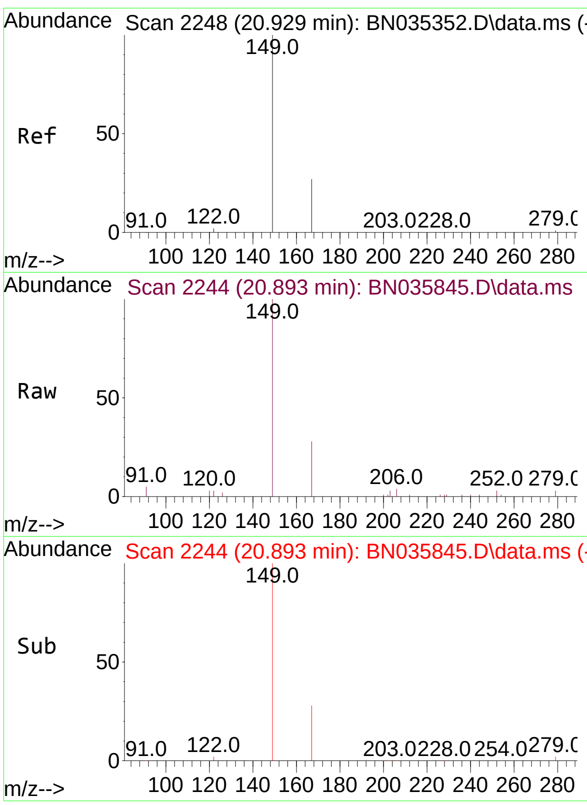
#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14214

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	20.0	15.9	23.9

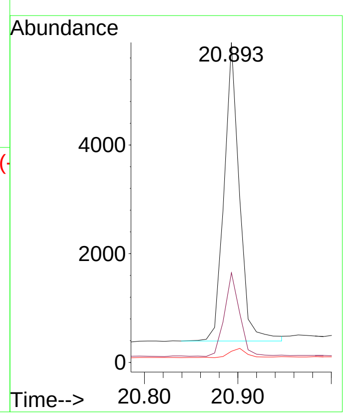


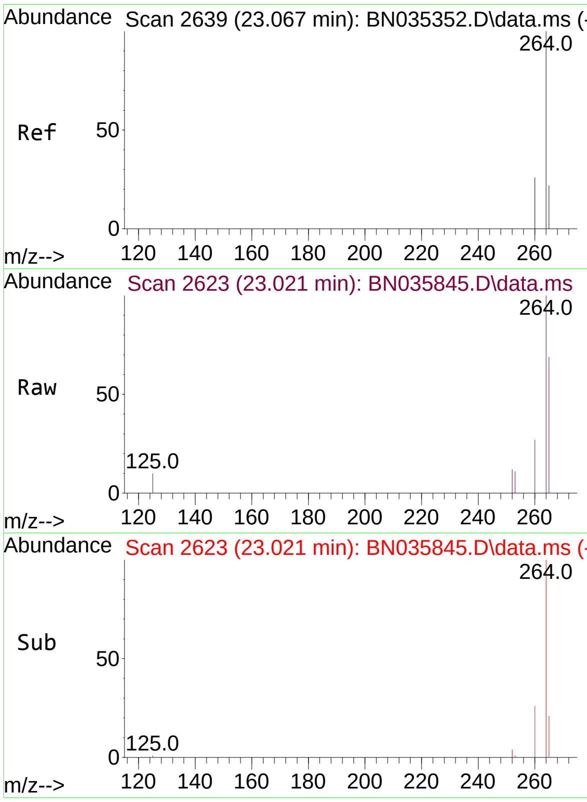


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:149 Resp: 6282

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.4
279	3.4	2.7	4.1





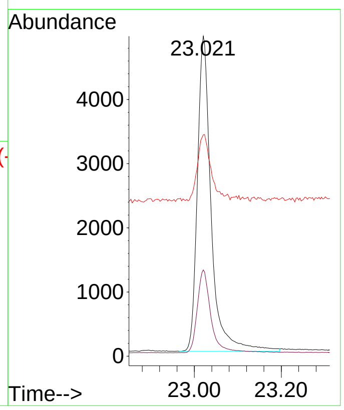
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2(

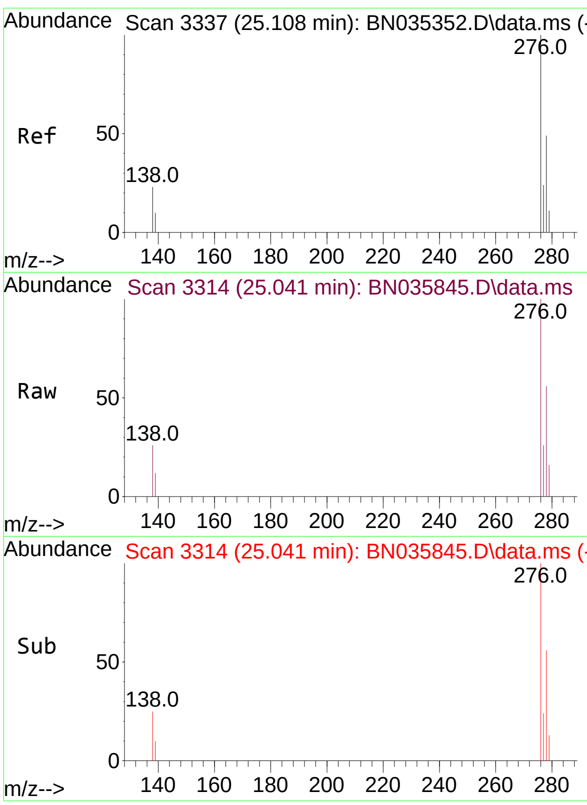
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:264 Resp: 10817

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	69.2	40.2	60.4#

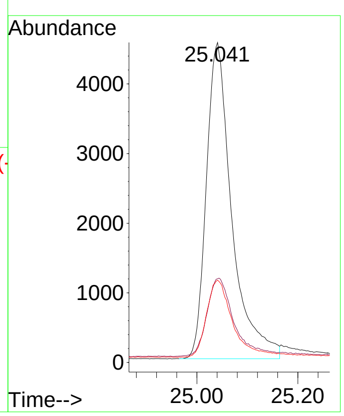


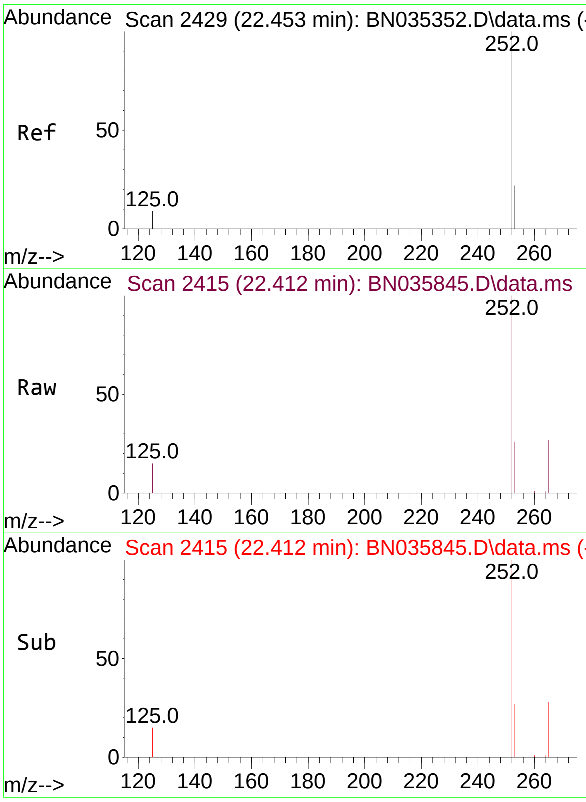


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:276 Resp: 15946

Ion	Ratio	Lower	Upper
276	100		
138	26.4	19.4	29.0
277	25.7	19.8	29.6



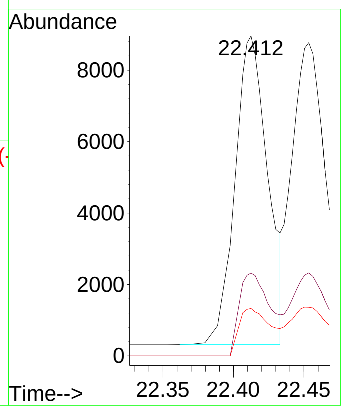


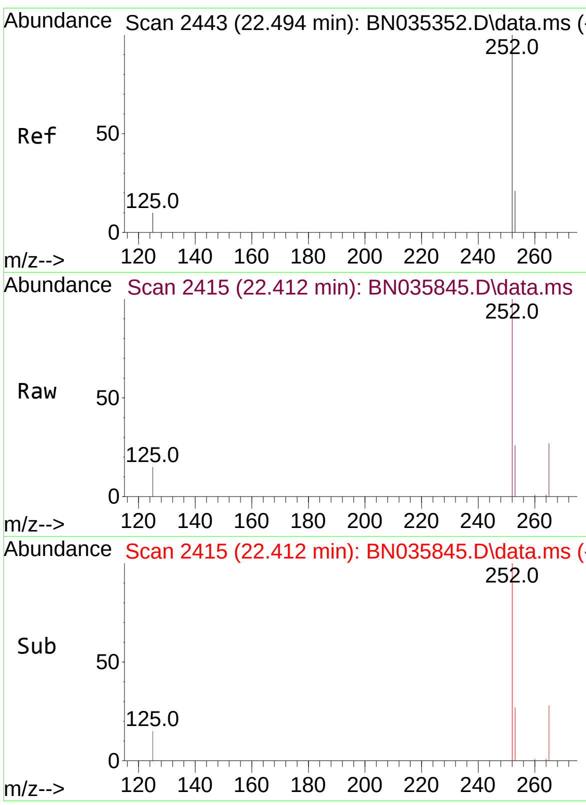
#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.9	9.6	14.4#

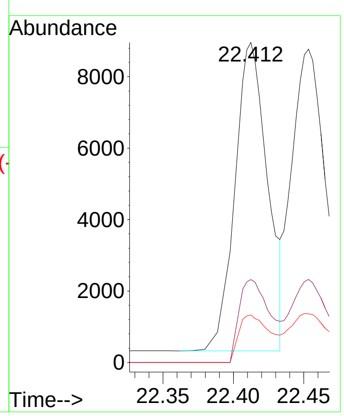


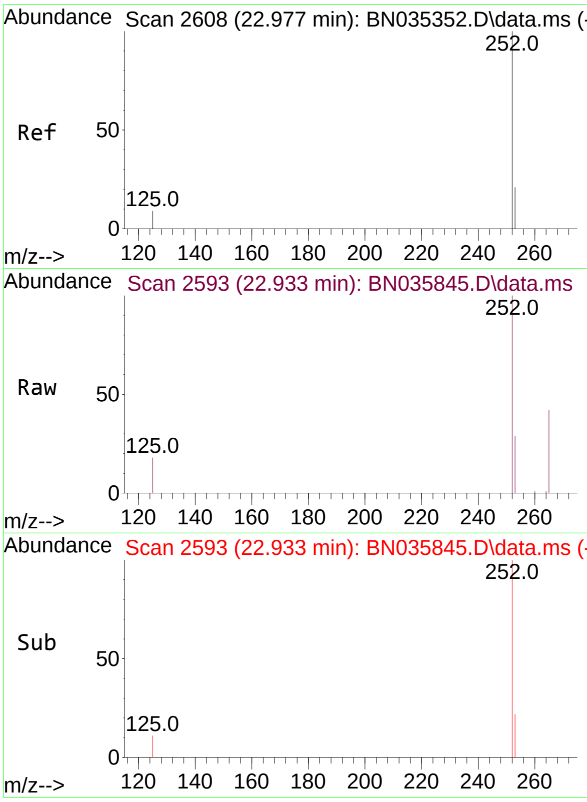


#38
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 19565

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	14.9	10.2	15.4



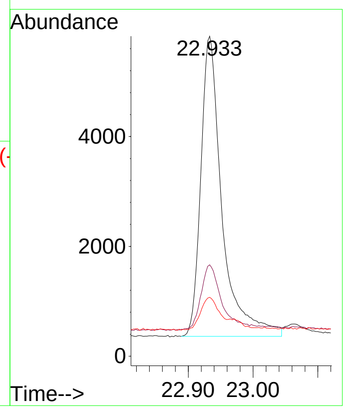


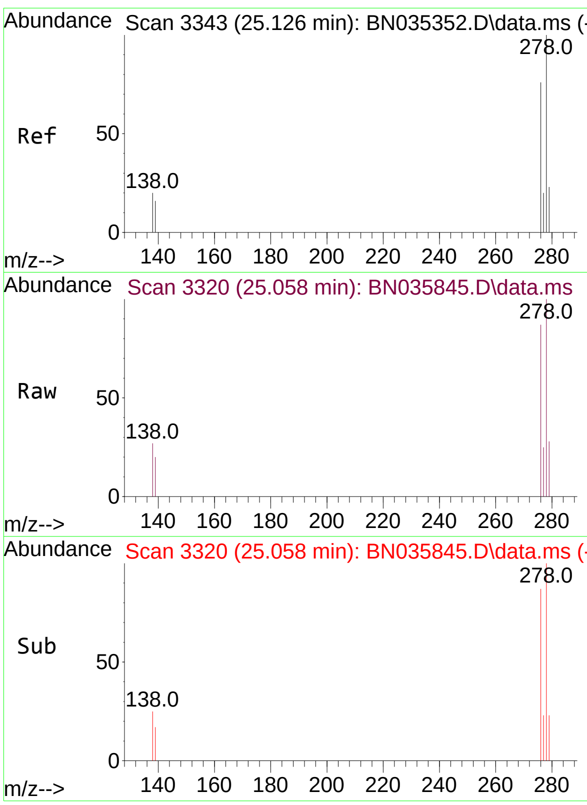
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 12458

Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3#

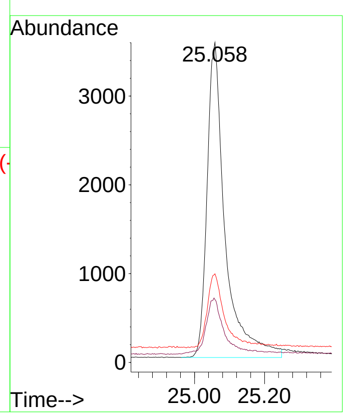


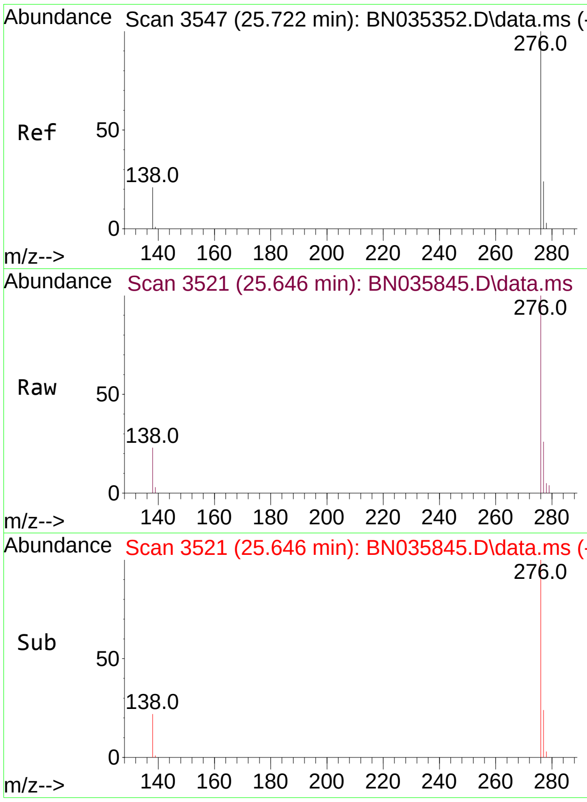


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:278 Resp: 12678

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.7	20.5	30.7



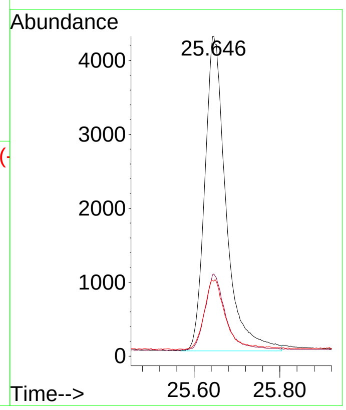


#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3!
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 14614

Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.9	29.9
138	23.5	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035850.D
Acq On : 26 Dec 2024 13:07
Operator : RC/JU
Sample : P5374-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Quant Time: Dec 27 00:40:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

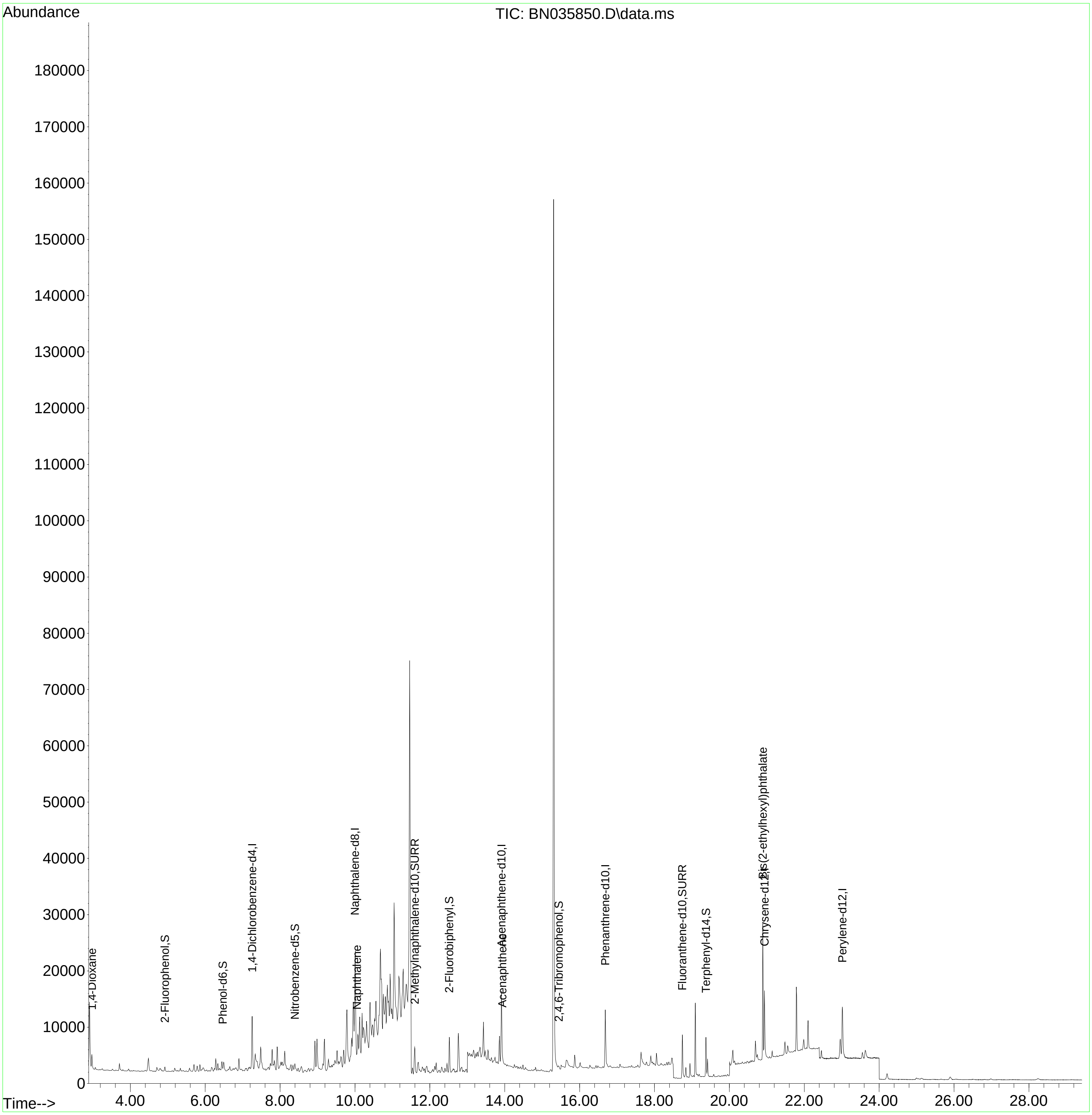
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3717	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	9841	0.400	ng	#-0.02
13) Acenaphthene-d10	13.914	164	7032	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	14733	0.400	ng	#-0.01
29) Chrysene-d12	20.938	240	12545	0.400	ng	#-0.02
35) Perylene-d12	23.018	264	12258	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	452	0.049	ng	-0.01
5) Phenol-d6	6.470	99	406	0.036	ng	-0.02
8) Nitrobenzene-d5	8.397	82	1782	0.296	ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	4322	0.281	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	397	0.080	ng	-0.01
15) 2-Fluorobiphenyl	12.518	172	5672	0.213	ng	-0.03
27) Fluoranthene-d10	18.743	212	9176	0.220	ng	-0.02
31) Terphenyl-d14	19.375	244	7214	0.292	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1795	0.505	ng	# 95
9) Naphthalene	10.052	128	750	0.029	ng	# 60
17) Acenaphthene	13.935	154	618	0.032	ng	# 64
34) Bis(2-ethylhexyl)phtha...	20.893	149	19704	1.137	ng	98

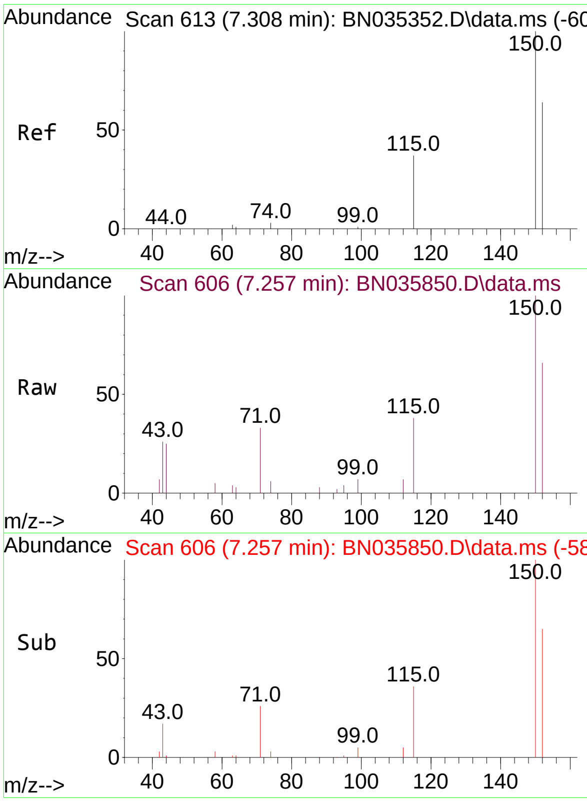
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035850.D
Acq On   : 26 Dec 2024 13:07
Operator : RC/JU
Sample   : P5374-03
Misc   :
ALS Vial : 7   Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Quant Time: Dec 27 00:40:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



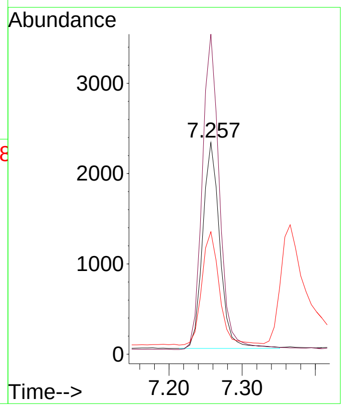


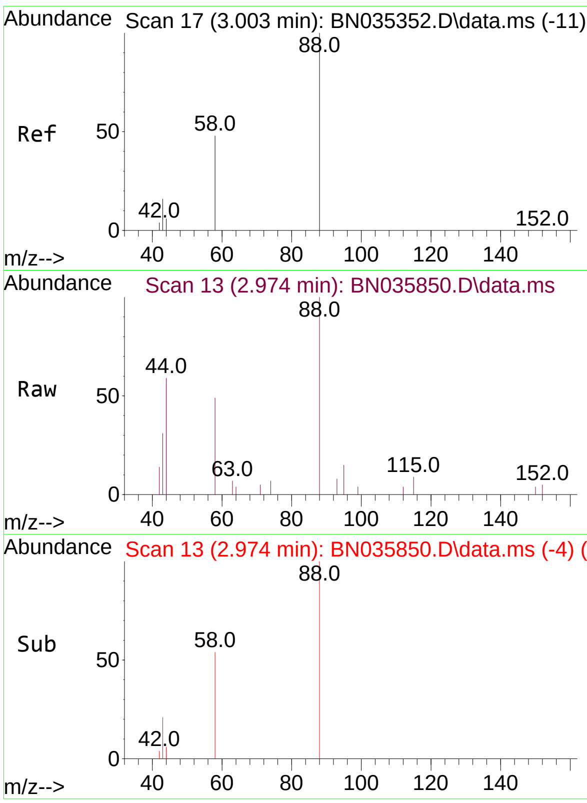
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 60
Delta R.T. -0.015 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:152 Resp: 3717

Ion	Ratio	Lower	Upper
152	100		
150	151.2	124.0	186.0
115	57.8	49.6	74.4

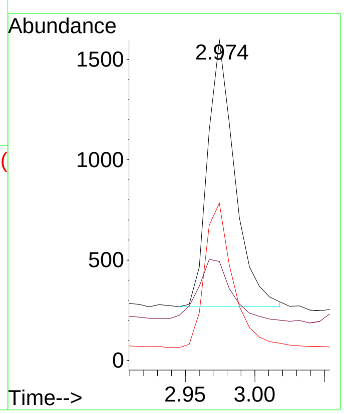


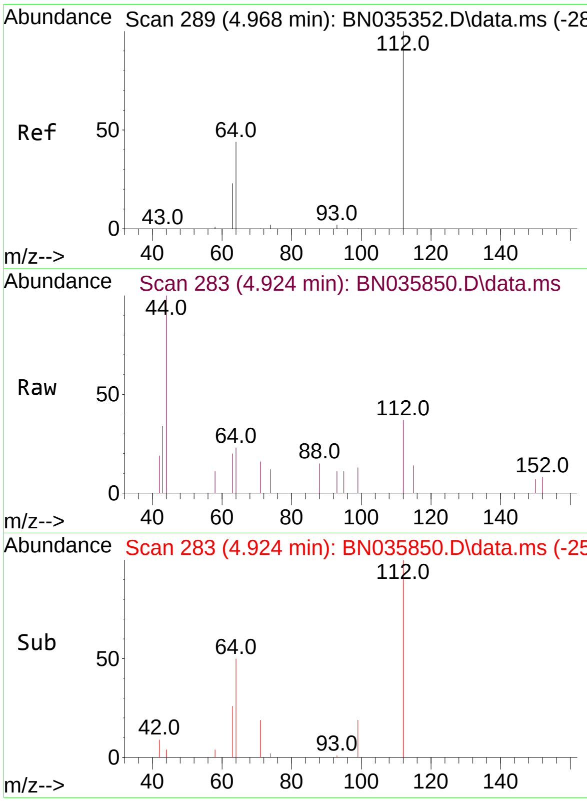


#2
1,4-Dioxane
Concen: 0.505 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion: 88 Resp: 1795

Ion	Ratio	Lower	Upper
88	100		
43	27.9	17.2	25.8#
58	56.4	44.5	66.7



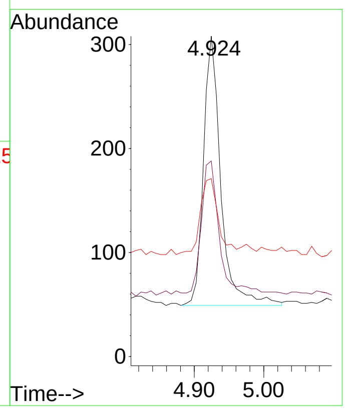


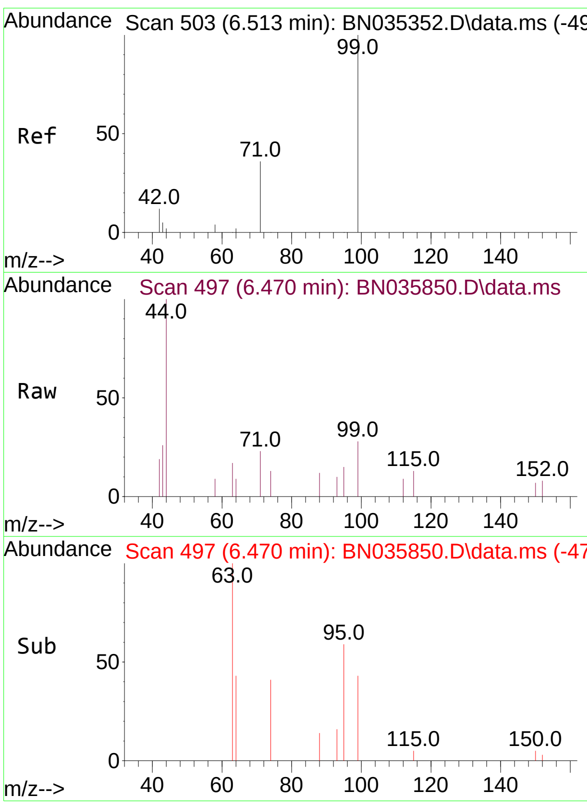
#4
2-Fluorophenol
Concen: 0.049 ng
RT: 4.924 min Scan# 28
Delta R.T. -0.015 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:112 Resp: 452

Ion	Ratio	Lower	Upper
112	100		
64	50.9	39.8	59.8
63	26.5	21.0	31.6

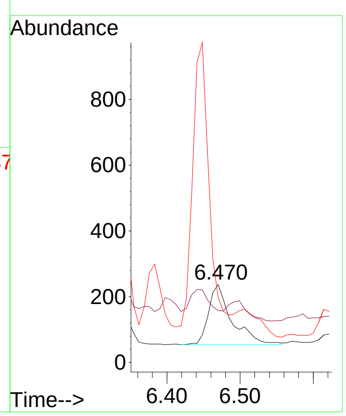


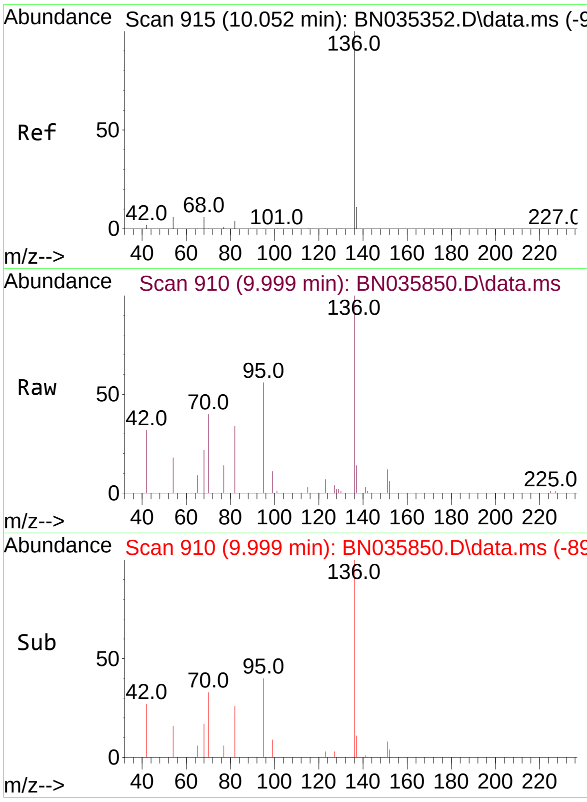


#5
Phenol-d6
Concen: 0.036 ng
RT: 6.470 min Scan# 497
Delta R.T. -0.022 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion: 99 Resp: 406

Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.4	17.2#
71	0.0	29.3	43.9#



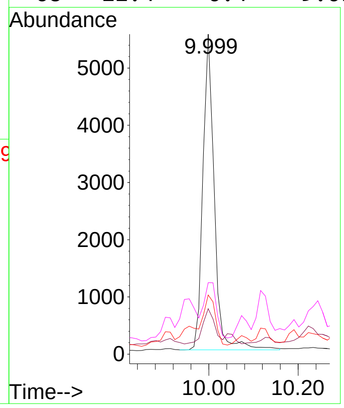


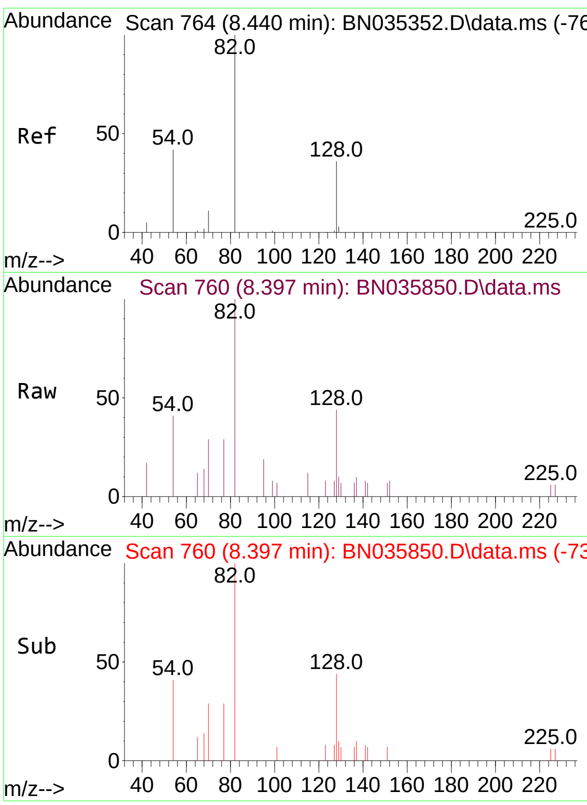
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:136 Resp: 9841

Ion	Ratio	Lower	Upper
136	100		
137	14.2	10.2	15.2
54	18.5	6.1	9.1#
68	22.4	6.4	9.6#

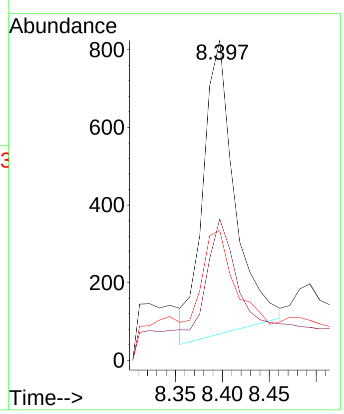


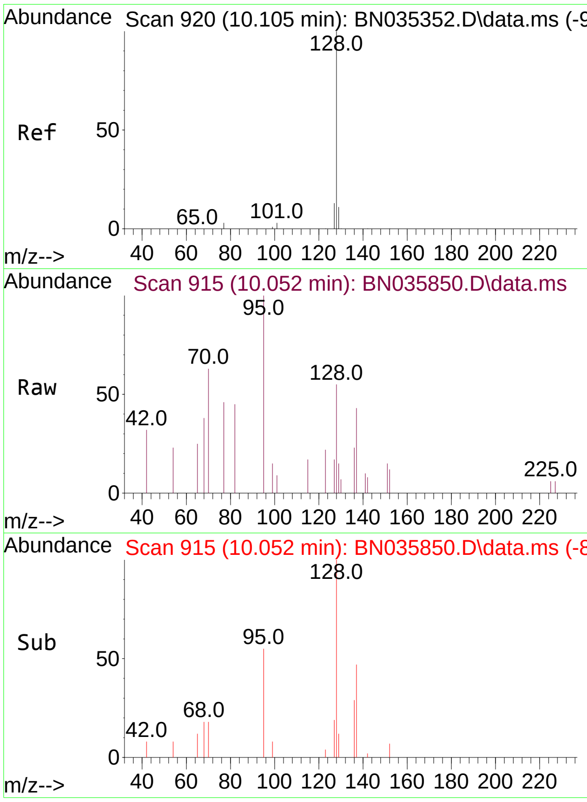


#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion: 82 Resp: 1782

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.4	50.0
54	40.7	36.7	55.1





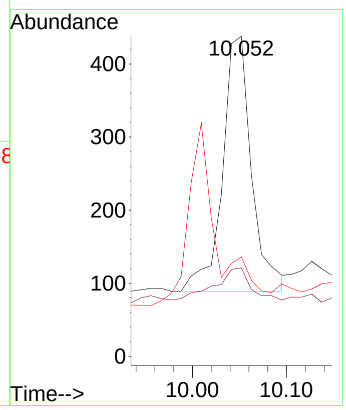
#9
Naphthalene
Concen: 0.029 ng
RT: 10.052 min Scan# 9

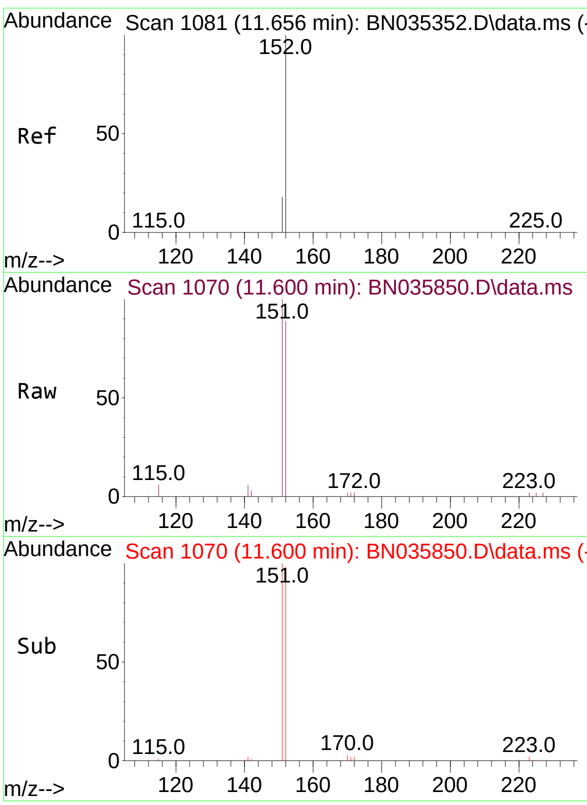
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Delta R.T. -0.011 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:128 Resp: 750

Ion	Ratio	Lower	Upper
128	100		
129	27.6	9.8	14.6#
127	31.1	11.4	17.2#

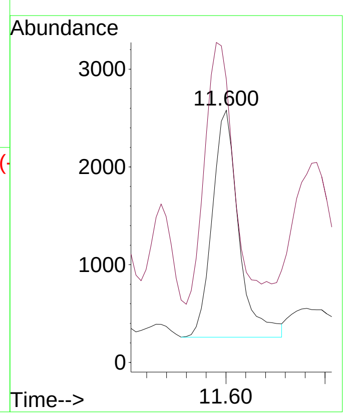


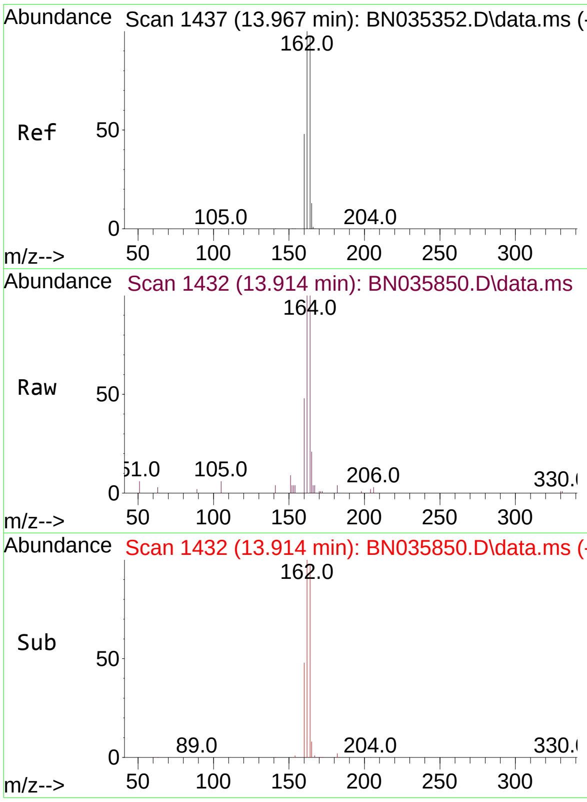


#11
2-Methylnaphthalene-d10
Concen: 0.281 ng
RT: 11.600 min Scan# 1070
Delta R.T. -0.020 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:152 Resp: 4322

Ion	Ratio	Lower	Upper
152	100		
151	126.7	16.6	25.0#





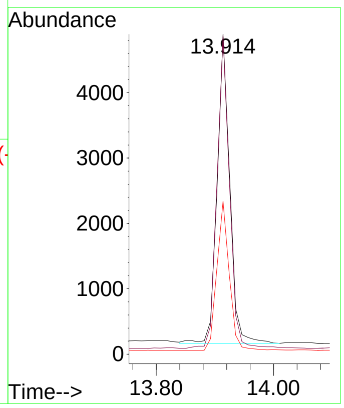
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14

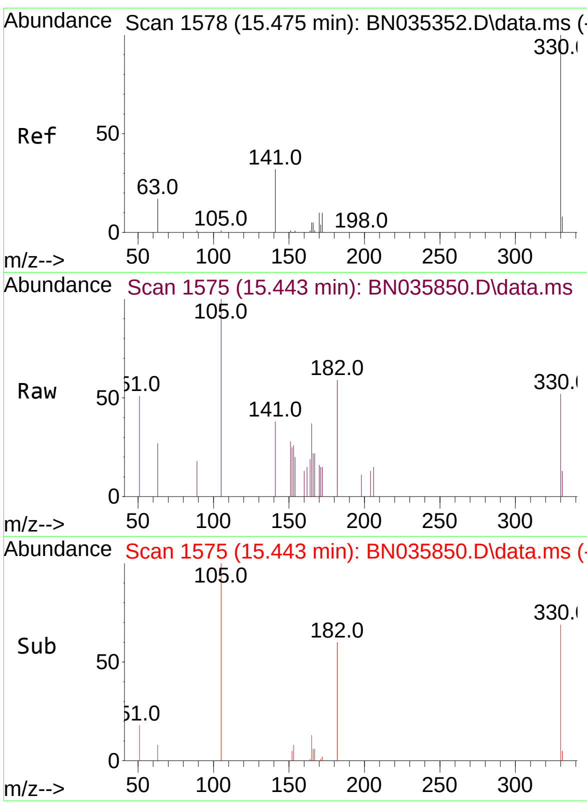
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Delta R.T. -0.021 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:164 Resp: 7032

Ion	Ratio	Lower	Upper
164	100		
162	99.7	82.2	123.2
160	47.8	40.1	60.1

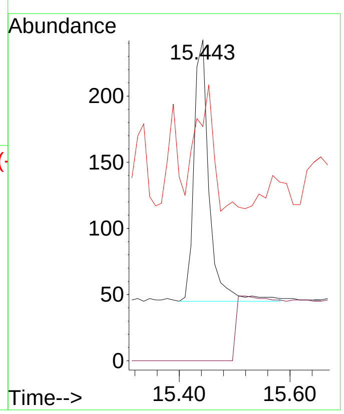


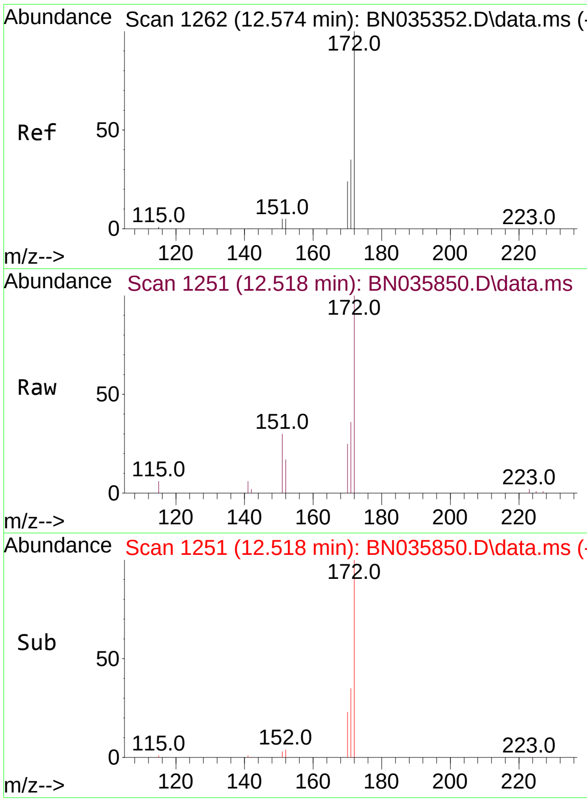


#14
2,4,6-Tribromophenol
Concen: 0.080 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:330 Resp: 397

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	46.9	26.6	40.0#



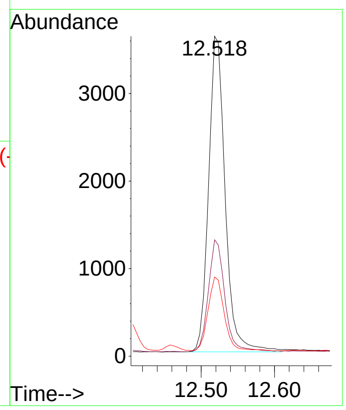


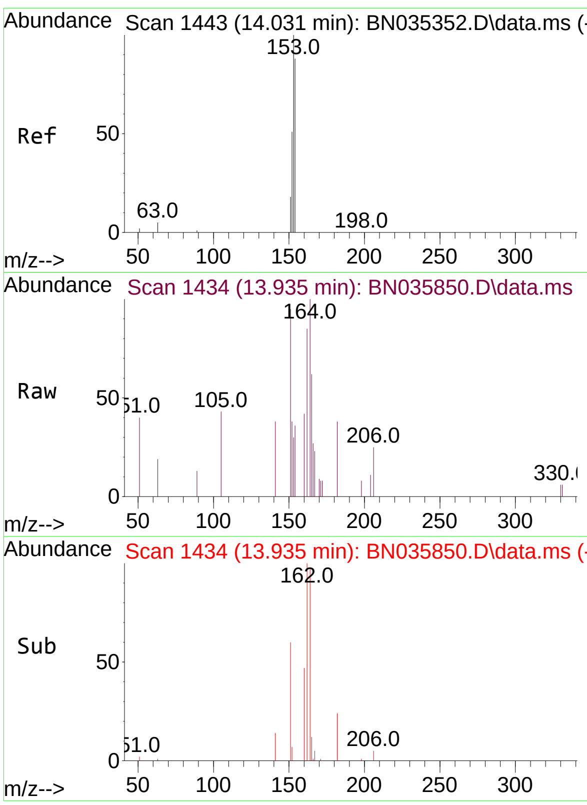
#15
2-Fluorobiphenyl
Concen: 0.213 ng
RT: 12.518 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:172 Resp: 5672

Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	24.7	19.8	29.8

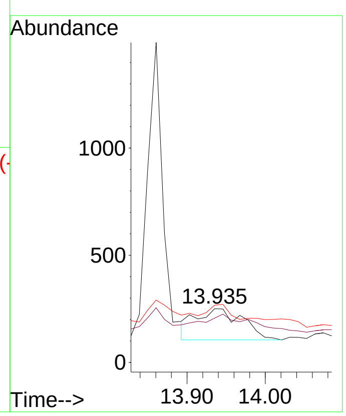


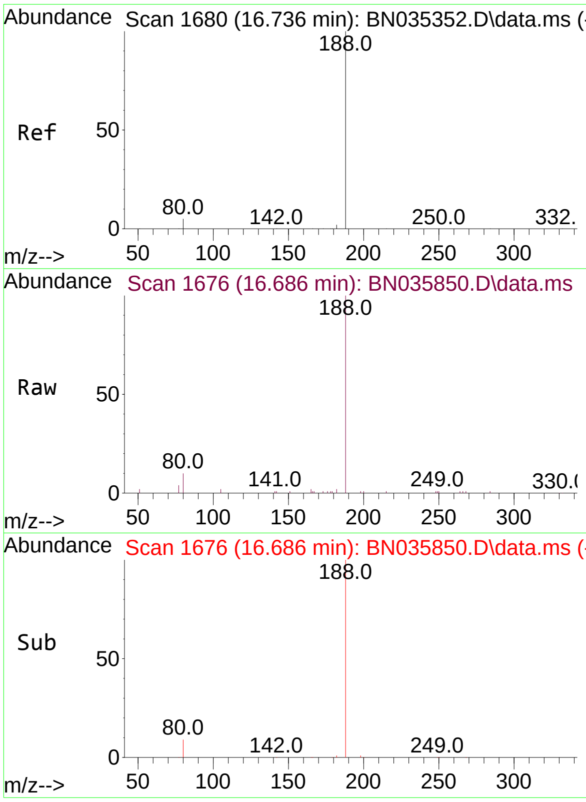


#17
Acenaphthene
Concen: 0.032 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.064 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:154 Resp: 618

Ion	Ratio	Lower	Upper
154	100		
153	59.9	92.6	139.0#
152	56.0	49.0	73.6

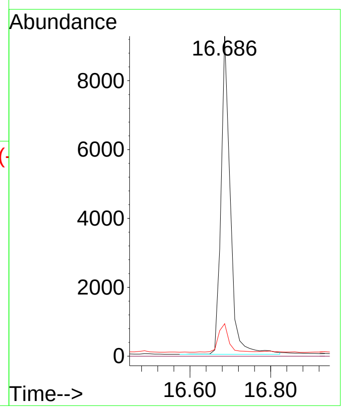


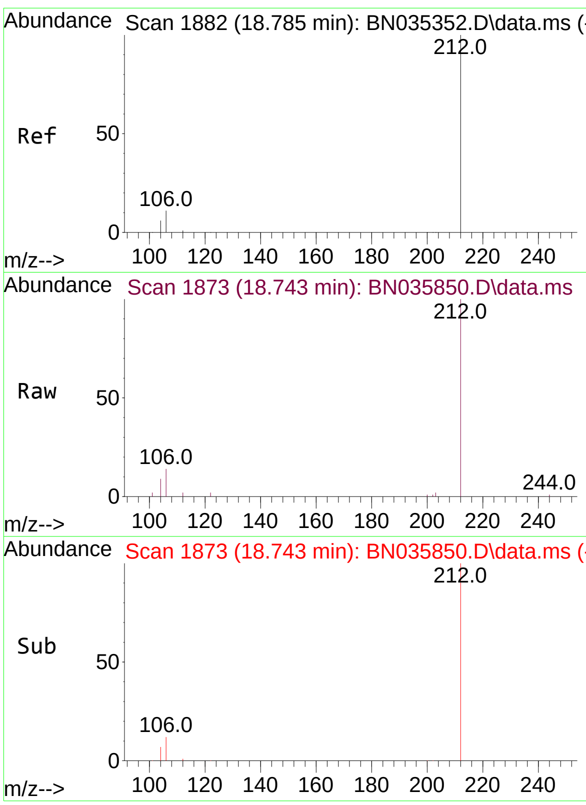



```
#19
Phenanthrene-d10
Concen:    0.400 ng
RT:  16.686 min  Scan# 1(
Delta R.T.   -0.012 min
Lab File:    BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion:188 Resp:   14733
Ion  Ratio  Lower  Upper
188  100
 94    0.0    0.0    0.0
 80   10.2    4.6    6.8#
```

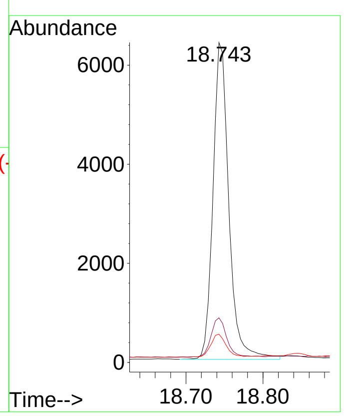
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

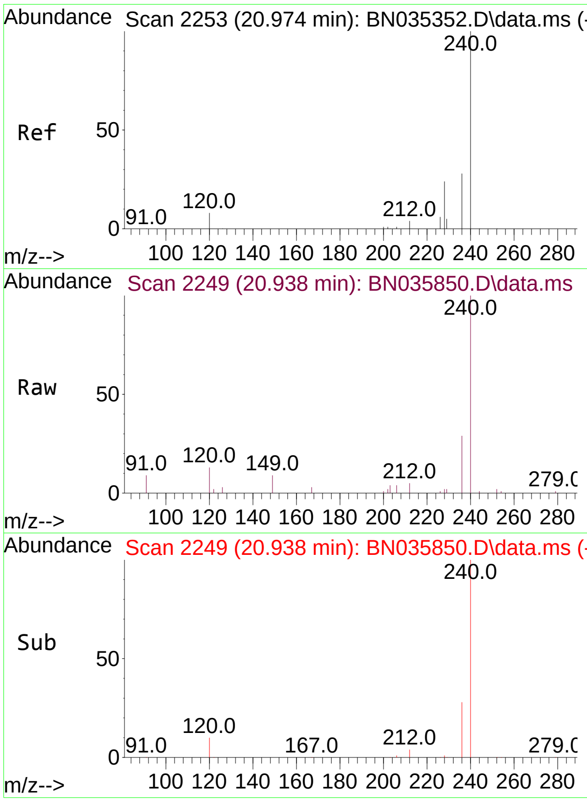





```
#27
Fluoranthene-d10
Concen:    0.220 ng
RT:  18.743 min  Scan# 1873
Delta R.T.   -0.019 min
Lab File:    BN035850.D
Acq: 26 Dec 2024  13:07

Tgt Ion:212 Resp:    9176
Ion  Ratio  Lower  Upper
212  100
106   12.6    9.2   13.8
104    7.2    5.3    7.9
```



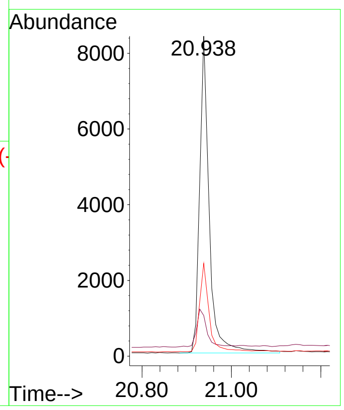


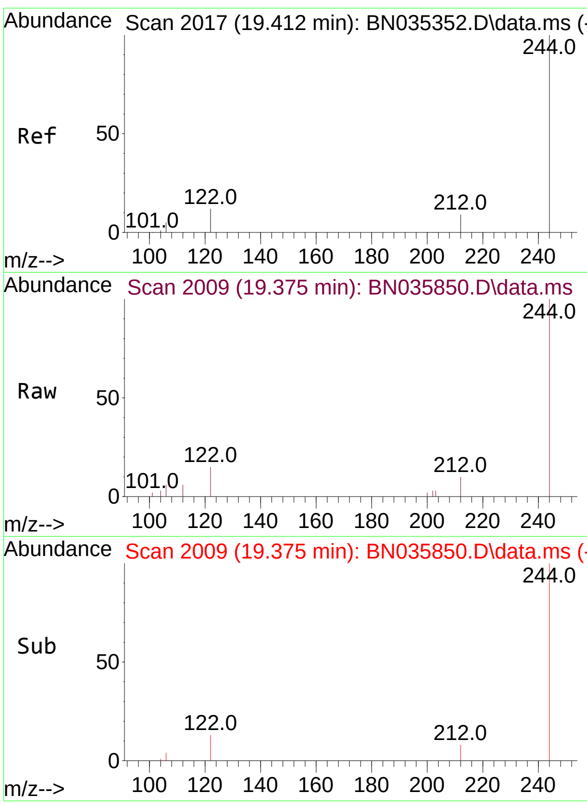
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:240 Resp: 12545

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.0	22.9	34.3

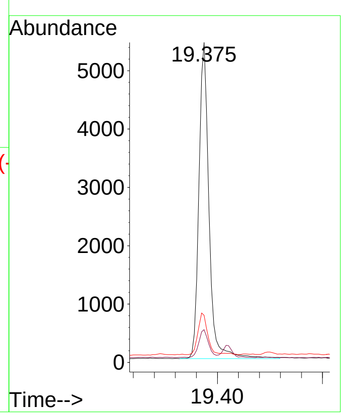


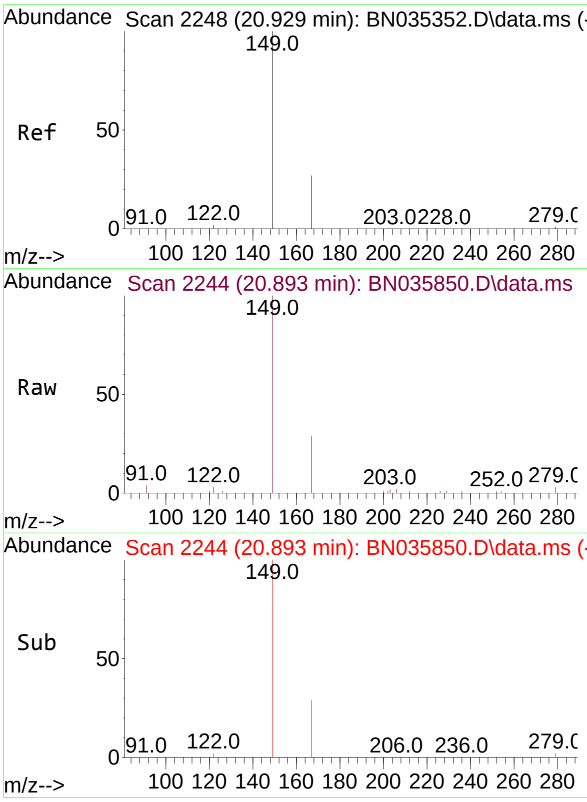


#31
Terphenyl-d14
Concen: 0.292 ng
RT: 19.375 min Scan# 2009
Delta R.T. -0.014 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:244 Resp: 7214

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	14.7	10.3	15.5



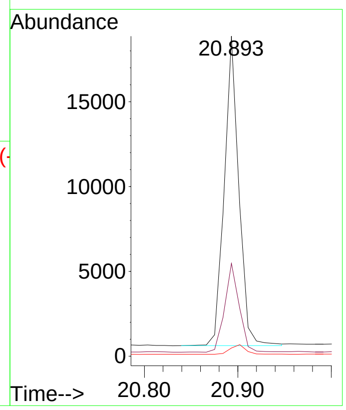


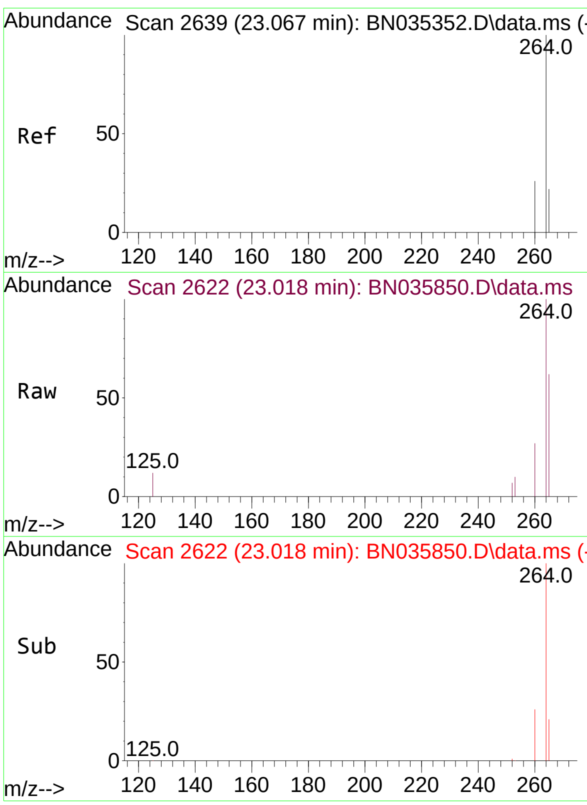
#34
Bis(2-ethylhexyl)phthalate
Concen: 1.137 ng
RT: 20.893 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-718-720

Tgt Ion:149 Resp: 19704

Ion	Ratio	Lower	Upper
149	100		
167	28.9	22.2	33.4
279	3.3	2.7	4.1

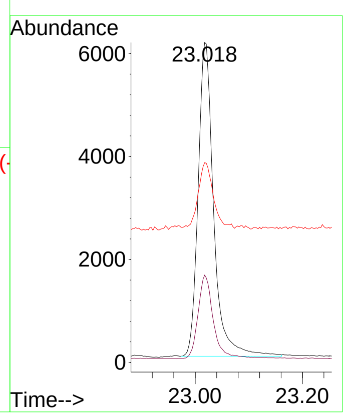




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.018 min Scan# 2622
Delta R.T. -0.023 min
Lab File: BN035850.D
Acq: 26 Dec 2024 13:07

Tgt Ion:264 Resp: 12258

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	62.5	40.2	60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On : 26 Dec 2024 14:19
Operator : RC/JU
Sample : PB165828BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

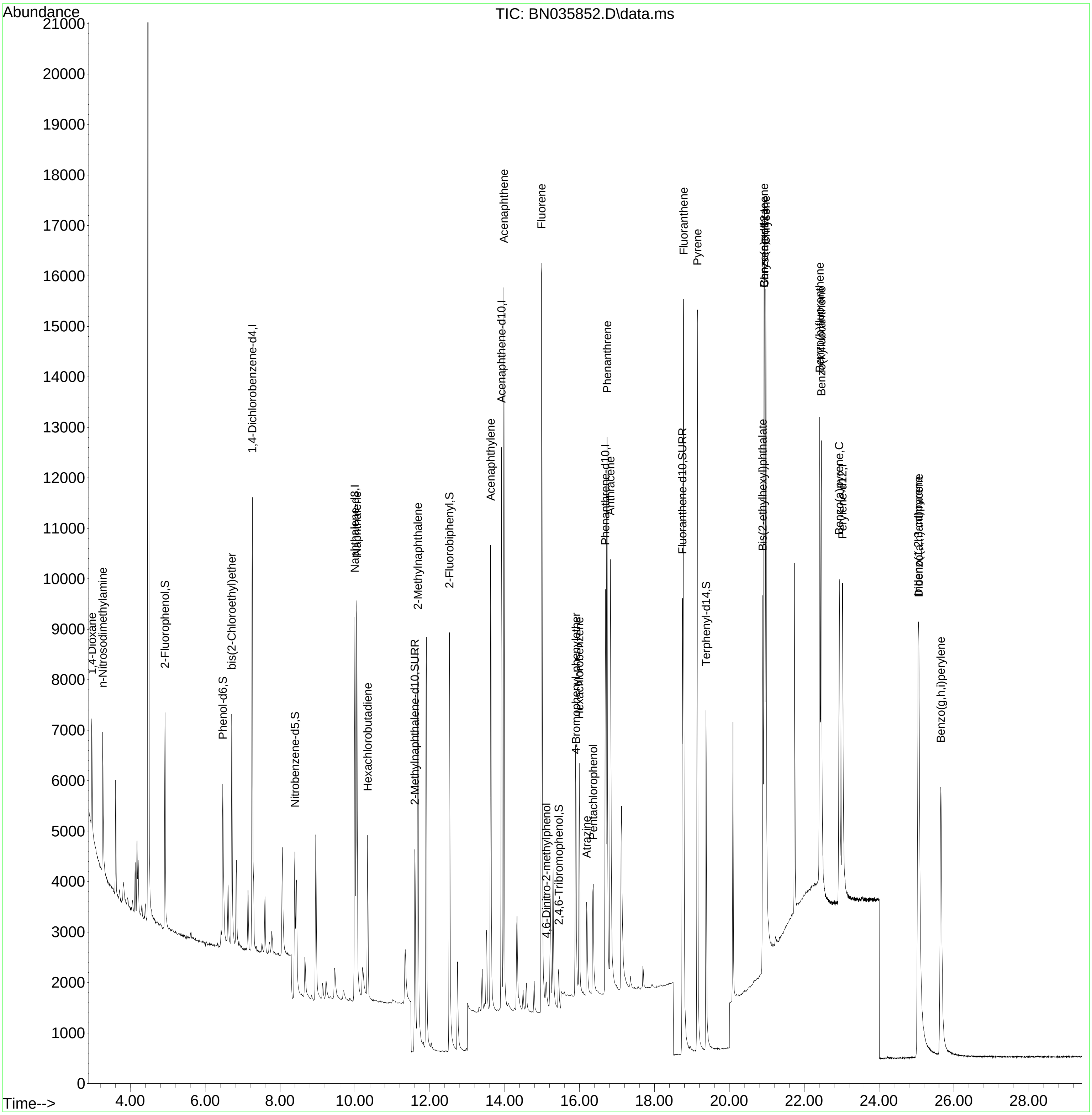
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-Dichlorobenzene-d4	7.257	152	4431	0.400 ng	-0.01
7) Naphthalene-d8	9.998	136	10905	0.400 ng	#-0.02
13) Acenaphthene-d10	13.914	164	6427	0.400 ng	-0.02
19) Phenanthrene-d10	16.686	188	13001	0.400 ng	#-0.01
29) Chrysene-d12	20.938	240	9257	0.400 ng	#-0.02
35) Perylene-d12	23.023	264	9148	0.400 ng	#-0.02
System Monitoring Compounds					
4) 2-Fluorophenol	4.924	112	3645	0.329 ng	-0.01
5) Phenol-d6	6.470	99	4024	0.302 ng	-0.02
8) Nitrobenzene-d5	8.397	82	3418	0.513 ng	-0.01
11) 2-Methylnaphthalene-d10	11.600	152	7947	0.466 ng	-0.02
14) 2,4,6-Tribromophenol	15.442	330	913	0.200 ng	-0.01
15) 2-Fluorobiphenyl	12.523	172	9578	0.394 ng	-0.02
27) Fluoranthene-d10	18.747	212	12504	0.339 ng	-0.01
31) Terphenyl-d14	19.379	244	8698	0.476 ng	0.00
Target Compounds					Qvalue
2) 1,4-Dioxane	2.974	88	1467	0.346 ng	# 88
3) n-Nitrosodimethylamine	3.263	42	1440	0.408 ng	# 88
6) bis(2-Chloroethyl)ether	6.708	93	3983	0.355 ng	99
9) Naphthalene	10.052	128	11935	0.415 ng	99
10) Hexachlorobutadiene	10.340	225	2551	0.385 ng	# 99
12) 2-Methylnaphthalene	11.681	142	7534	0.366 ng	96
16) Acenaphthylene	13.625	152	10983	0.407 ng	100
17) Acenaphthene	13.978	154	6982	0.390 ng	99
18) Fluorene	14.983	166	9056	0.353 ng	100
20) 4,6-Dinitro-2-methylph...	15.111	198	645	0.505 ng	92
21) 4-Bromophenyl-phenylether	15.904	248	2685	0.353 ng	97
22) Hexachlorobenzene	15.991	284	3862	0.432 ng	96
23) Atrazine	16.189	200	2110	0.390 ng	96
24) Pentachlorophenol	16.363	266	1614	0.415 ng	# 85
25) Phenanthrene	16.735	178	14161	0.397 ng	100
26) Anthracene	16.822	178	12409	0.384 ng	99
28) Fluoranthene	18.780	202	15692	0.326 ng	99
30) Pyrene	19.147	202	15917	0.466 ng	100
32) Benzo(a)anthracene	20.929	228	11832	0.365 ng	99
33) Chrysene	20.974	228	14241	0.426 ng	100
34) Bis(2-ethylhexyl)phtha...	20.893	149	5313	0.415 ng	99
36) Indeno(1,2,3-cd)pyrene	25.044	276	15551	0.435 ng	99
37) Benzo(b)fluoranthene	22.415	252	19434	0.581 ng	# 96
38) Benzo(k)fluoranthene	22.456	252	14469	0.439 ng	95
39) Benzo(a)pyrene	22.936	252	11624	0.422 ng	# 91
40) Dibenzo(a,h)anthracene	25.061	278	11696	0.414 ng	95
41) Benzo(g,h,i)perylene	25.649	276	12710	0.431 ng	98

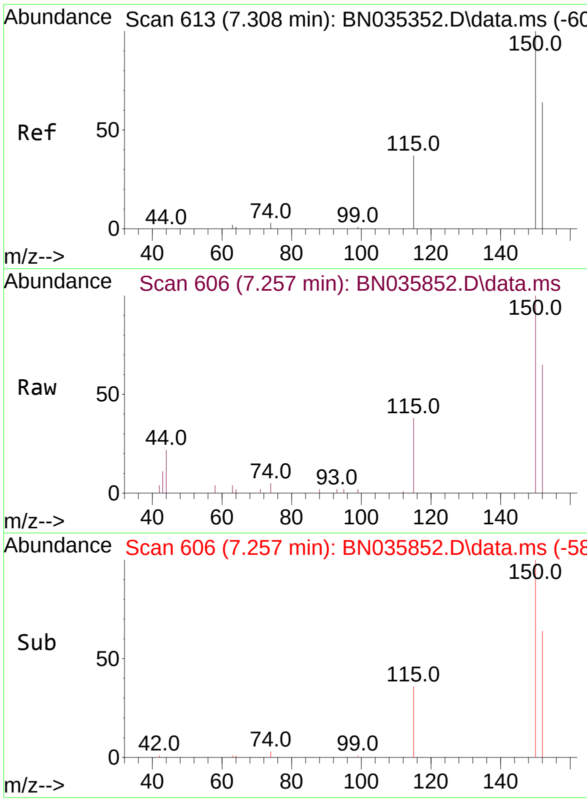
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035852.D
Acq On   : 26 Dec 2024 14:19
Operator : RC/JU
Sample   : PB165828BS
Misc   :
ALS Vial : 9   Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Quant Time: Dec 27 00:41:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



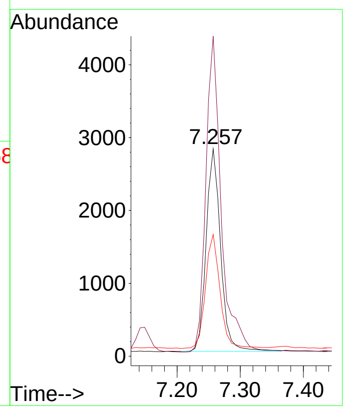


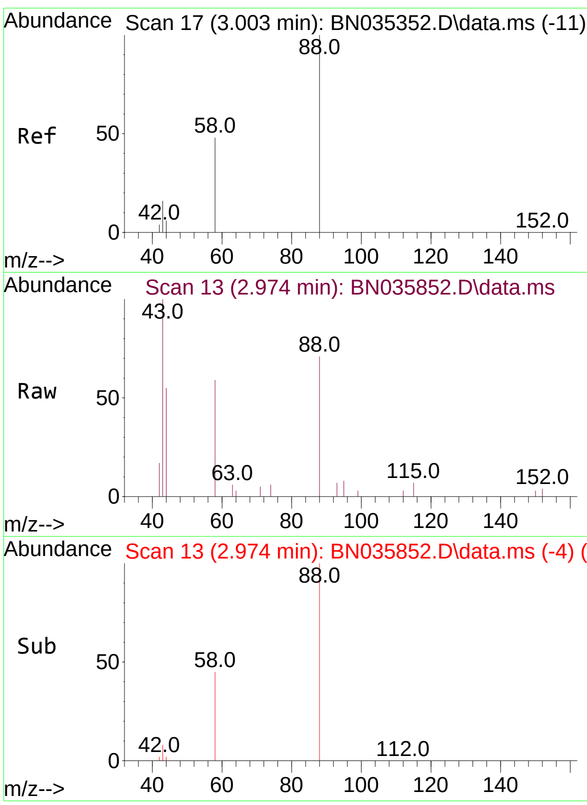
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:152 Resp: 4431

Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.0	186.0
115	58.7	49.6	74.4

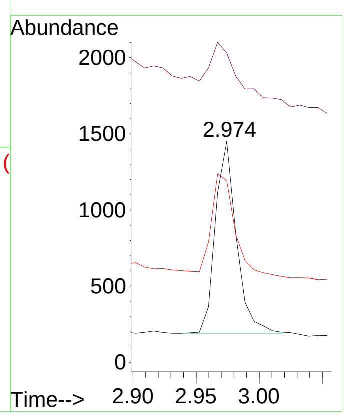


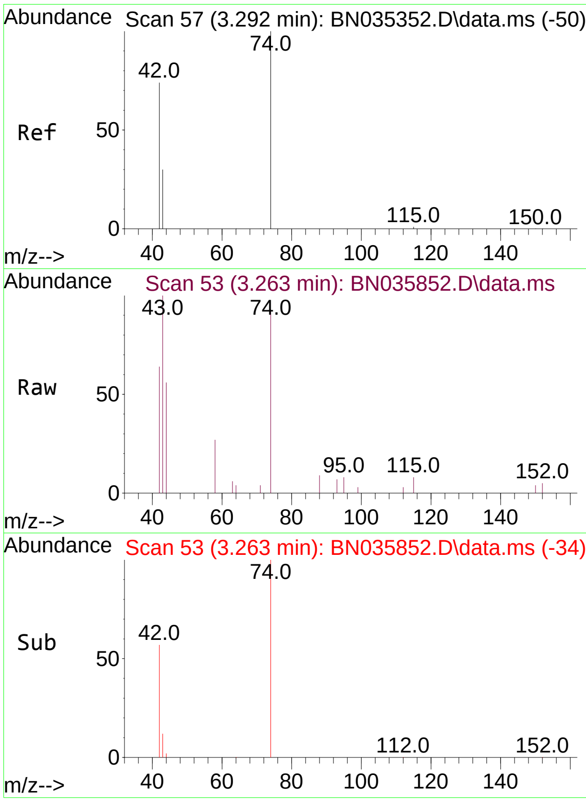


#2
1,4-Dioxane
Concen: 0.346 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 88 Resp: 1467

Ion	Ratio	Lower	Upper
88	100		
43	35.7	17.2	25.8#
58	59.5	44.5	66.7



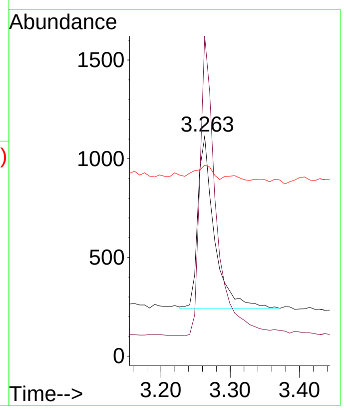


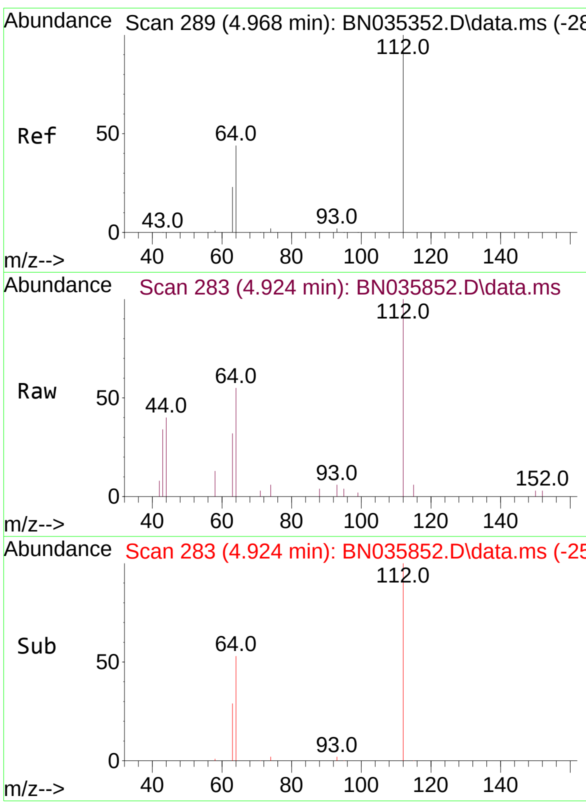
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion: 42 Resp: 1440

Ion	Ratio	Lower	Upper
42	100		
74	172.0	124.9	187.3
44	8.5	2.2	3.4#

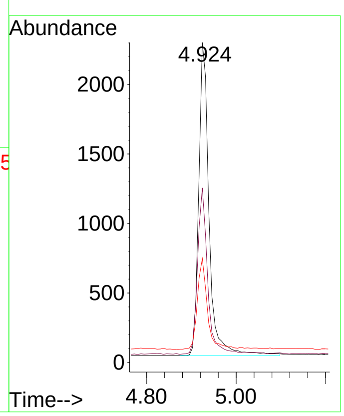


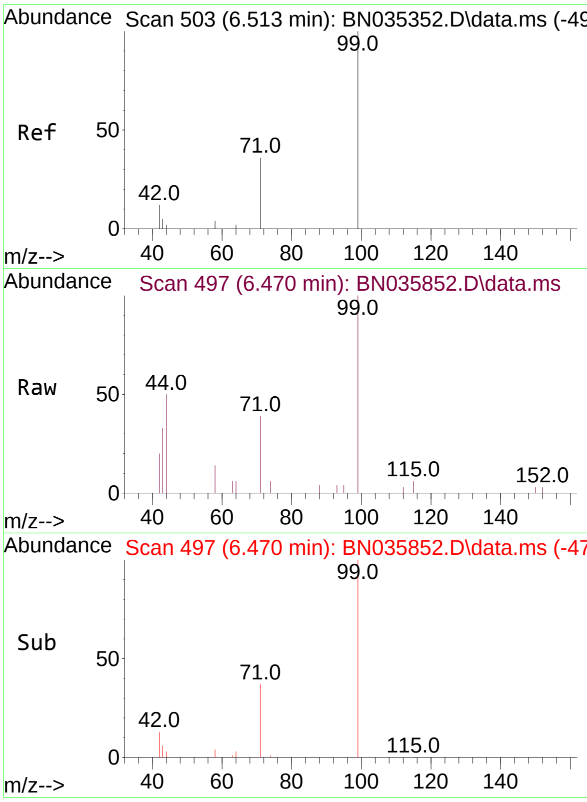


#4
2-Fluorophenol
Concen: 0.329 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:112 Resp: 3645

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.7	21.0	31.6



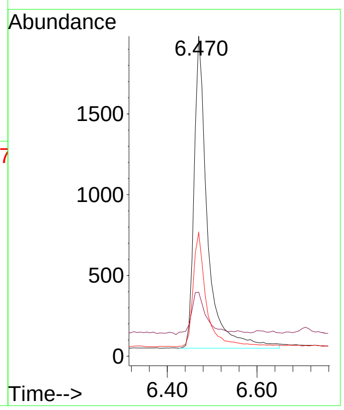


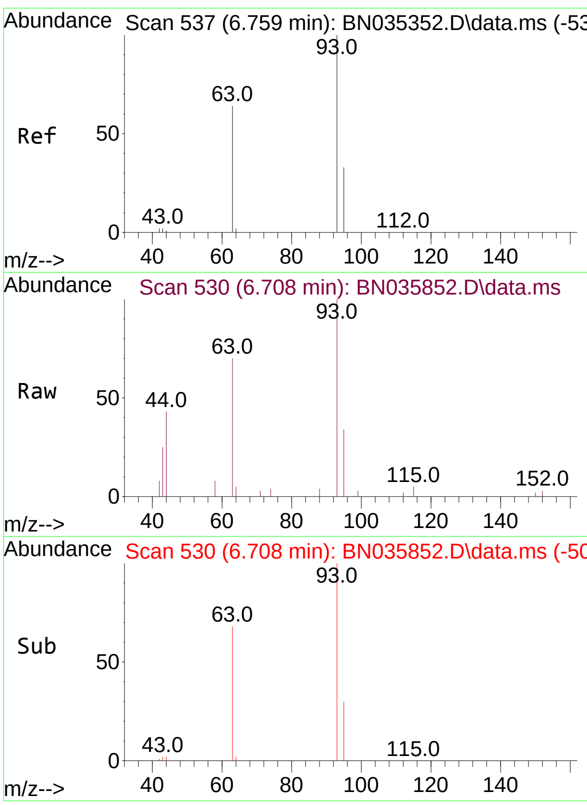
#5
Phenol-d6
Concen: 0.302 ng
RT: 6.470 min Scan# 49
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion: 99 Resp: 4024

Ion	Ratio	Lower	Upper
99	100		
42	15.6	11.4	17.2
71	36.4	29.3	43.9

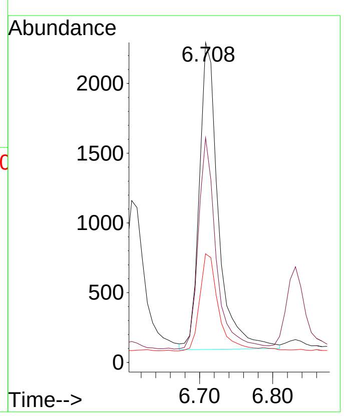


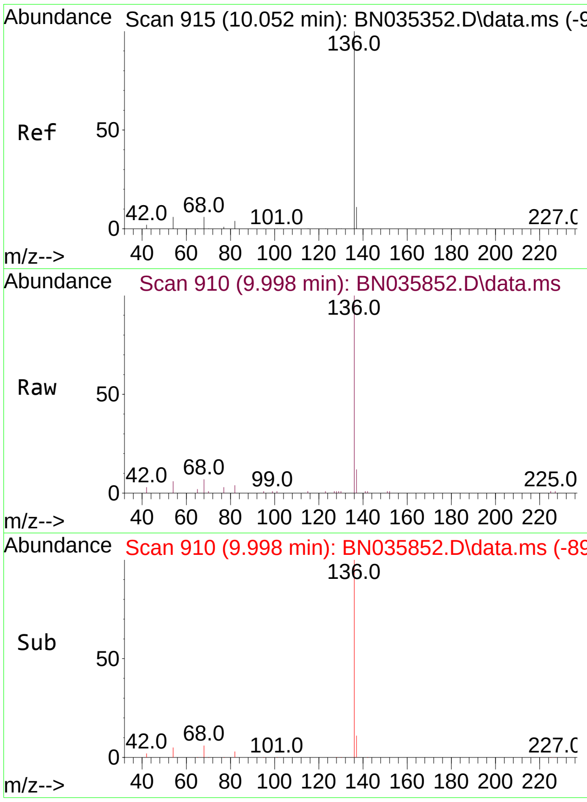


#6
bis(2-Chloroethyl)ether
Concen: 0.355 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 93 Resp: 3983

Ion	Ratio	Lower	Upper
93	100		
63	64.4	50.4	75.6
95	32.1	25.7	38.5



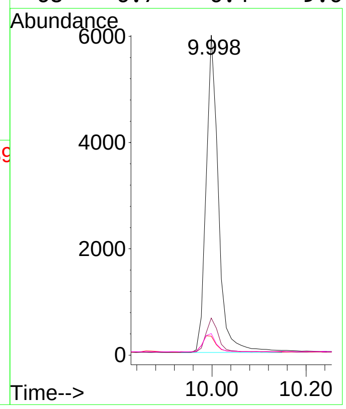


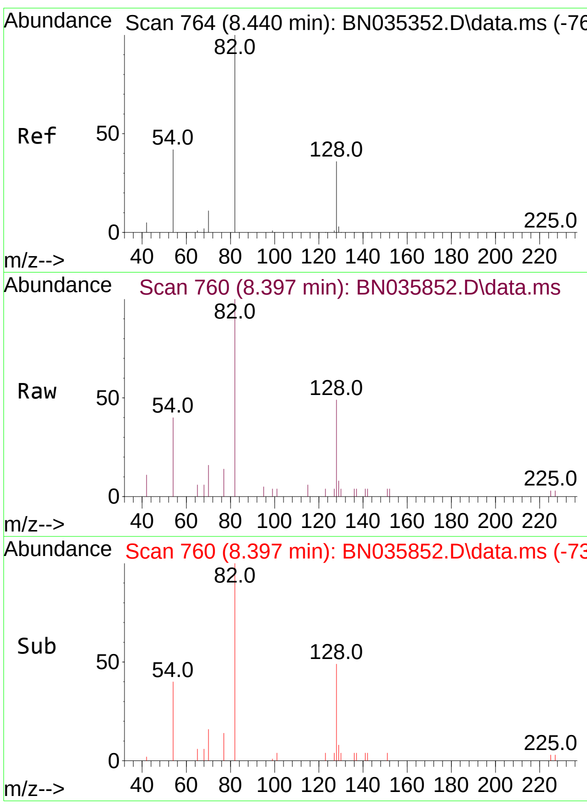
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.998 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:136 Resp: 10905

Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.2	15.2
54	5.9	6.1	9.1#
68	6.7	6.4	9.6

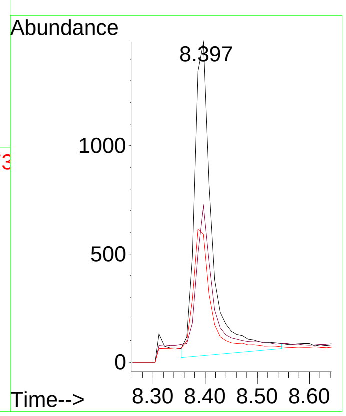


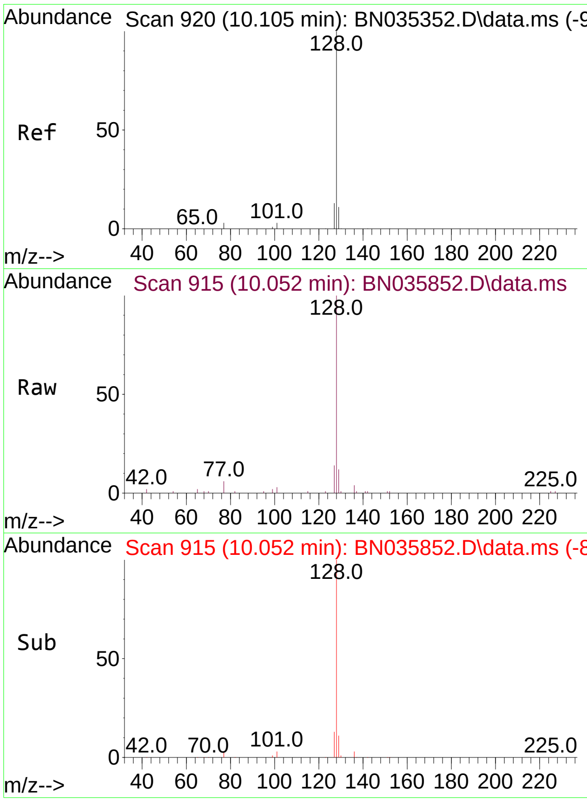


#8
Nitrobenzene-d5
Concen: 0.513 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion: 82 Resp: 3418

Ion	Ratio	Lower	Upper
82	100		
128	48.8	33.4	50.0
54	39.9	36.7	55.1





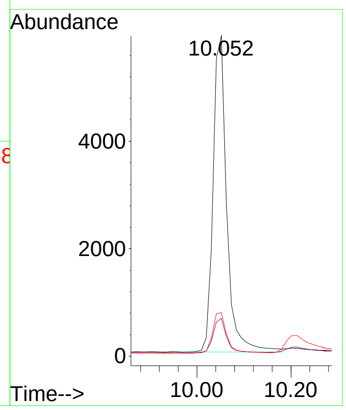
#9
Naphthalene
Concen: 0.415 ng
RT: 10.052 min Scan# 9

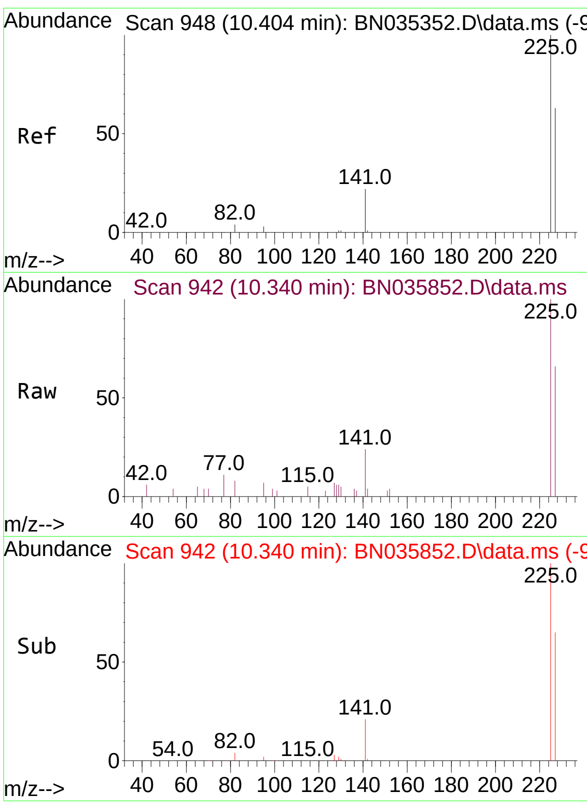
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:128 Resp: 11935

Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.8	14.6
127	13.6	11.4	17.2

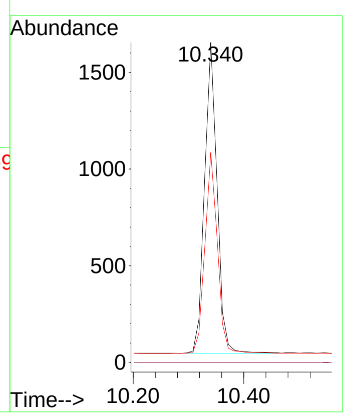


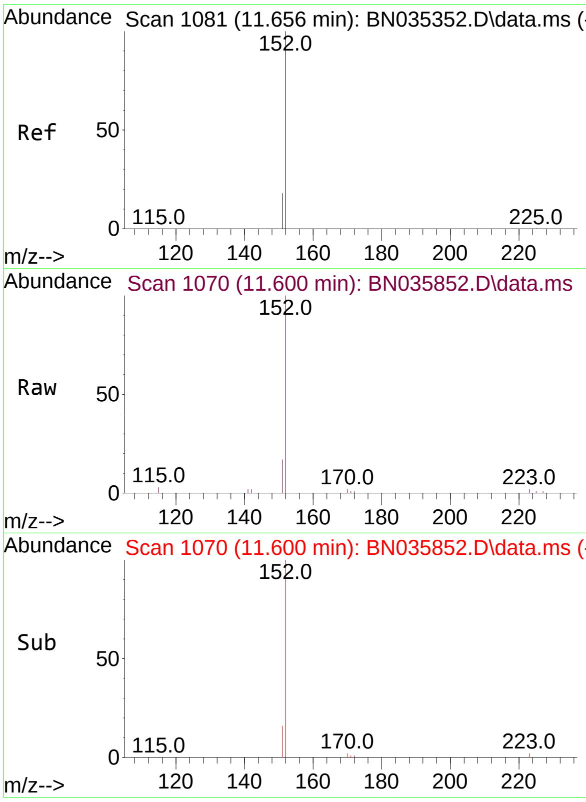


#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:225 Resp: 2551

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9



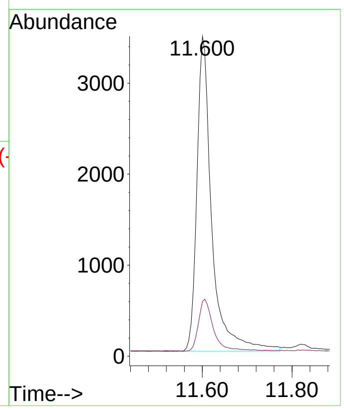


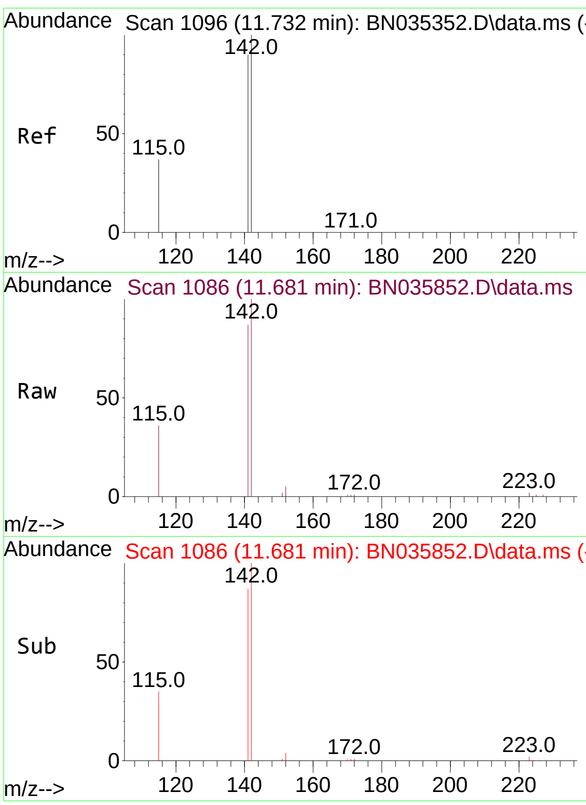
#11
2-Methylnaphthalene-d10
Concen: 0.466 ng
RT: 11.600 min Scan# 10
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:152 Resp: 7947

Ion	Ratio	Lower	Upper
152	100		
151	16.8	16.6	25.0

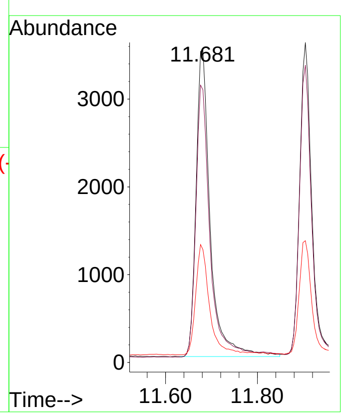


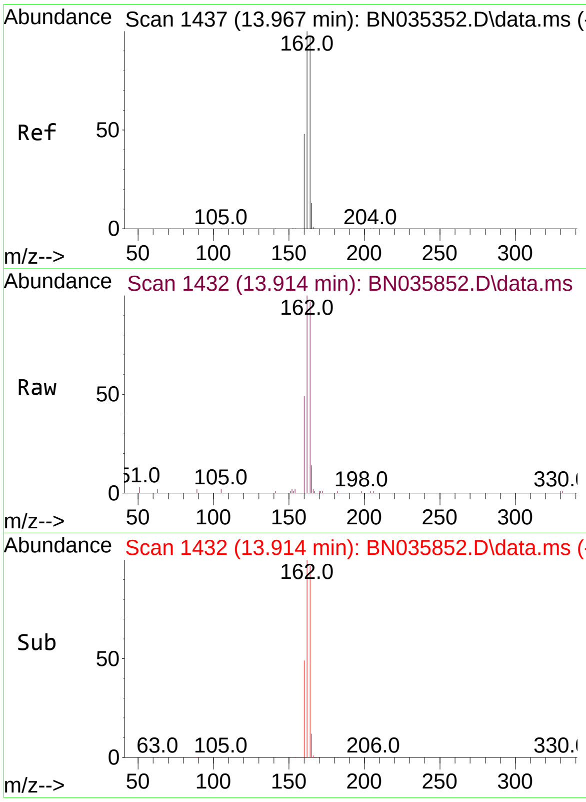


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.681 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:142 Resp: 7534

Ion	Ratio	Lower	Upper
142	100		
141	87.3	72.2	108.4
115	36.1	31.4	47.0



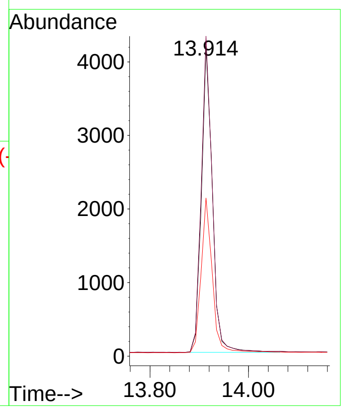


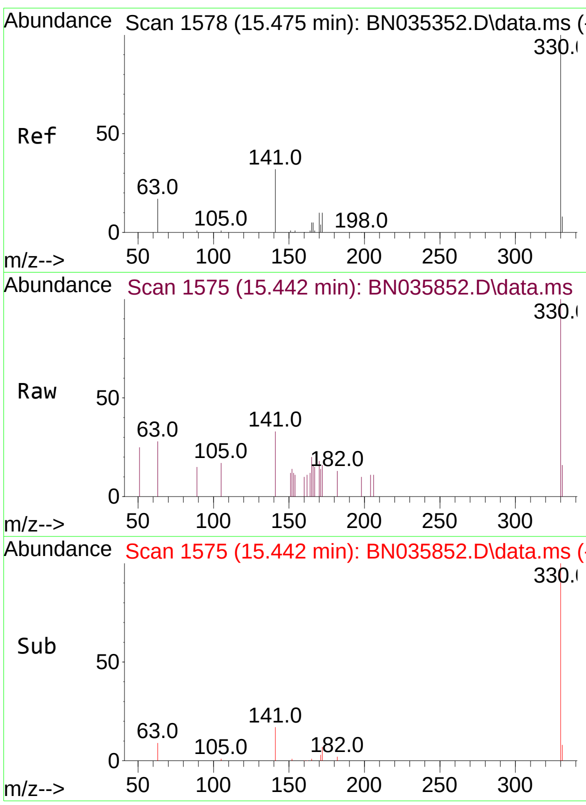
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:164 Resp: 6427

Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.2	123.2
160	51.1	40.1	60.1

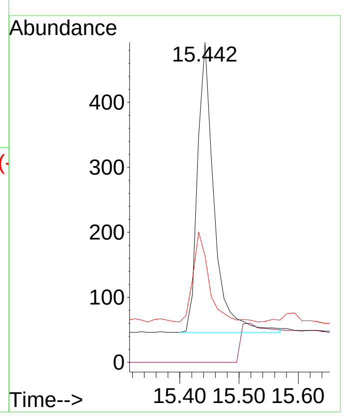


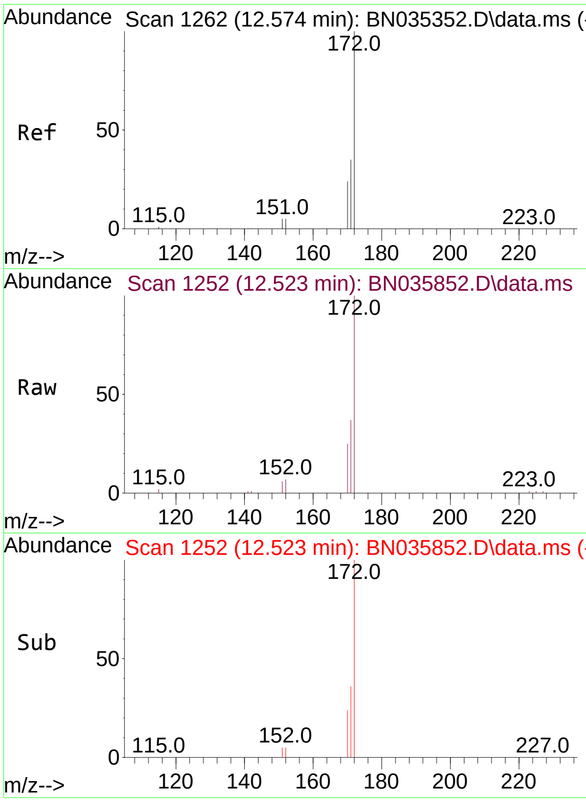


#14
2,4,6-Tribromophenol
Concen: 0.200 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:330 Resp: 913

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



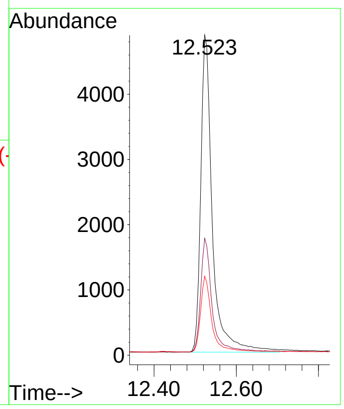


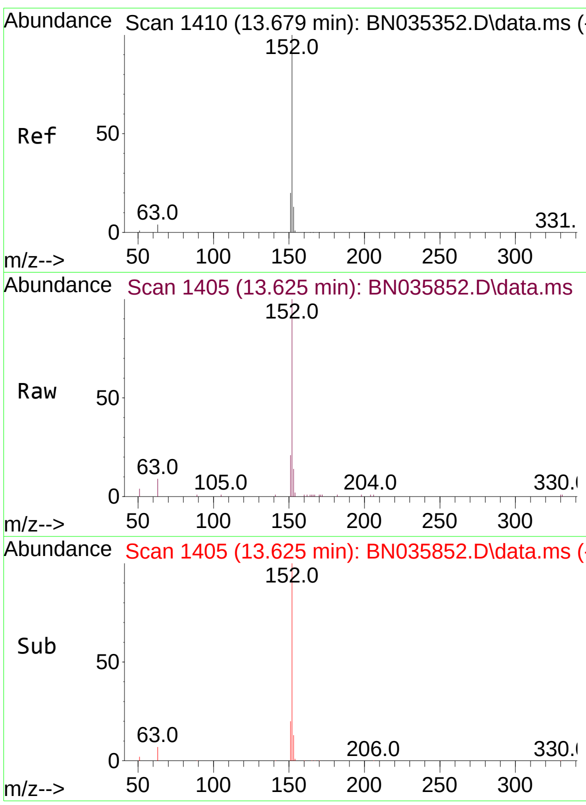
#15
2-Fluorobiphenyl
Concen: 0.394 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:172 Resp: 9578

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.6	19.8	29.8

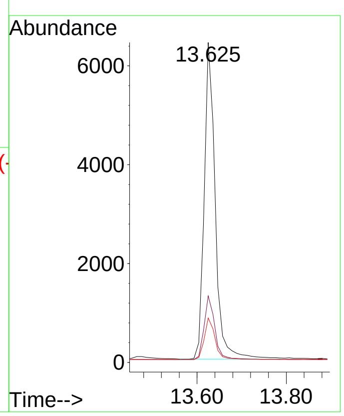


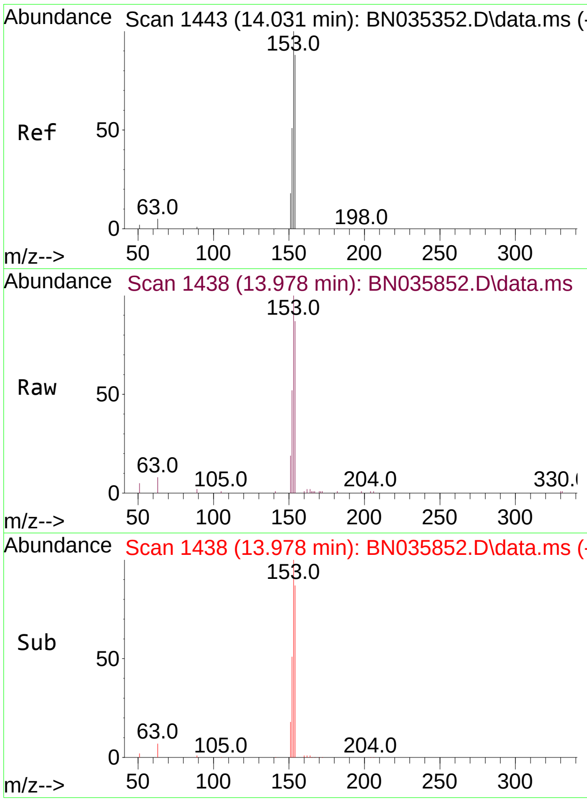


#16
Acenaphthylene
Concen: 0.407 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:152 Resp: 10983

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.3	10.4	15.6





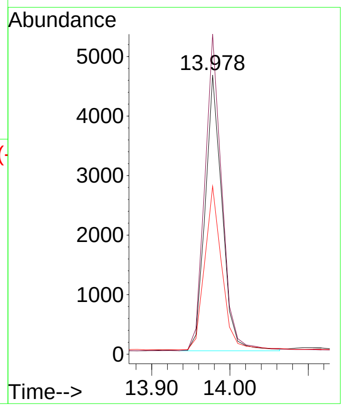
#17
Acenaphthene
Concen: 0.390 ng
RT: 13.978 min Scan# 14

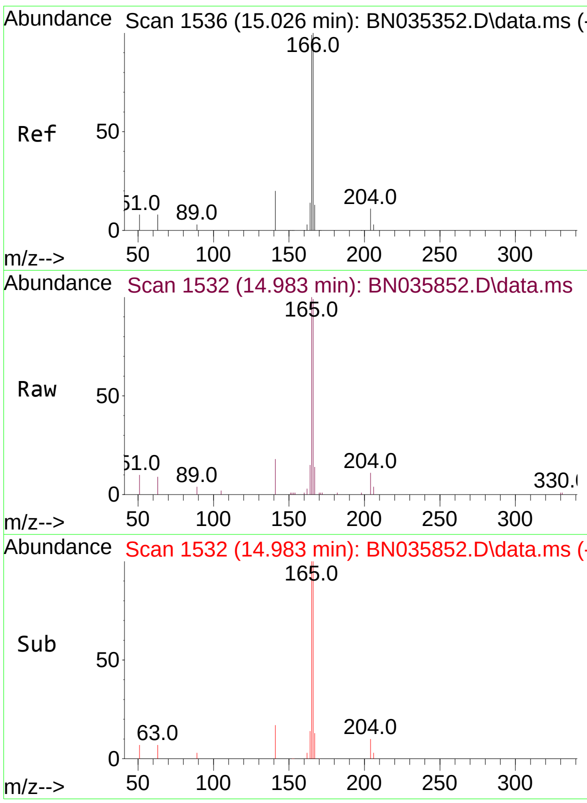
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:154 Resp: 6982

Ion	Ratio	Lower	Upper
154	100		
153	117.4	92.6	139.0
152	60.2	49.0	73.6

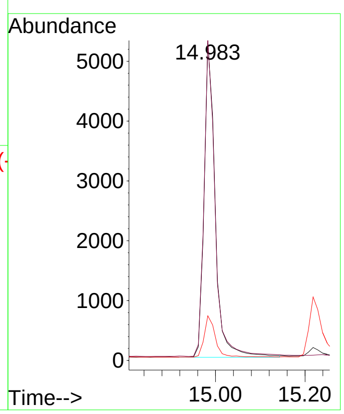


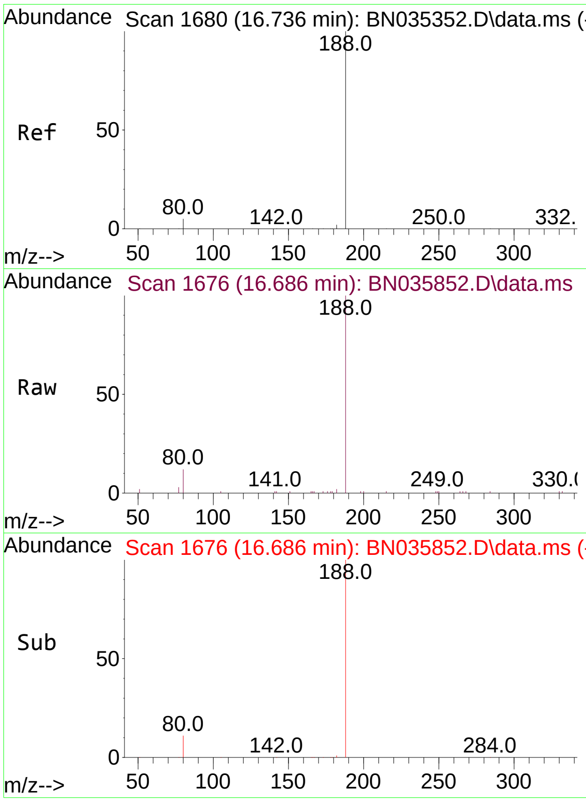


#18
Fluorene
Concen: 0.353 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:166 Resp: 9056

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.7	119.5
167	13.2	10.8	16.2



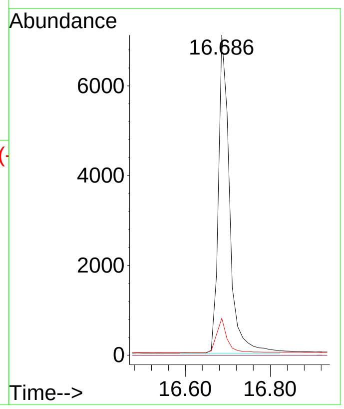


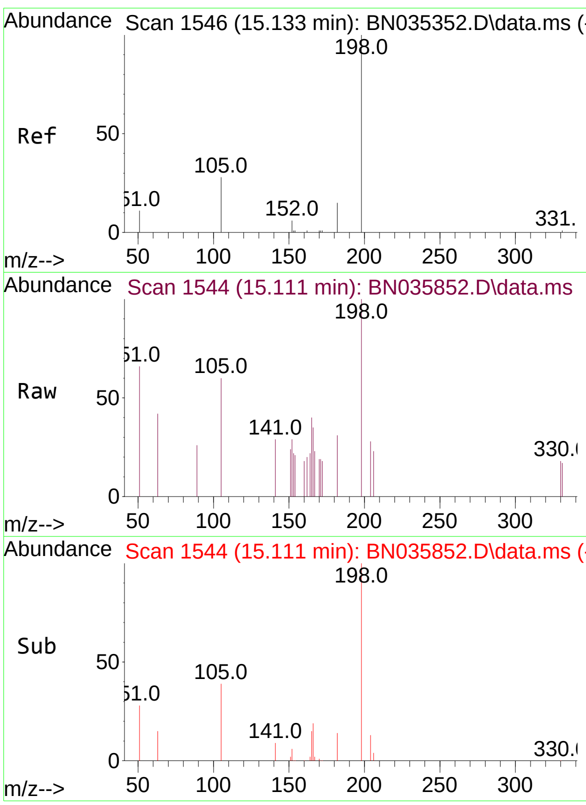
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:188 Resp: 13001

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.6	4.6	6.8#

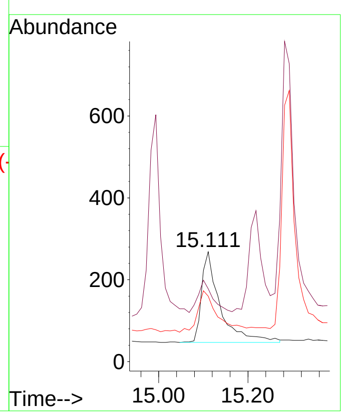


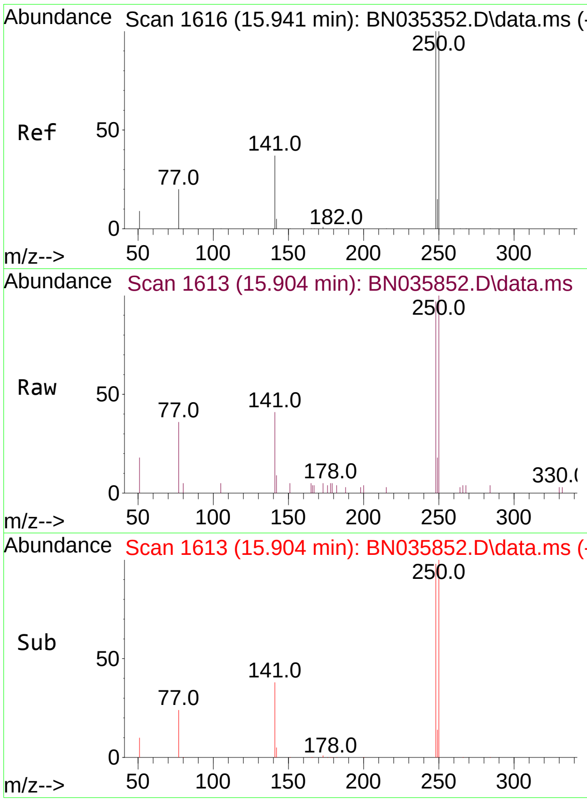


#20
4,6-Dinitro-2-methylphenol
Concen: 0.505 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:198 Resp: 645

Ion	Ratio	Lower	Upper
198	100		
51	66.4	46.5	69.7
105	59.7	45.3	67.9



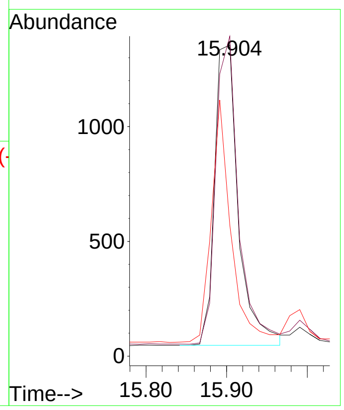


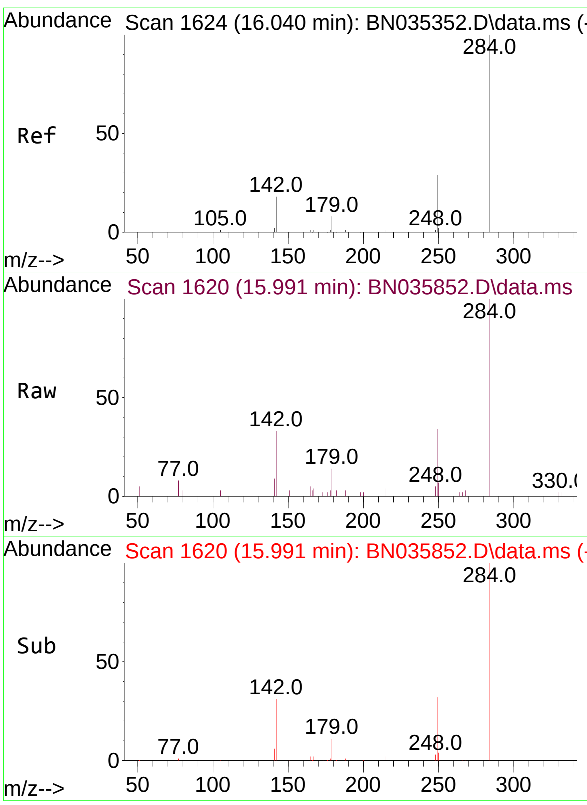
#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:248 Resp: 2685

Ion	Ratio	Lower	Upper
248	100		
250	102.8	80.6	120.8
141	42.2	31.5	47.3

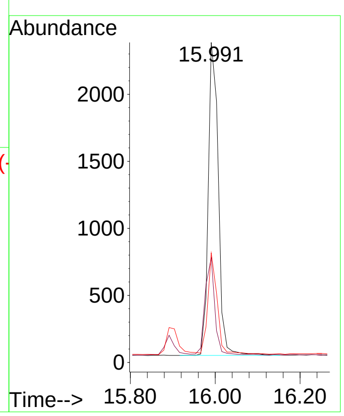


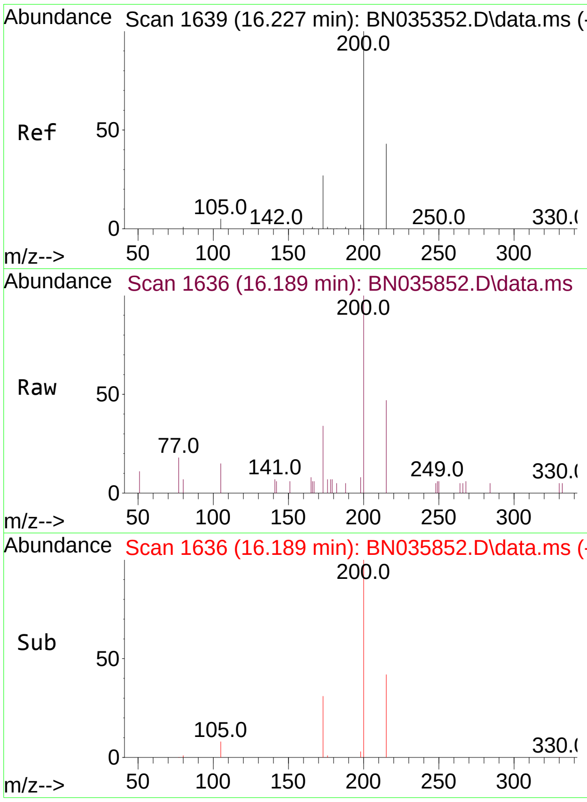


#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:284 Resp: 3862

Ion	Ratio	Lower	Upper
284	100		
142	29.3	26.7	40.1
249	30.2	24.6	36.8





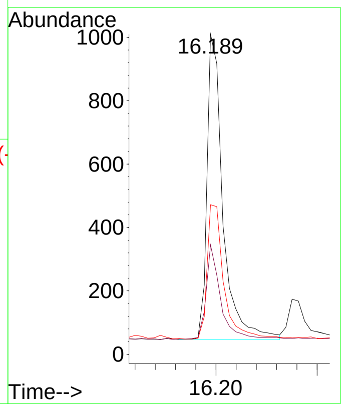
#23
Atrazine
Concen: 0.390 ng
RT: 16.189 min Scan# 1

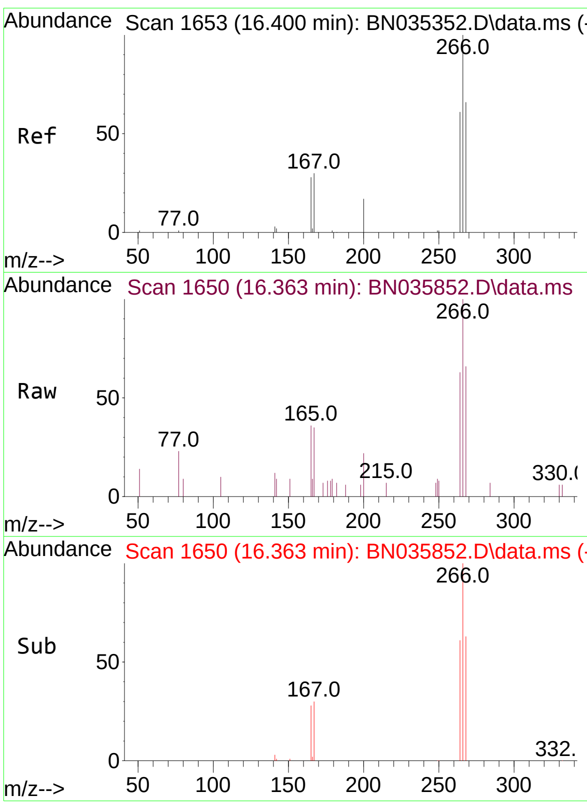
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Delta R.T.   -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:200 Resp: 2110

Ion	Ratio	Lower	Upper
200	100		
173	34.2	24.1	36.1
215	46.7	36.9	55.3

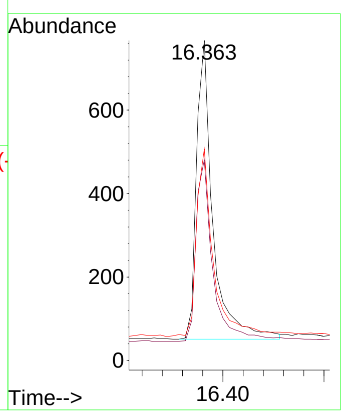


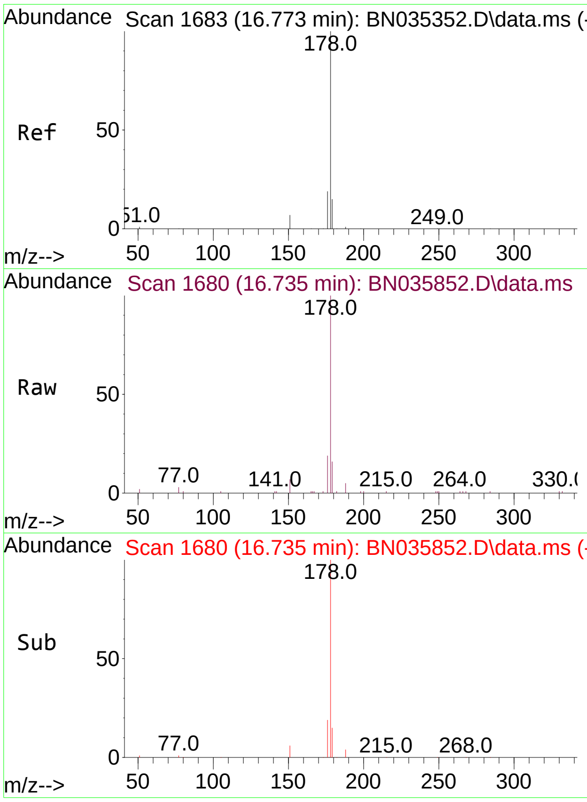


#24
Pentachlorophenol
Concen: 0.415 ng
RT: 16.363 min Scan# 1650
Delta R.T.   -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:266 Resp: 1614

Ion	Ratio	Lower	Upper
266	100		
264	63.1	42.3	63.5
268	65.7	43.3	64.9#



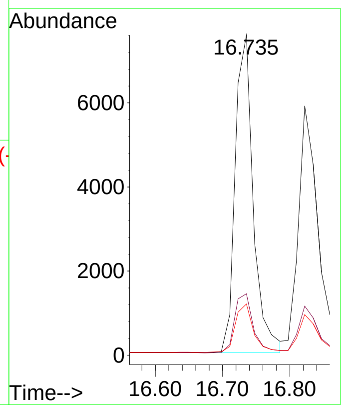


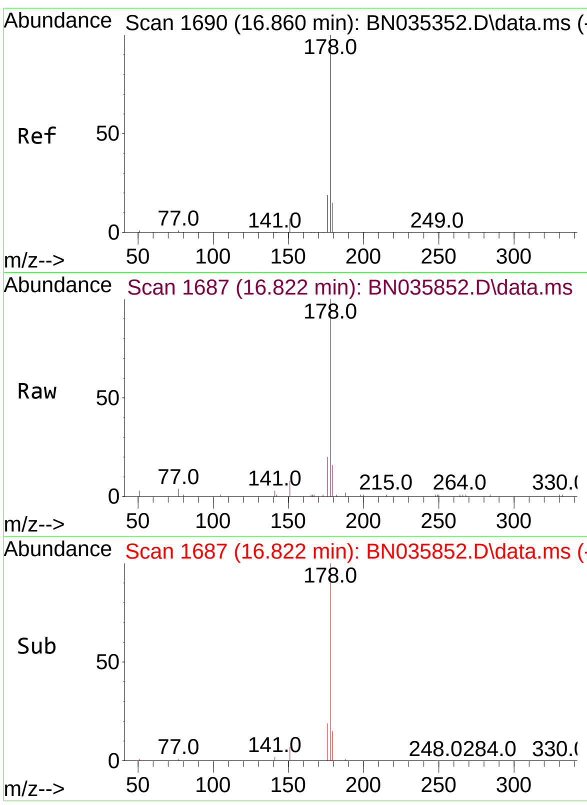
#25
Phenanthrene
Concen: 0.397 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:178 Resp: 14161

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

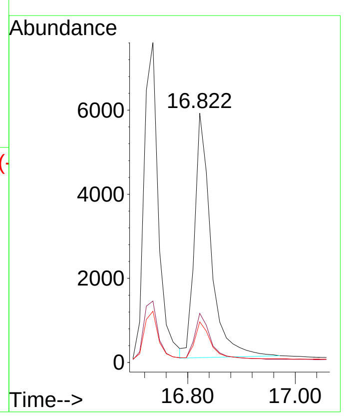


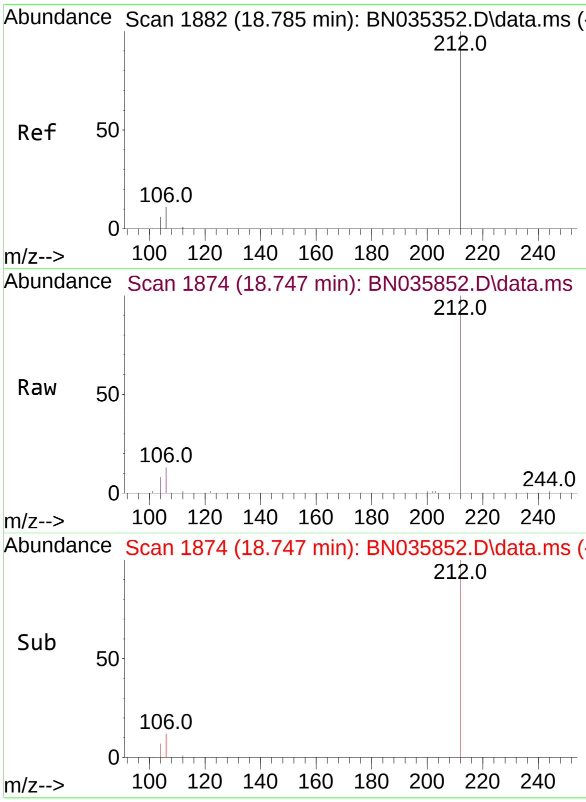


#26
Anthracene
Concen: 0.384 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:178 Resp: 12409

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.6
179	14.9	12.6	18.8



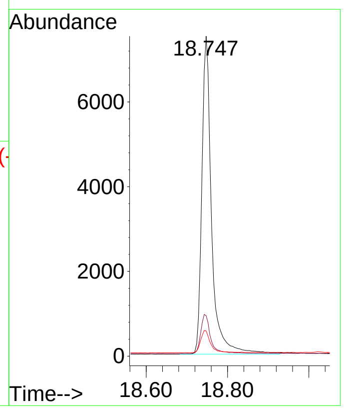


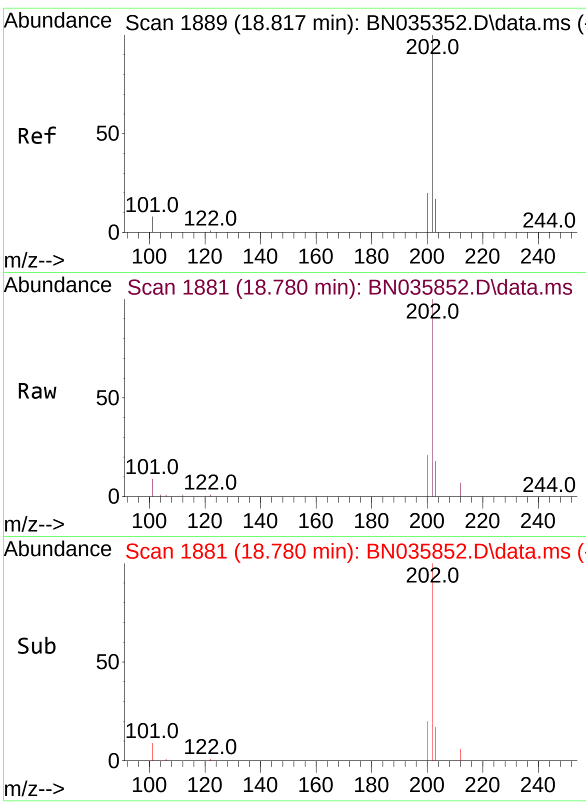
#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:212 Resp: 12504

Ion	Ratio	Lower	Upper
212	100		
106	12.6	9.2	13.8
104	7.0	5.3	7.9

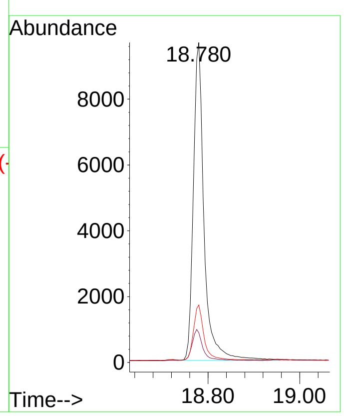


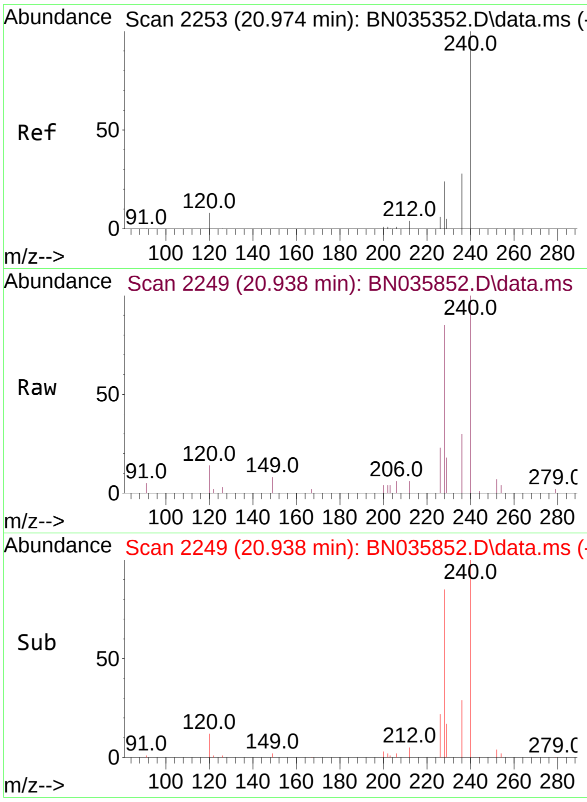


#28
Fluoranthene
Concen: 0.326 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15692

Ion	Ratio	Lower	Upper
202	100		
101	9.5	7.4	11.0
203	16.8	13.7	20.5



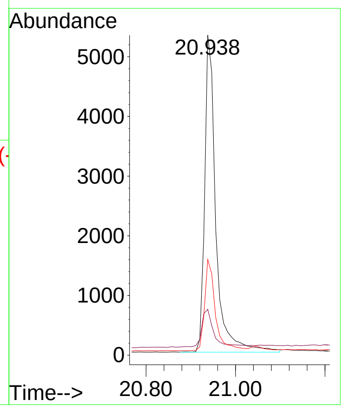


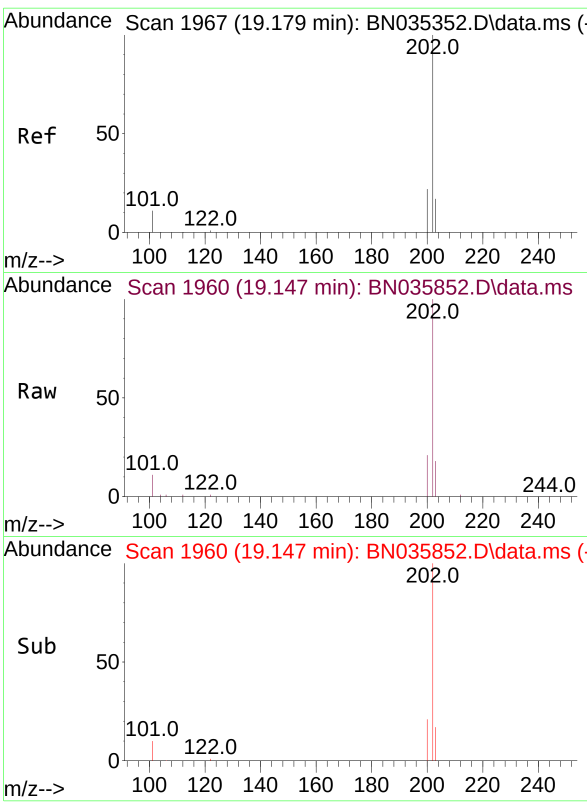
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:240 Resp: 9257

Ion	Ratio	Lower	Upper
240	100		
120	14.3	7.9	11.9#
236	29.9	22.9	34.3

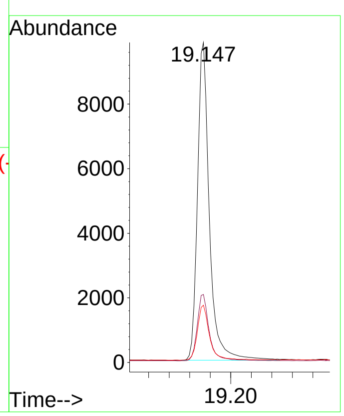


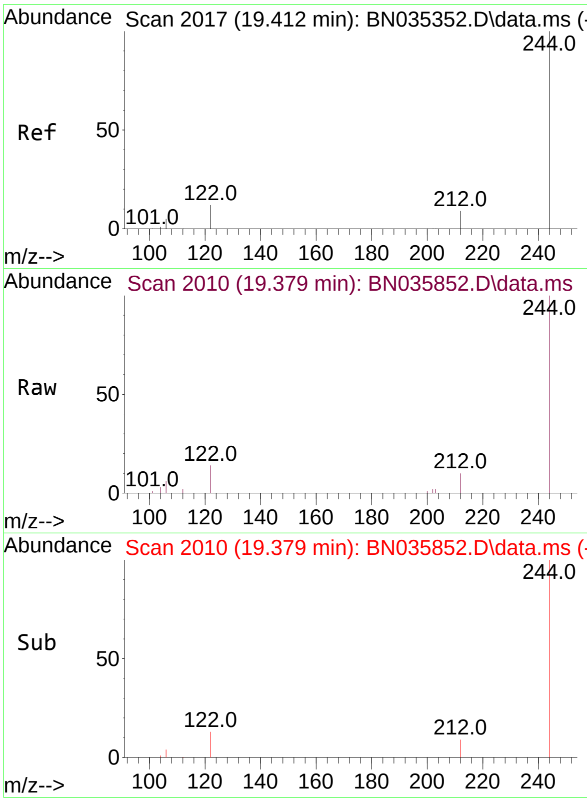


#30
Pyrene
Concen: 0.466 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:202 Resp: 15917

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5



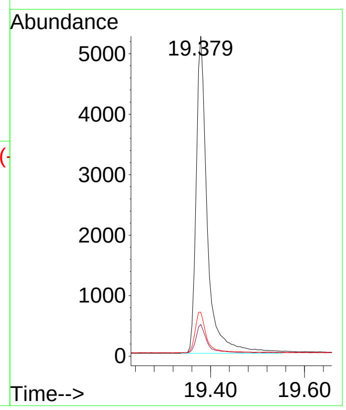


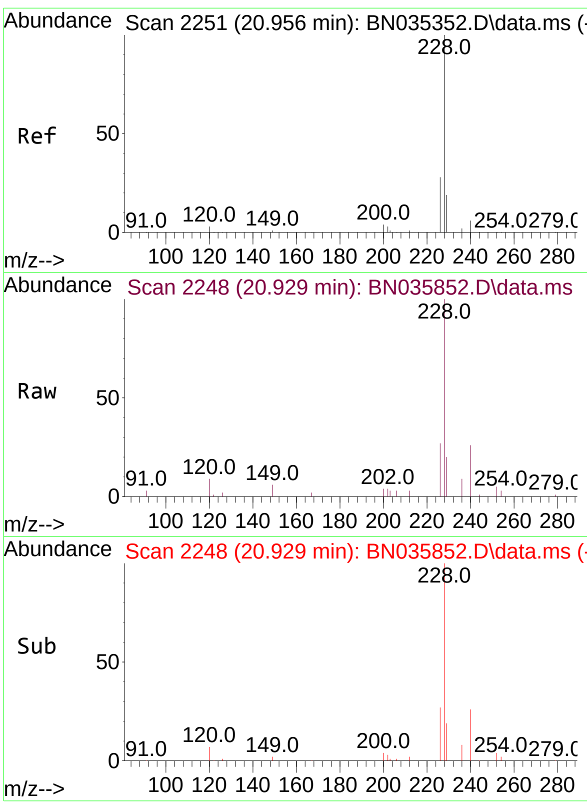
#31
Terphenyl-d14
Concen: 0.476 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.010 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:244 Resp: 8698

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	13.7	10.3	15.5

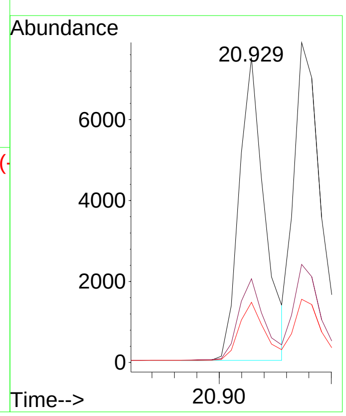


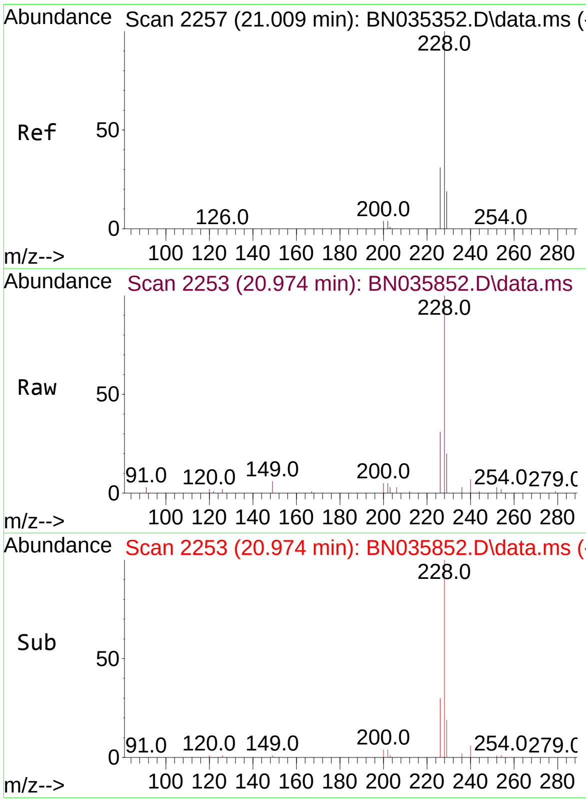


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 11832

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.7	15.8	23.8





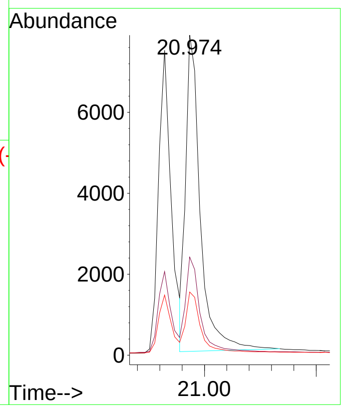
#33
Chrysene
Concen: 0.426 ng
RT: 20.974 min Scan# 2

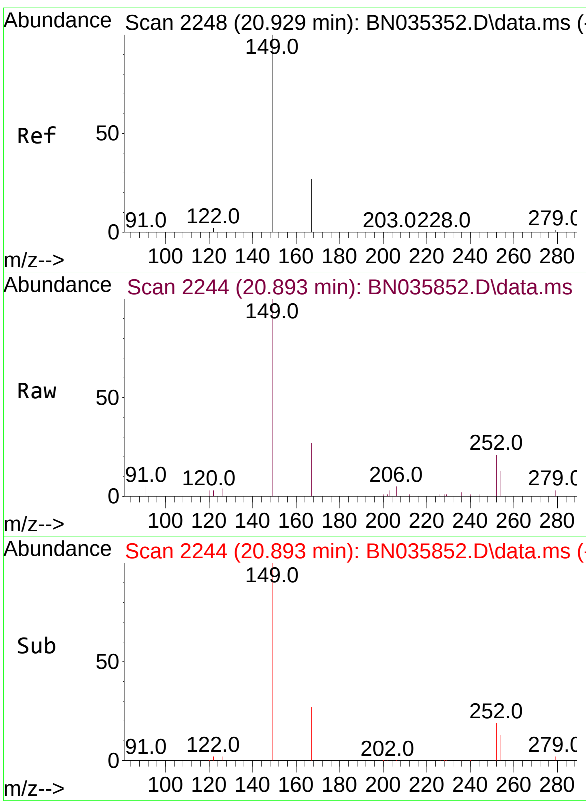
Instrument :
BNA_N
ClientSampleId :
PB165828BS

Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:228 Resp: 14241

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.8	15.9	23.9

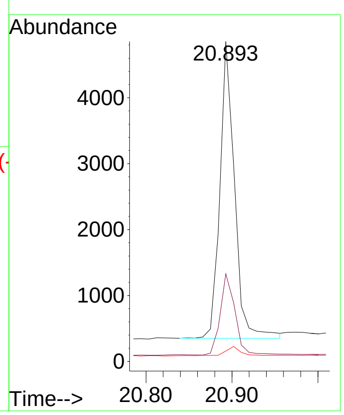


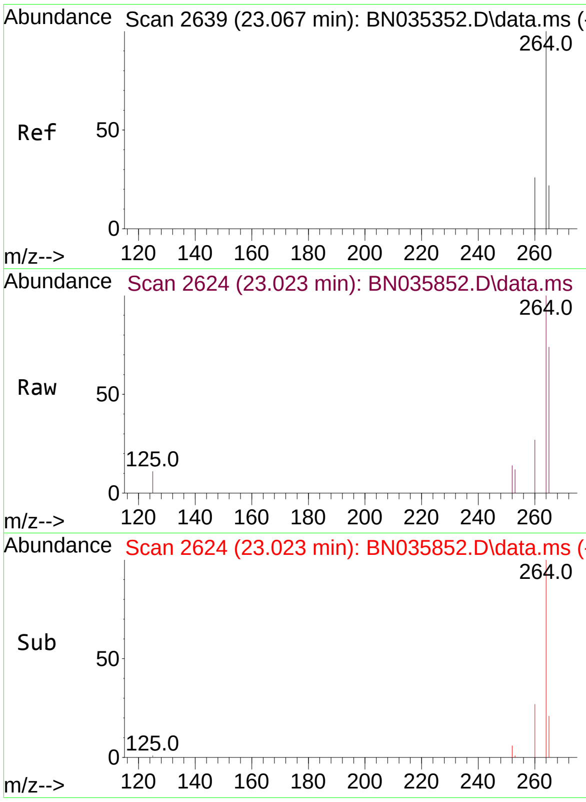


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:149 Resp: 5313

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.4
279	3.3	2.7	4.1



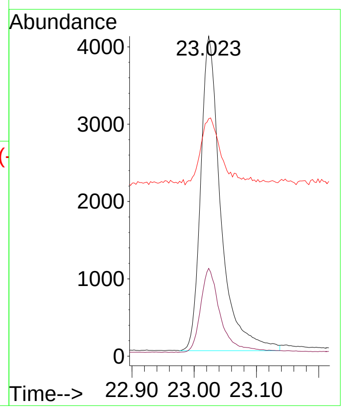


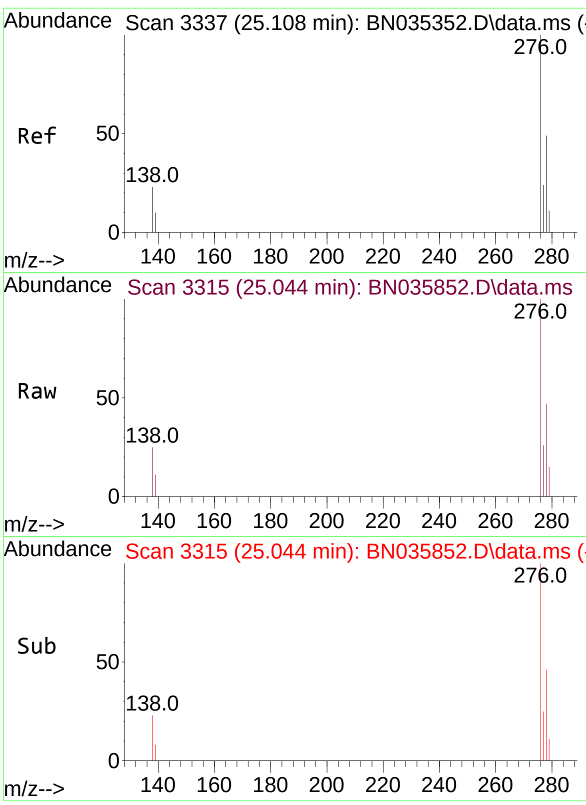
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.023 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:264 Resp: 9148

Ion	Ratio	Lower	Upper
264	100		
260	27.5	21.4	32.2
265	74.2	40.2	60.4#

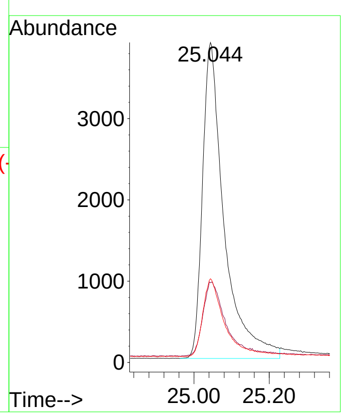


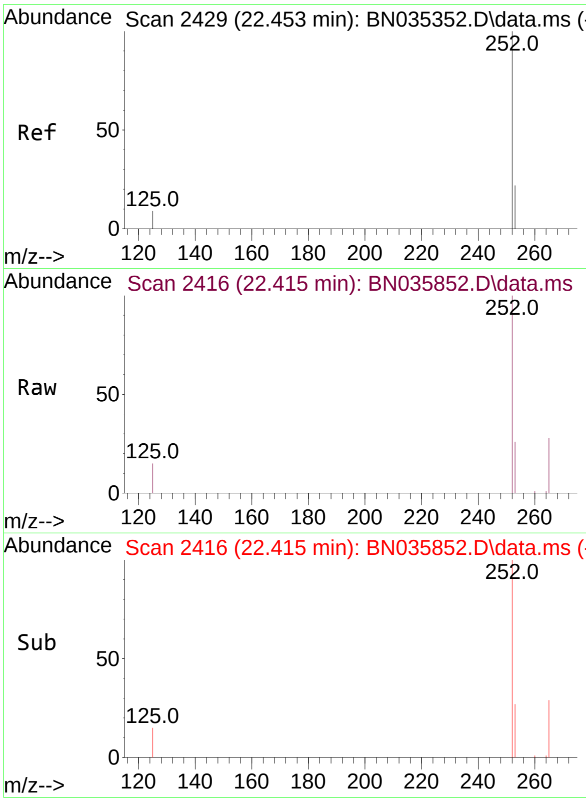


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.435 ng
RT: 25.044 min Scan# 3315
Delta R.T. -0.024 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:276 Resp: 15551

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.9	19.8	29.6



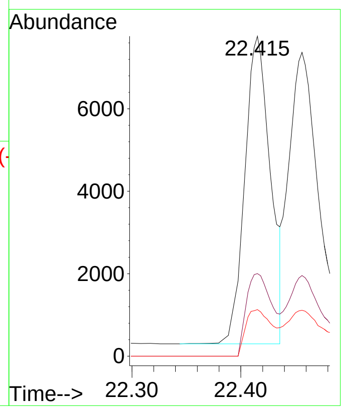


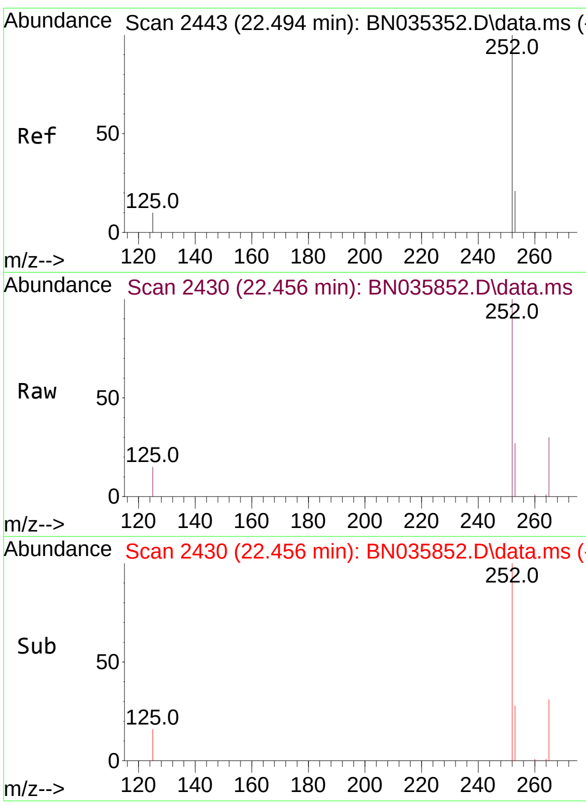
#37
Benzo(b)fluoranthene
Concen: 0.581 ng
RT: 22.415 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:252 Resp: 19434

Ion	Ratio	Lower	Upper
252	100		
253	25.8	19.6	29.4
125	14.5	9.6	14.4#

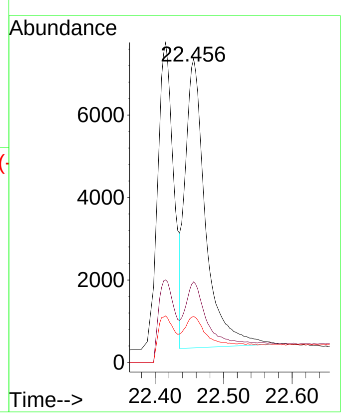


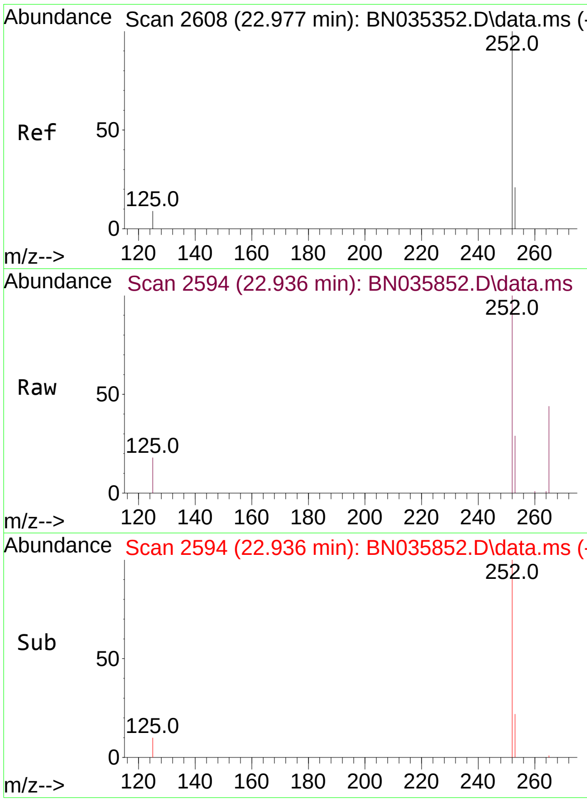


#38
Benzo(k)fluoranthene
Concen: 0.439 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:252 Resp: 14469

Ion	Ratio	Lower	Upper
252	100		
253	26.5	19.5	29.3
125	15.1	10.2	15.4



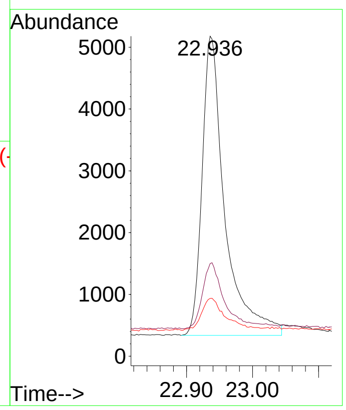


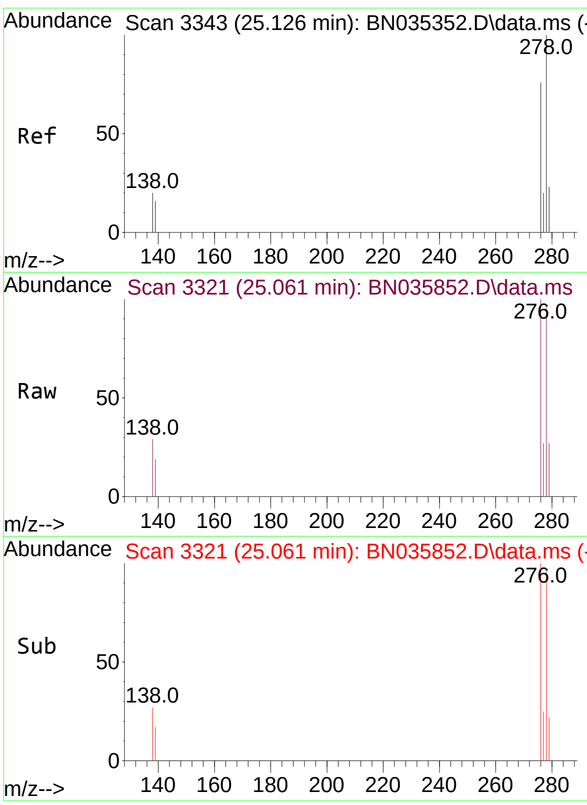
#39
Benzo(a)pyrene
Concen: 0.422 ng
RT: 22.936 min Scan# 2!
Delta R.T. -0.015 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:252 Resp: 11624

Ion	Ratio	Lower	Upper
252	100		
253	29.0	20.2	30.4
125	18.0	10.9	16.3#

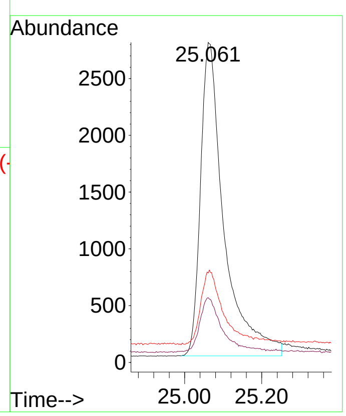


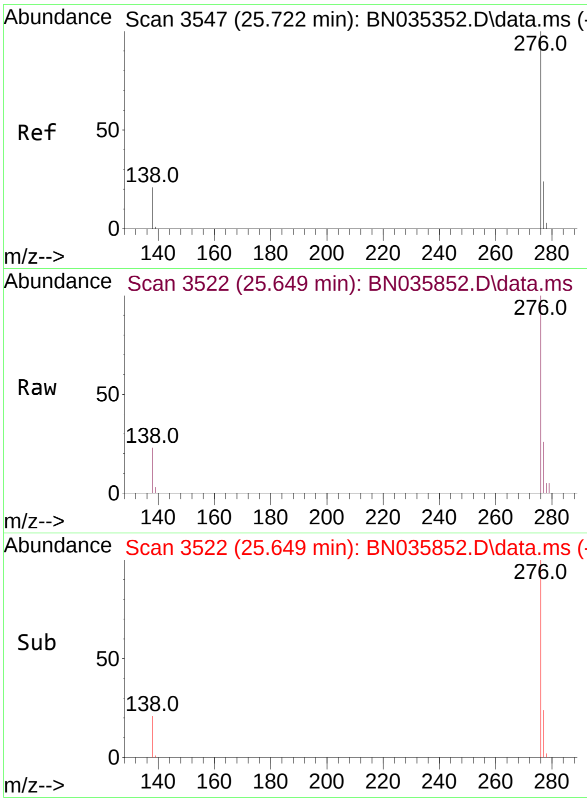


#40
Dibenzo(a,h)anthracene
Concen: 0.414 ng
RT: 25.061 min Scan# 3321
Delta R.T. -0.021 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Tgt Ion:278 Resp: 11696

Ion	Ratio	Lower	Upper
278	100		
139	20.2	14.2	21.4
279	28.0	20.5	30.7



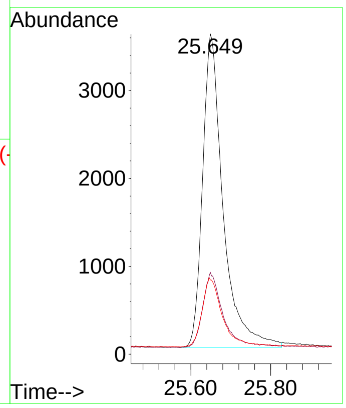


#41
Benzo(g,h,i)perylene
Concen: 0.431 ng
RT: 25.649 min Scan# 3!
Delta R.T. -0.029 min
Lab File: BN035852.D
Acq: 26 Dec 2024 14:19

Instrument :
BNA_N
ClientSampleId :
PB165828BS

Tgt Ion:276 Resp: 12710

Ion	Ratio	Lower	Upper
276	100		
277	25.6	19.9	29.9
138	23.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

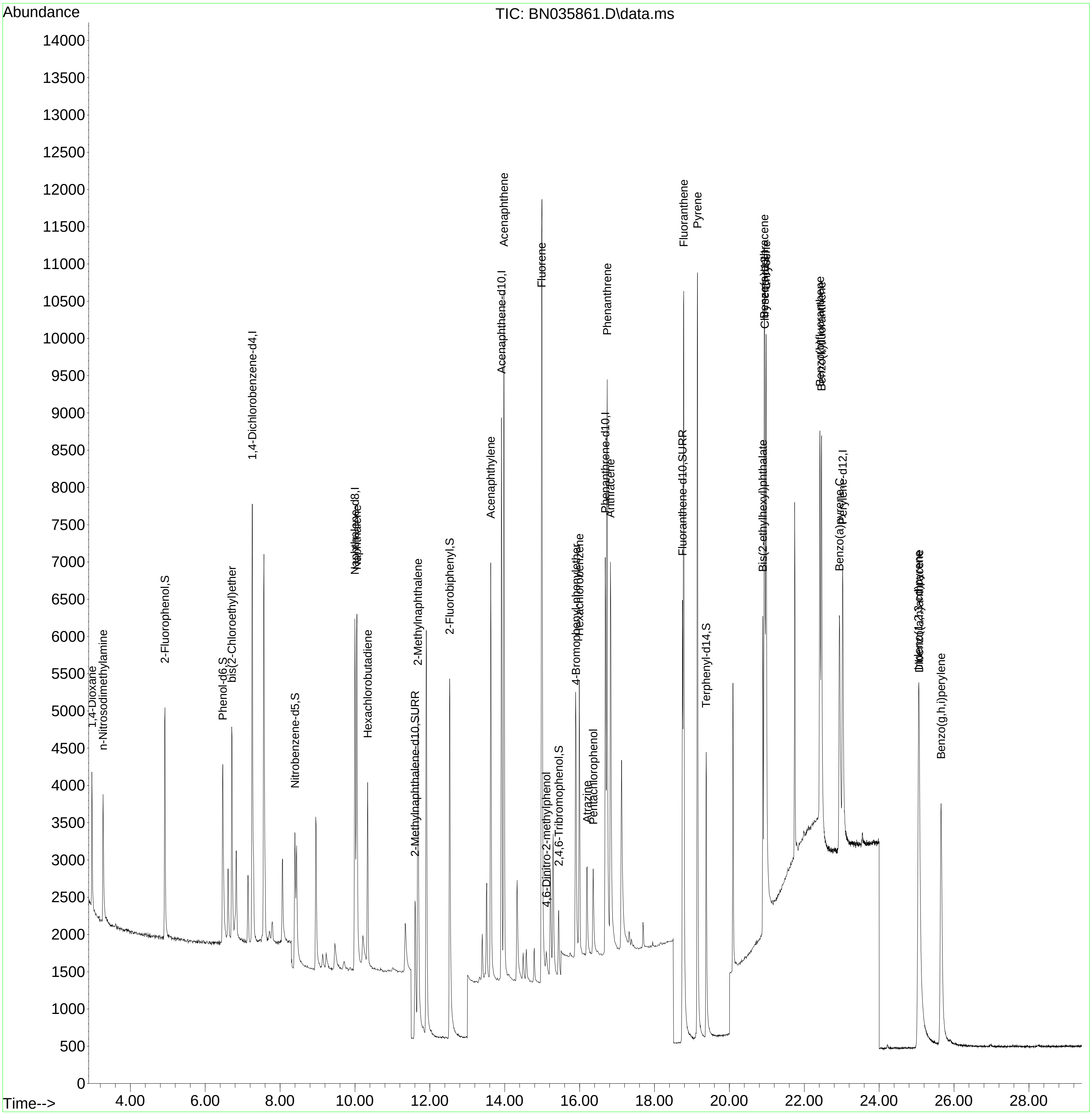
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng	-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng	#-0.01
29) Chrysene-d12	20.947	240	6021	0.400	ng	# 0.00
35) Perylene-d12	23.026	264	5699	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	2874	0.372	ng	-0.01
5) Phenol-d6	6.470	99	3155	0.340	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2397	0.542	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	3987	0.352	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	1008	0.318	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6619	0.392	ng	-0.02
27) Fluoranthene-d10	18.747	212	8643	0.325	ng	-0.01
31) Terphenyl-d14	19.379	244	5407	0.455	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1215	0.412	ng	96
3) n-Nitrosodimethylamine	3.271	42	1021	0.415	ng	# 90
6) bis(2-Chloroethyl)ether	6.708	93	2725	0.349	ng	98
9) Naphthalene	10.052	128	7516	0.394	ng	100
10) Hexachlorobutadiene	10.340	225	1992	0.452	ng	# 99
12) 2-Methylnaphthalene	11.682	142	4745	0.347	ng	99
16) Acenaphthylene	13.625	152	6923	0.369	ng	100
17) Acenaphthene	13.978	154	4776	0.383	ng	99
18) Fluorene	14.983	166	6478	0.363	ng	99
20) 4,6-Dinitro-2-methylph...	15.111	198	453	0.492	ng	# 67
21) 4-Bromophenyl-phenylether	15.904	248	2071	0.378	ng	# 96
22) Hexachlorobenzene	15.991	284	3015	0.468	ng	98
23) Atrazine	16.202	200	1507	0.386	ng	94
24) Pentachlorophenol	16.363	266	846	0.302	ng	# 84
25) Phenanthrene	16.736	178	9697	0.377	ng	100
26) Anthracene	16.822	178	8100	0.348	ng	99
28) Fluoranthene	18.780	202	11145	0.321	ng	99
30) Pyrene	19.147	202	11492	0.517	ng	99
32) Benzo(a)anthracene	20.929	228	6901	0.328	ng	99
33) Chrysene	20.983	228	9578	0.441	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	4069	0.489	ng	99
36) Indeno(1,2,3-cd)pyrene	25.050	276	9030	0.405	ng	98
37) Benzo(b)fluoranthene	22.418	252	11803	0.566	ng	# 92
38) Benzo(k)fluoranthene	22.459	252	9638	0.470	ng	# 90
39) Benzo(a)pyrene	22.939	252	6641	0.387	ng	# 82
40) Dibenzo(a,h)anthracene	25.070	278	6633	0.377	ng	# 91
41) Benzo(g,h,i)perylene	25.652	276	8300	0.452	ng	95

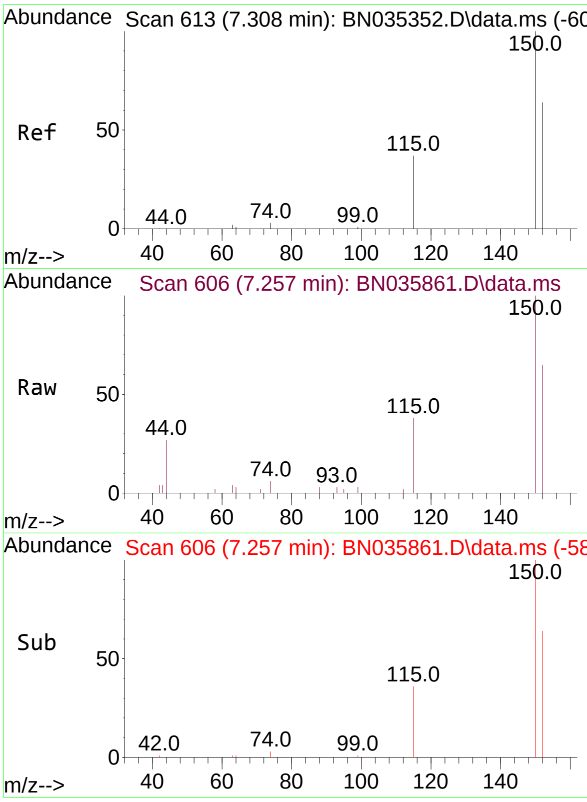
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



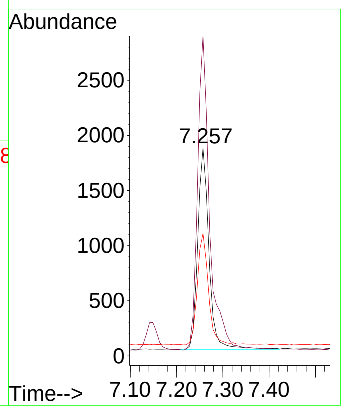


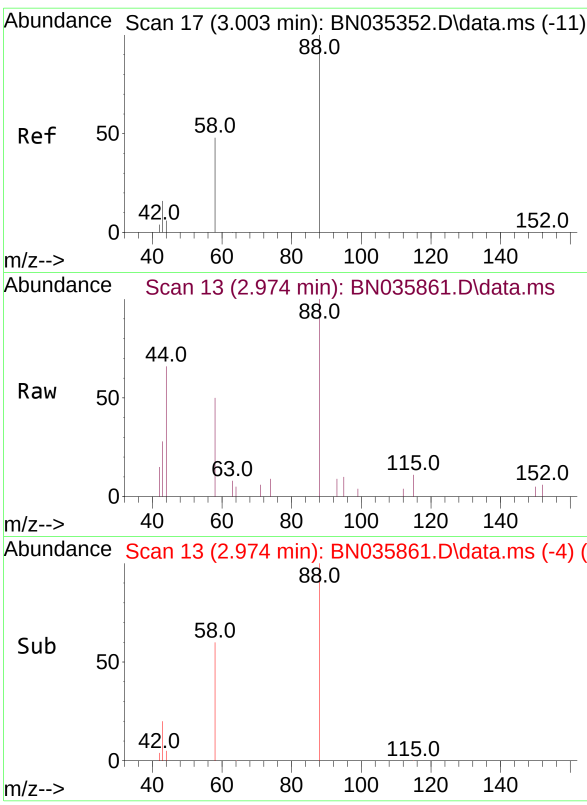
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min   Scan# 6
Delta R.T.   -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3087

Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4

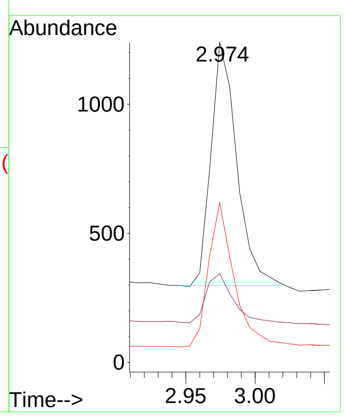


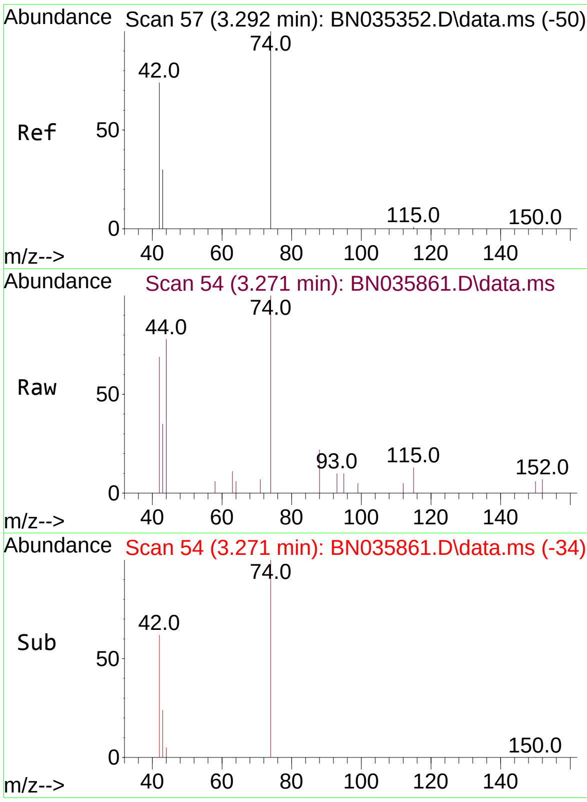


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min   Scan# 13
Delta R.T.   -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion: 88 Resp: 1215

Ion	Ratio	Lower	Upper
88	100		
43	20.1	17.2	25.8
58	59.1	44.5	66.7



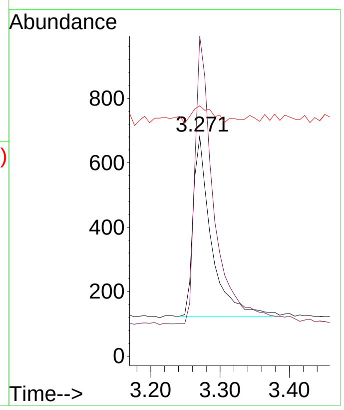


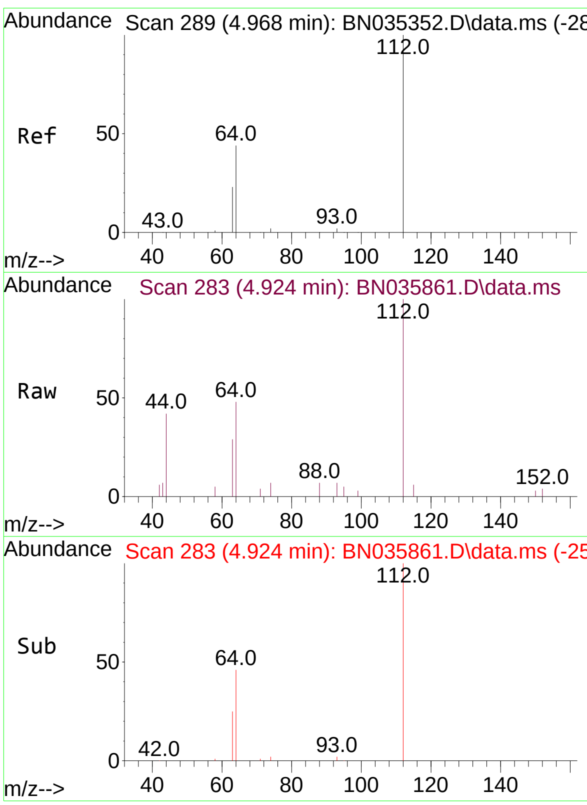
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min   Scan# 54
Delta R.T.   -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1021

Ion	Ratio	Lower	Upper
42	100		
74	169.1	124.9	187.3
44	10.6	2.2	3.4#

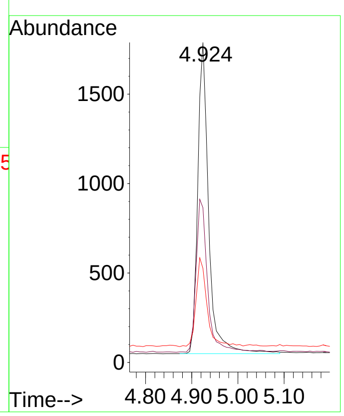


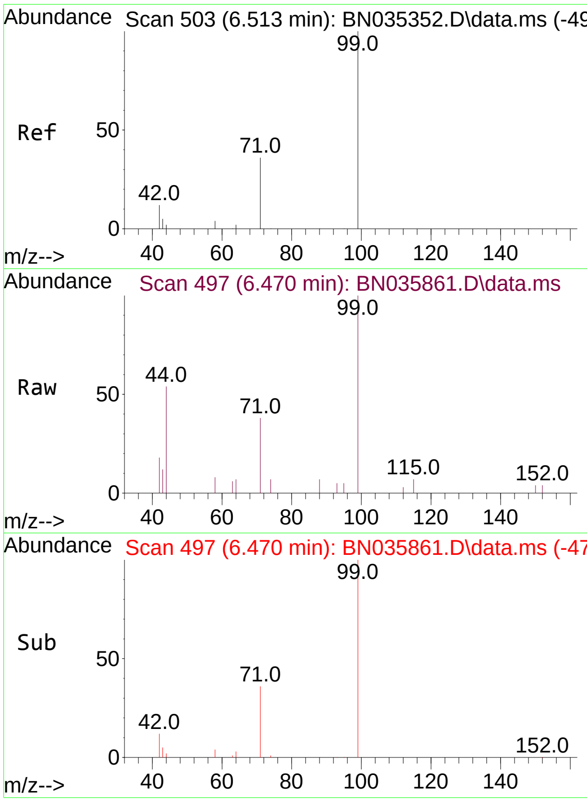


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min   Scan# 283
Delta R.T.   -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion:112 Resp: 2874

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.9	21.0	31.6



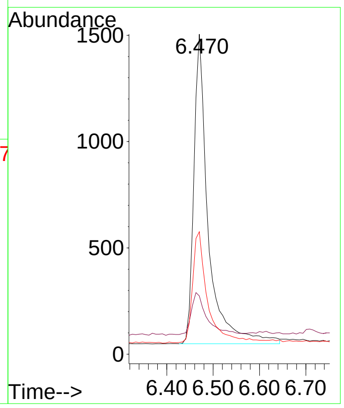


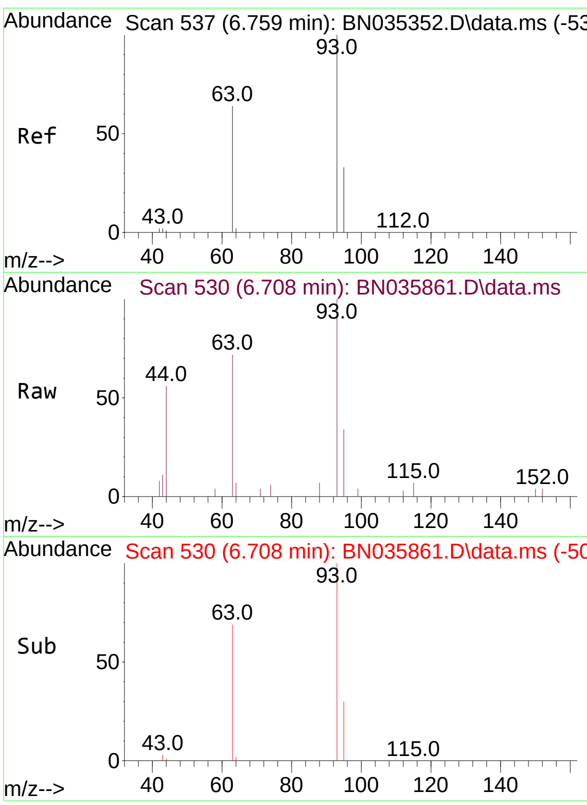
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min   Scan# 49
Delta R.T.   -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3155

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.4	17.2
71	37.3	29.3	43.9

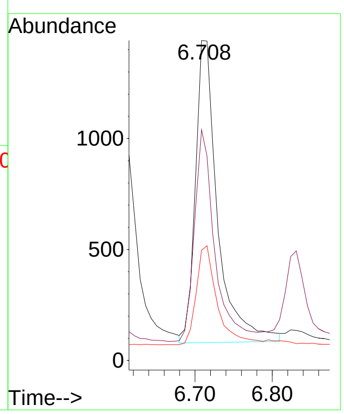


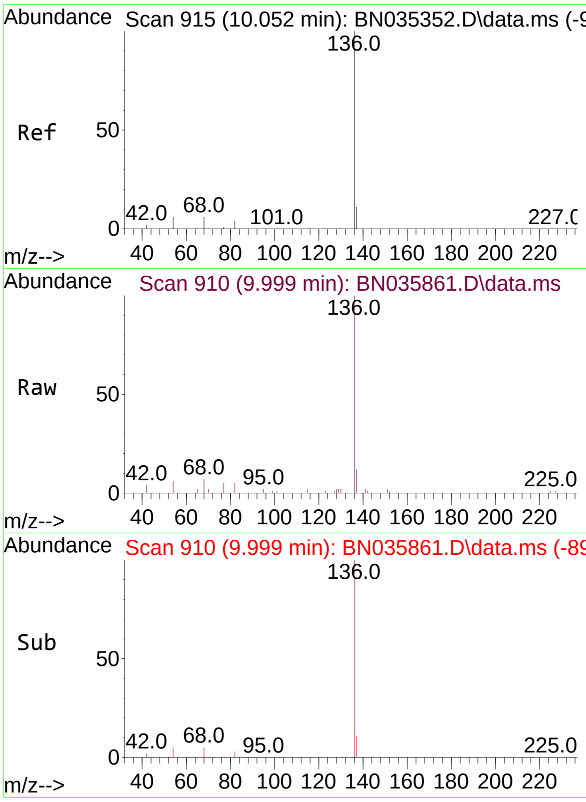


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min   Scan# 530
Delta R.T.   -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024   19:41

Tgt Ion: 93 Resp: 2725

Ion	Ratio	Lower	Upper
93	100		
63	64.1	50.4	75.6
95	31.0	25.7	38.5



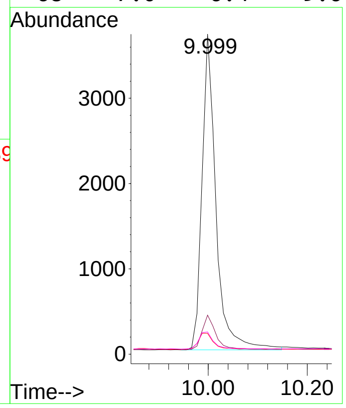


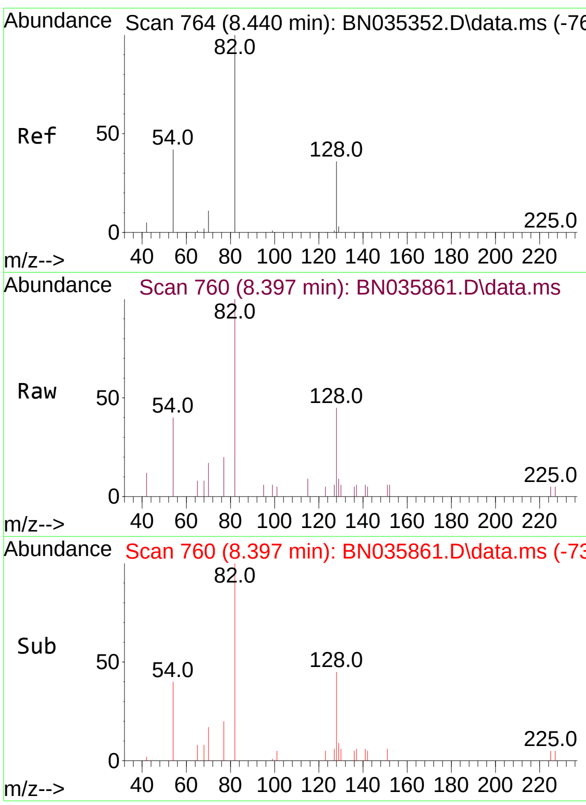
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 7239

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.5	6.1	9.1
68	7.0	6.4	9.6

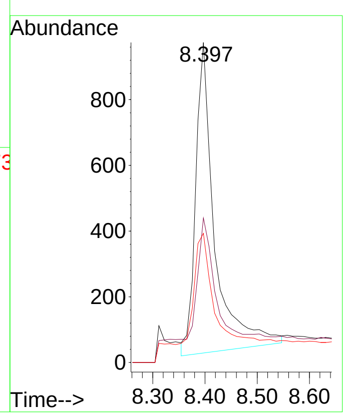


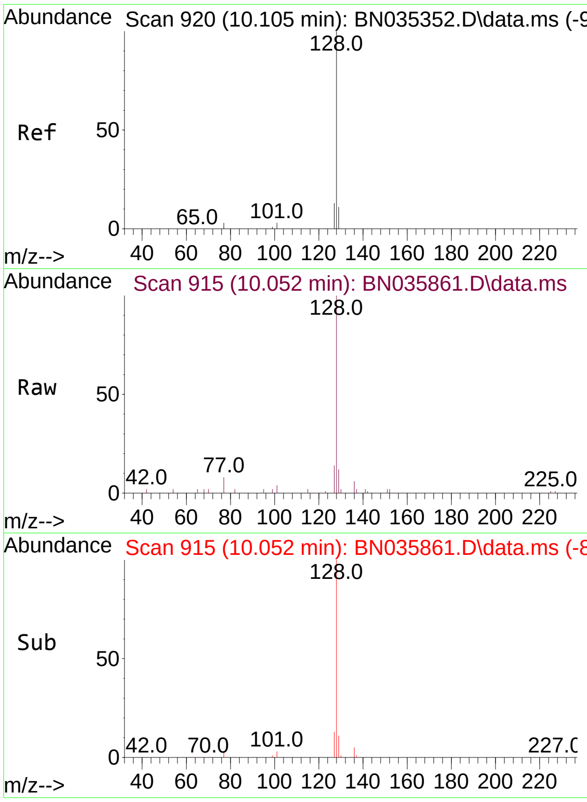


#8
Nitrobenzene-d5
Concen: 0.542 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion: 82 Resp: 2397

Ion	Ratio	Lower	Upper
82	100		
128	45.2	33.4	50.0
54	40.3	36.7	55.1





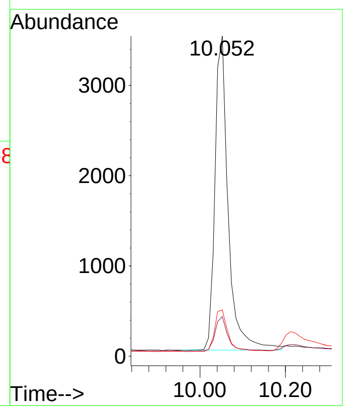
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9

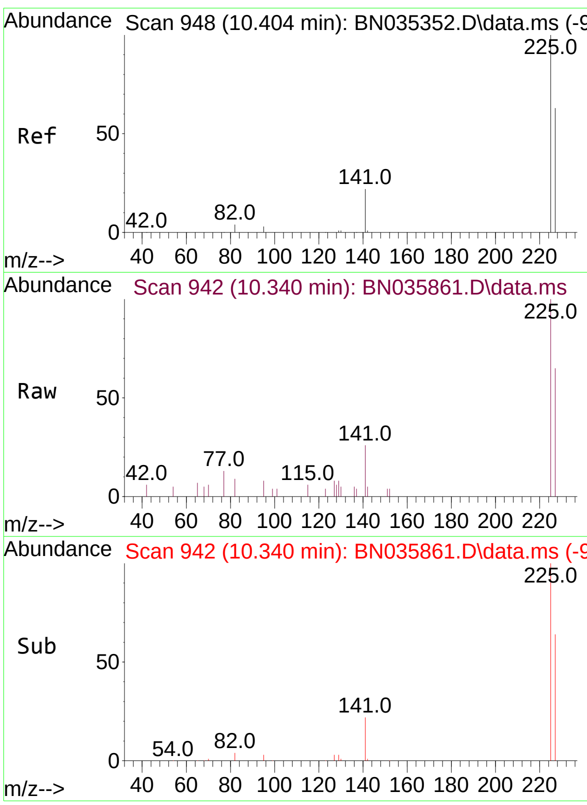
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T.   -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:128 Resp: 7516

Ion	Ratio	Lower	Upper
128	100		
129	12.4	9.8	14.6
127	14.5	11.4	17.2

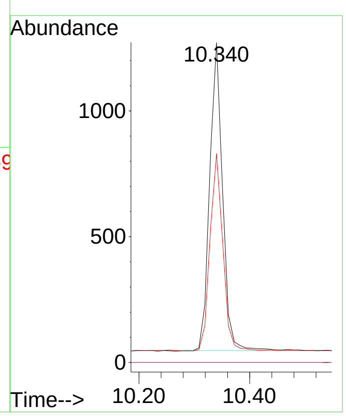


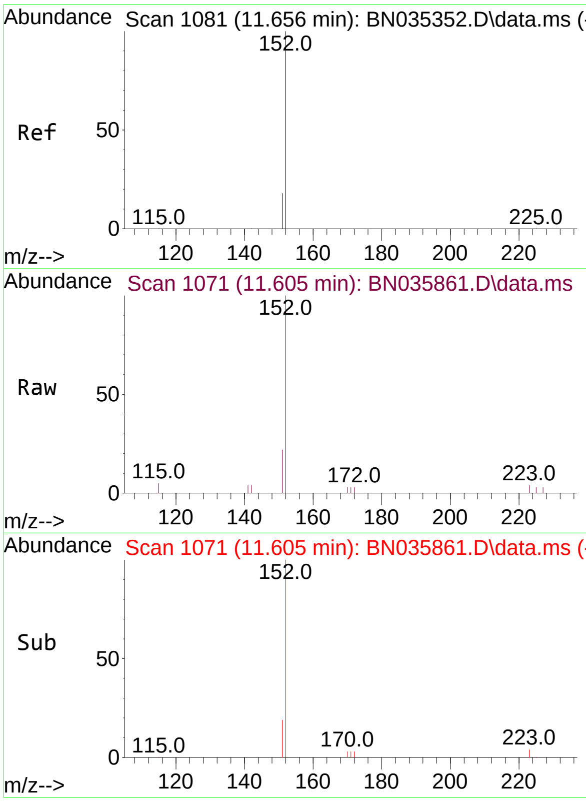


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T.   -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:225 Resp: 1992

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



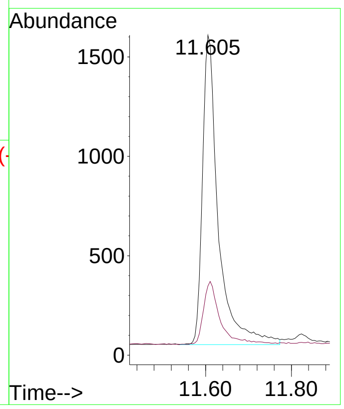


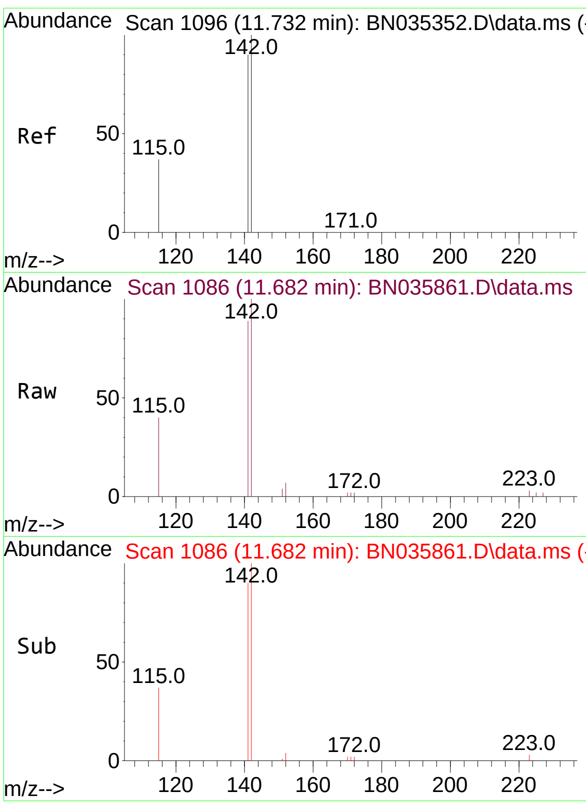
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 10
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3987

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

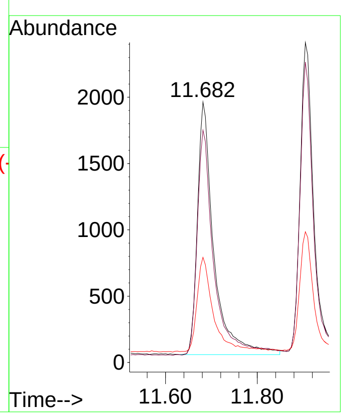


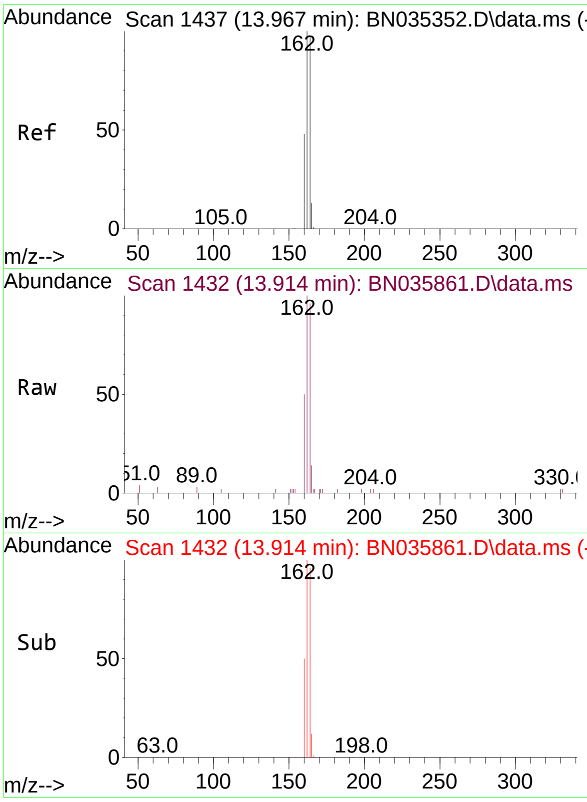


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:142 Resp: 4745

Ion	Ratio	Lower	Upper
142	100		
141	89.2	72.2	108.4
115	40.4	31.4	47.0



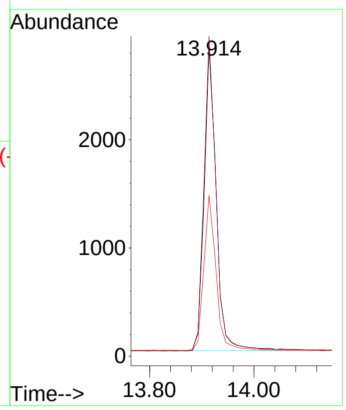


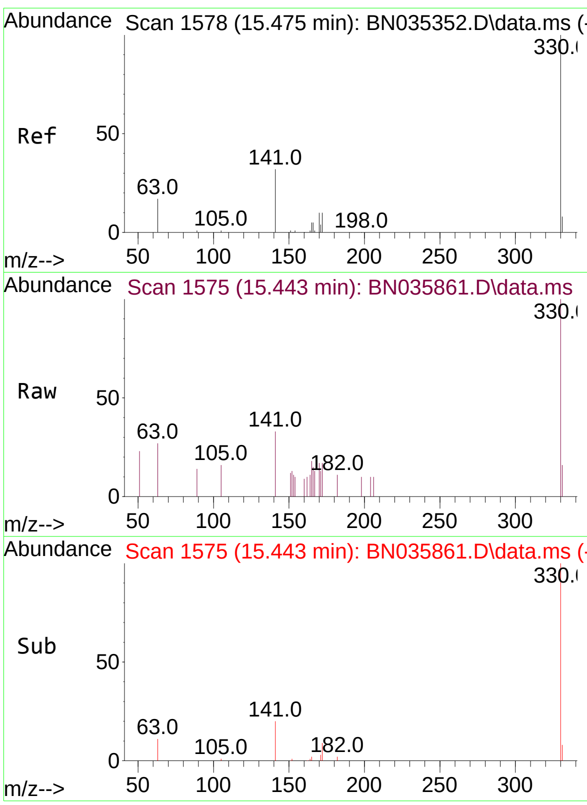
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 4472

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.3	40.1	60.1

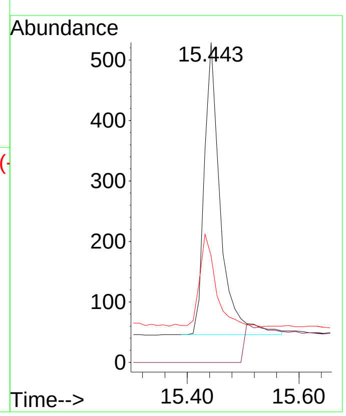


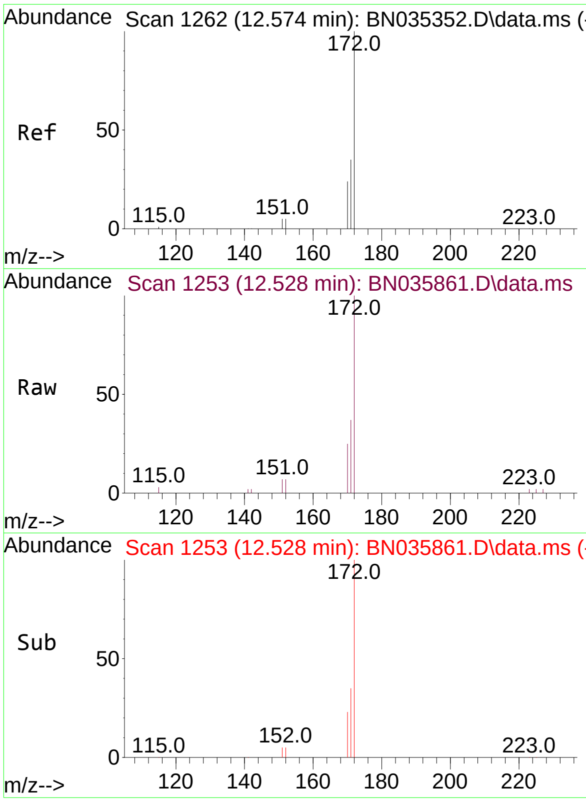


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:330 Resp: 1008

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.5	26.6	40.0



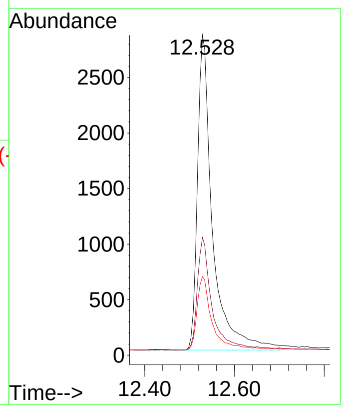


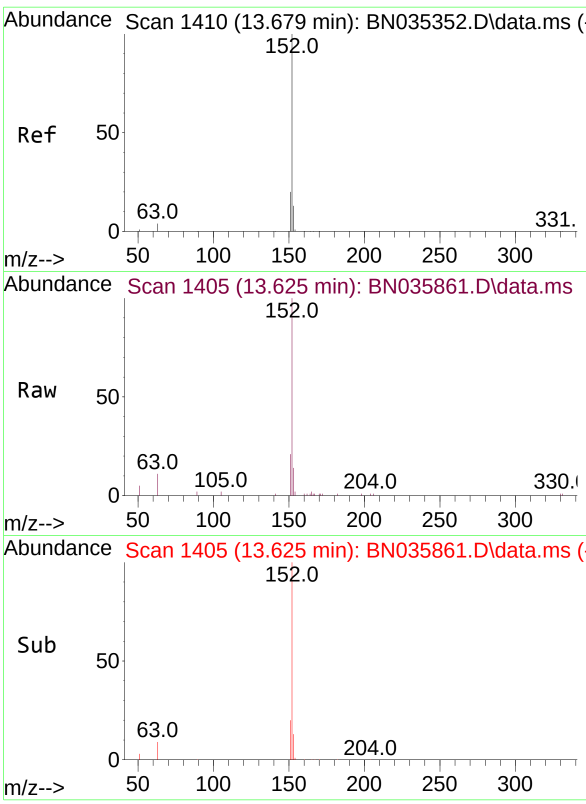
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 6619

Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.0	43.4
170	24.5	19.8	29.8

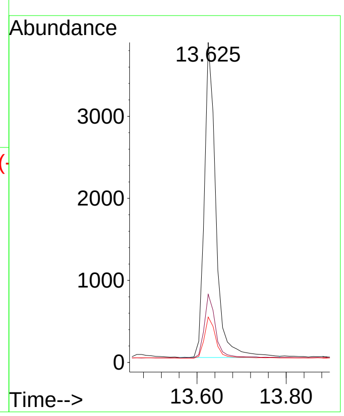


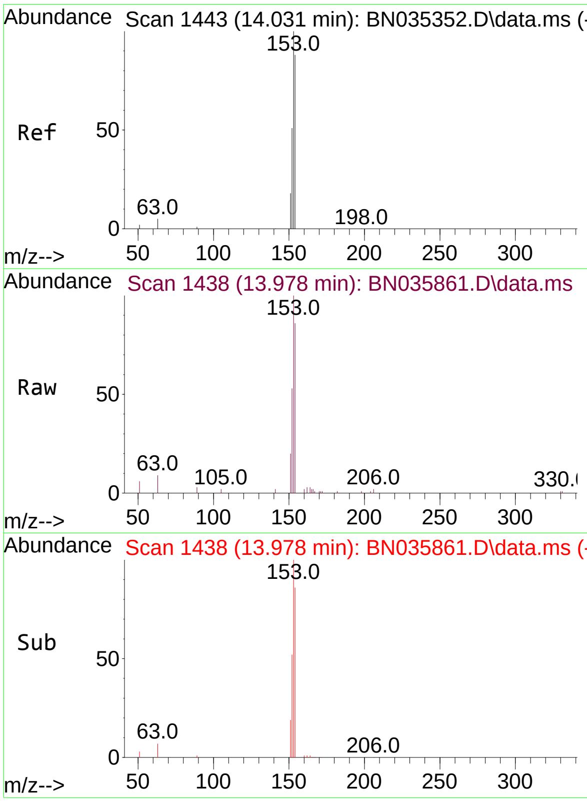


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 6923

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.0	10.4	15.6



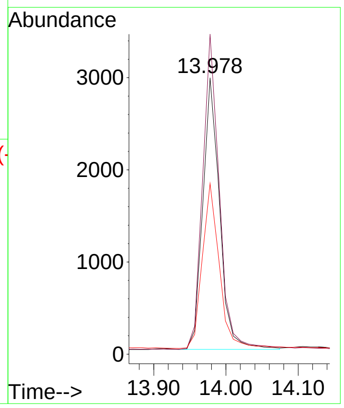


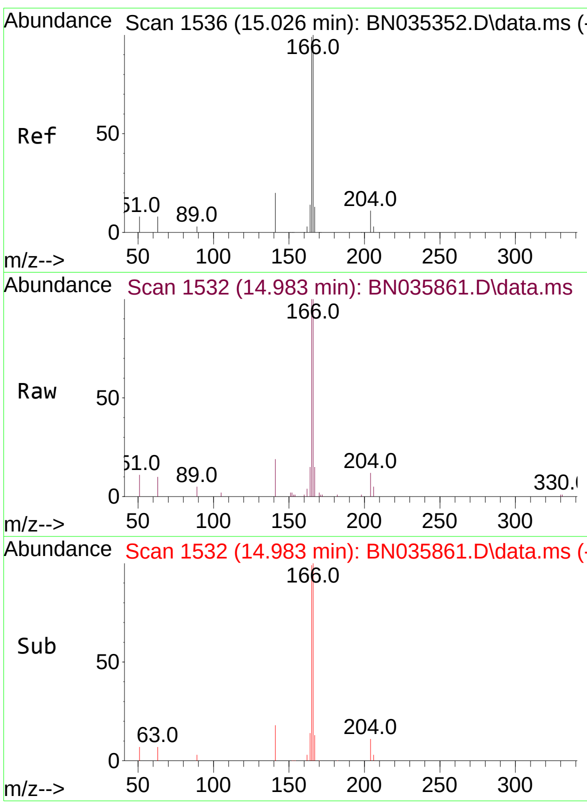
#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 4776

Ion	Ratio	Lower	Upper
154	100		
153	116.3	92.6	139.0
152	62.6	49.0	73.6

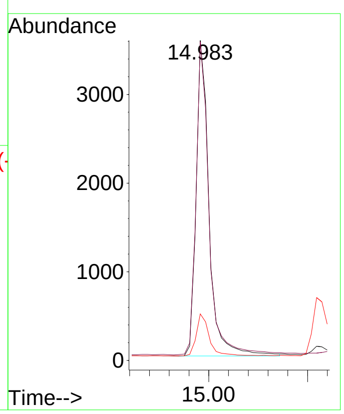


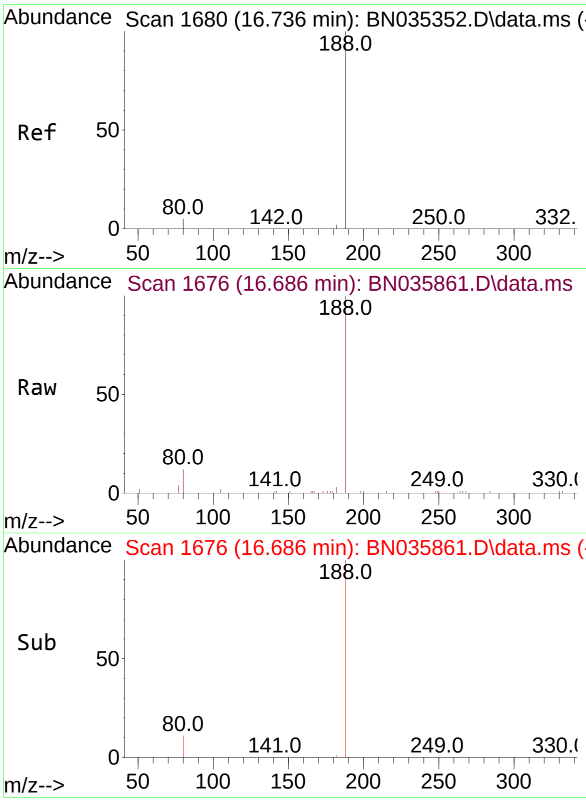


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:166 Resp: 6478

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.7	119.5
167	13.6	10.8	16.2



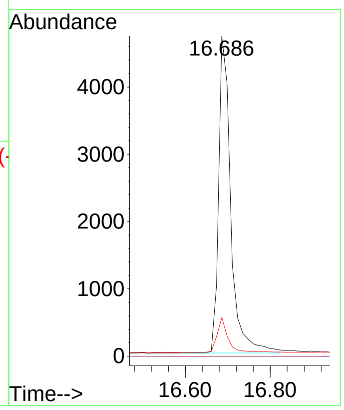


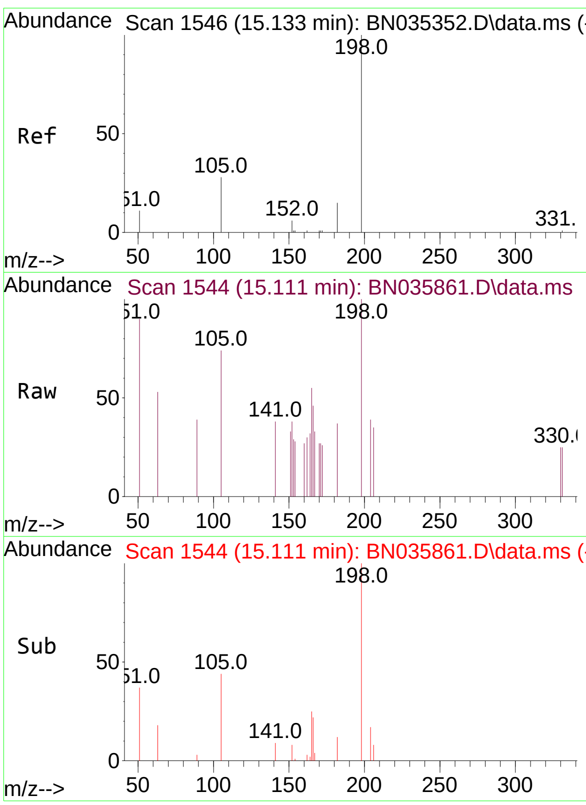
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 9373

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

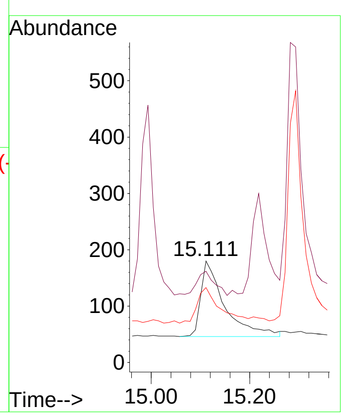


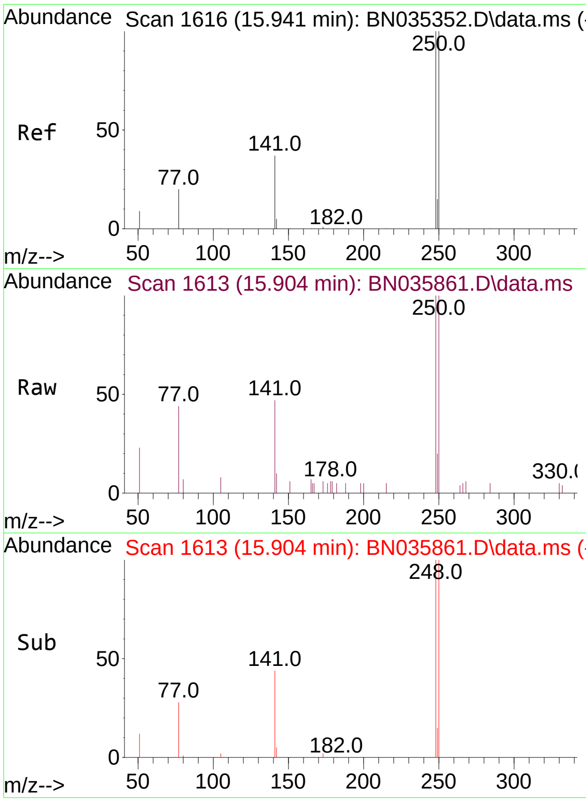


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:198 Resp: 453

Ion	Ratio	Lower	Upper
198	100		
51	90.0	46.5	69.7#
105	73.9	45.3	67.9#



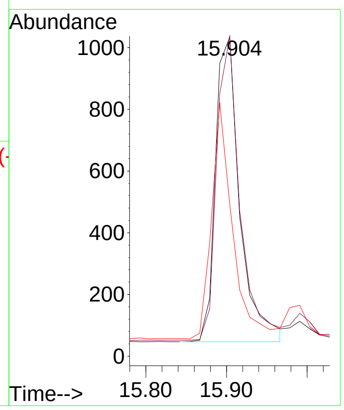


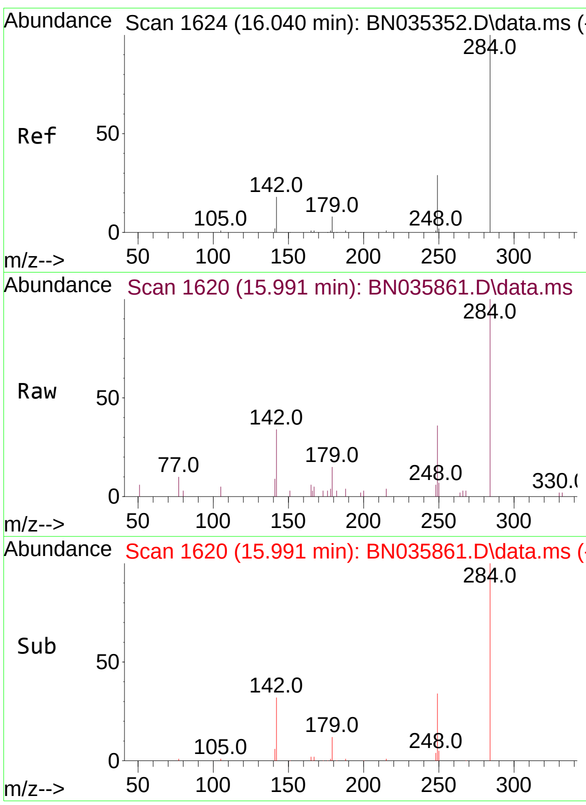
#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2071

Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.6	120.8
141	47.4	31.5	47.3#

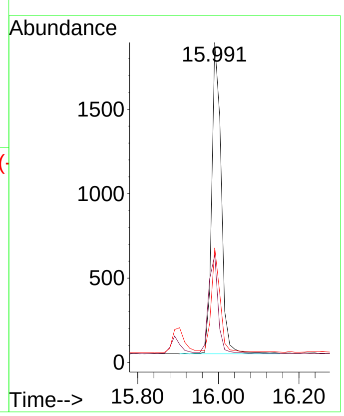


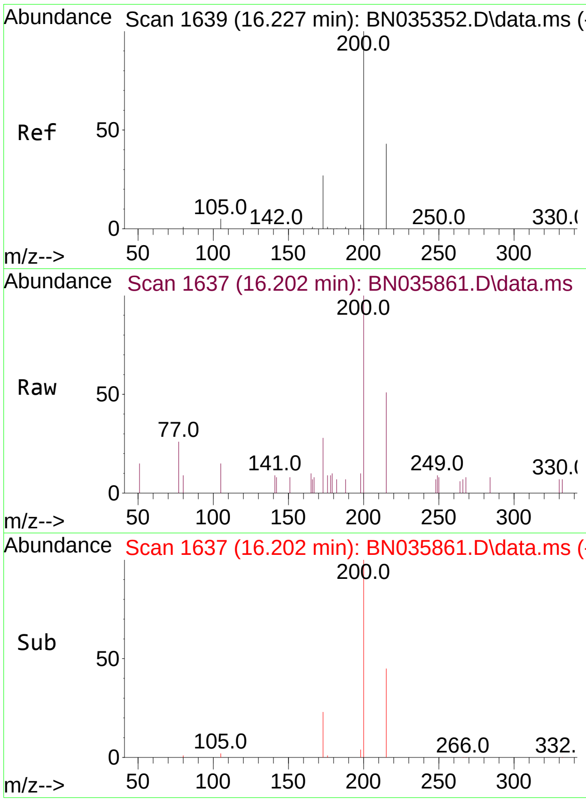


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:284 Resp: 3015

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.7	40.1
249	31.2	24.6	36.8

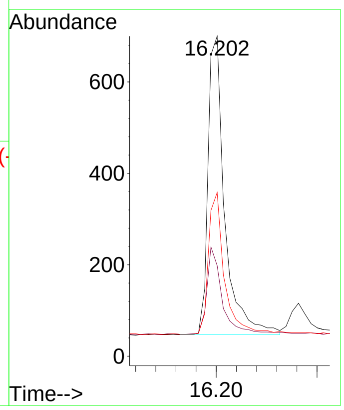


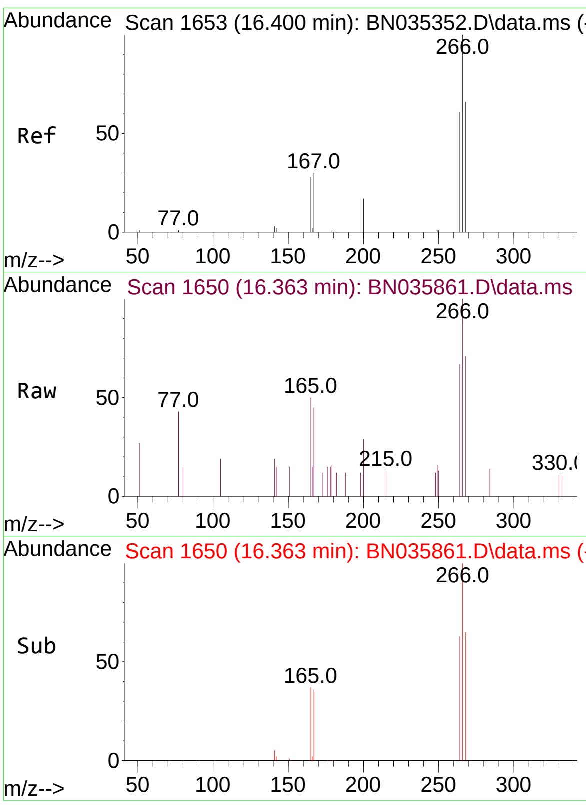


#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1
Delta R.T.   -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

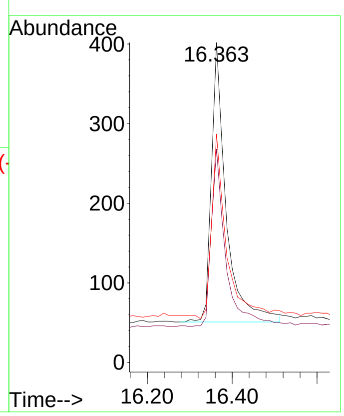
Tgt Ion:200	Resp:		1507
Ion	Ratio	Lower	Upper
200	100		
173	28.3	24.1	36.1
215	51.1	36.9	55.3

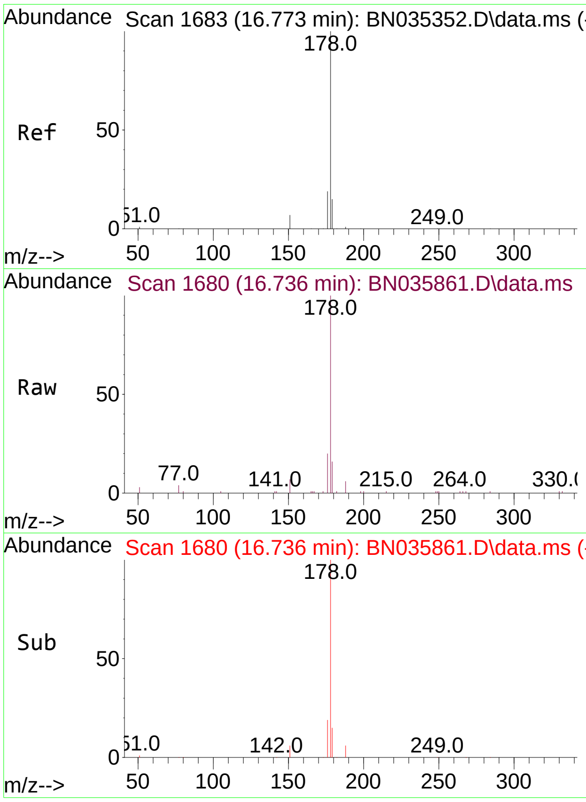




#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T.   -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:266	Resp:		846
Ion	Ratio	Lower	Upper
266	100		
264	62.3	42.3	63.5
268	67.7	43.3	64.9#



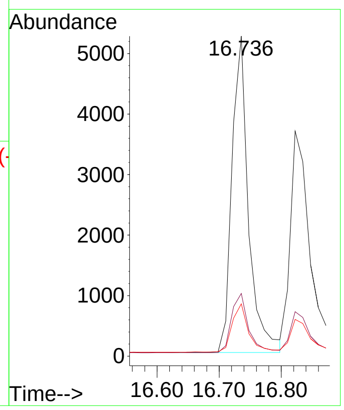


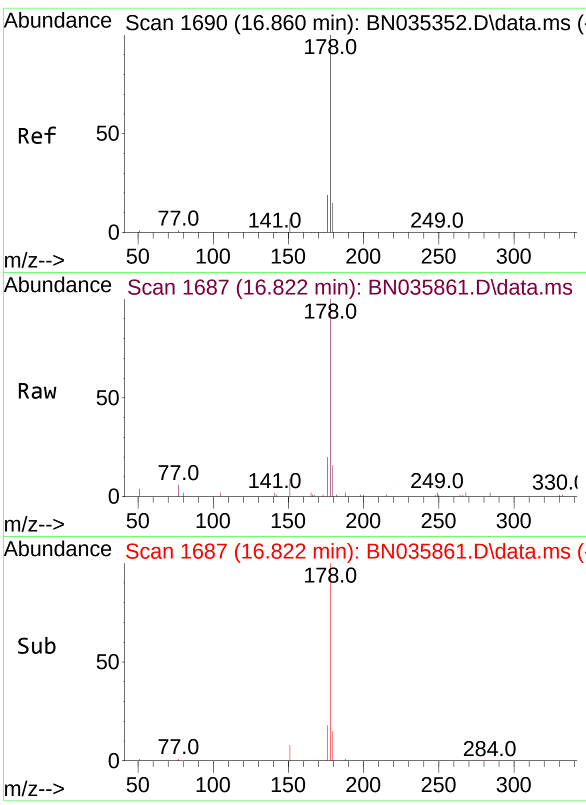
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 9697

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.3	12.3	18.5

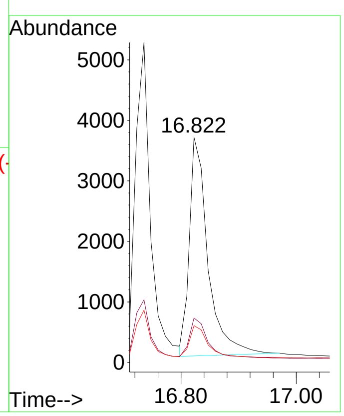


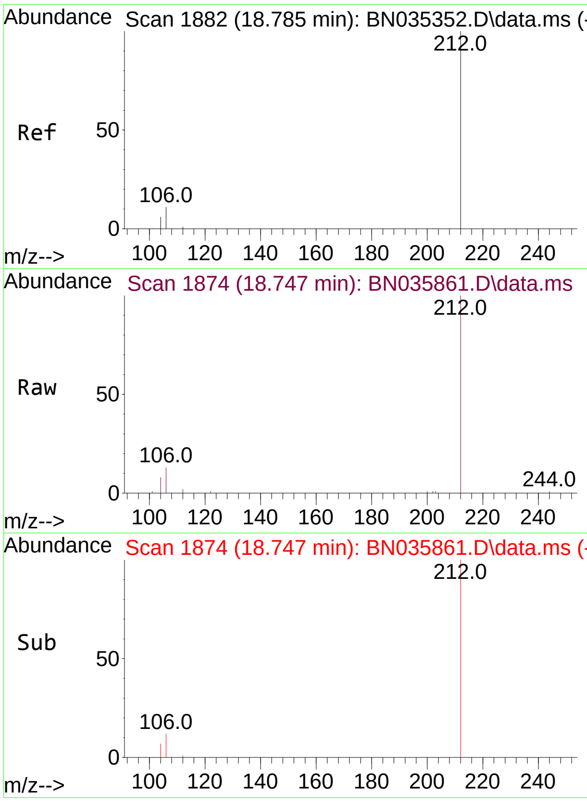


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:178 Resp: 8100

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.3	12.6	18.8





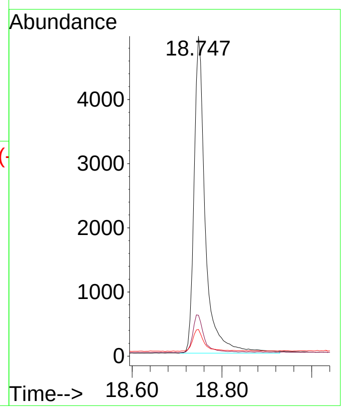
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1

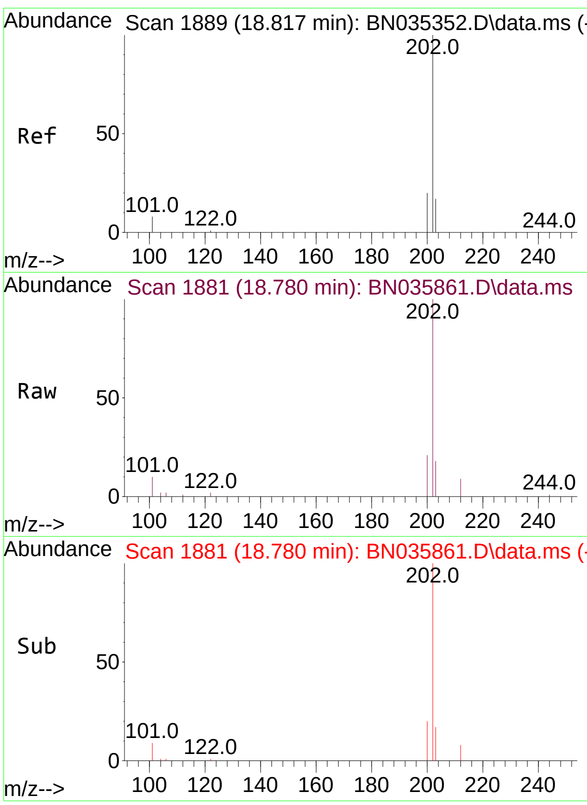
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:212 Resp: 8643

Ion	Ratio	Lower	Upper
212	100		
106	11.7	9.2	13.8
104	7.0	5.3	7.9

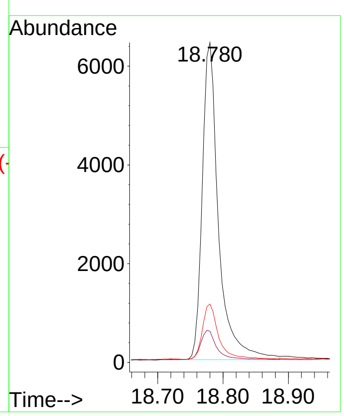


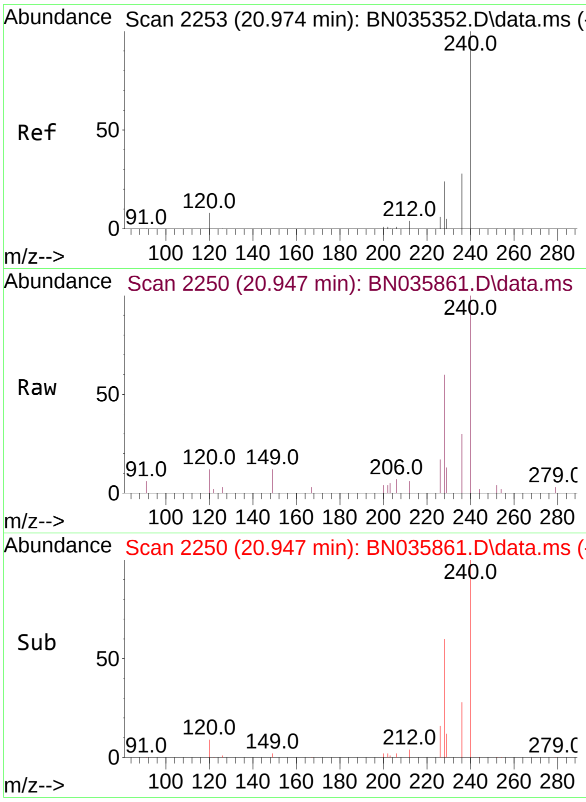


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11145

Ion	Ratio	Lower	Upper
202	100		
101	9.7	7.4	11.0
203	17.4	13.7	20.5



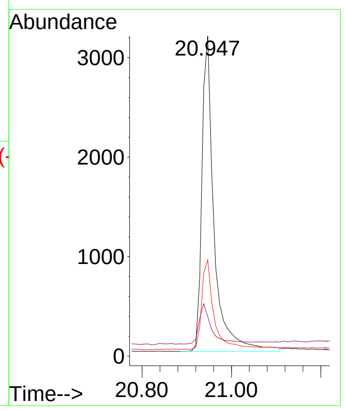


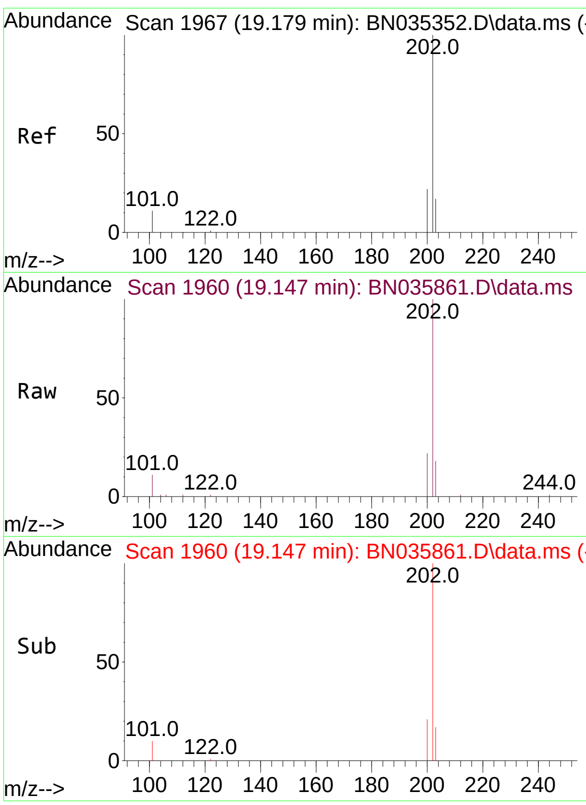
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 6021

Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.9	11.9#
236	30.1	22.9	34.3

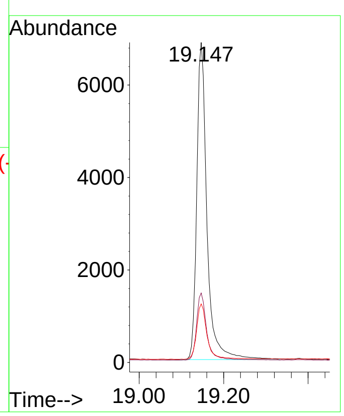


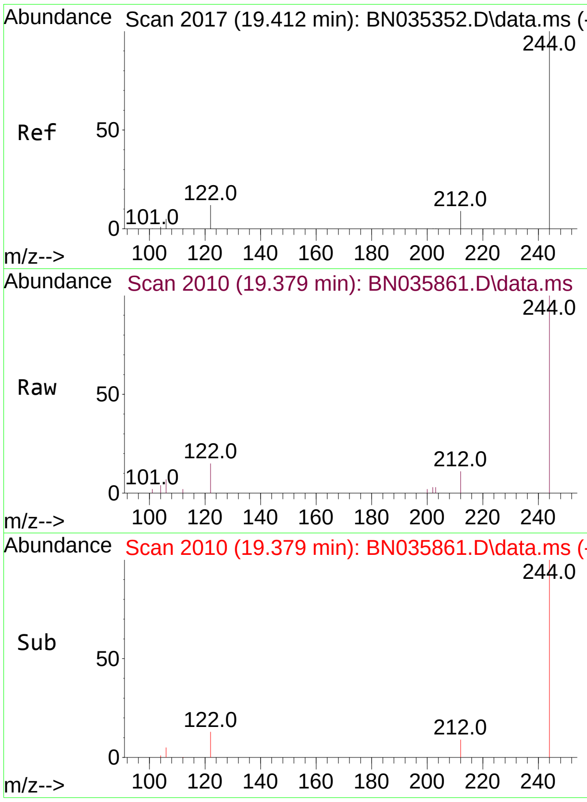


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:202 Resp: 11492

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	18.0	14.3	21.5



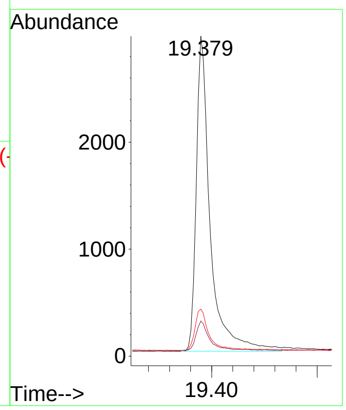


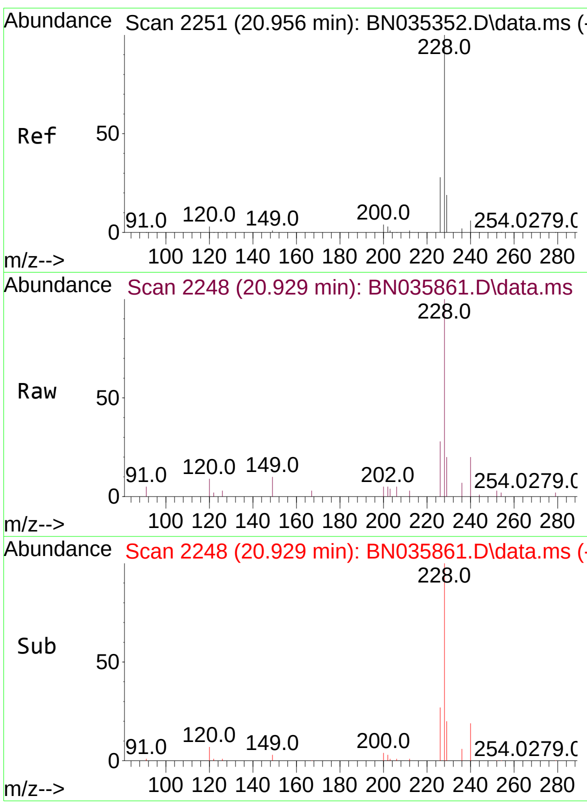
#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 5407

Ion	Ratio	Lower	Upper
244	100		
212	11.0	8.1	12.1
122	14.7	10.3	15.5

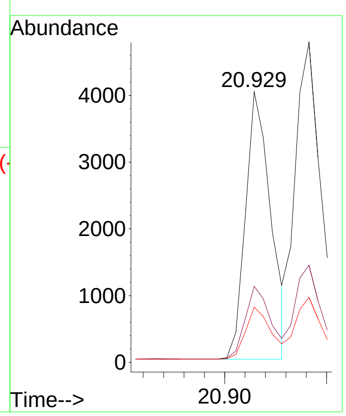


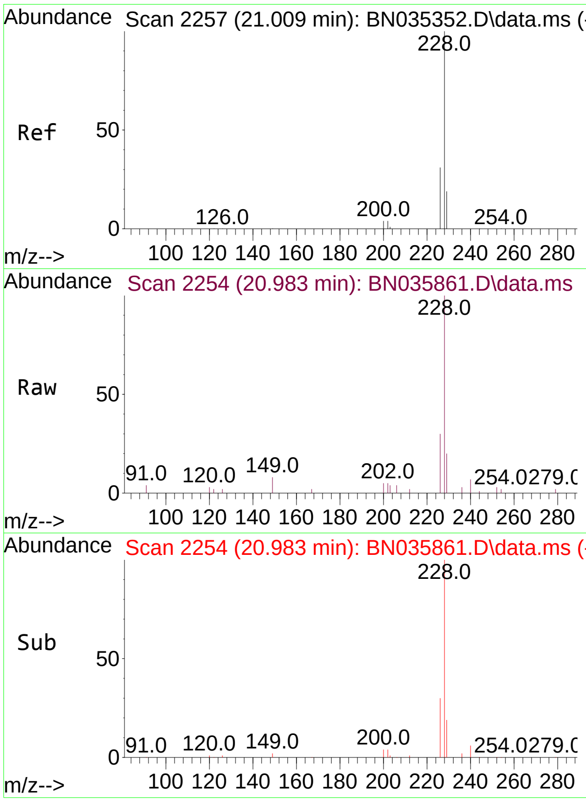


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:228 Resp: 6901

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	20.5	15.8	23.8



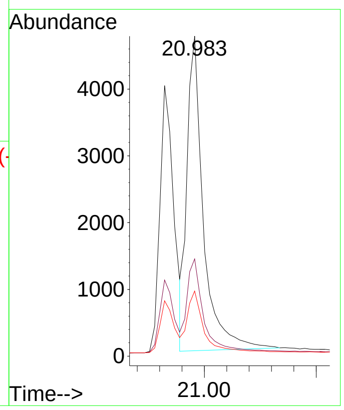


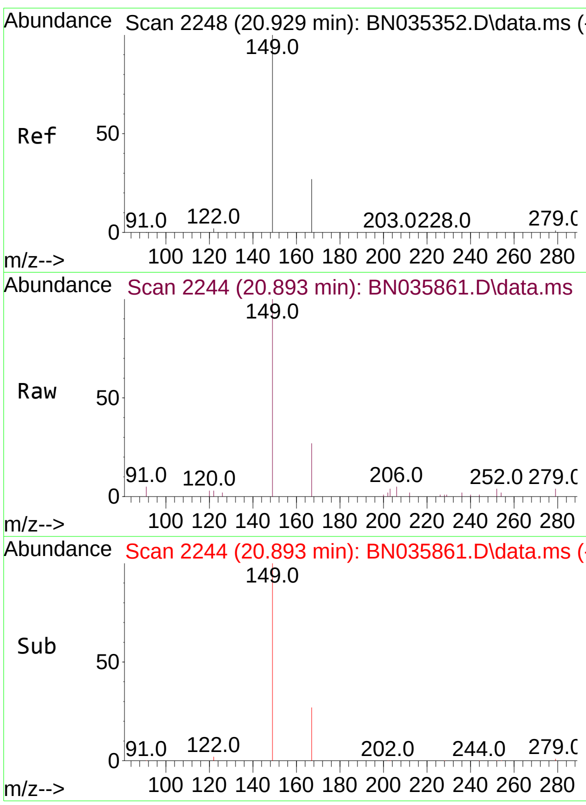
#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 9578

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.3	15.9	23.9

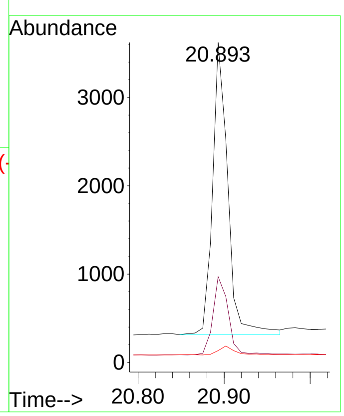


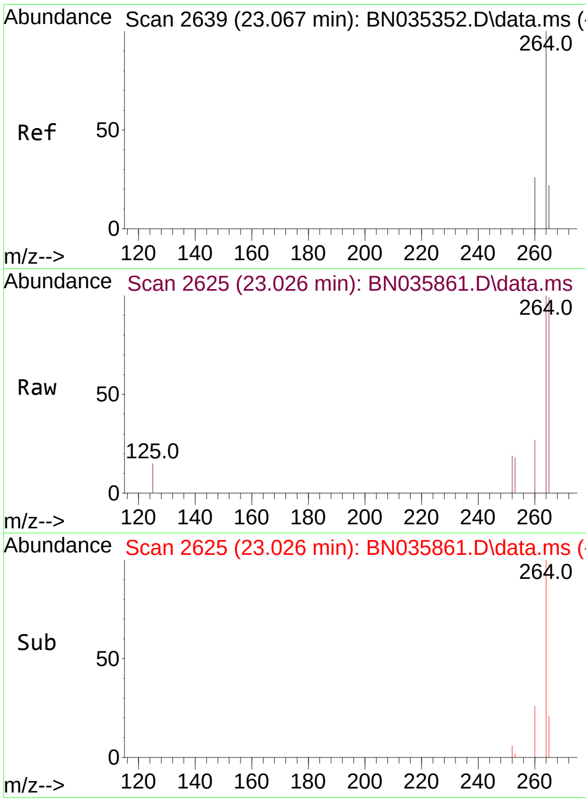


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:149 Resp: 4069

Ion	Ratio	Lower	Upper
149	100		
167	27.2	22.2	33.4
279	3.2	2.7	4.1





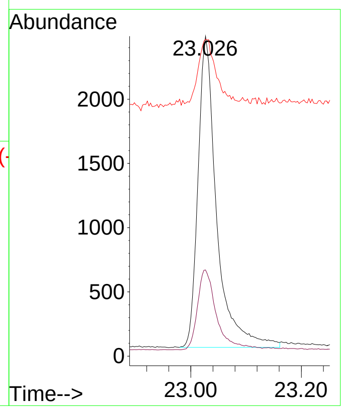
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2

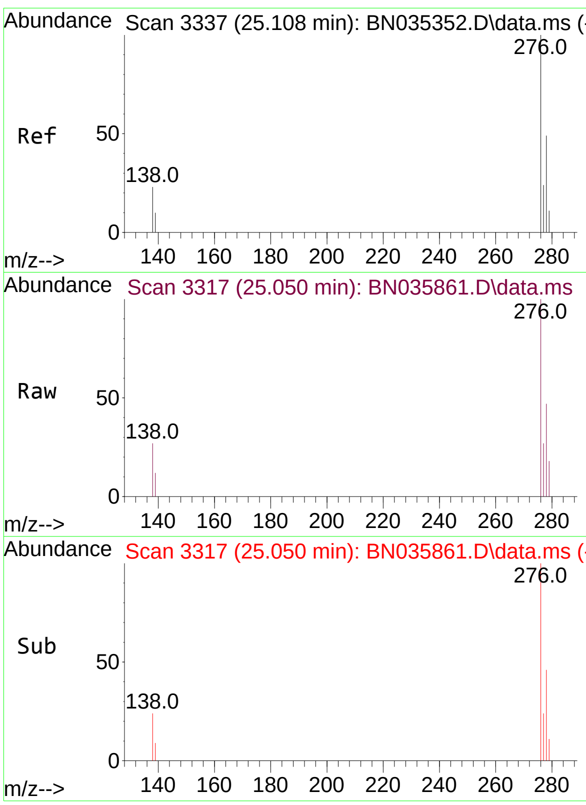
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:264 Resp: 5699

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.4	32.2
265	99.1	40.2	60.4#

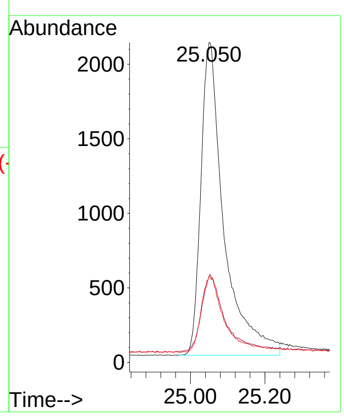


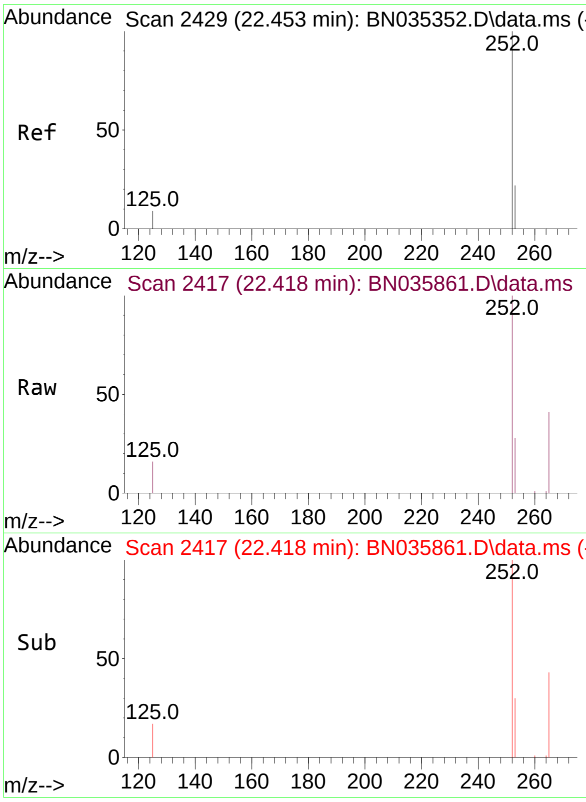


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:276 Resp: 9030

Ion	Ratio	Lower	Upper
276	100		
138	24.8	19.4	29.0
277	23.4	19.8	29.6



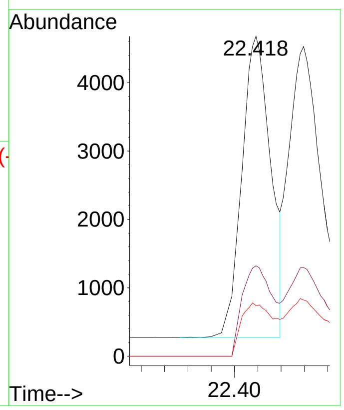


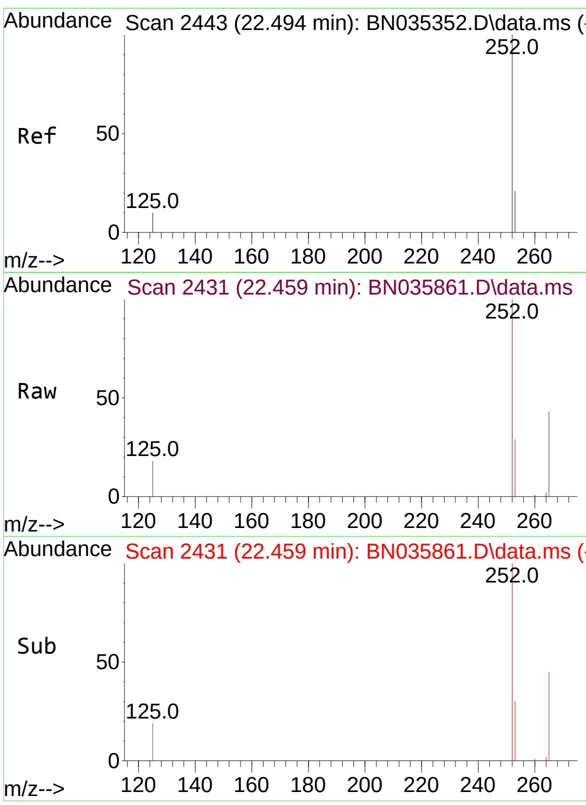
#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 11803

Ion	Ratio	Lower	Upper
252	100		
253	28.3	19.6	29.4
125	15.8	9.6	14.4#

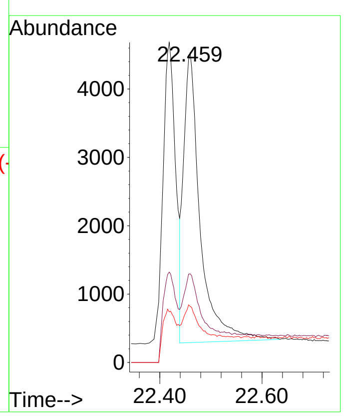


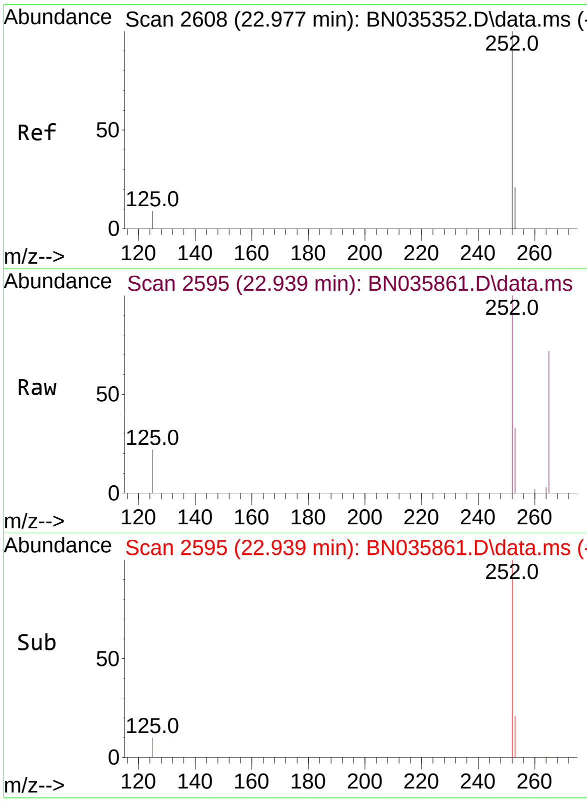


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 9638

Ion	Ratio	Lower	Upper
252	100		
253	28.6	19.5	29.3
125	18.2	10.2	15.4#





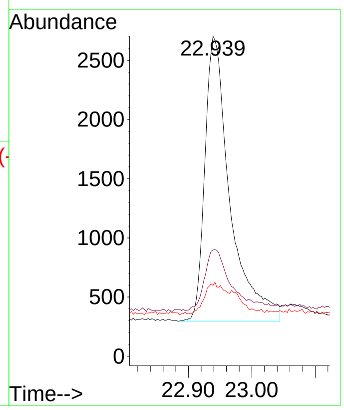
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2!

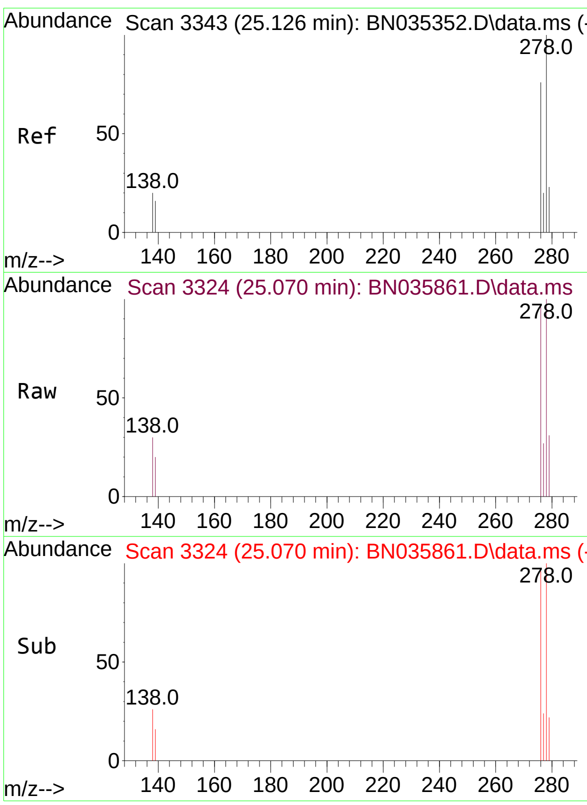
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:252 Resp: 6641

Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#

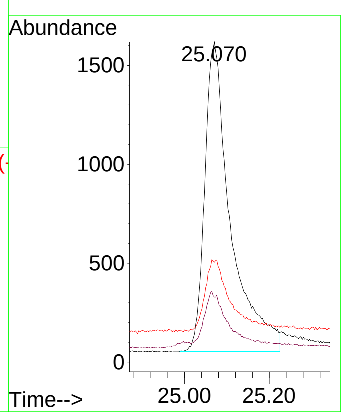


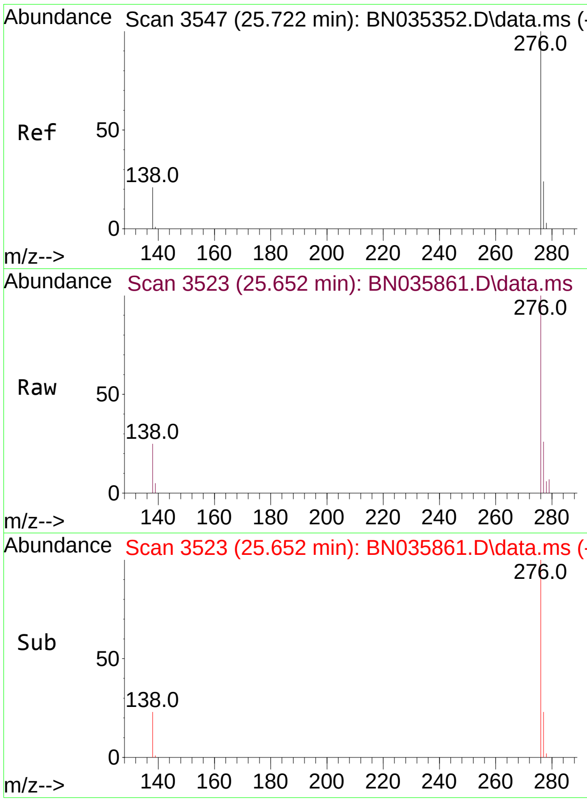


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#





#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 8300

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	25.5	17.8	26.8