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Cover Page

Order ID : P5314

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
P5314-01	BP-VPB-190A-TB-20241213
P5314-02	BP-VPB-190A-GW-678-680
P5314-03	BP-VPB-190A-GW-698-700
P5314-04	VPB190A-HYD-20241217

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

Signature : _____

Date: 12/30/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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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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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P5314**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **SHREENA PATEL** **Date:** **12/30/2024**

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LAB CHRONICLE

OrderID:	P5314	**OrderDate:**	12/17/2024 3:43:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	CTO WE13
Contact:	Ernie Wu	**Location:**	L51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5314-02	**BP-VPB-190A-GW-678-680**	**Water**			**12/13/24**			**12/17/24**
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24	
P5314-04	**VPB190A-HYD-20241217**	**Water**			**12/17/24**			**12/17/24**
			SVOC-SIMGroup1	8270-Modified		12/18/24	12/23/24	

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Hit Summary Sheet
SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**BP-VPB-190A-GW-678-680**							
P5314-02	BP-VPB-190A-GW-678-I WATER	1,4-Dioxane	1.400		0.09	0.25	0.25	ug/L
		Total Svoc :			**1.40**			
		Total Concentration:			**1.40**			

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5314-02	BP-VPB-190A-GW-678-680	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.41	101		30	150
		Nitrobenzene-d5	0.4	0.41	102		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.56	140	*	58	132
P5314-04	VPB190A-HYD-20241217	2-Methylnaphthalene-d10	0.4	0.13	34		30	150
		Fluoranthene-d10	0.4	0.17	43		30	150
		Nitrobenzene-d5	0.4	0.42	104		55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.68	170	*	58	132
PB165724BL	PB165724BL	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.38	95		30	150
		Nitrobenzene-d5	0.4	0.46	114	*	55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
PB165724BS	PB165724BS	2-Methylnaphthalene-d10	0.4	0.56	139		30	150
		Fluoranthene-d10	0.4	0.44	109		30	150
		Nitrobenzene-d5	0.4	0.50	125	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.50	125		58	132
PB165724BSD	PB165724BSD	2-Methylnaphthalene-d10	0.4	0.53	132		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.56	140	*	55	111
		2-Fluorobiphenyl	0.4	0.47	116	*	53	106
		Terphenyl-d14	0.4	0.51	128		58	132

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035764.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165724BS	1,4-Dioxane	0.4	0.48	ug/L	120				70	130	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified **DataFile:** BN035853.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165724BSD	1,4-Dioxane	0.4	0.45	ug/L	113	6			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165724BL

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314

Lab File ID: BN035846.D Lab Sample ID: PB165724BL

Instrument ID: BNA_N Date Extracted: 12/18/2024

Matrix: (soil/water) Water Date Analyzed: 12/26/2024

Level: (low/med) LOW Time Analyzed: 10:35

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024
PB165724BS	PB165724BS	BN035764.D	12/21/2024
BP-VPB-190A-GW-678-680	P5314-02	BN035785.D	12/23/2024
VPB190A-HYD-20241217	P5314-04	BN035786.D	12/23/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5314 SDG NO.: P5314

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.: P5314 SDG NO.: P5314

Lab File ID: BN035748.D DFTPP Injection Date: 12/20/2024

Instrument ID: BNA_N DFTPP Injection Time: 18:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.2
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	37.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.5
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	13.1
442	Greater than 50% of mass 198	80.3
443	15.0 - 24.0% of mass 442	15.3 (19.1) 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	BN035749.D	12/20/2024	19:33
PB165724BS	PB165724BS	BN035764.D	12/21/2024	04:34
SSTDCCC0.4EC	SSTDCCC0.4	BN035765.D	12/21/2024	05:10

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5314 SDG NO.: P5314

Lab File ID: BN035775.D DFTPP Injection Date: 12/23/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	83.1
443	15.0 - 24.0% of mass 442	16.4 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN035776.D	12/23/2024	10:22
BP-VPB-190A-GW-678-680	P5314-02	BN035785.D	12/23/2024	15:41
VPB190A-HYD-20241217	P5314-04	BN035786.D	12/23/2024	16:17
SSTDCCC0.4EC	SSTDCCC0.4	BN035792.D	12/23/2024	19:51

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM SAS No.: P5314 SDG NO.: P5314

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
PB165724BL	PB165724BL	BN035846.D	12/26/2024	10:35
PB165724BSD	PB165724BSD	BN035853.D	12/26/2024	14:54
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.: P5314 SAS No.: P5314 SDG NO.: P5314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	2885	7.272	7460	10.01	4592	13.93
	UPPER LIMIT	5770	7.772	14920	10.509	9184	14.425
	LOWER LIMIT	1442.5	6.772	3730	9.509	2296	13.425
	EPA SAMPLE NO.						
01	PB165724BS	2647	7.27	6538	10.01	3740	13.92

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.: P5314 SAS No.: P5314 SDG NO.: P5314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/20/2024

Lab File ID: BN035749.D Time Analyzed: 19:33

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	9182	16.698	7719	20.956	7943	23.038
	UPPER LIMIT	18364	17.198	15438	21.456	15886	23.538
	LOWER LIMIT	4591	16.198	3859.5	20.456	3971.5	22.538
	EPA SAMPLE NO.						
01	PB165724BS	6891	16.70	6144	20.96	6576	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.: P5314 SAS No.: P5314 SDG NO.: P5314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

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	3884	7.264	10099	10.01	5893	13.92
	UPPER LIMIT	7768	7.764	20198	10.509	11786	14.424
	LOWER LIMIT	1942	6.764	5049.5	9.509	2946.5	13.424
	EPA SAMPLE NO.						
01	BP-VPB-190A-GW-678-680	3452	7.26	8948	10.01	5551	13.92
02	VPB190A-HYD-20241217	4132	7.26	10947	10.01	6411	13.93

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.: P5314 SAS No.: P5314 SDG NO.: P5314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/23/2024

Lab File ID: BN035776.D Time Analyzed: 10:22

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	11548	16.698	8770	20.947	8918	23.026
	UPPER LIMIT	23096	17.198	17540	21.447	17836	23.526
	LOWER LIMIT	5774	16.198	4385	20.447	4459	22.526
	EPA SAMPLE NO.						
01	BP-VPB-190A-GW-678-680	10343	16.70	8364	20.95	8390	23.03
02	VPB190A-HYD-20241217	11585	16.70	7747	20.95	5708	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.: P5314 SAS No.: P5314 SDG NO.: P5314

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	PB165724BL	4513	7.26	10649	10.00	6575	13.92
02	PB165724BSD	2938	7.26	6908	10.00	3870	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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG NO.: P5314

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	PB165724BL	14052	16.70	10269	20.95	9894	23.03
02	PB165724BSD	7401	16.70	5744	20.95	6254	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: **BN035785.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/13/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	BP-VPB-190A-GW-678-680	SDG No.:	P5314
Lab Sample ID:	P5314-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	800 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
BN035785.D	1	12/18/24 12:50	12/23/24 15:41	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.40		0.090	0.25	0.25	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		55 - 111		102%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.56	*	58 - 132		140%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3450	7.264				
1146-65-2	Naphthalene-d8	8950	10.009				
15067-26-2	Acenaphthene-d10	5550	13.924				
1517-22-2	Phenanthrene-d10	10300	16.698				
1719-03-5	Chrysene-d12	8360	20.947				
1520-96-3	Perylene-d12	8390	23.032				

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: **BN035785.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	3452	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8948	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5551	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10343	0.400	ng	0.00
29) Chrysene-d12	20.947	240	8364	0.400	ng	0.00
35) Perylene-d12	23.032	264	8390	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1274	0.147	ng	0.00
5) Phenol-d6	6.477	99	870	0.084	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2226m	0.407	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5390	0.385	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	819	0.208	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	8168	0.389	ng	-0.02
27) Fluoranthene-d10	18.752	212	11895	0.406	ng	0.00
31) Terphenyl-d14	19.379	244	9273	0.562	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	3613	1.095	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	1156	0.100	ng	# 99

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

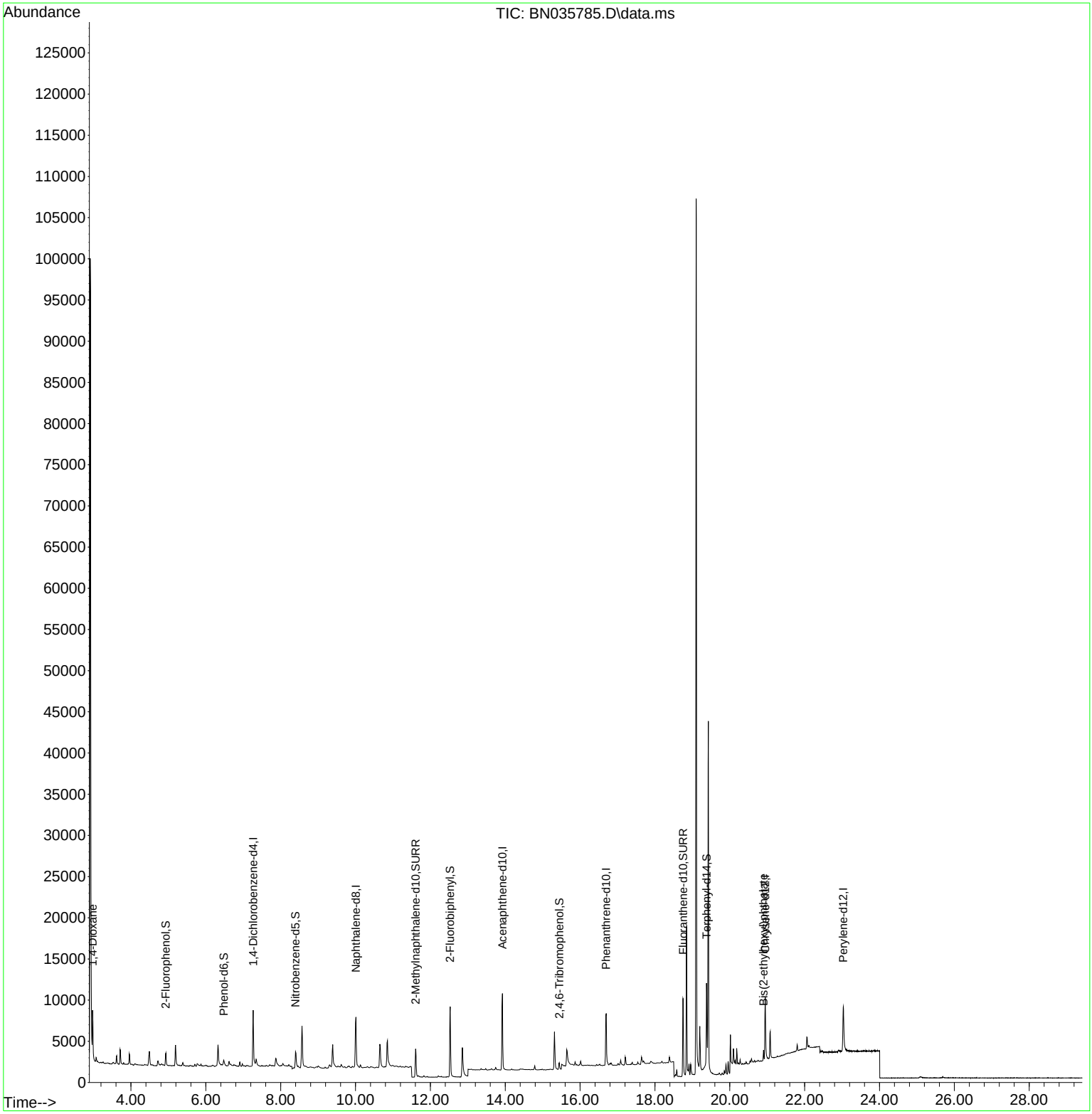
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

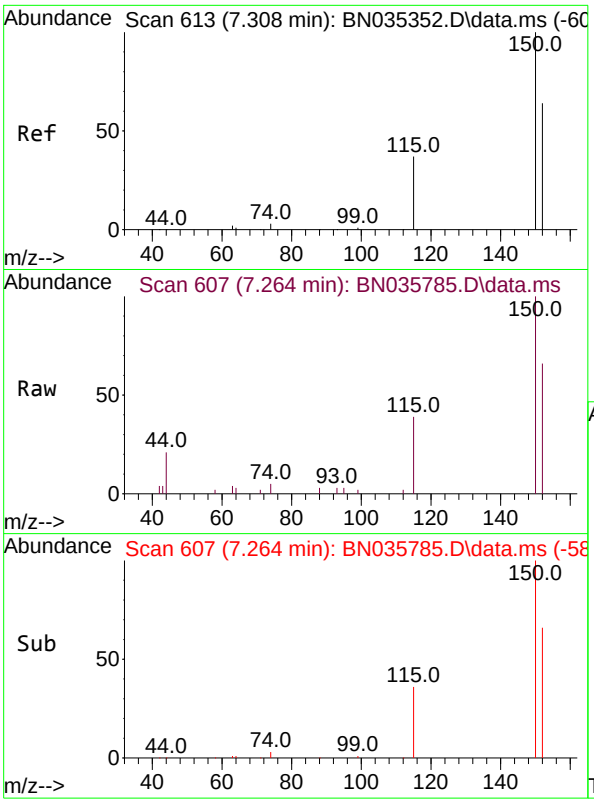
Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

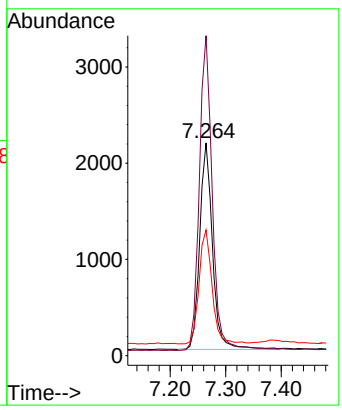




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:152 Resp: 345

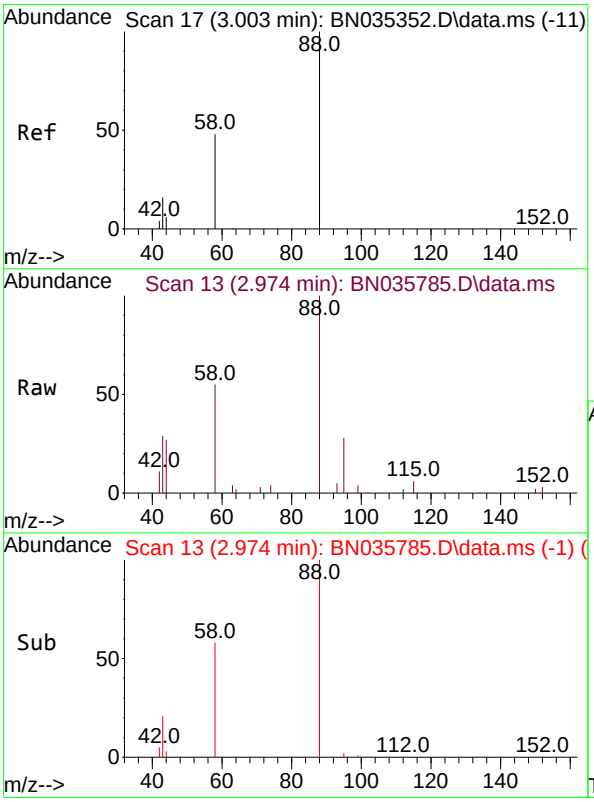
Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	59.1	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

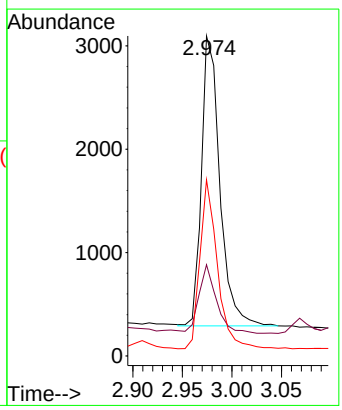
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

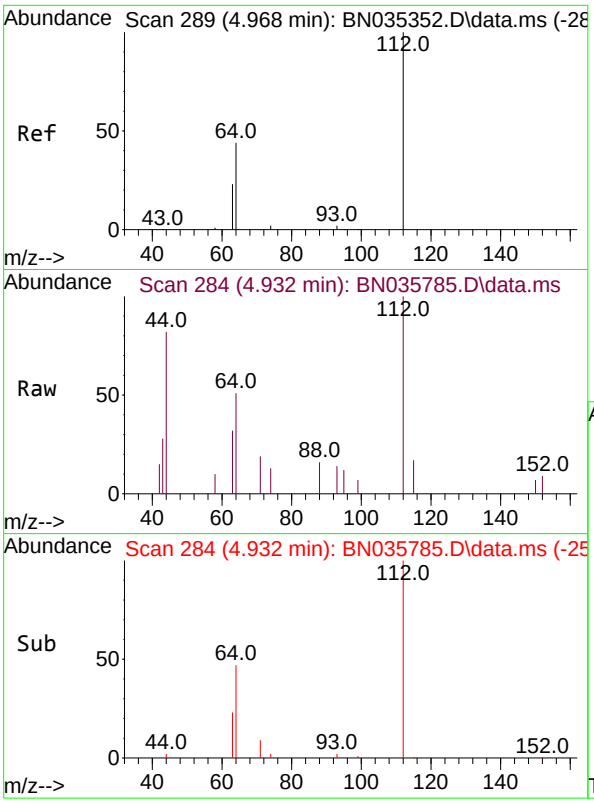


#2
1,4-Dioxane
Concen: 1.095 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 88 Resp: 3613

Ion	Ratio	Lower	Upper
88	100		
43	22.7	17.2	25.8
58	55.4	44.5	66.7





#4
2-Fluorophenol
Concen: 0.147 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

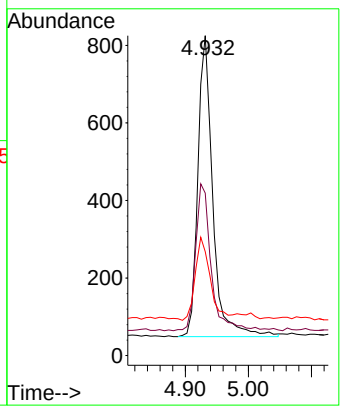
Tgt Ion:112 Resp: 127

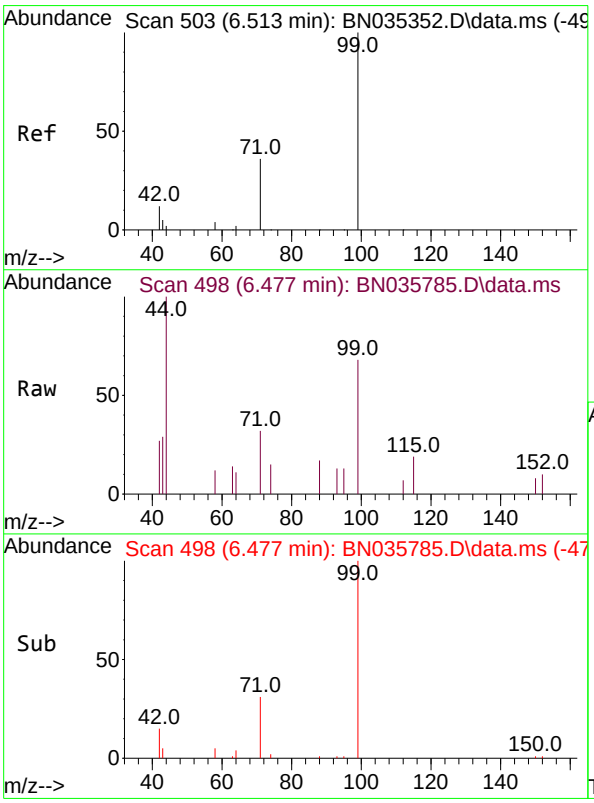
Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	27.9	21.0	31.6

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

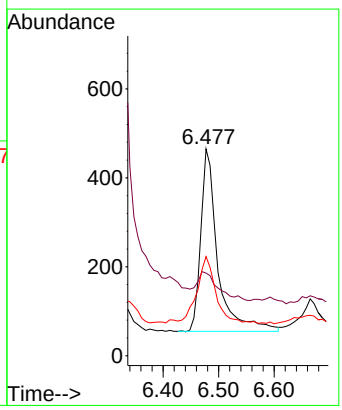


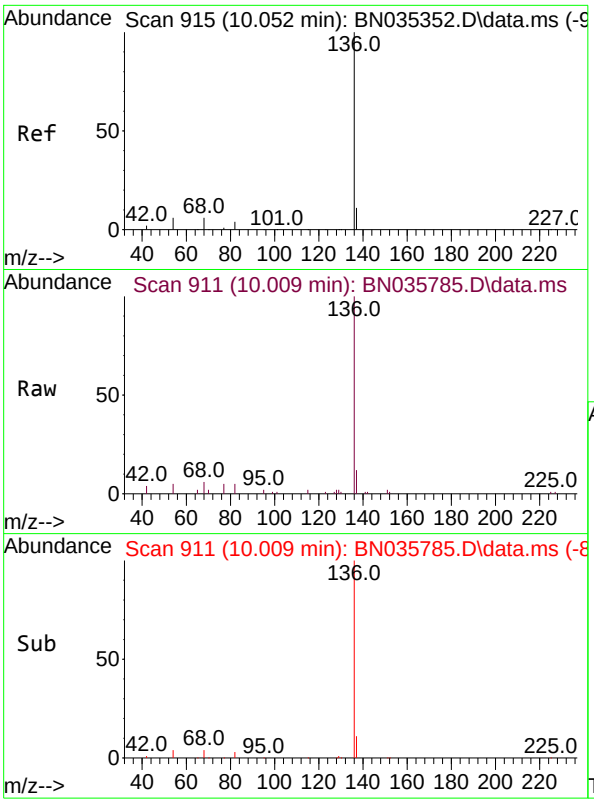


#5
Phenol-d6
Concen: 0.084 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 99 Resp: 870

Ion	Ratio	Lower	Upper
99	100		
42	19.7	11.4	17.2#
71	41.5	29.3	43.9

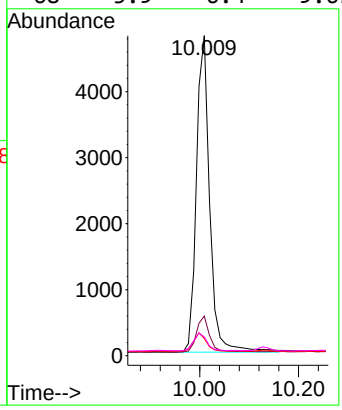




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:136 Resp: 894

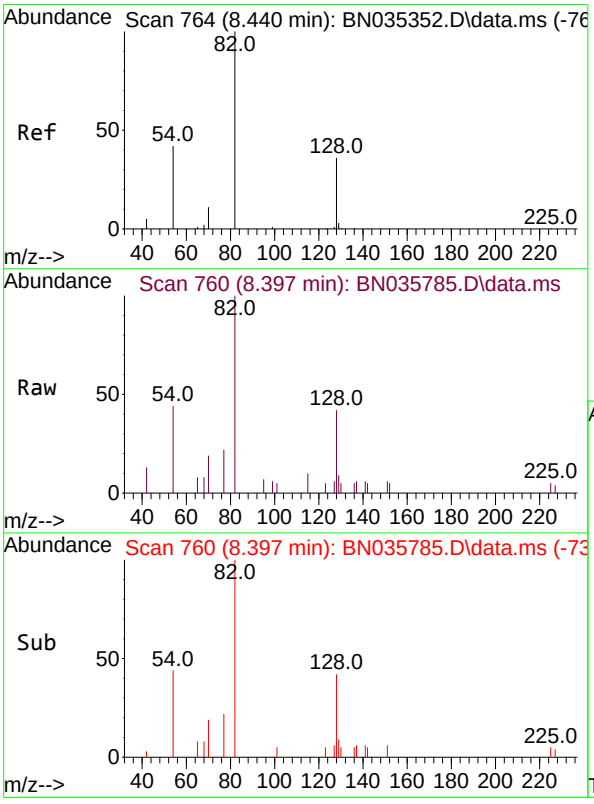
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	5.4	6.1	9.1#
68	5.9	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

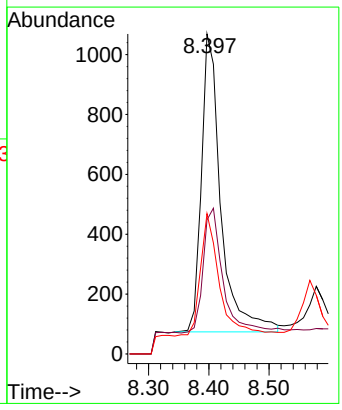
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

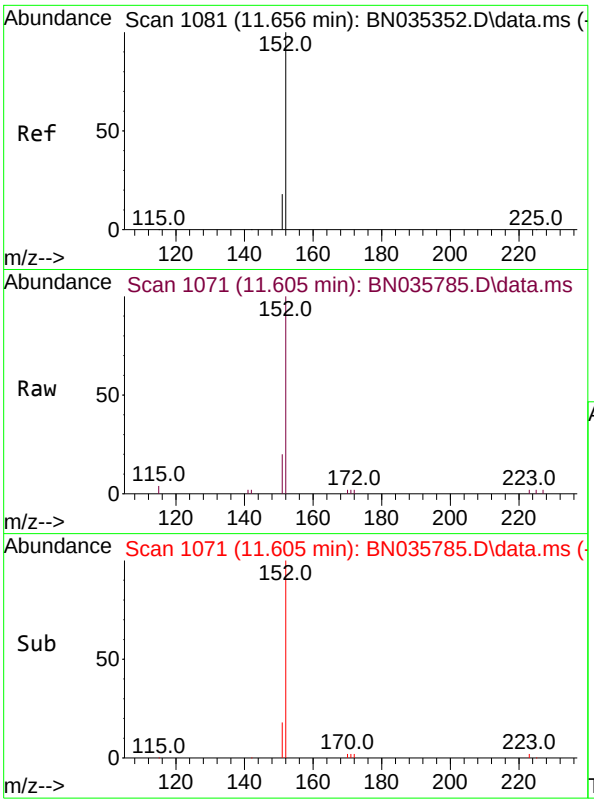


#8
Nitrobenzene-d5
Concen: 0.407 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 82 Resp: 2226

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	43.9	36.7	55.1

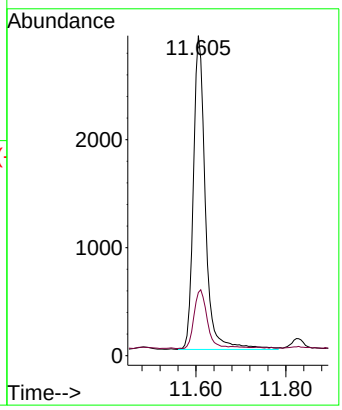




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.605 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:152 Resp: 539(

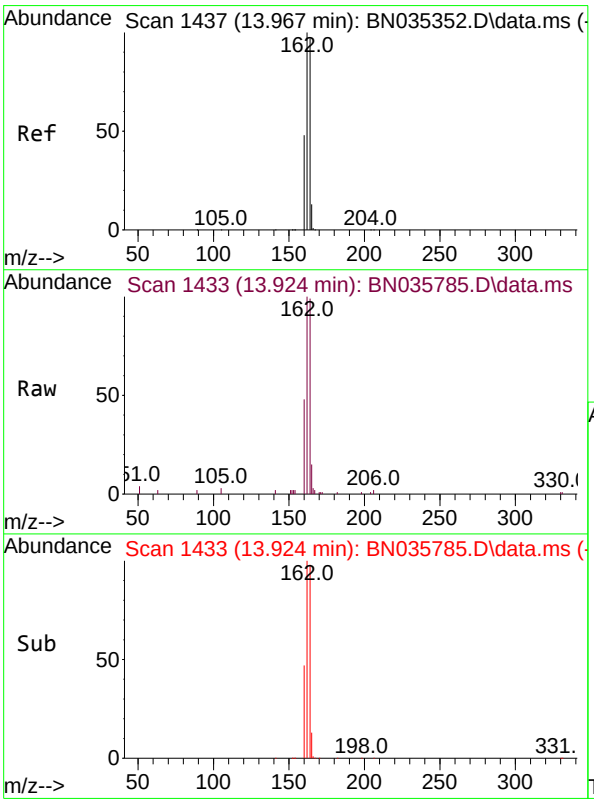
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

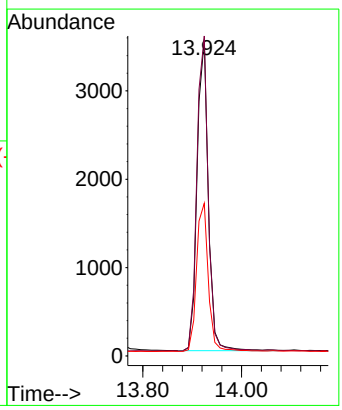
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

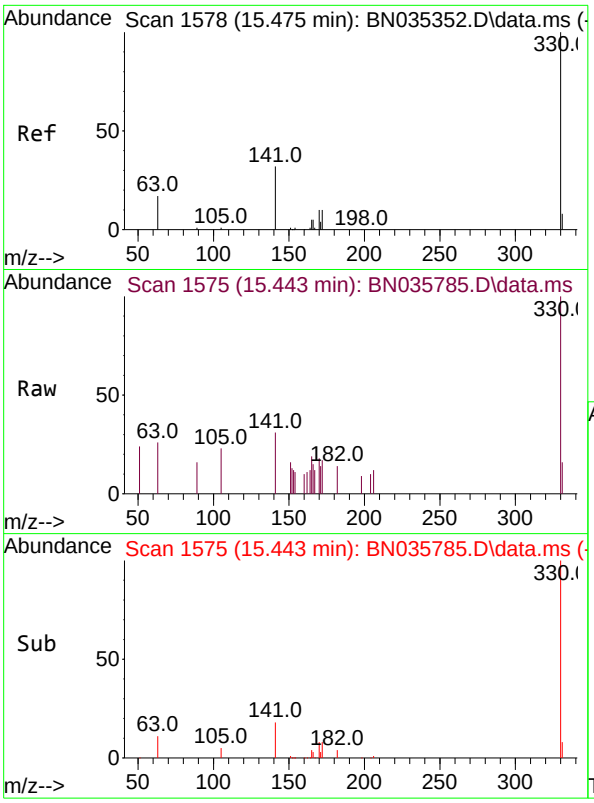


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:164 Resp: 5551

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	48.3	40.1	60.1

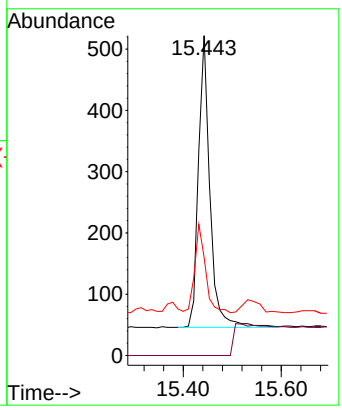




#14
2,4,6-Tribromophenol
Concen: 0.208 ng
RT: 15.443 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:330 Resp: 81

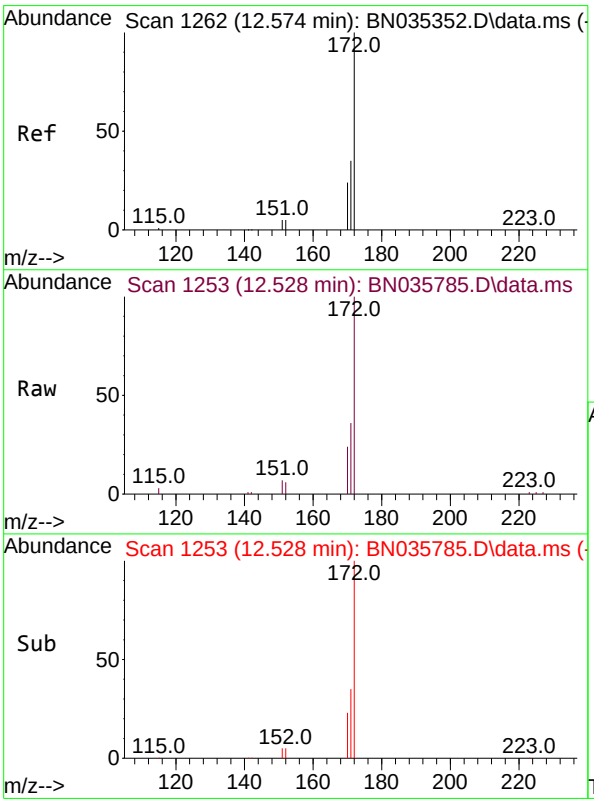
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.9	26.6	40.0



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

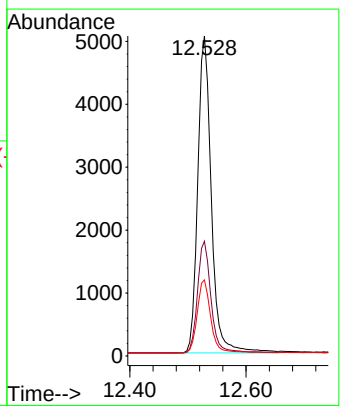
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

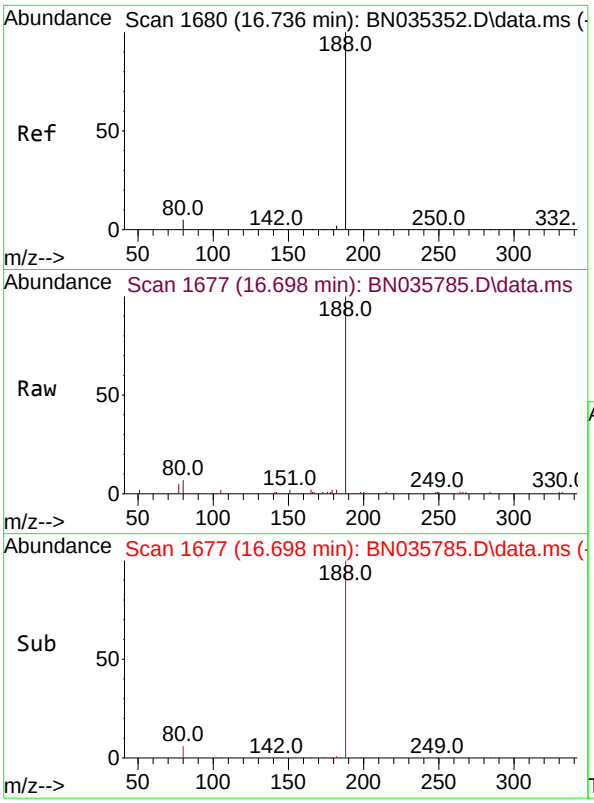


#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.528 min Scan# 1253
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:172 Resp: 8168

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.8	19.8	29.8

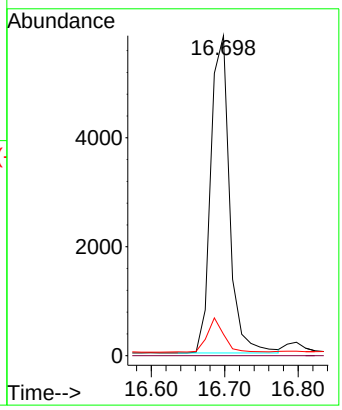




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:188 Resp: 1034

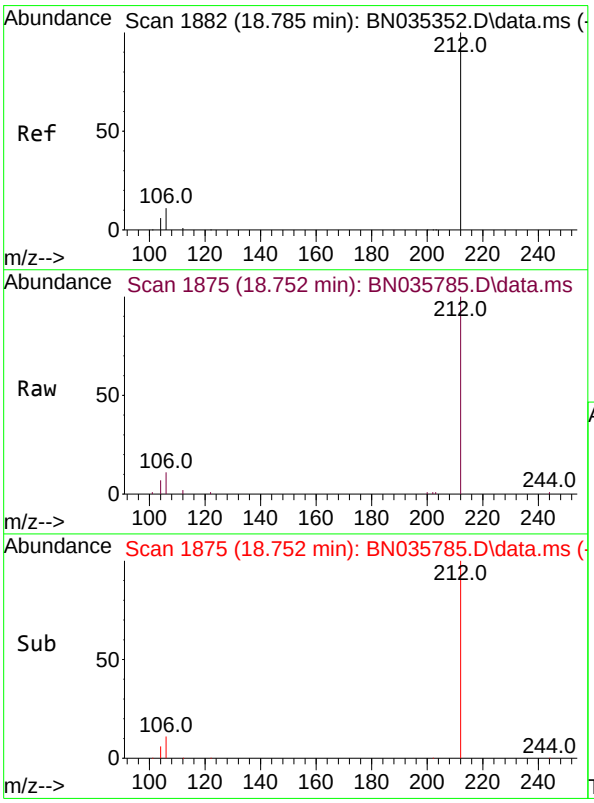
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.7	4.6	6.8



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

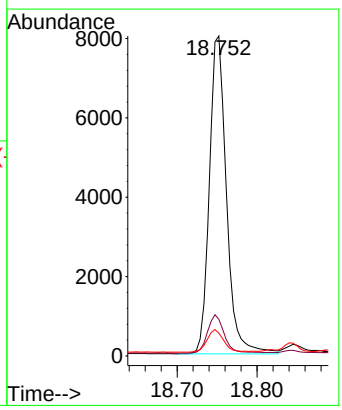
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

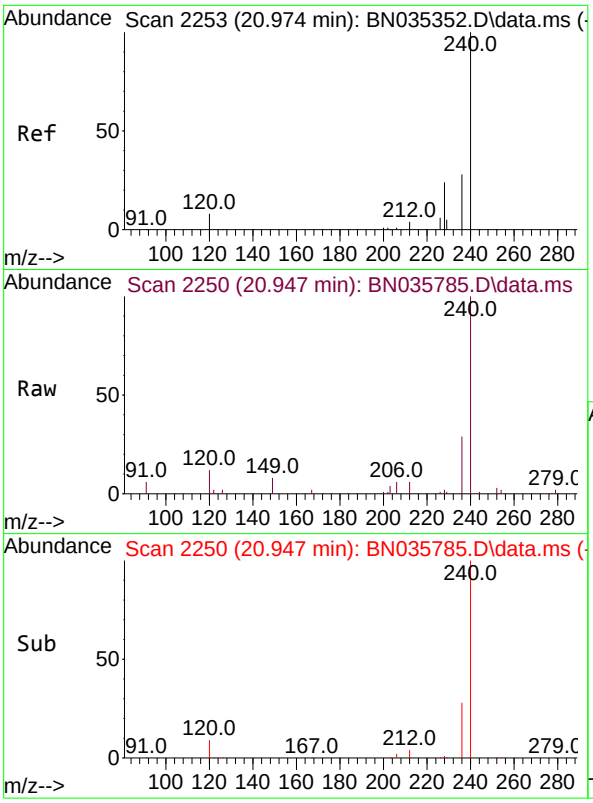


#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 18.752 min Scan# 1875
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:212 Resp: 11895

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9

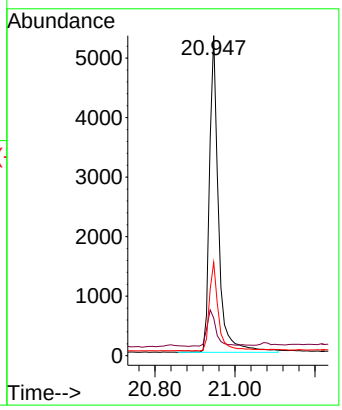




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:240 Resp: 836

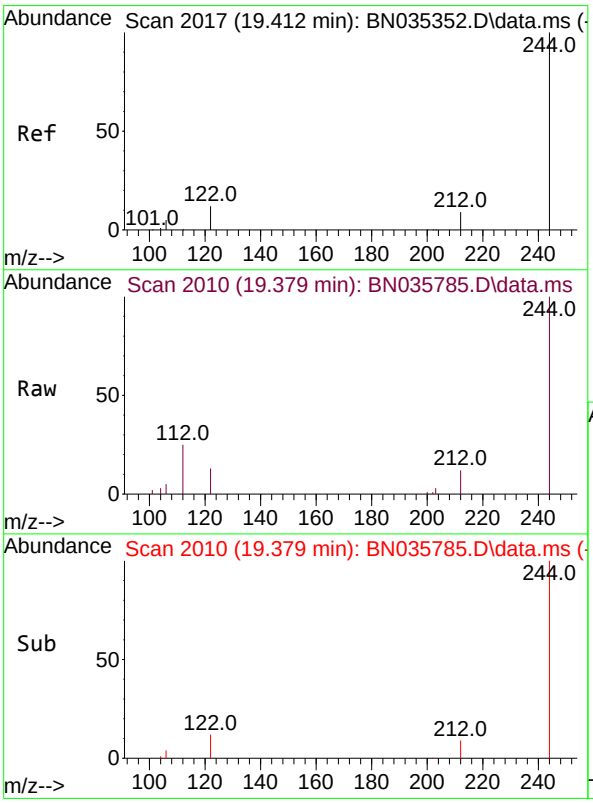
Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
APPROVED

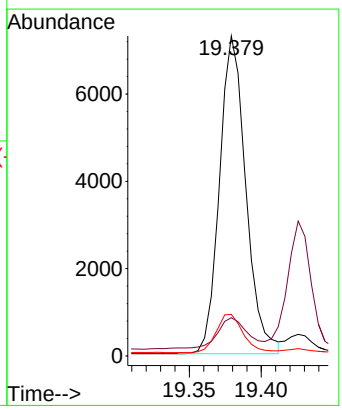
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

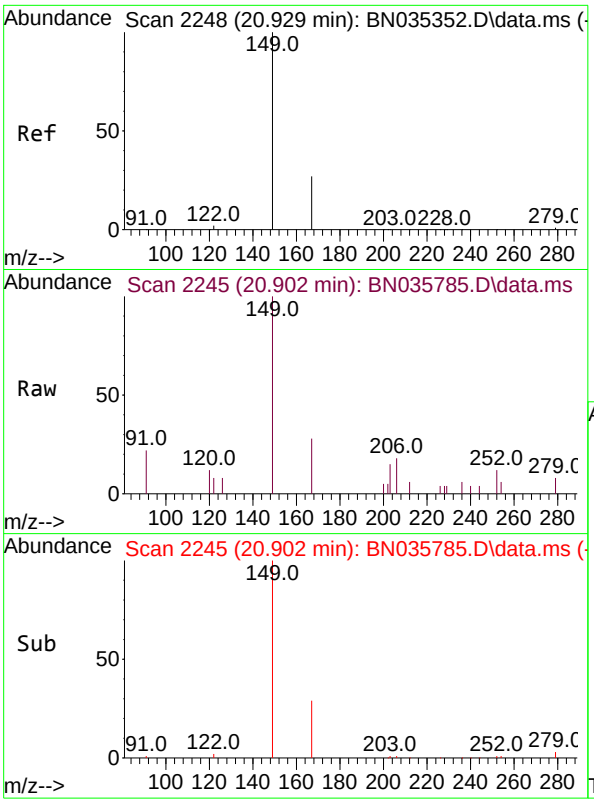


#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.379 min Scan# 2010
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:244 Resp: 9273

Ion	Ratio	Lower	Upper
244	100		
212	12.0	8.1	12.1
122	13.0	10.3	15.5

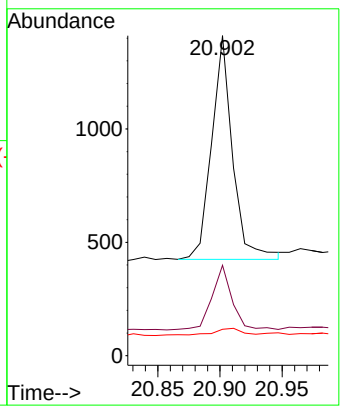




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 20.902 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:149 Resp: 115

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	4.8	2.7	4.1#



Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Manual Integrations
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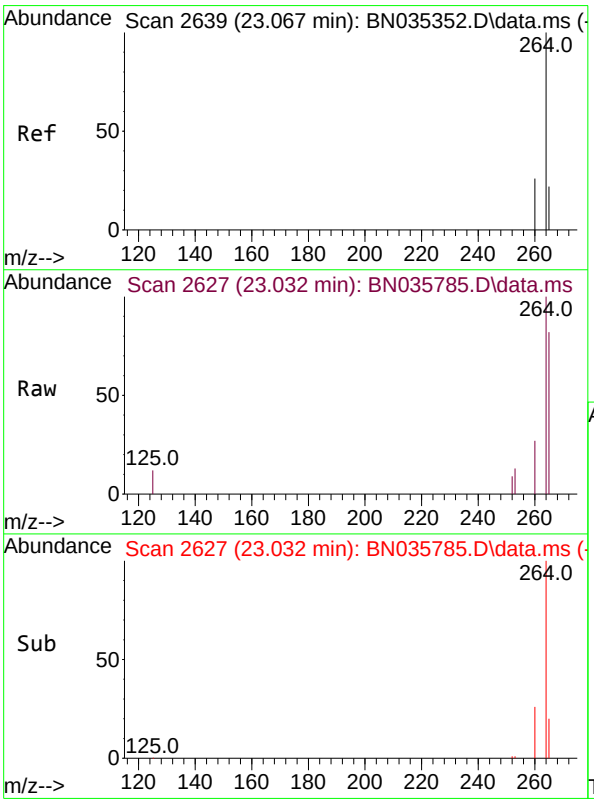
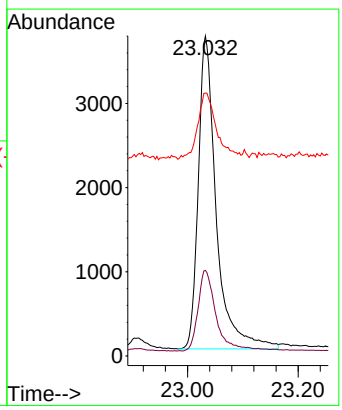
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2627
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:264 Resp: 8390

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	82.2	40.2	60.4#



Raw Data: **BN035786.D**

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/17/24
Project:	CTO WE13	Date Received:	12/17/24
Client Sample ID:	VPB190A-HYD-20241217	SDG No.:	P5314
Lab Sample ID:	P5314-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN035786.D	1	12/18/24 12:50	12/23/24 16:17	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.13		30 - 150		34%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.17		30 - 150		43%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		55 - 111		104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.68	*	58 - 132		170%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4130	7.264				
1146-65-2	Naphthalene-d8	10900	10.009				
15067-26-2	Acenaphthene-d10	6410	13.925				
1517-22-2	Phenanthrene-d10	11600	16.698				
1719-03-5	Chrysene-d12	7750	20.947				
1520-96-3	Perylene-d12	5710	23.035				

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: **BN035786.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 17:12:25 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	4132	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10947	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11585	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7747	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	5708	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	87	0.008	ng	0.00
5) Phenol-d6	6.499	99	29	0.002	ng	0.00
8) Nitrobenzene-d5	8.397	82	2793m	0.418	ng	-0.01
11) 2-Methylnaphthalene-d10	11.616	152	2304	0.134	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	575	0.126	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10360	0.427	ng	-0.01
27) Fluoranthene-d10	18.752	212	5607	0.171	ng	0.00
31) Terphenyl-d14	19.379	244	10391	0.680	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.902	149	1139	0.106	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Quant Time: Dec 23 17:12:25 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 :
VPB190A-HYD-20241217

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
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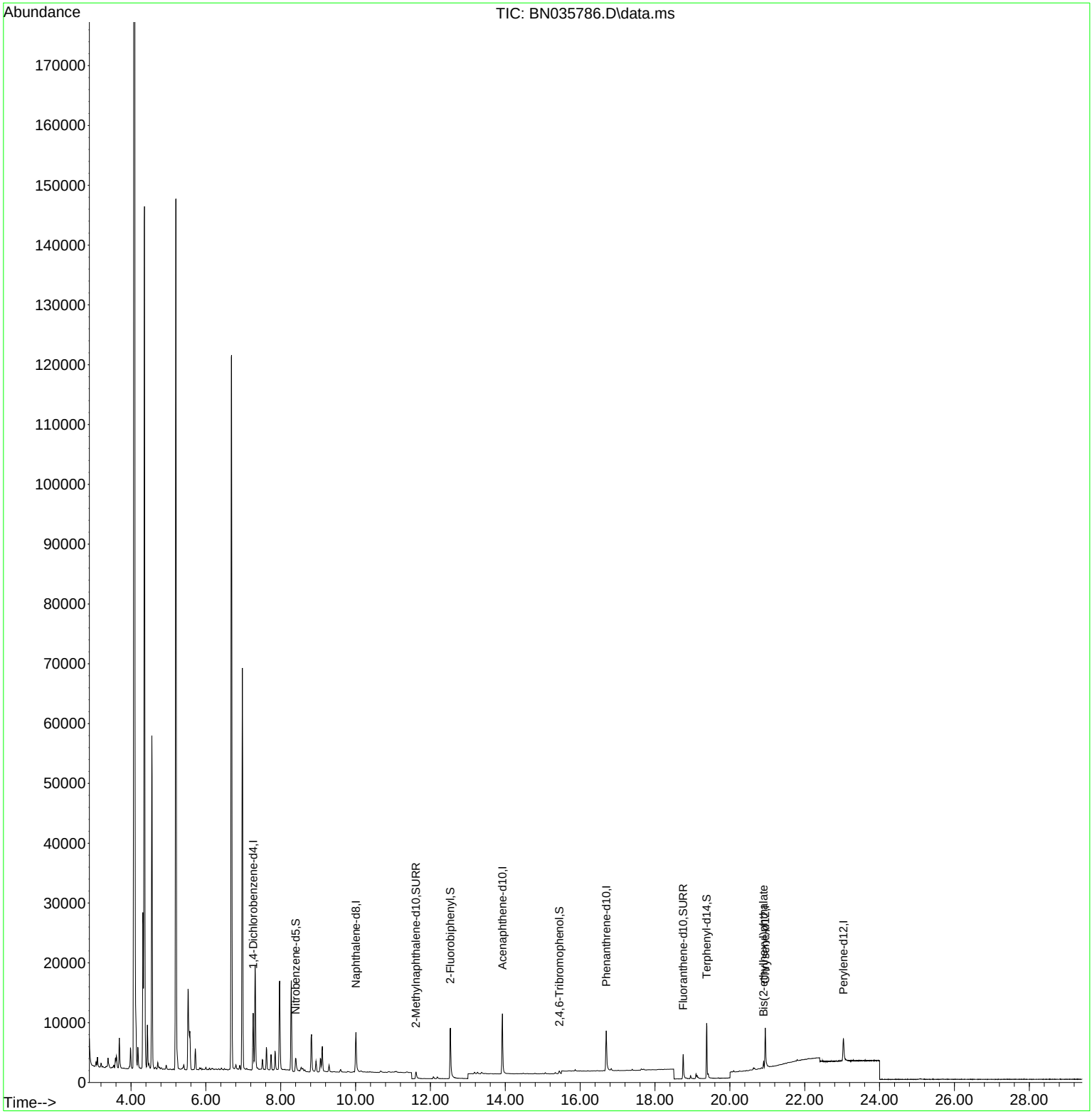
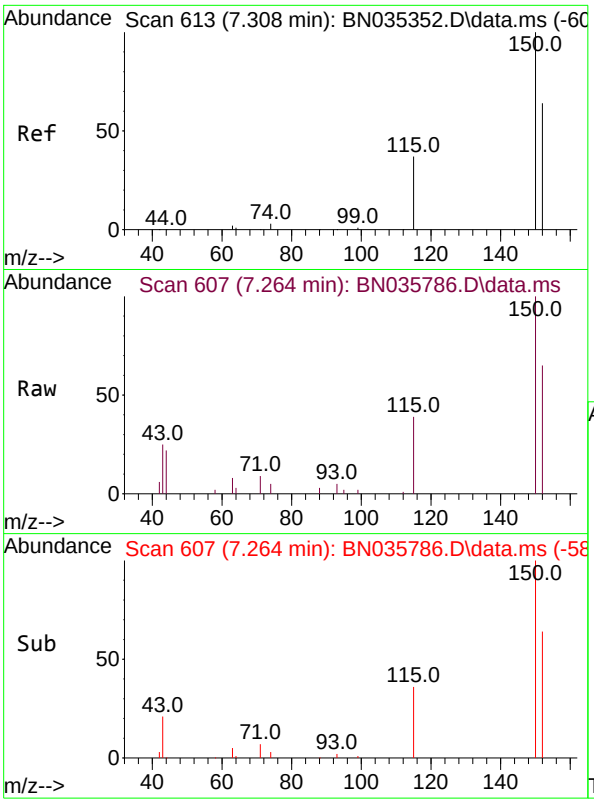
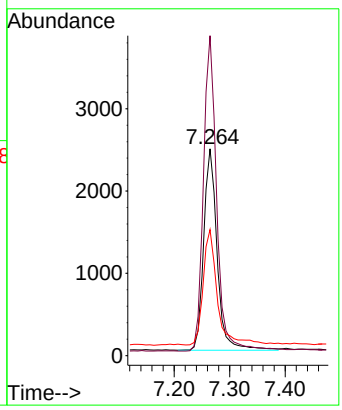




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:152 Resp: 413

Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.0	186.0
115	60.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
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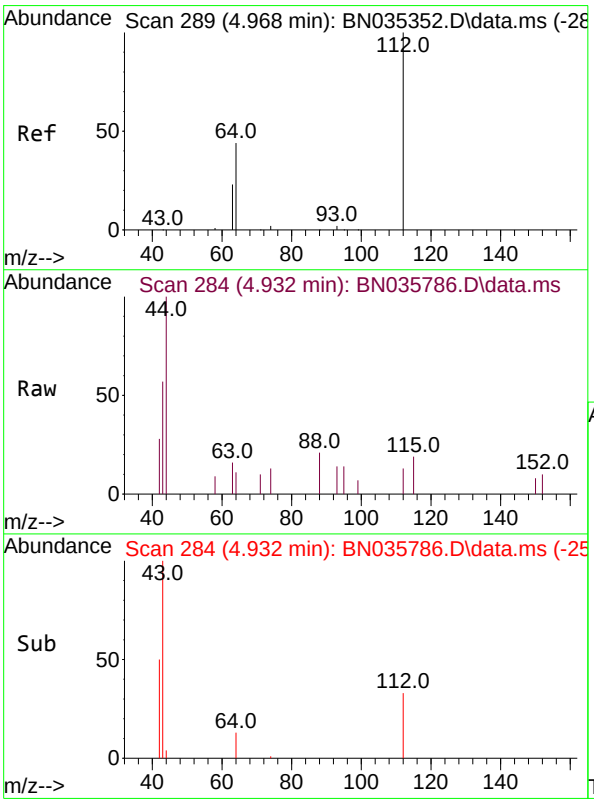
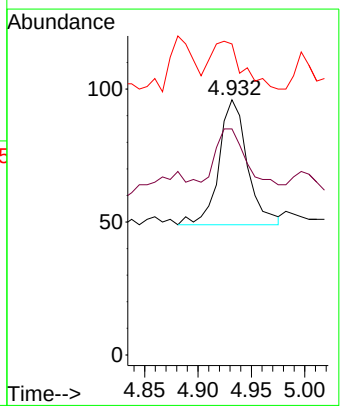
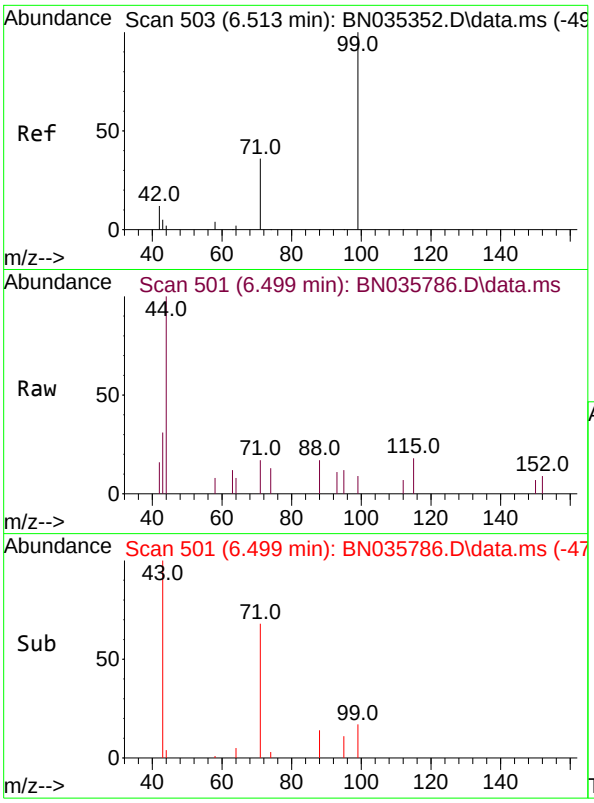


#4
2-Fluorophenol
Concen: 0.008 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:112 Resp: 87

Ion	Ratio	Lower	Upper
112	100		
64	44.8	39.8	59.8
63	59.8	21.0	31.6#

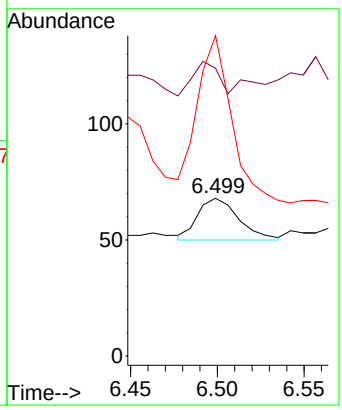




#5
Phenol-d6
Concen: 0.002 ng
RT: 6.499 min Scan# 5(
Delta R.T. 0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 99 Resp: 2(

Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.4	17.2#
71	0.0	29.3	43.9#



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
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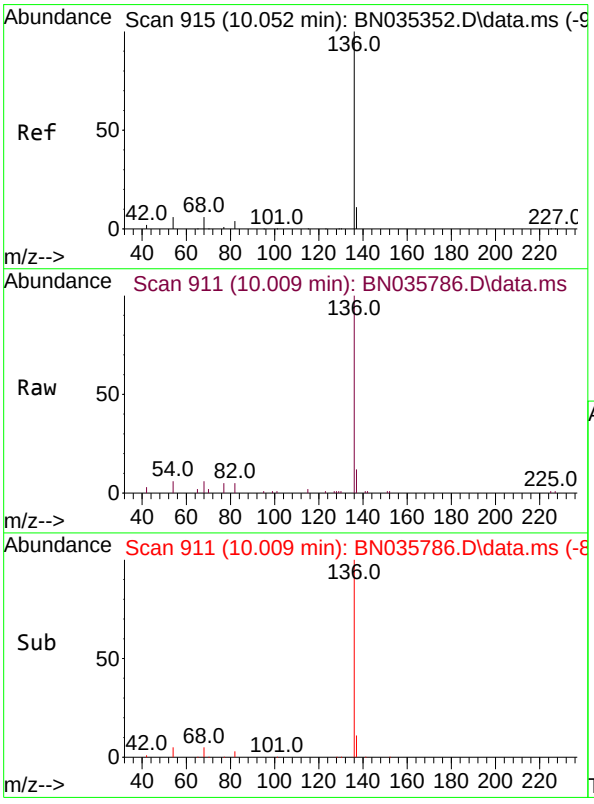
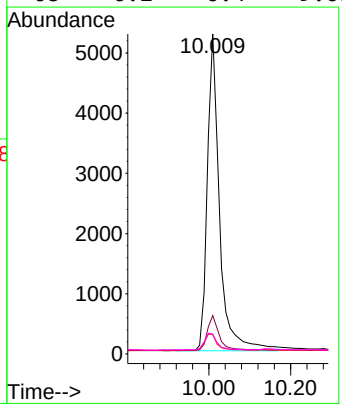
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

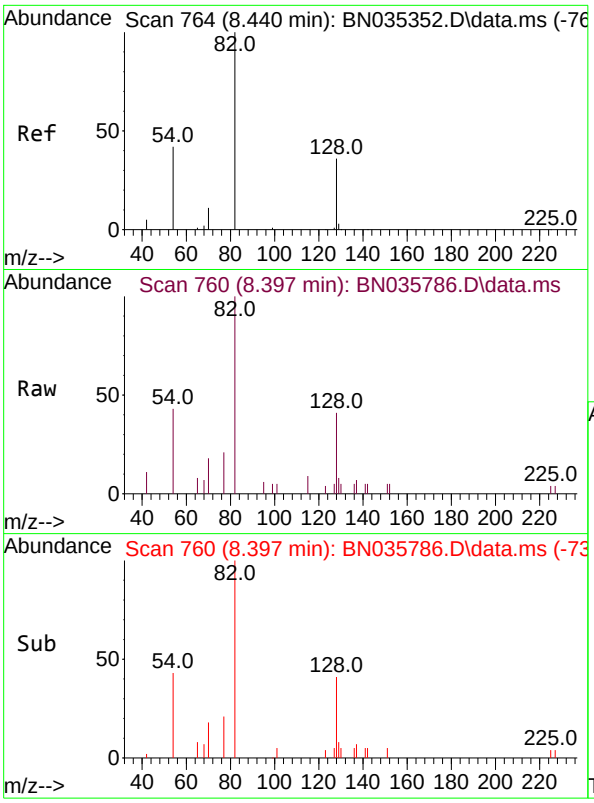


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:136 Resp: 10947

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.1	6.1	9.1#
68	6.2	6.4	9.6#

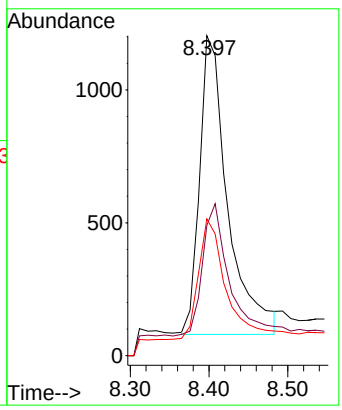




#8
Nitrobenzene-d5
Concen: 0.418 ng m
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 82 Resp: 279

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.4	50.0
54	42.8	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

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Reviewed By :Yogesh Patel 12/24/2024
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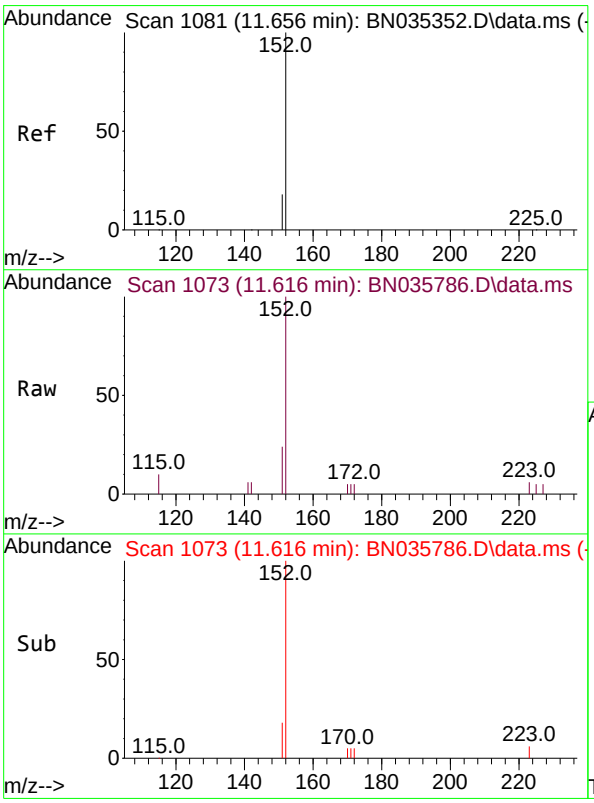
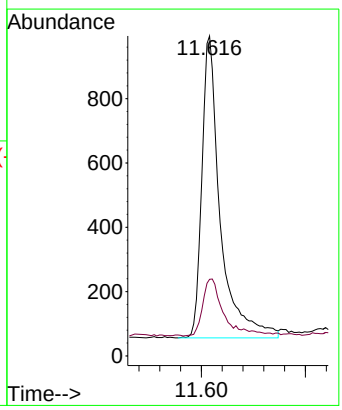
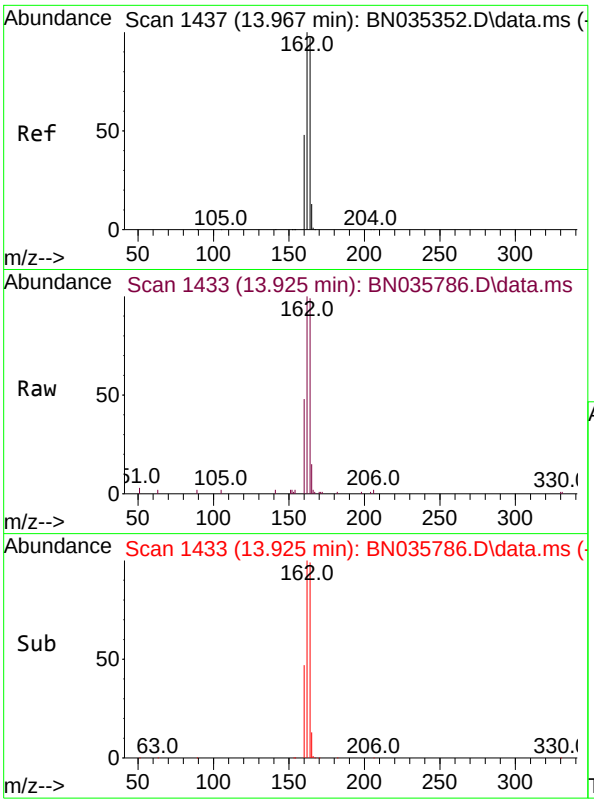


#11
2-Methylnaphthalene-d10
Concen: 0.134 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:152 Resp: 2304

Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.6	25.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:164 Resp: 641

Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.2	123.2
160	48.5	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
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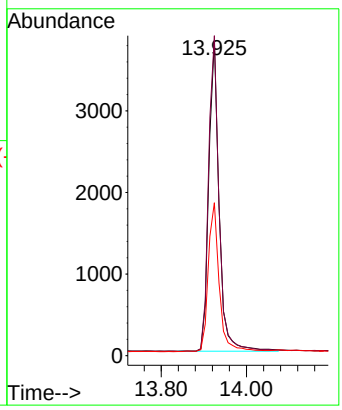
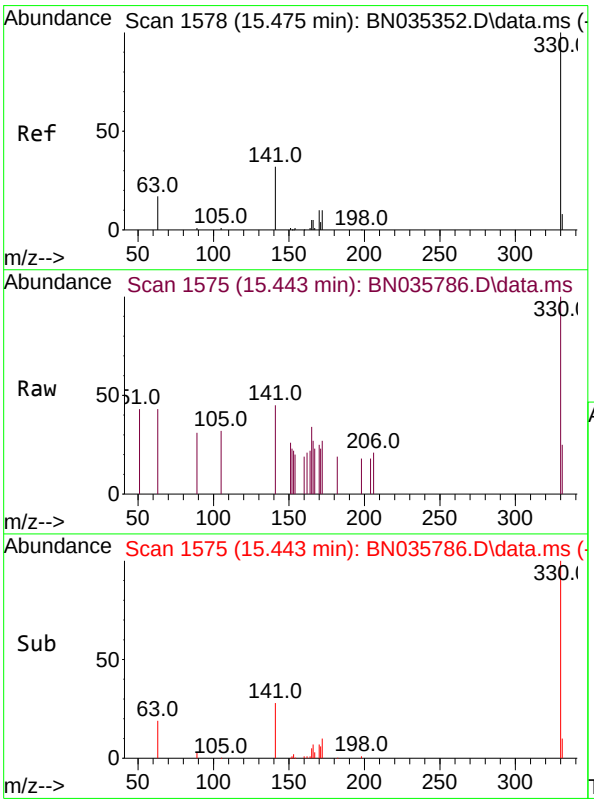
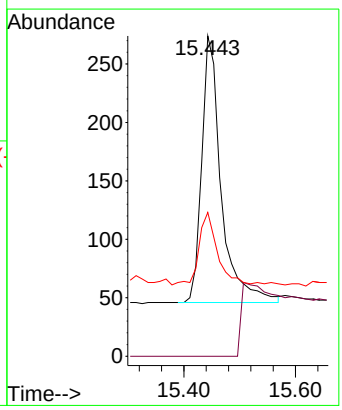


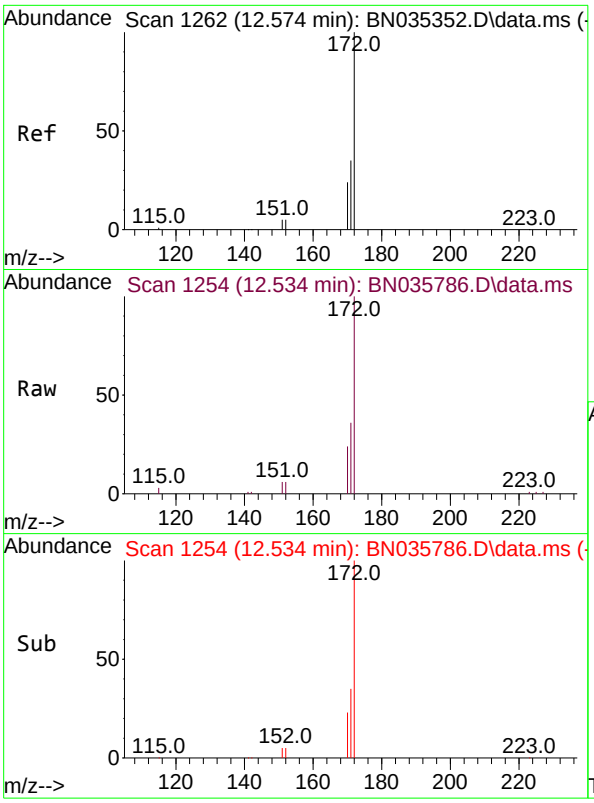


#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:330 Resp: 575

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	23.8	26.6	40.0#

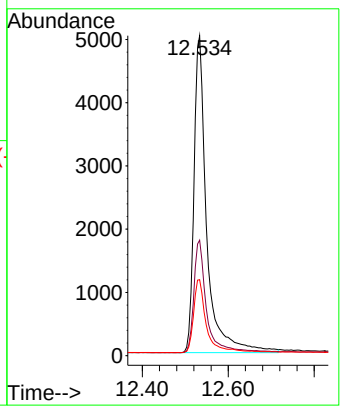




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:172 Resp: 1036

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
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Reviewed By :Yogesh Patel 12/24/2024
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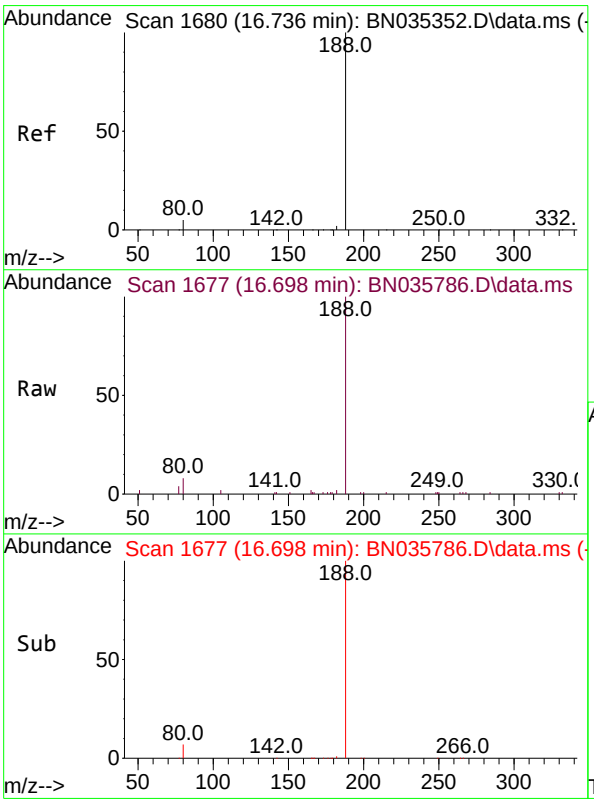
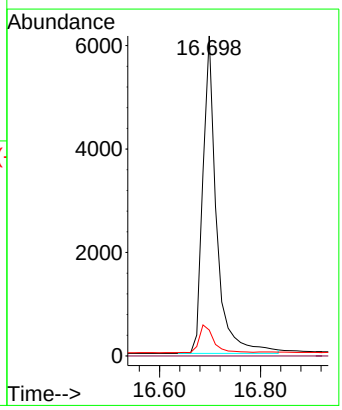
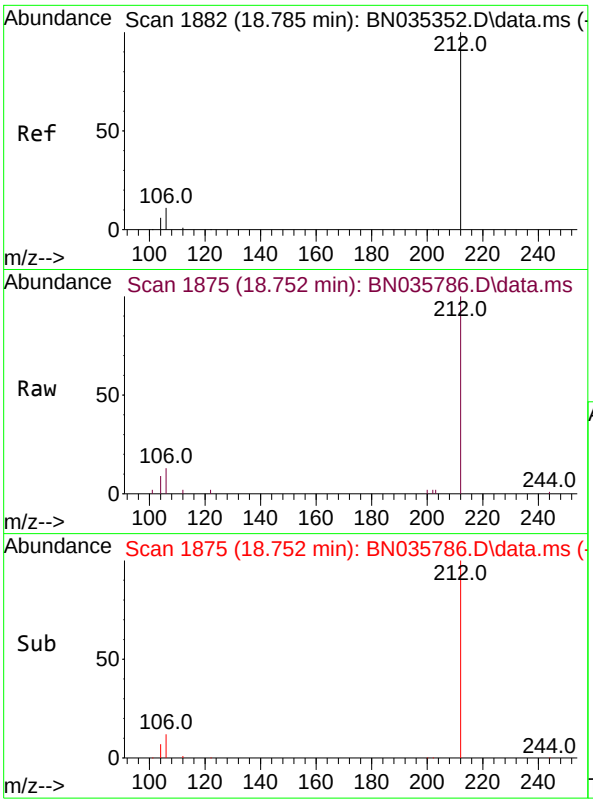


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:188 Resp: 11585

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	4.6	6.8#

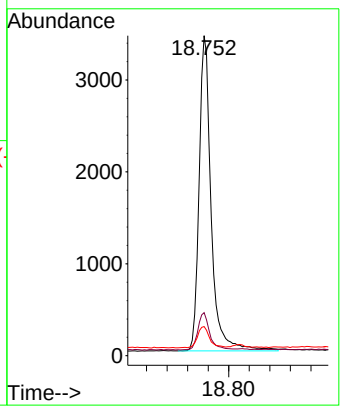




#27
Fluoranthene-d10
Concen: 0.171 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:212 Resp: 560

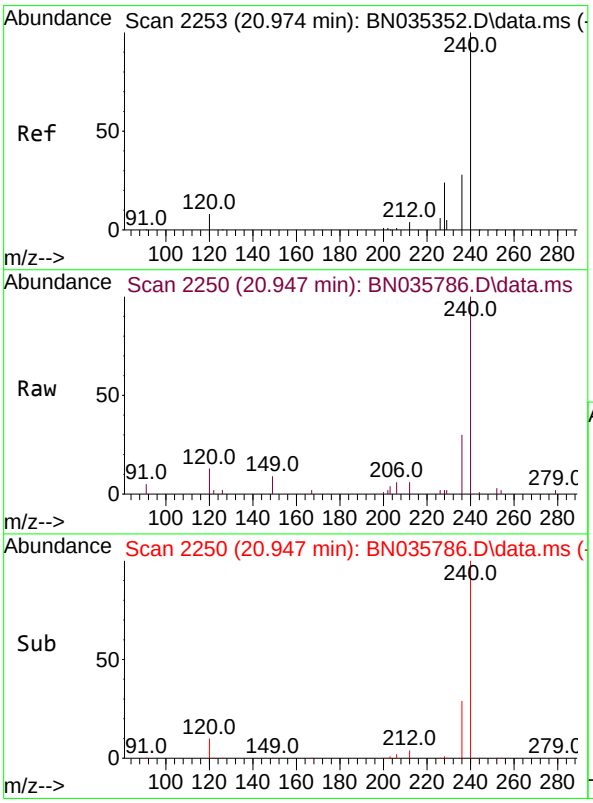
Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
APPROVED

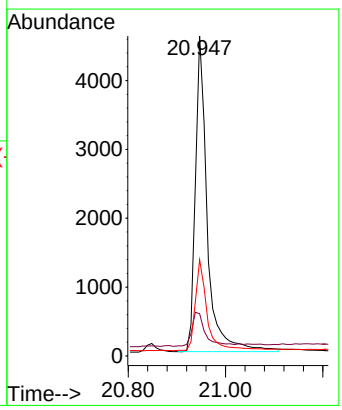
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

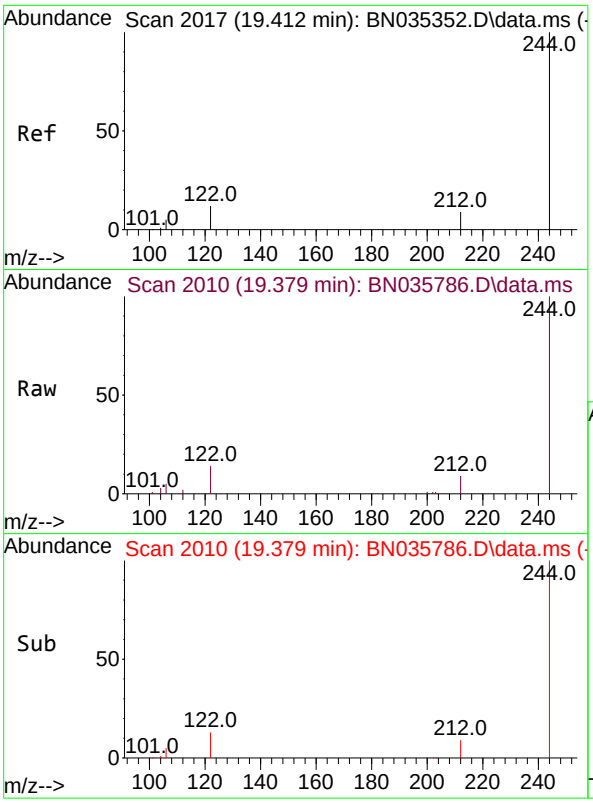


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:240 Resp: 7747

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	30.0	22.9	34.3

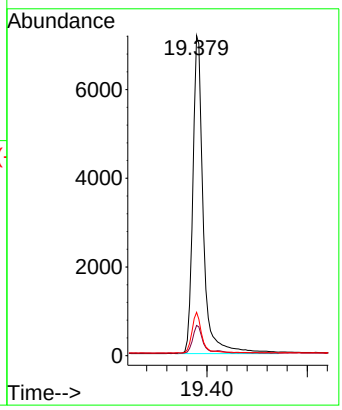




#31
Terphenyl-d14
Concen: 0.680 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:244 Resp: 1039

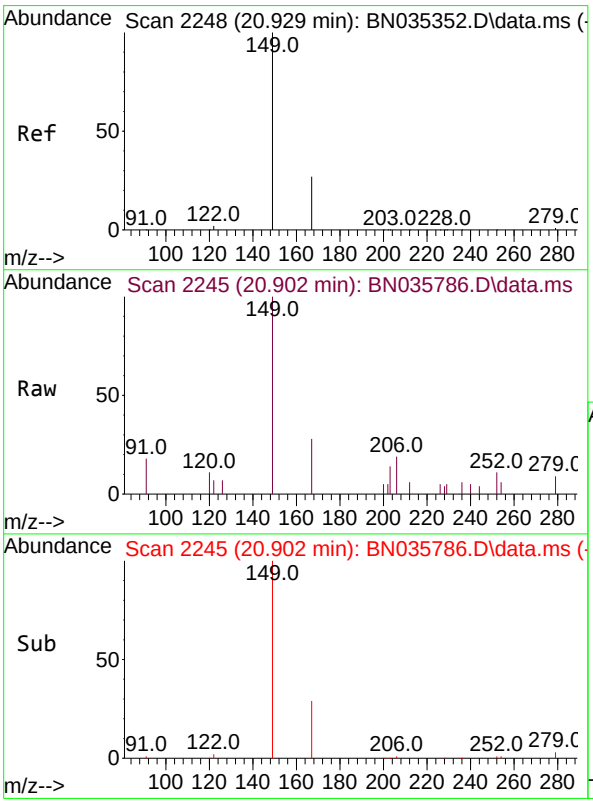
Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	13.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
APPROVED

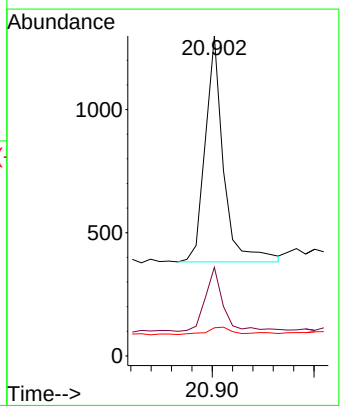
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

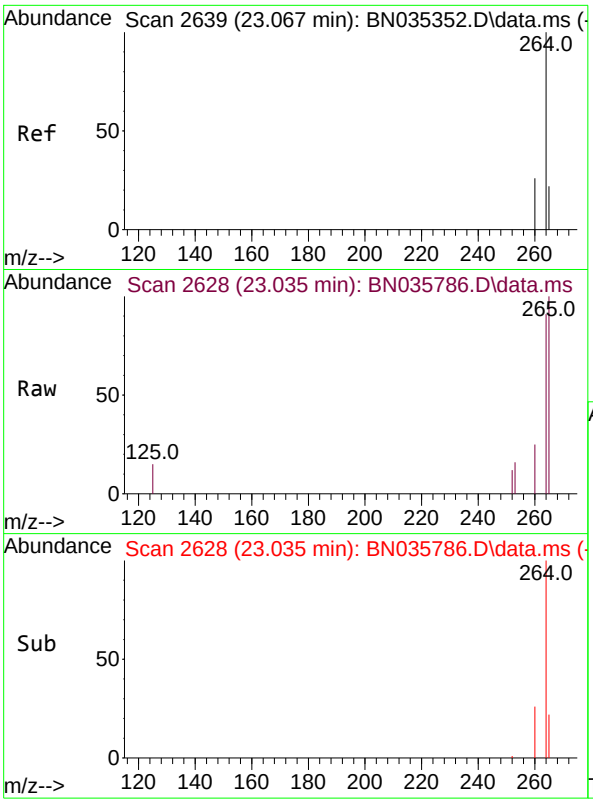


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.106 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:149 Resp: 1139

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.6	2.7	4.1

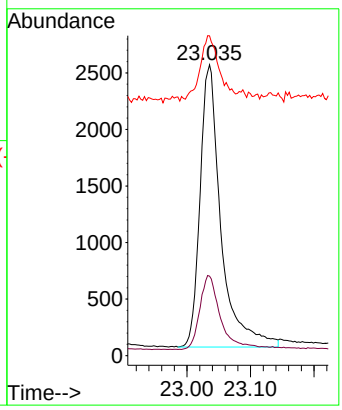




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:264 Resp: 570

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	110.0	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

CALIBRATION SUMMARY

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

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

Calibration Files
0.1 =BN035350.D 0.2 =BN035351.D 0.4 =BN035352.D 0.8 =BN035353.D 1.6 =BN035354.D 3.2 =BN035355.D 5.0 =BN035356.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.406	0.417	0.376	0.380	0.392	0.357	0.348	0.382	6.52
3)		n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319	3.92
4)	S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001	5.88
5)	S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204	2.69
6)		bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012	2.39
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.227	0.232	0.235	0.248	0.257	0.251	0.261	0.244	5.31
9)		Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055	2.22
10)		Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243	2.60
11)	SURR	2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626	4.16
12)		2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755	4.25
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.273	0.258	0.257	0.268	0.293	0.311	0.328	0.284	9.67
15)	S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512	1.68
16)		Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680	4.68
17)		Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115	2.17
18)		Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596	2.47
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.038	0.031	0.036	0.041	0.051			0.039	19.30
21)		4-Bromophenyl-...	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234	4.85
22)		Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275	2.82
23)		Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167	8.98
24)		Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120	19.86
25)		Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099	3.20
26)		Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994	5.76
27)	SURR	Fluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134	4.10
28)		Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481	3.99
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477	3.79
31)	S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789	3.08
32)		Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399	2.98
33)		Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443	1.84
34)		Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553	12.96
35)	I	Perylene-d12	----------ISTD----------								

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

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

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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

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

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

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

ICAL Form

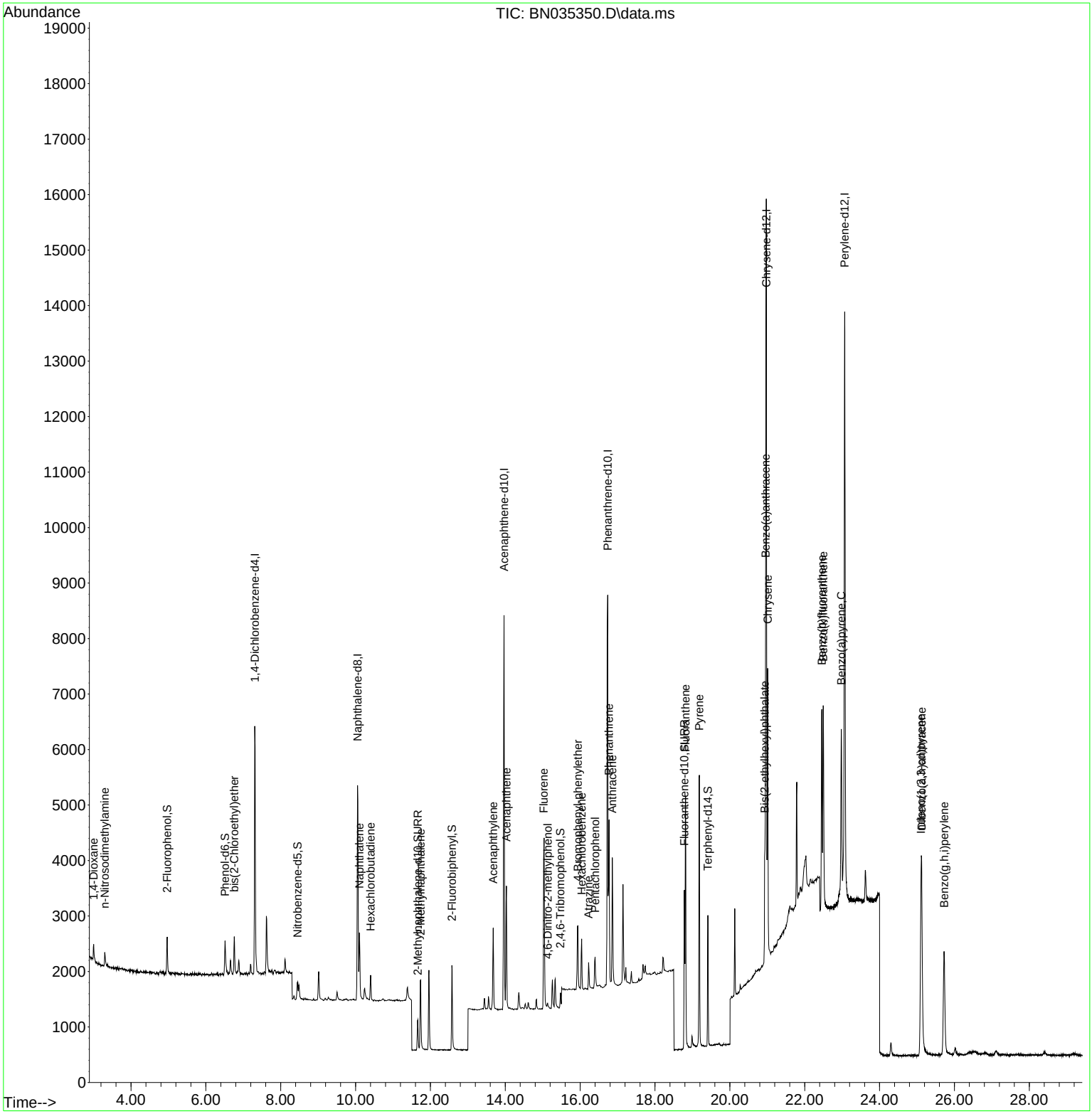
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035350.D
Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

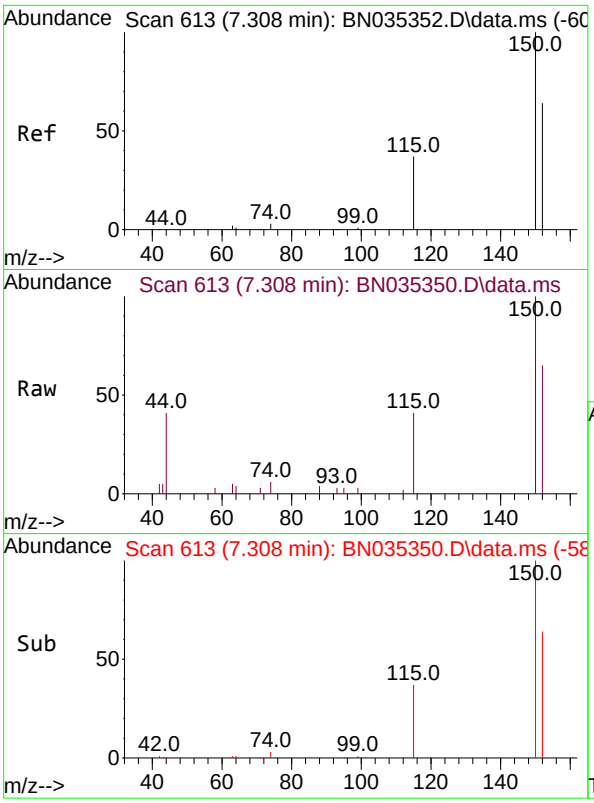
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

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

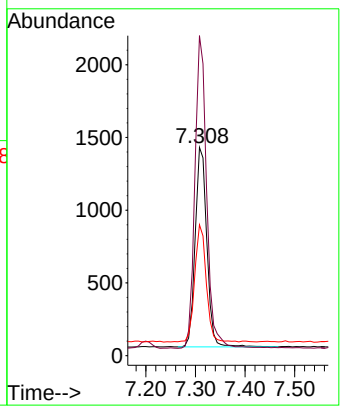




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 223

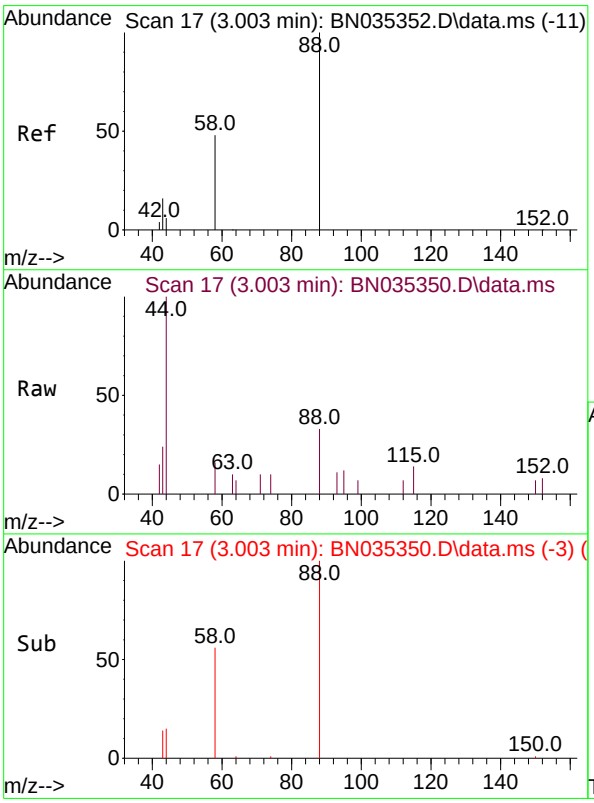
Ion	Ratio	Lower	Upper
152	100		
150	153.6	124.0	186.0
115	62.8	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

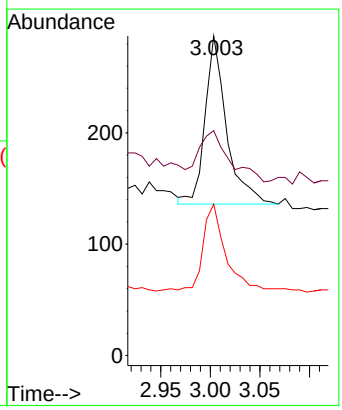
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

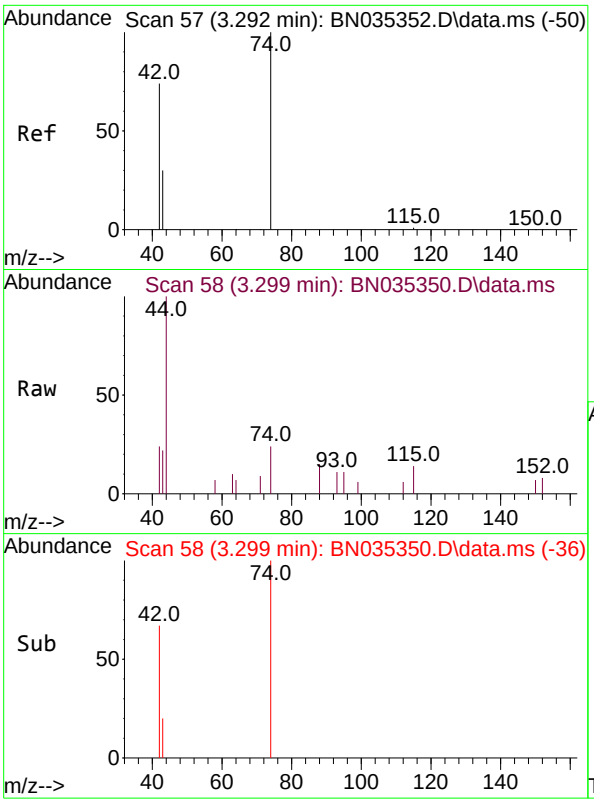


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

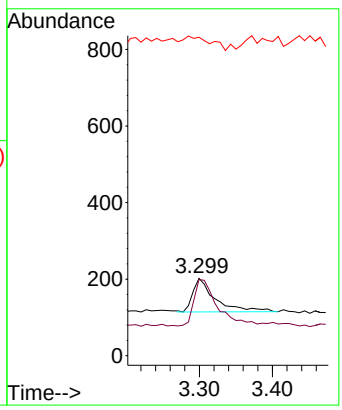




#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 42 Resp: 18

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



Instrument :
BNA_N
ClientSampleId :
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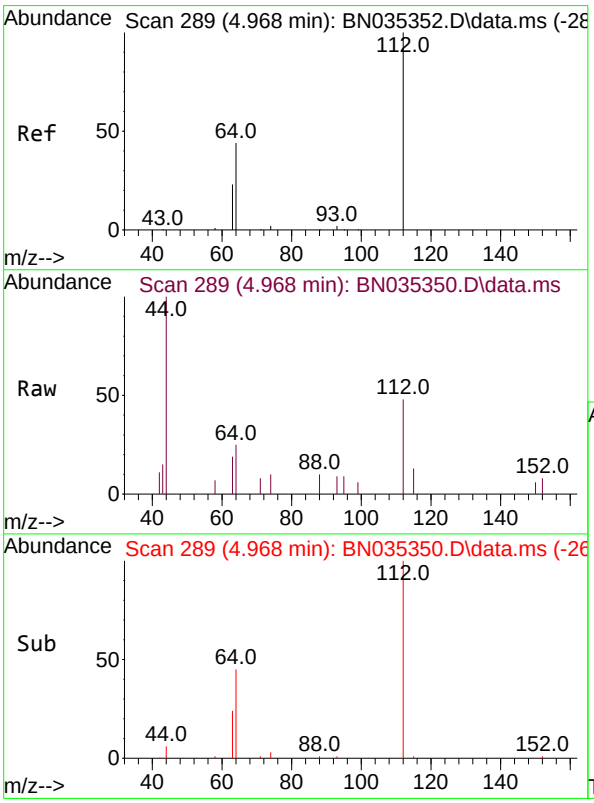
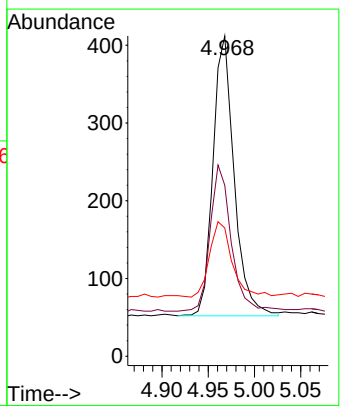
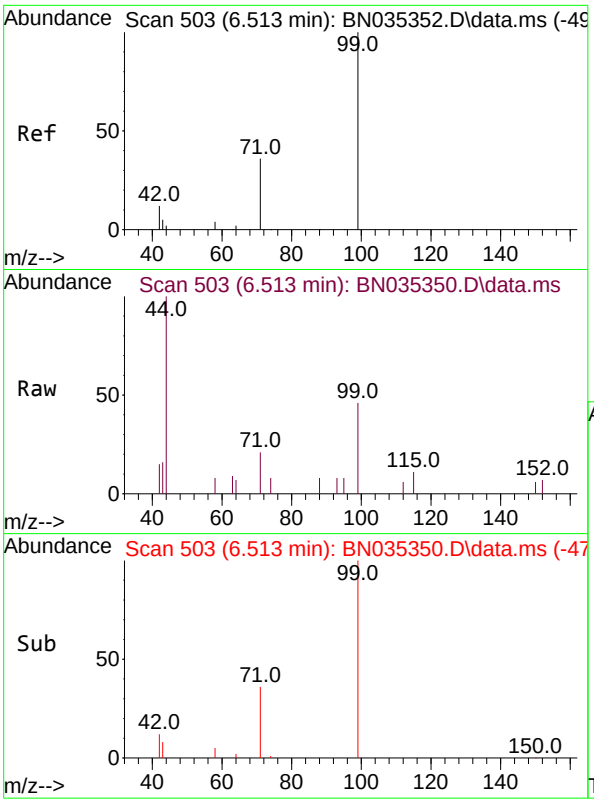


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

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

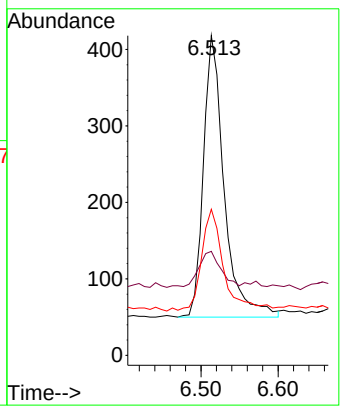




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 99 Resp: 68(

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



Instrument :
BNA_N
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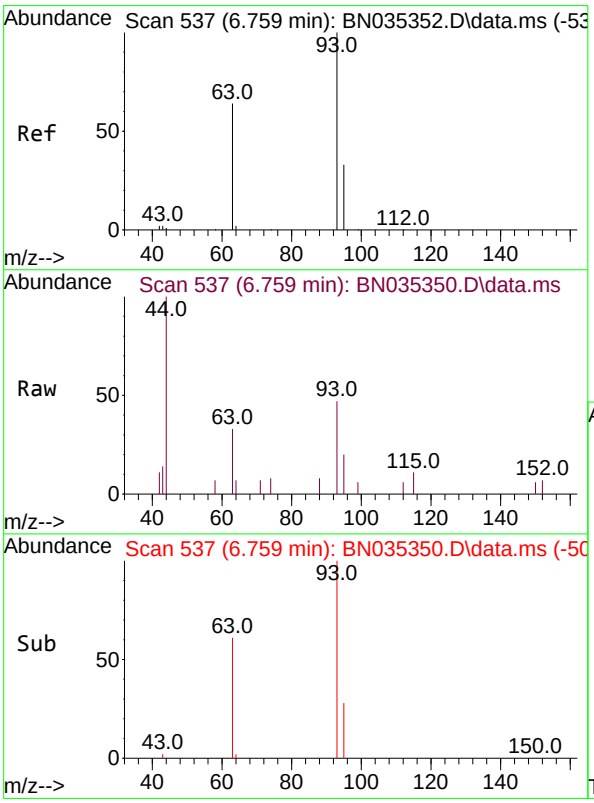
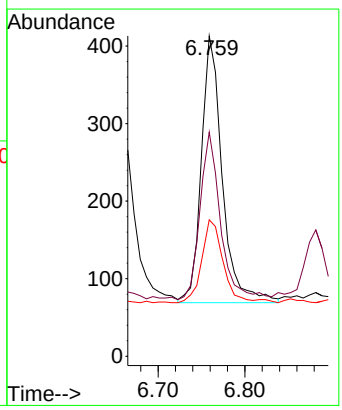
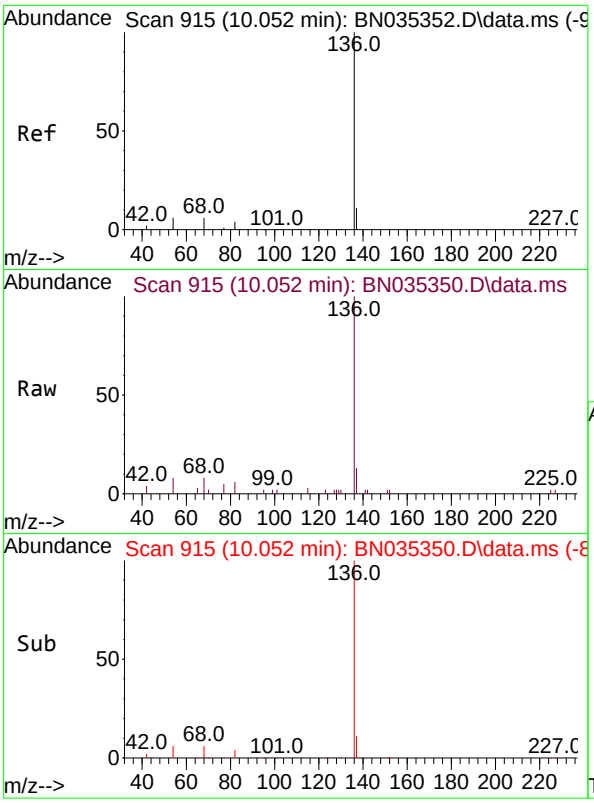


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

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

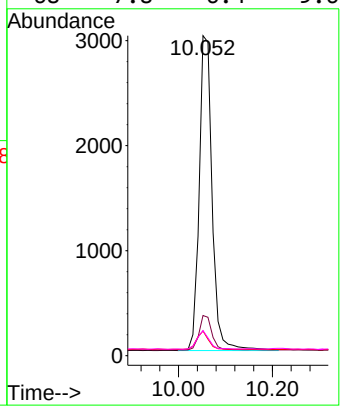




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:136 Resp: 575

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



Instrument :
BNA_N
ClientSampleId :
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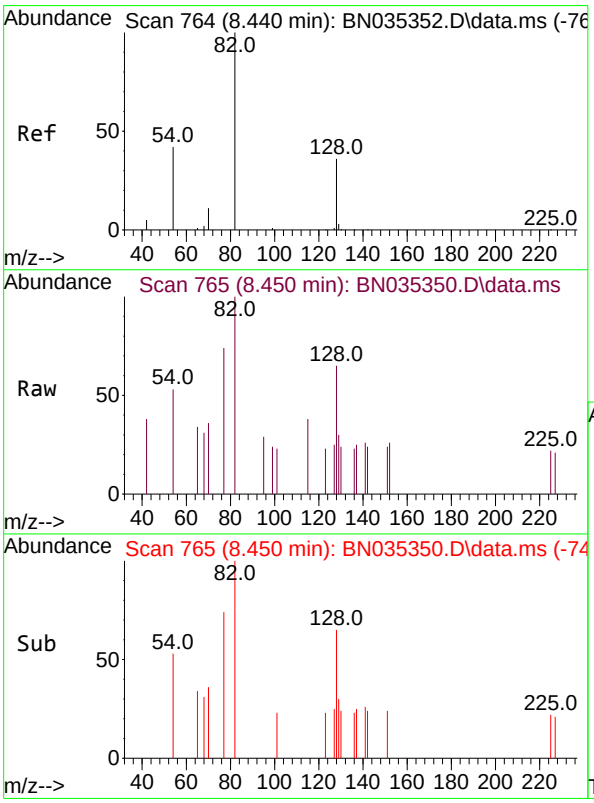
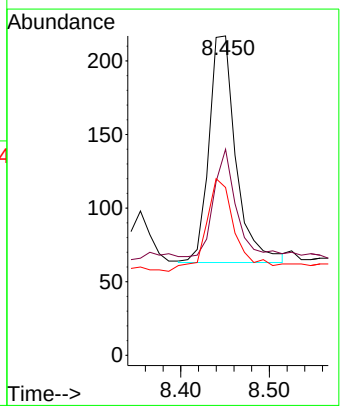
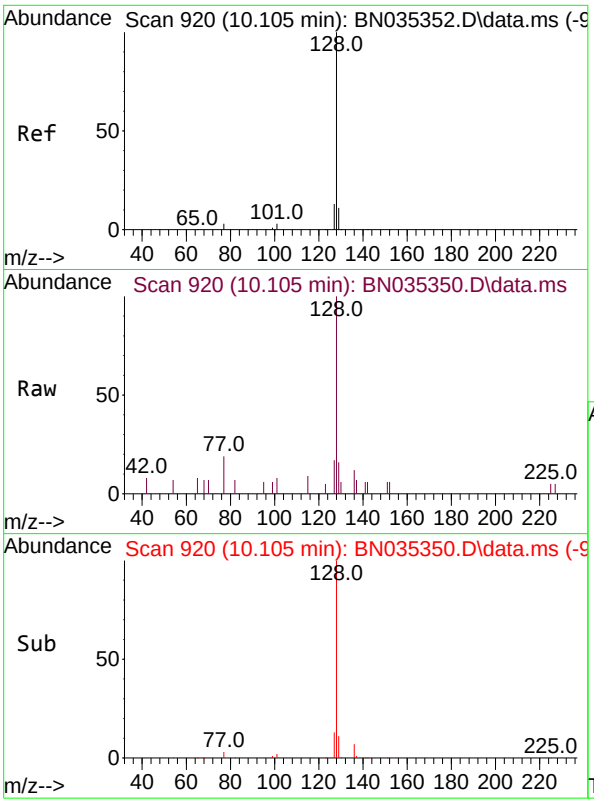


#8
Nitrobenzene-d5
Concen: 0.065 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 327

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





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

Tgt Ion:128 Resp: 152

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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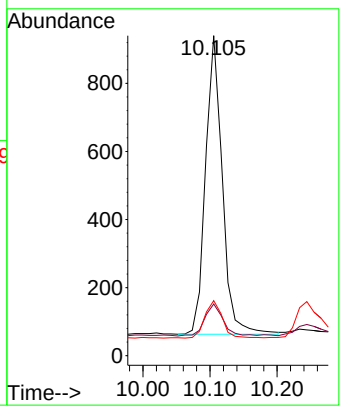
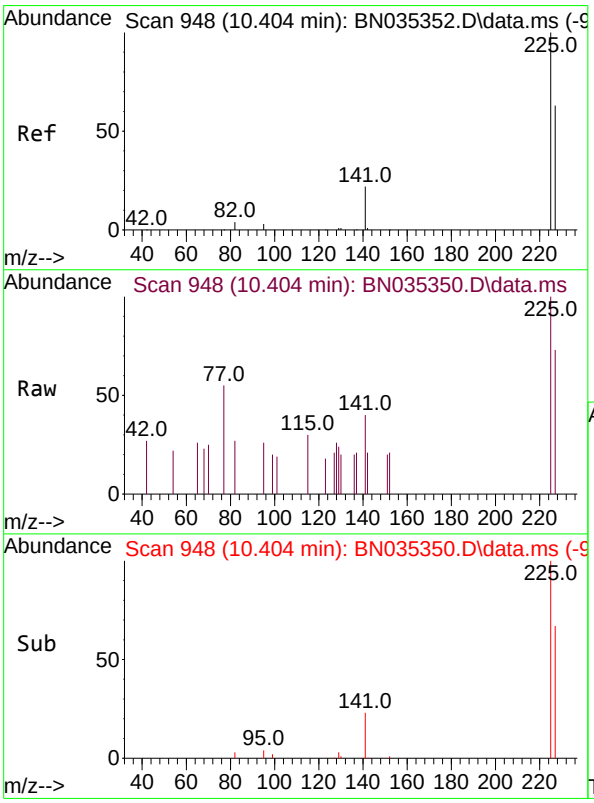
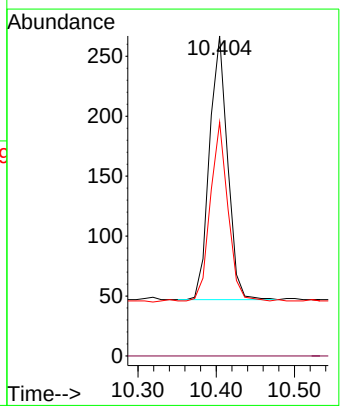


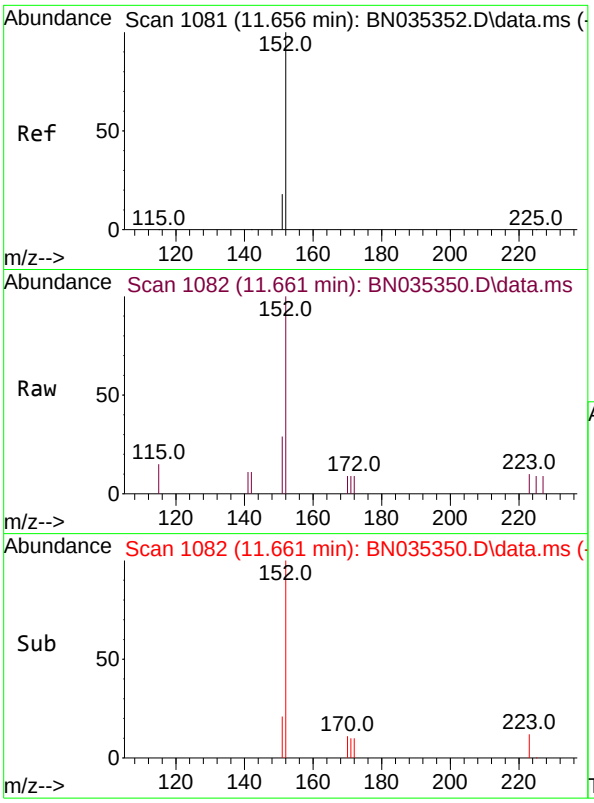


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

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

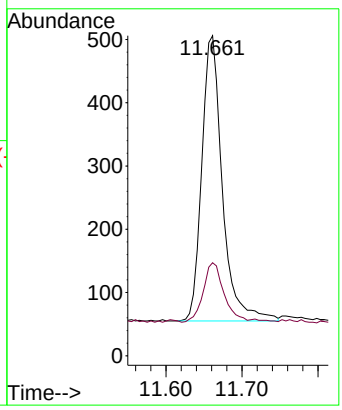




#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1(
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 85(

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
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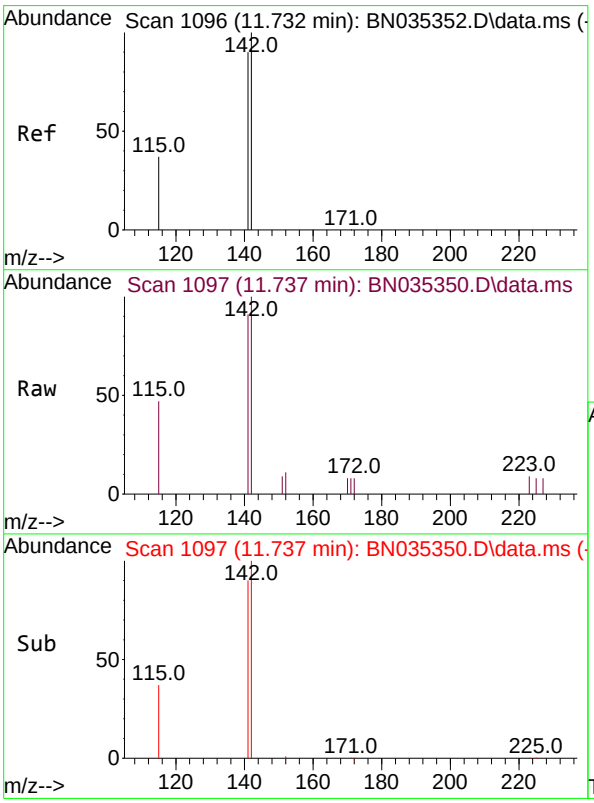
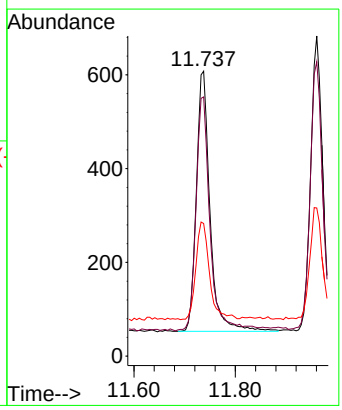
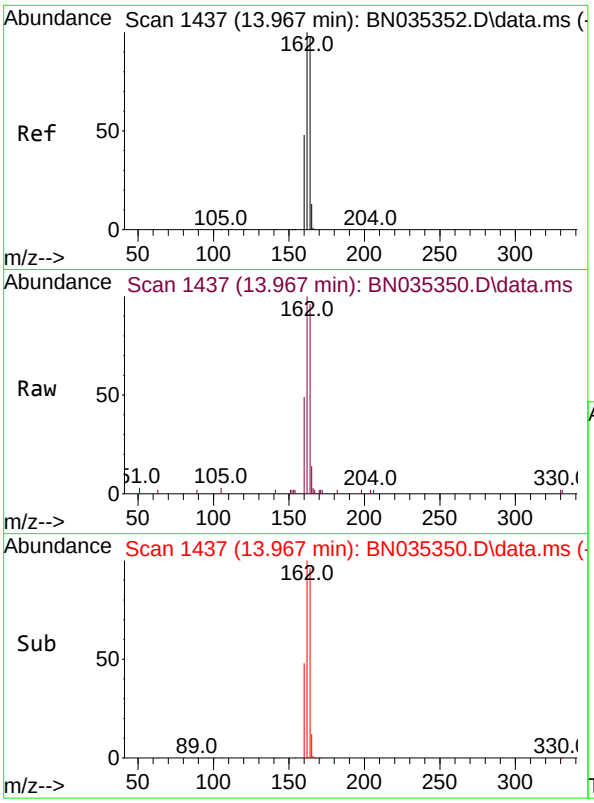


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

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





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

Tgt Ion:164 Resp: 407

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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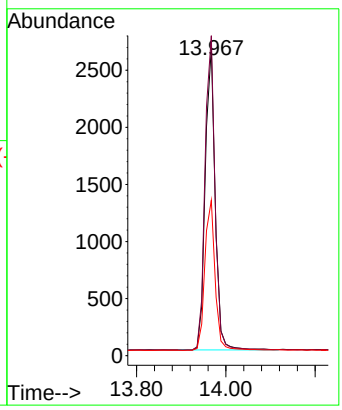
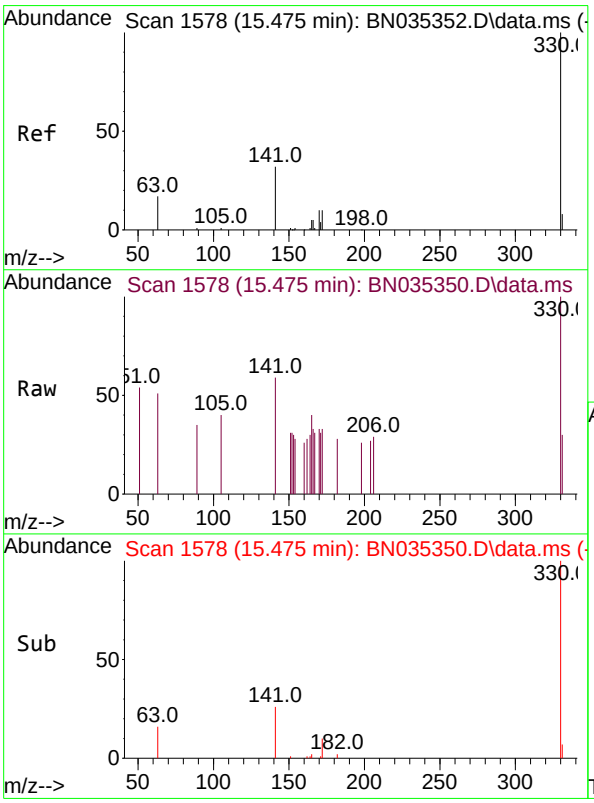
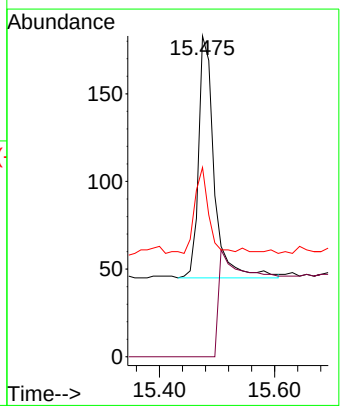


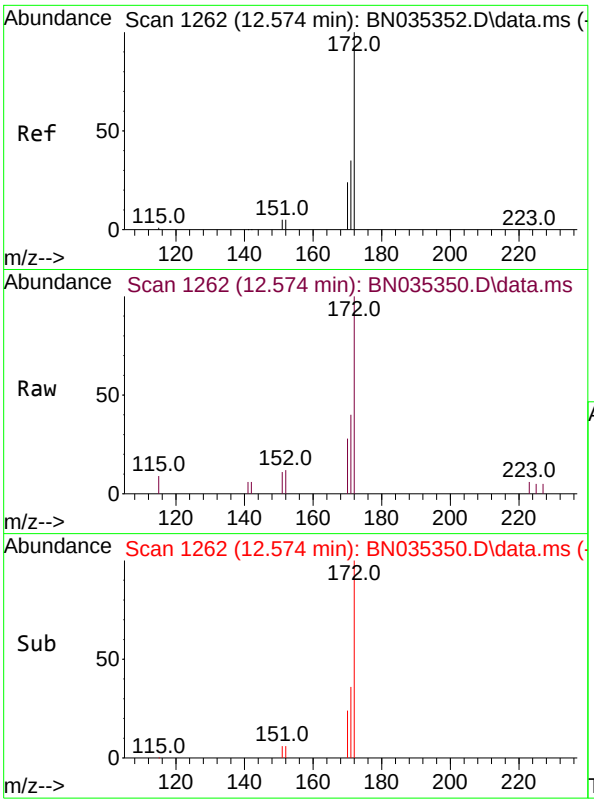


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

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

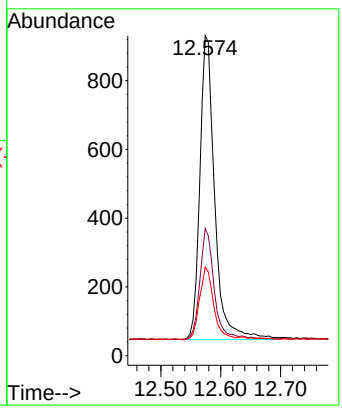




#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:172 Resp: 151

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



Instrument :
BNA_N
ClientSampleId :
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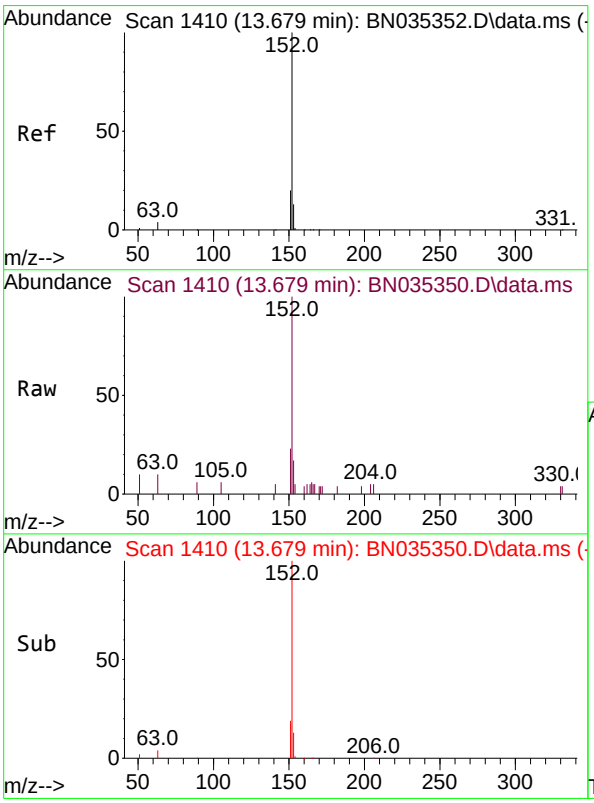
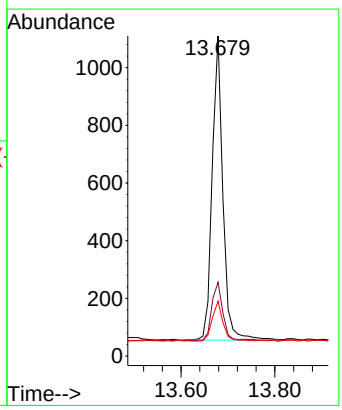
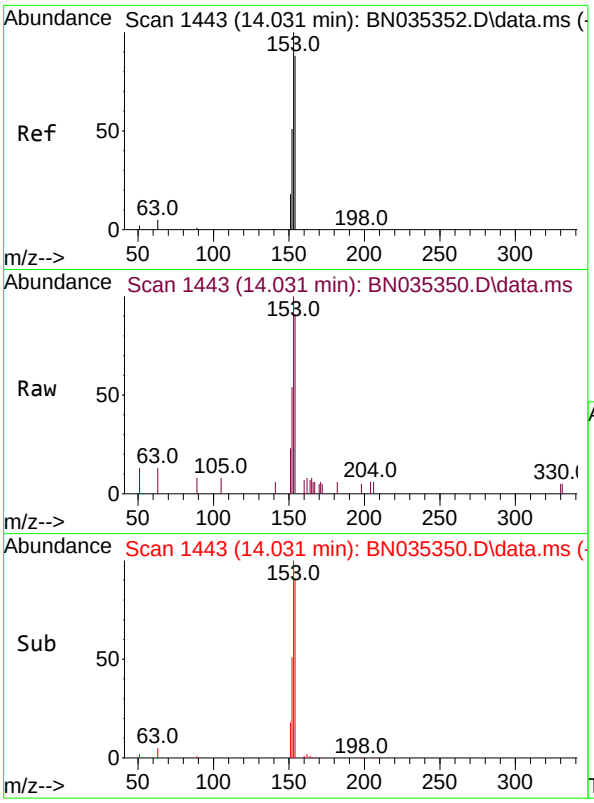


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

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

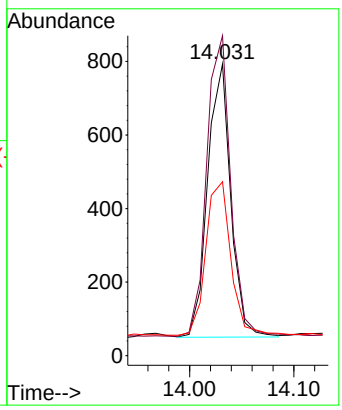




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:154 Resp: 114

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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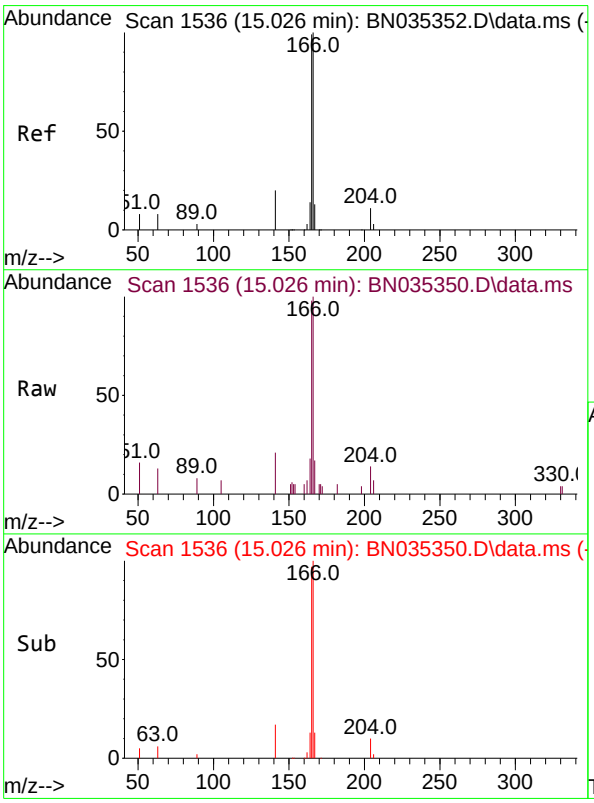
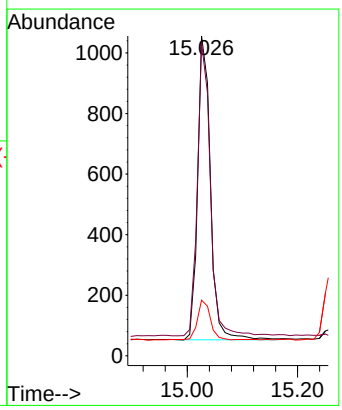
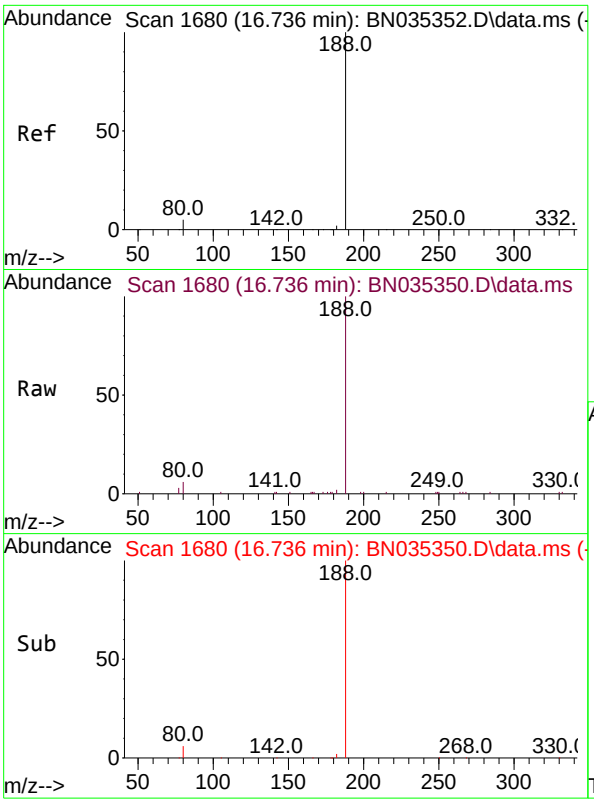


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

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

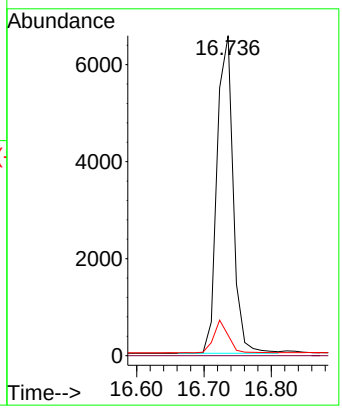




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:188 Resp: 1085

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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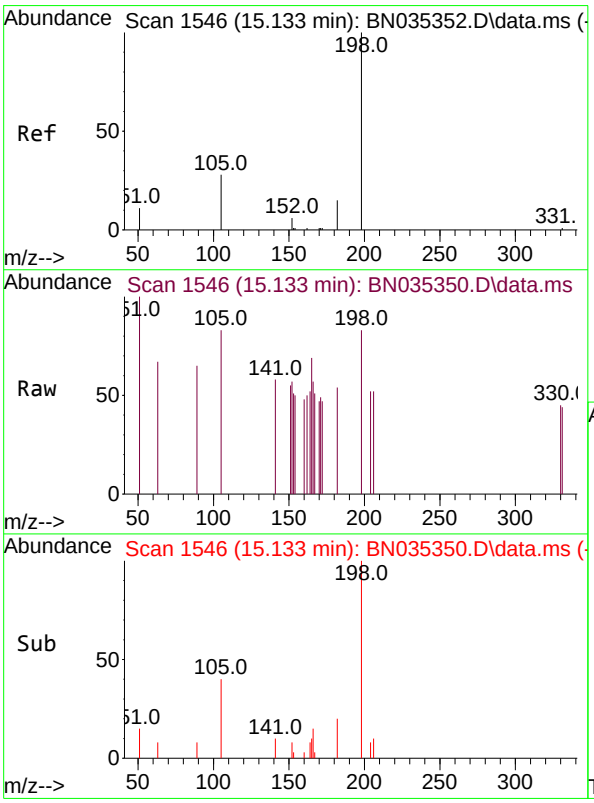
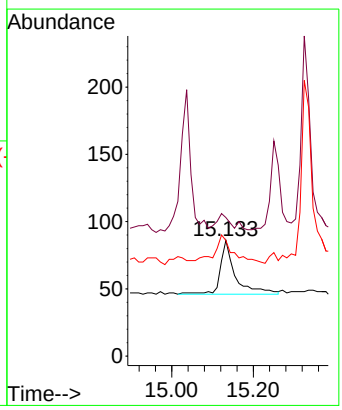
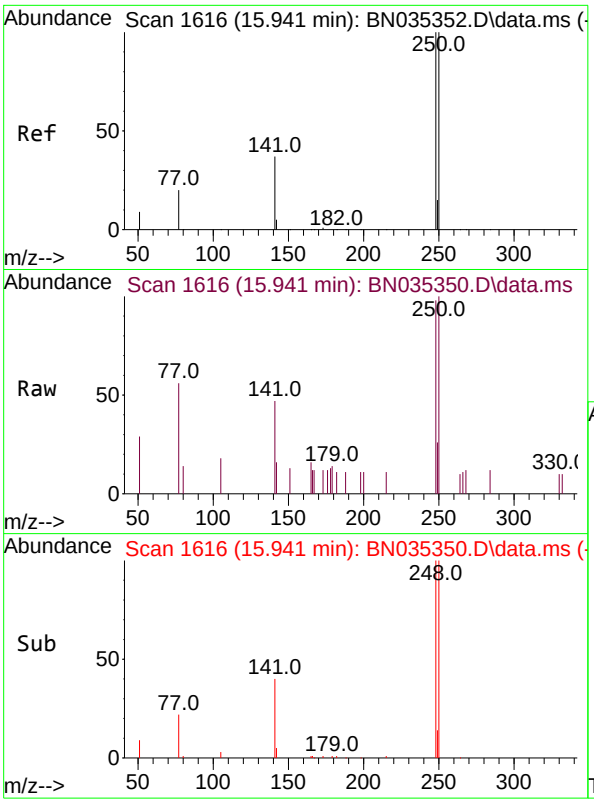


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

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

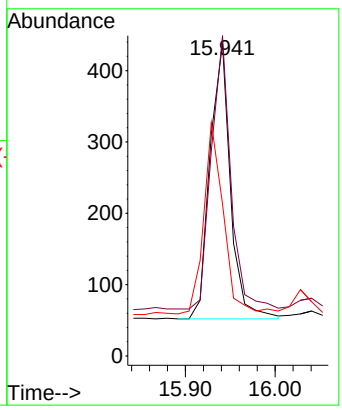




#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:248 Resp: 61

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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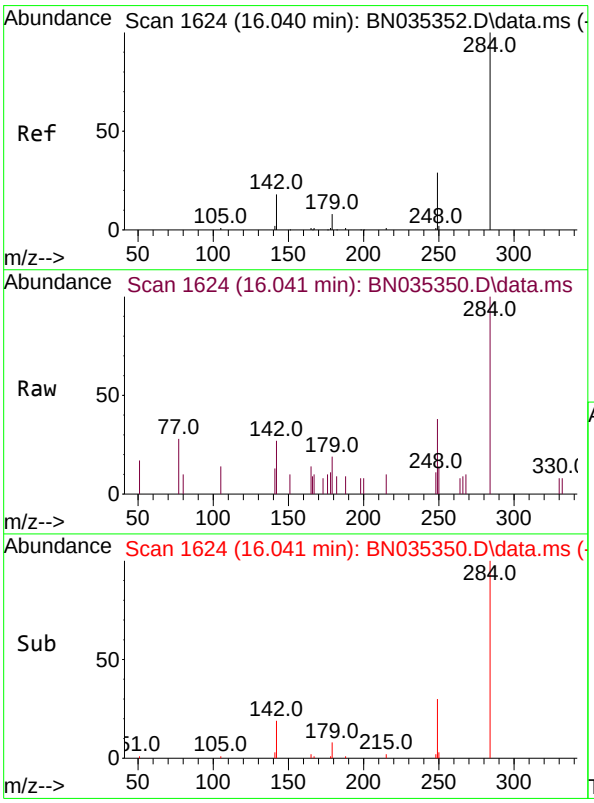
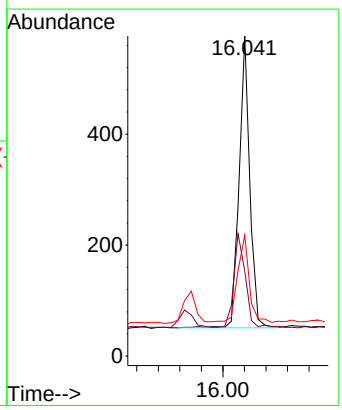
Supervised By :mohammad ahmed 12/03/2024

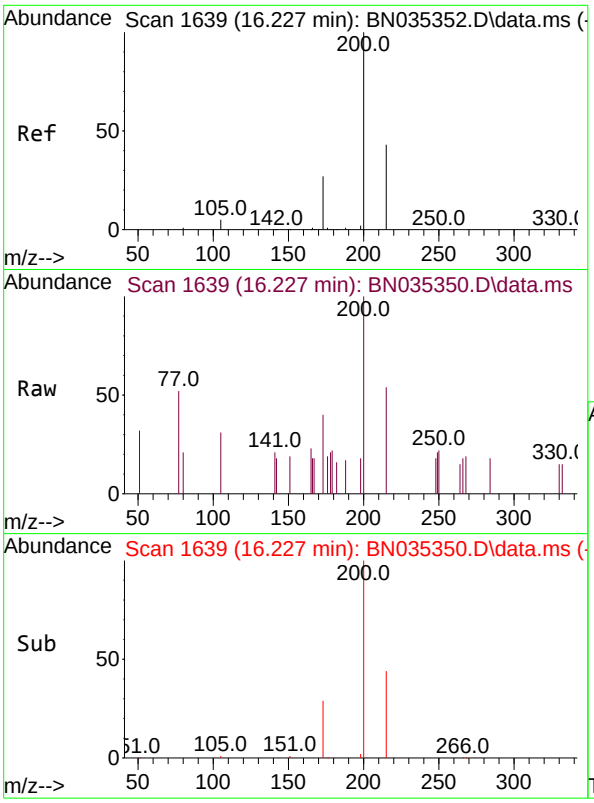


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

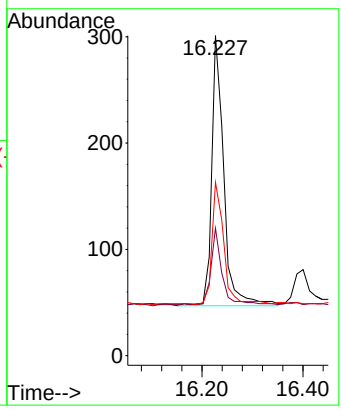




#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:200 Resp: 42

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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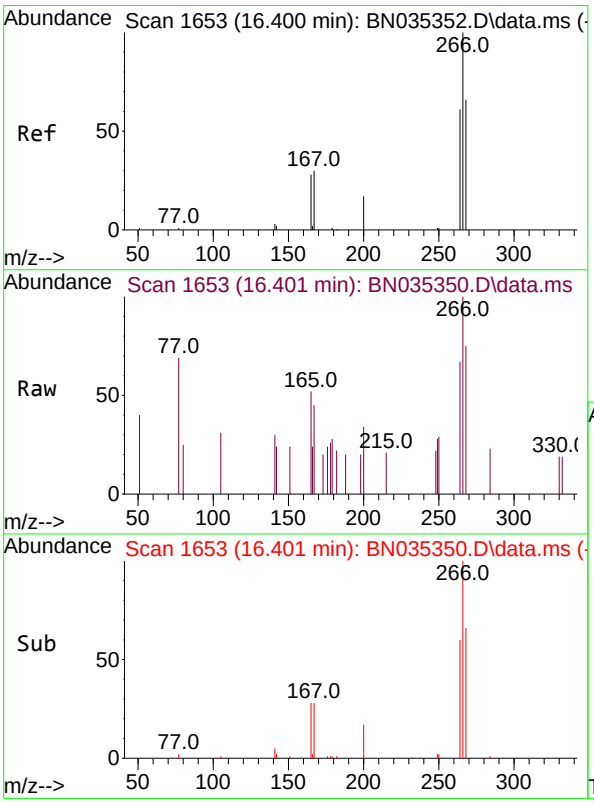
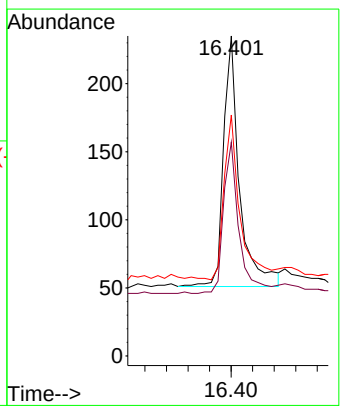
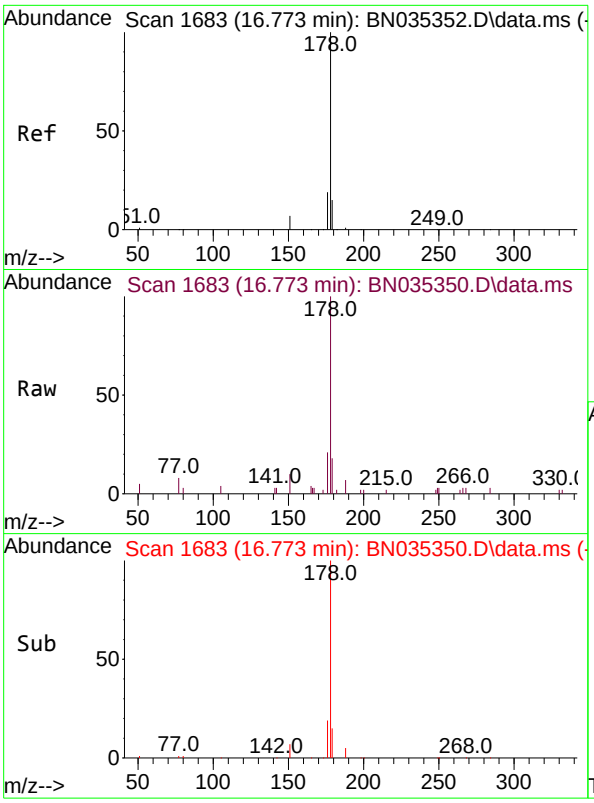


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

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

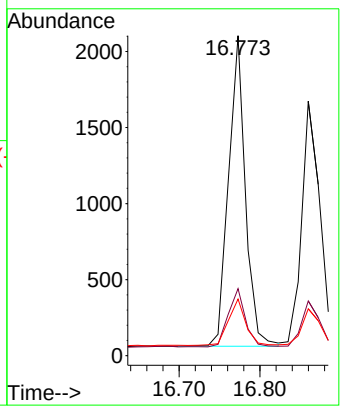




#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 296

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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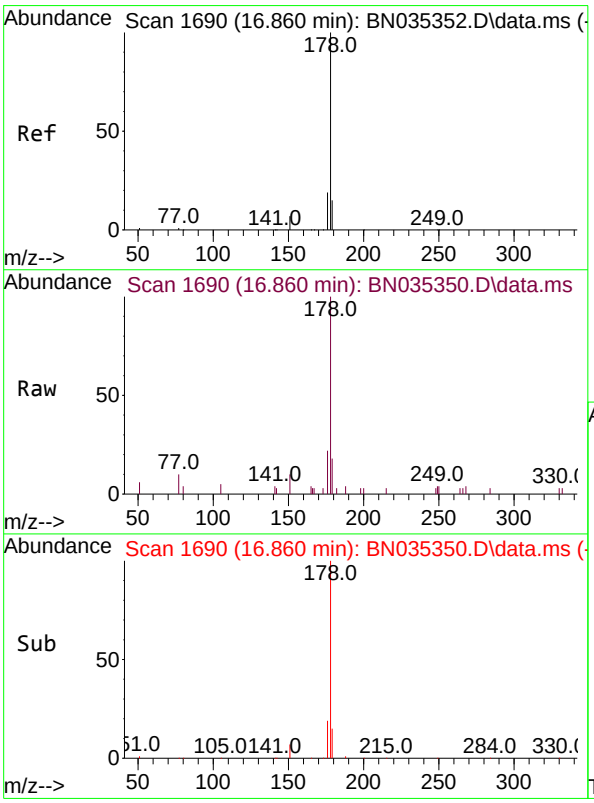
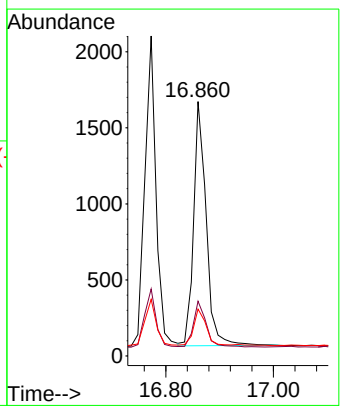
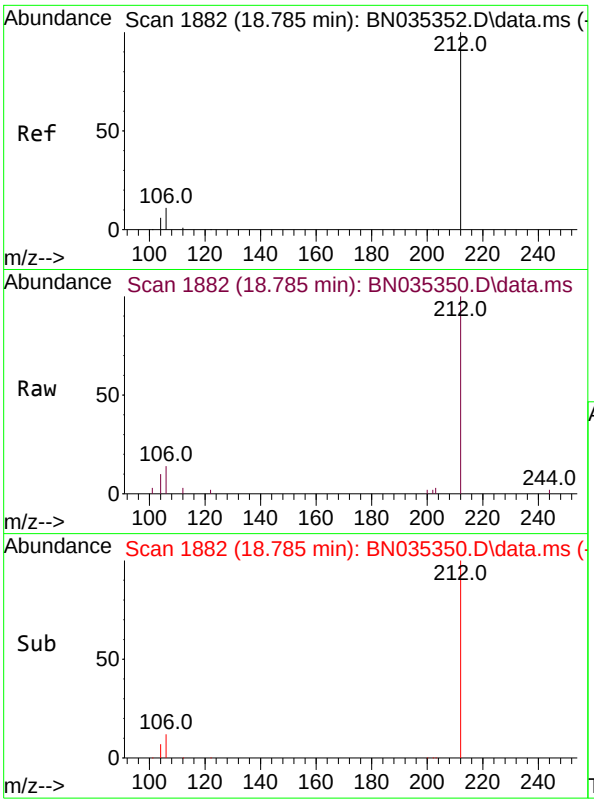


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

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

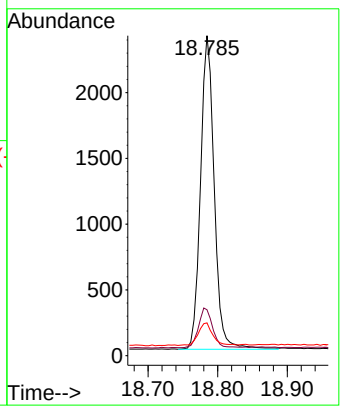




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:212 Resp: 326

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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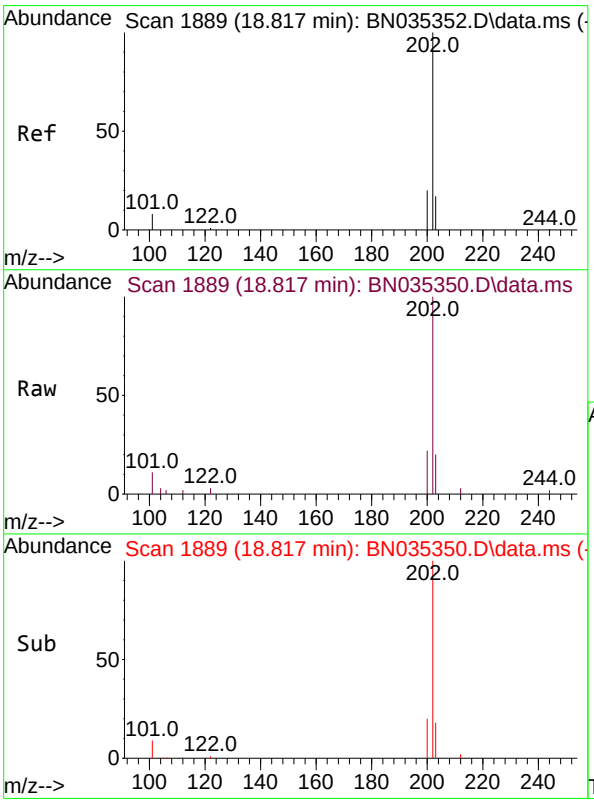
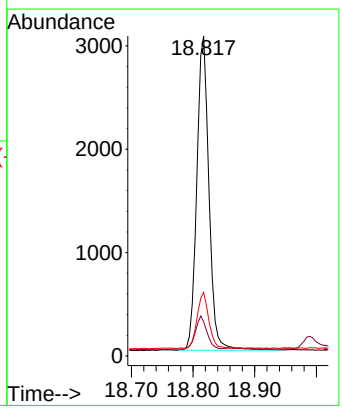
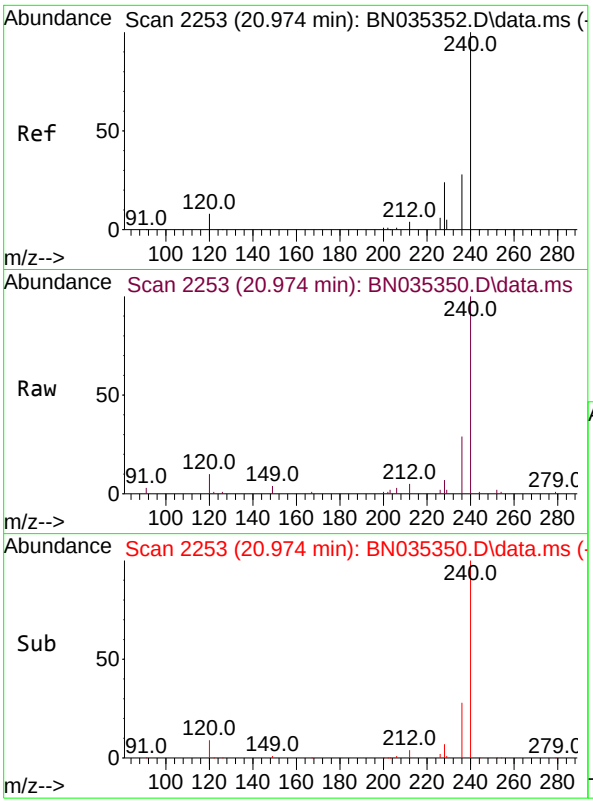


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

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

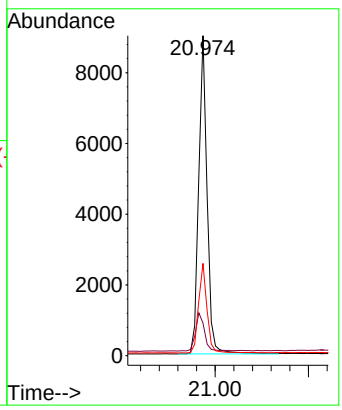




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:240 Resp: 1126

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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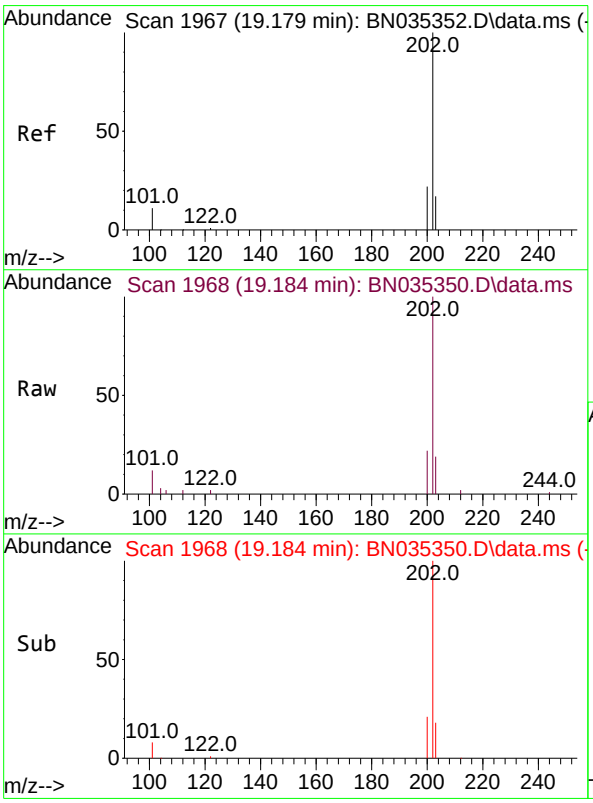
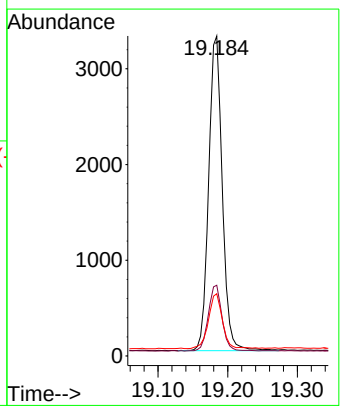
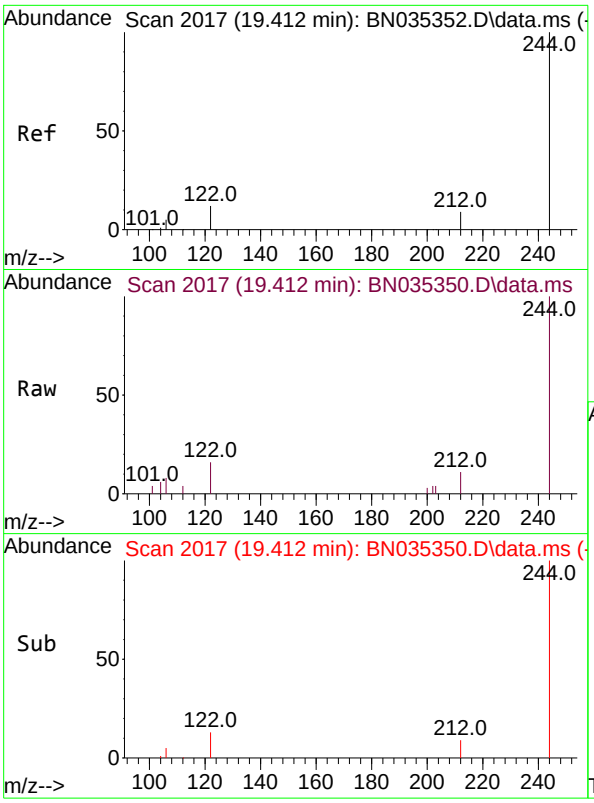


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

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

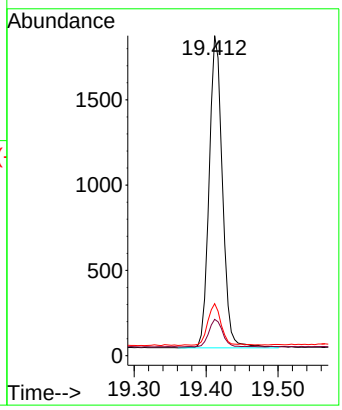




#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:244 Resp: 234

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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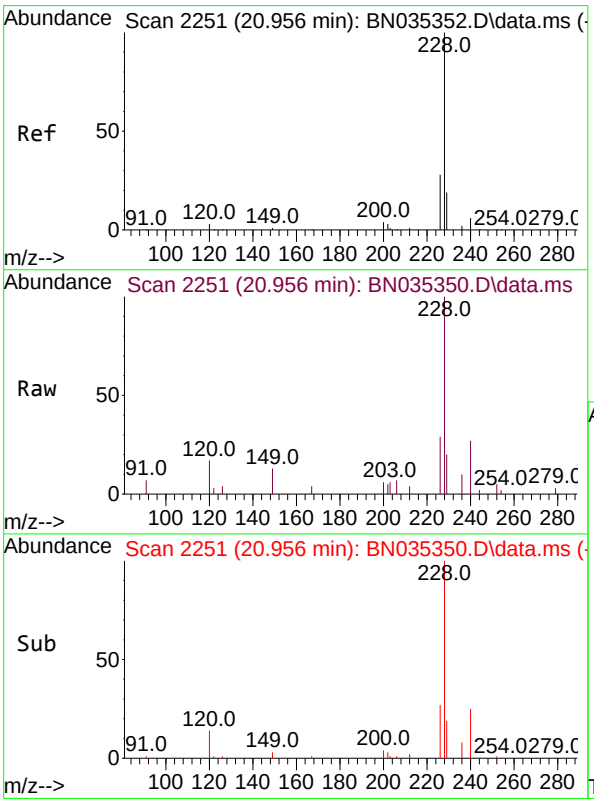
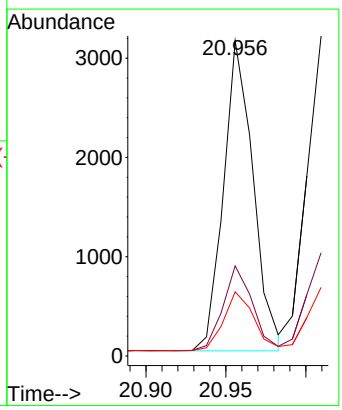
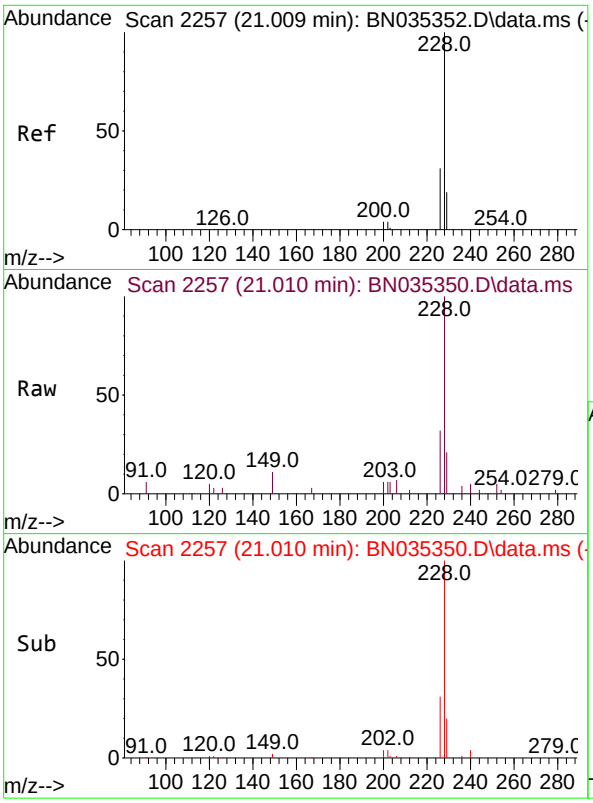


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

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

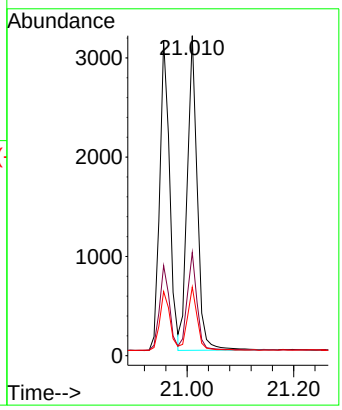




#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 412

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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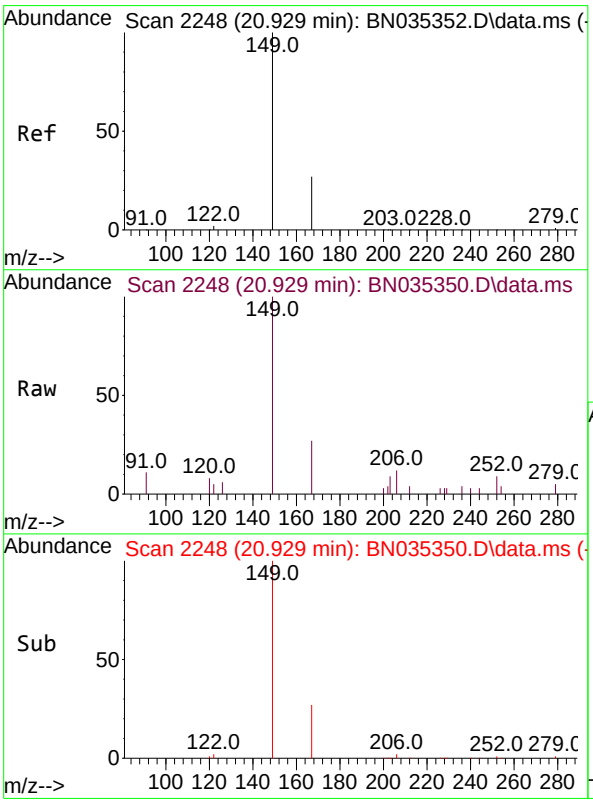
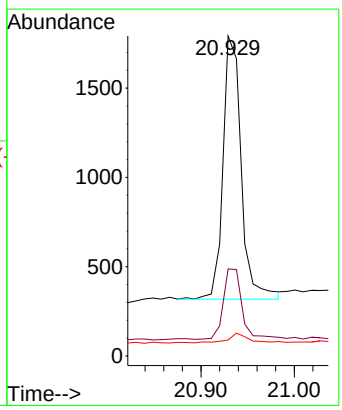
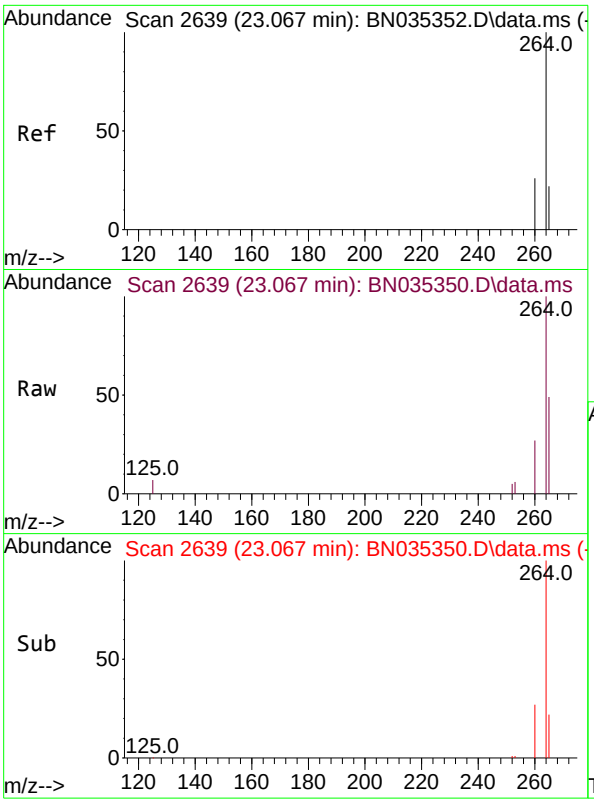


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

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

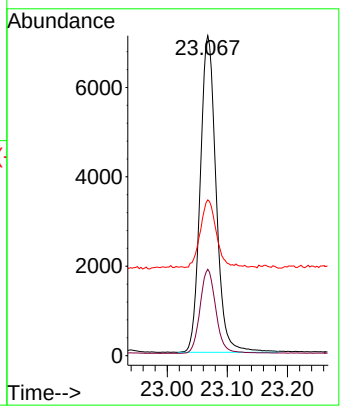




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:264 Resp: 1300

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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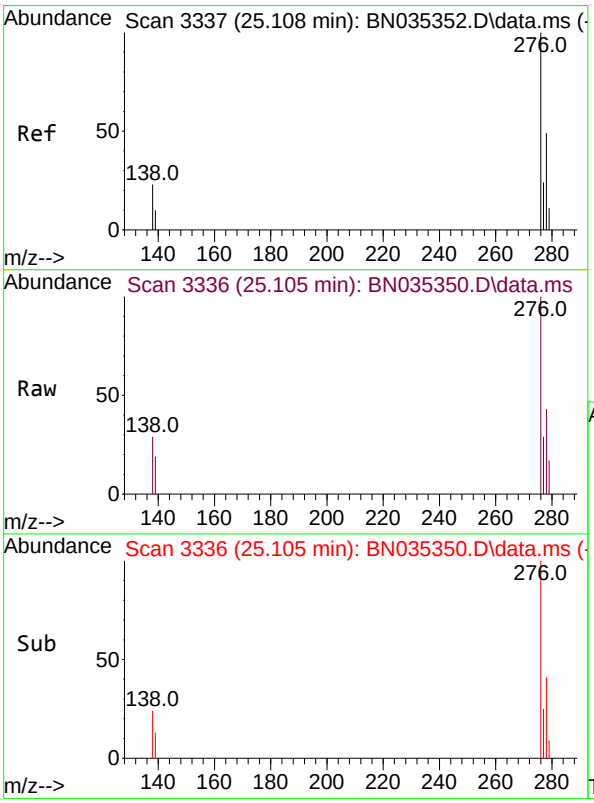
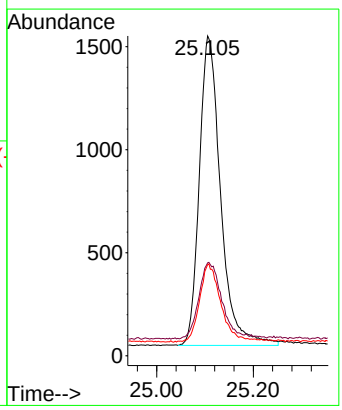
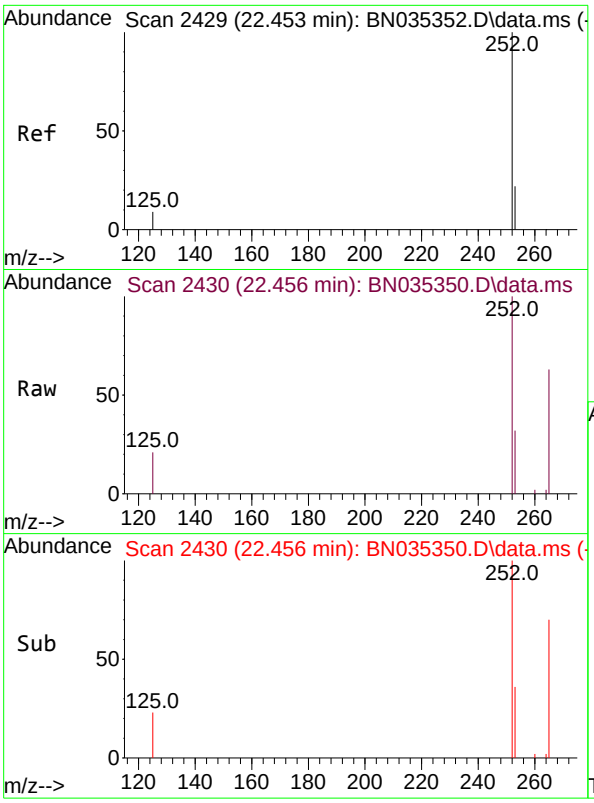


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

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





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

Tgt Ion:252 Resp: 424

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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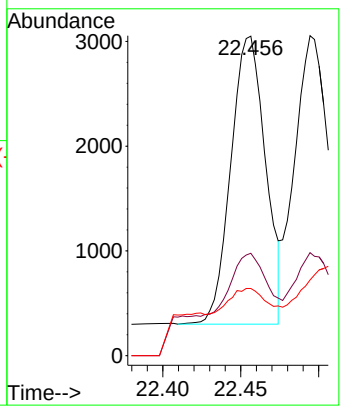
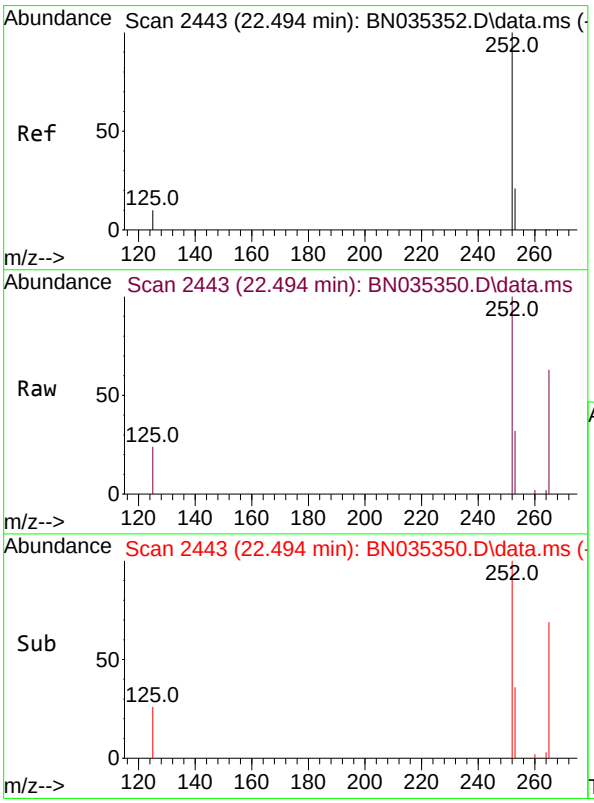
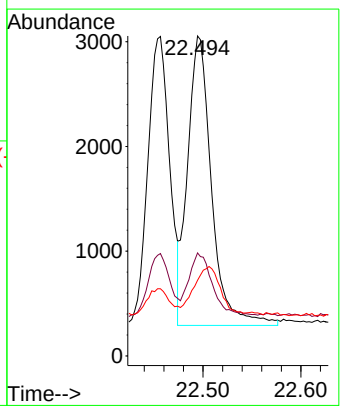


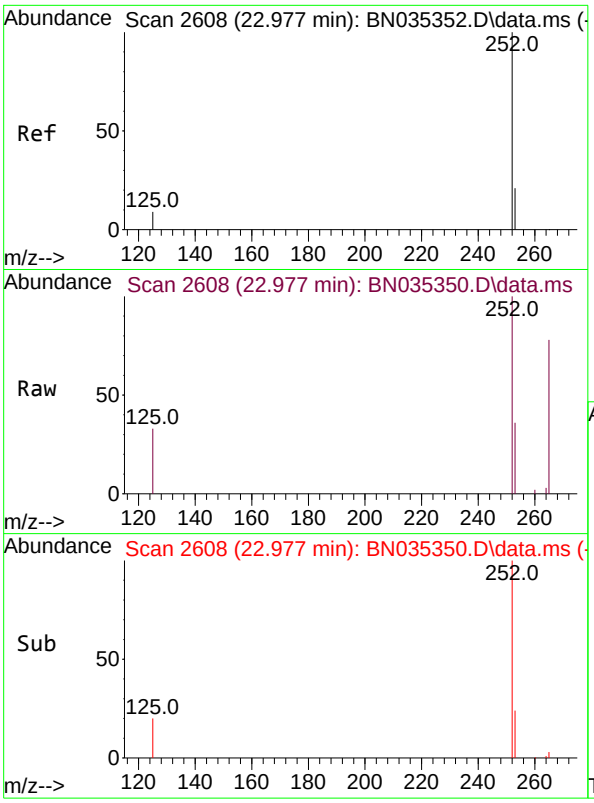


#38
Benzo(k)fluoranthene
Concen: 0.107 ng m
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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#

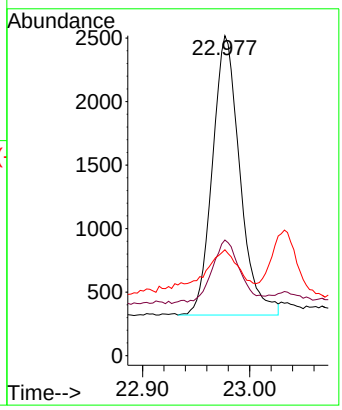




#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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

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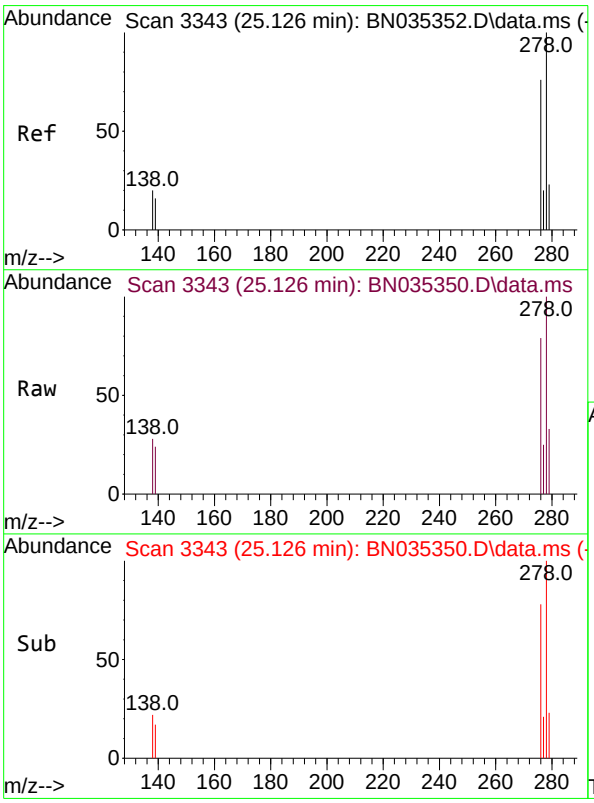
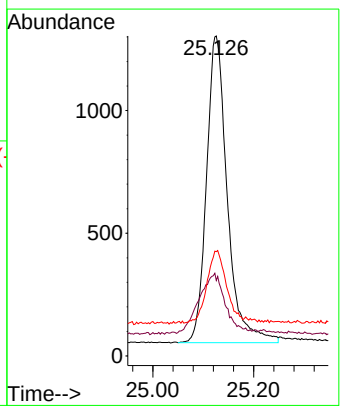
Supervised By :mohammad ahmed 12/03/2024

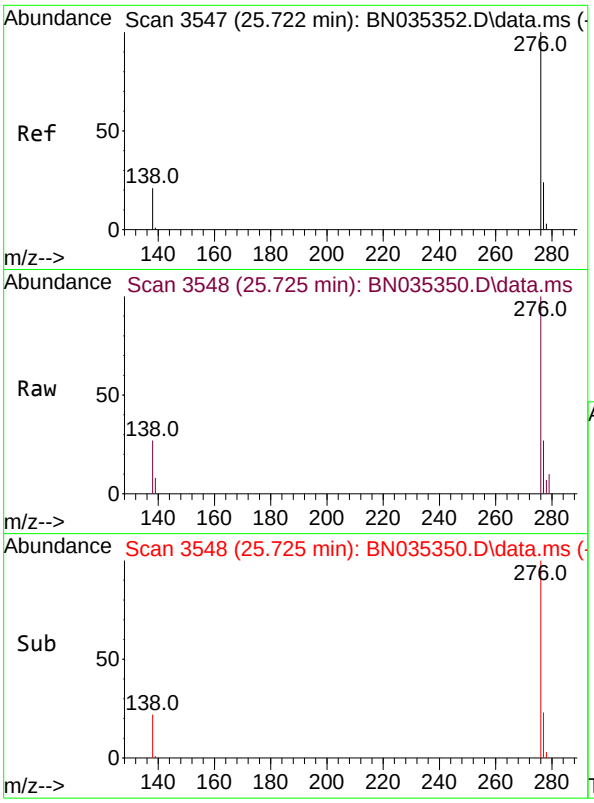


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

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

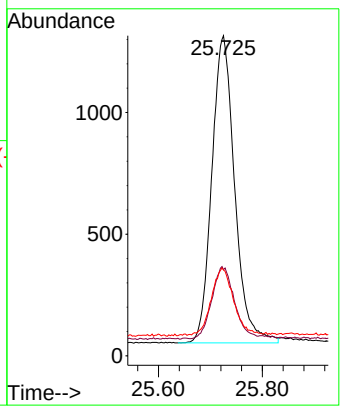




#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 386

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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

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

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

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

ICAL Form

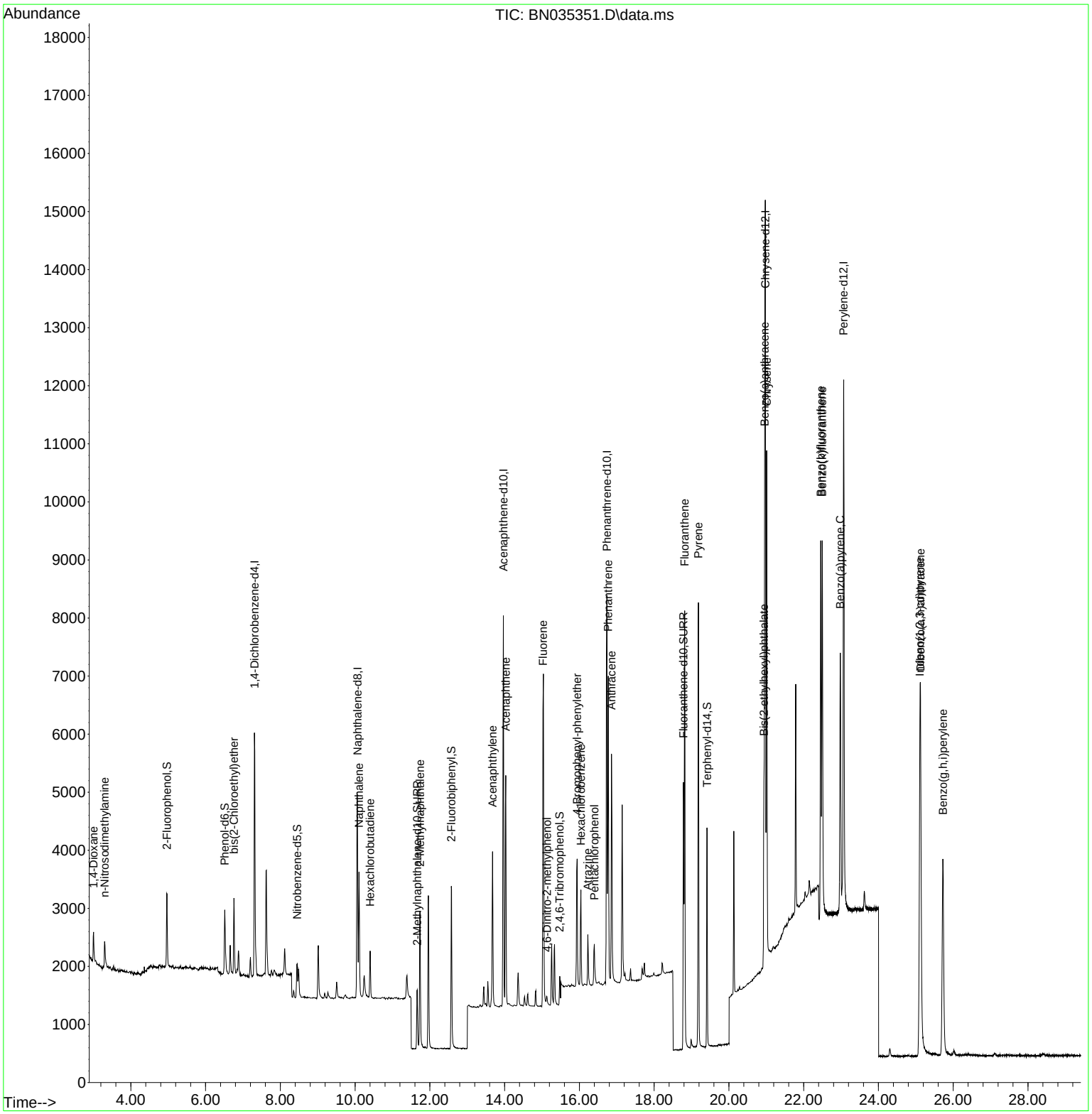
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

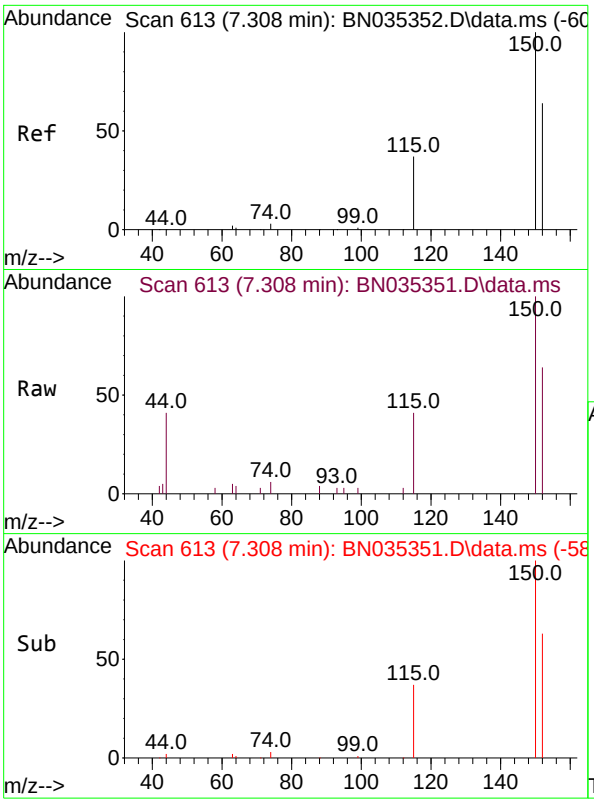
Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations APPROVED

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

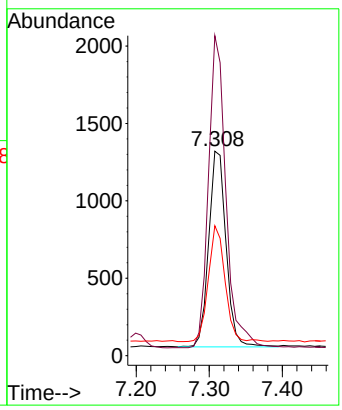




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 208

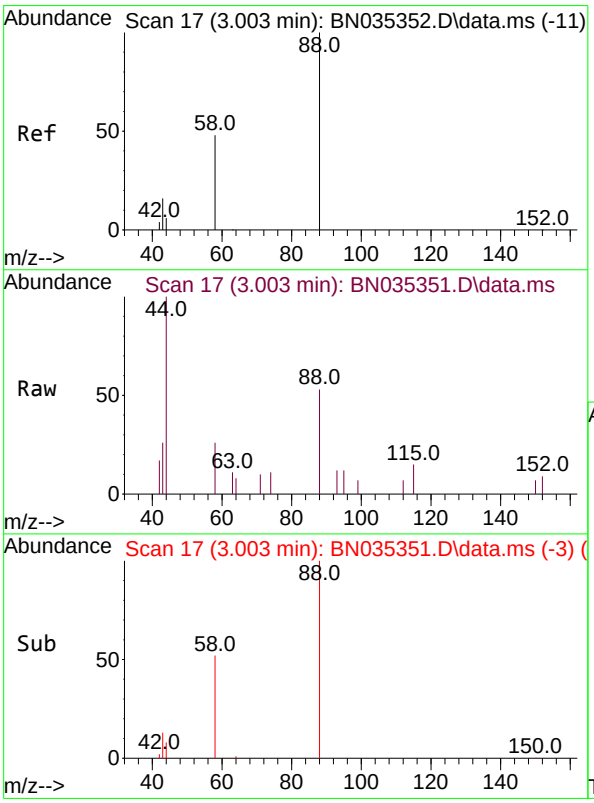
Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

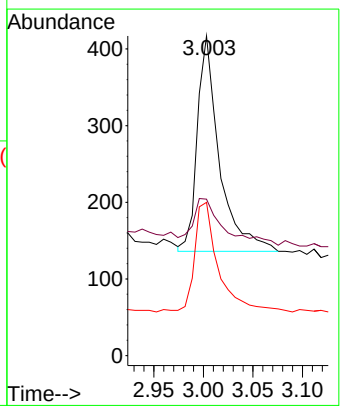
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

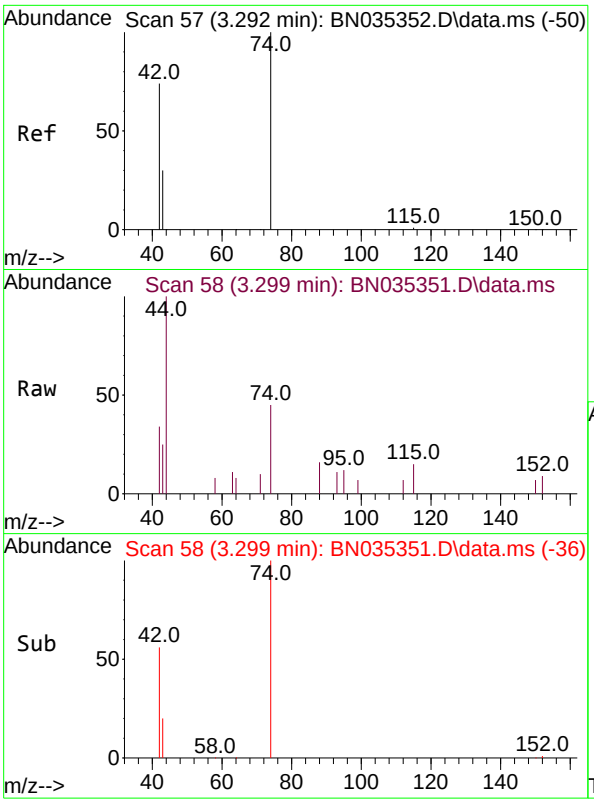


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

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

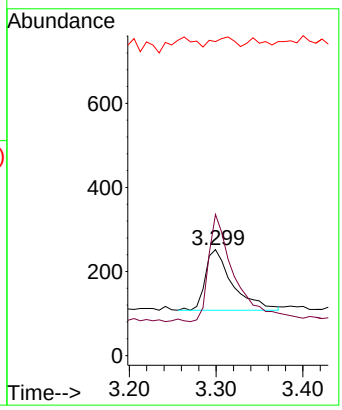




#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 42 Resp: 31

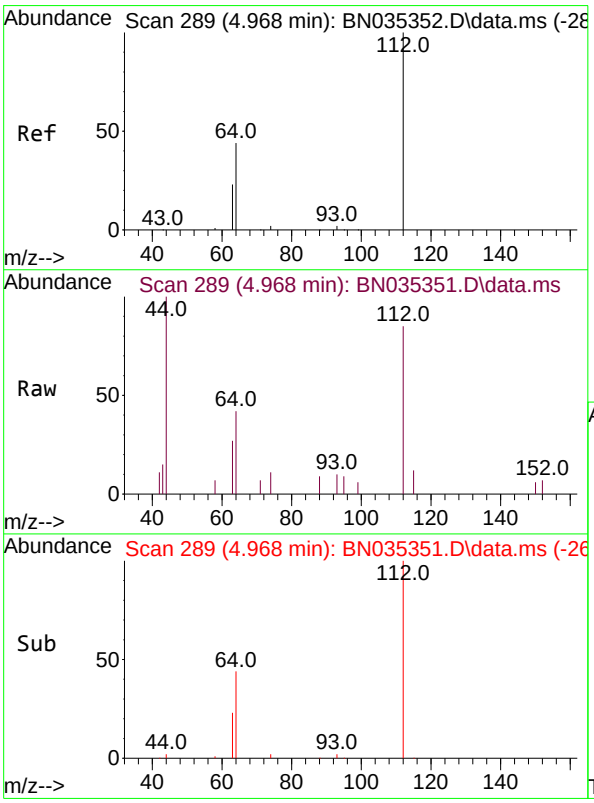
Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

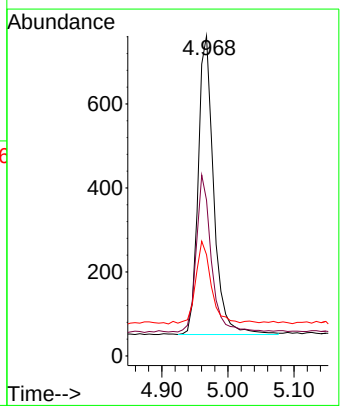
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

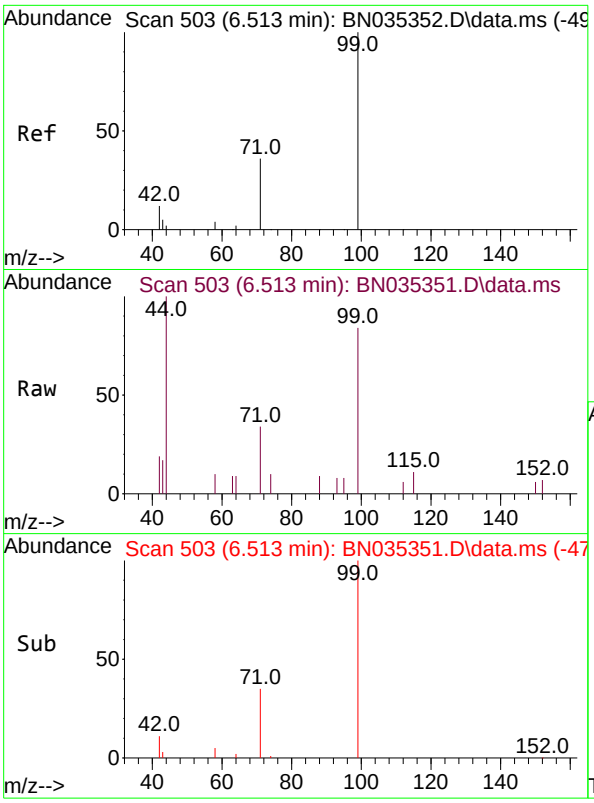


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

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

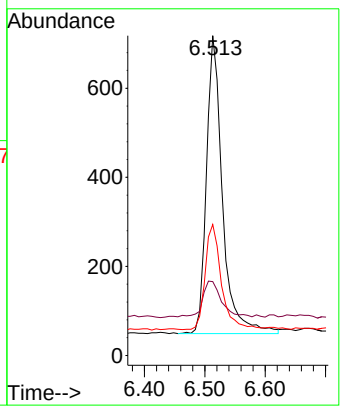




#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 99 Resp: 123(

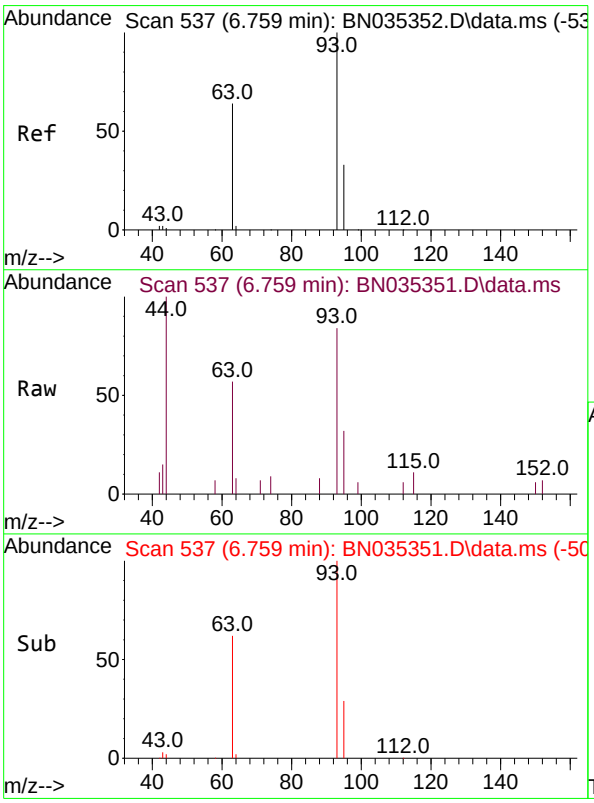
Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

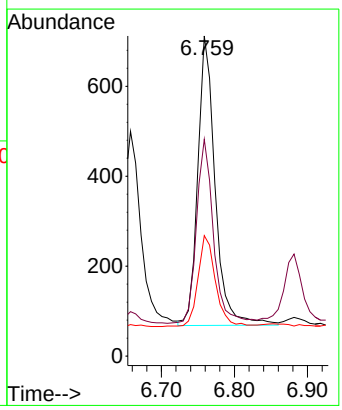
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

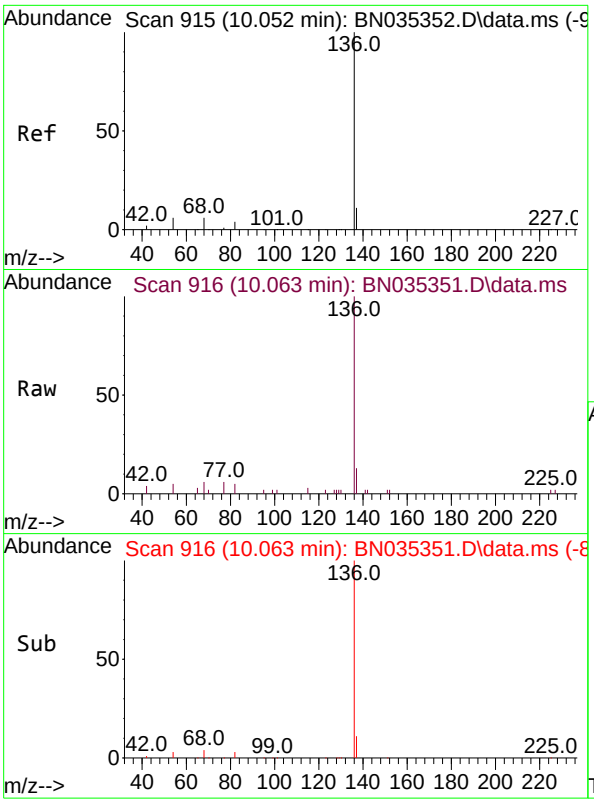


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

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

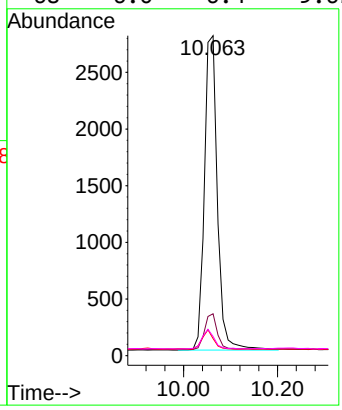




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:136 Resp: 533

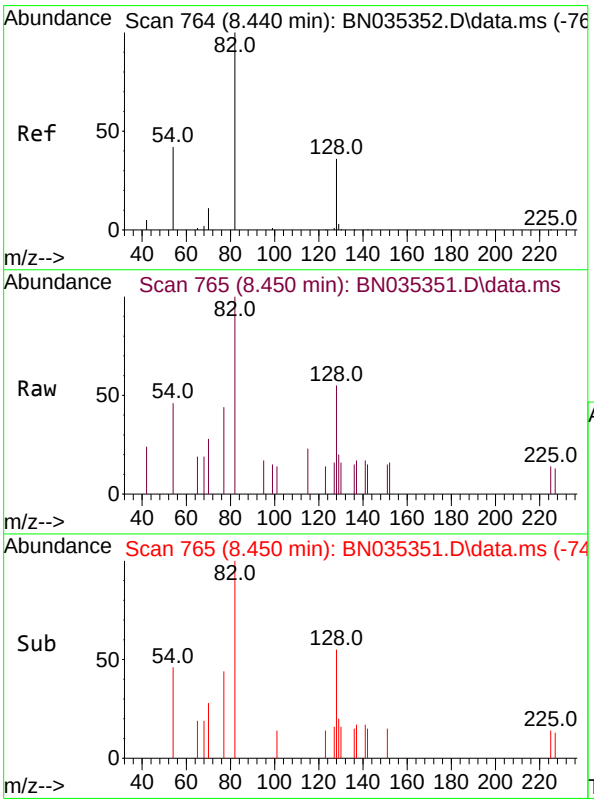
Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

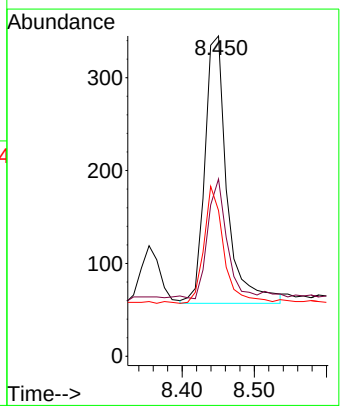
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

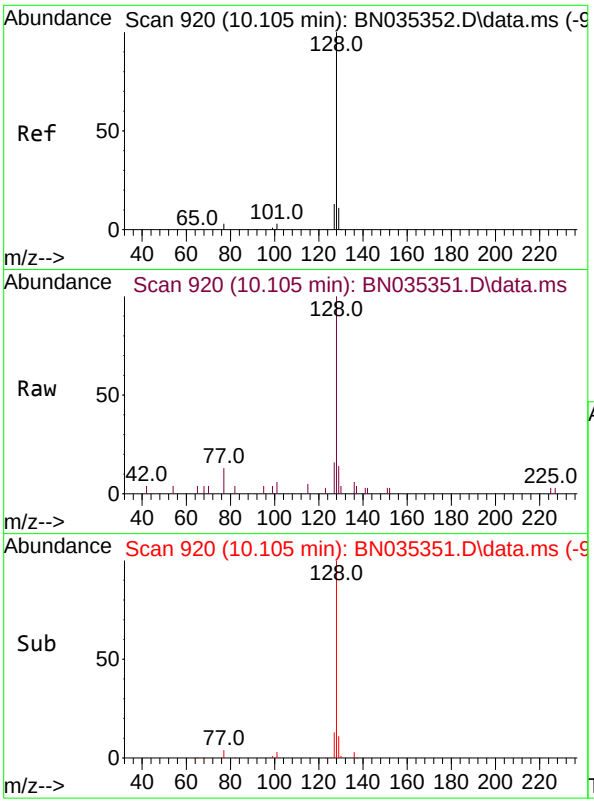


#8
Nitrobenzene-d5
Concen: 0.133 ng m
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 618

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

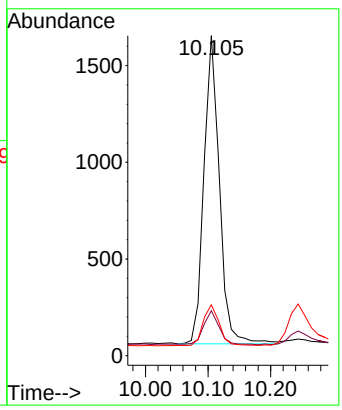




#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:128 Resp: 274

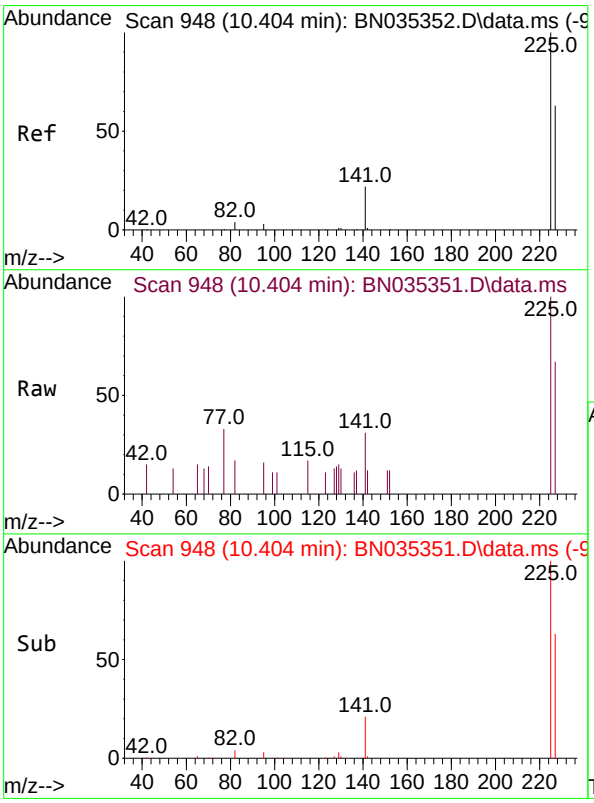
Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

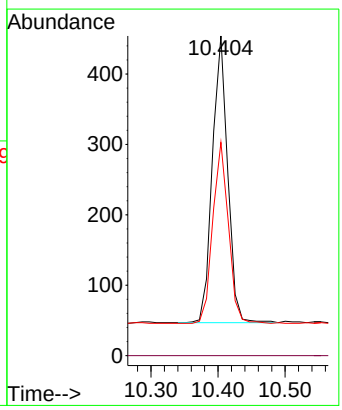
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

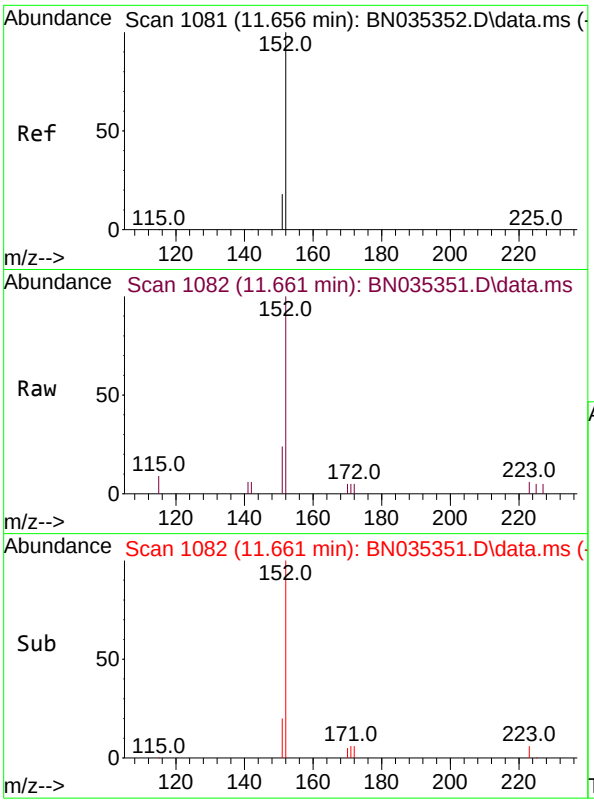


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

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

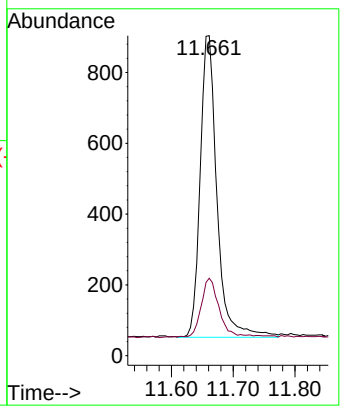




#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 160

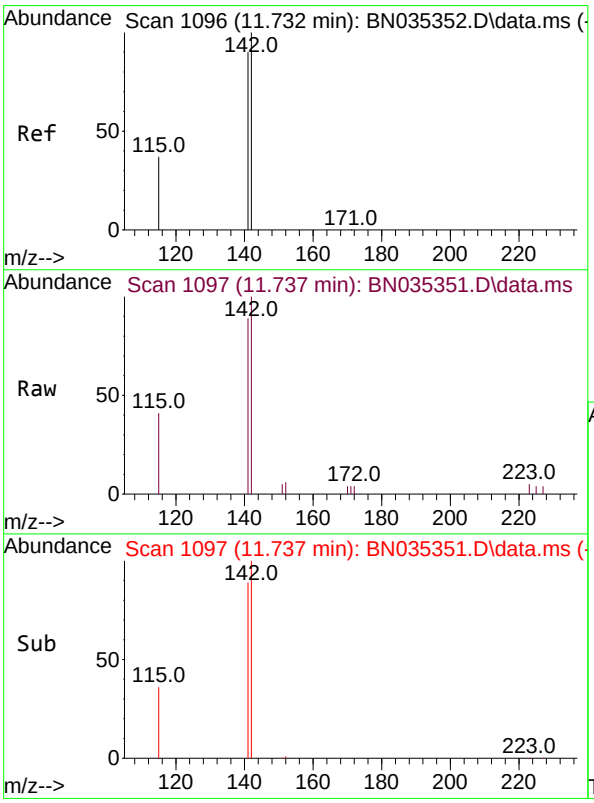
Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

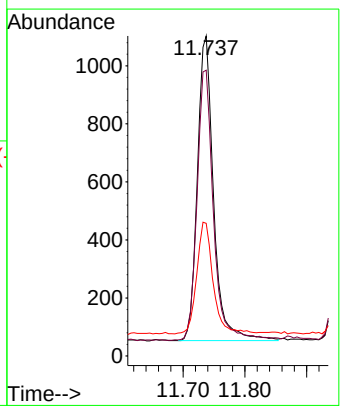
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

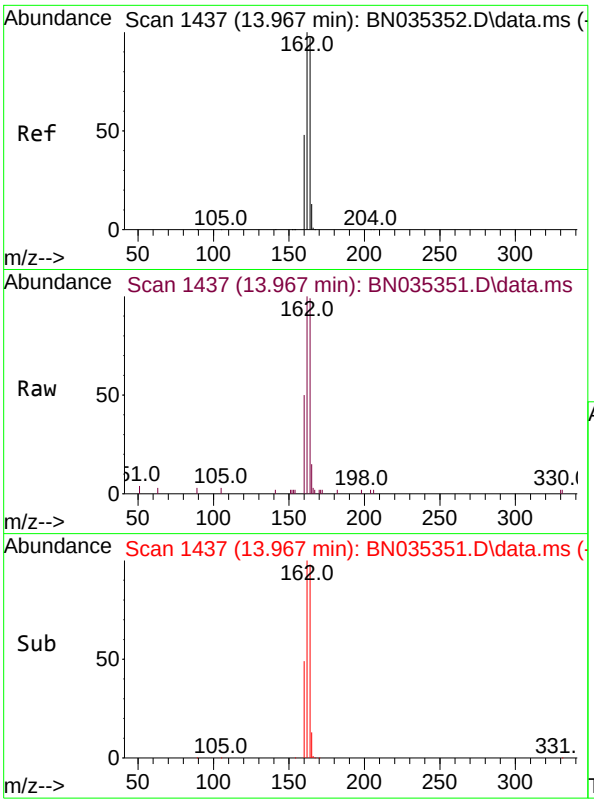


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

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

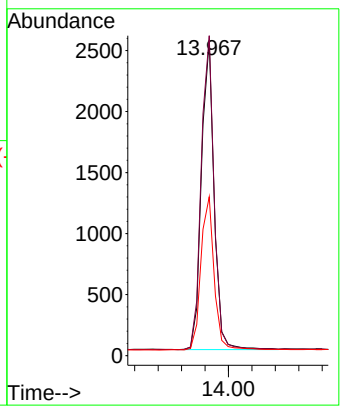




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:164 Resp: 380

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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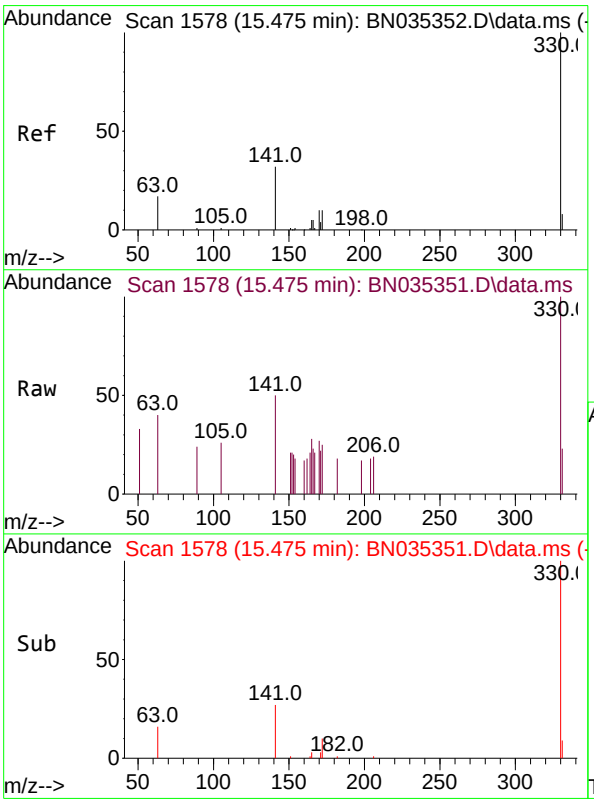
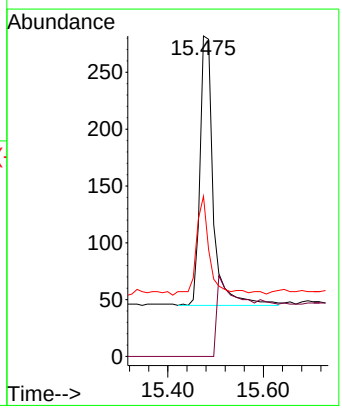
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

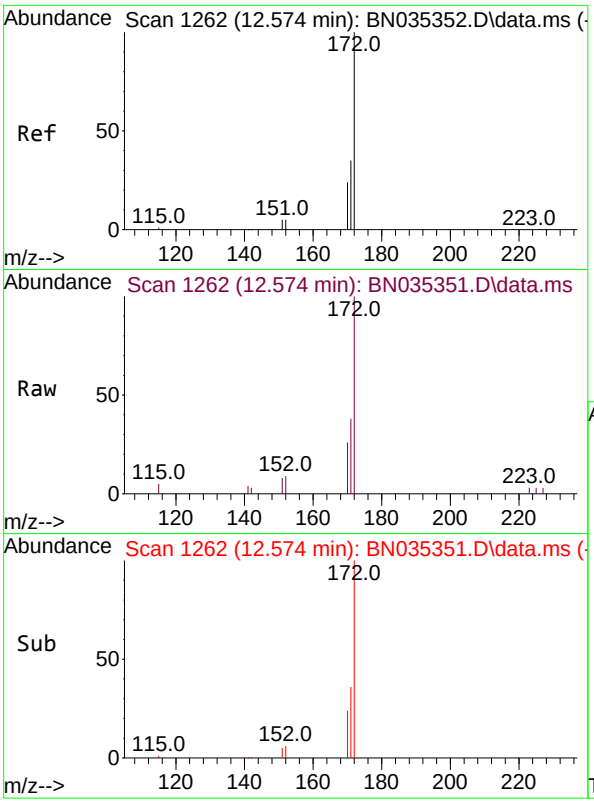


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

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

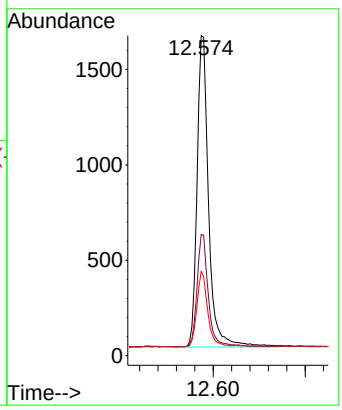




#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:172 Resp: 283

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



Instrument :
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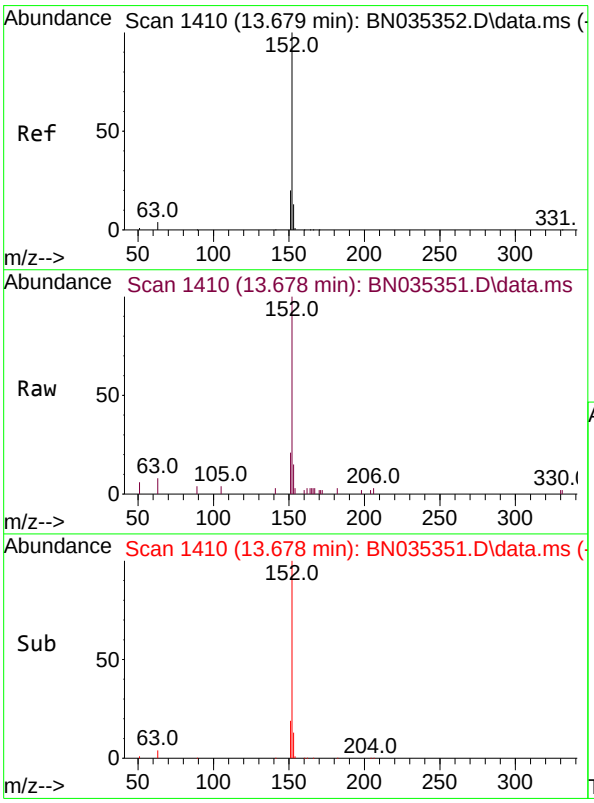
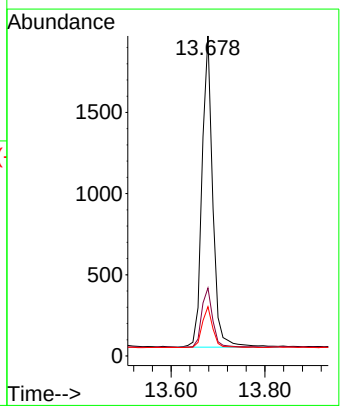
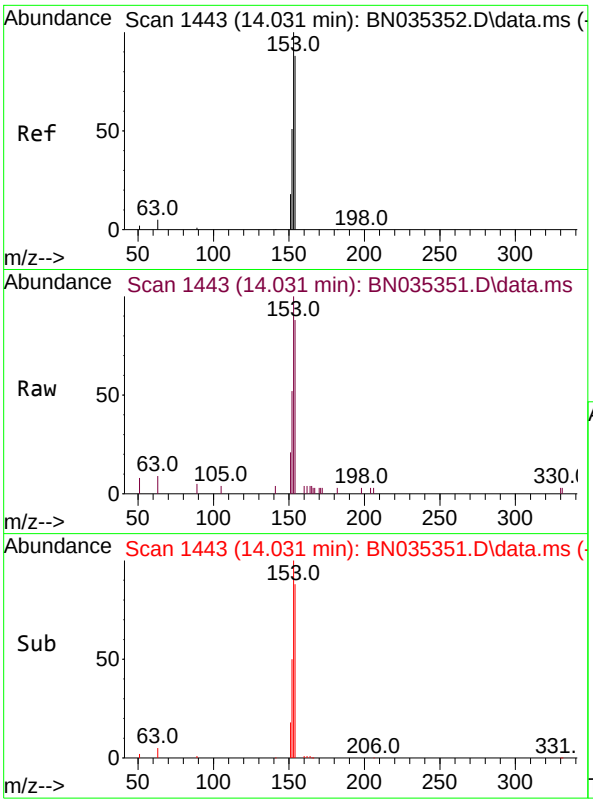


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

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

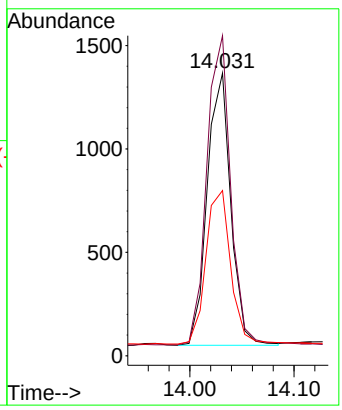




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:154 Resp: 206

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



Instrument :
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ClientSampleId :
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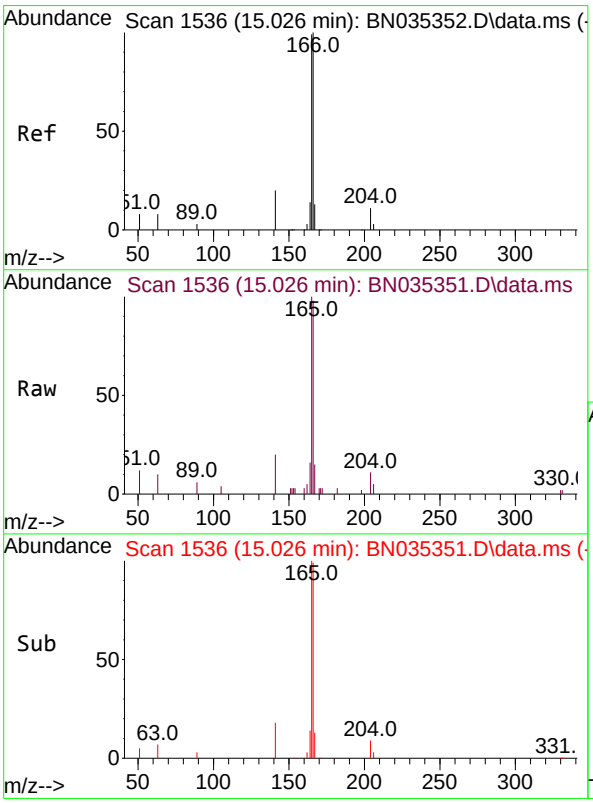
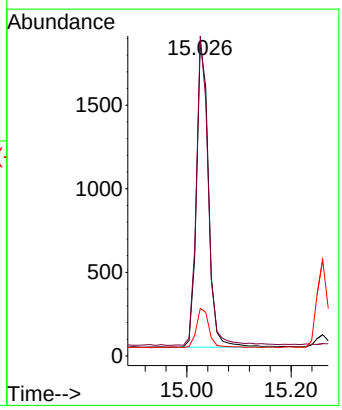
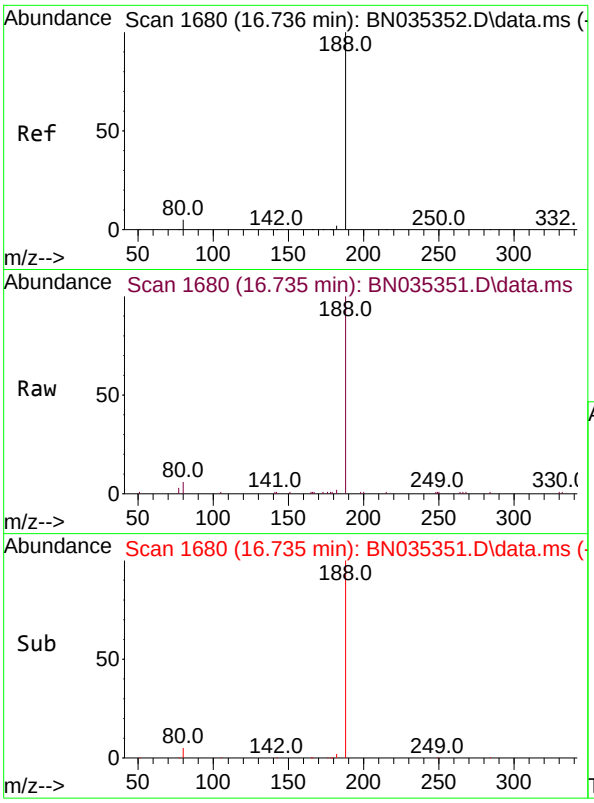


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

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

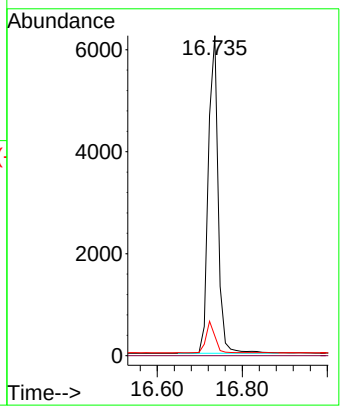




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:188 Resp: 990

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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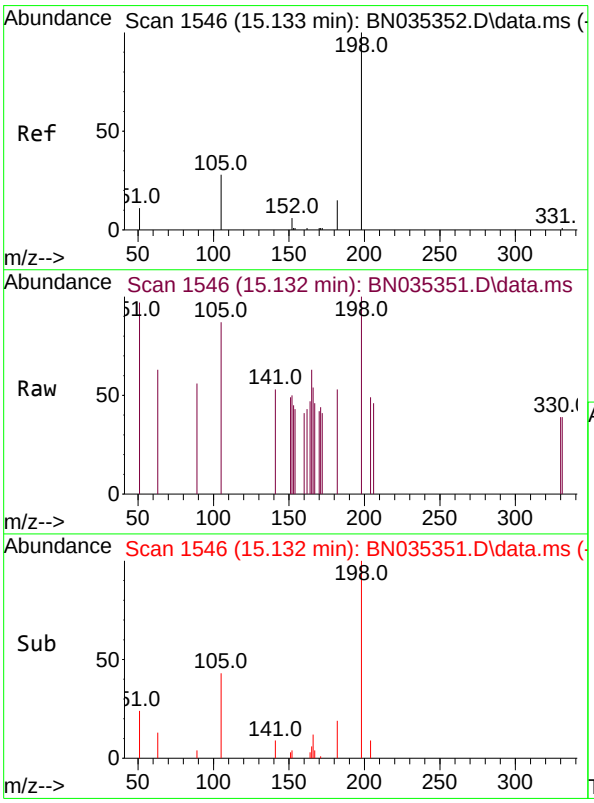
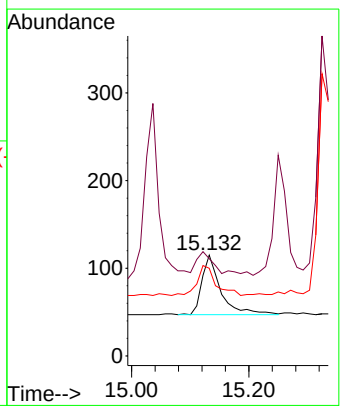
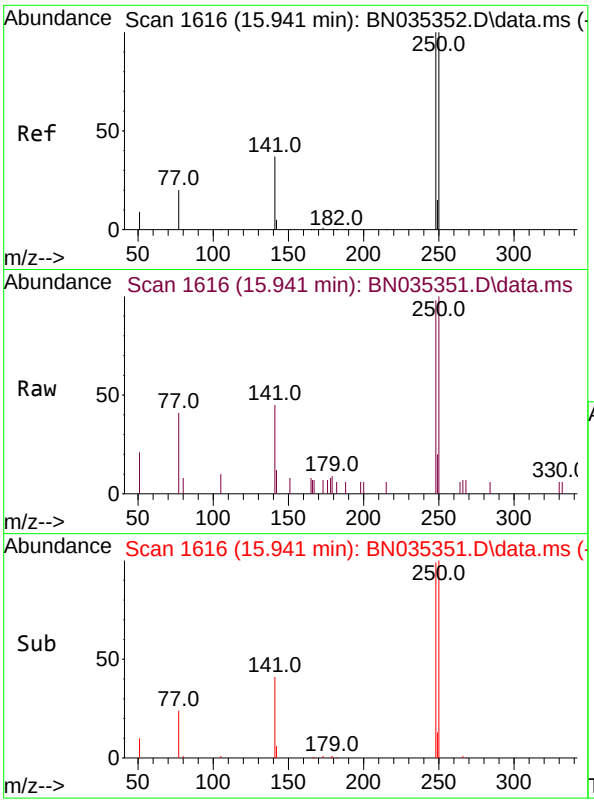


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

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

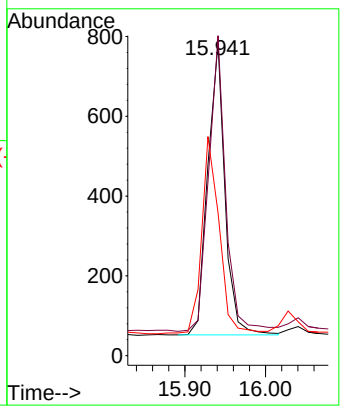




#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:248 Resp: 108

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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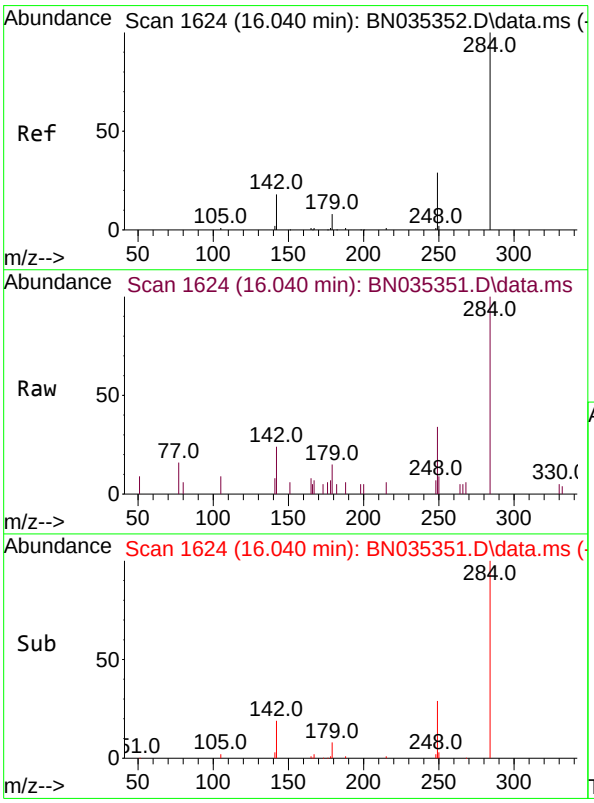
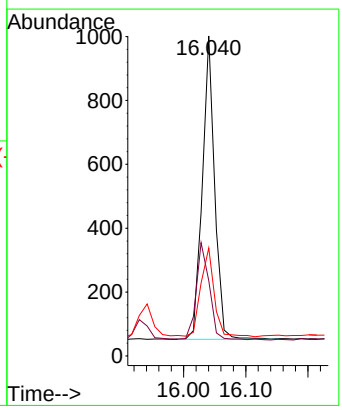
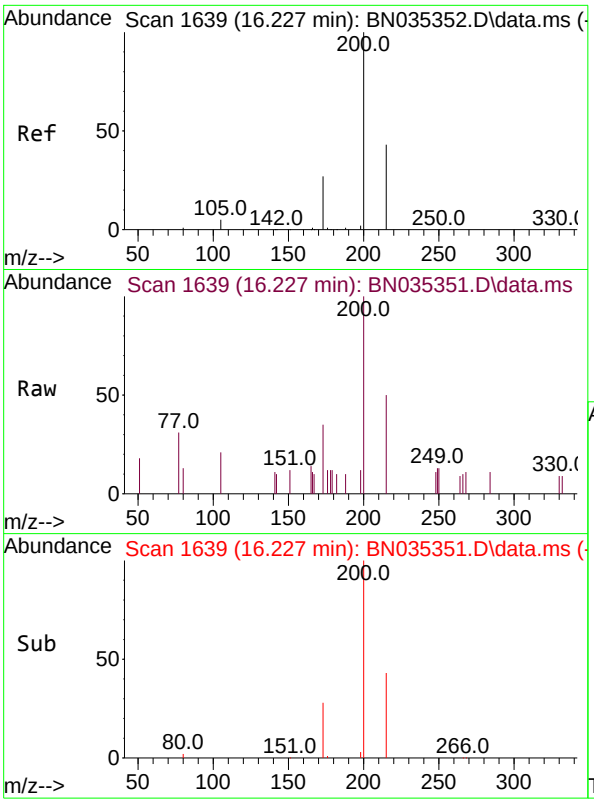


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

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

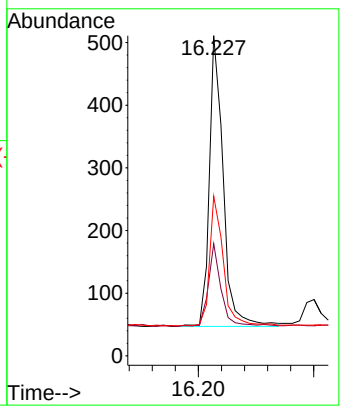




#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:200 Resp: 77(

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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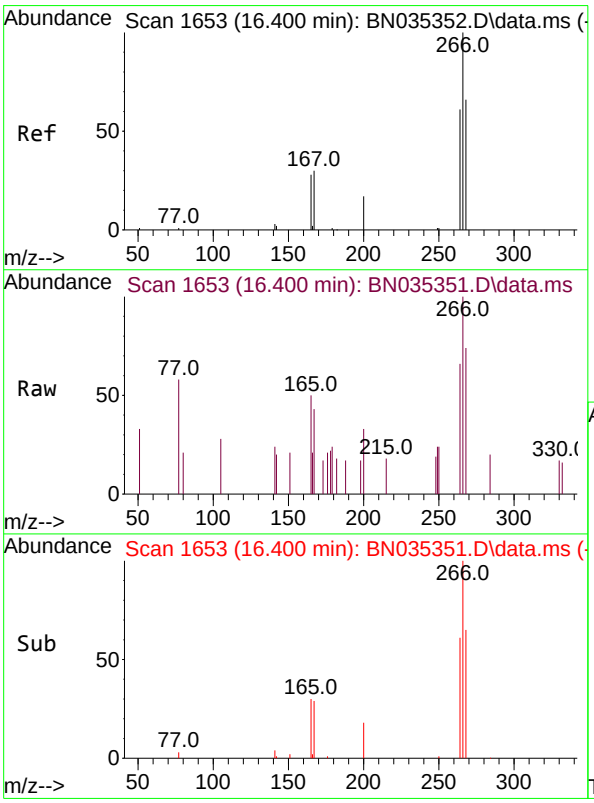
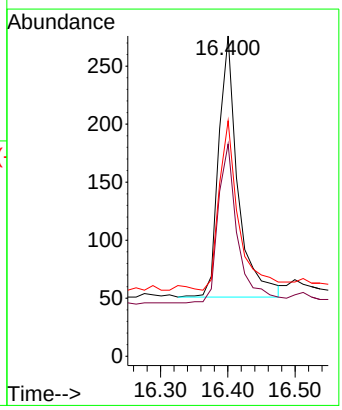
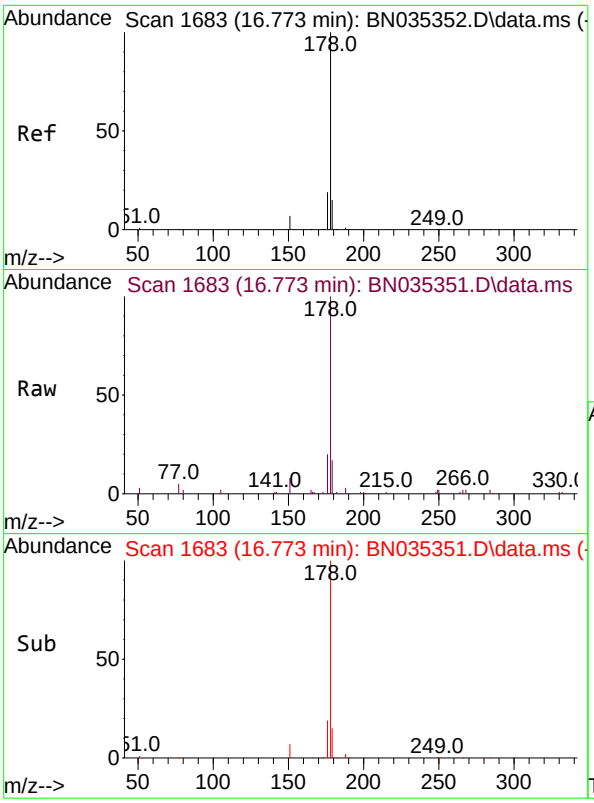


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

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

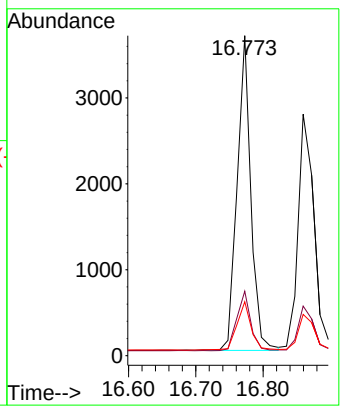




#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 518

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



Instrument :
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ClientSampleId :
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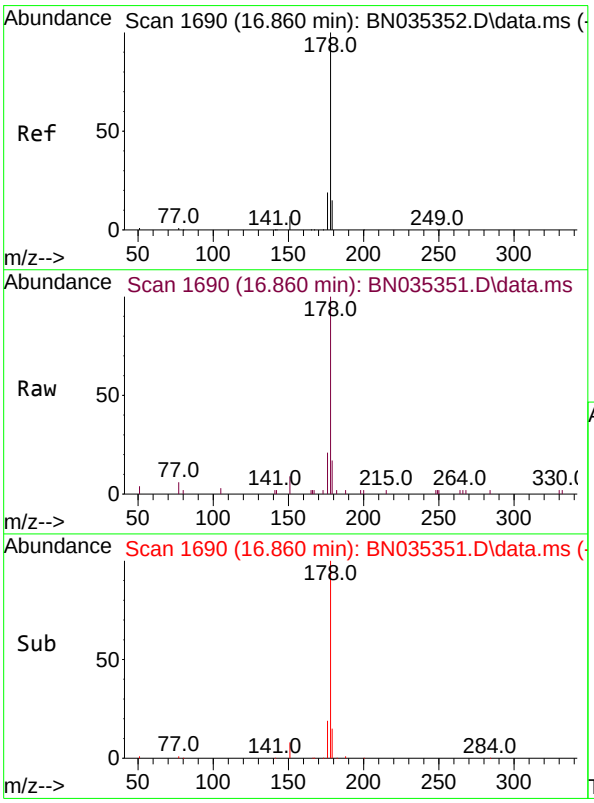
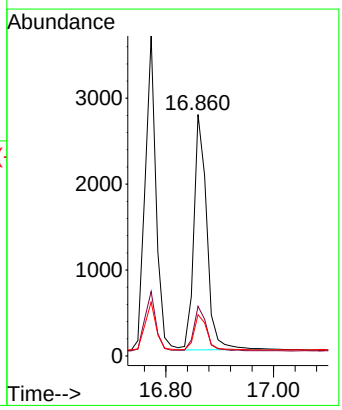
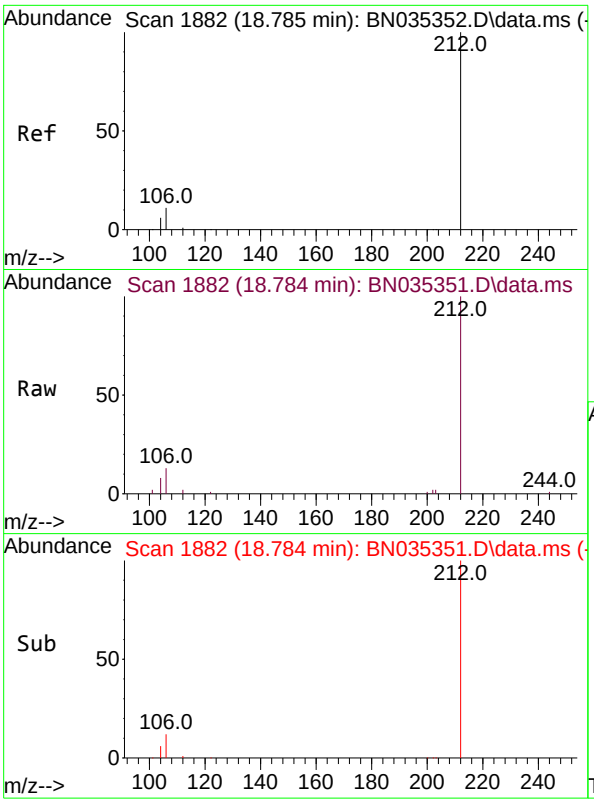


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

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

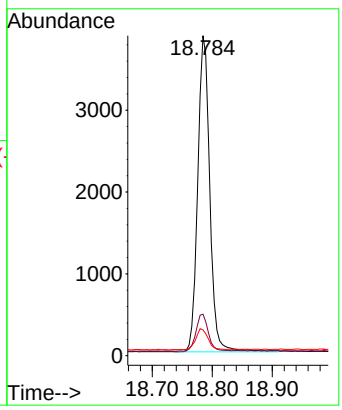




#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:212 Resp: 537

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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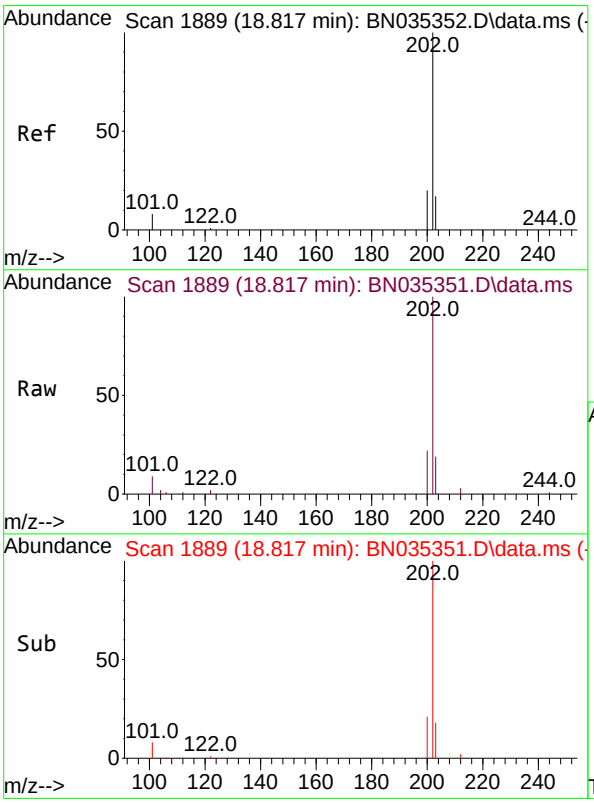
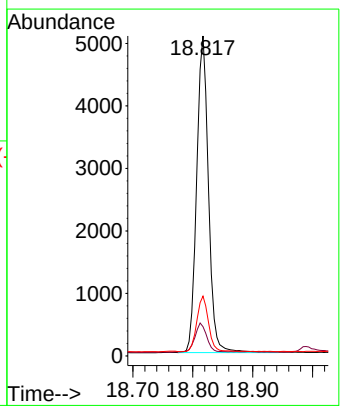
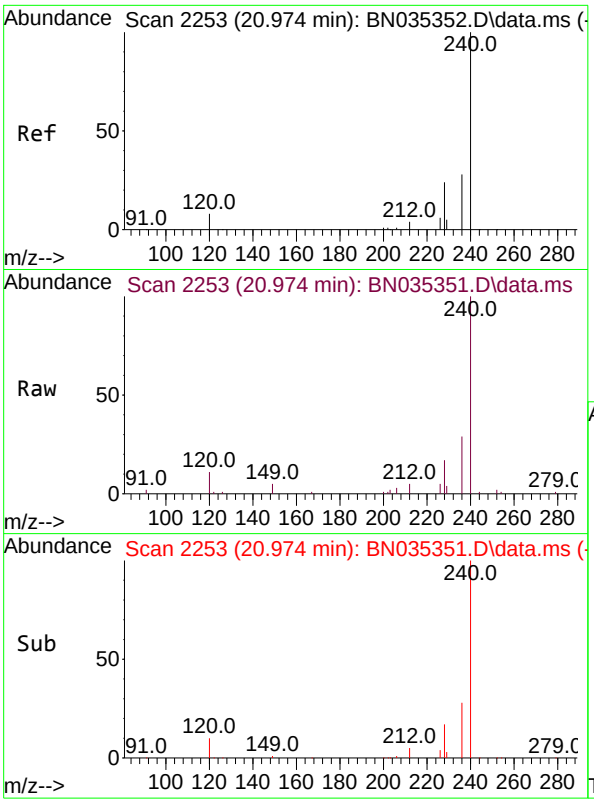


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

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

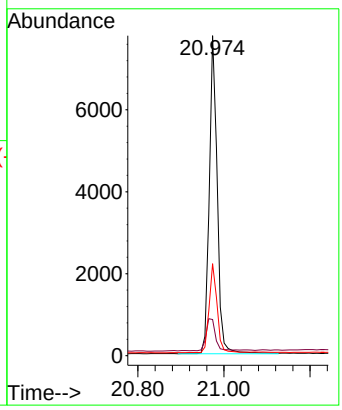




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:240 Resp: 996

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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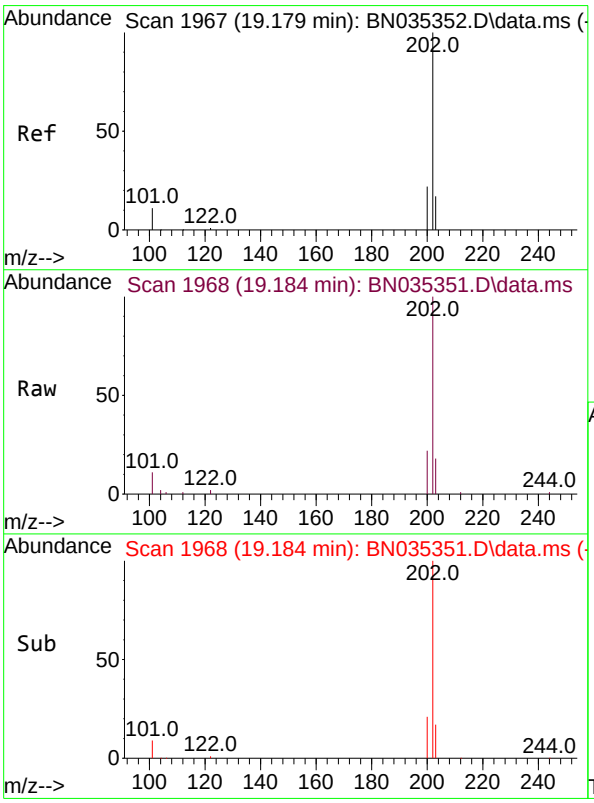
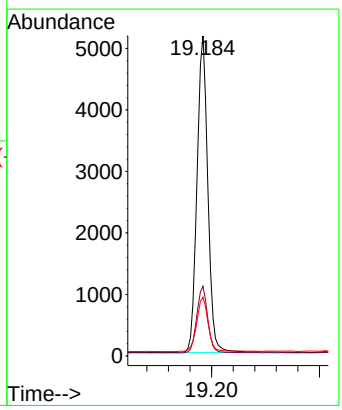
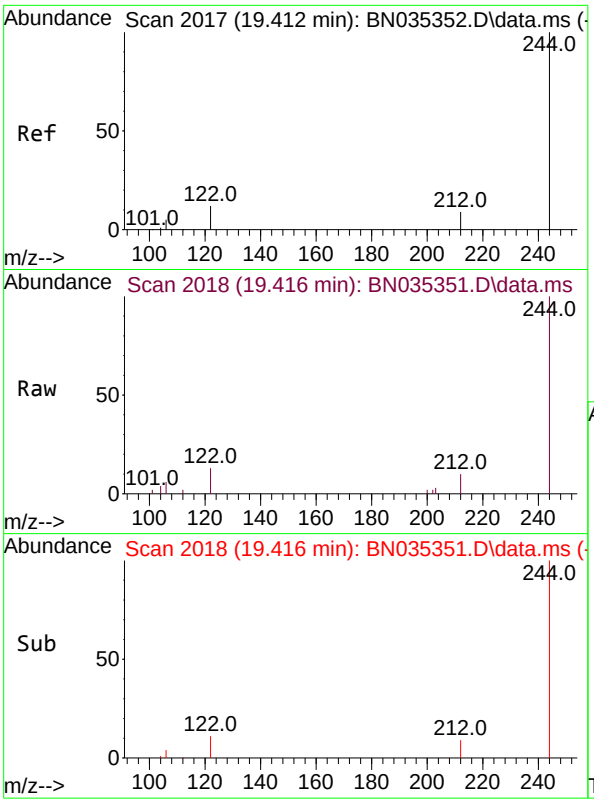


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

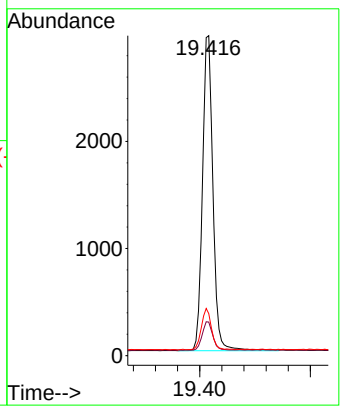




#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:244 Resp: 387

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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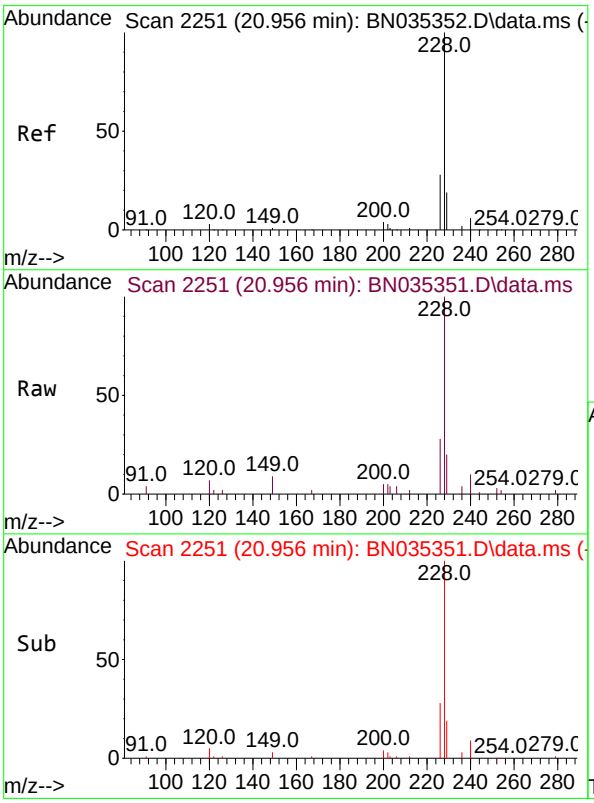
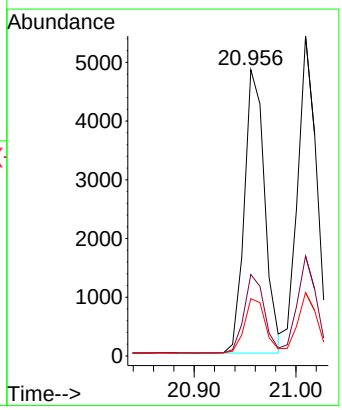
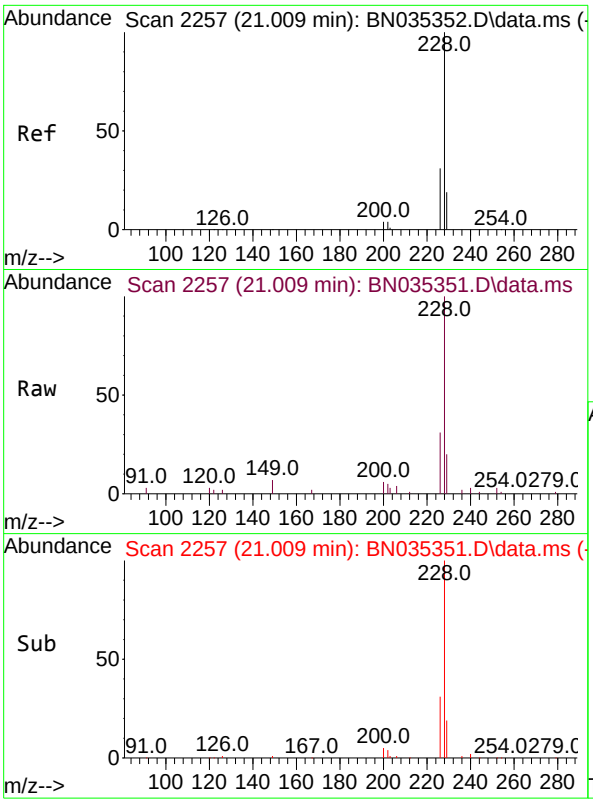


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

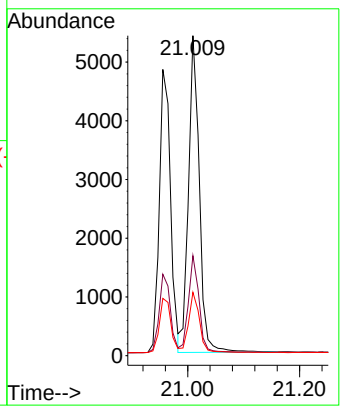




#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 723

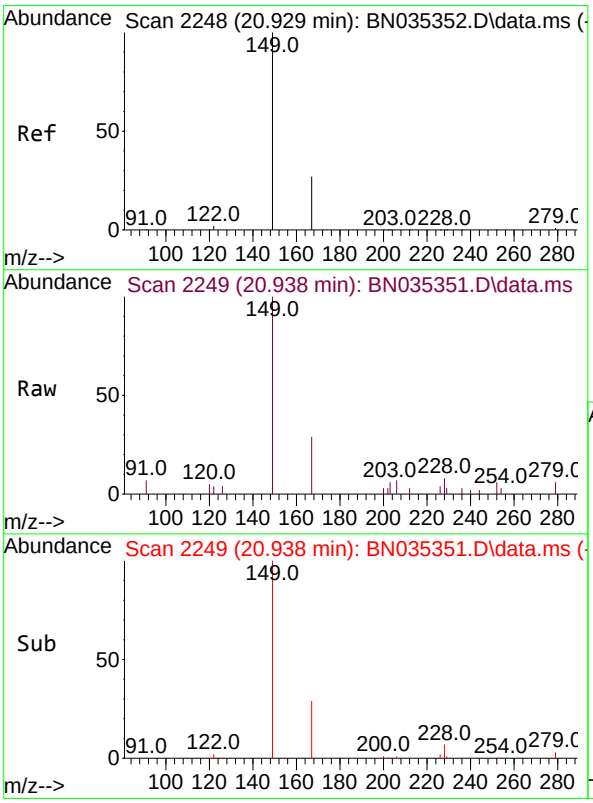
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

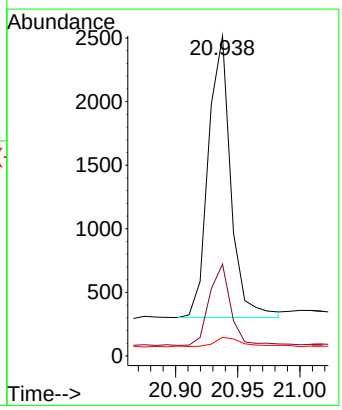
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

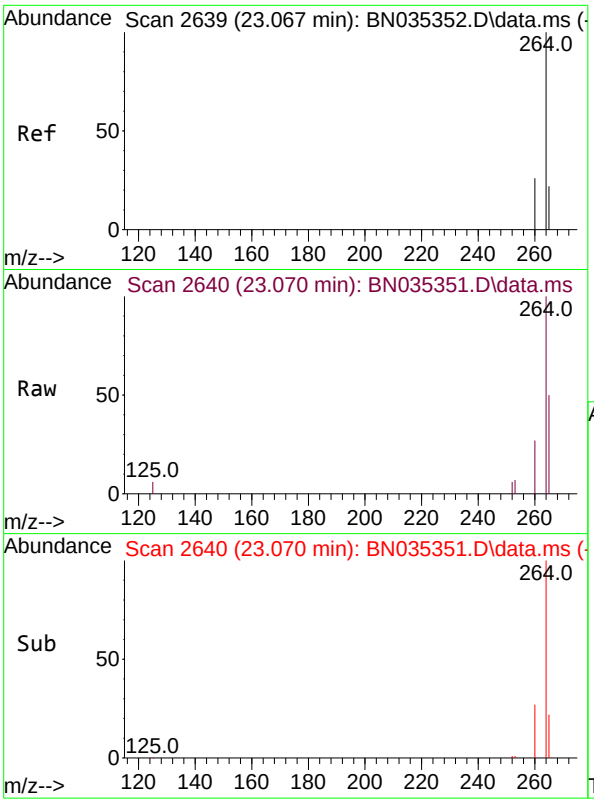


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

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

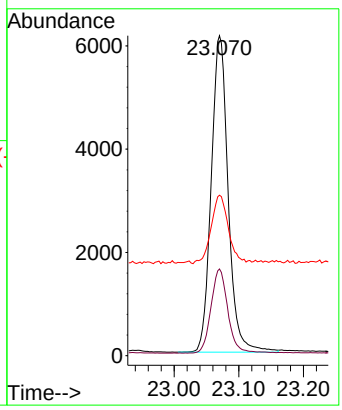




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:264 Resp: 1115

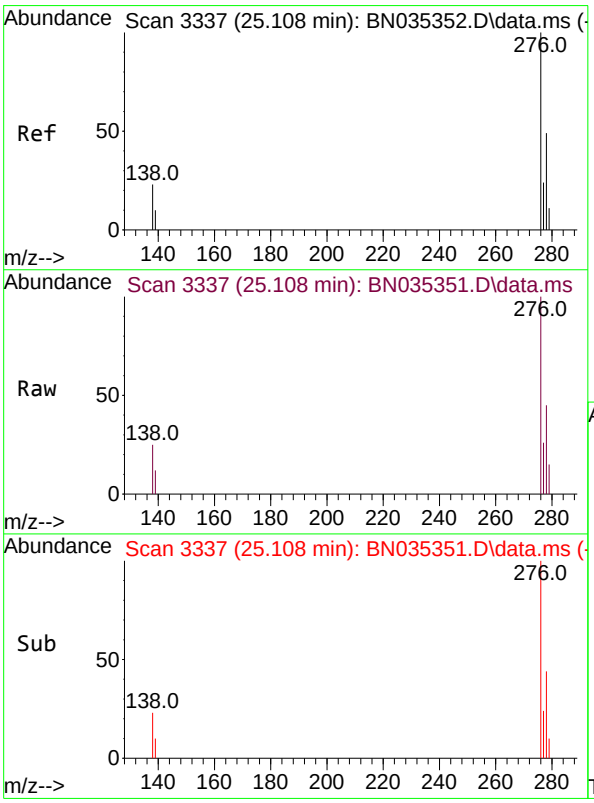
Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

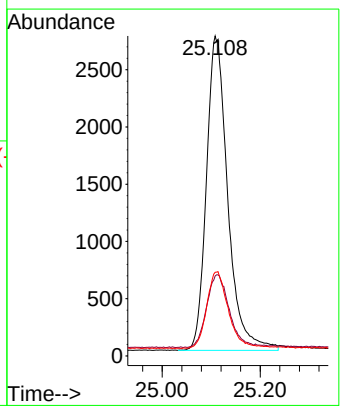
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

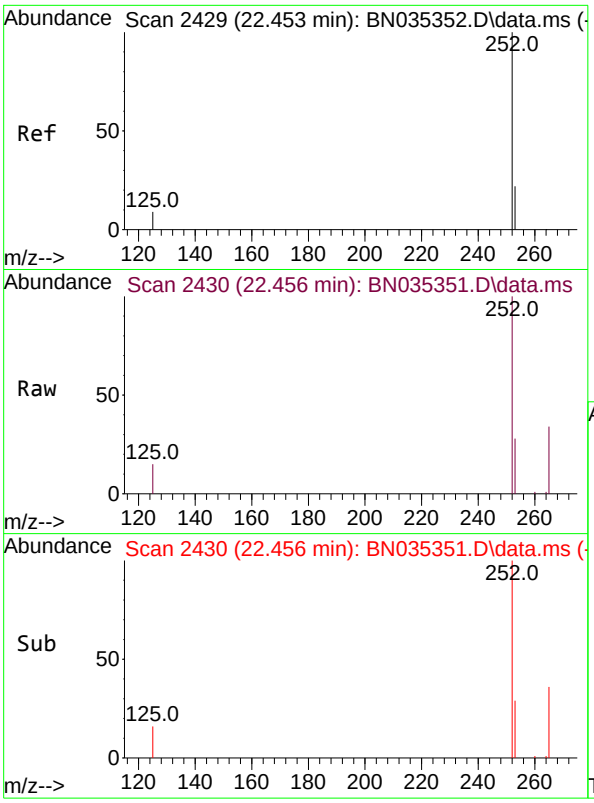


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

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

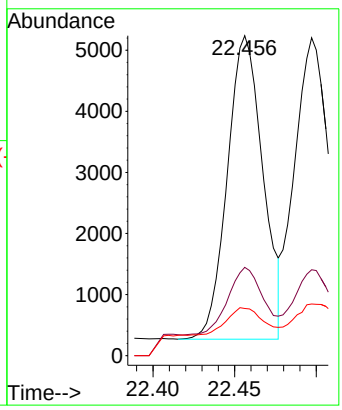




#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 752

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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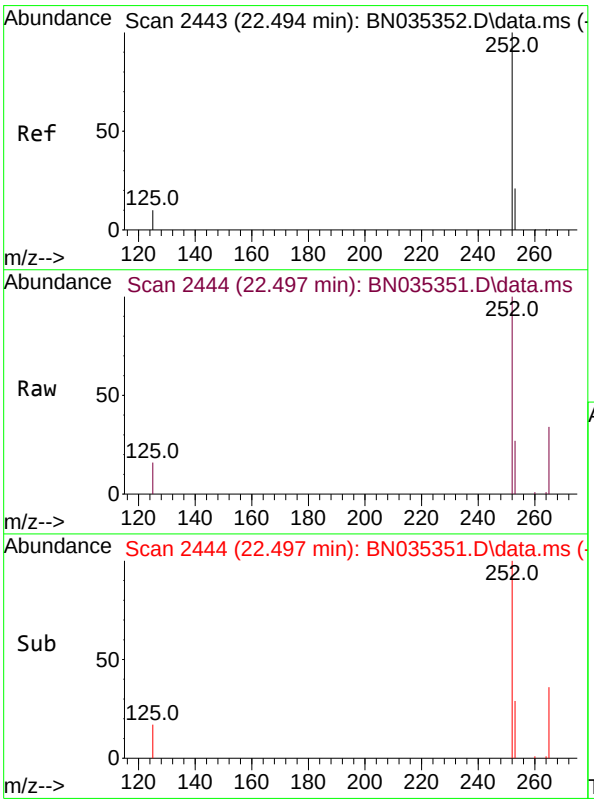
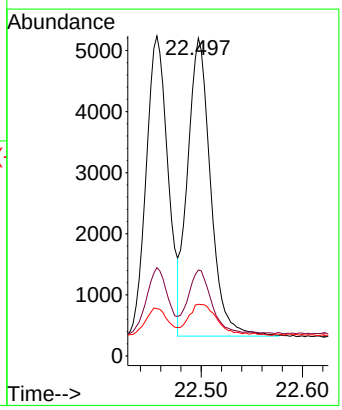
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

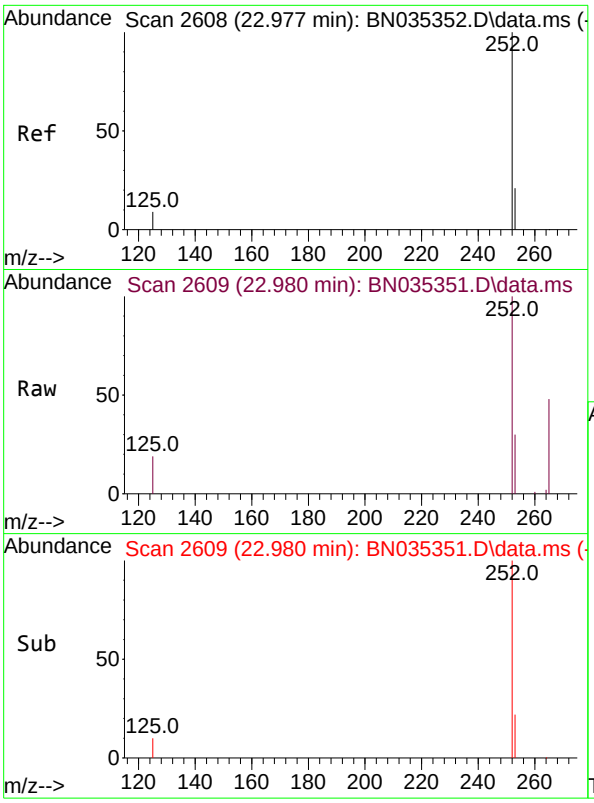


#38
Benzo(k)fluoranthene
Concen: 0.204 ng m
RT: 22.497 min Scan# 2444
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7675

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

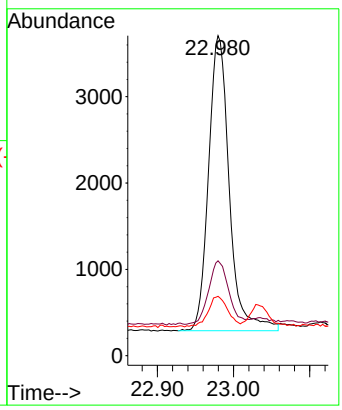




#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 645

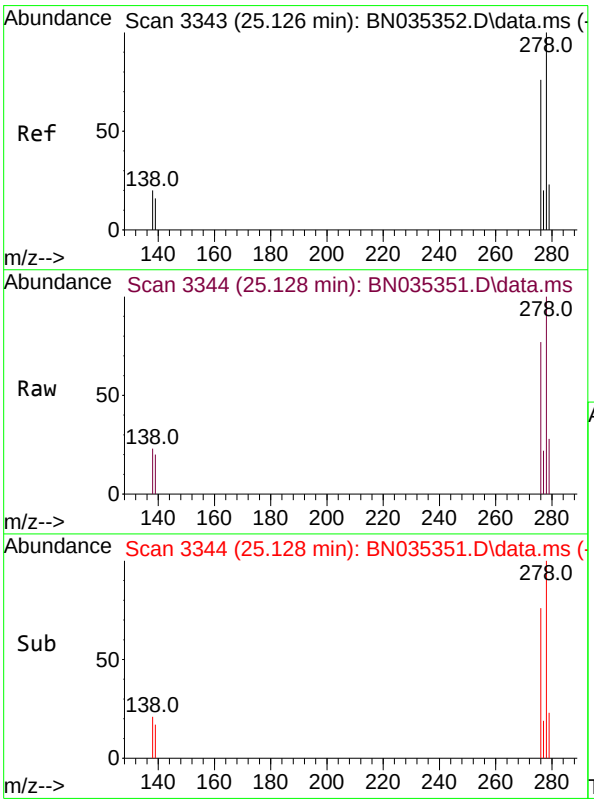
Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

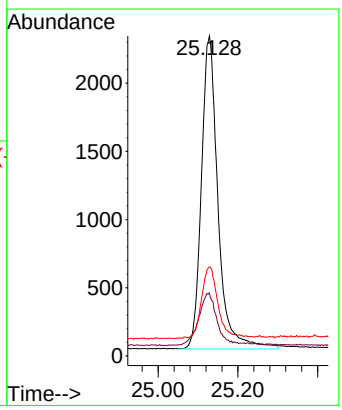
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

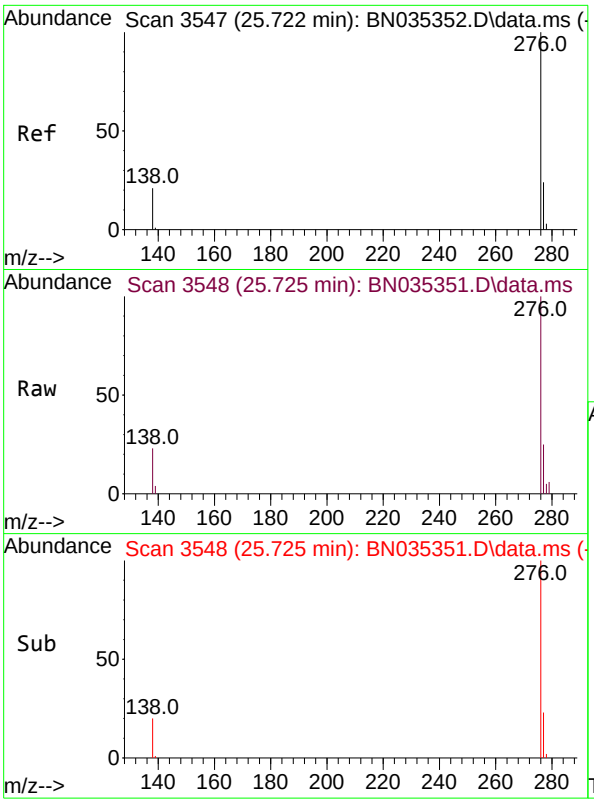


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

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

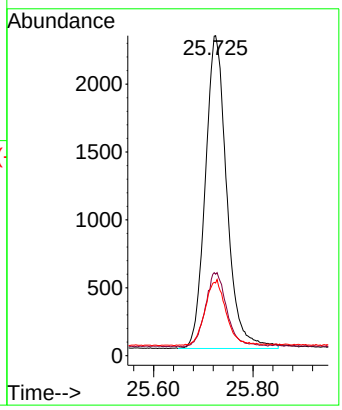




#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 690

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



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Manual Integrations
APPROVED

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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

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

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

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

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

Quantitation Report (QT Reviewed)

ICAL Form

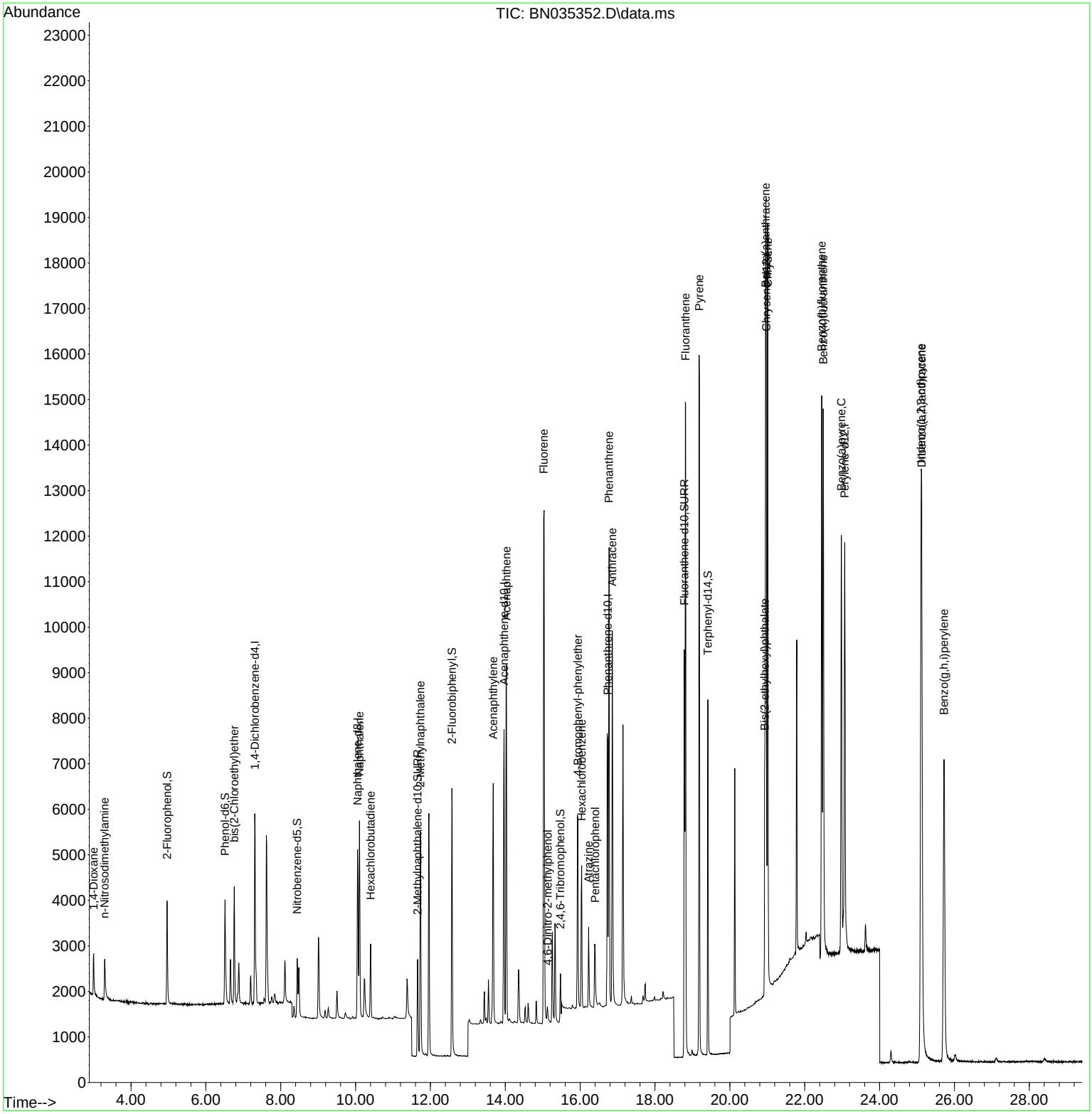
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

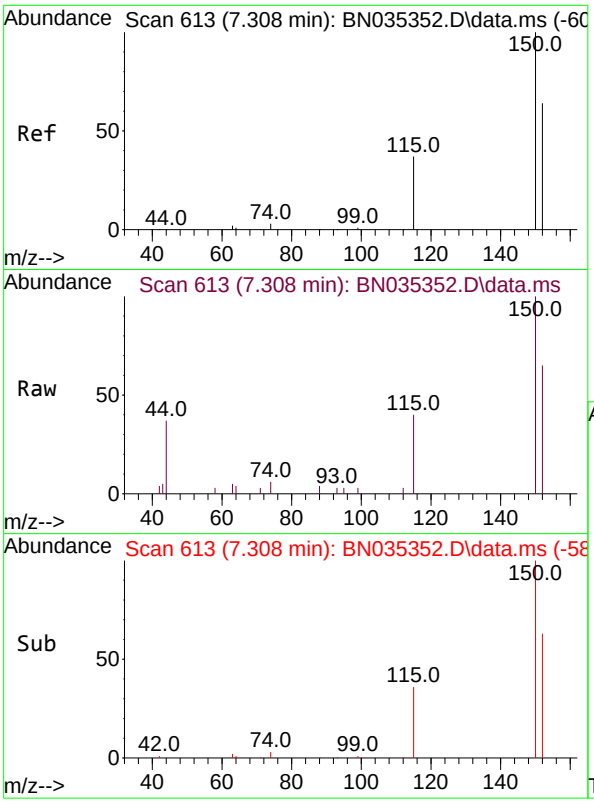
Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations APPROVED

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

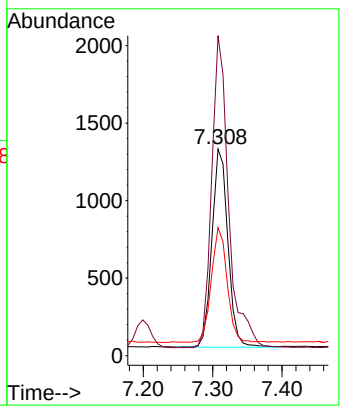




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 204

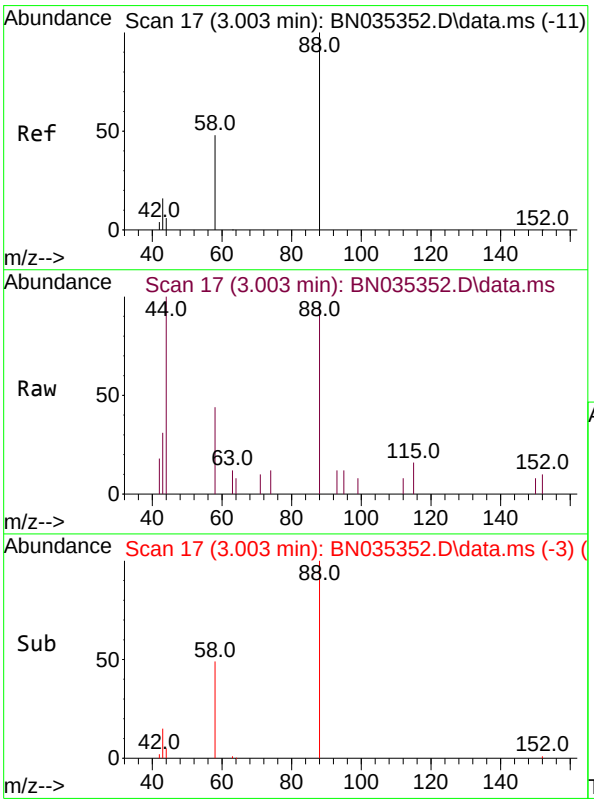
Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

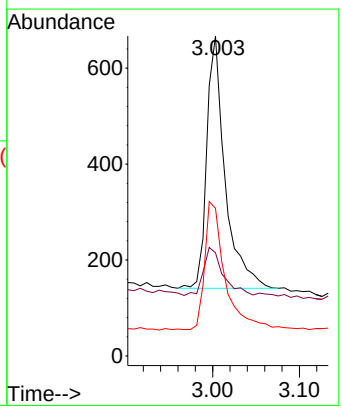
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

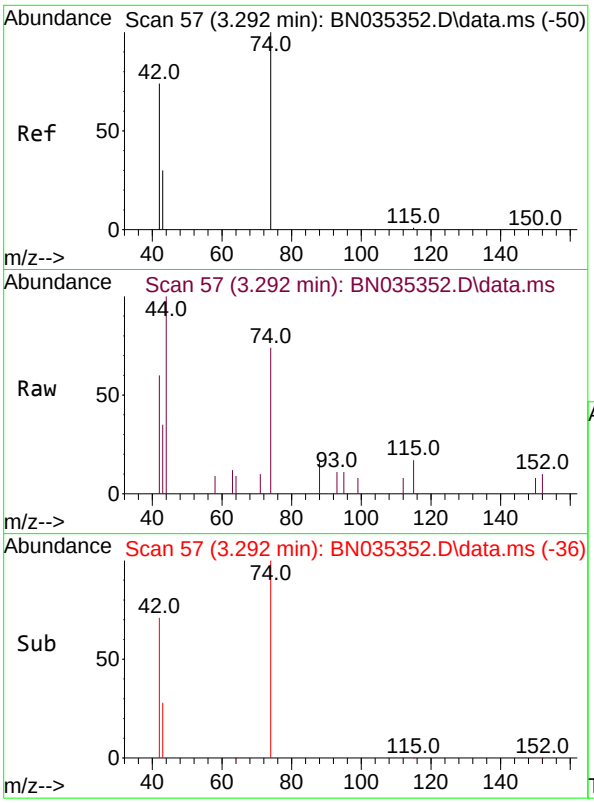


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

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

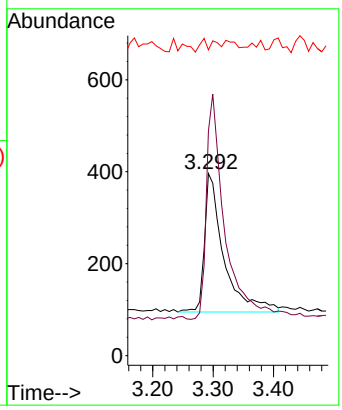




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 42 Resp: 66

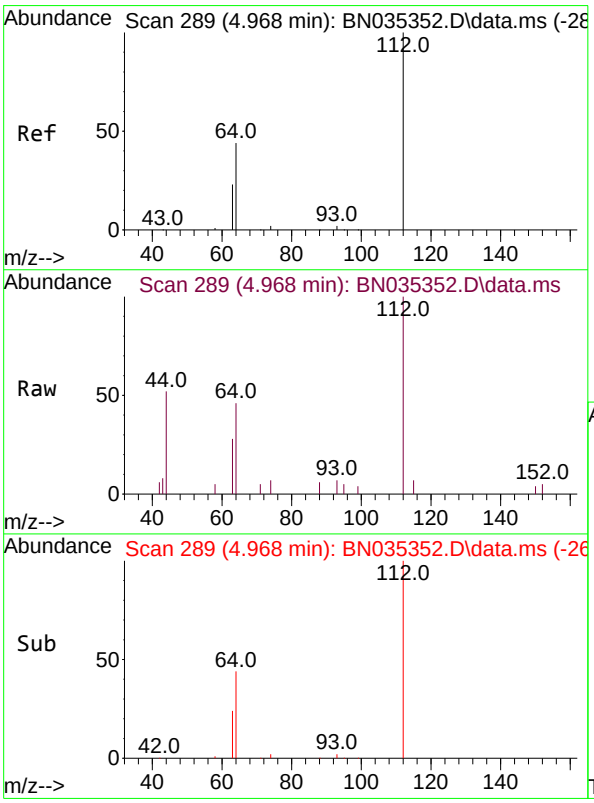
Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

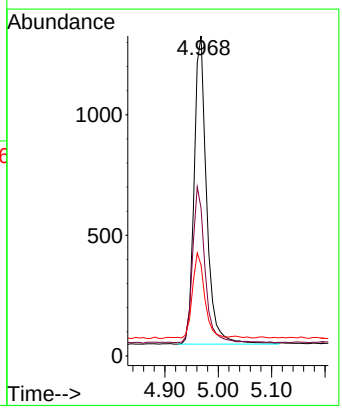
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

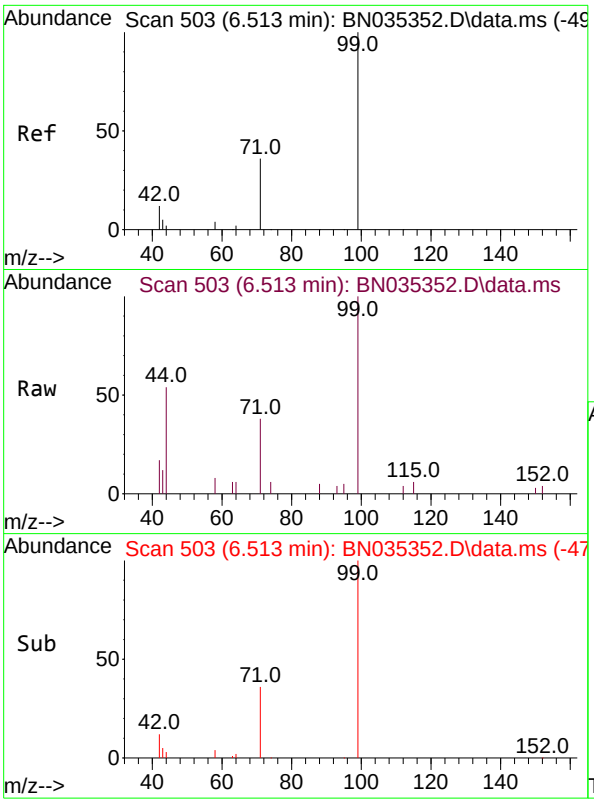


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

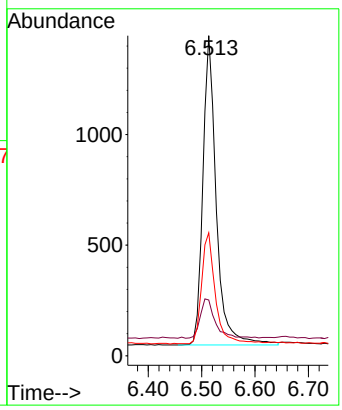




#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

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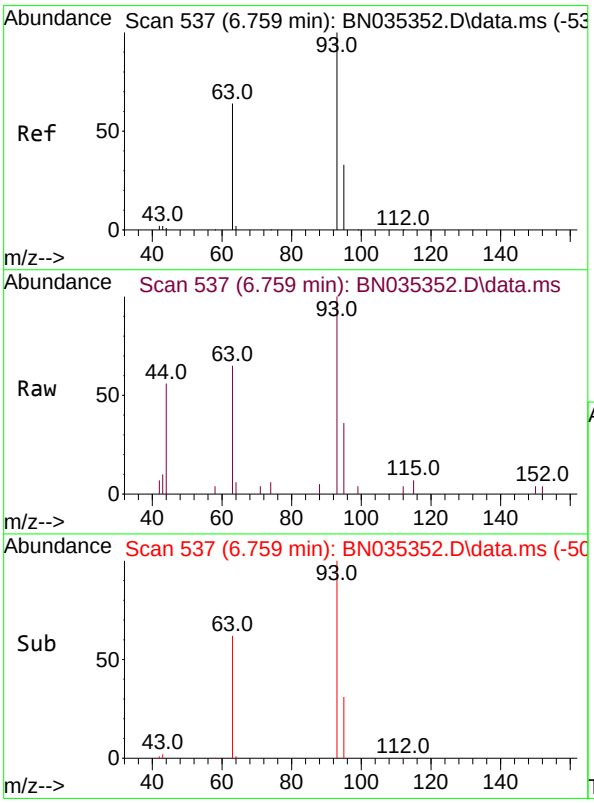
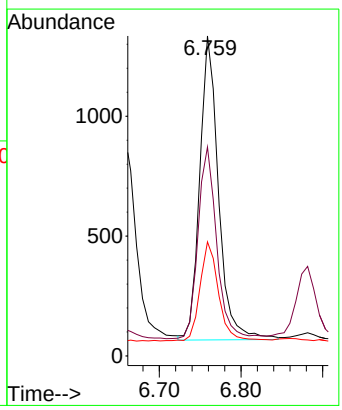
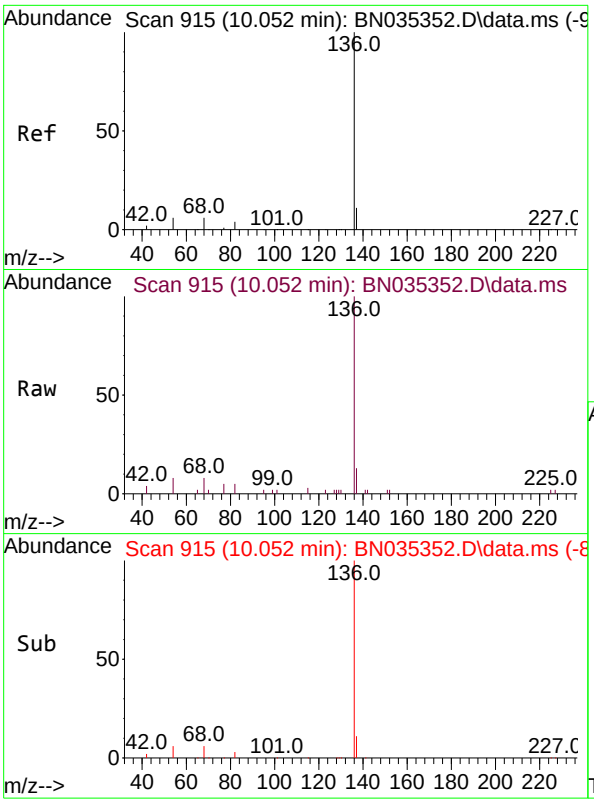


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

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

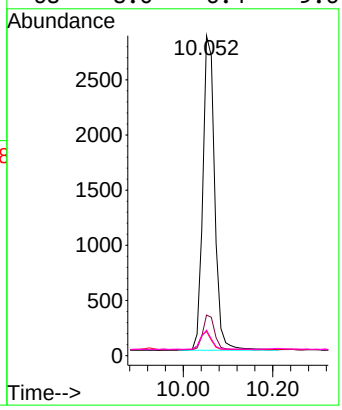




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:136 Resp: 522

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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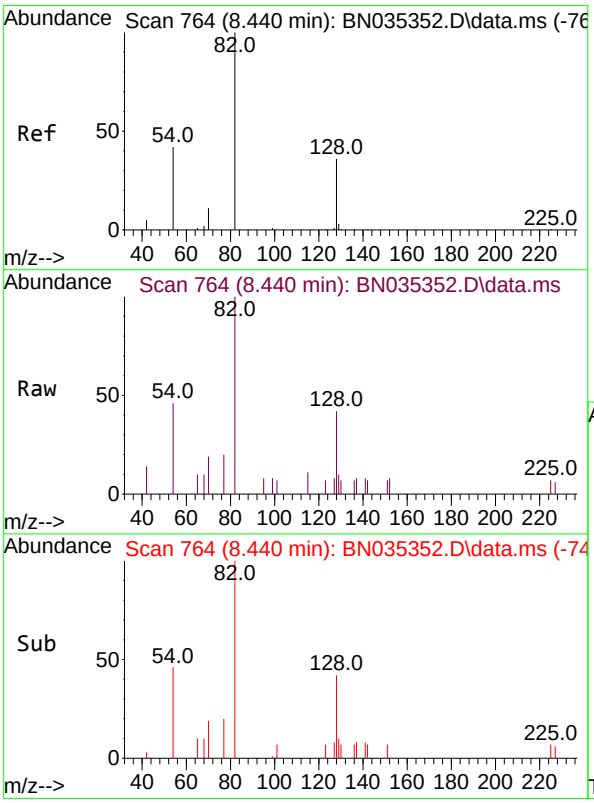
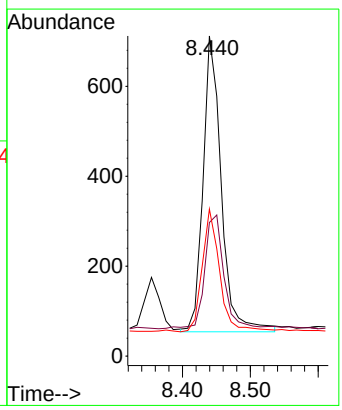
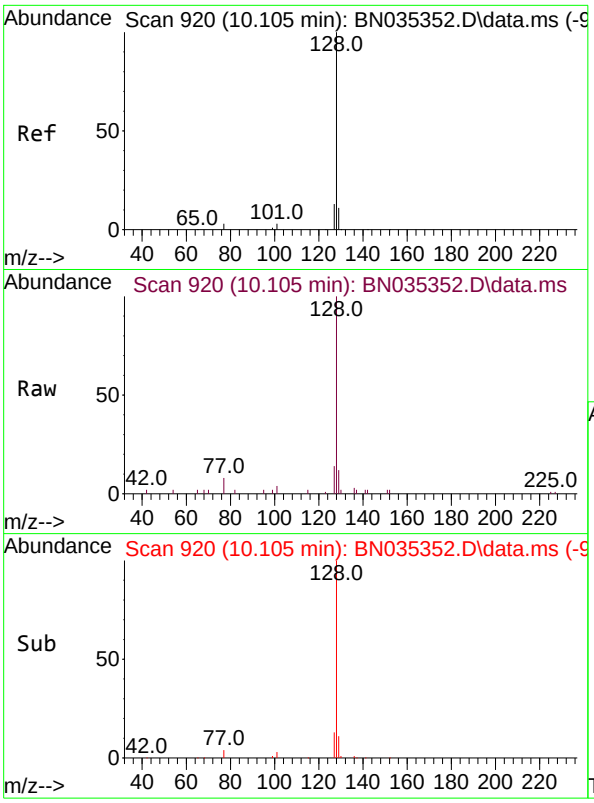


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1228

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





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

Tgt Ion:128 Resp: 547

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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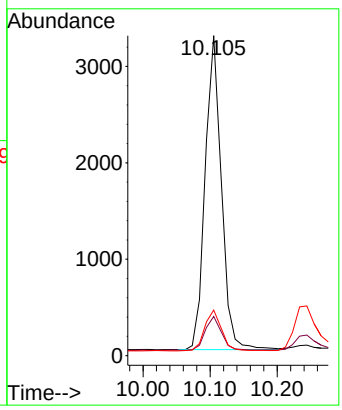
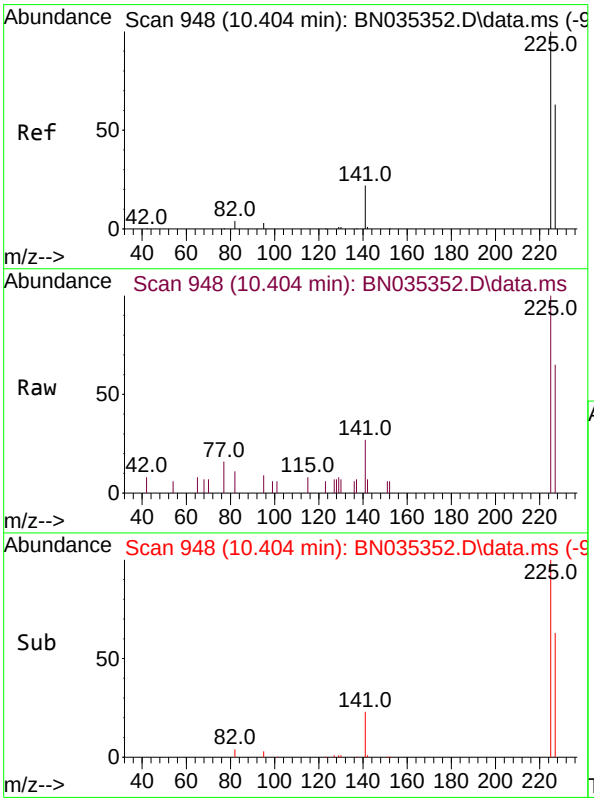
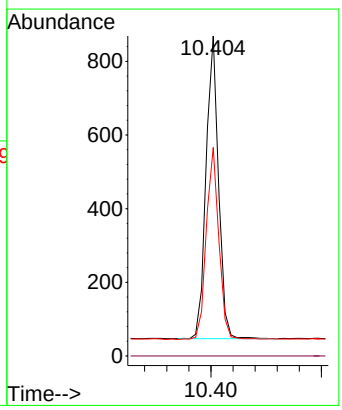


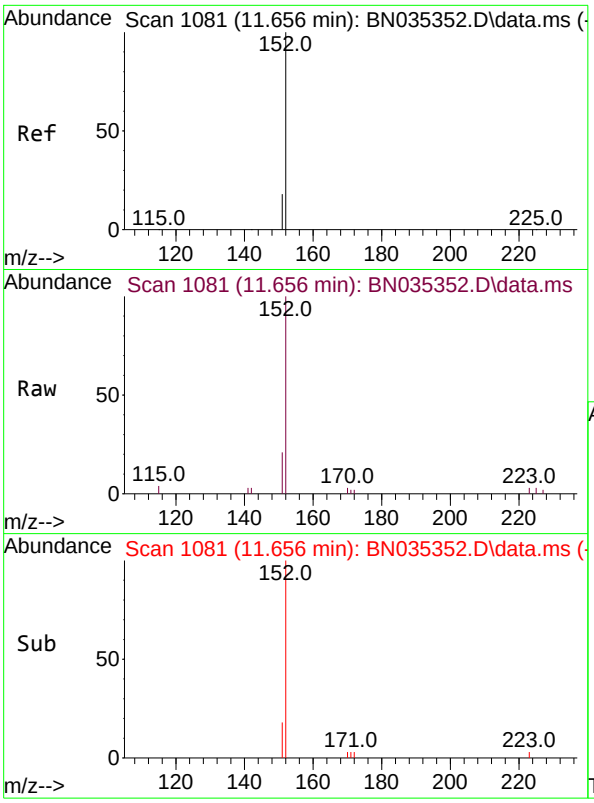


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

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





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

Tgt Ion:152 Resp: 323

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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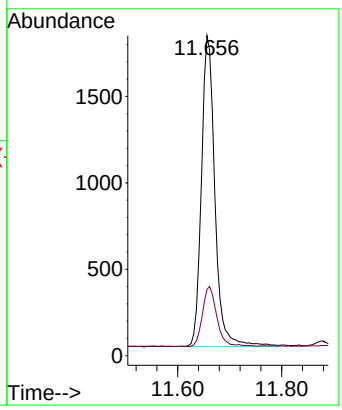
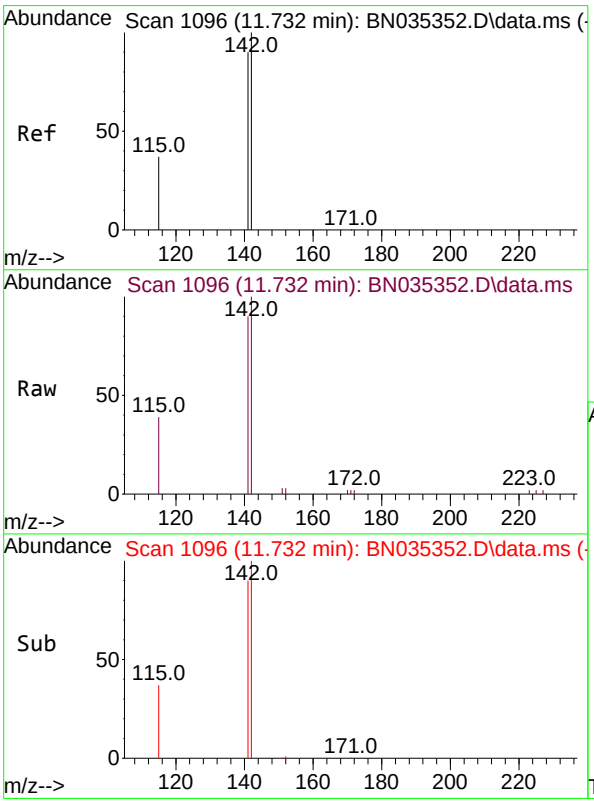
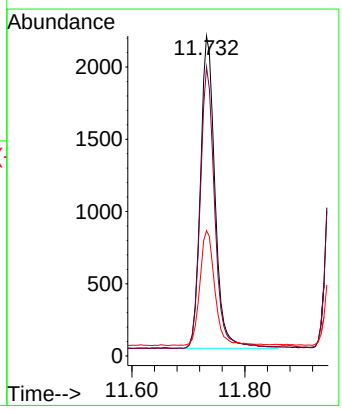


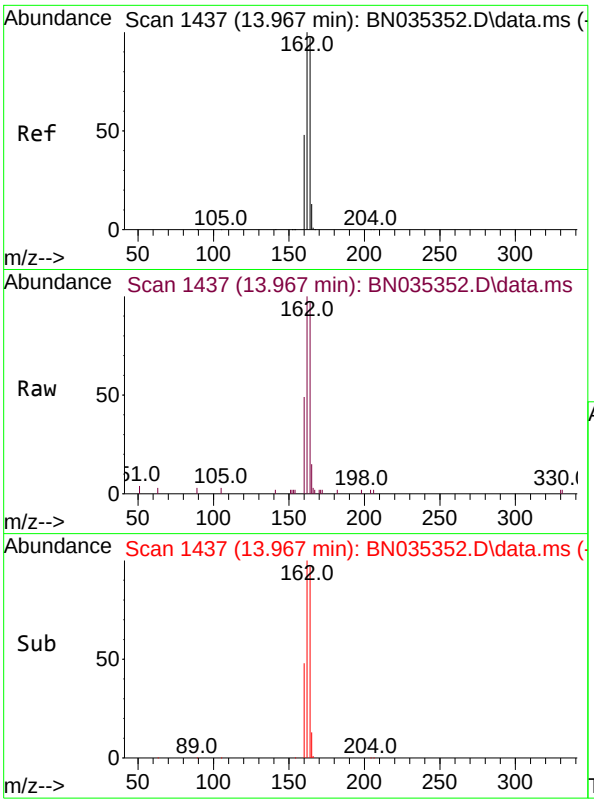


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

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

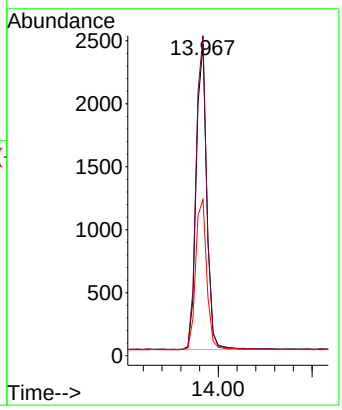




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:164 Resp: 3799

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



Instrument :
BNA_N
ClientSampleId :
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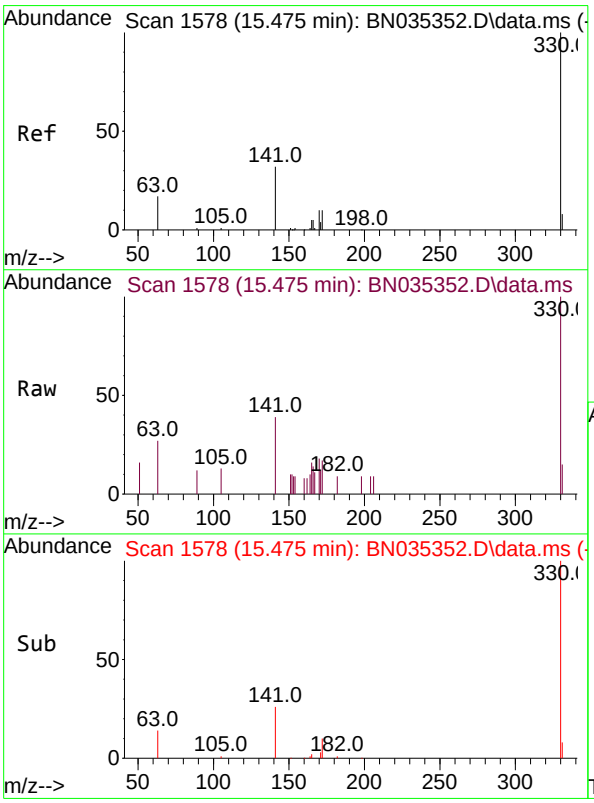
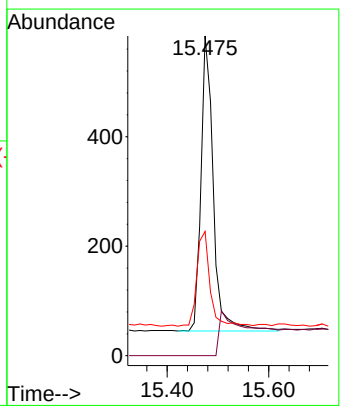
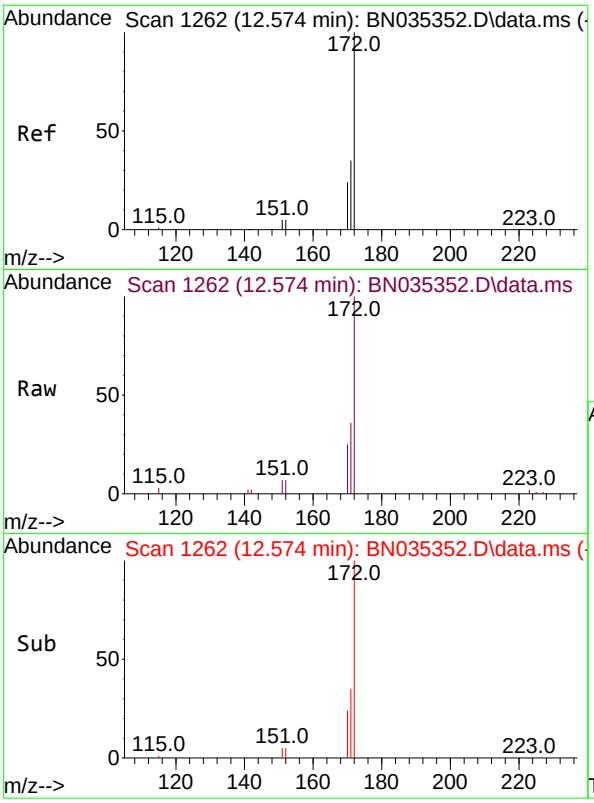


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

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

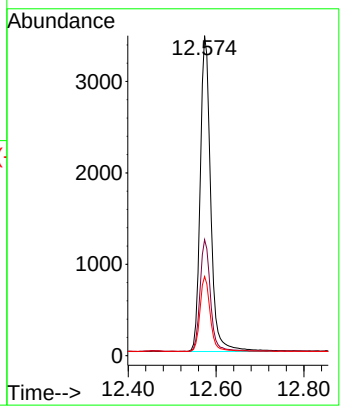




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:172 Resp: 573

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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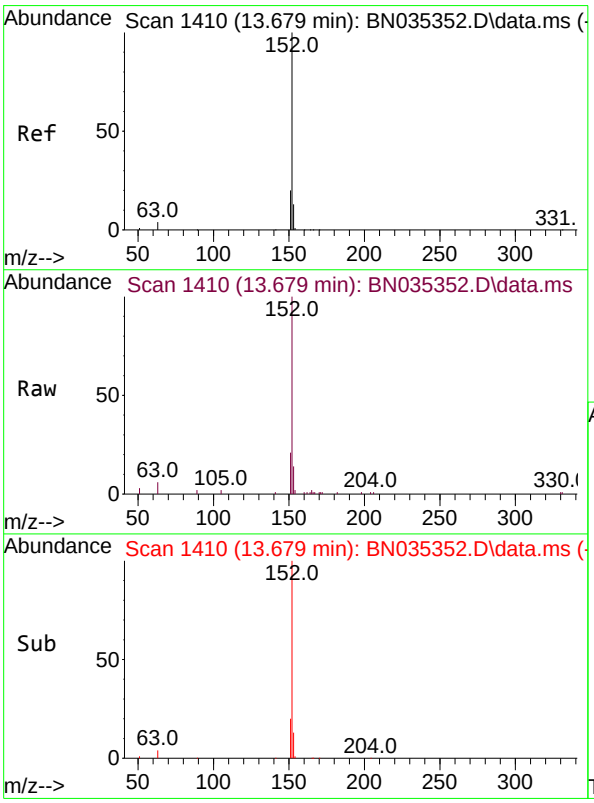
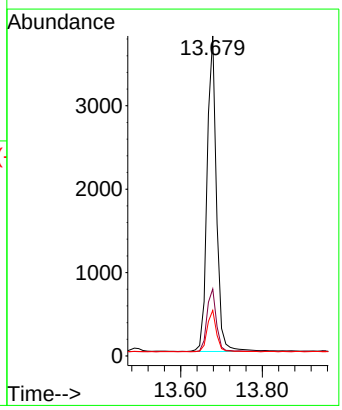
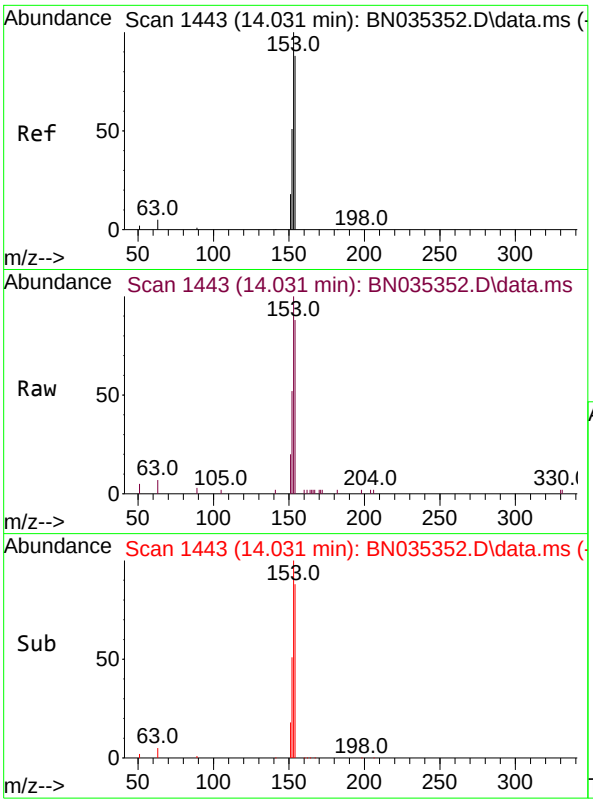


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

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

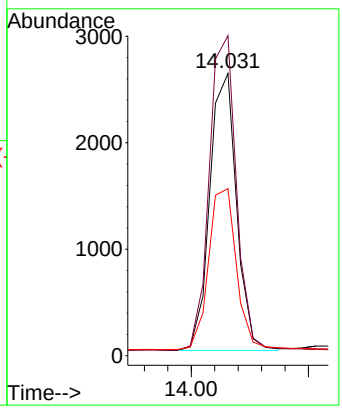




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:154 Resp: 412

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



Instrument :
BNA_N
ClientSampleId :
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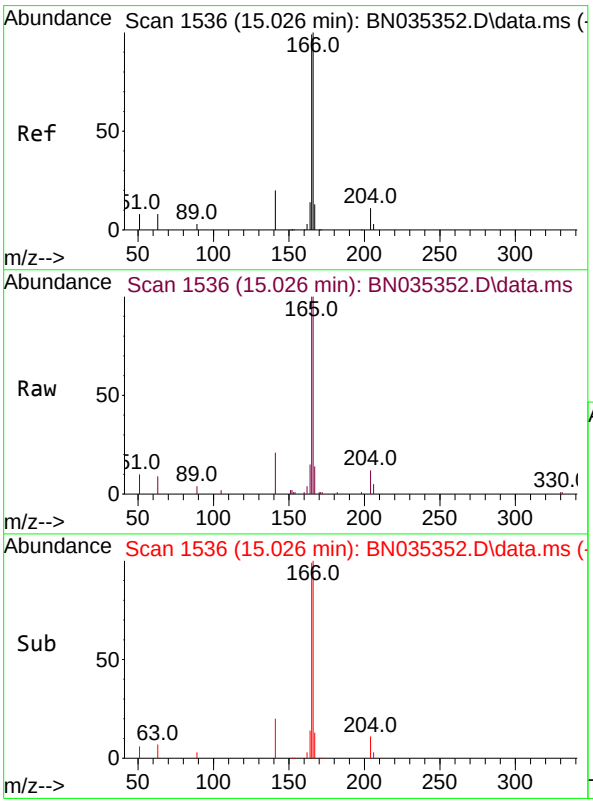
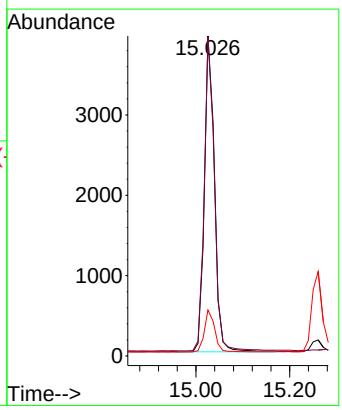
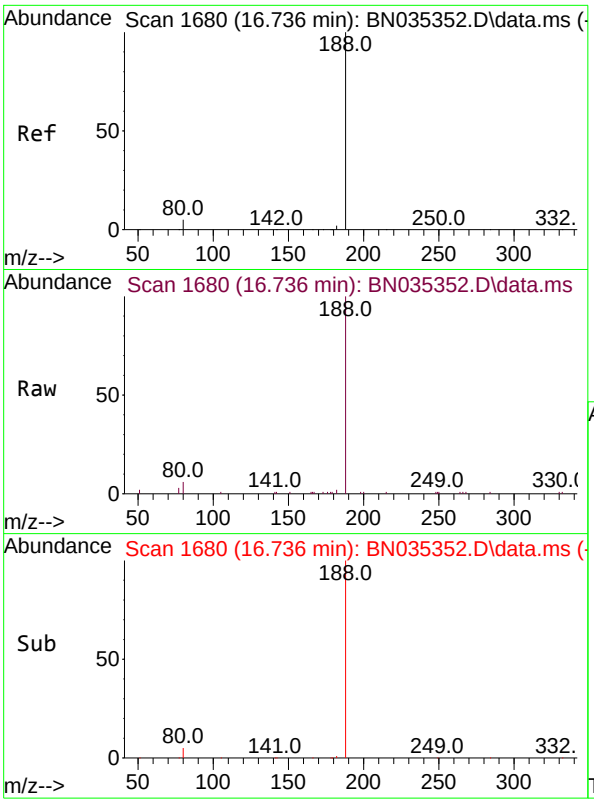


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

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

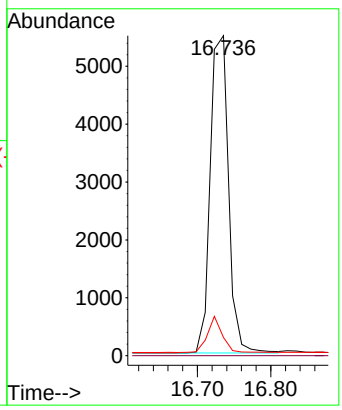




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:188 Resp: 949(

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



Instrument :
BNA_N
ClientSampleId :
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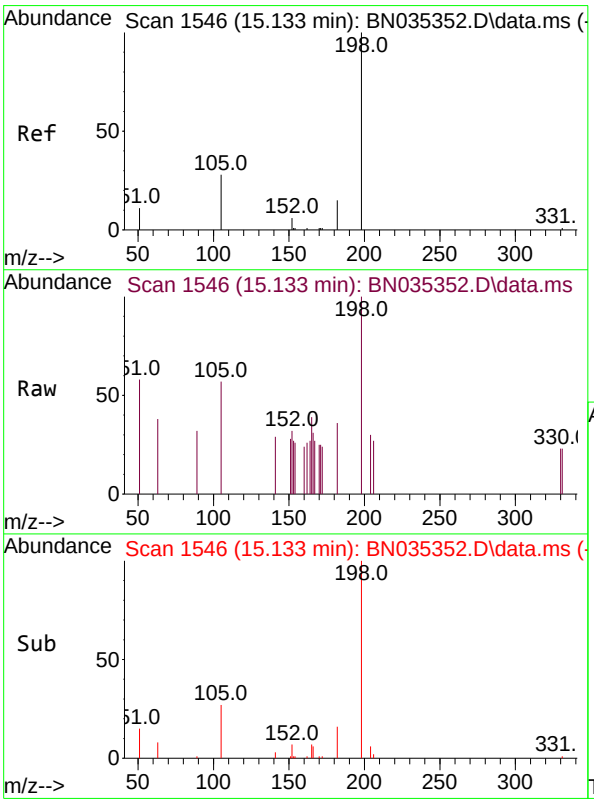
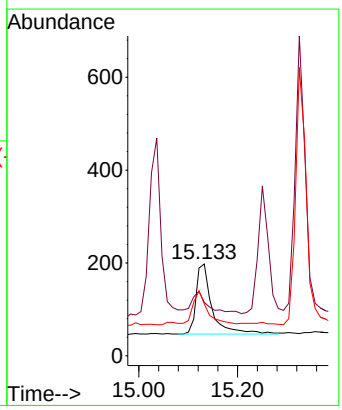
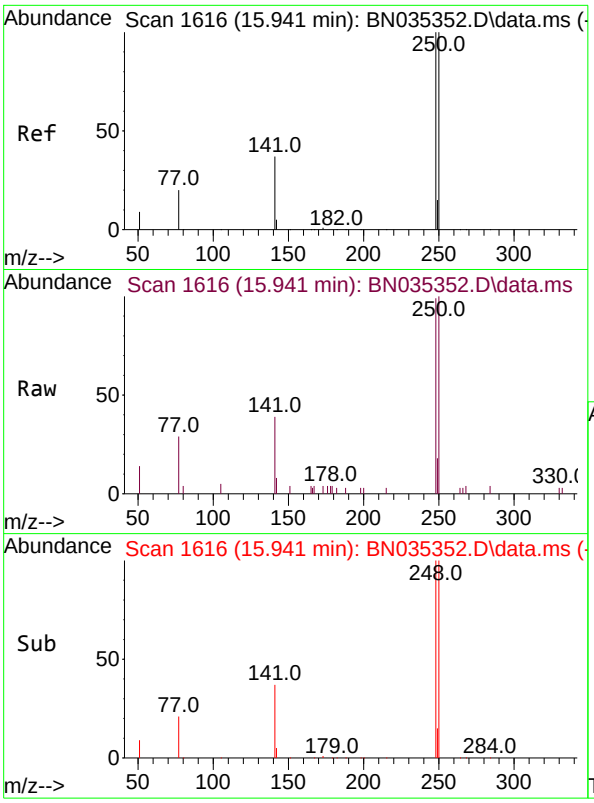


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

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





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

Tgt Ion:248 Resp: 214(

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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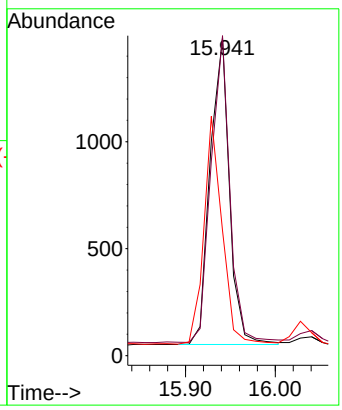
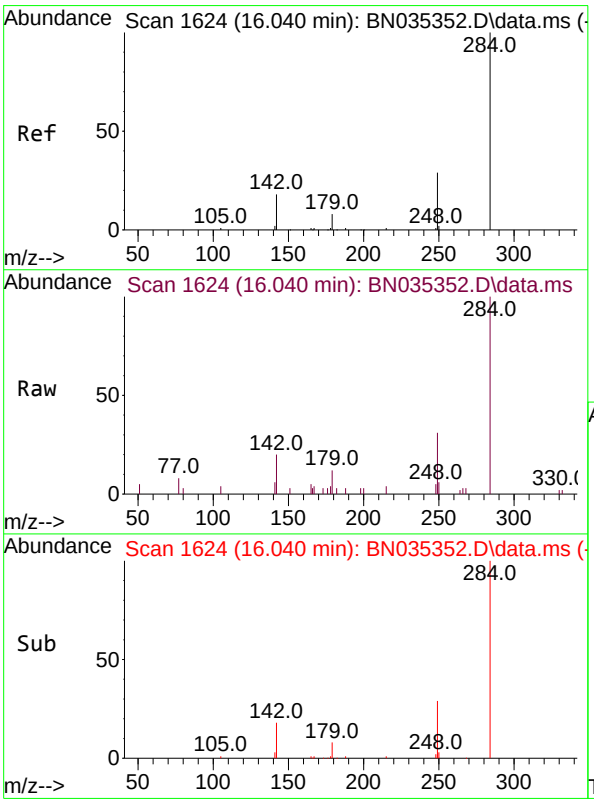
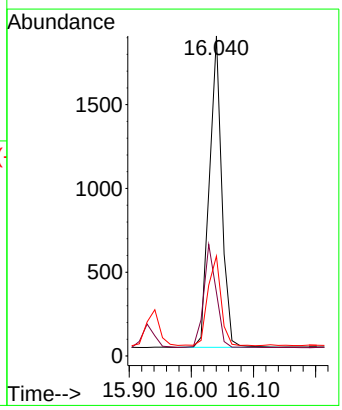


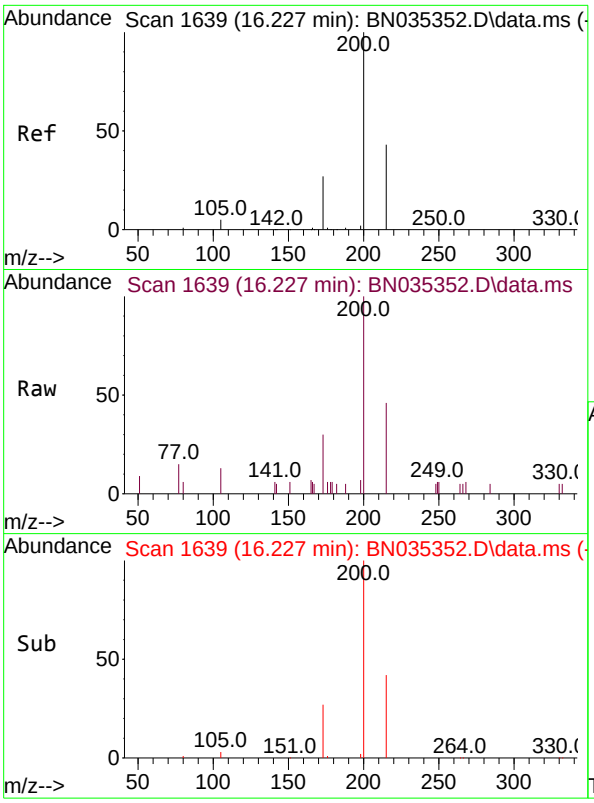


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

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

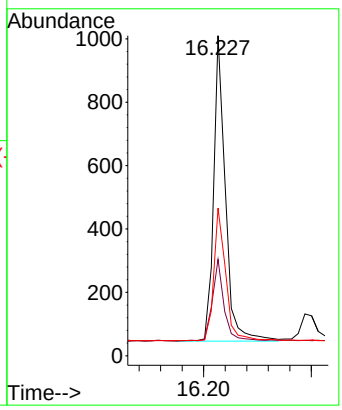




#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:200 Resp: 146

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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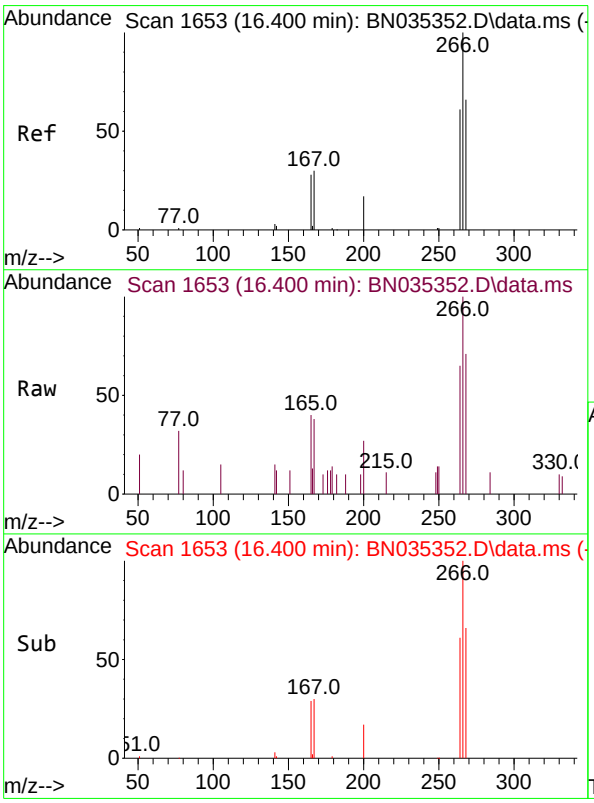
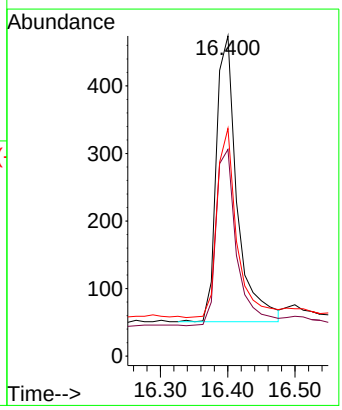
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

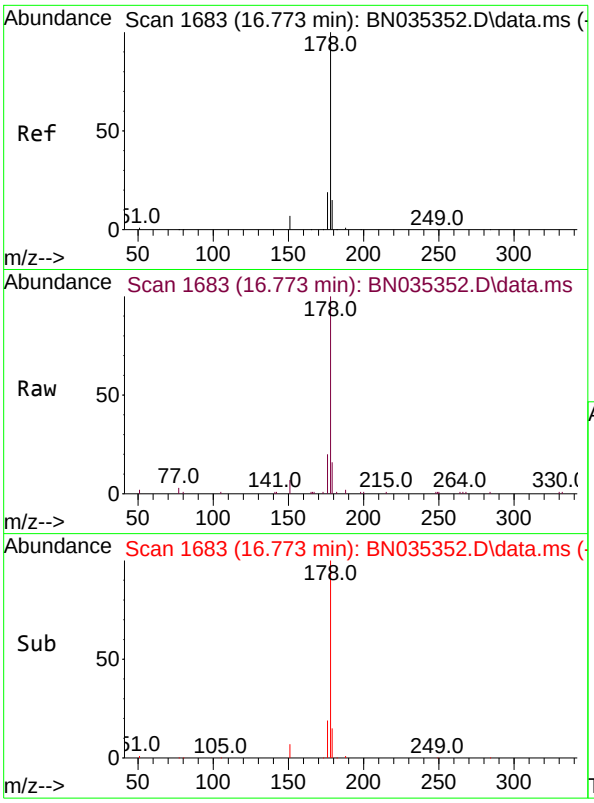


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

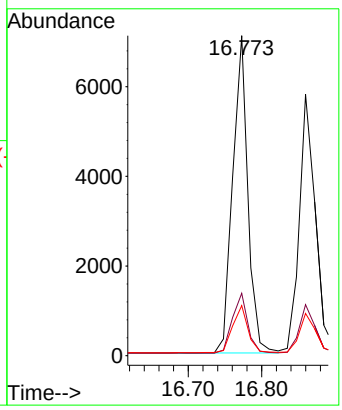




#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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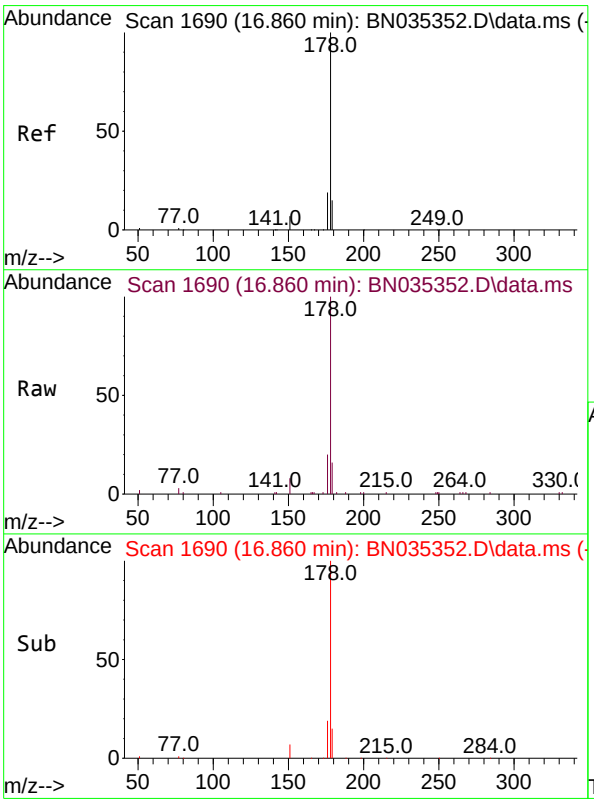
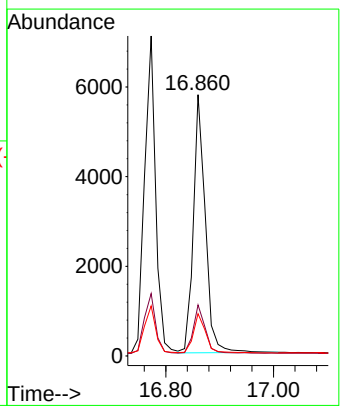
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

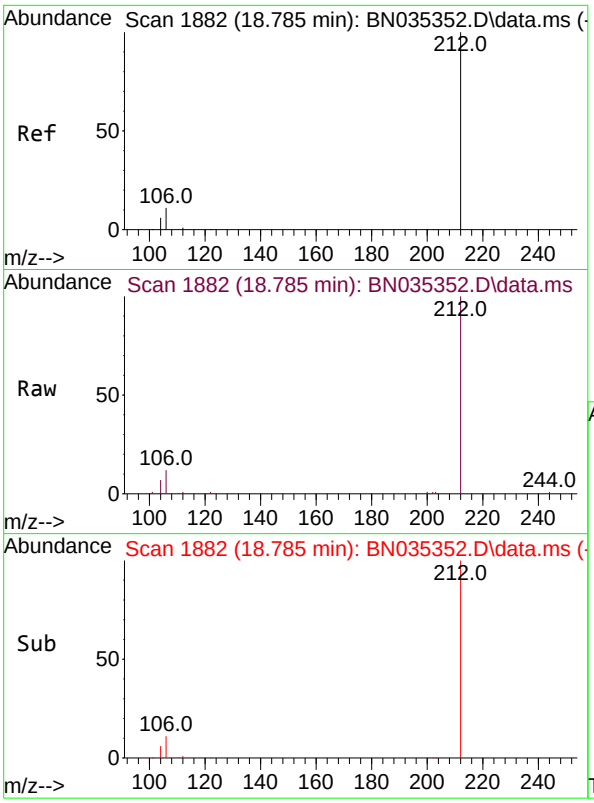


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

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

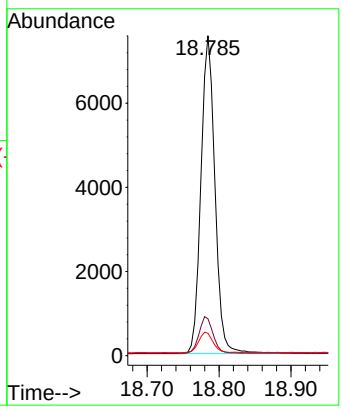




#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:212 Resp: 1022

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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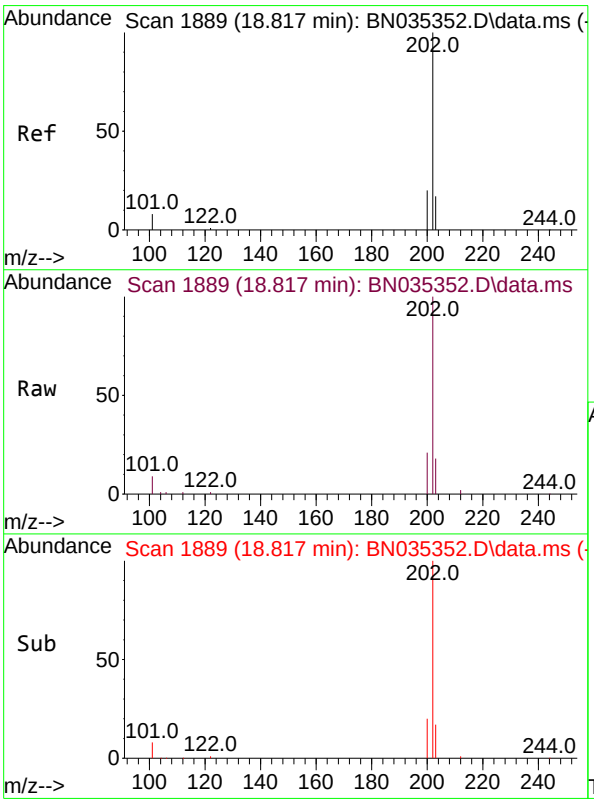
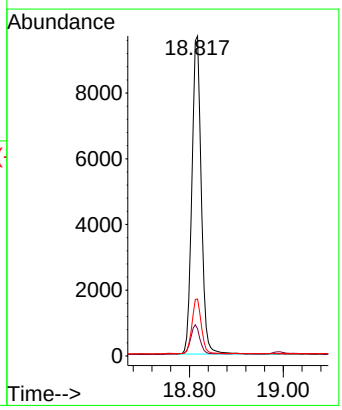
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

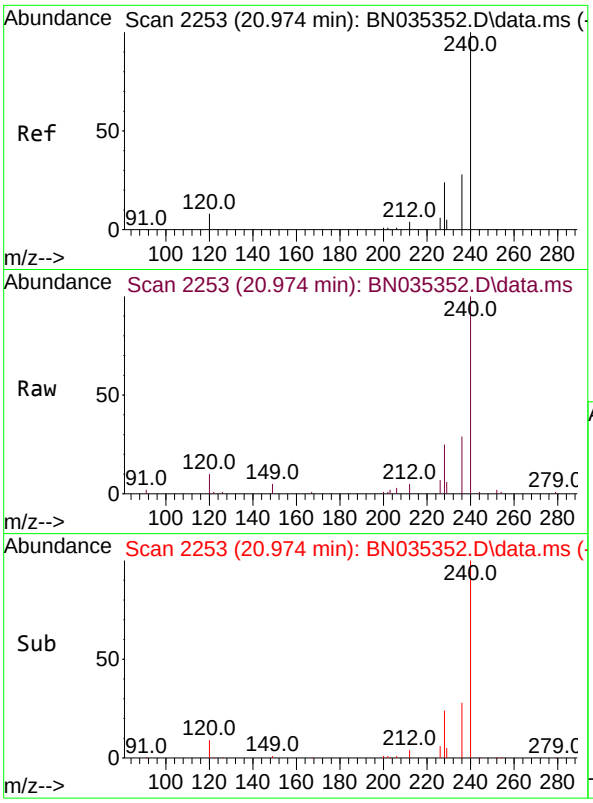


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

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

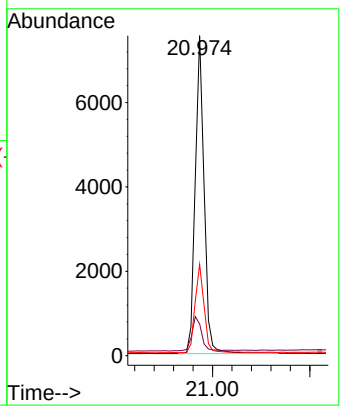




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:240 Resp: 952

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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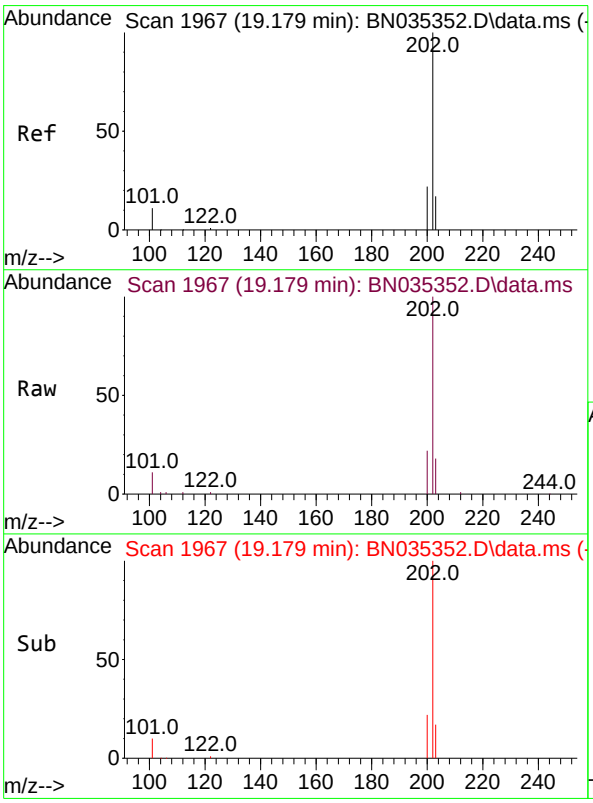
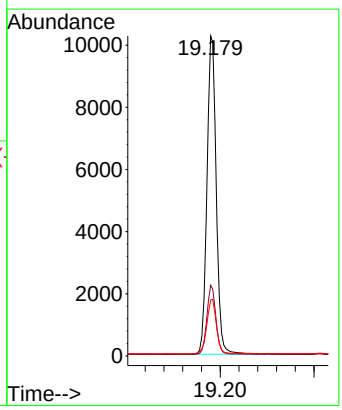
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

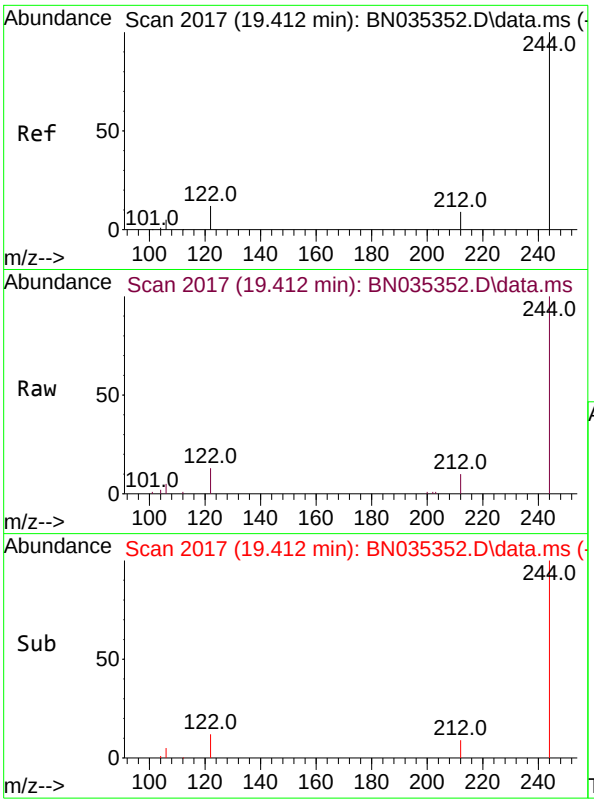


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

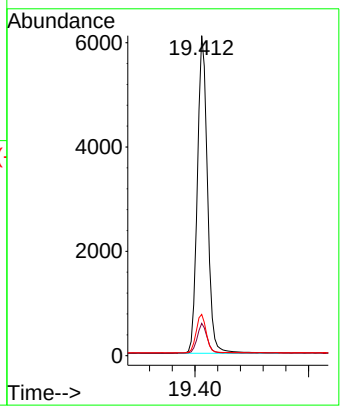




#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:244 Resp: 753

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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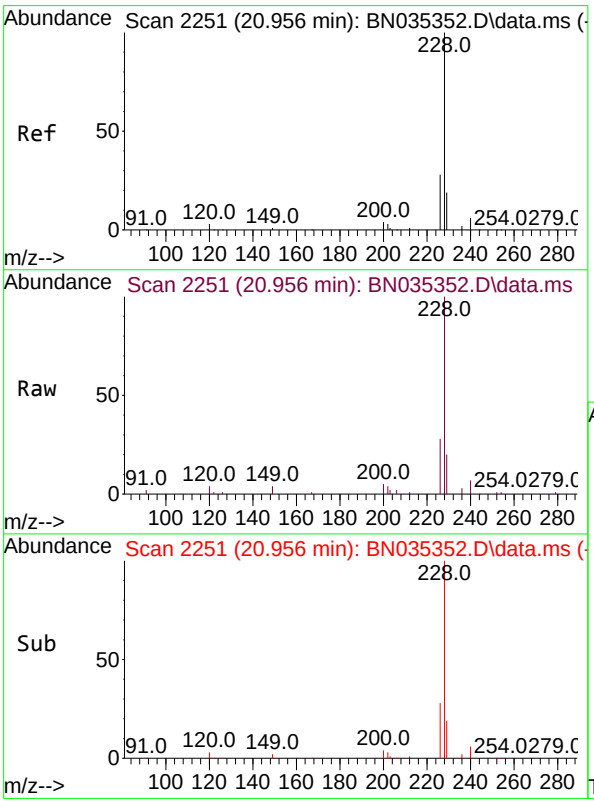
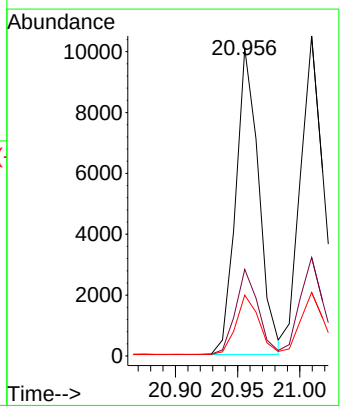
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

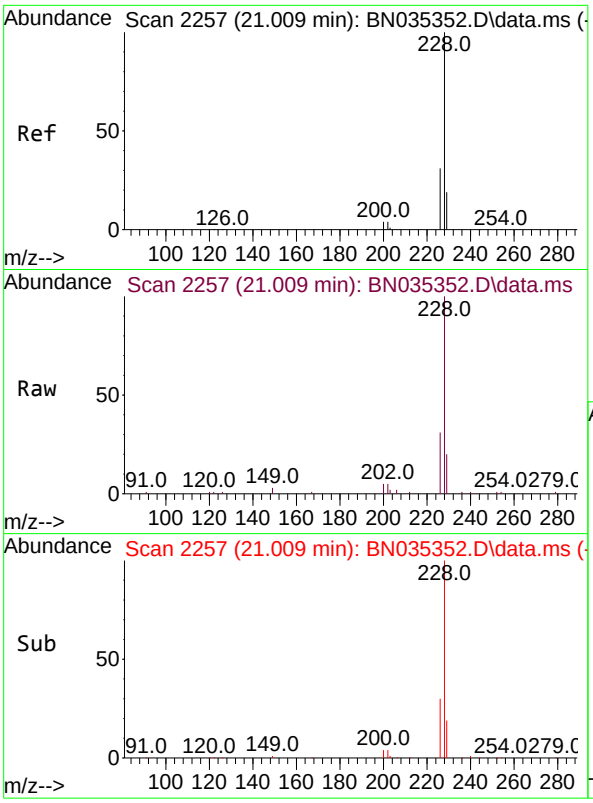


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

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

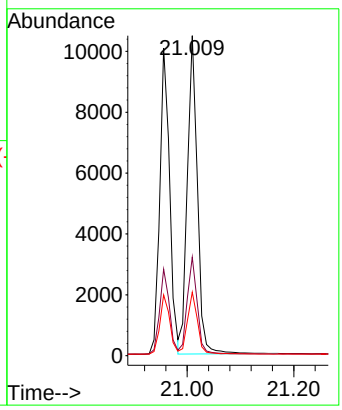




#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 1372

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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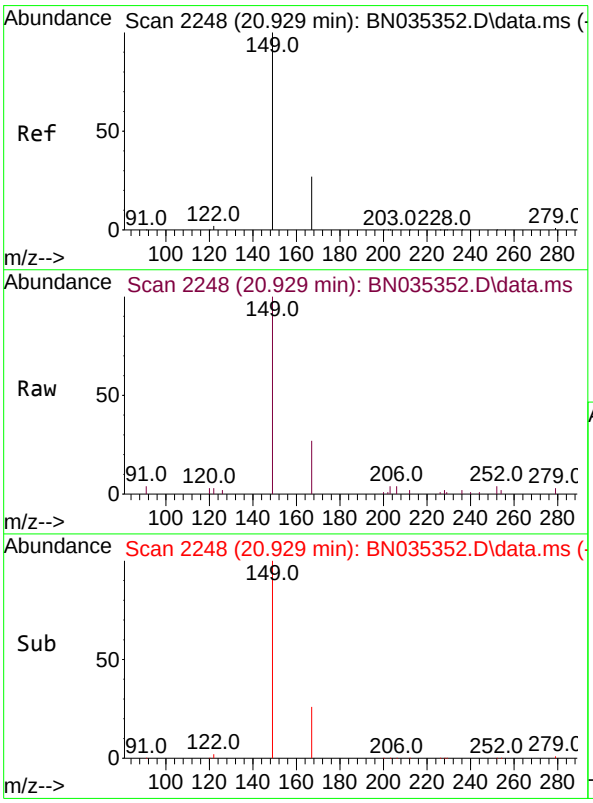
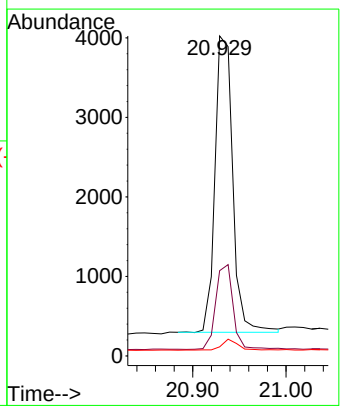
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

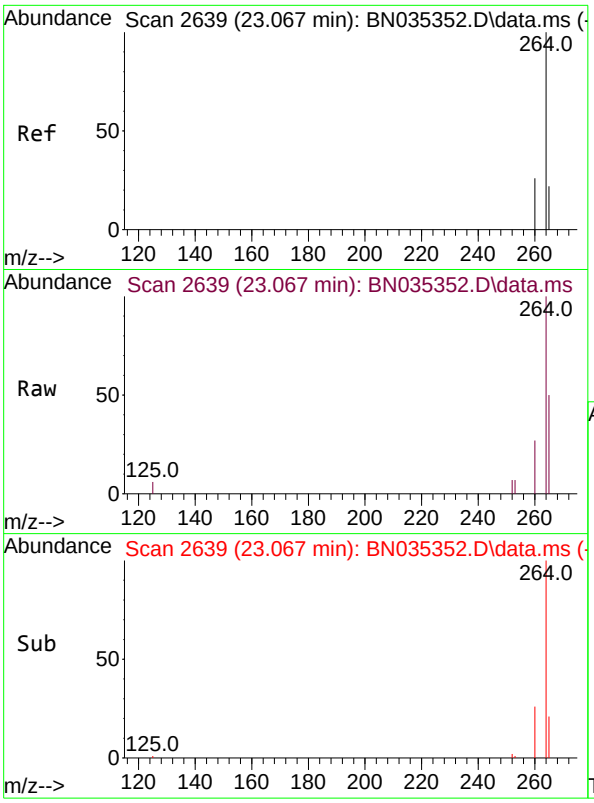


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

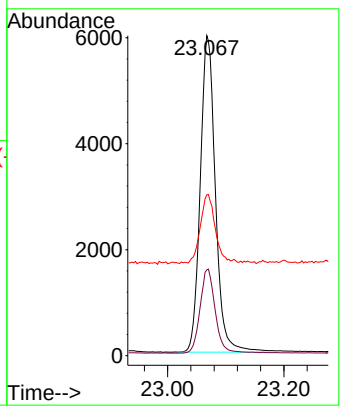




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:264 Resp: 1084

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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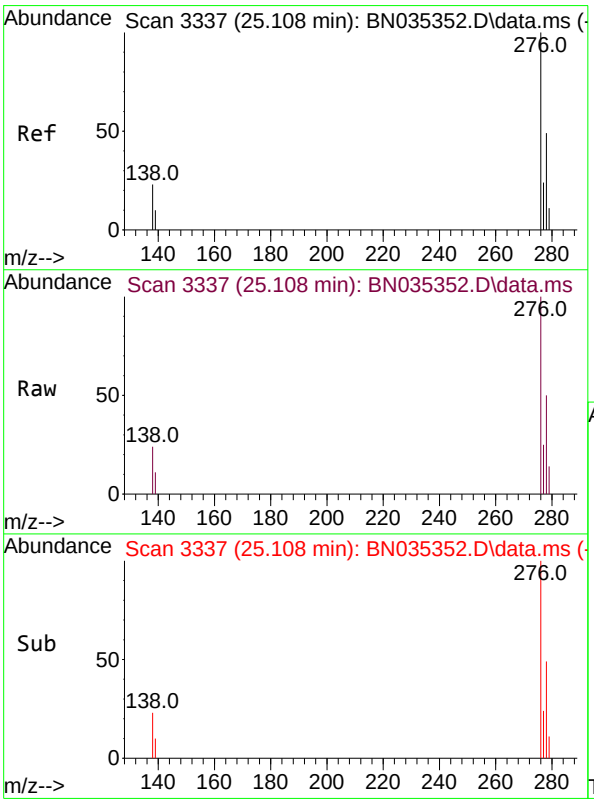
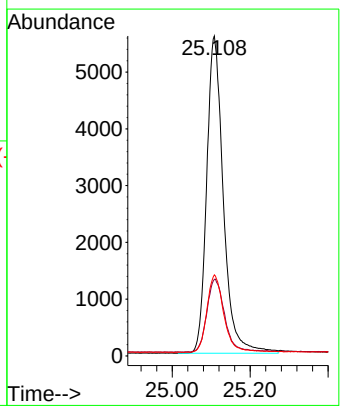
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

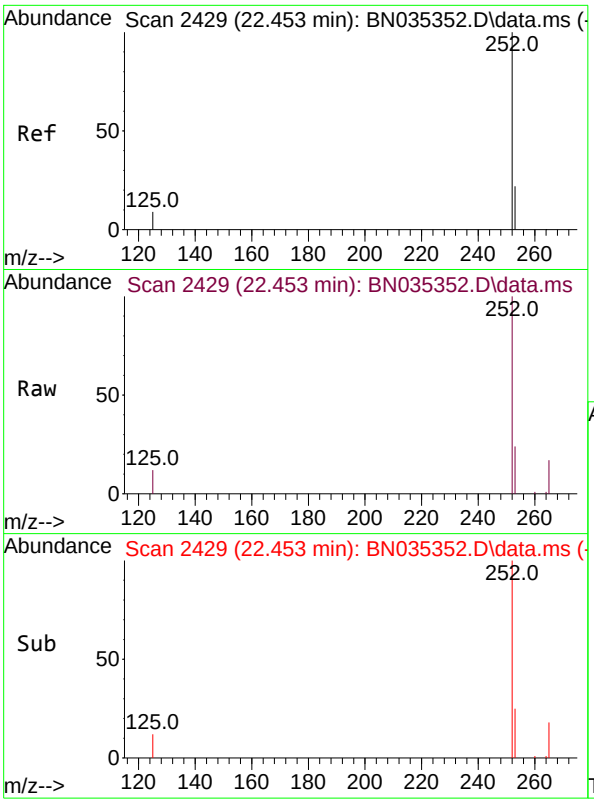


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

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

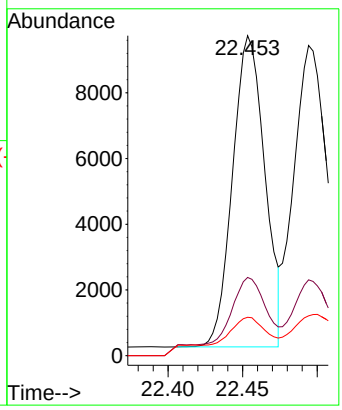




#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1423

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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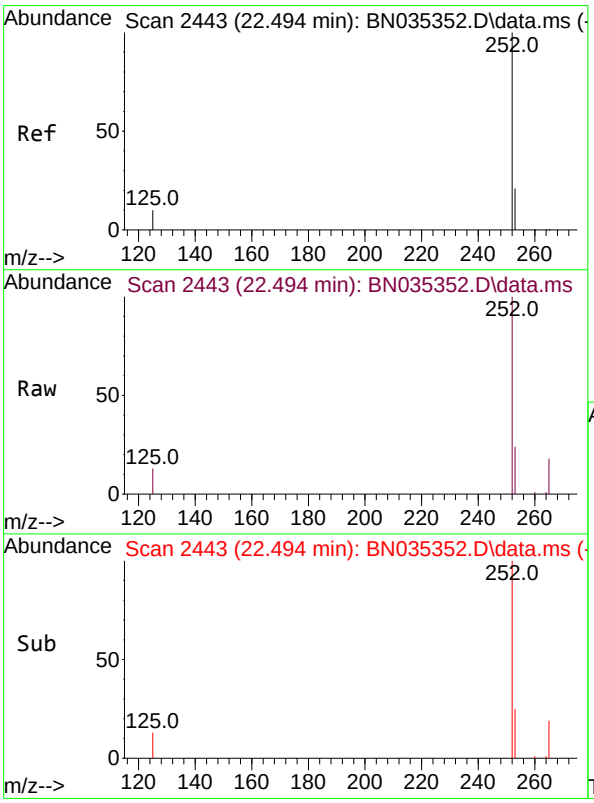
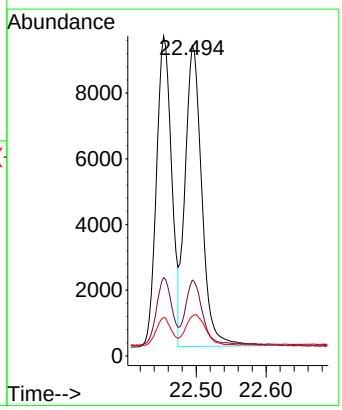
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

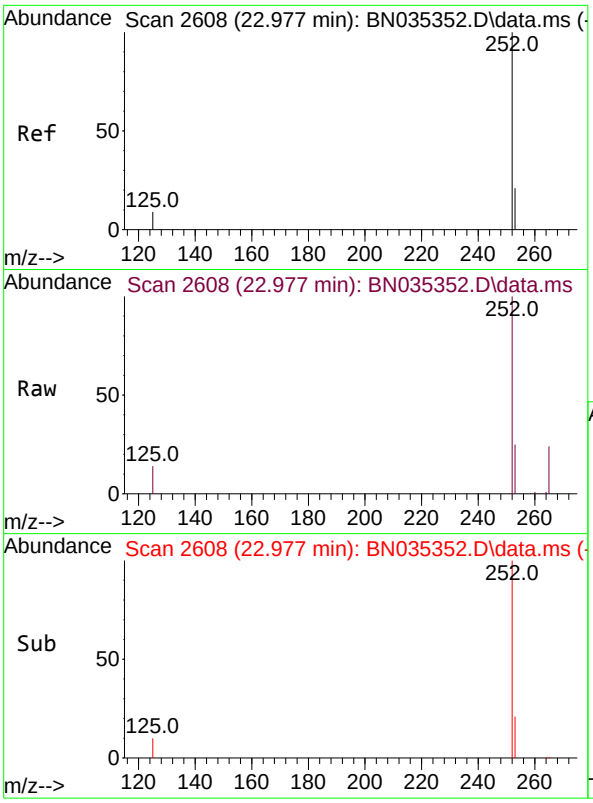


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

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

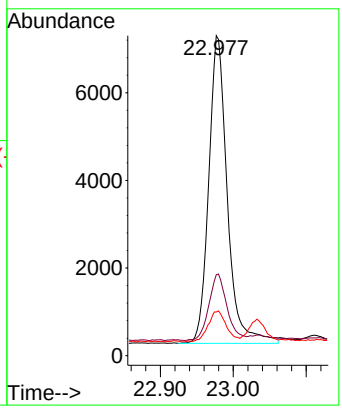




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 1242

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024
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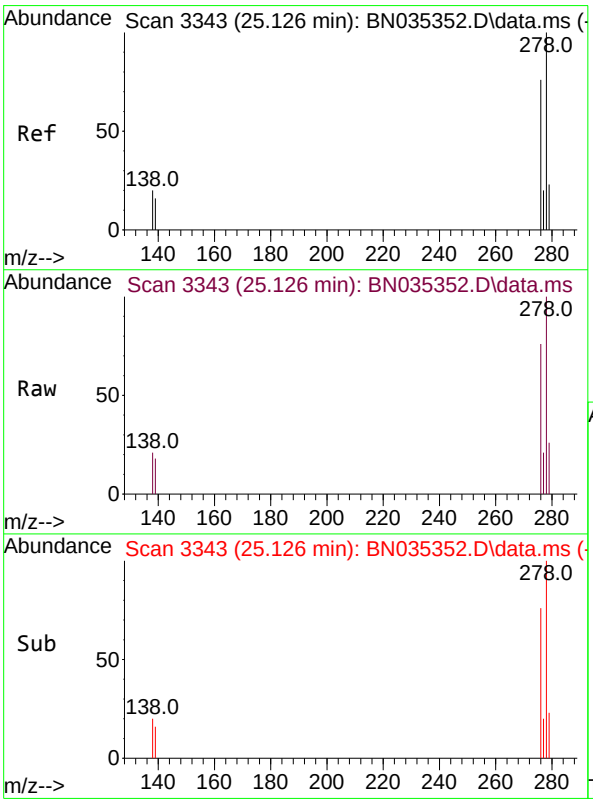
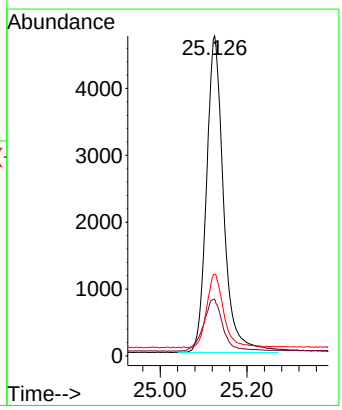
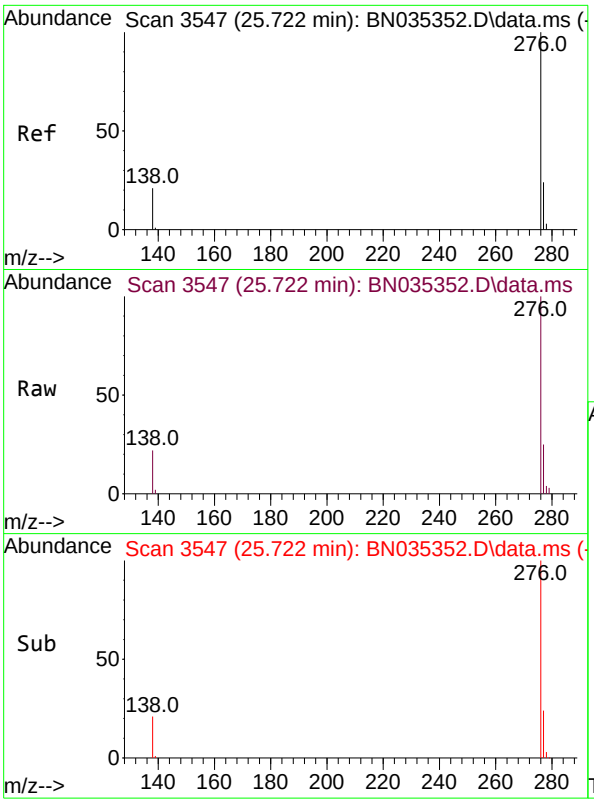


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

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

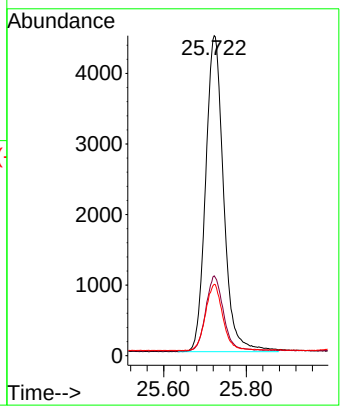




#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 1352

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



Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Manual Integrations
APPROVED

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

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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

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

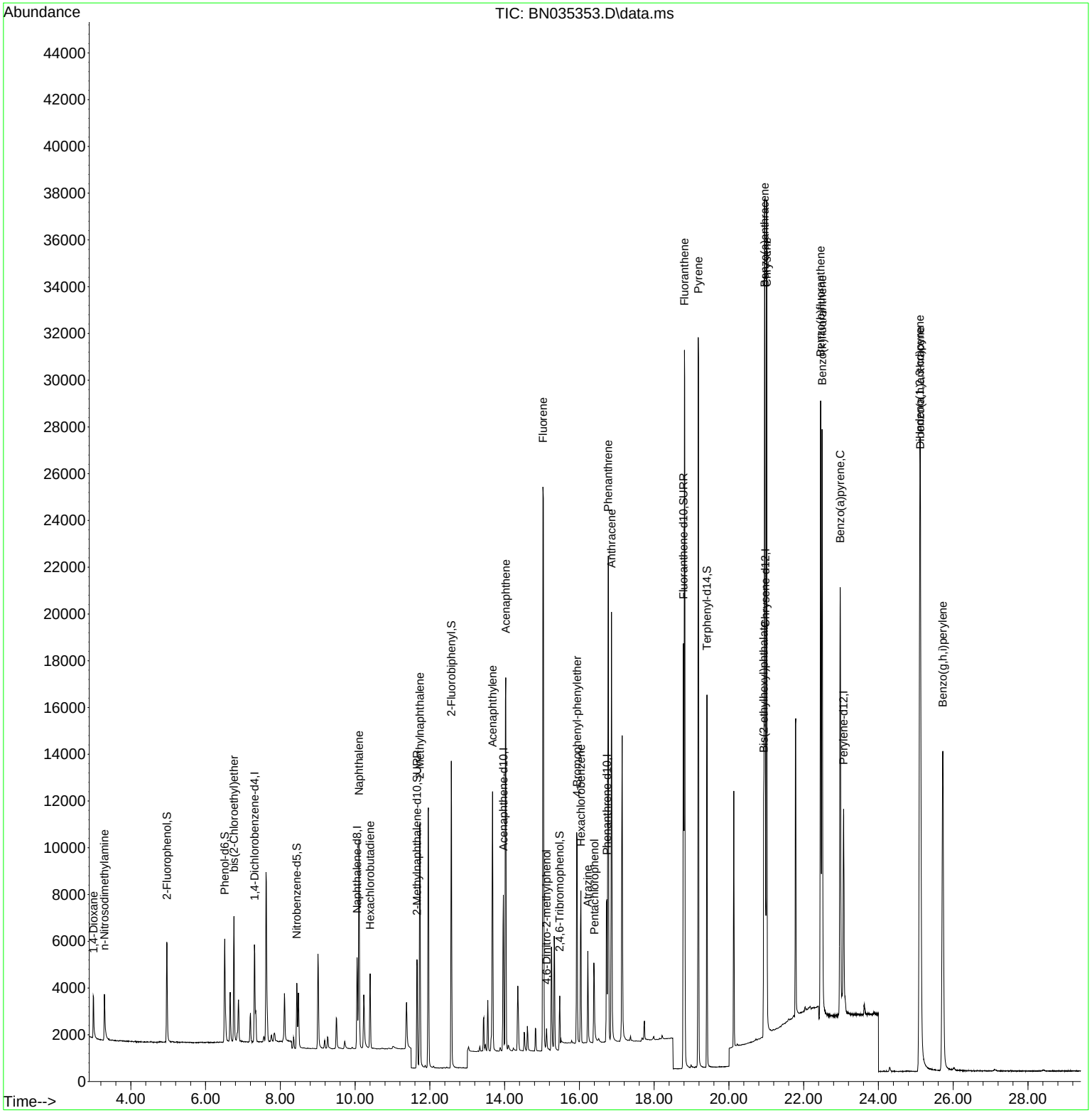
(#) = qualifier out of range (m) = manual integration (+) = signals summed

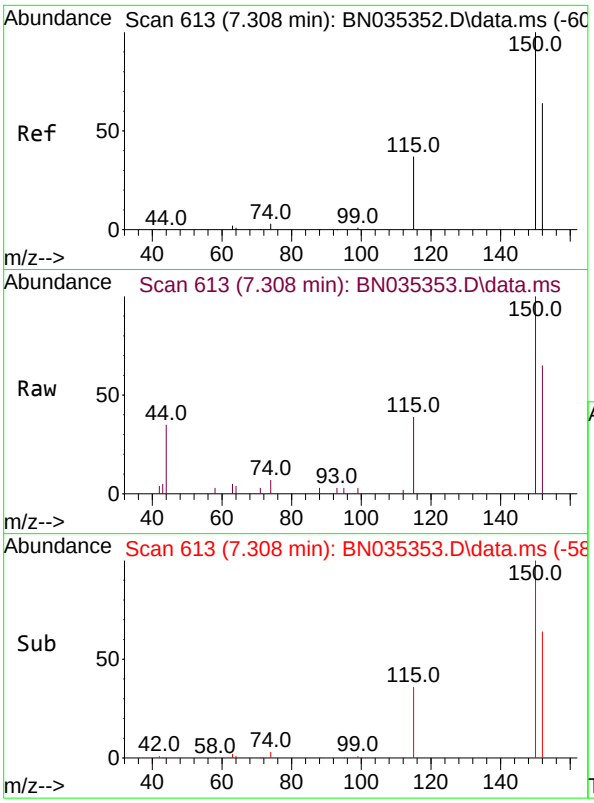
ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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



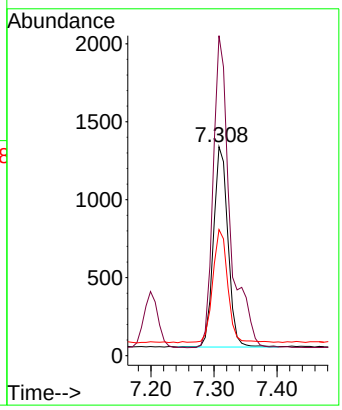


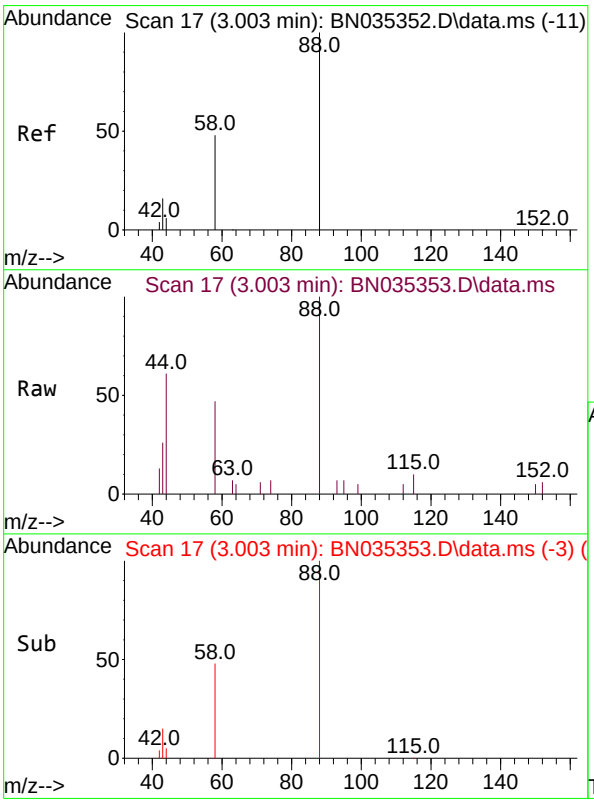
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2047

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

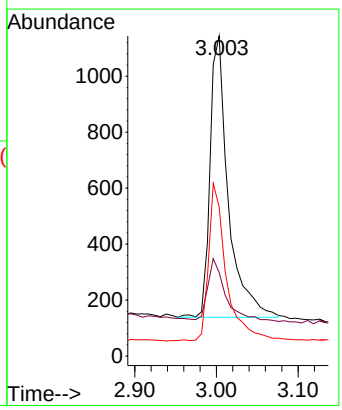


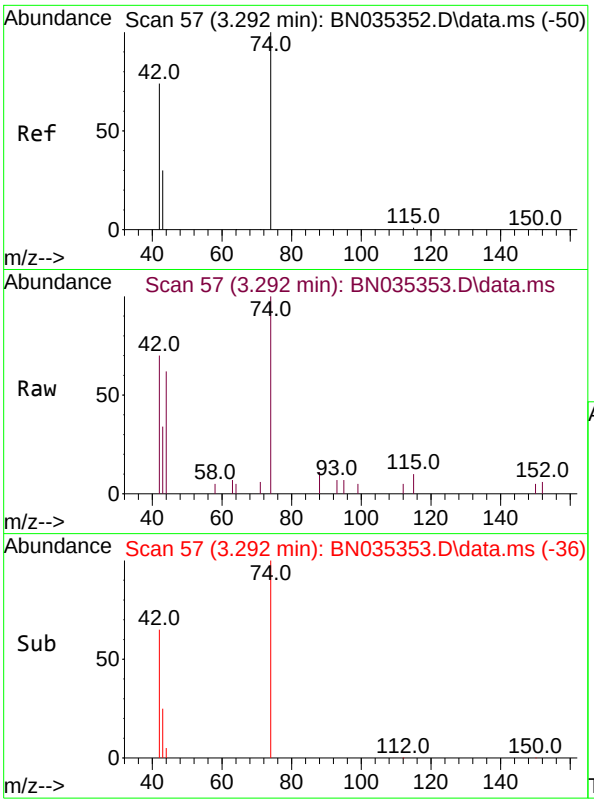


#2
1,4-Dioxane
Concen: 0.836 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 88 Resp: 1554

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



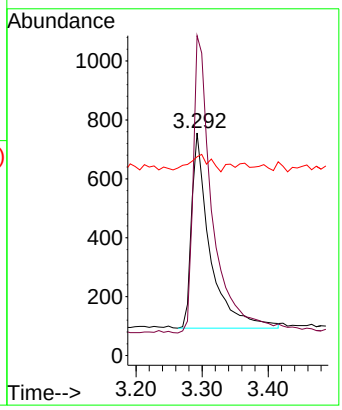


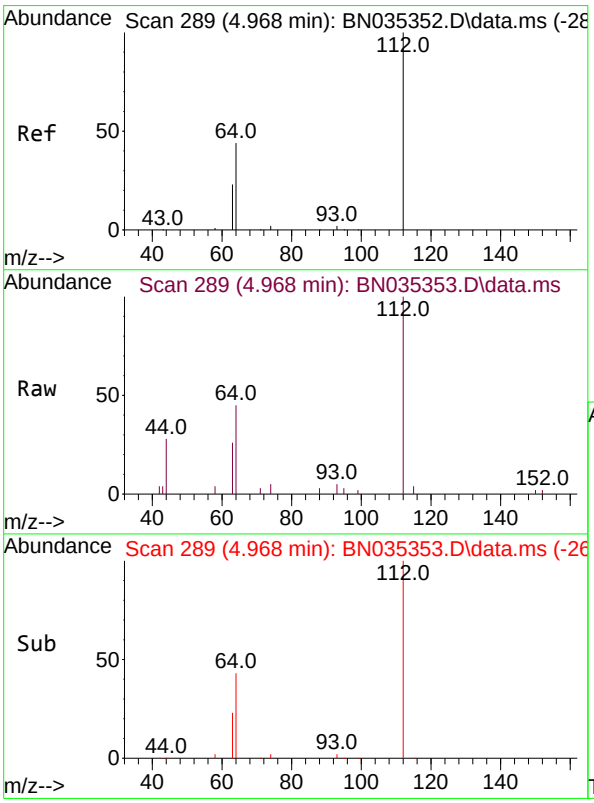
#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 1291

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

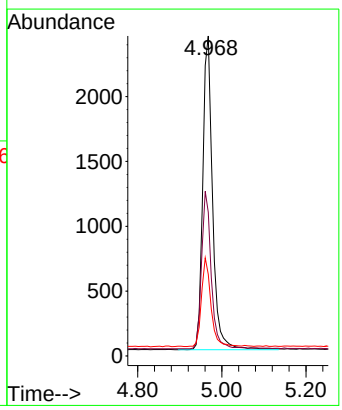


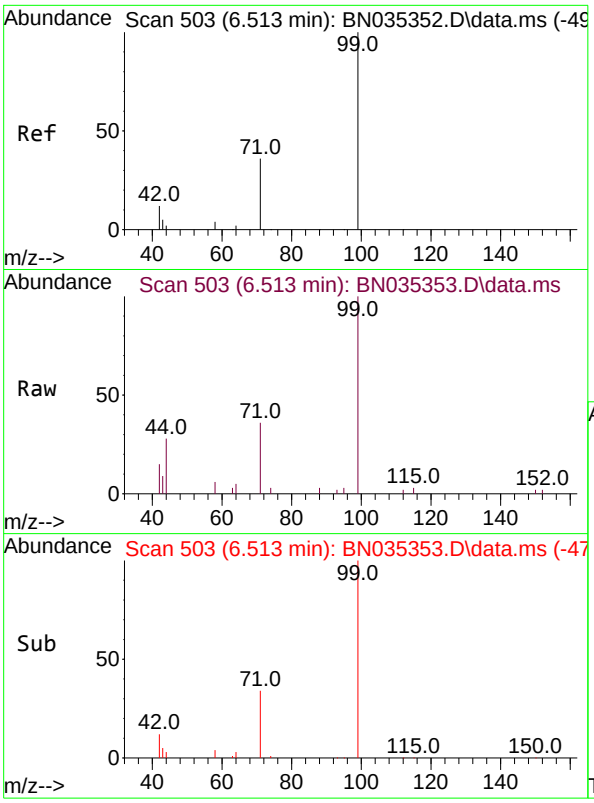


#4
2-Fluorophenol
Concen: 0.755 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:112 Resp: 3924

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



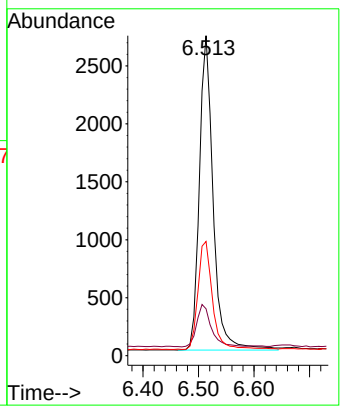


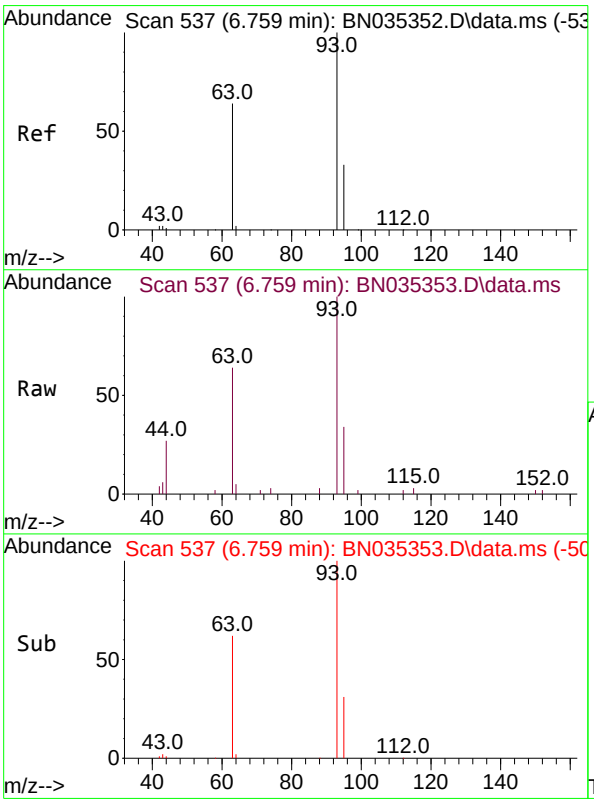
#5
Phenol-d6
Concen: 0.718 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 4681

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

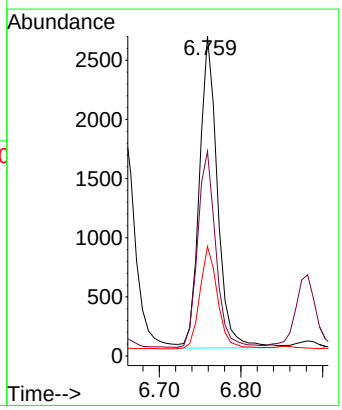


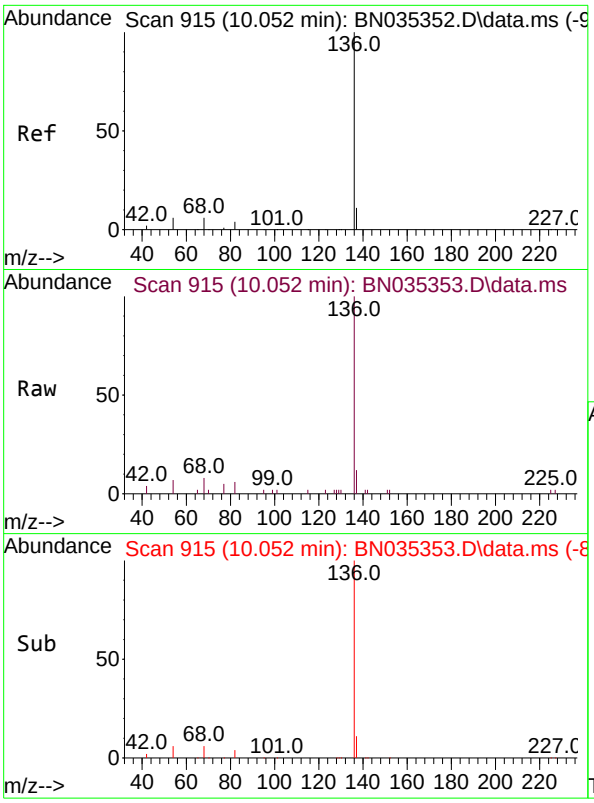


#6
bis(2-Chloroethyl)ether
Concen: 0.831 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 93 Resp: 4066

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



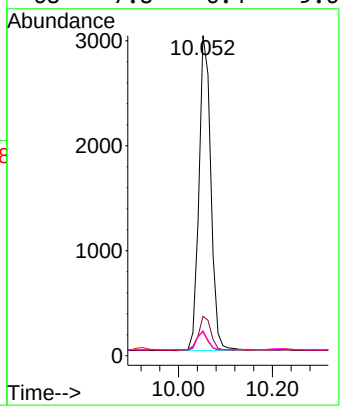


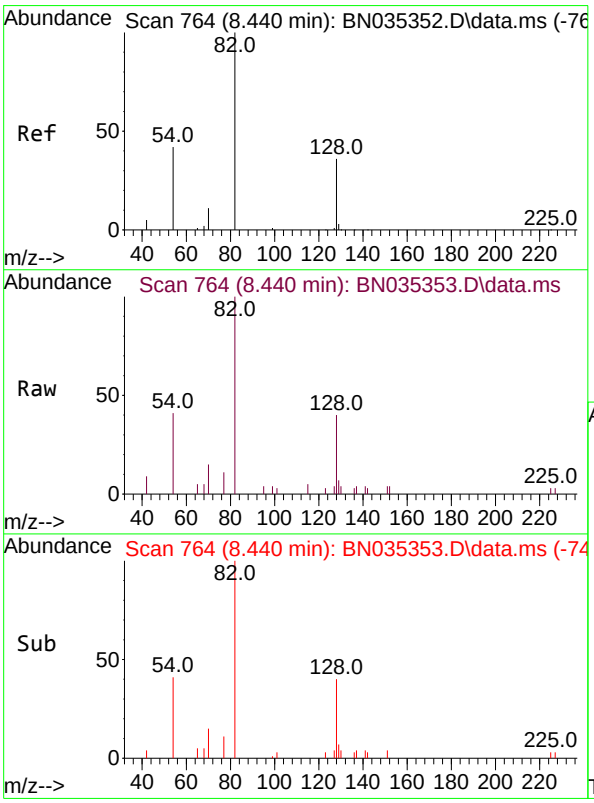
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 5308

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

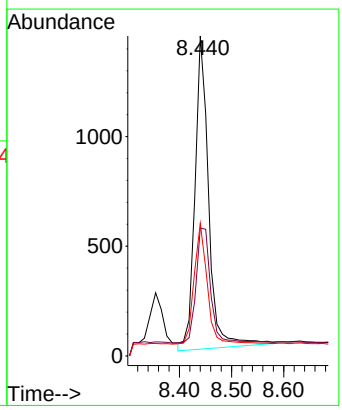


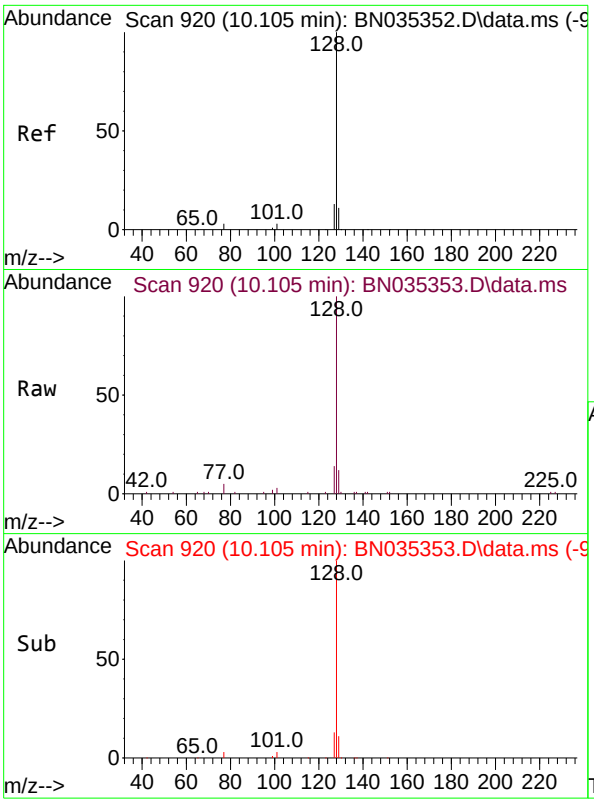


#8
Nitrobenzene-d5
Concen: 0.570 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion: 82 Resp: 2634

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



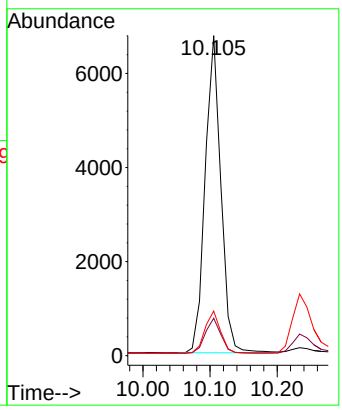


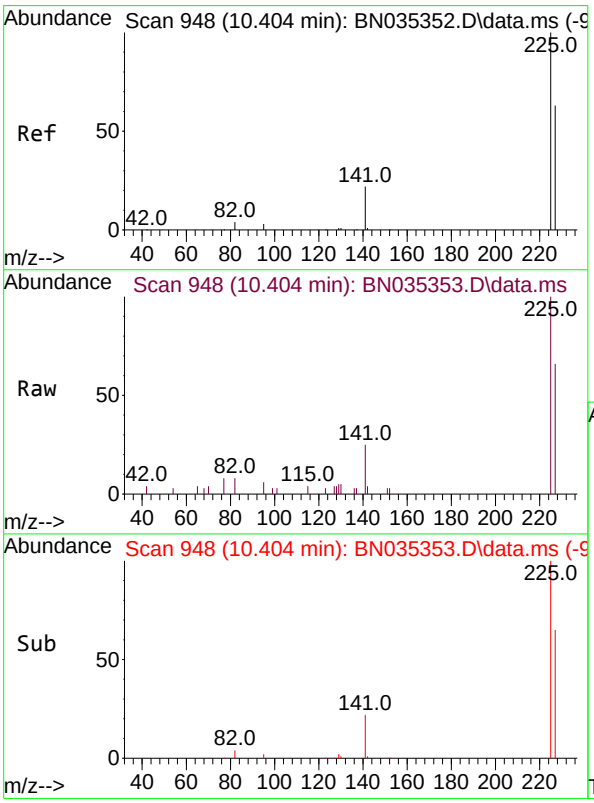
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 10954

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

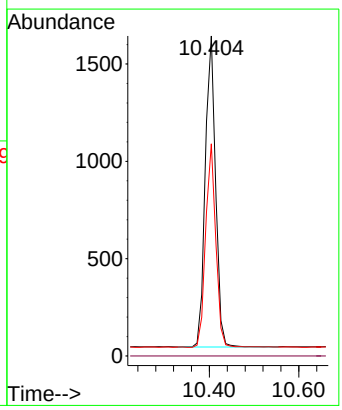


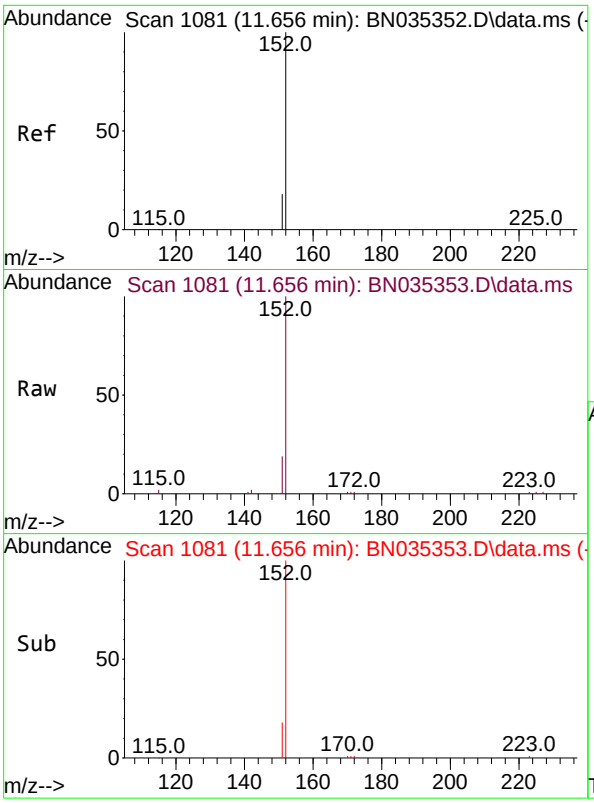


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:225 Resp: 2559

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



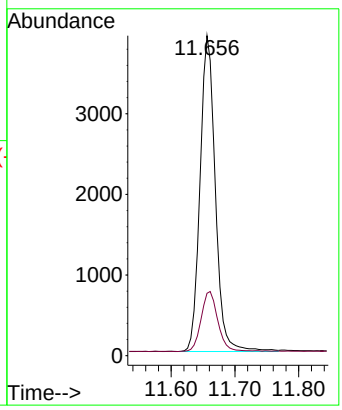


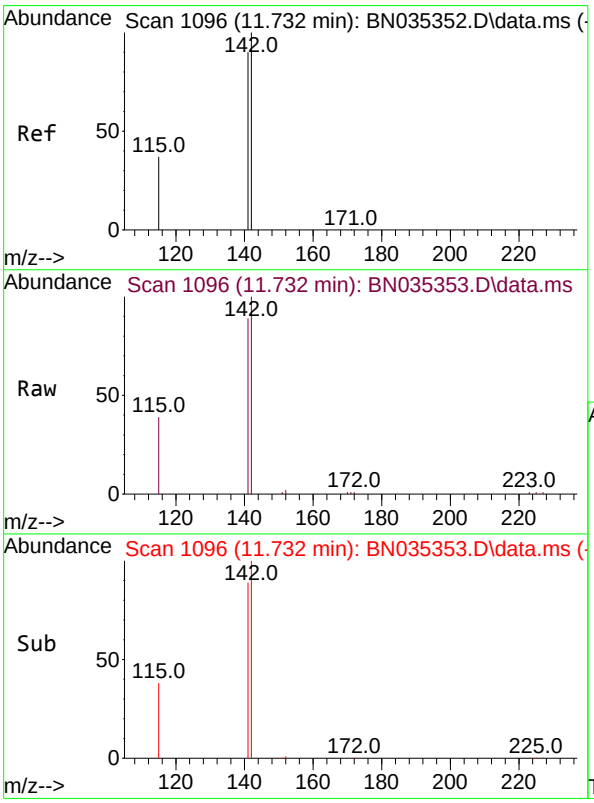
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6530

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

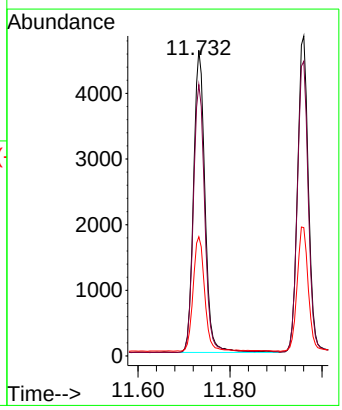


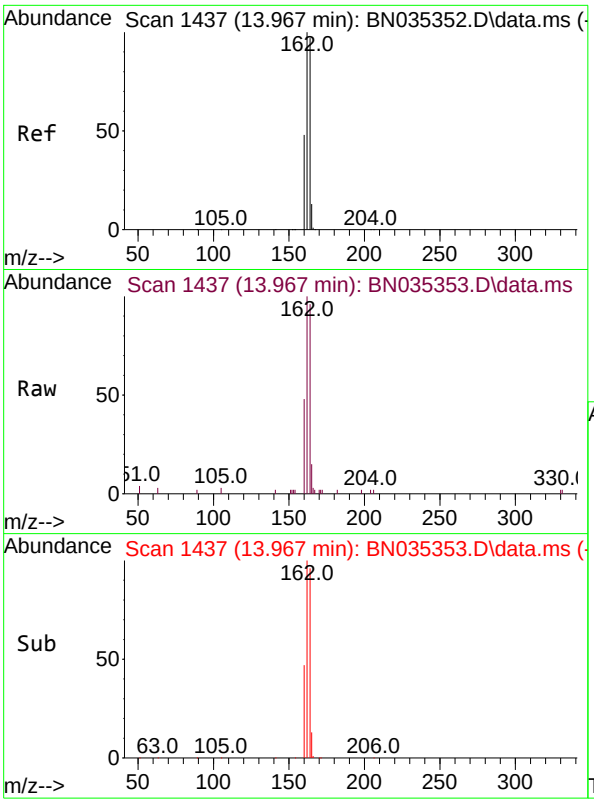


#12
2-Methylnaphthalene
Concen: 0.775 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:142 Resp: 7925

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



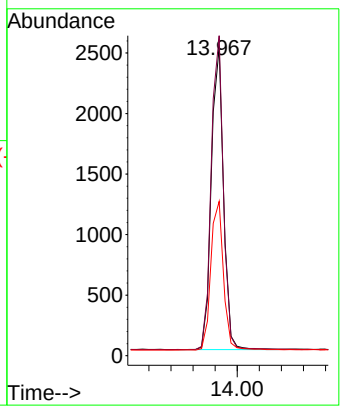


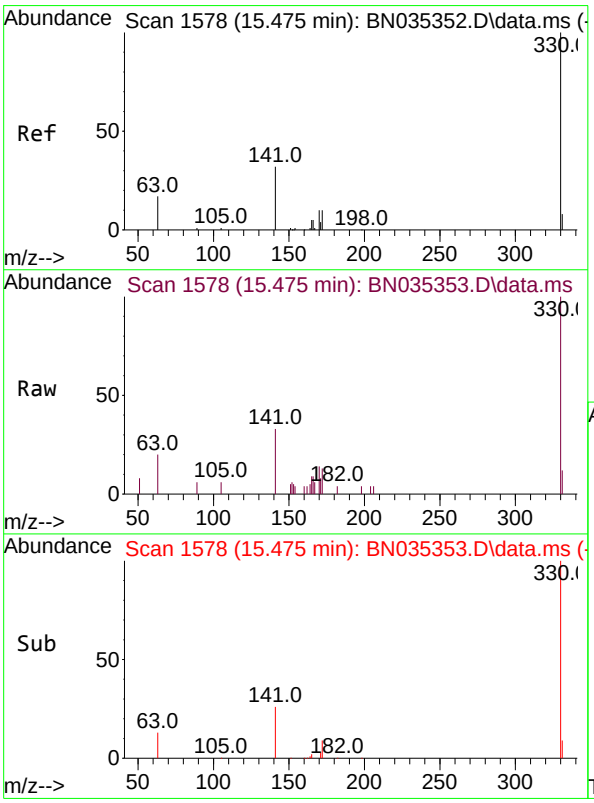
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 3823

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

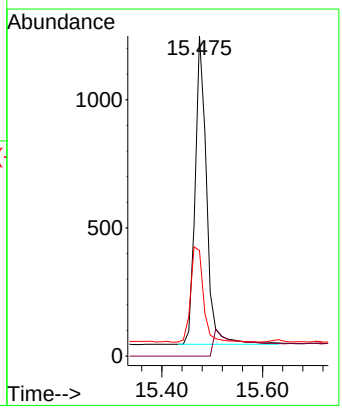


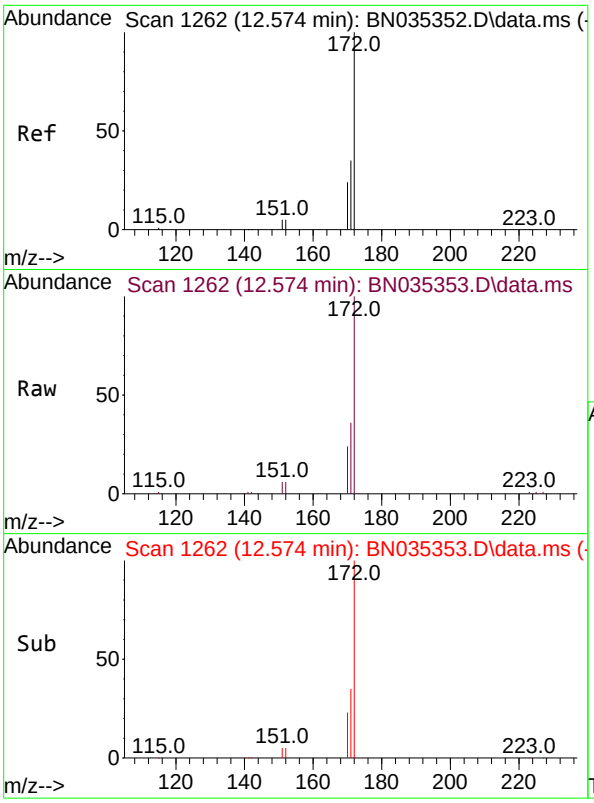


#14
2,4,6-Tribromophenol
Concen: 0.744 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:330 Resp: 2051

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



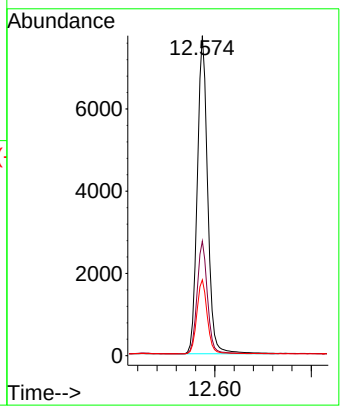


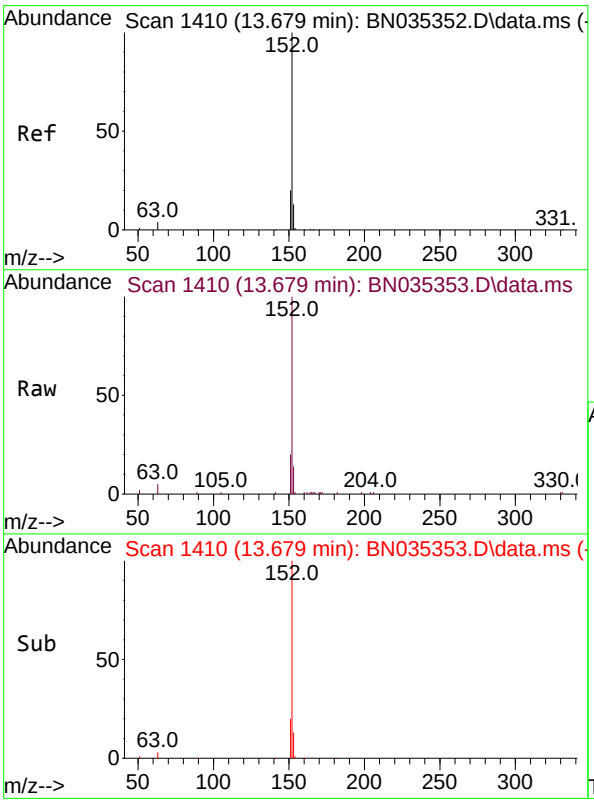
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 11528

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

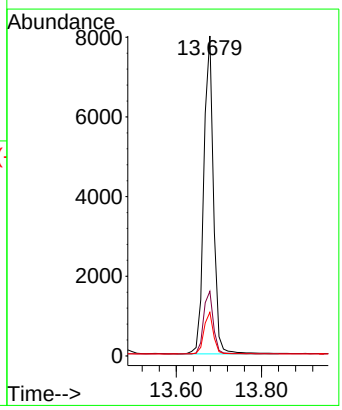


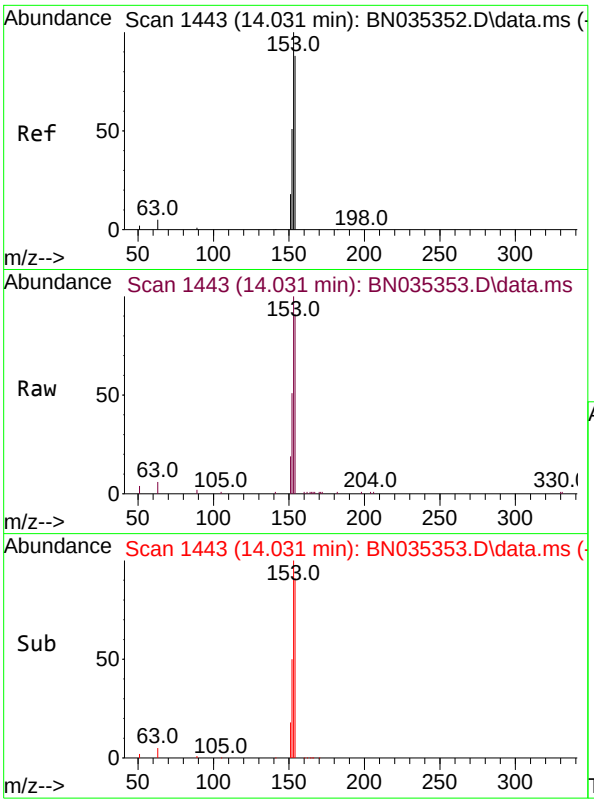


#16
Acenaphthylene
Concen: 0.766 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:152 Resp: 12523

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



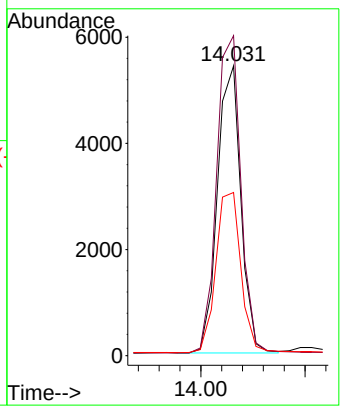


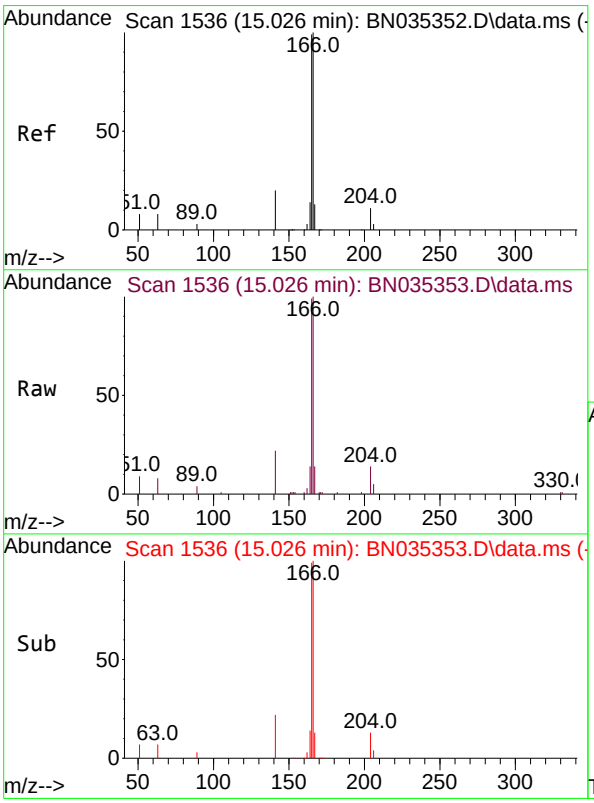
#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 8470

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

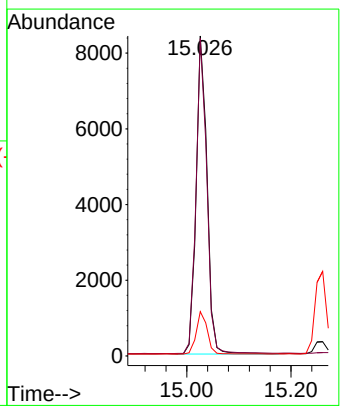


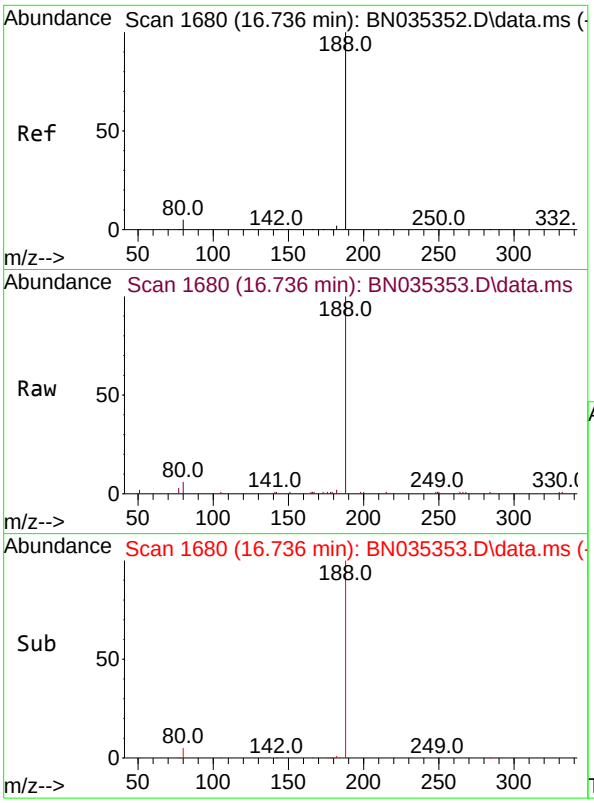


#18
Fluorene
Concen: 0.777 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:166 Resp: 12232

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



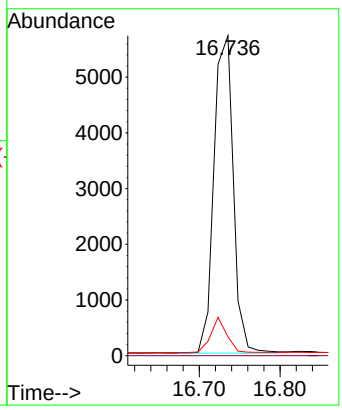


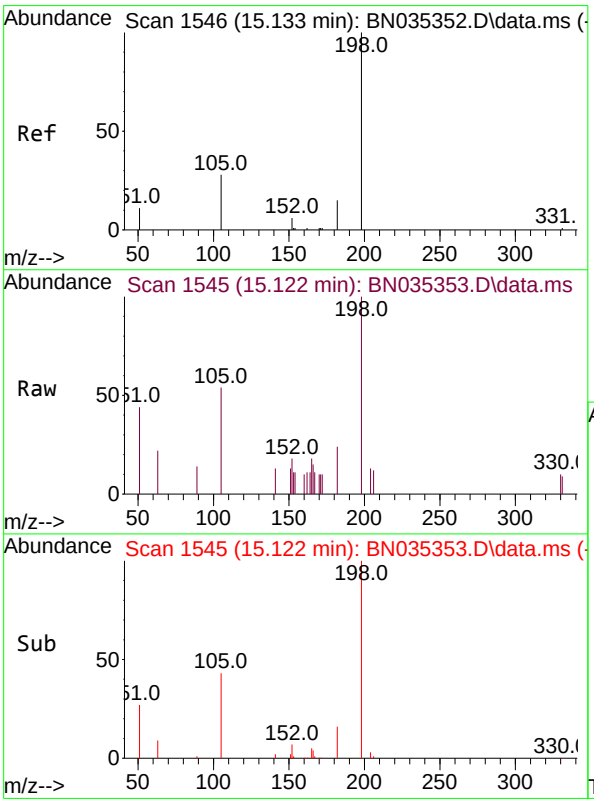
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 9525

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

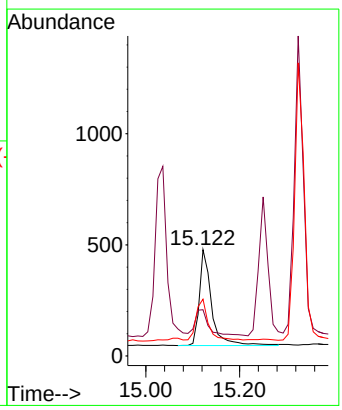


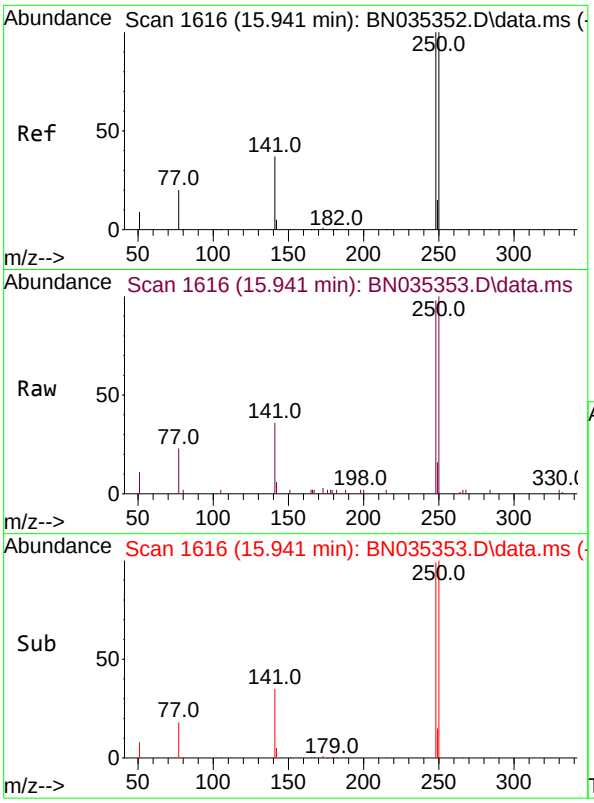


#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:198 Resp: 784

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



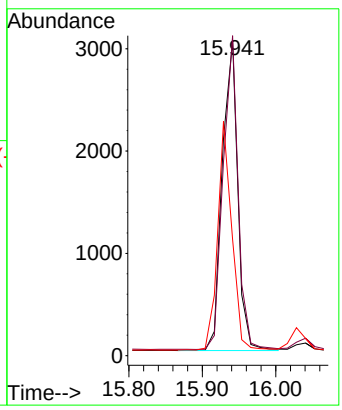


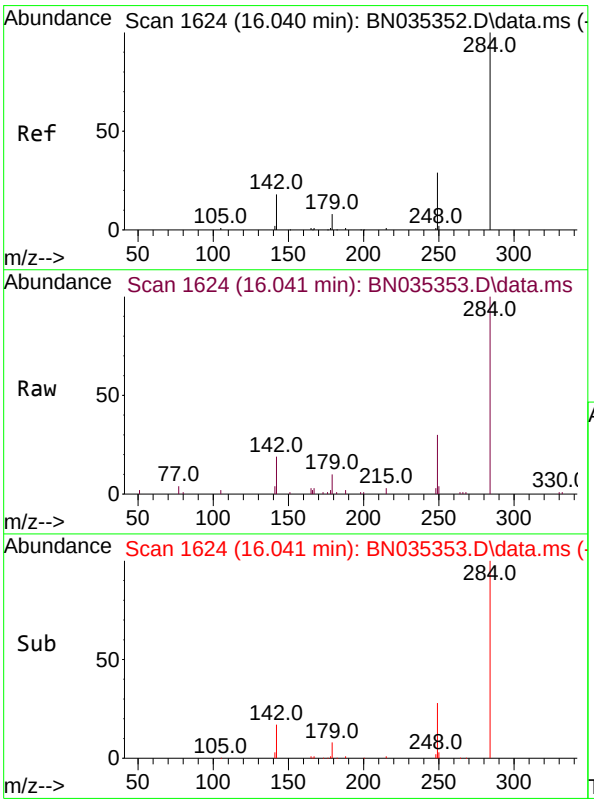
#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 4440

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

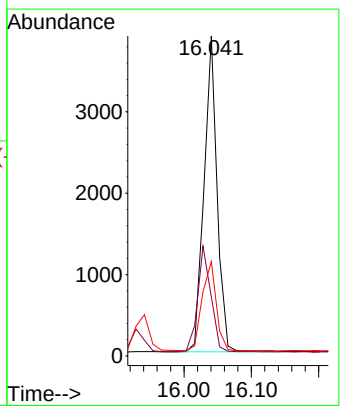


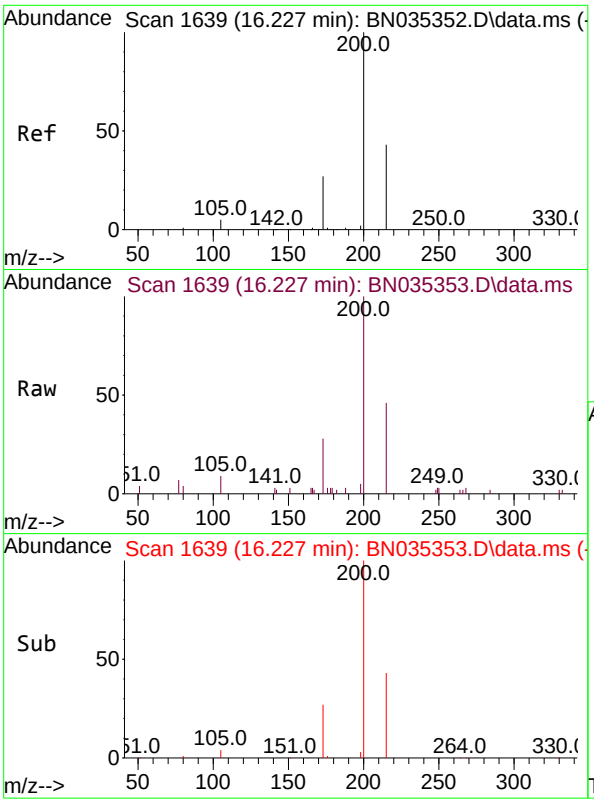


#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:284 Resp: 5253

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



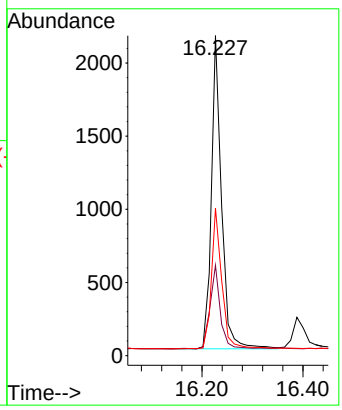


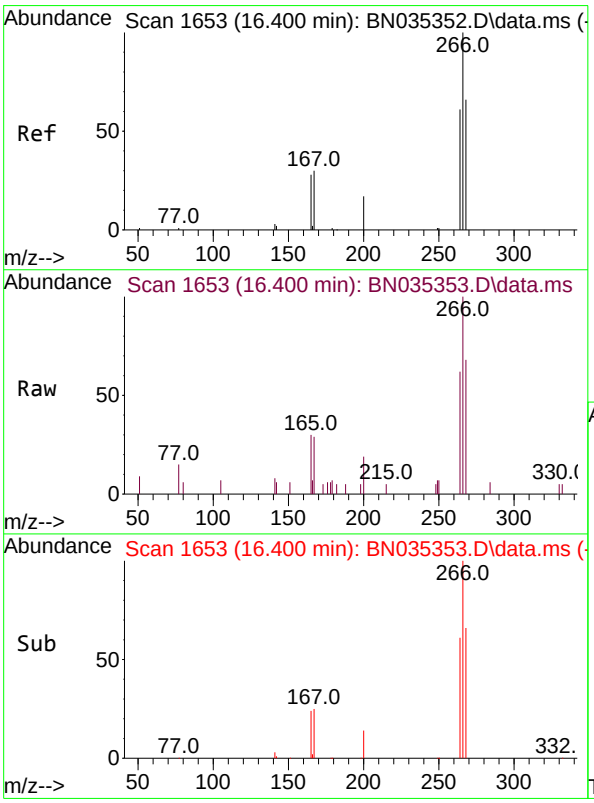
#23
Atrazine
Concen: 0.547 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 2978

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

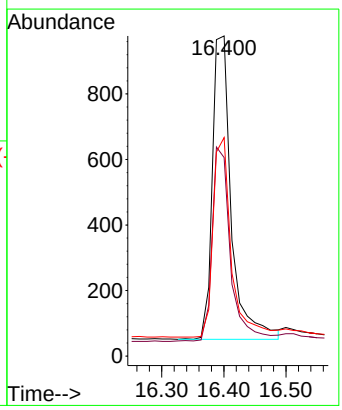


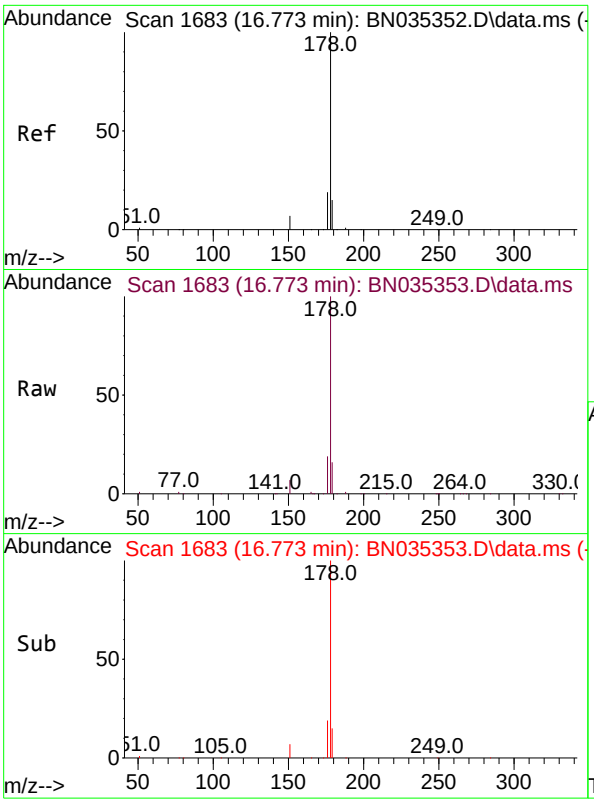


#24
Pentachlorophenol
Concen: 0.669 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:266 Resp: 1968

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



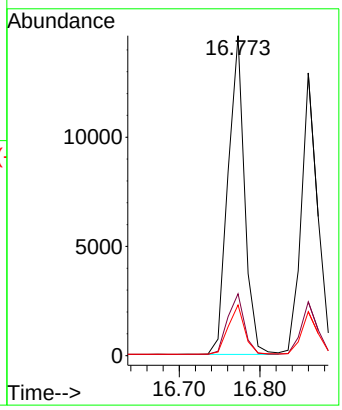


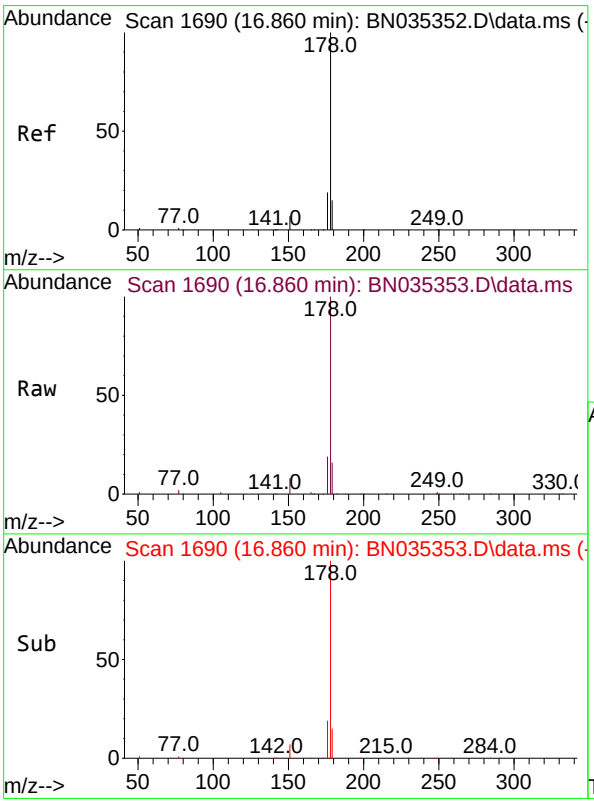
#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 20803

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

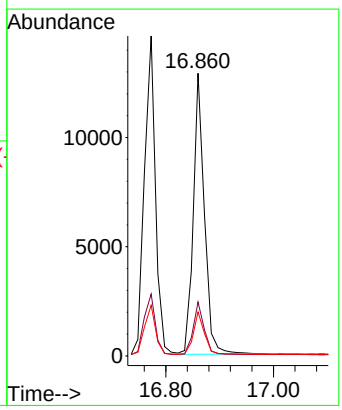


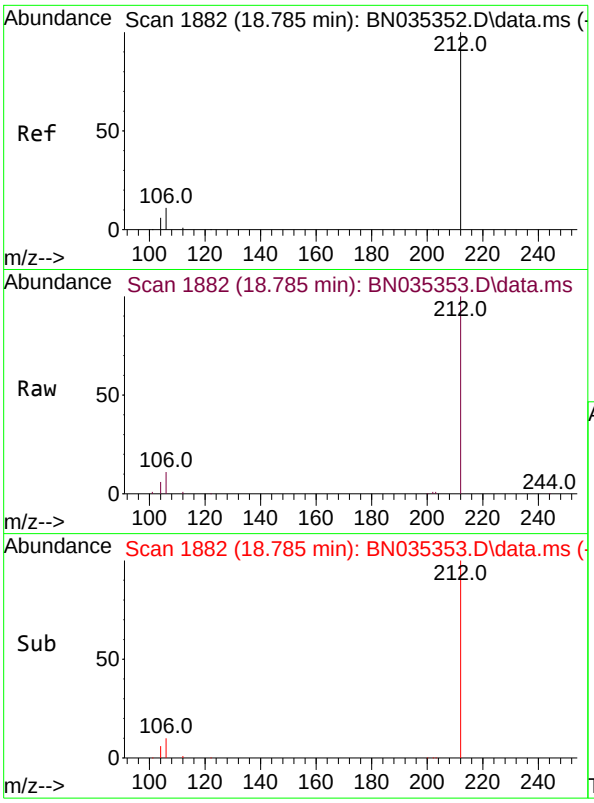


#26
Anthracene
Concen: 0.805 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:178 Resp: 18528

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



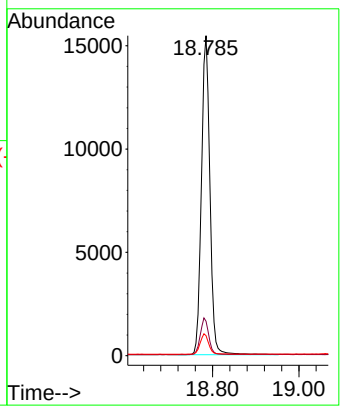


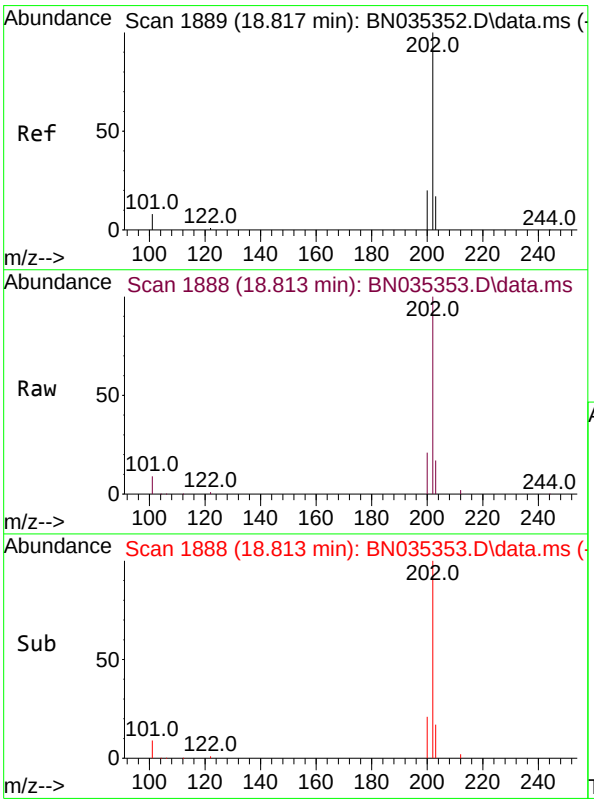
#27
Fluoranthene-d10
Concen: 0.721 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 21050

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

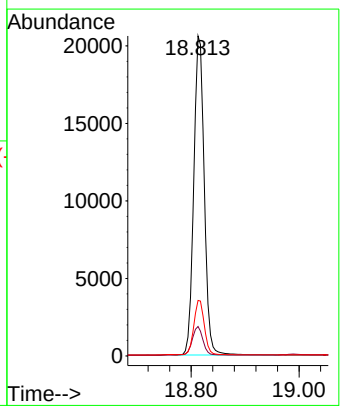


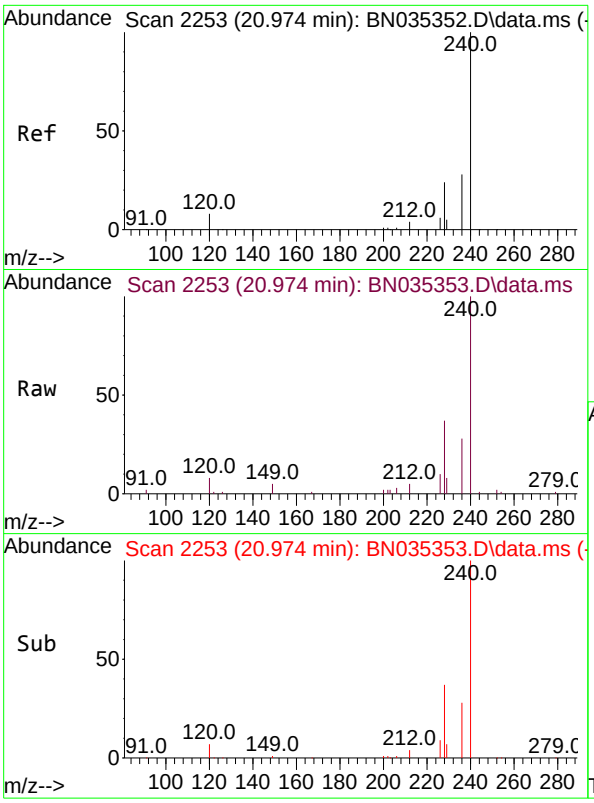


#28
Fluoranthene
Concen: 0.805 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 27743

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



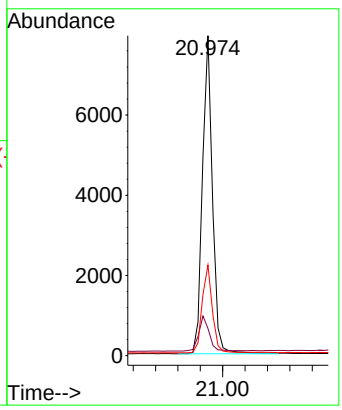


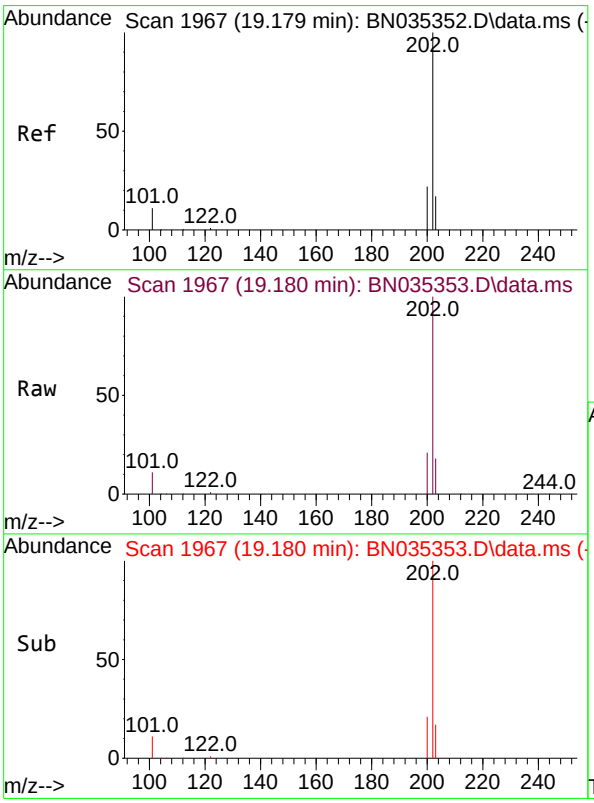
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 9837

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

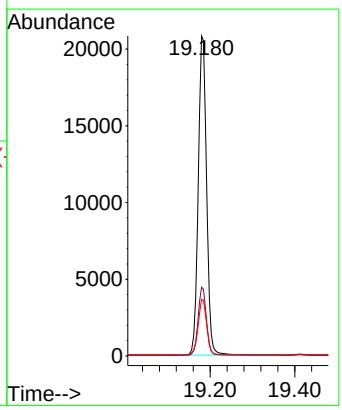


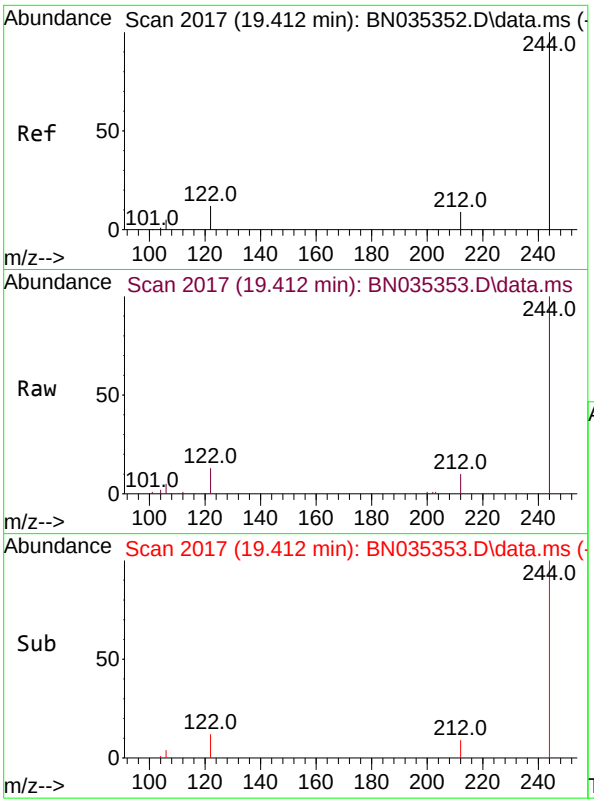


#30
Pyrene
Concen: 0.866 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:202 Resp: 28384

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



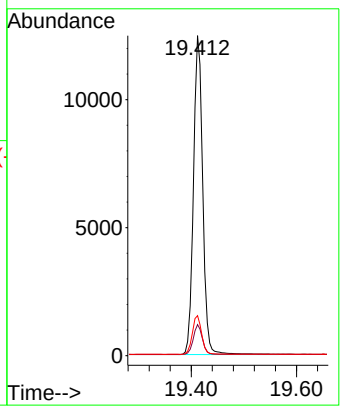


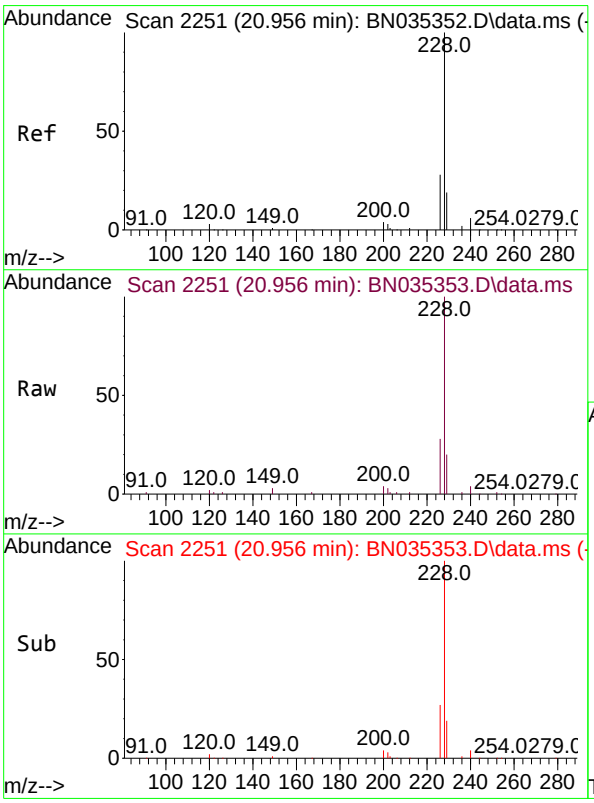
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 15171

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

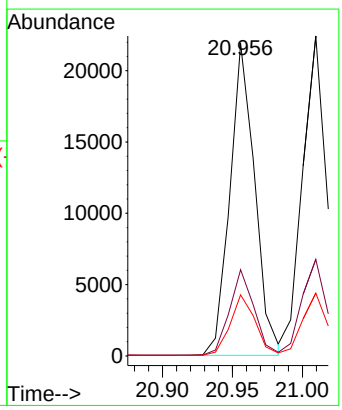


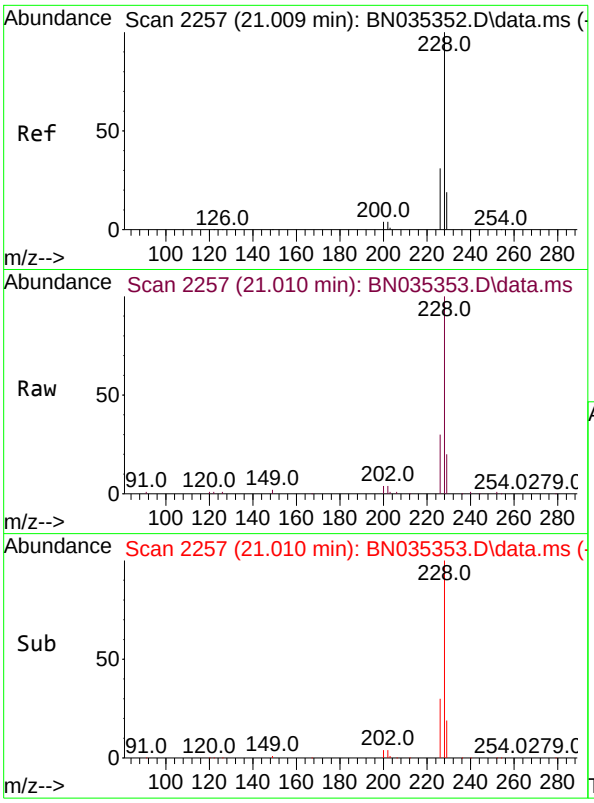


#32
Benzo(a)anthracene
Concen: 0.790 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:228 Resp: 27048

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



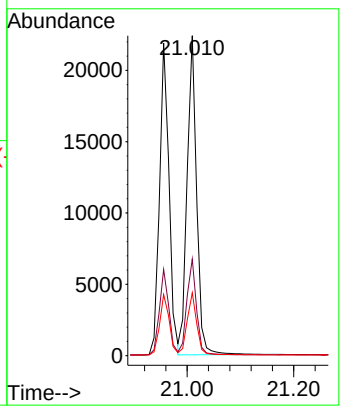


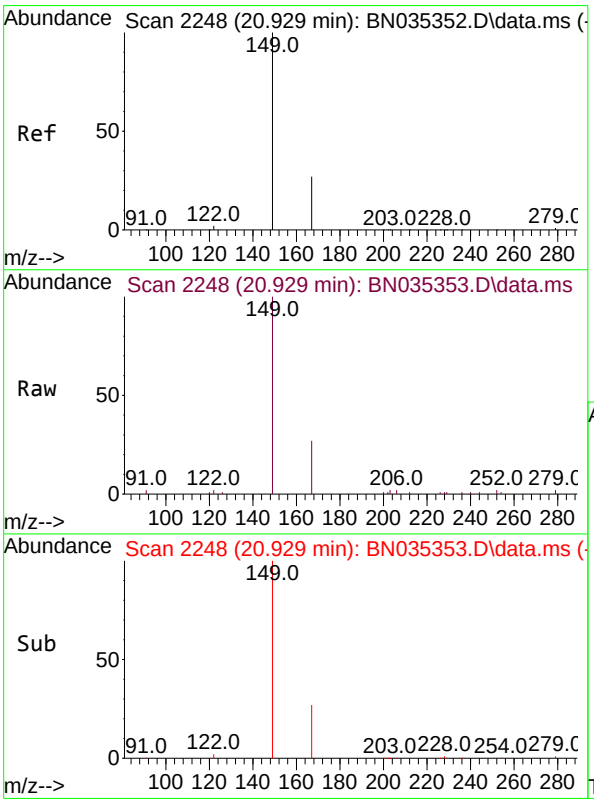
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 27838

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

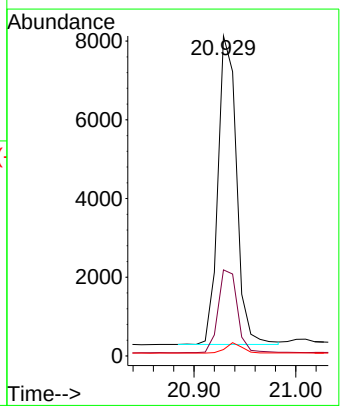


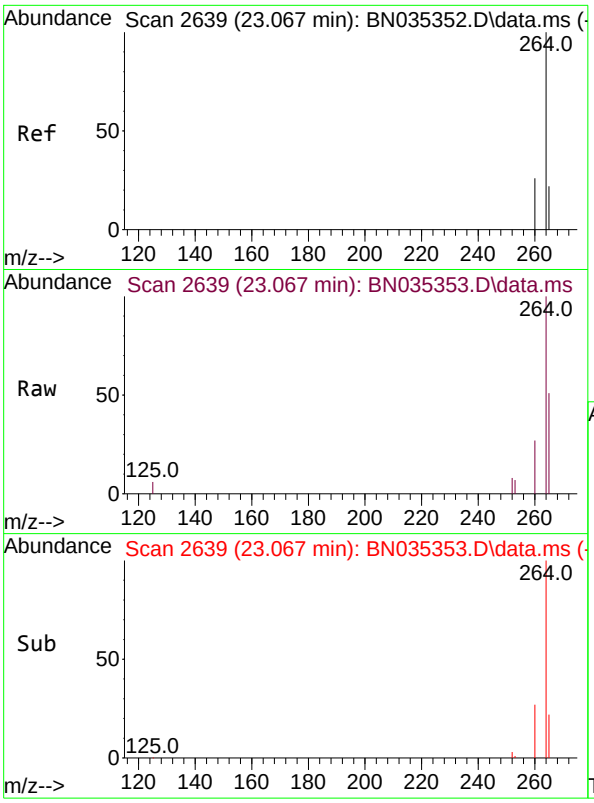


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.553 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:149 Resp: 9941

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



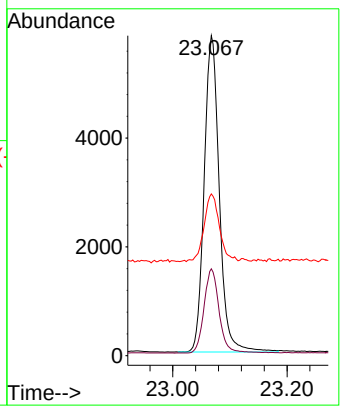


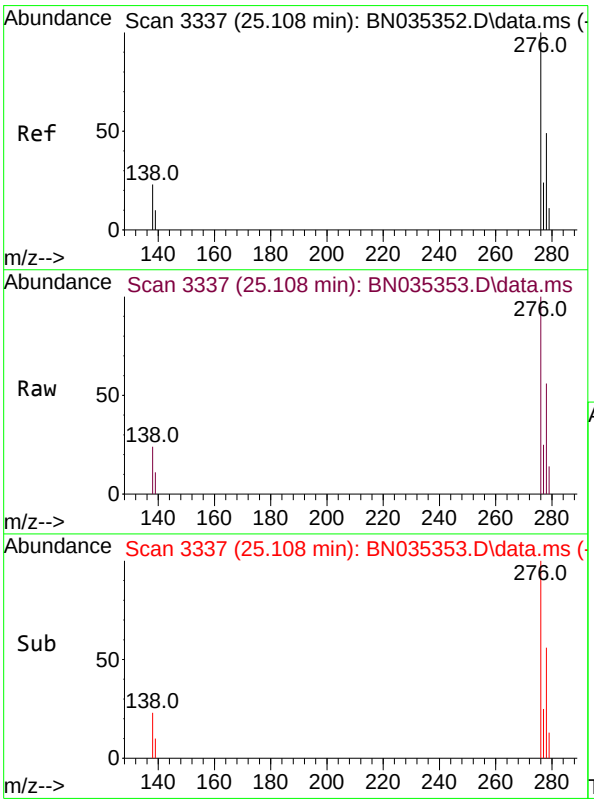
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 10698

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

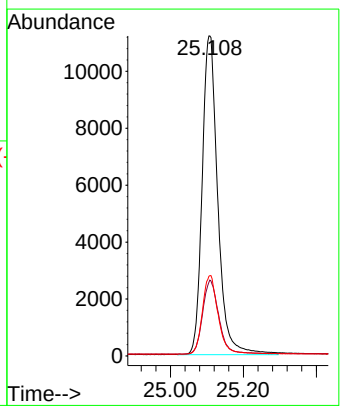


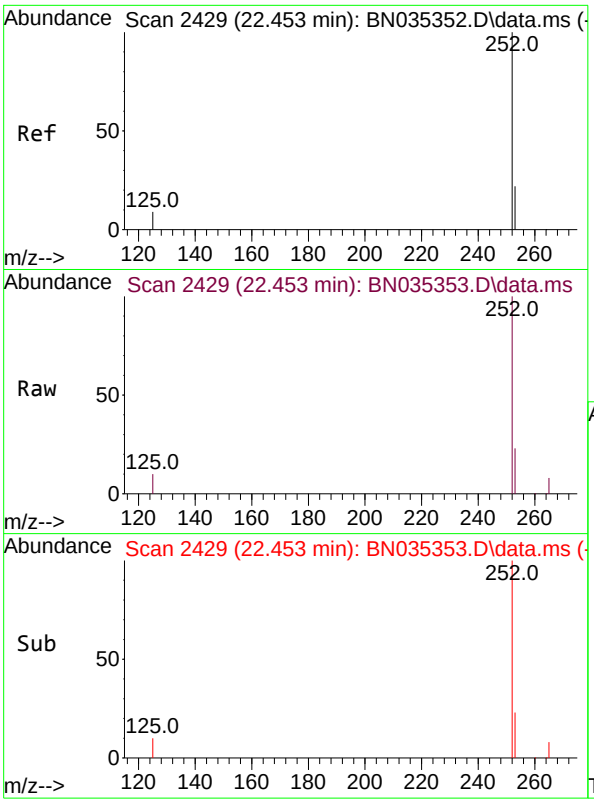


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.779 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:276 Resp: 33248

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



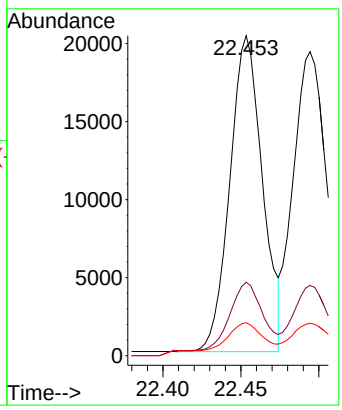


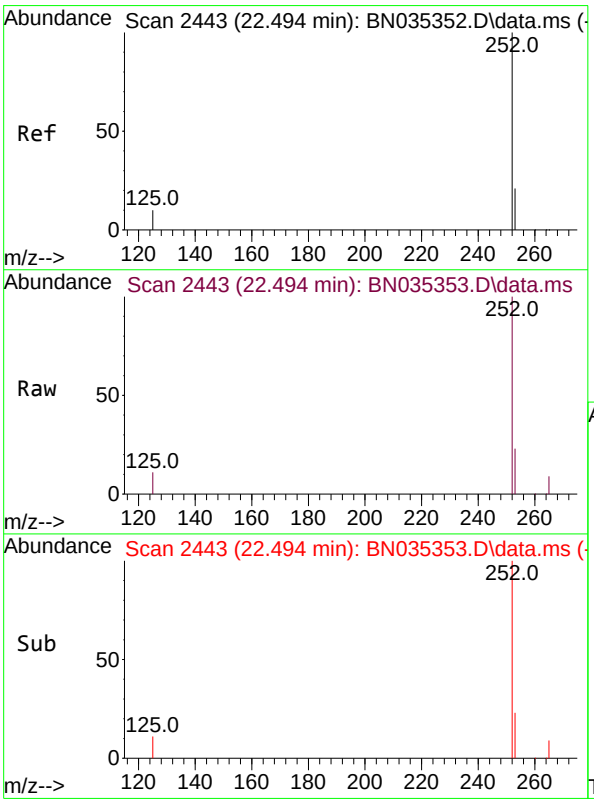
#37
Benzo(b)fluoranthene
Concen: 0.819 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 29491

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

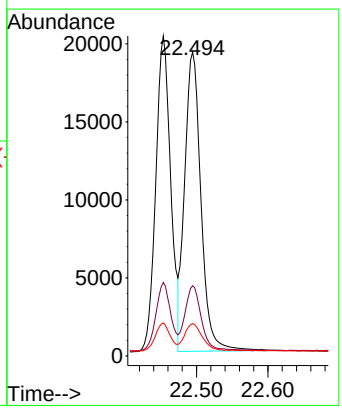


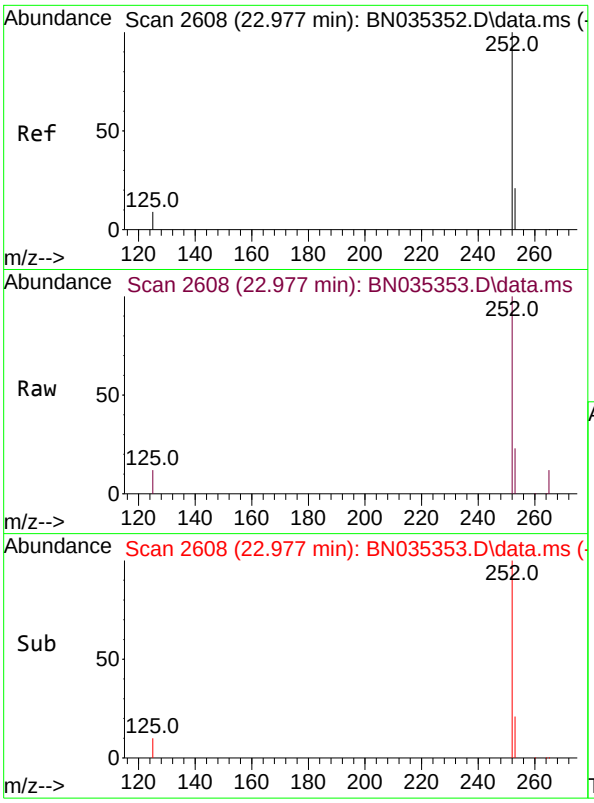


#38
Benzo(k)fluoranthene
Concen: 0.843 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:252 Resp: 30369

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



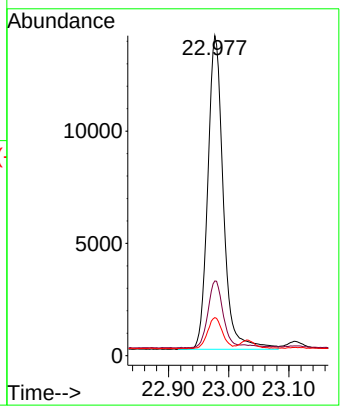


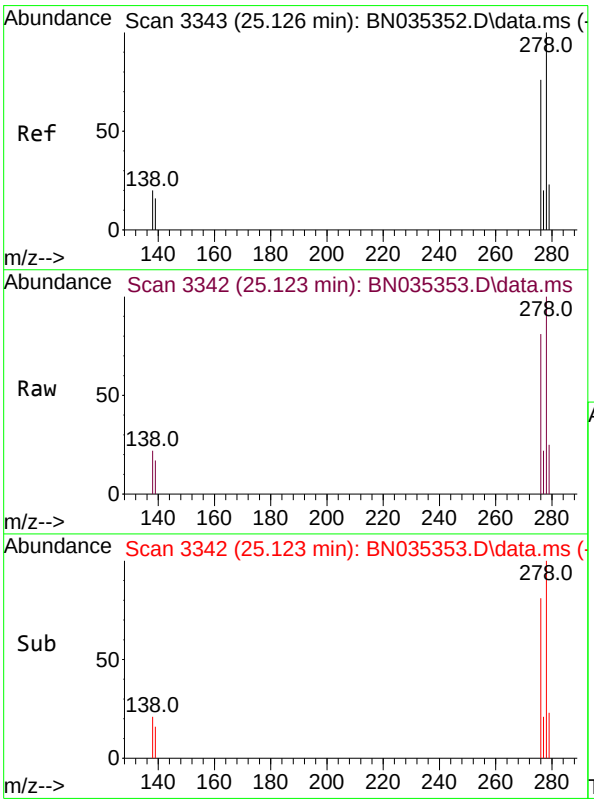
#39
Benzo(a)pyrene
Concen: 0.791 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 25053

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

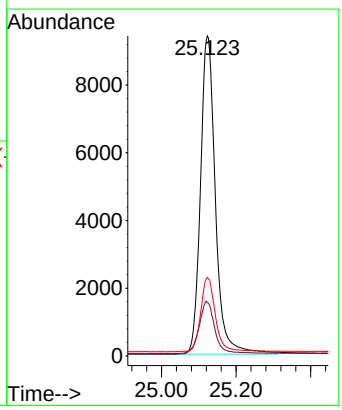


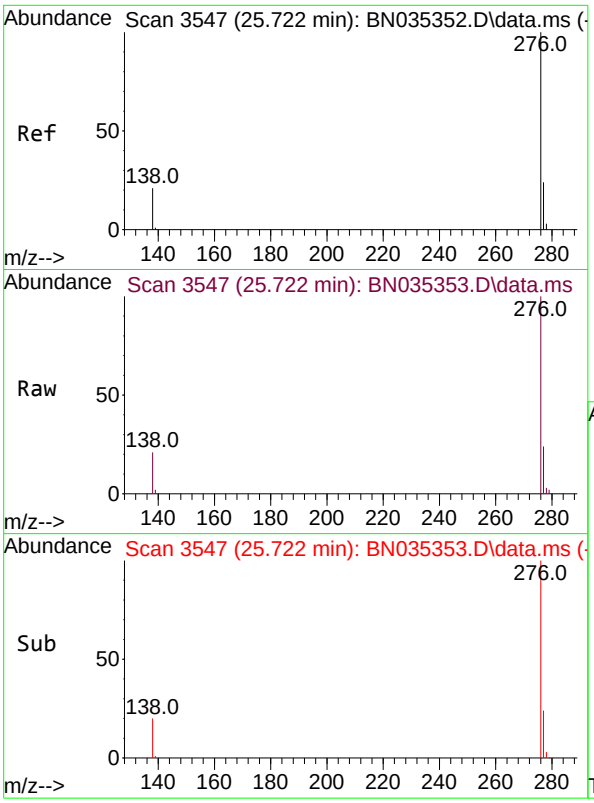


#40
Dibenzo(a,h)anthracene
Concen: 0.775 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Tgt Ion:278 Resp: 26222

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



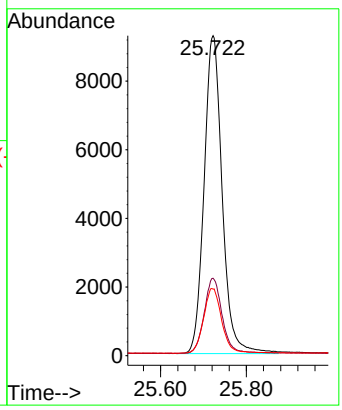


#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 27143

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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

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

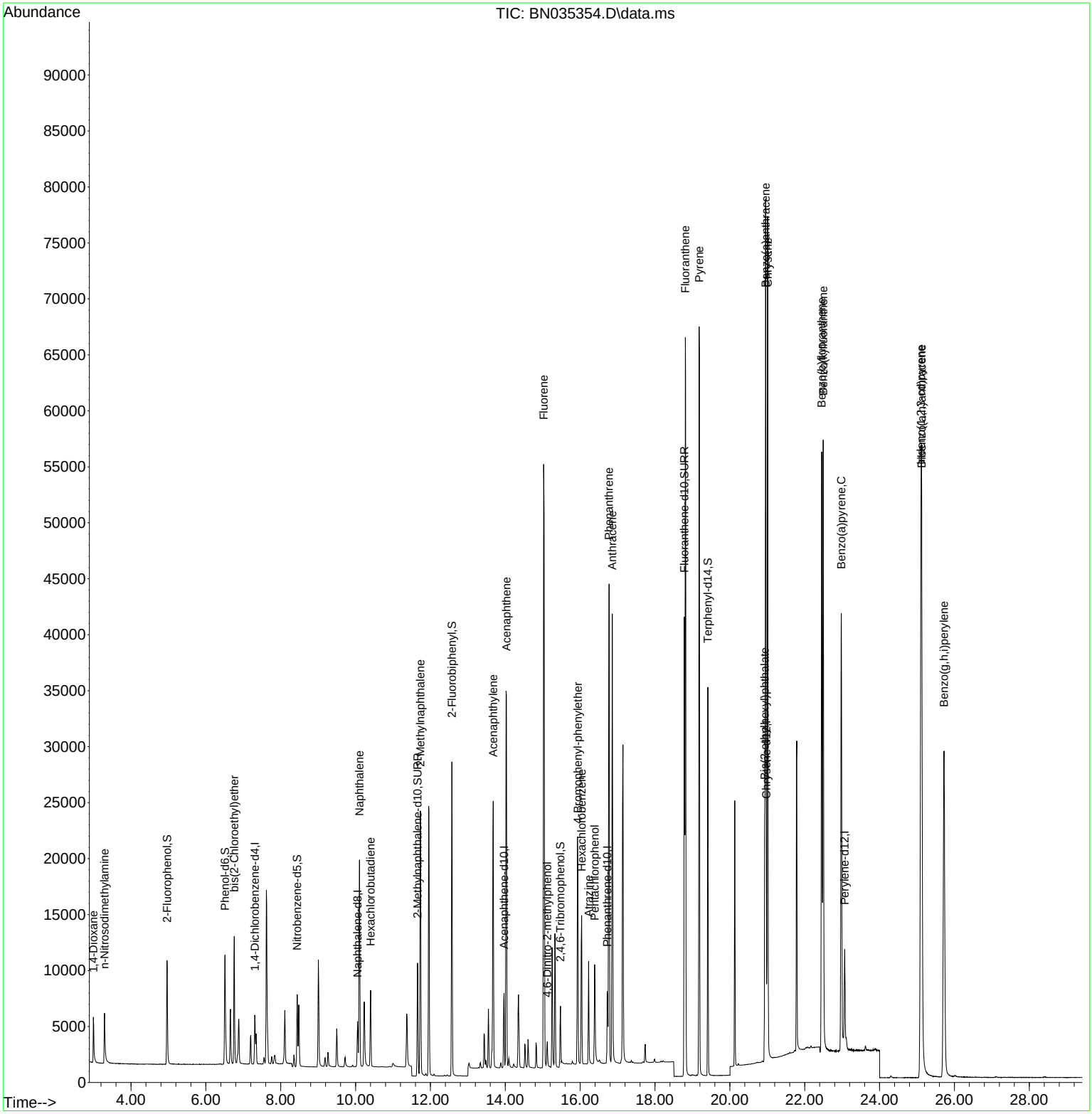
(#) = qualifier out of range (m) = manual integration (+) = signals summed

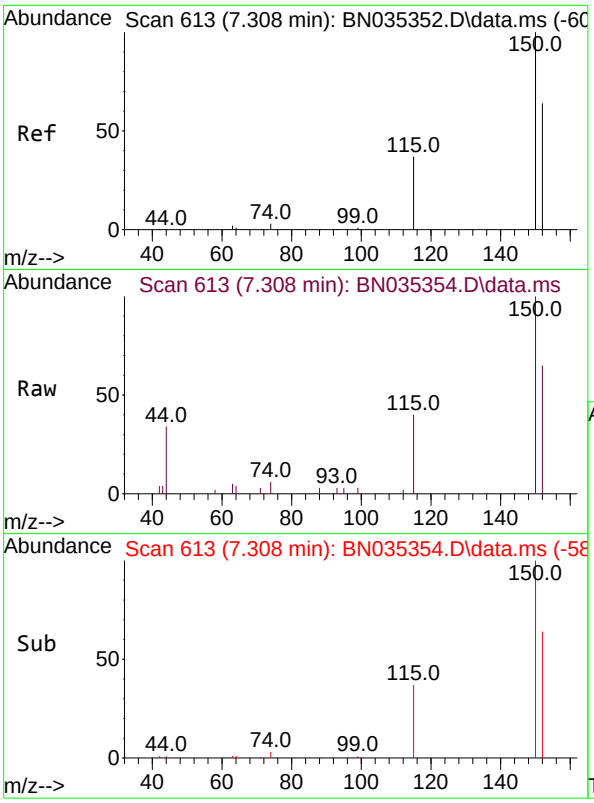
ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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



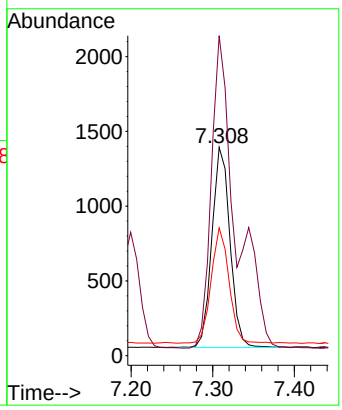


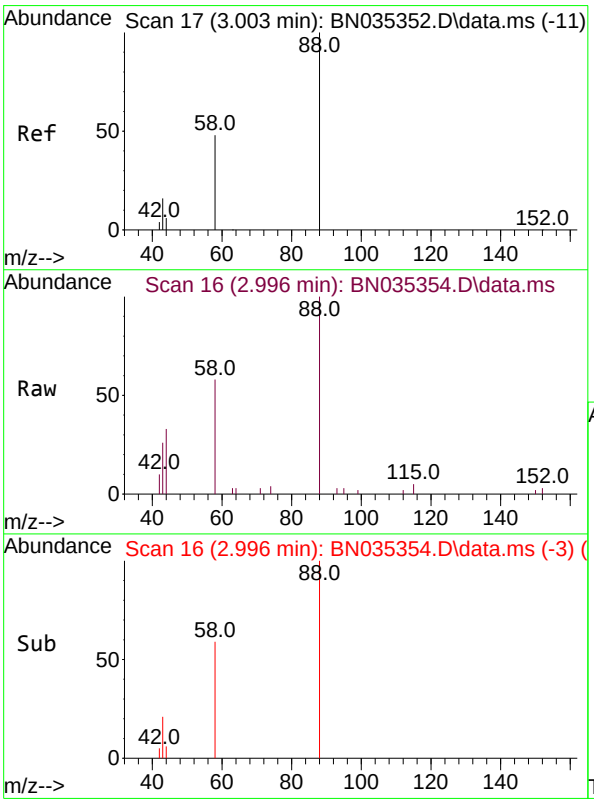
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 2053

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

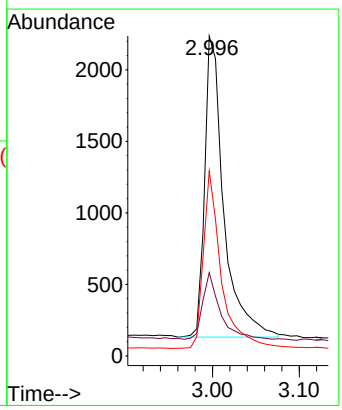


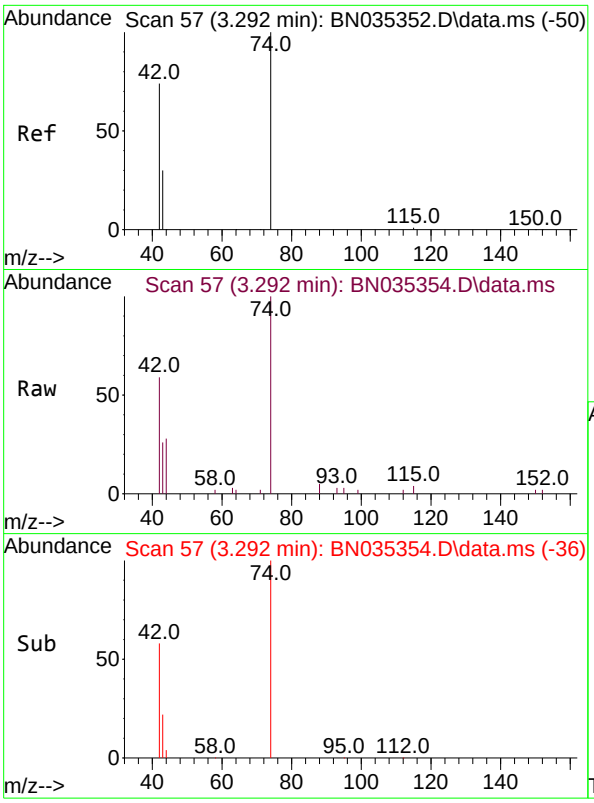


#2
1,4-Dioxane
Concen: 1.727 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 88 Resp: 3220

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



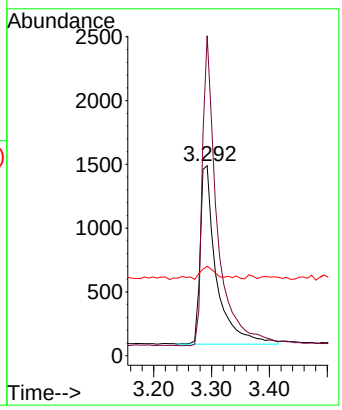


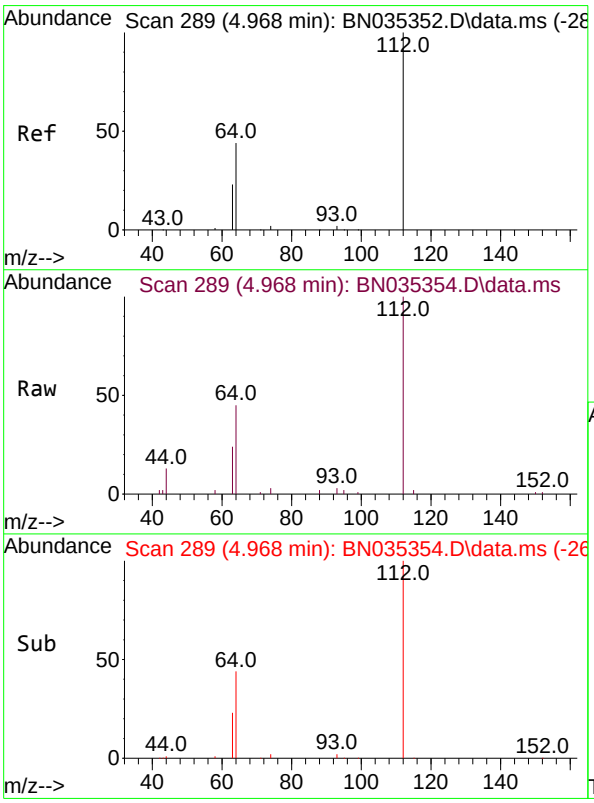
#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 2729

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

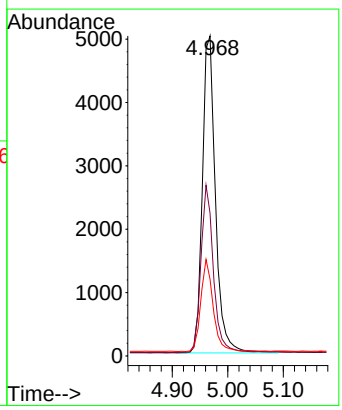


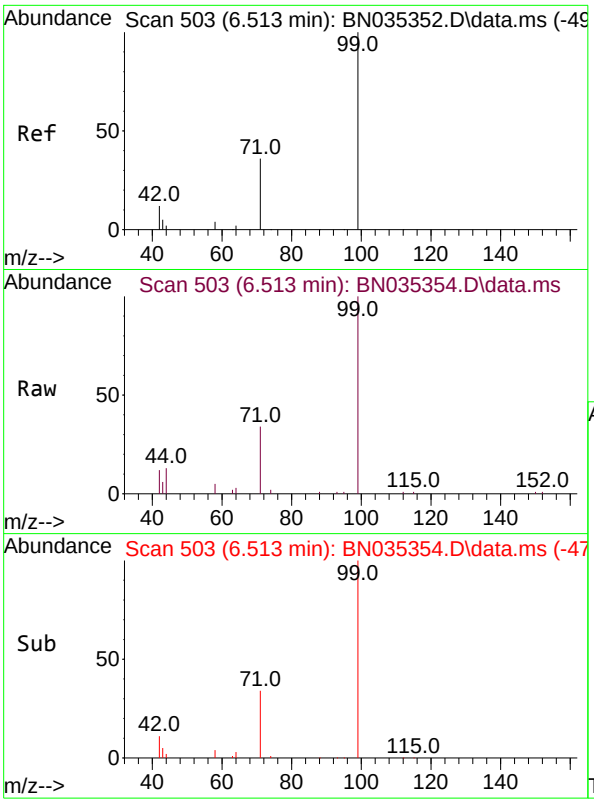


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:112 Resp: 8194

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



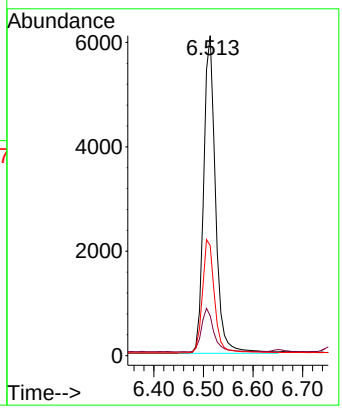


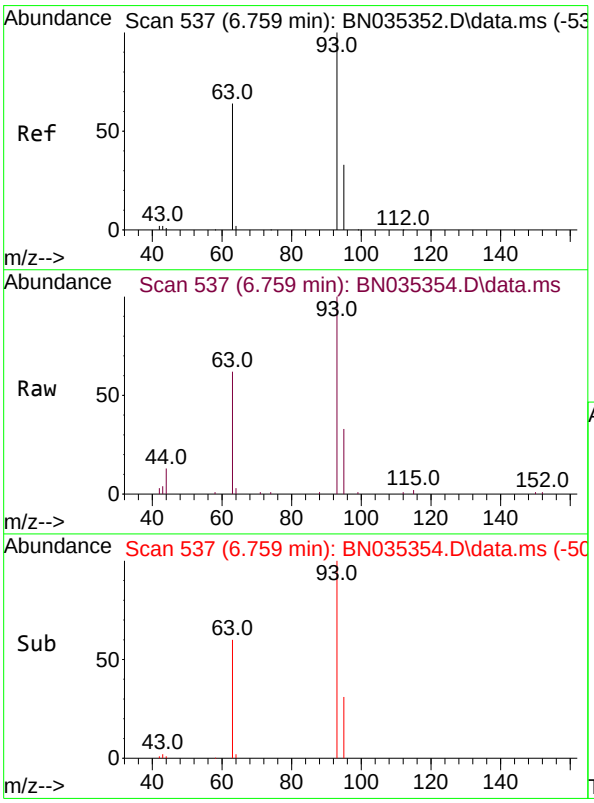
#5
Phenol-d6
Concen: 1.552 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 10139

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

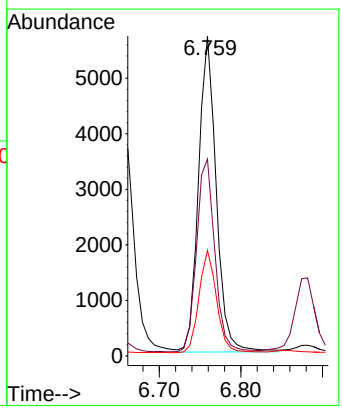


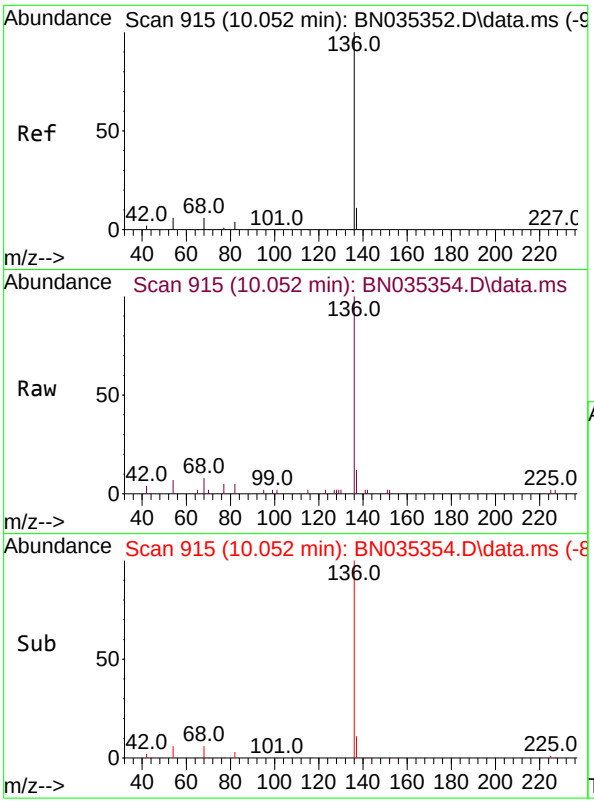


#6
bis(2-Chloroethyl)ether
Concen: 1.759 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 93 Resp: 8629

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



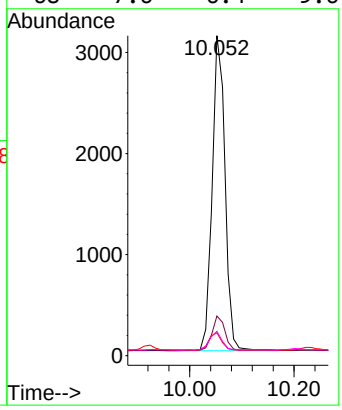


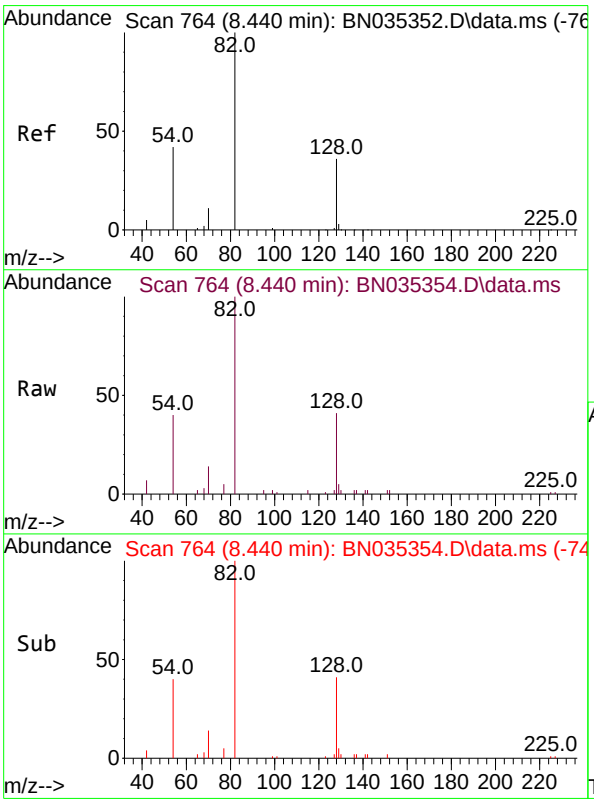
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 5309

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

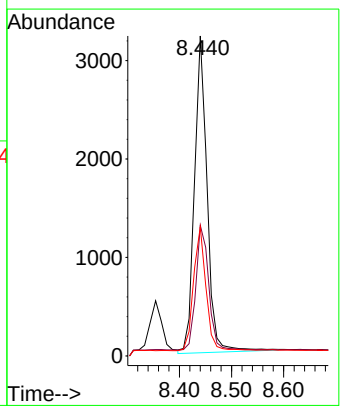


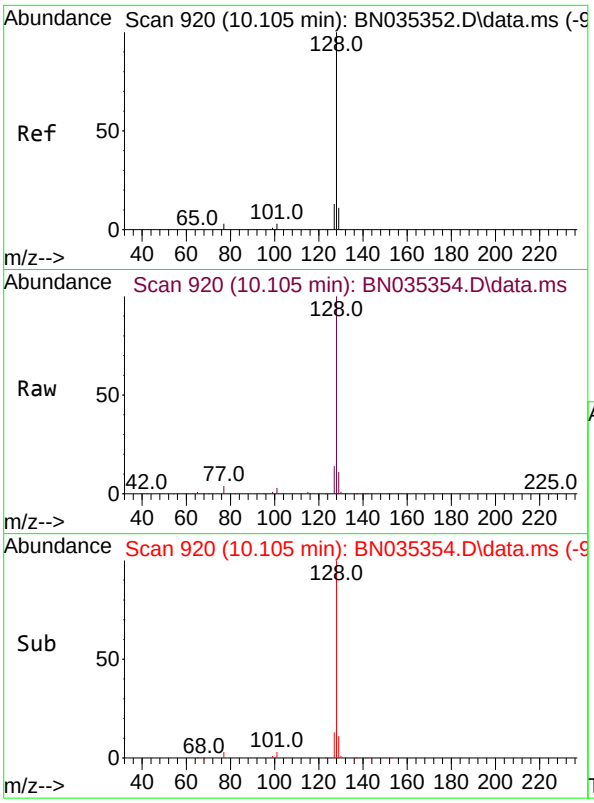


#8
Nitrobenzene-d5
Concen: 1.179 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

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



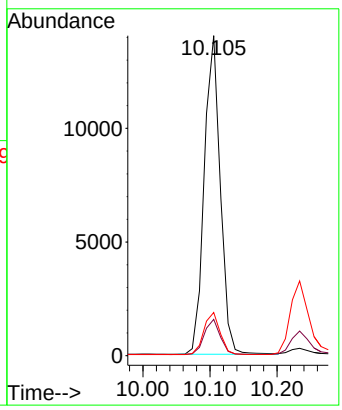


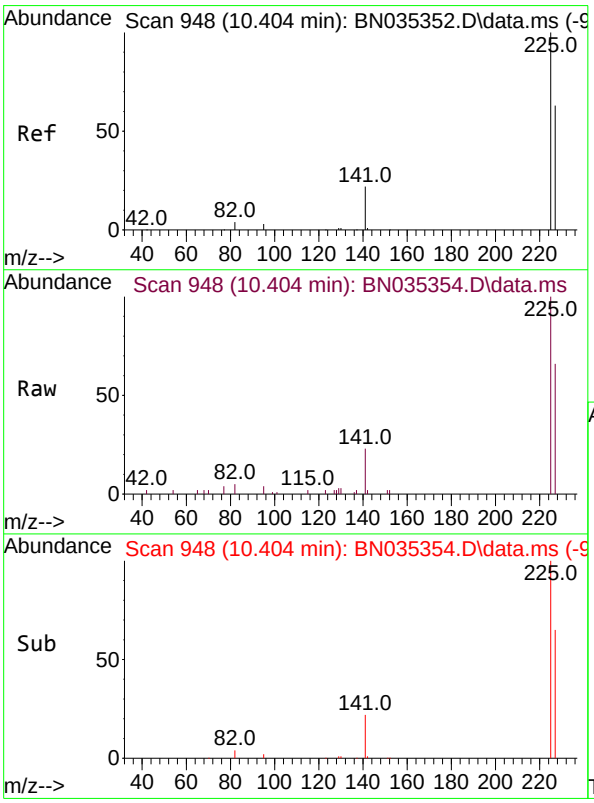
#9
Naphthalene
Concen: 1.680 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 23280

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

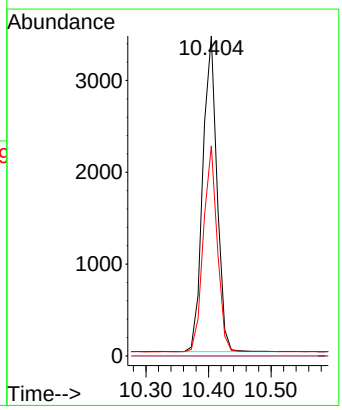


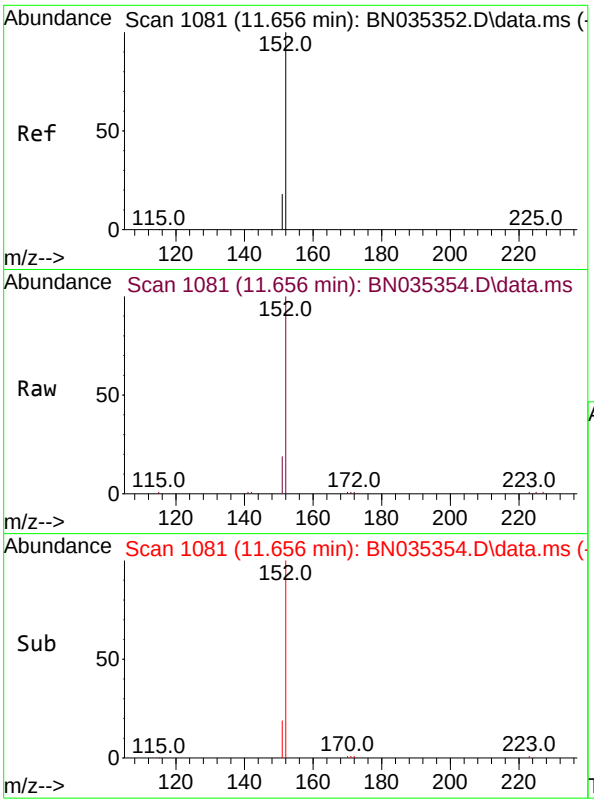


#10
Hexachlorobutadiene
Concen: 1.331 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:225 Resp: 5409

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



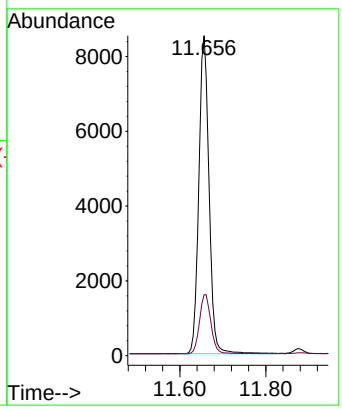


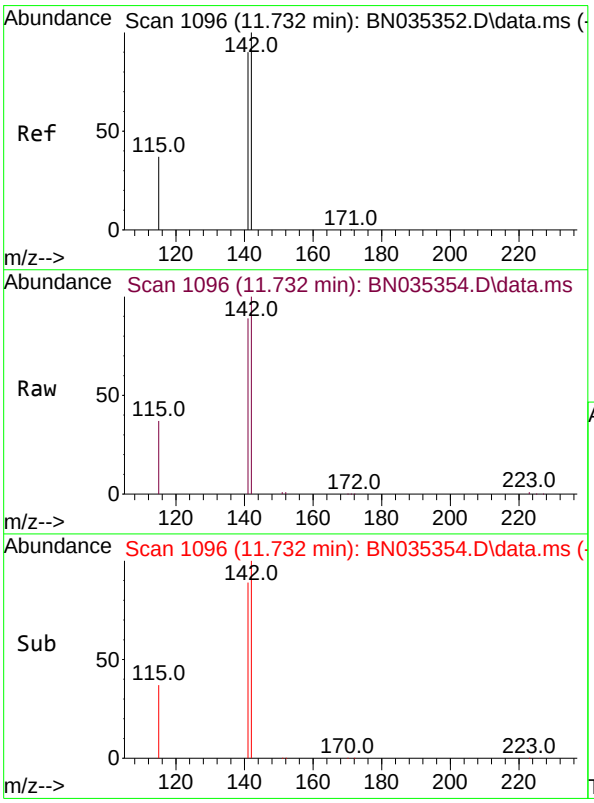
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 13988

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

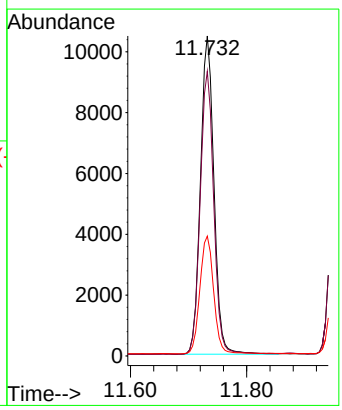


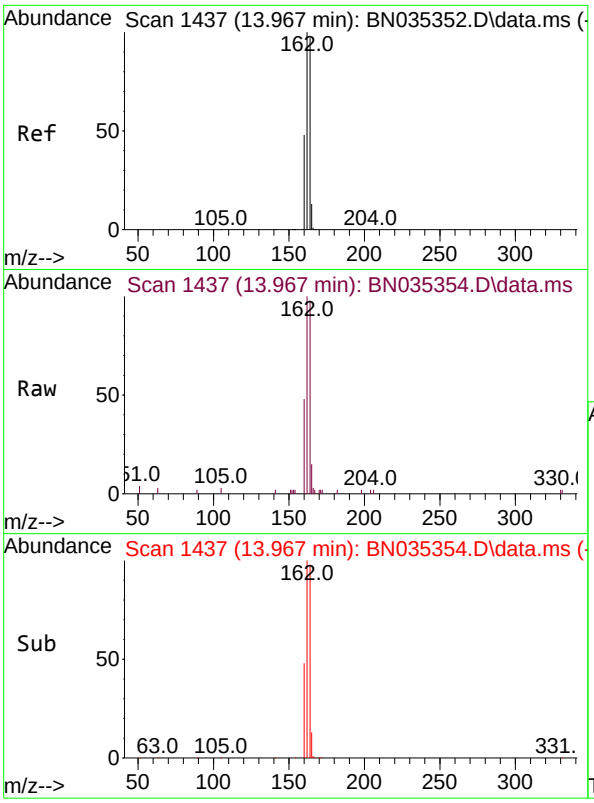


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:142 Resp: 16881

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



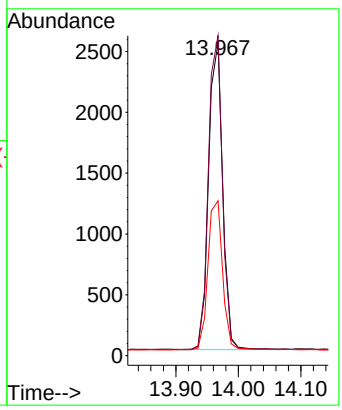


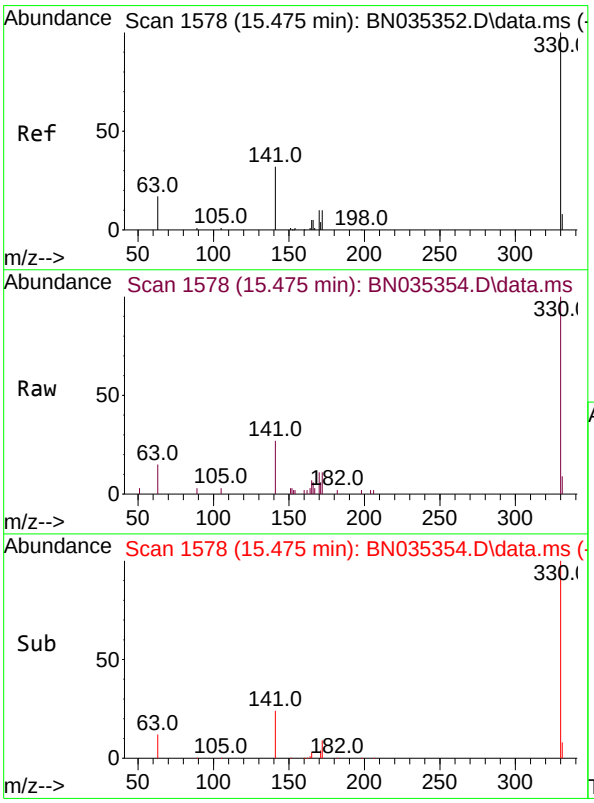
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 3942

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

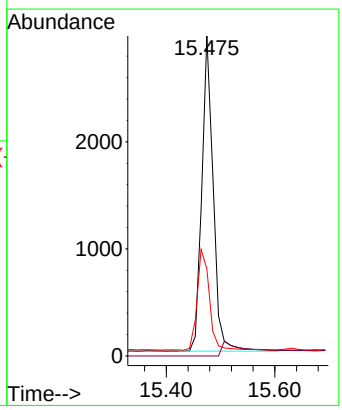


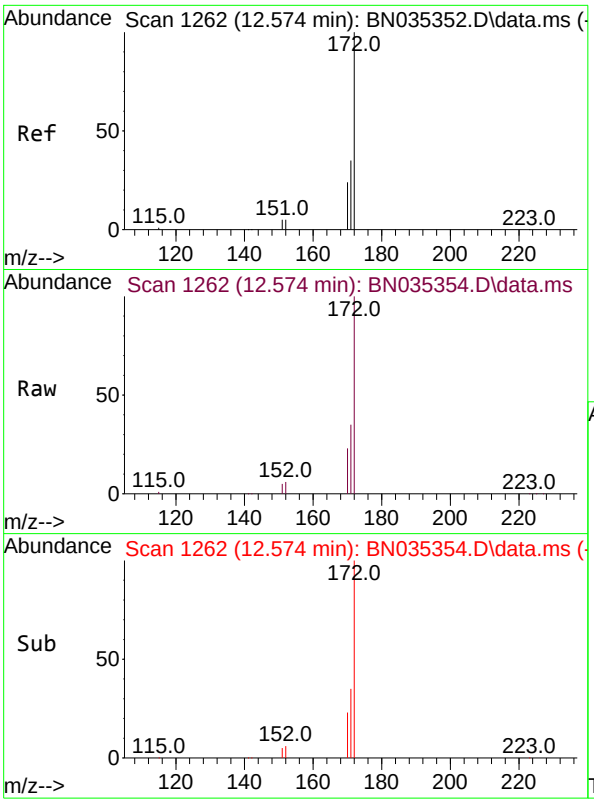


#14
2,4,6-Tribromophenol
Concen: 1.623 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:330 Resp: 4615

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



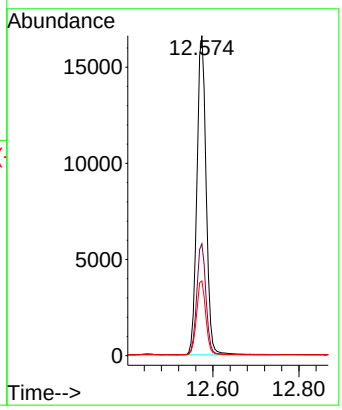


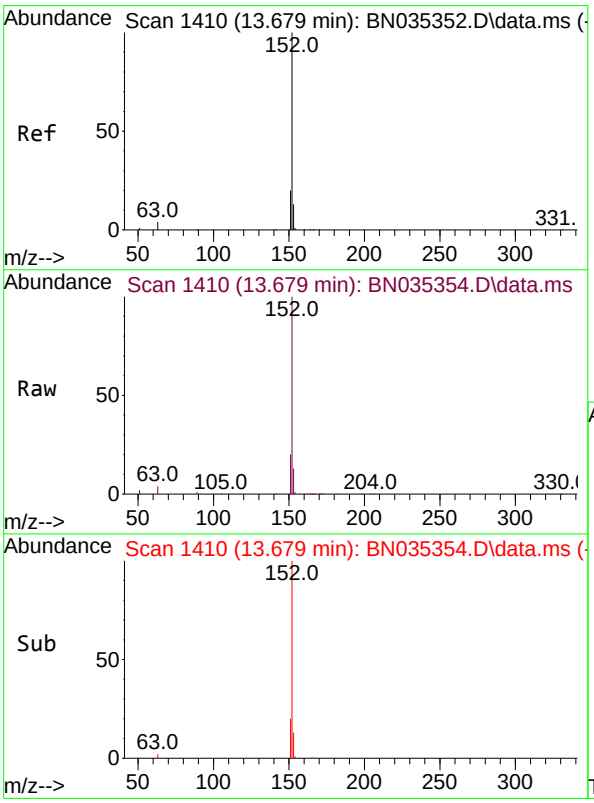
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 24687

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

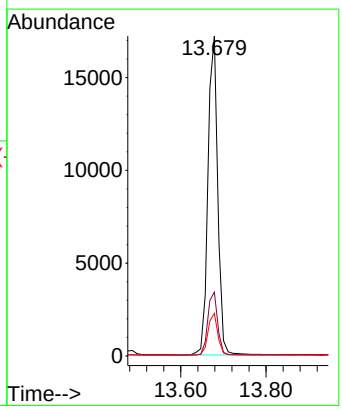


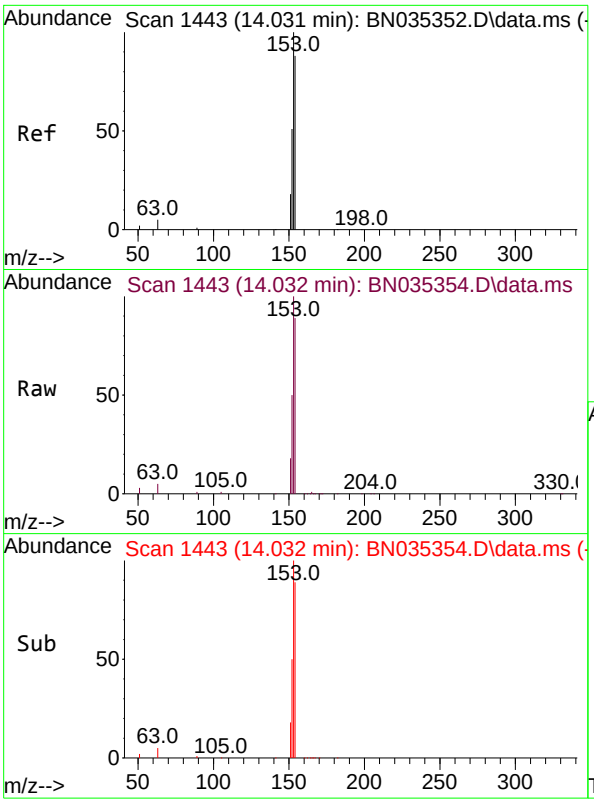


#16
Acenaphthylene
Concen: 1.626 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:152 Resp: 27389

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



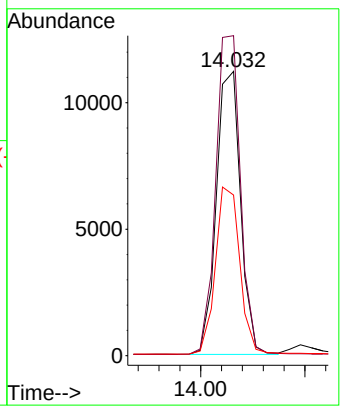


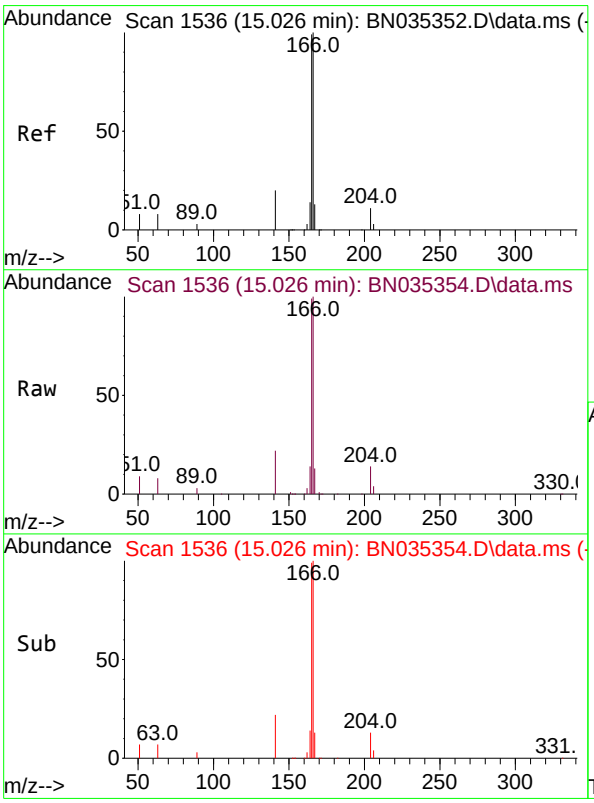
#17
Acenaphthene
Concen: 1.636 ng
RT: 14.032 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 18061

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

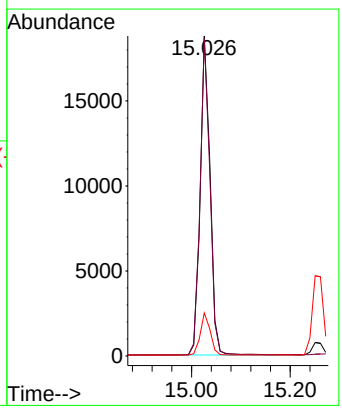


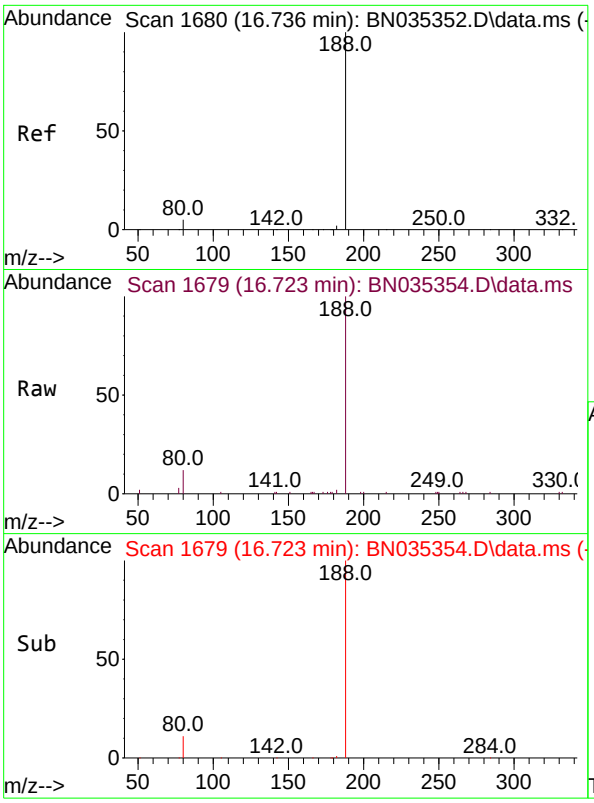


#18
Fluorene
Concen: 1.604 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:166 Resp: 26044

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



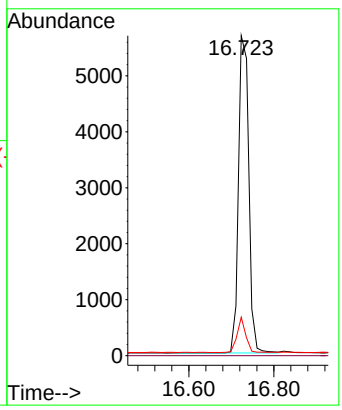


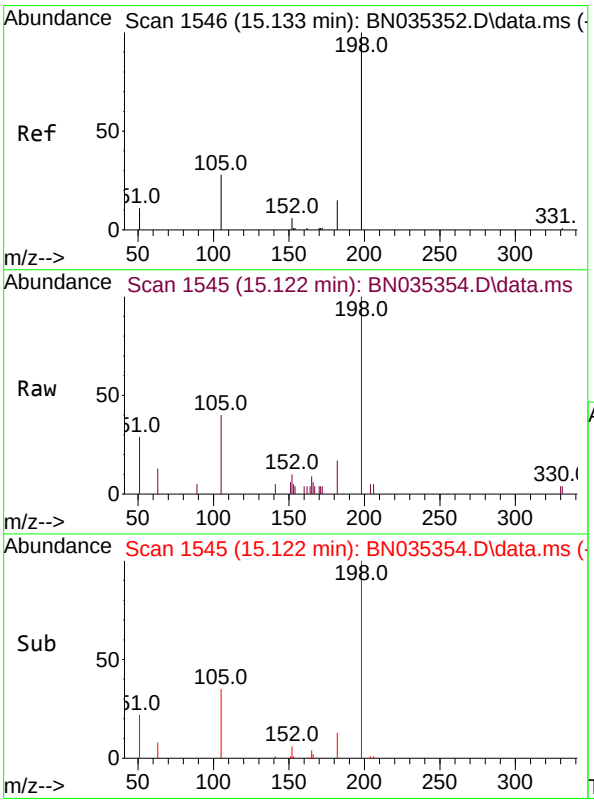
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 9517

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

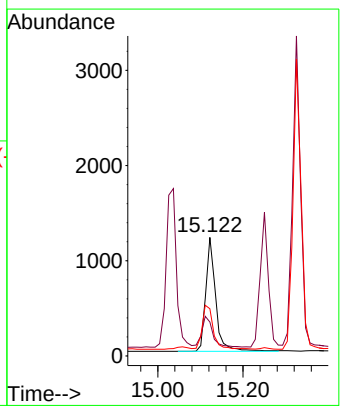


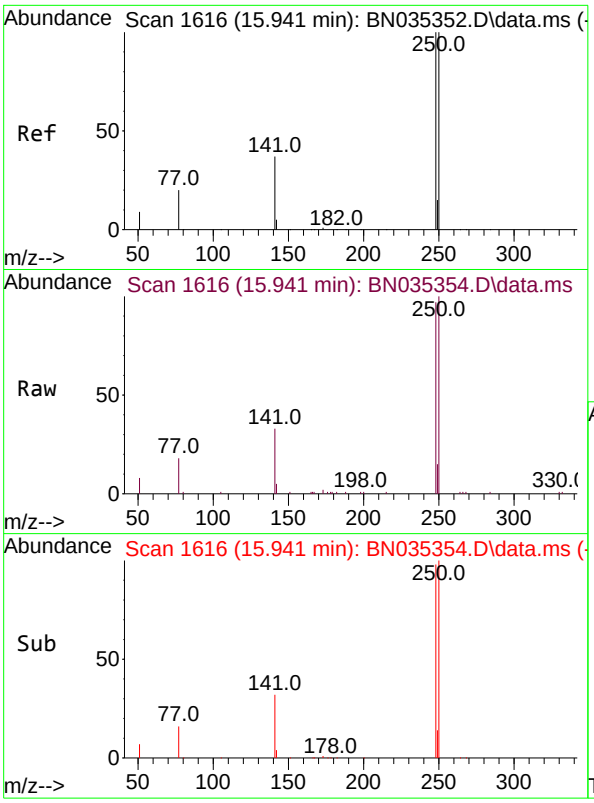


#20
4,6-Dinitro-2-methylphenol
Concen: 0.983 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.011 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:198 Resp: 1947

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



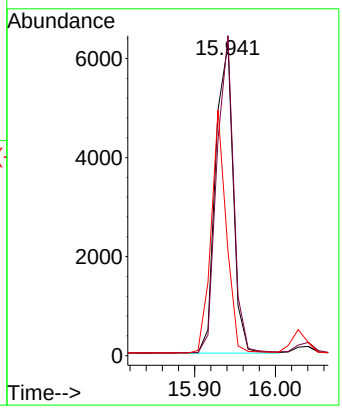


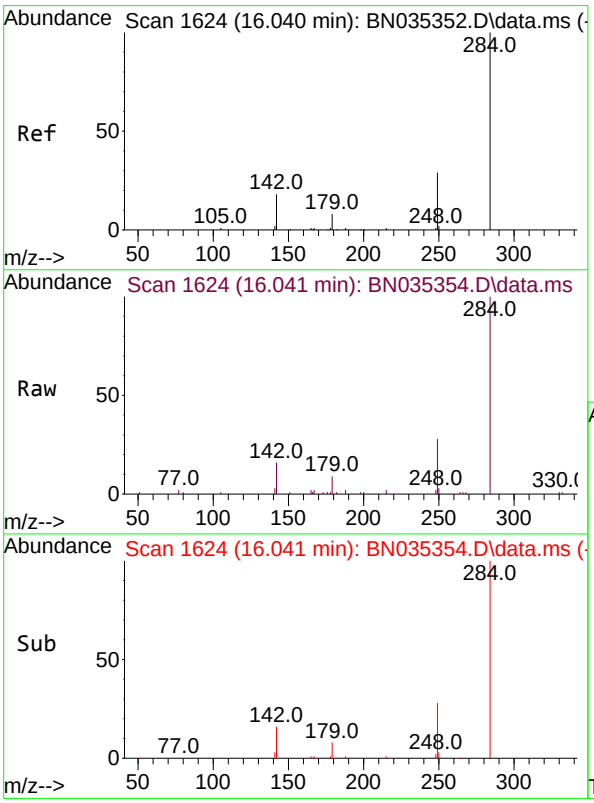
#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 9493

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

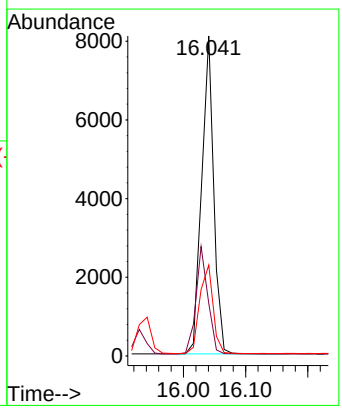


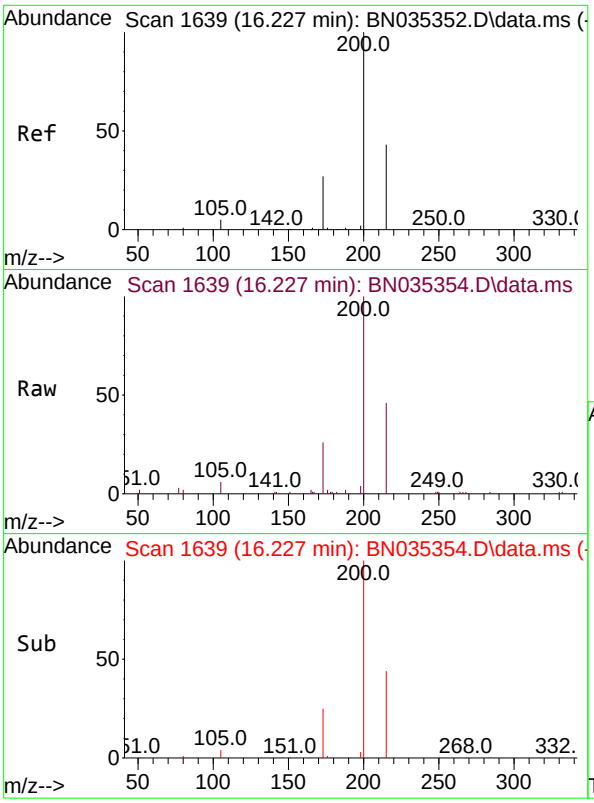


#22
Hexachlorobenzene
Concen: 1.743 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:284 Resp: 10969

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



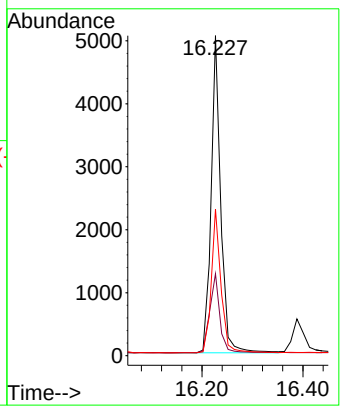


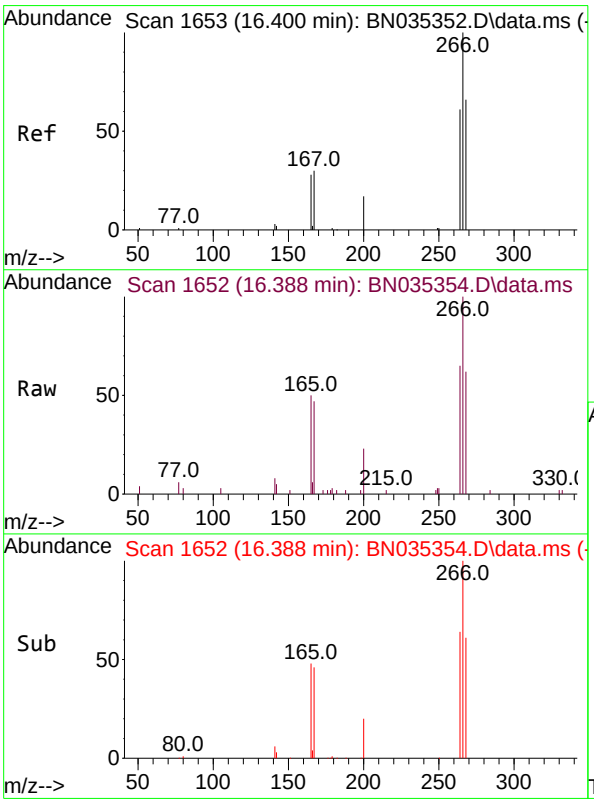
#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 6644

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

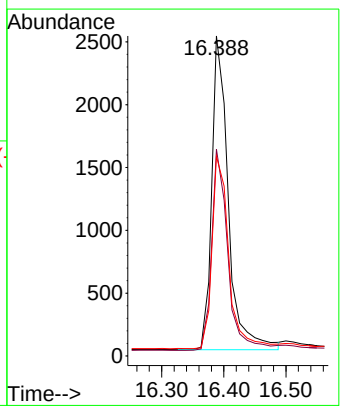


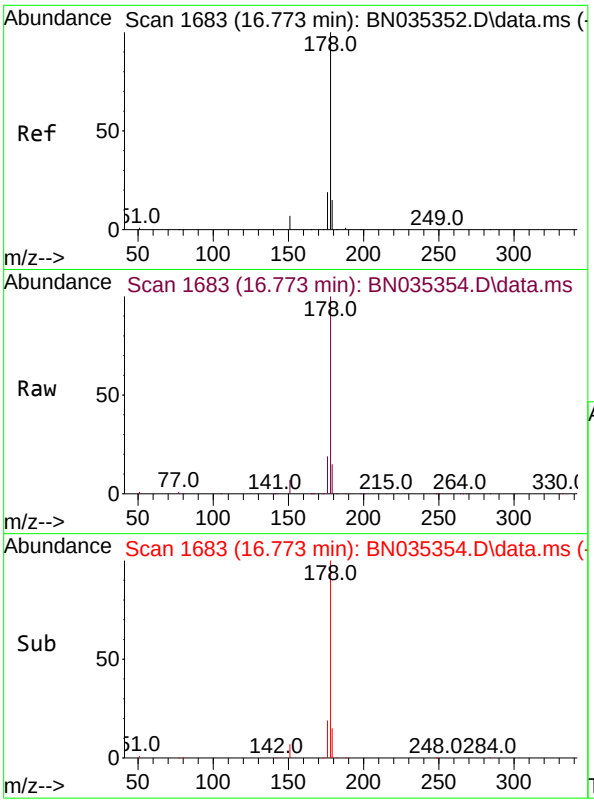


#24
Pentachlorophenol
Concen: 1.571 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:266 Resp: 4618

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



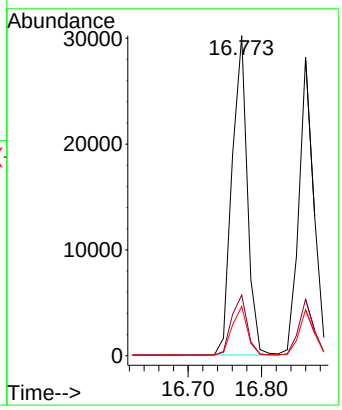


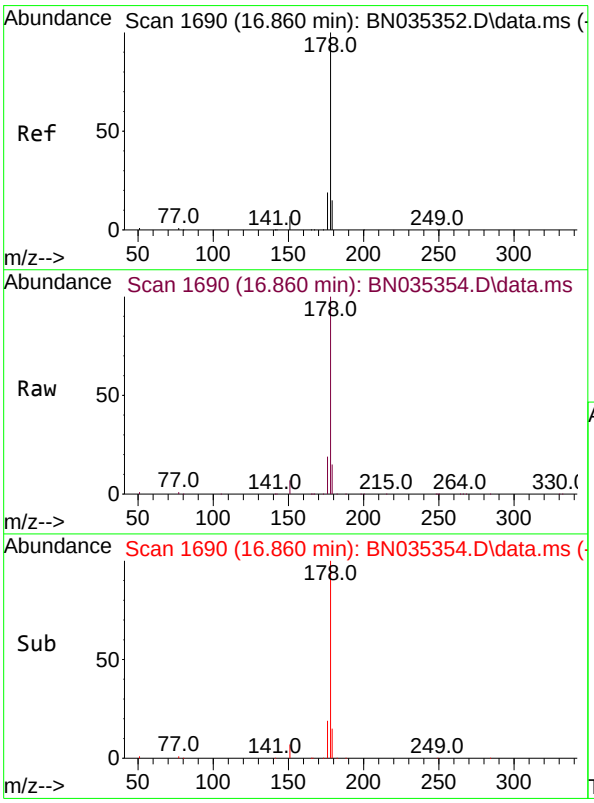
#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 43698

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

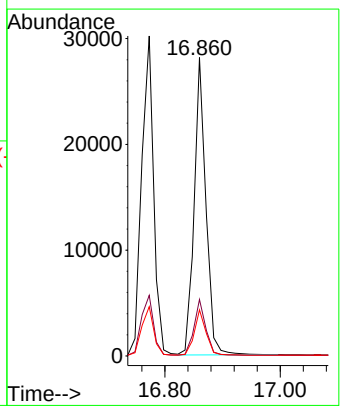


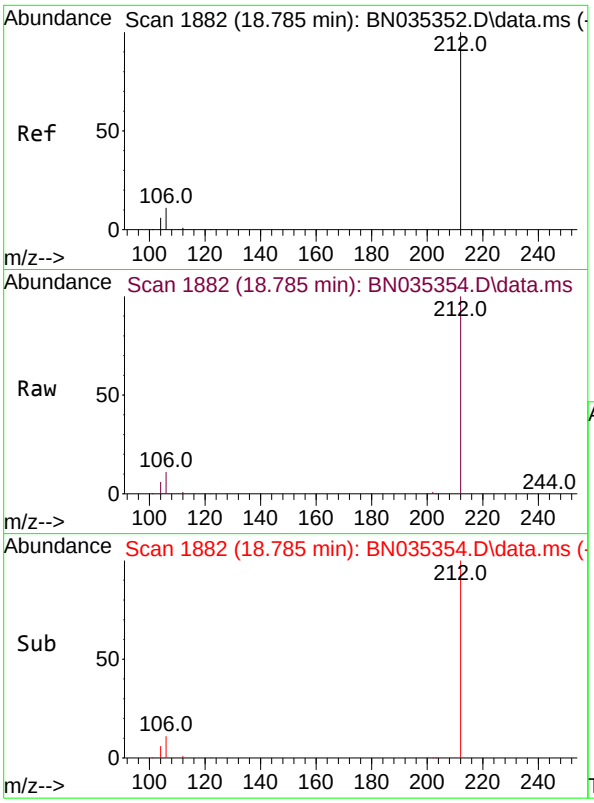


#26
Anthracene
Concen: 1.737 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:178 Resp: 39964

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



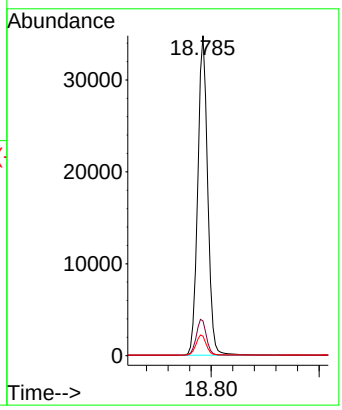


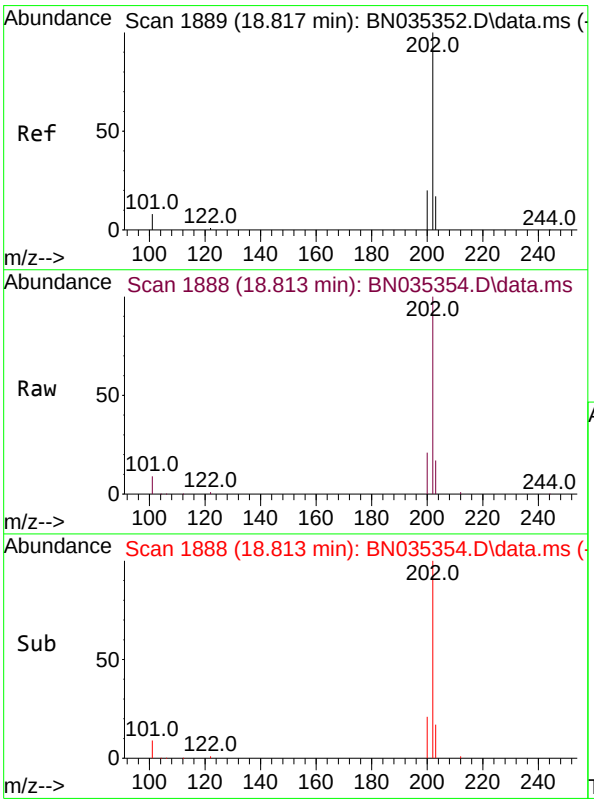
#27
Fluoranthene-d10
Concen: 1.521 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 44338

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

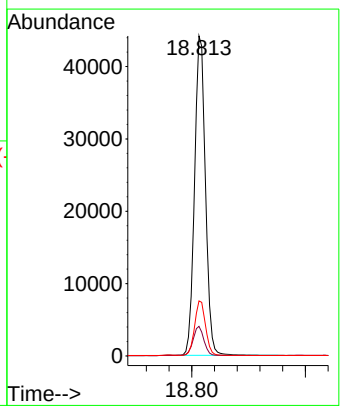


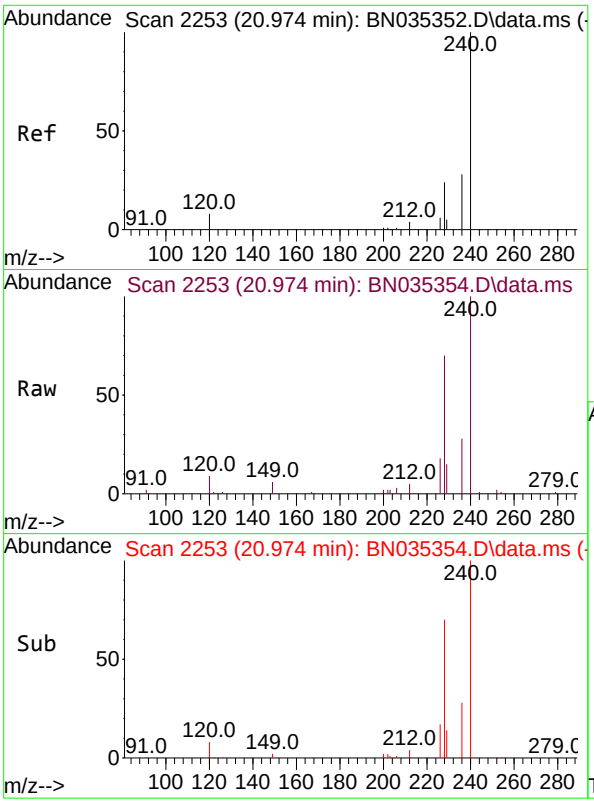


#28
Fluoranthene
Concen: 1.702 ng
RT: 18.813 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 58605

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



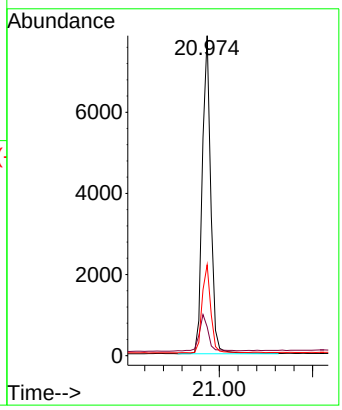


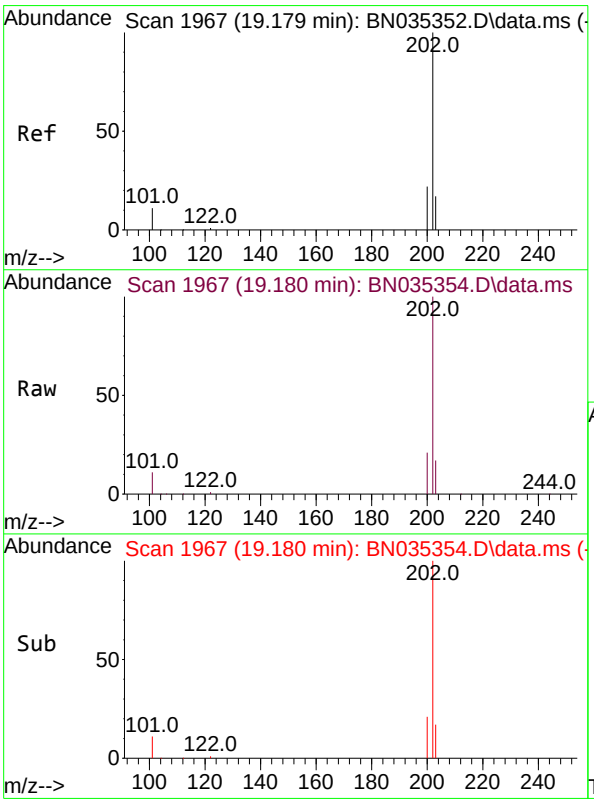
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 9905

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

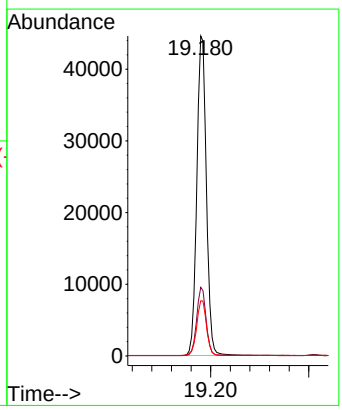


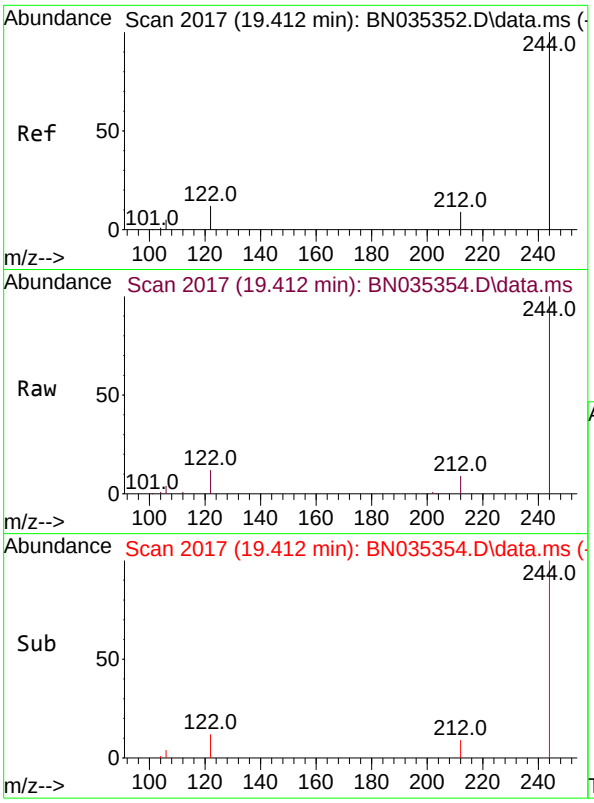


#30
Pyrene
Concen: 1.824 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:202 Resp: 60164

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



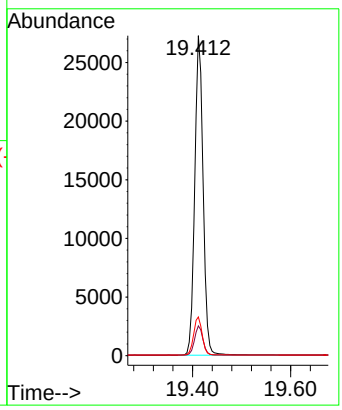


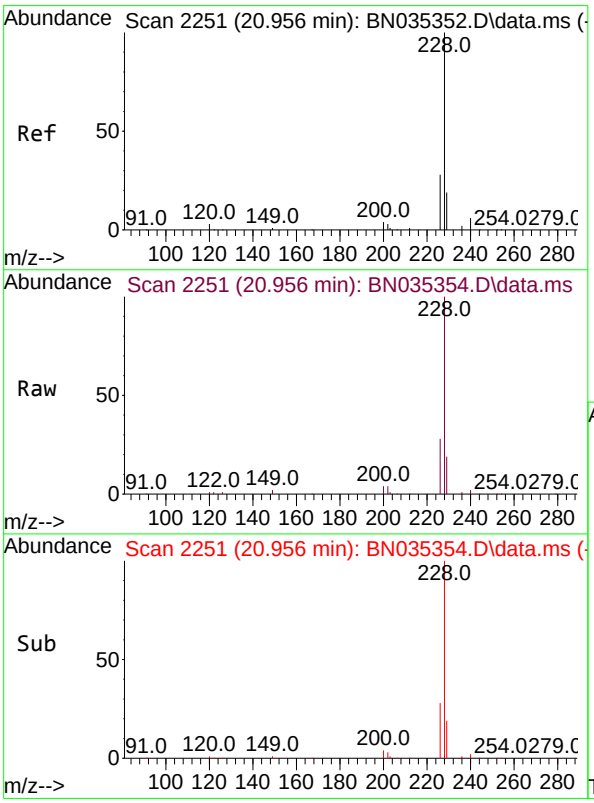
#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 32174

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

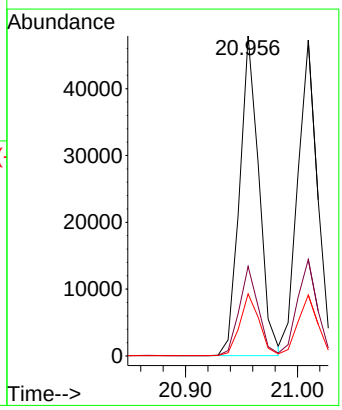


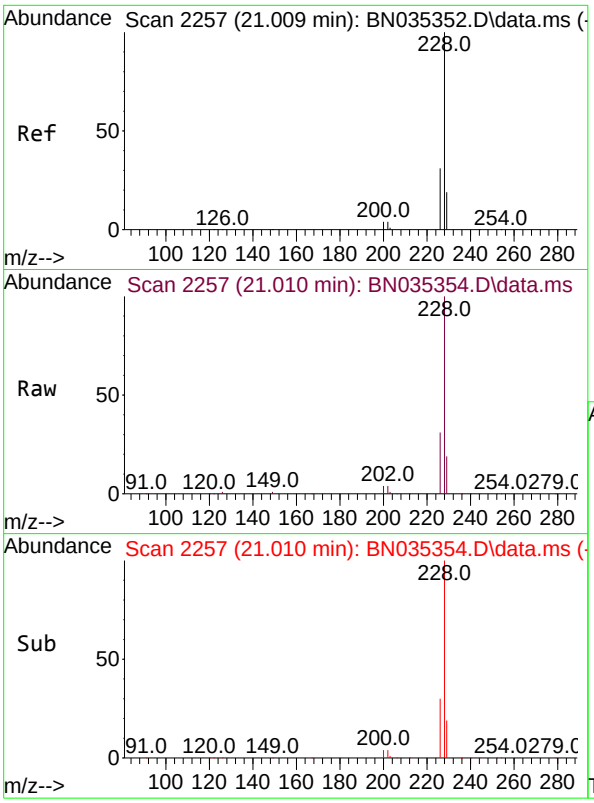


#32
Benzo(a)anthracene
Concen: 1.667 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:228 Resp: 57498

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



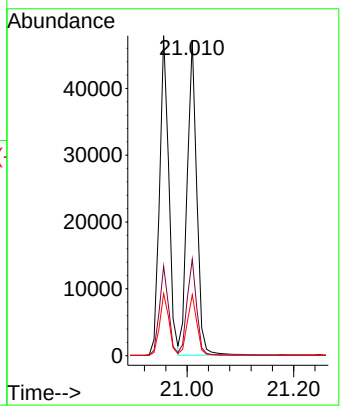


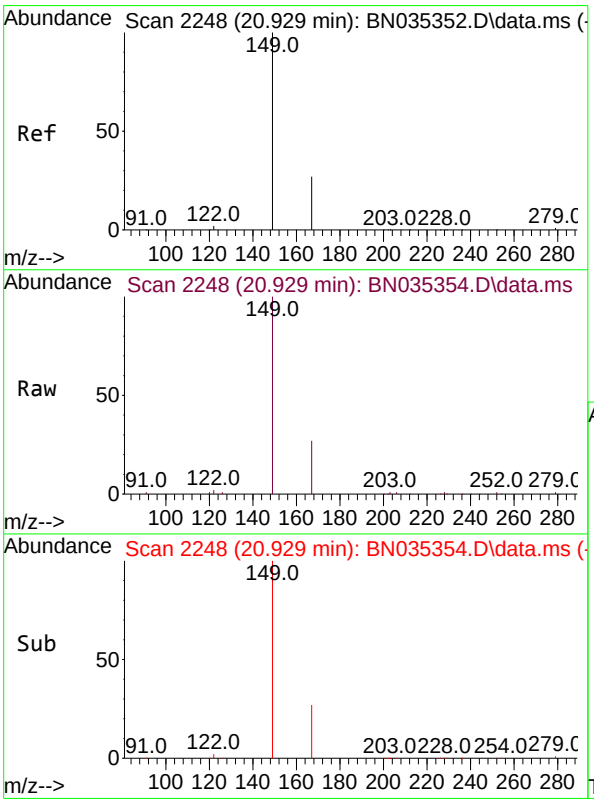
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 58919

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

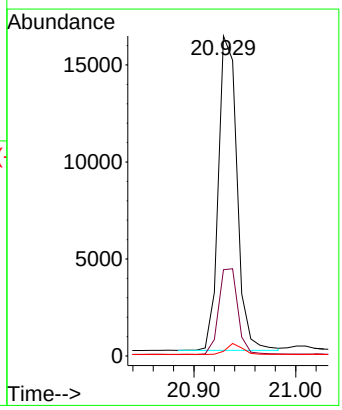


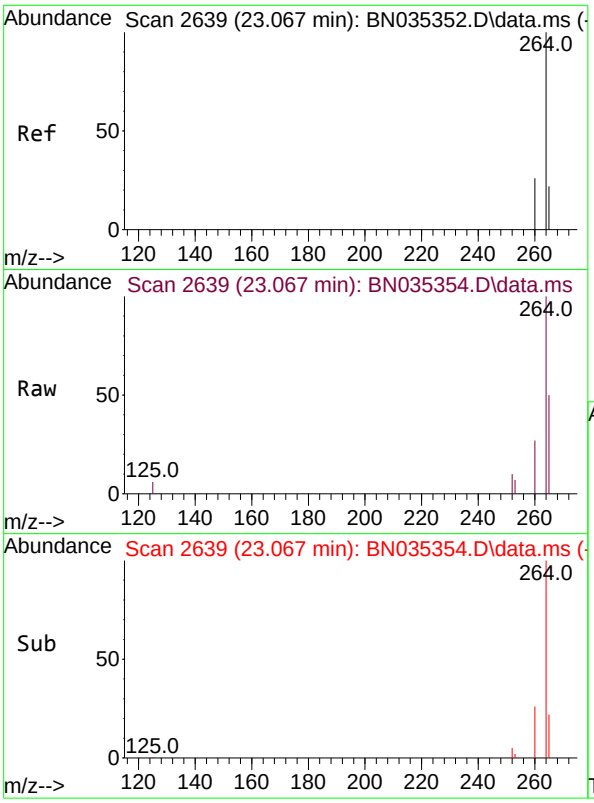


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.138 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:149 Resp: 20598

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



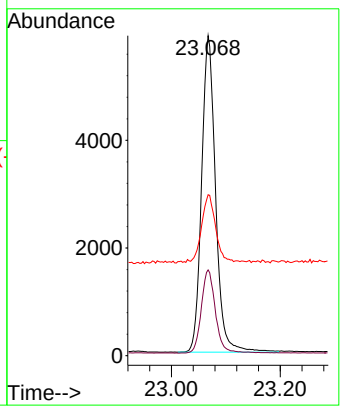


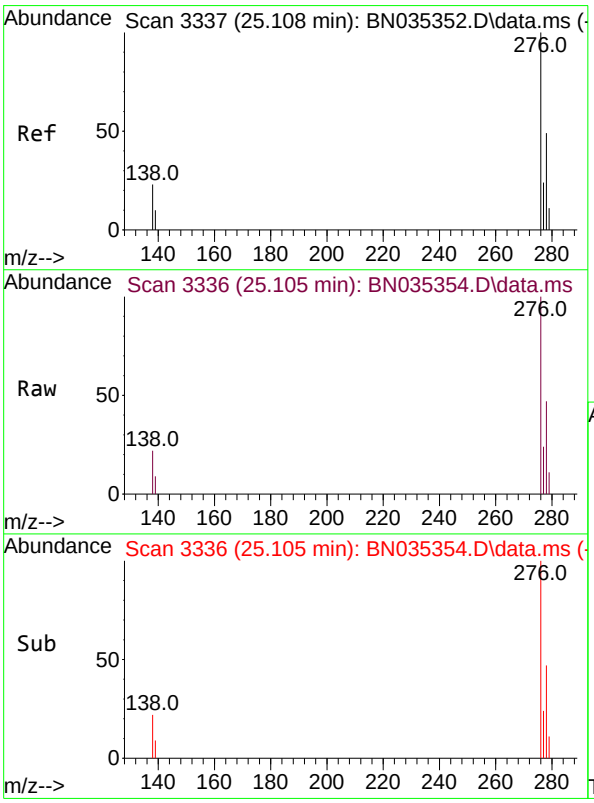
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10469

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

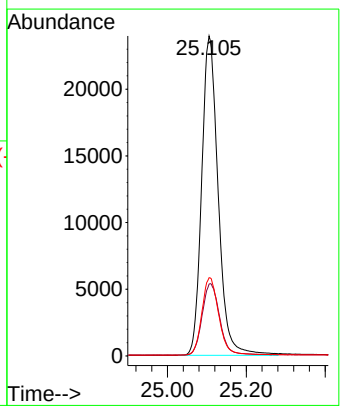


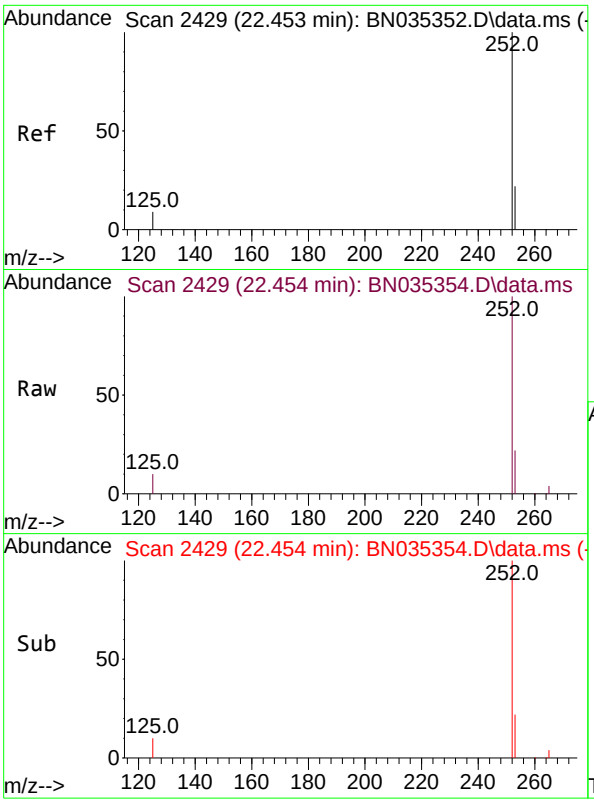


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.665 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:276 Resp: 69517

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



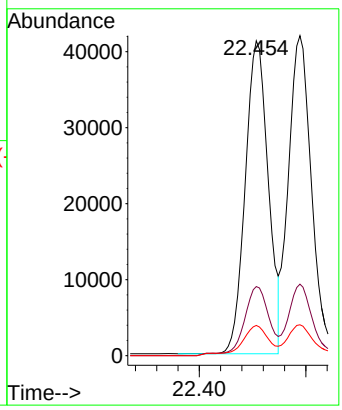


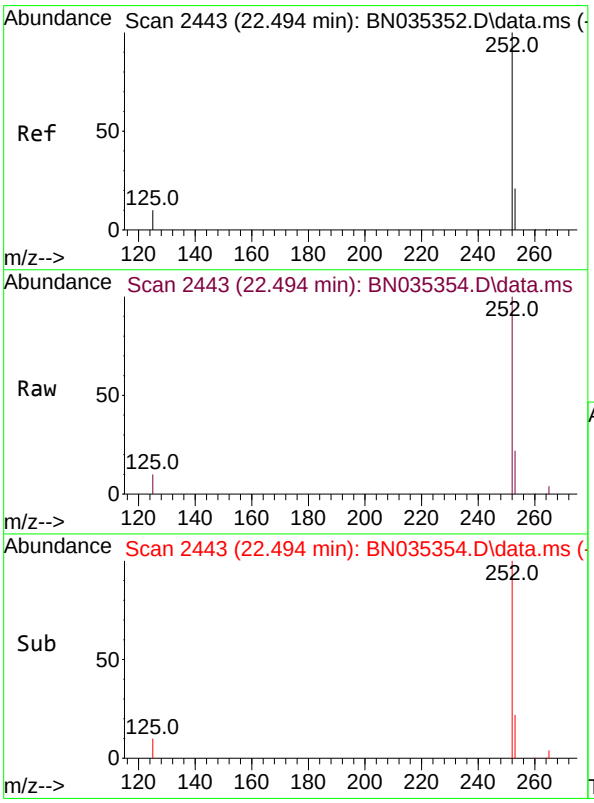
#37
Benzo(b)fluoranthene
Concen: 2.172 ng
RT: 22.454 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 76506

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

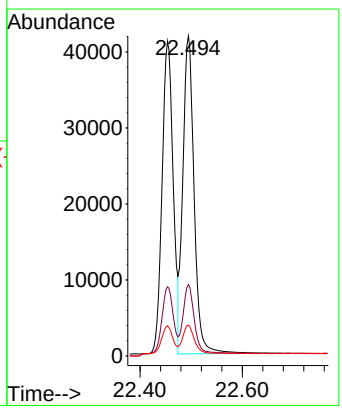


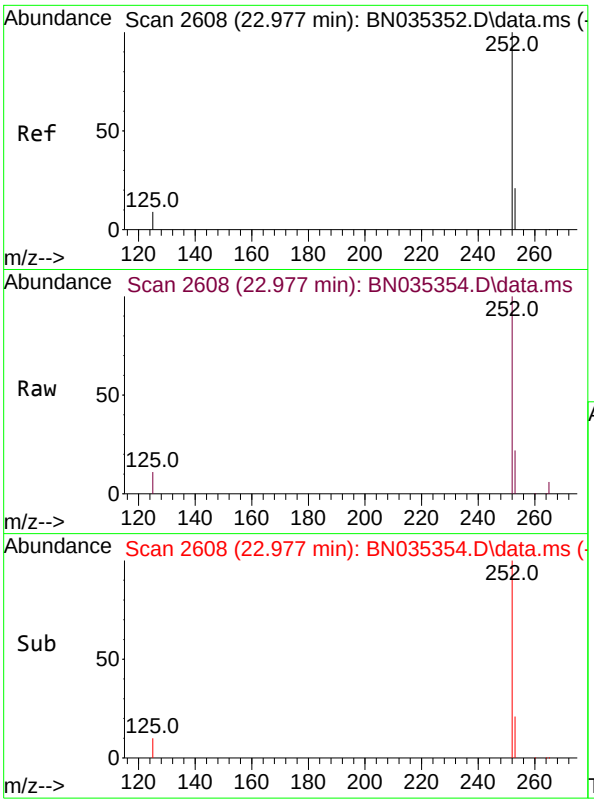


#38
Benzo(k)fluoranthene
Concen: 1.814 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:252 Resp: 63925

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



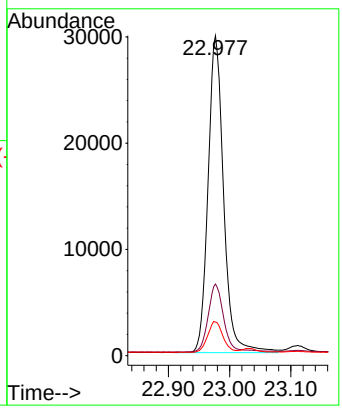


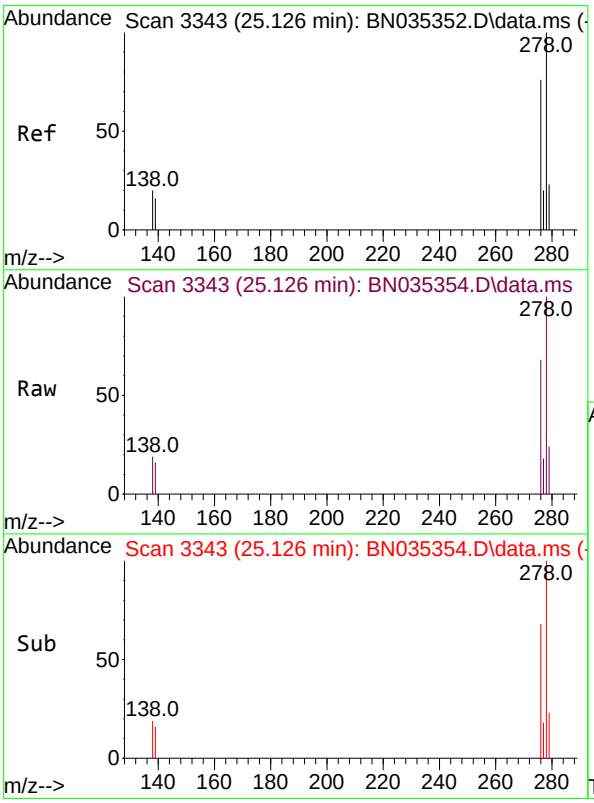
#39
Benzo(a)pyrene
Concen: 1.697 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 52595

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

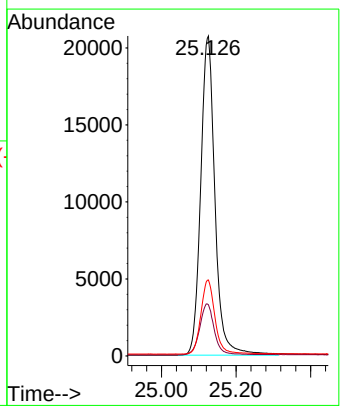


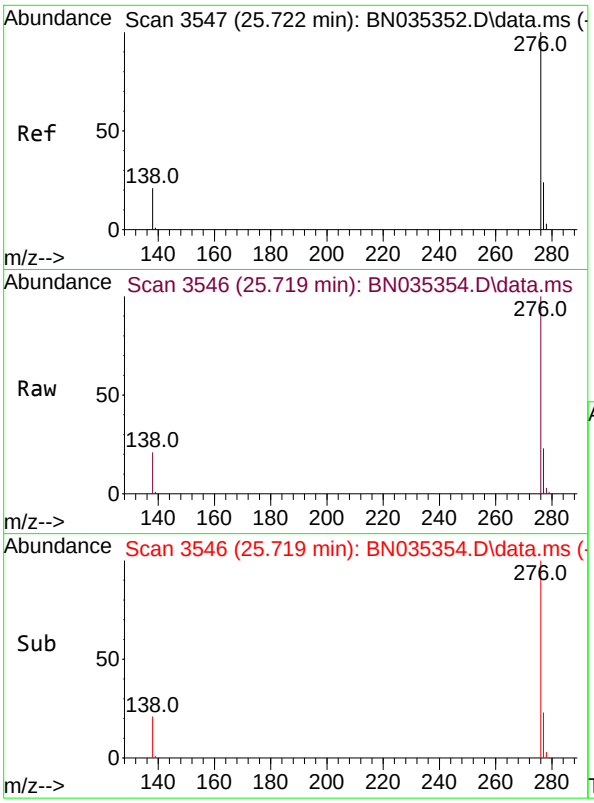


#40
Dibenzo(a,h)anthracene
Concen: 1.664 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Tgt Ion:278 Resp: 55068

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



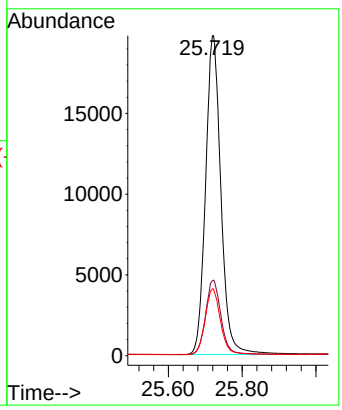


#41
Benzo(g,h,i)perylene
Concen: 1.618 ng
RT: 25.719 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 56947

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



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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

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

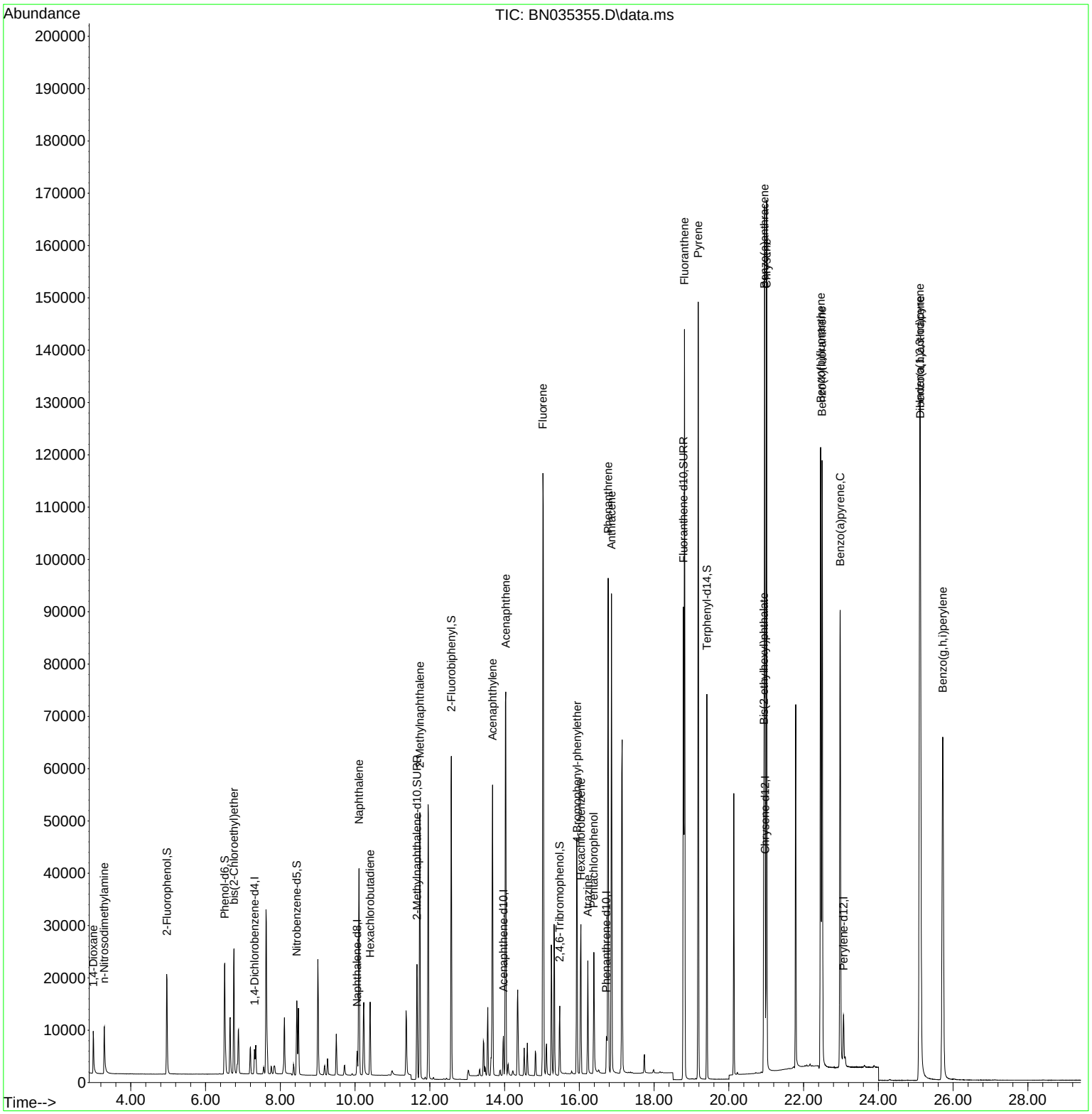
(#) = qualifier out of range (m) = manual integration (+) = signals summed

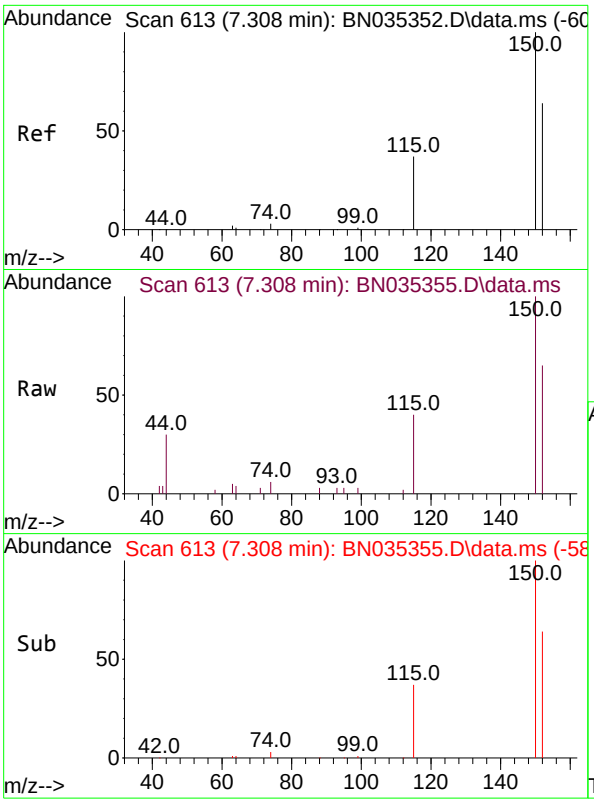
ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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



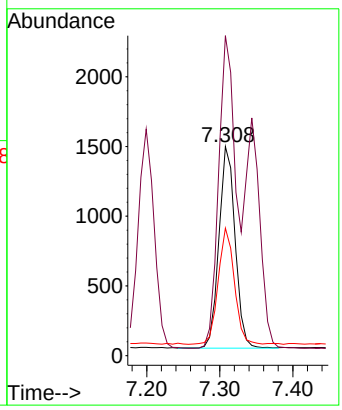


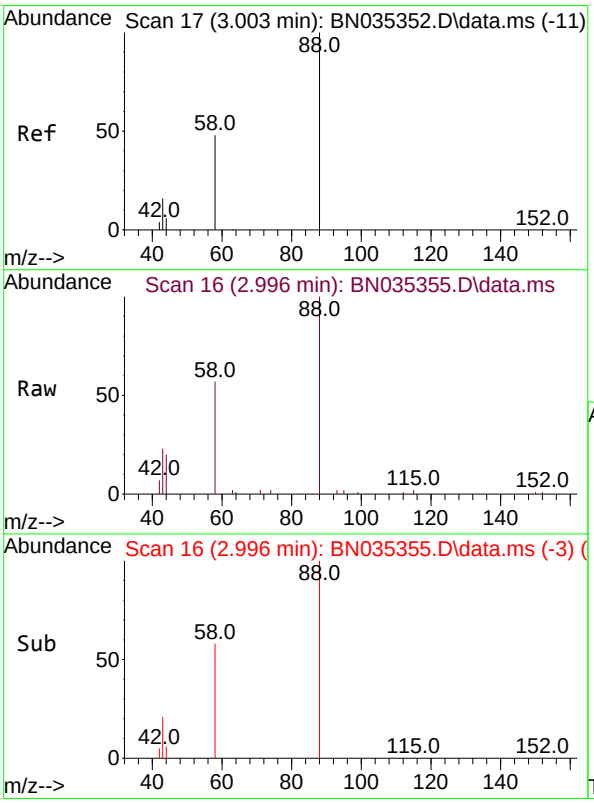
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2226

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

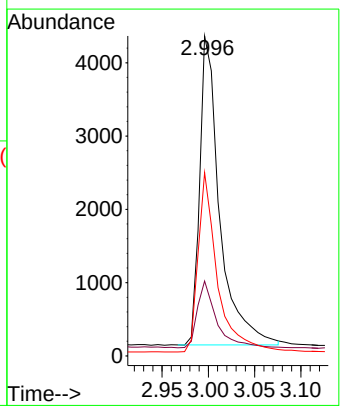


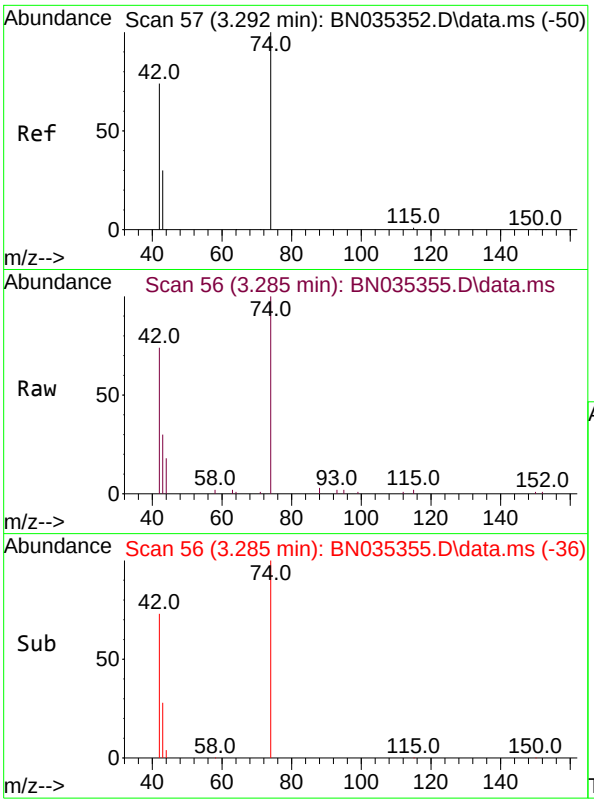


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 88 Resp: 6360

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



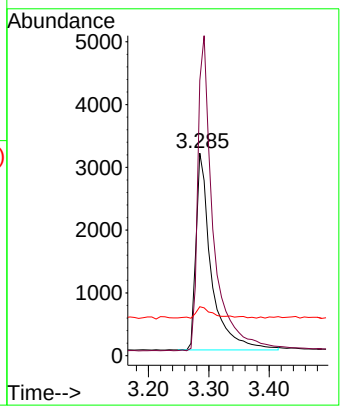


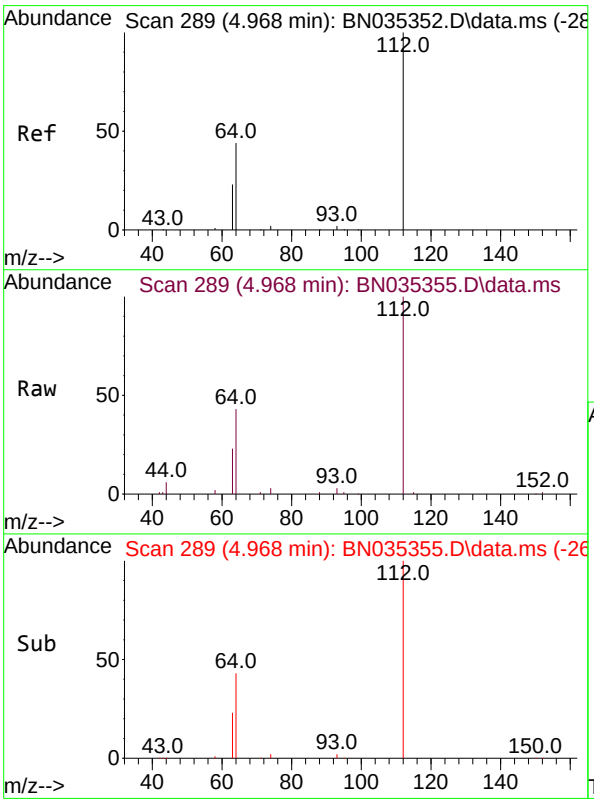
#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 5524

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

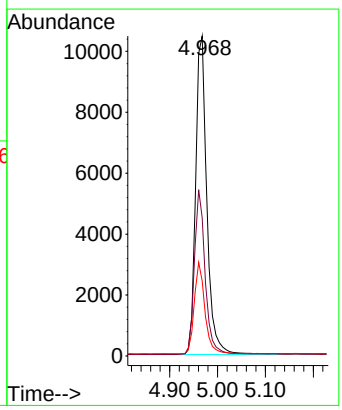


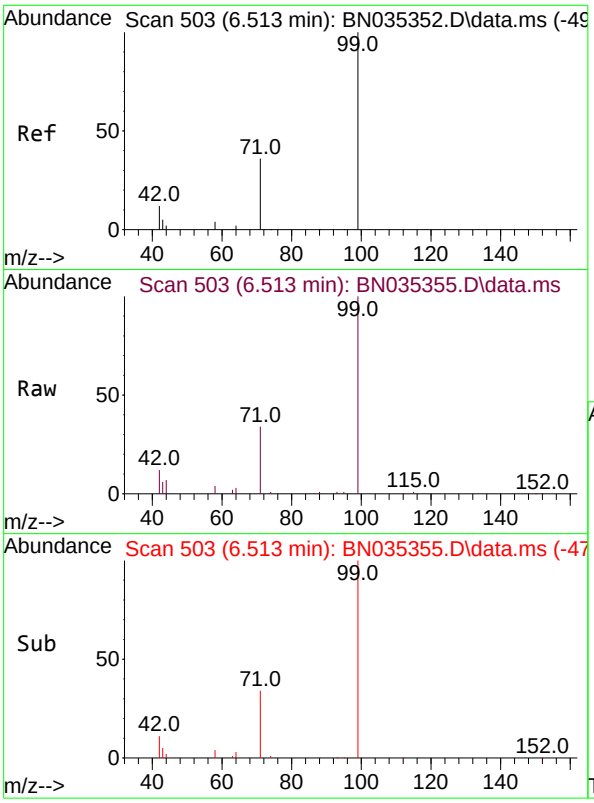


#4
2-Fluorophenol
Concen: 3.007 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:112 Resp: 16991

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



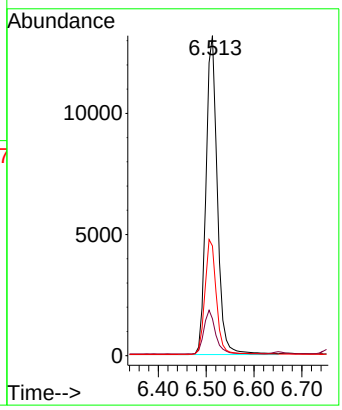


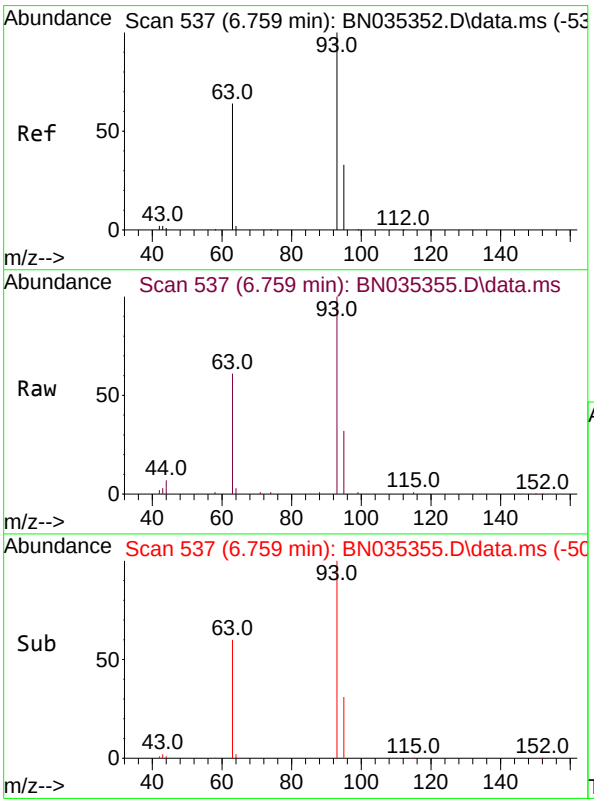
#5
Phenol-d6
Concen: 3.053 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 21633

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

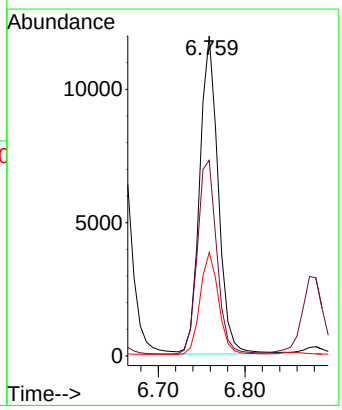


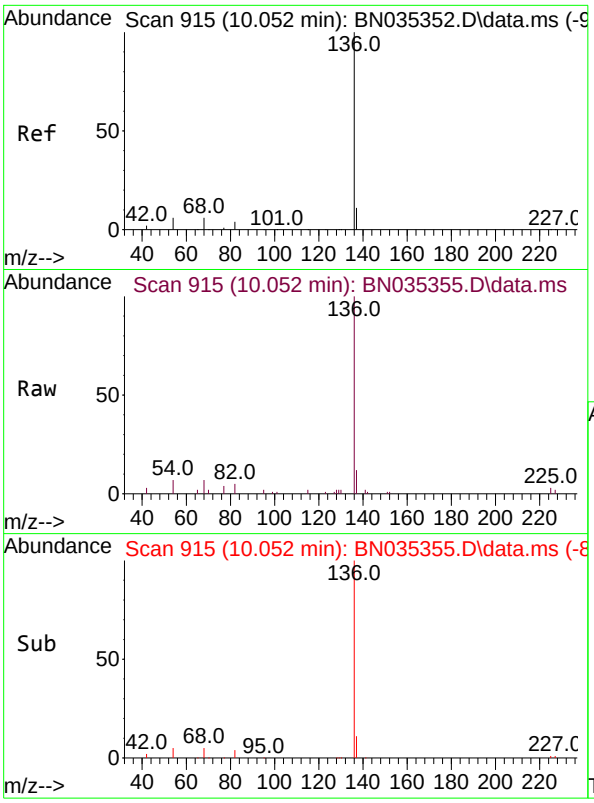


#6
bis(2-Chloroethyl)ether
Concen: 3.339 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 93 Resp: 17762

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



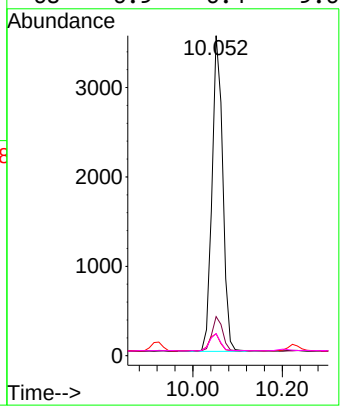


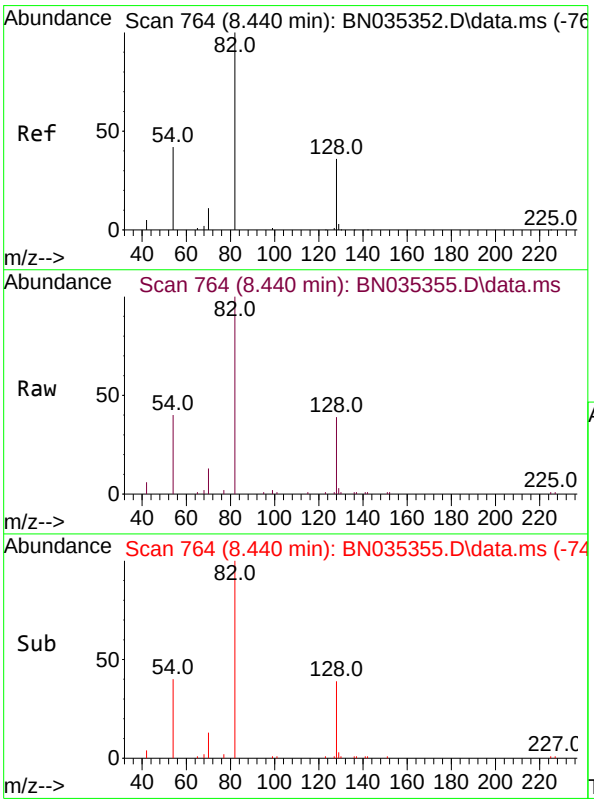
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 5857

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

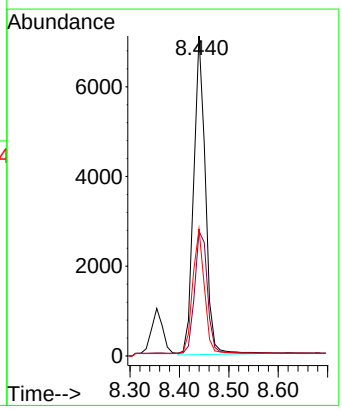


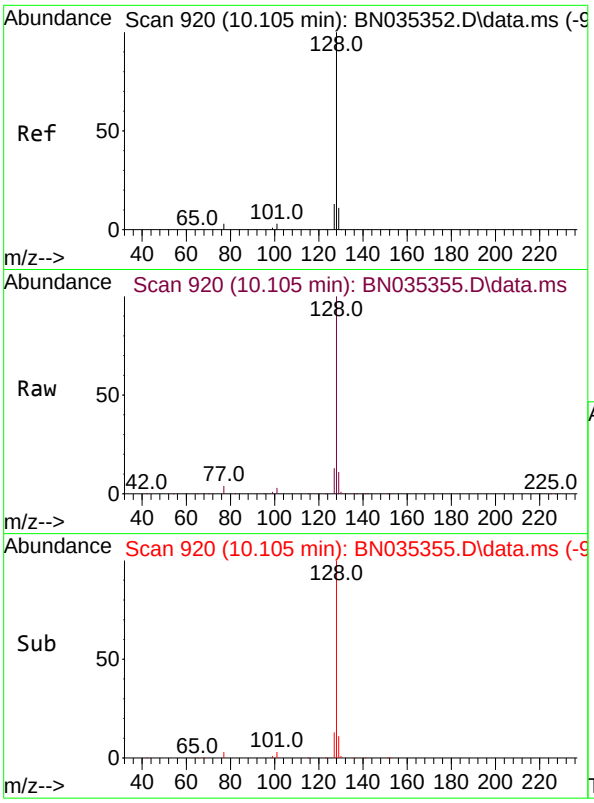


#8
Nitrobenzene-d5
Concen: 2.307 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

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



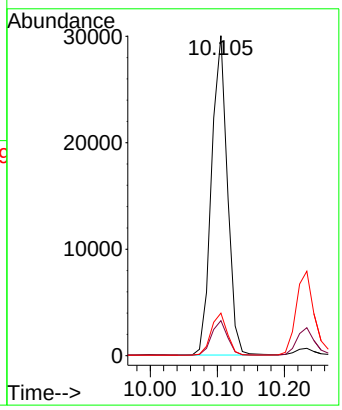


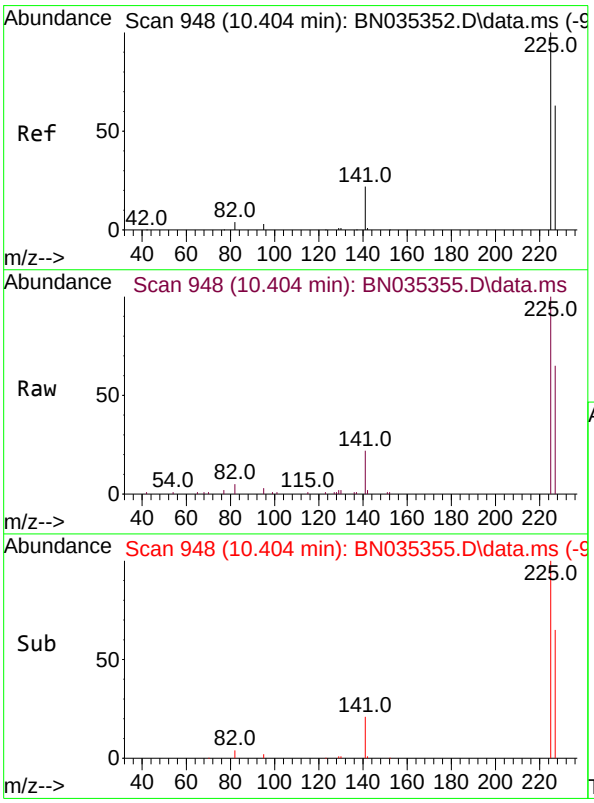
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 49151

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

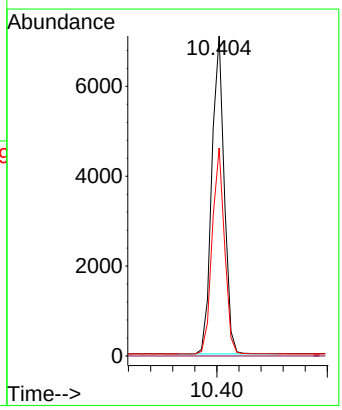


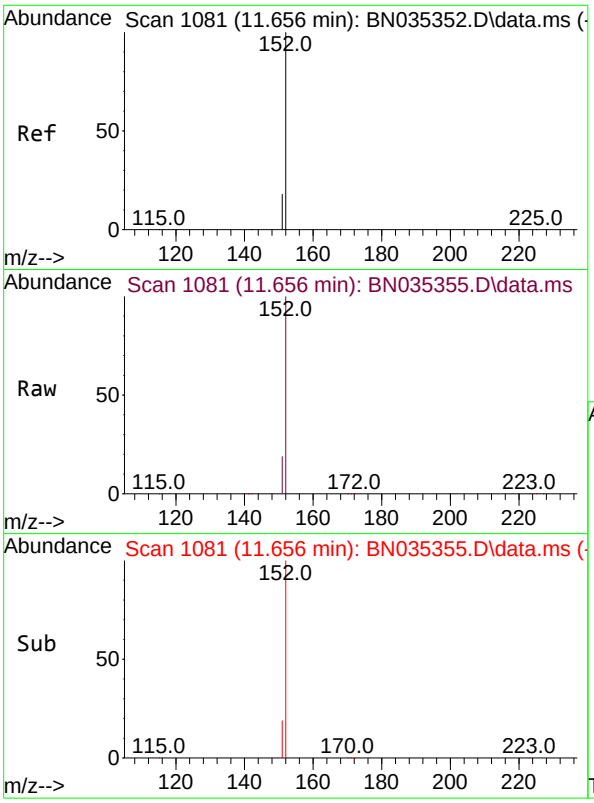


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:225 Resp: 11039

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



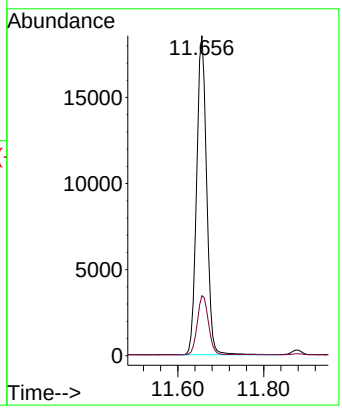


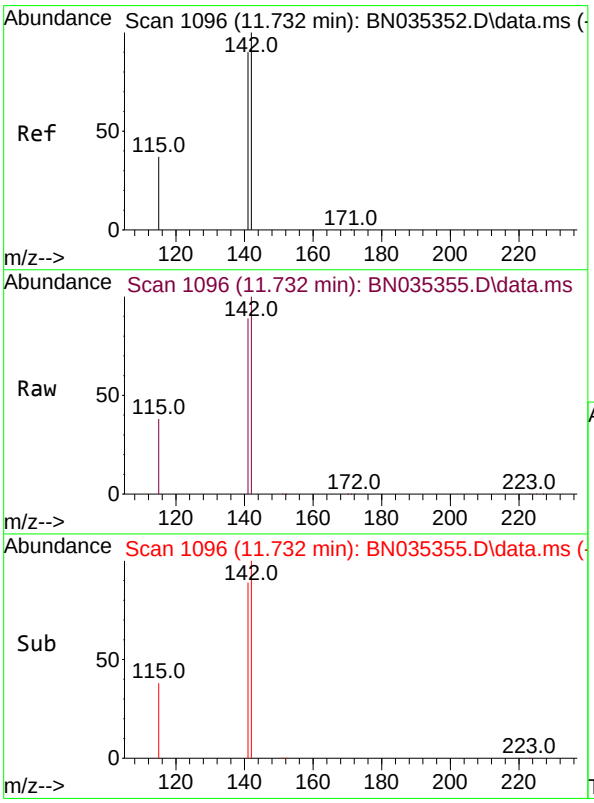
#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 29957

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.6	25.0

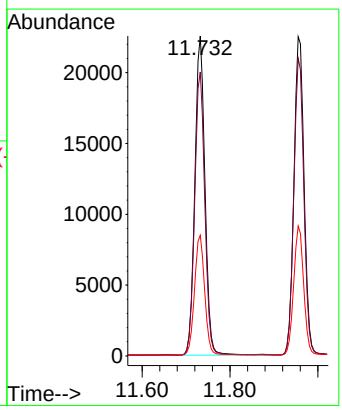


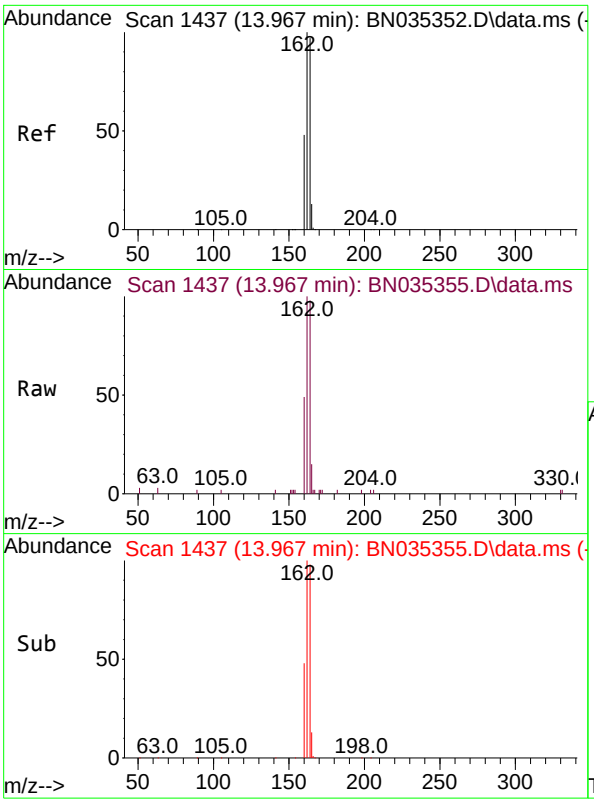


#12
2-Methylnaphthalene
Concen: 3.202 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:142 Resp: 36121

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



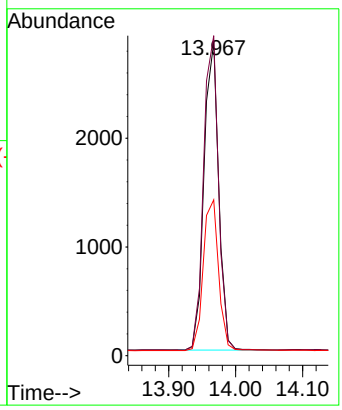


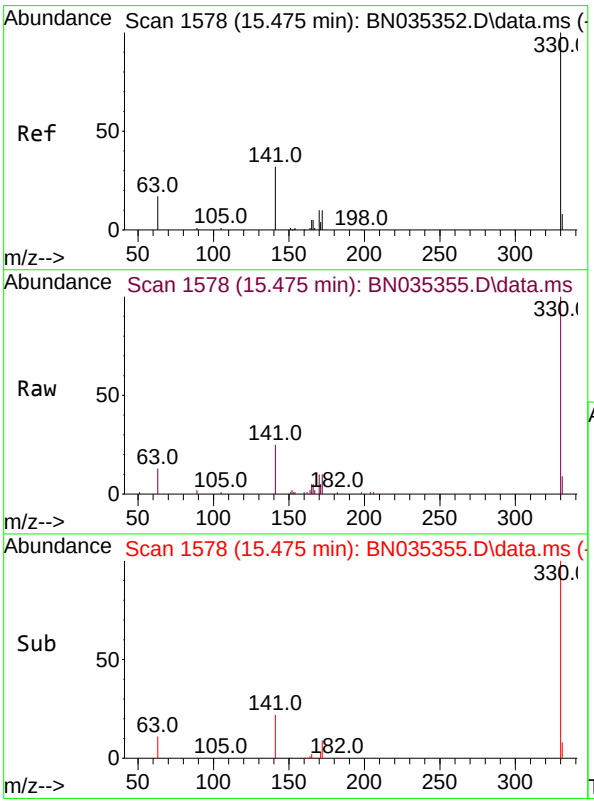
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 4307

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

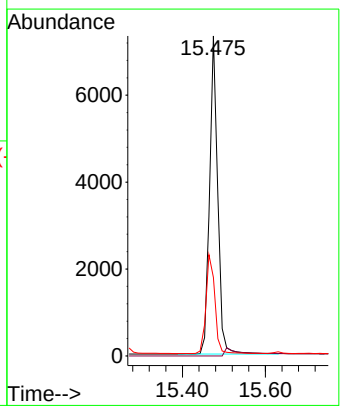


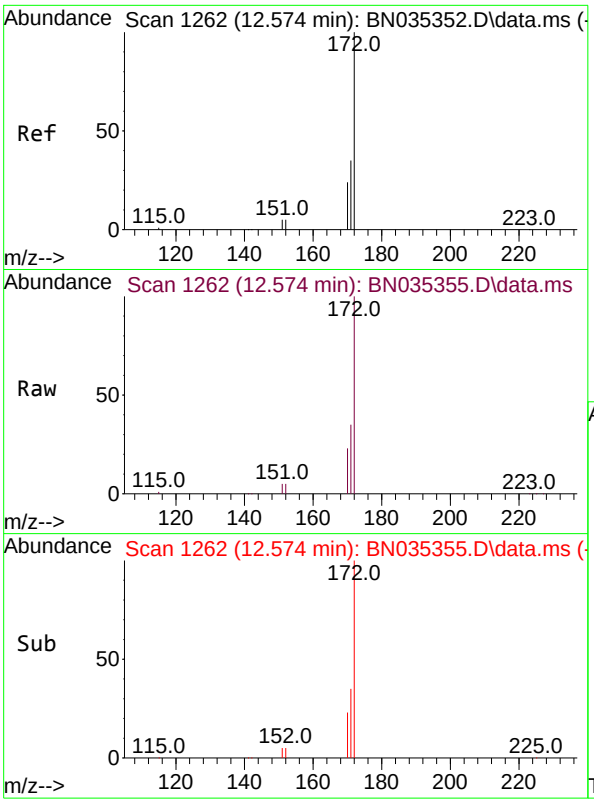


#14
2,4,6-Tribromophenol
Concen: 3.444 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:330 Resp: 10700

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



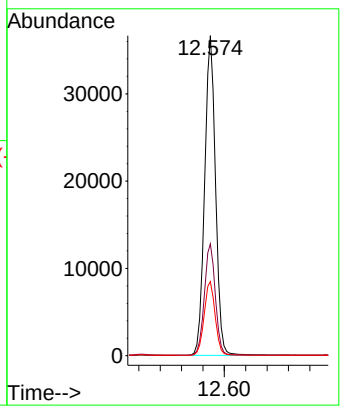


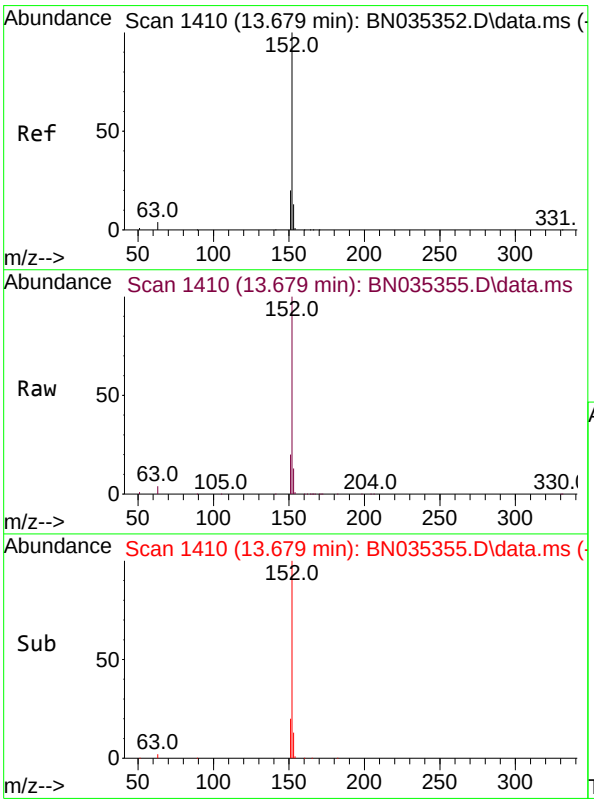
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 52048

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

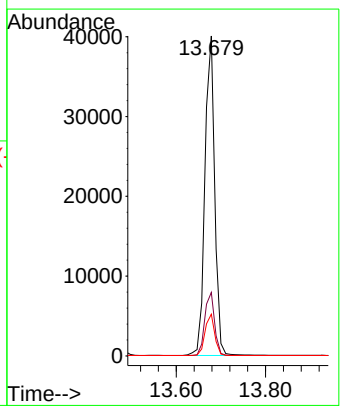


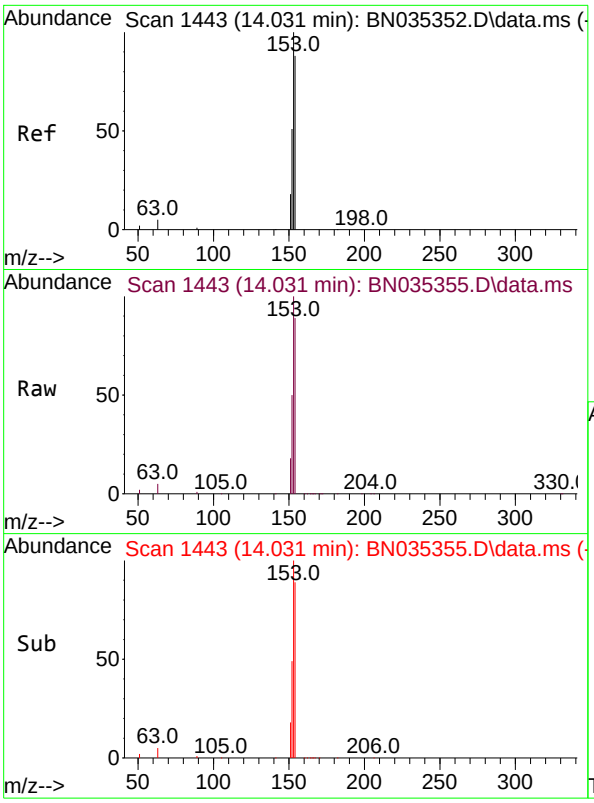


#16
Acenaphthylene
Concen: 3.300 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:152 Resp: 60734

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



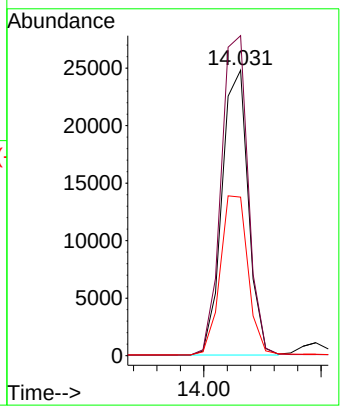


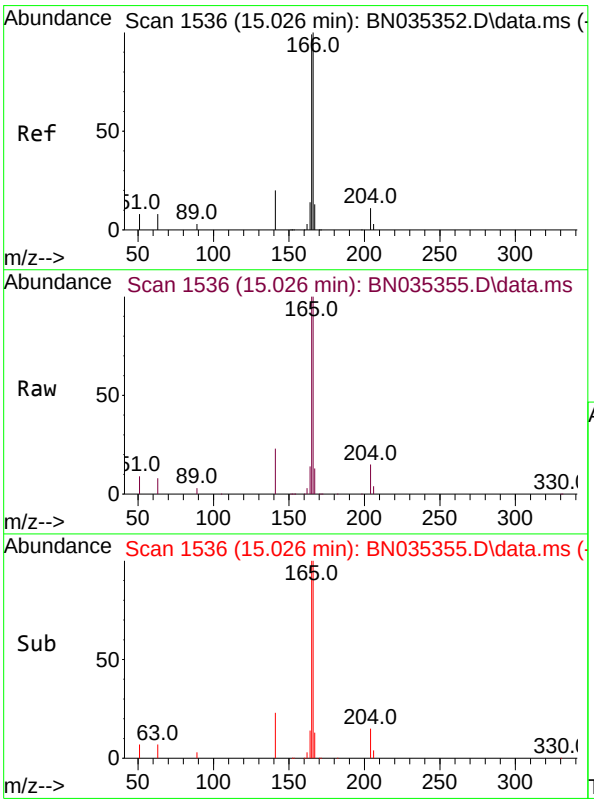
#17
Acenaphthene
Concen: 3.206 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 38676

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

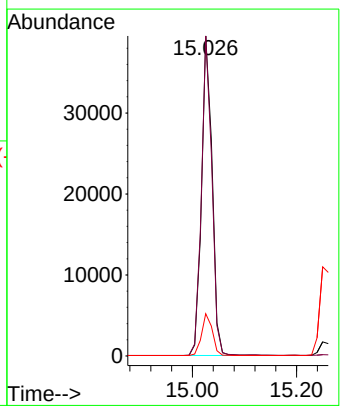


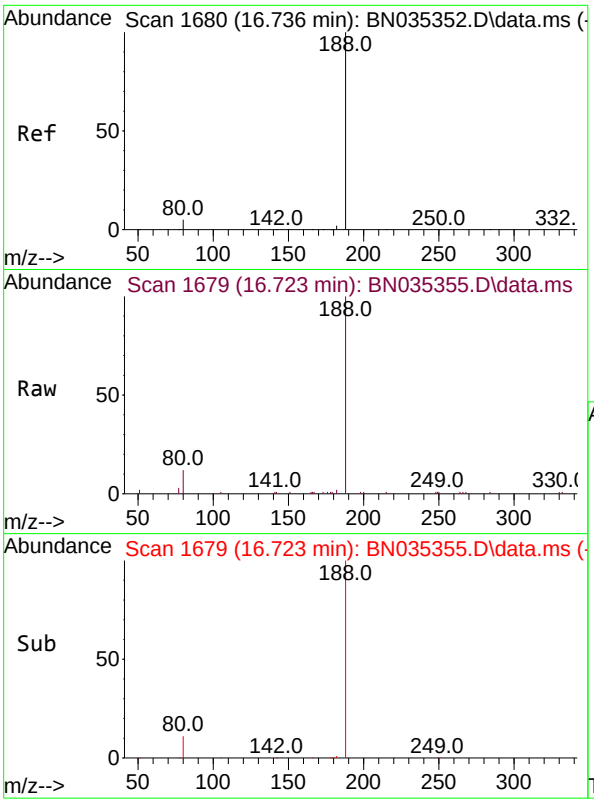


#18
Fluorene
Concen: 3.134 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:166 Resp: 55613

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



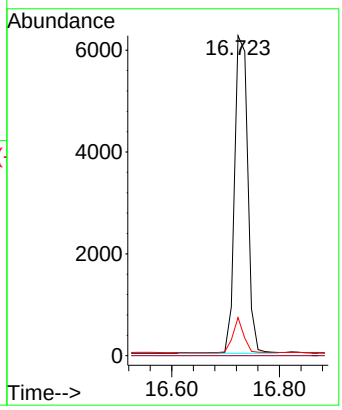


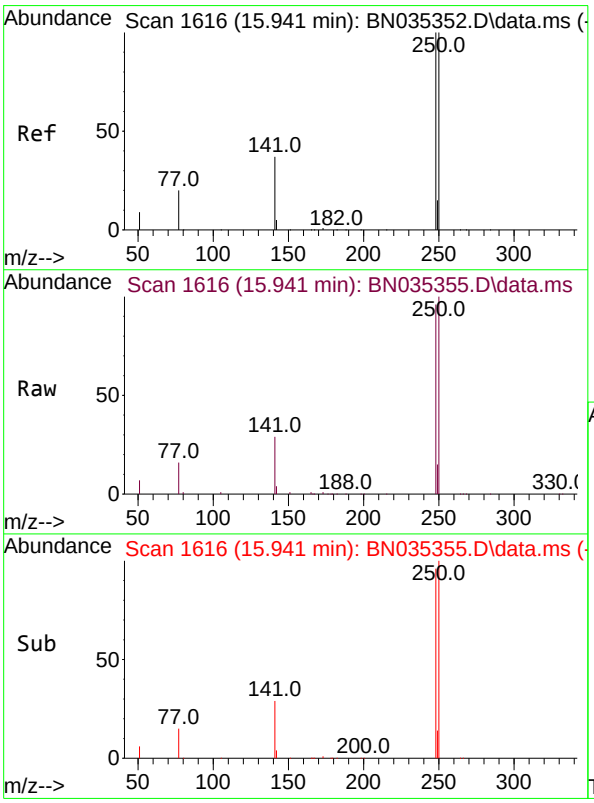
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 10513

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

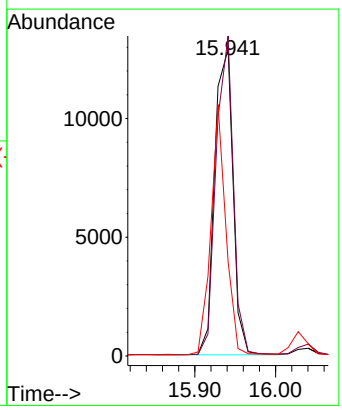


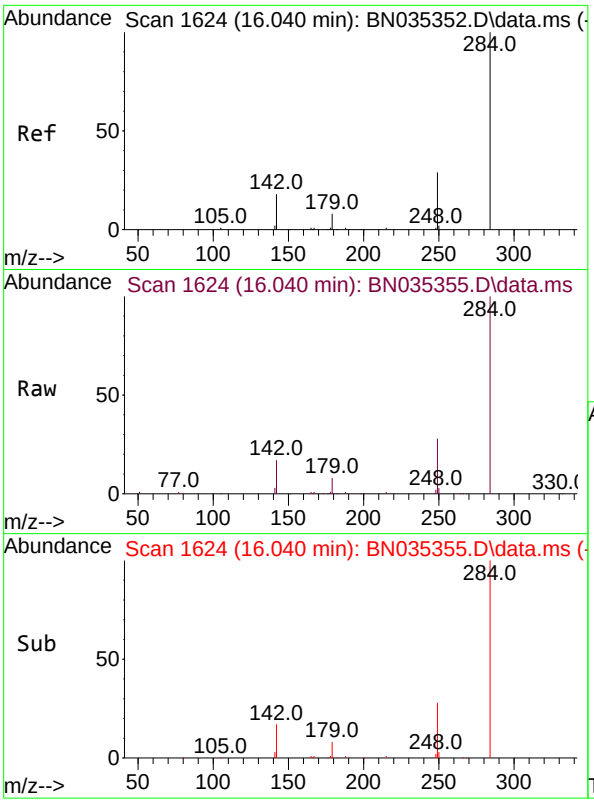


#21
4-Bromophenyl-phenylether
Concen: 3.034 ng
RT: 15.941 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:248 Resp: 20321

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



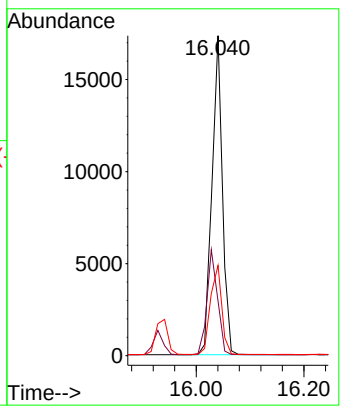


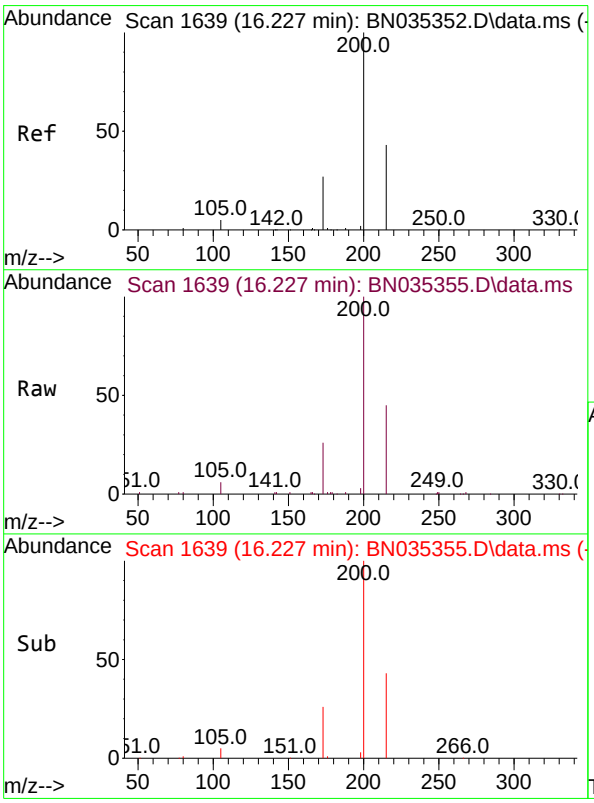
#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:284 Resp: 23349

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

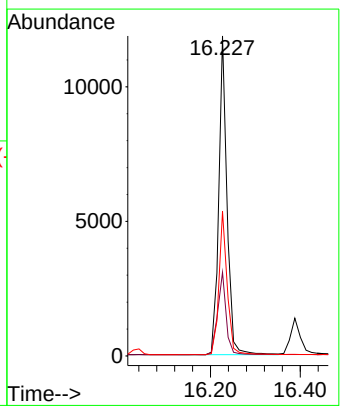


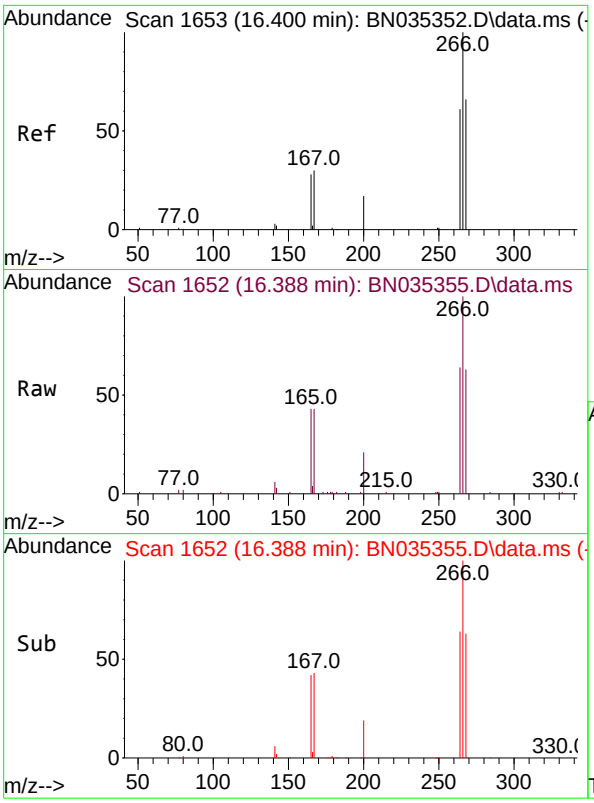


#23
Atrazine
Concen: 2.508 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:200 Resp: 15072

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



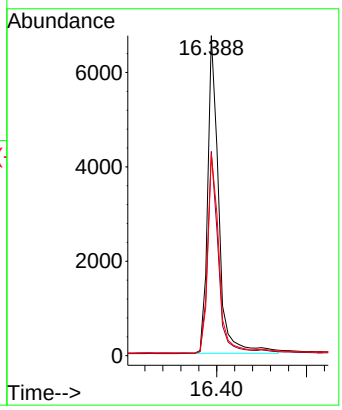


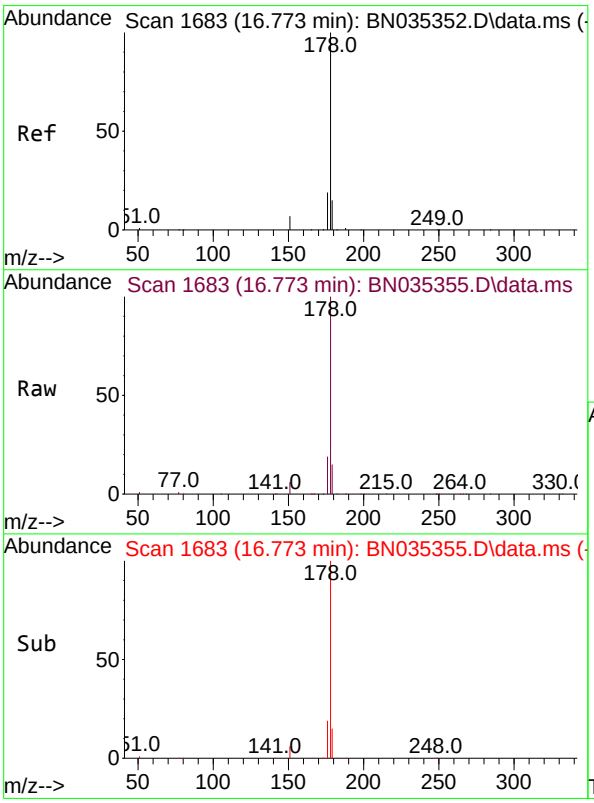
#24
Pentachlorophenol
Concen: 3.522 ng
RT: 16.388 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:266 Resp: 11439

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

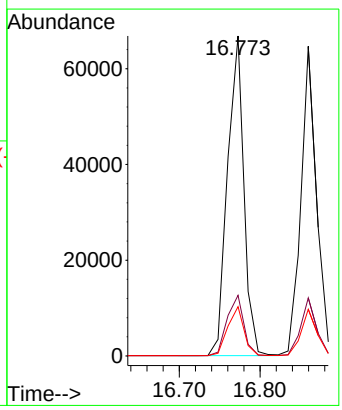


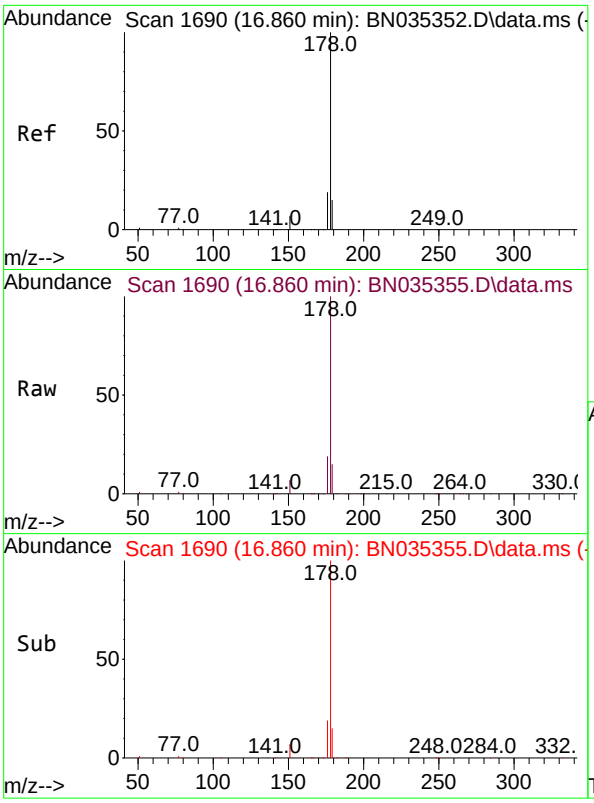


#25
Phenanthrene
Concen: 3.406 ng
RT: 16.773 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:178 Resp: 94243

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



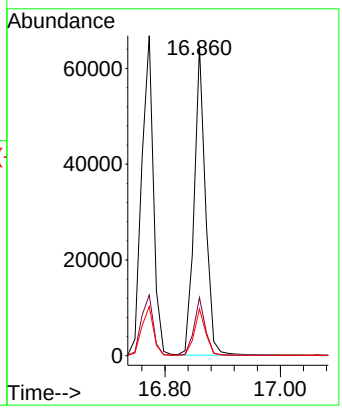


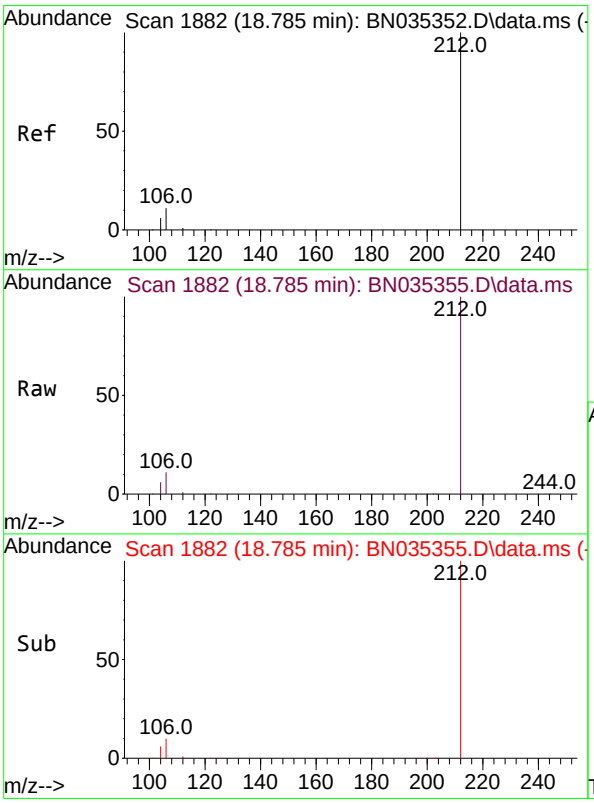
#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 87657

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

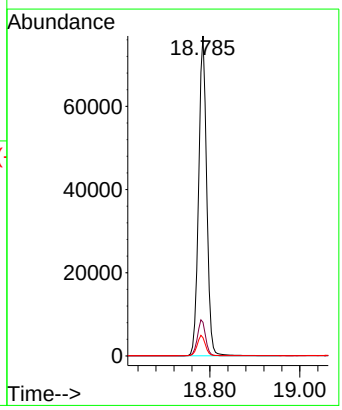


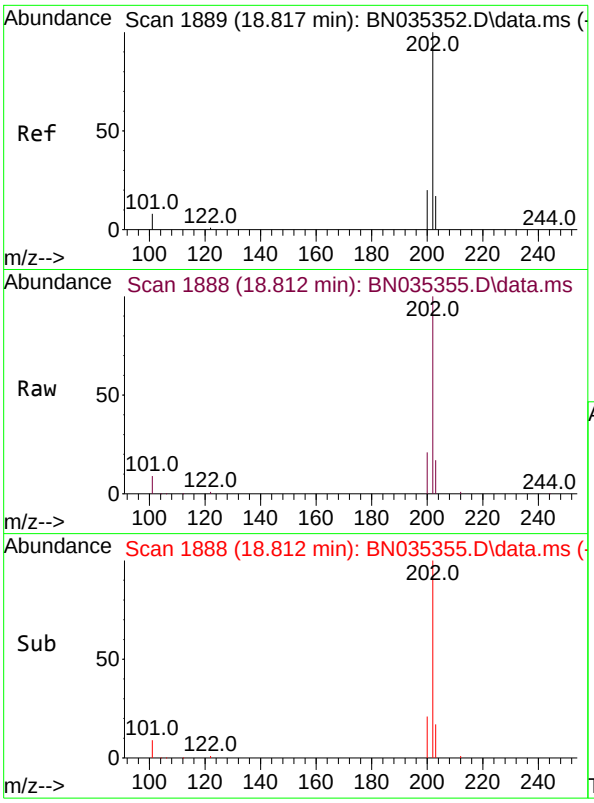


#27
Fluoranthene-d10
Concen: 2.971 ng
RT: 18.785 min Scan# 1882
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:212 Resp: 95675

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



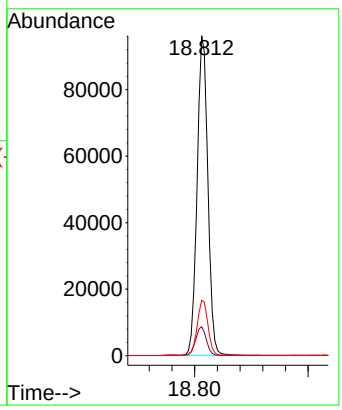


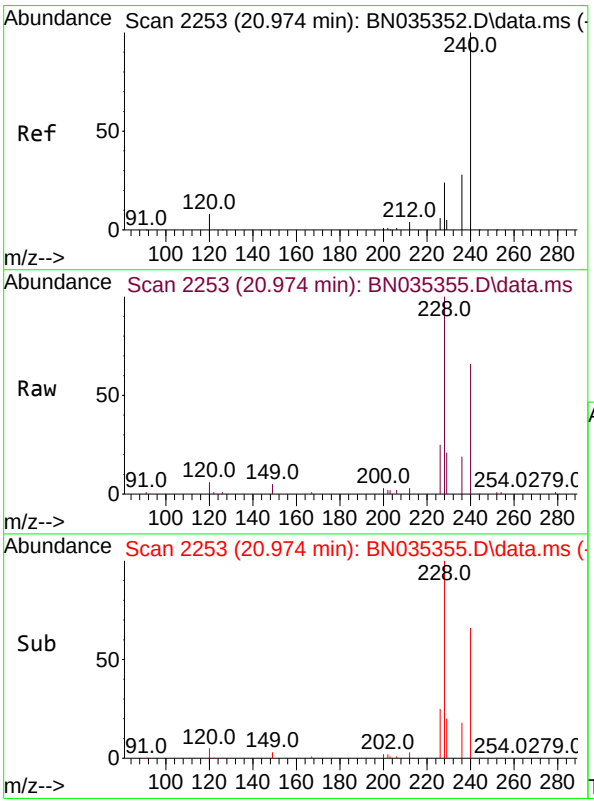
#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 125901

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

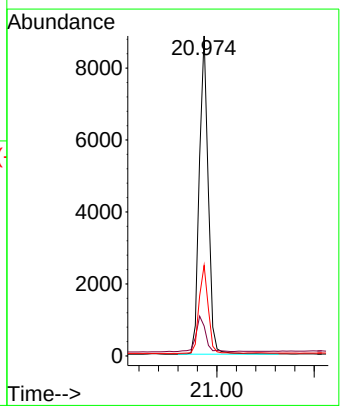


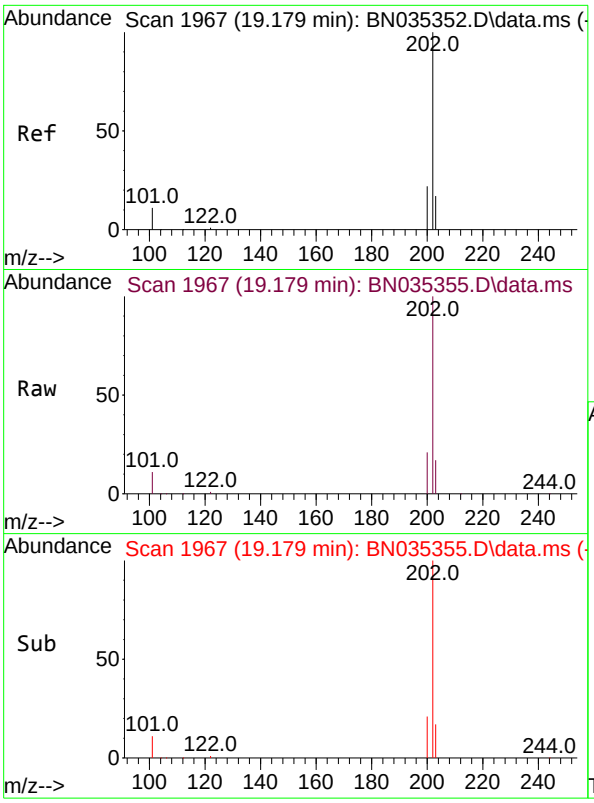


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:240 Resp: 11206

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



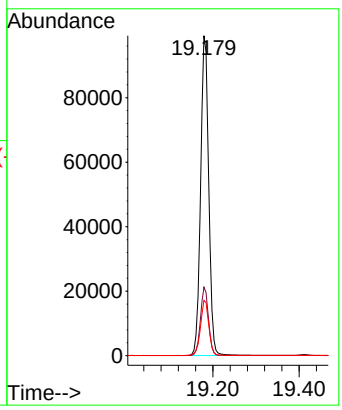


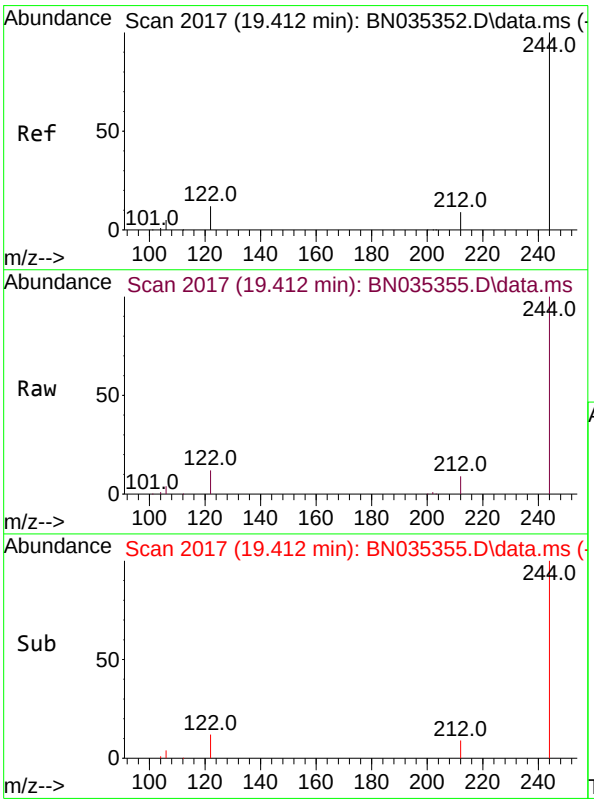
#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:202 Resp: 129105

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

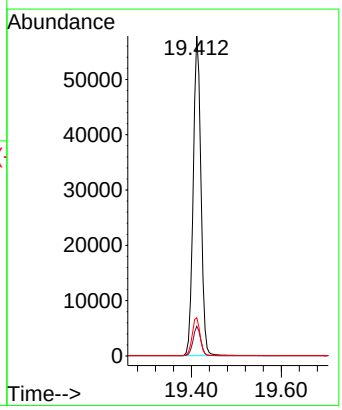


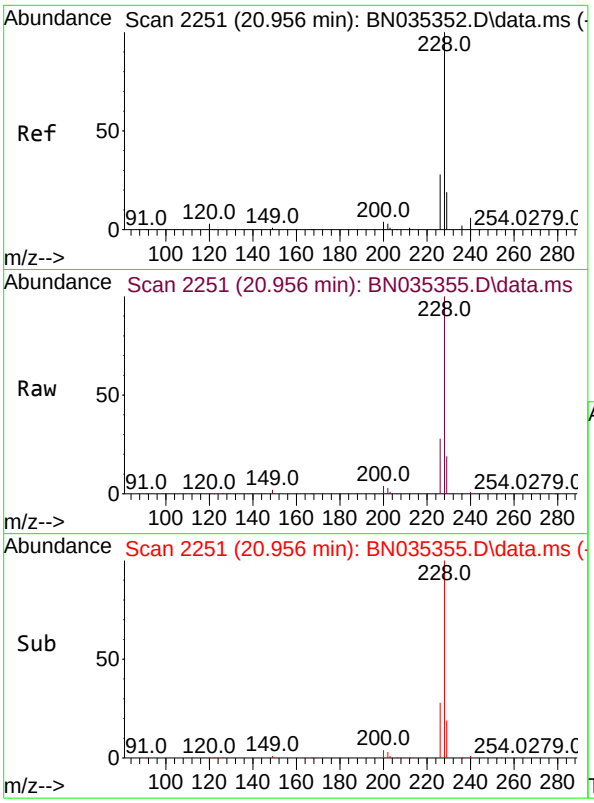


#31
Terphenyl-d14
Concen: 2.941 ng
RT: 19.412 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:244 Resp: 69164

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



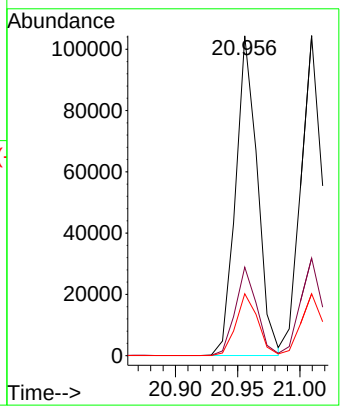


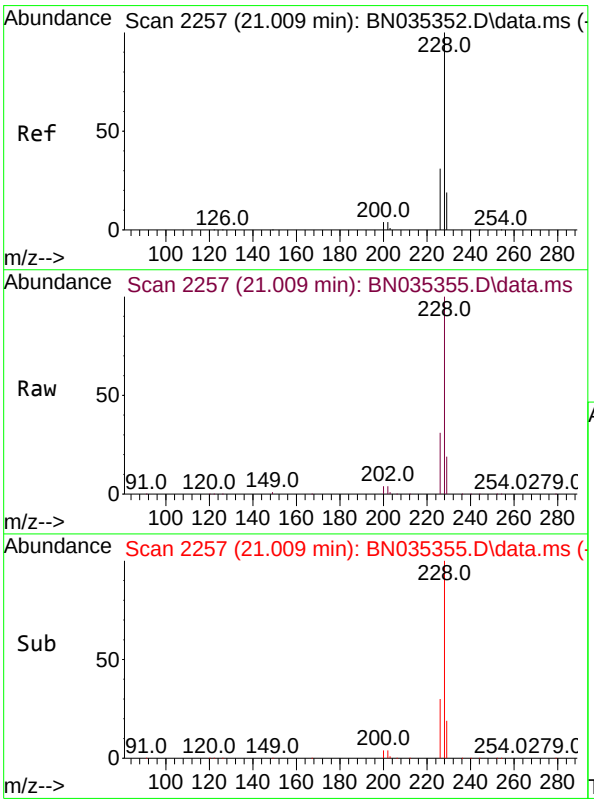
#32
Benzo(a)anthracene
Concen: 3.242 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 126517

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

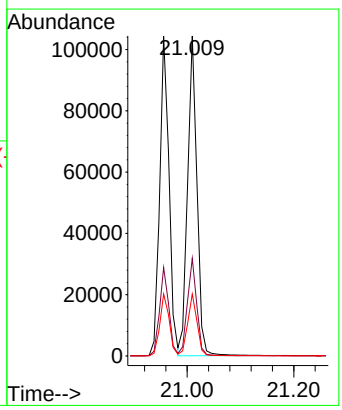


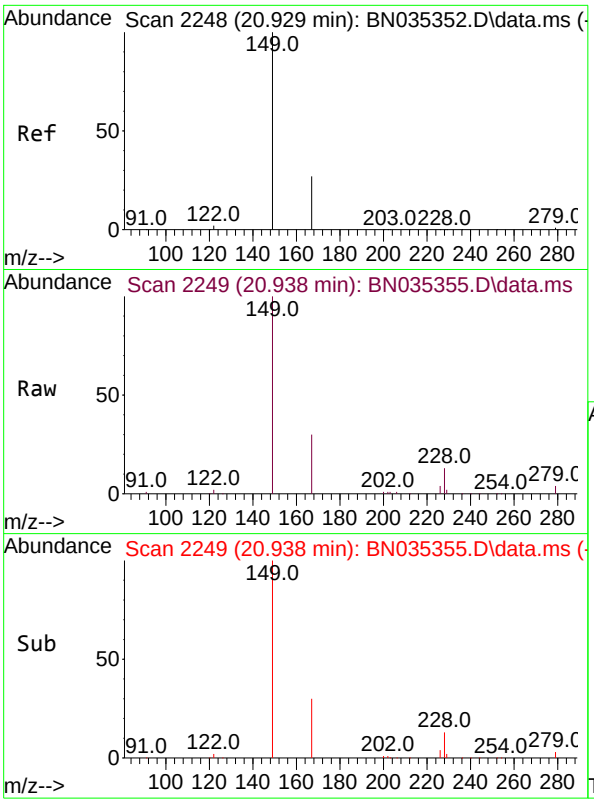


#33
Chrysene
Concen: 3.297 ng
RT: 21.009 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:228 Resp: 127439

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



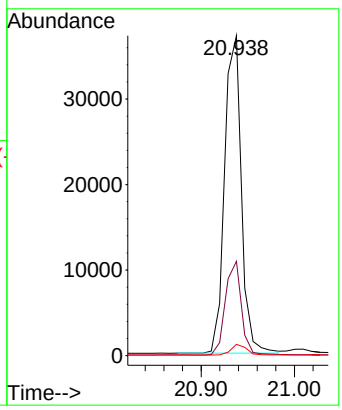


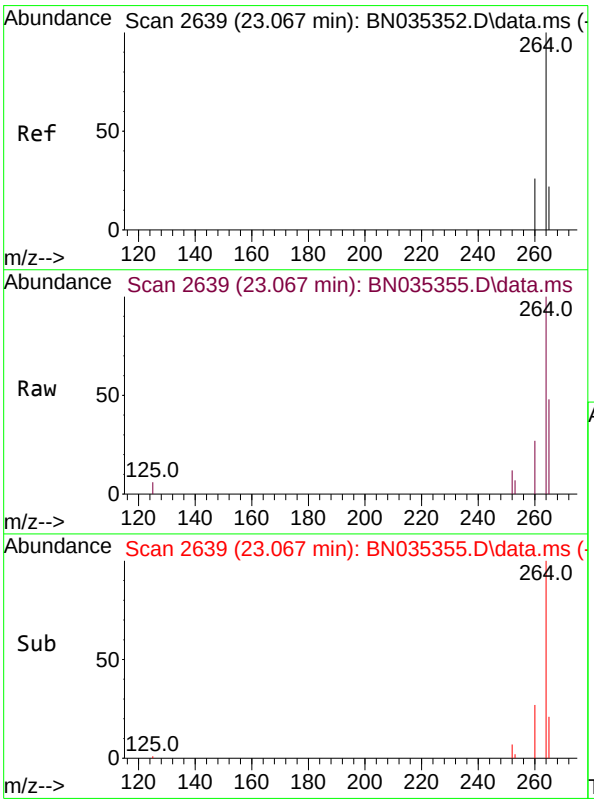
#34
Bis(2-ethylhexyl)phthalate
Concen: 2.259 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:149 Resp: 46251

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

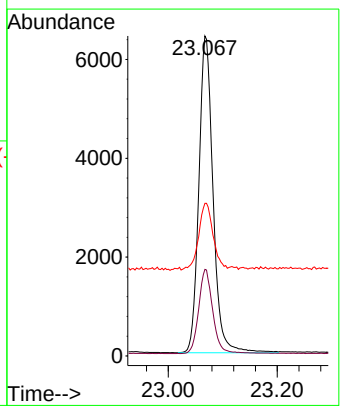


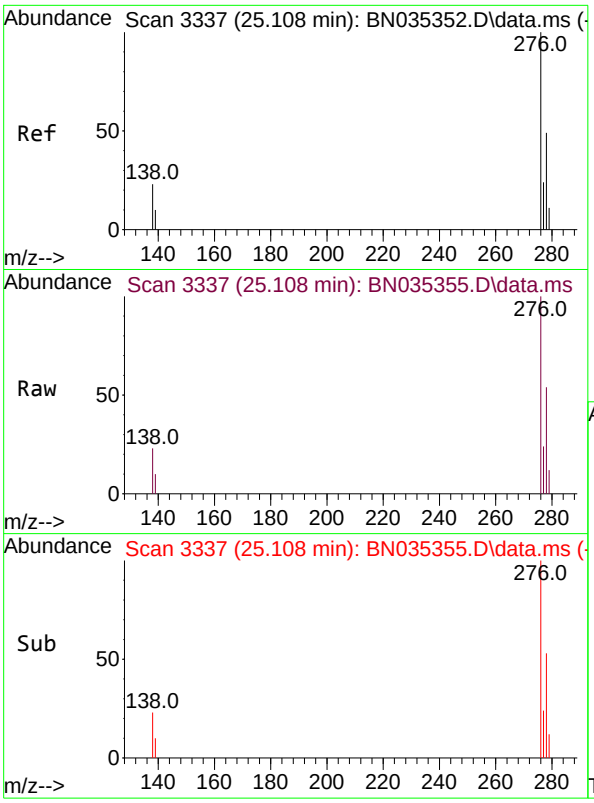


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:264 Resp: 11643

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



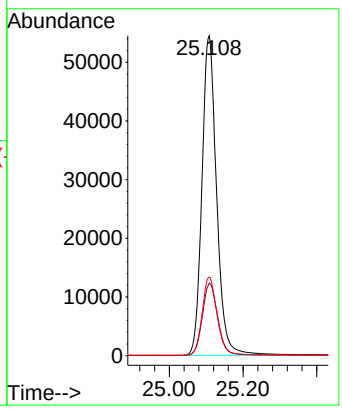


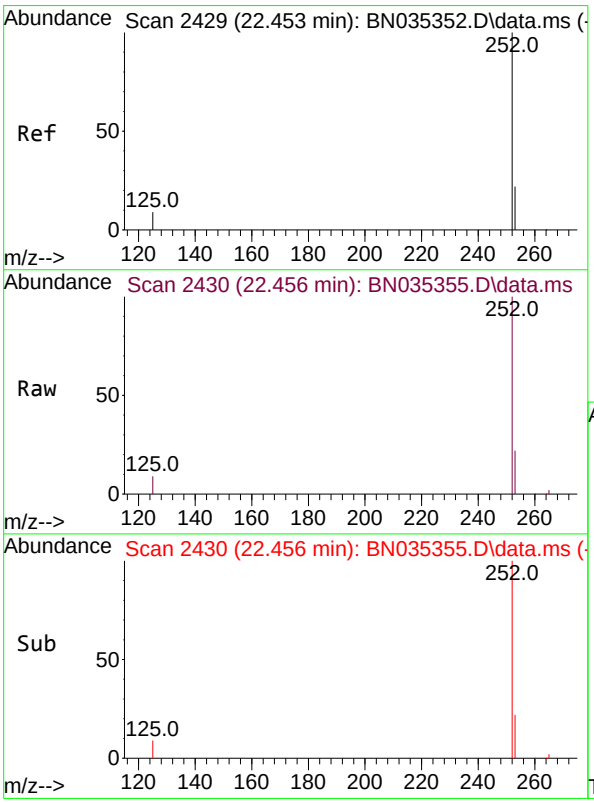
#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 150433

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

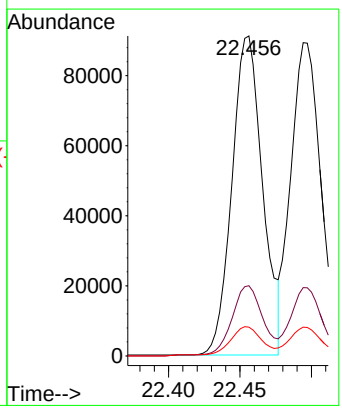


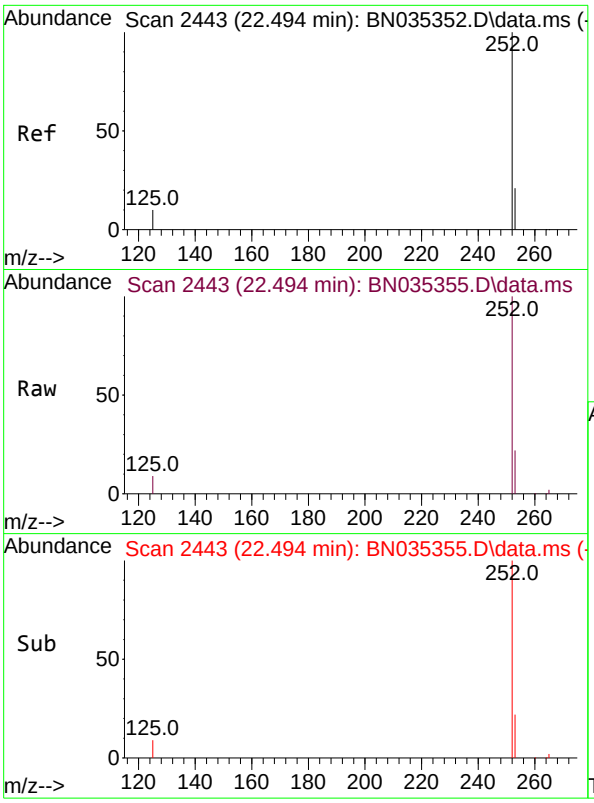


#37
Benzo(b)fluoranthene
Concen: 3.478 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 136261

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



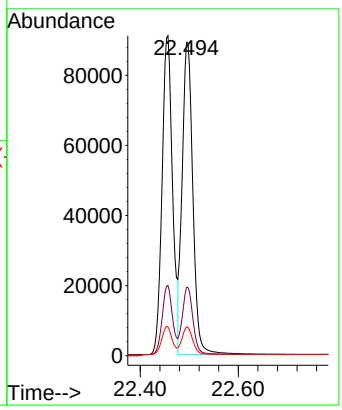


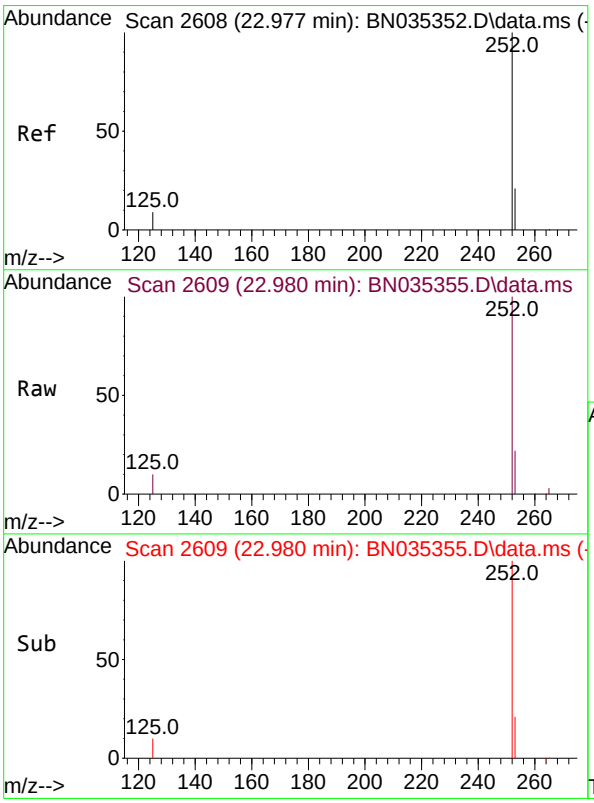
#38
Benzo(k)fluoranthene
Concen: 3.439 ng
RT: 22.494 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 134789

Ion	Ratio	Lower	Upper
252	100		
253	21.8	19.5	29.3
125	9.2	10.2	15.4#

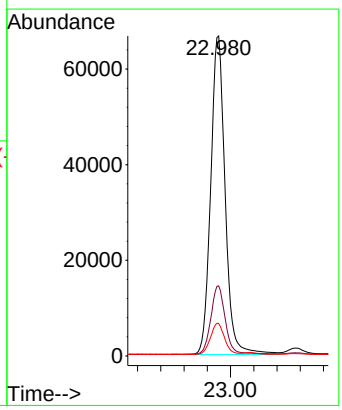


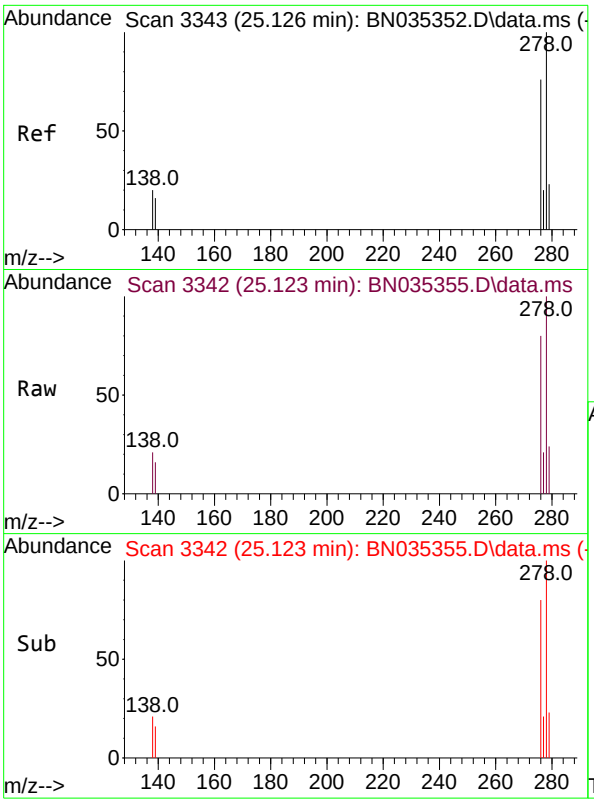


#39
Benzo(a)pyrene
Concen: 3.328 ng
RT: 22.980 min Scan# 2609
Delta R.T. 0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:252 Resp: 114719

Ion	Ratio	Lower	Upper
252	100		
253	21.9	20.2	30.4
125	10.1	10.9	16.3#



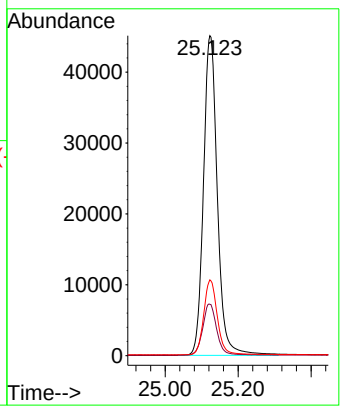


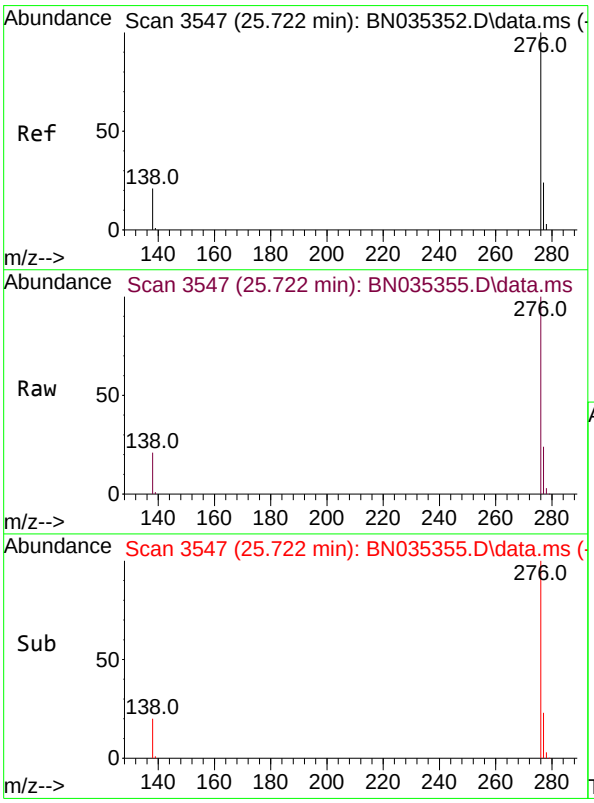
#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:278 Resp: 119216

Ion	Ratio	Lower	Upper
278	100		
139	16.1	14.2	21.4
279	23.7	20.5	30.7

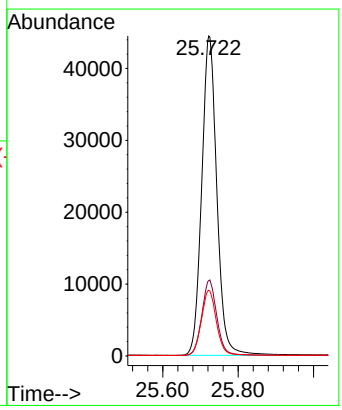




#41
Benzo(g,h,i)perylene
Concen: 3.164 ng
RT: 25.722 min Scan# 3547
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Tgt Ion:276 Resp: 123841

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.9	29.9
138	20.6	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	11520	0.400	ng		0.00
35) Perylene-d12	23.067	264	12000	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	26472	4.637	ng		0.00
5) Phenol-d6	6.513	99	34560	4.828	ng		0.00
8) Nitrobenzene-d5	8.440	82	18911	3.741	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	47612	4.601	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	17905	5.689	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	82401	4.650	ng		0.00
27) Fluoranthene-d10	18.785	212	152416	4.748	ng		0.00
31) Terphenyl-d14	19.412	244	110737	4.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.996	88	9786	4.790	ng		99
3) n-Nitrosodimethylamine	3.285	42	8681	4.560	ng	#	96
6) bis(2-Chloroethyl)ether	6.759	93	27872	5.187	ng		99
9) Naphthalene	10.105	128	77668	5.123	ng		97
10) Hexachlorobutadiene	10.404	225	17273	3.887	ng	#	100
12) 2-Methylnaphthalene	11.732	142	57698	5.158	ng		98
16) Acenaphthylene	13.679	152	97129	5.209	ng		99
17) Acenaphthene	14.031	154	62170	5.088	ng		98
18) Fluorene	15.026	166	88648	4.932	ng		99
21) 4-Bromophenyl-phenylether	15.941	248	31947	4.785	ng	#	94
22) Hexachlorobenzene	16.040	284	36315	5.241	ng		100
23) Atrazine	16.227	200	25034	4.179	ng		96
24) Pentachlorophenol	16.388	266	19691	6.083	ng		86
25) Phenanthrene	16.773	178	147357	5.343	ng		100
26) Anthracene	16.860	178	139399	5.503	ng		99
28) Fluoranthene	18.812	202	199850	5.270	ng		99
30) Pyrene	19.179	202	206018	5.370	ng		100
32) Benzo(a)anthracene	20.956	228	205712	5.128	ng		99
33) Chrysene	21.009	228	204475	5.146	ng		99
34) Bis(2-ethylhexyl)phtha...	20.938	149	78322	3.721	ng		99
36) Indeno(1,2,3-cd)pyrene	25.108	276	252709	5.279	ng		99
37) Benzo(b)fluoranthene	22.456	252	241201	5.974	ng	#	94
38) Benzo(k)fluoranthene	22.497	252	220146	5.449	ng	#	93
39) Benzo(a)pyrene	22.977	252	190665	5.367	ng	#	92
40) Dibenzo(a,h)anthracene	25.126	278	199852	5.269	ng		96
41) Benzo(g,h,i)perylene	25.725	276	209119	5.183	ng		97

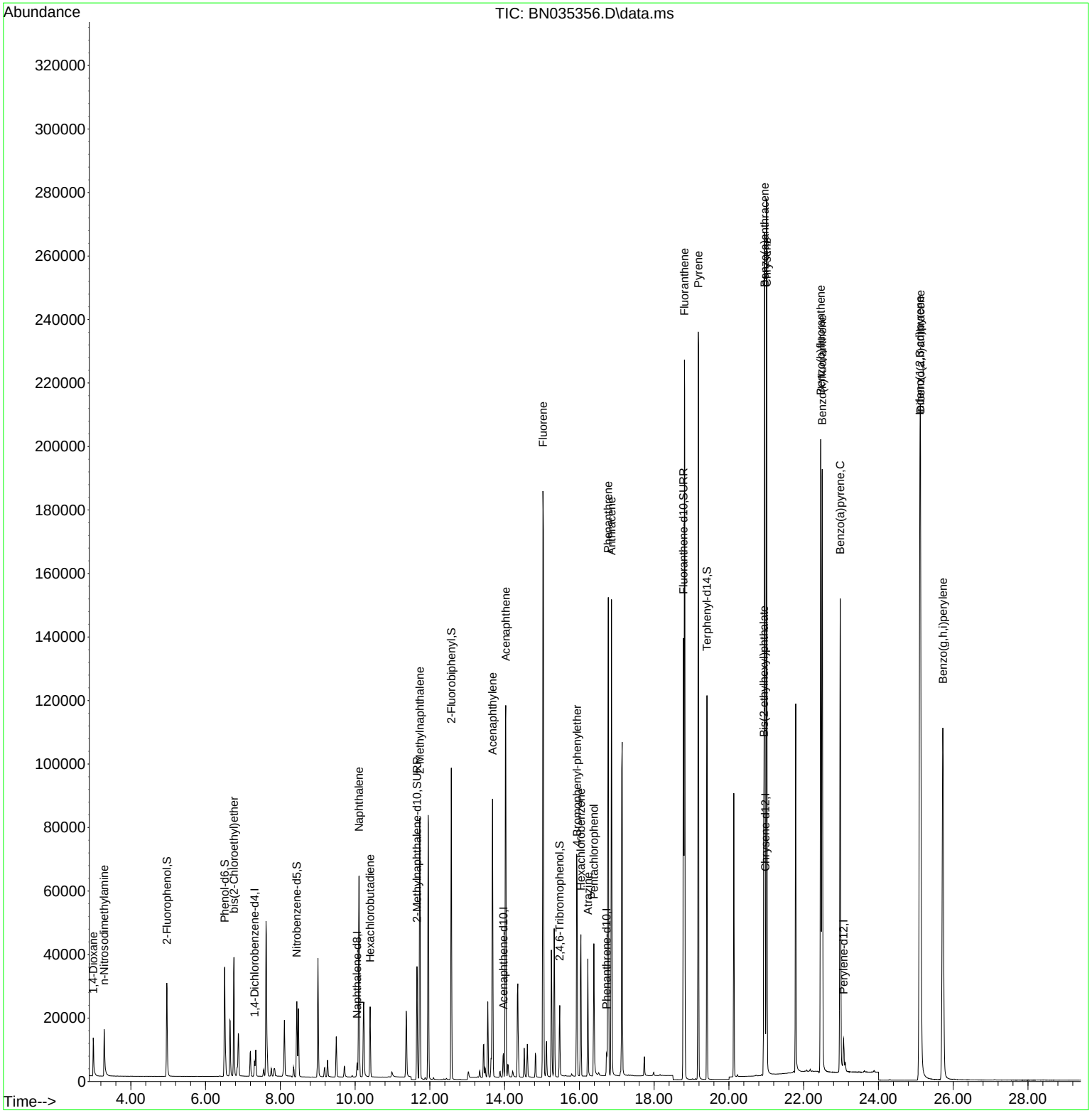
(#) = qualifier out of range (m) = manual integration (+) = signals summed

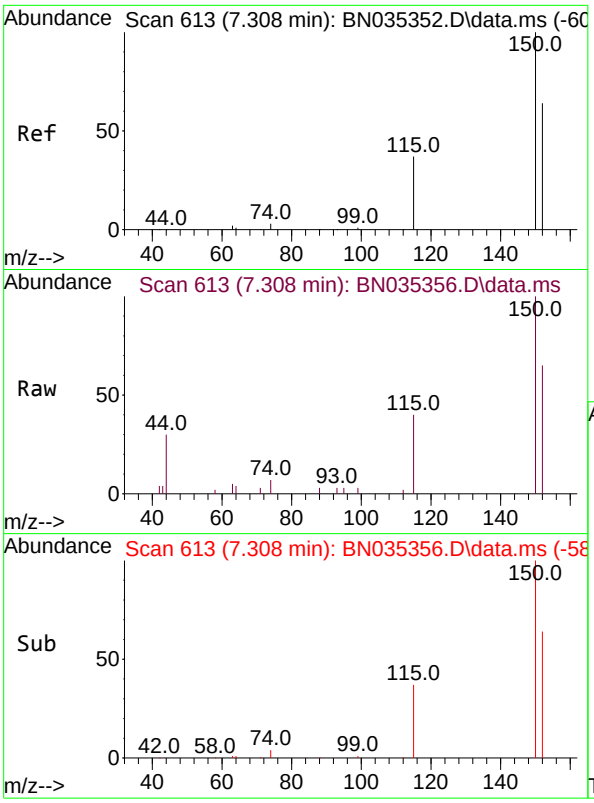
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035356.D
Acq On : 27 Nov 2024 19:09
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 27 22:54:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



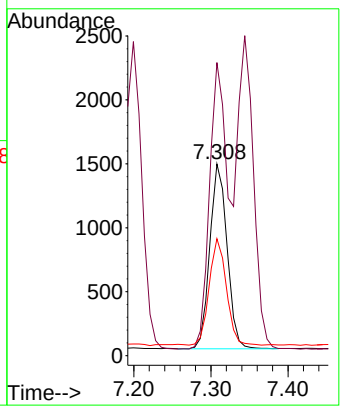


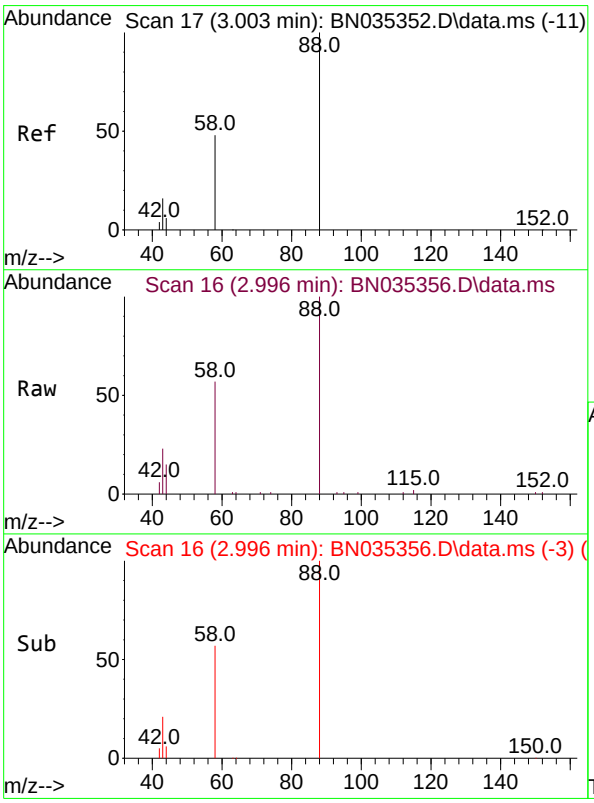
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 2249

Ion	Ratio	Lower	Upper
152	100		
150	152.9	124.0	186.0
115	61.0	49.6	74.4

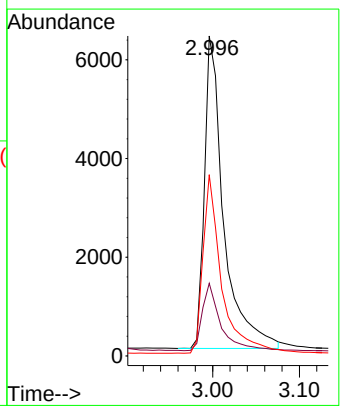


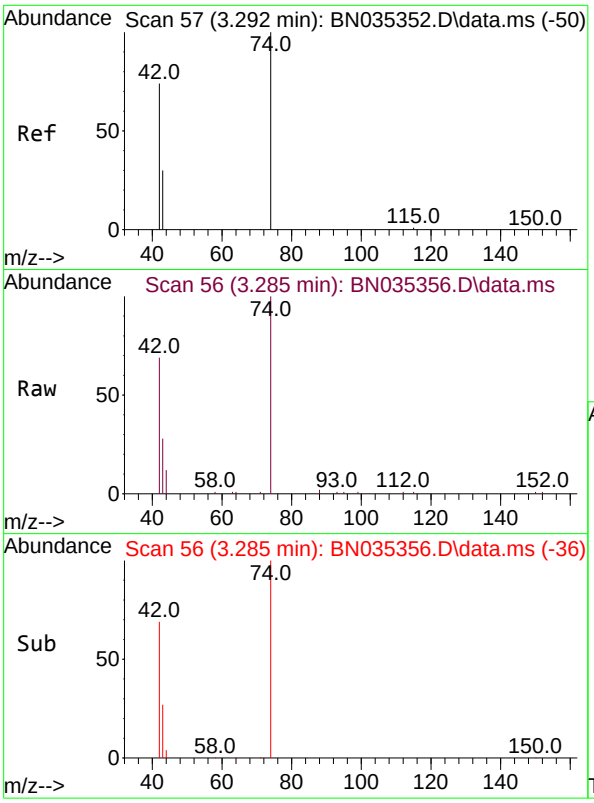


#2
1,4-Dioxane
Concen: 4.790 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 88 Resp: 9786

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



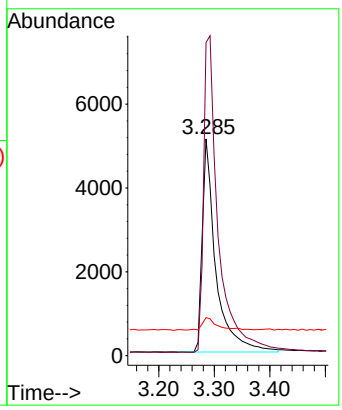


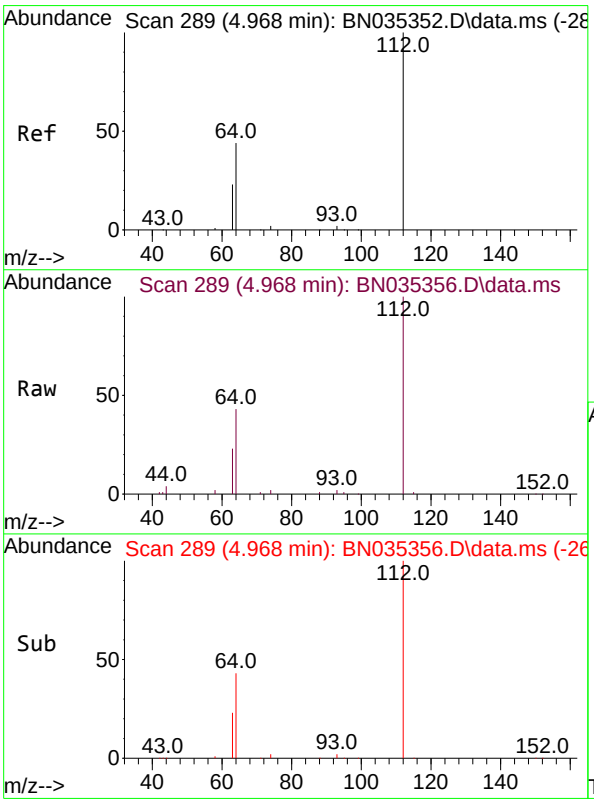
#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 8681

Ion	Ratio	Lower	Upper
42	100		
74	161.2	124.9	187.3
44	6.7	2.2	3.4#

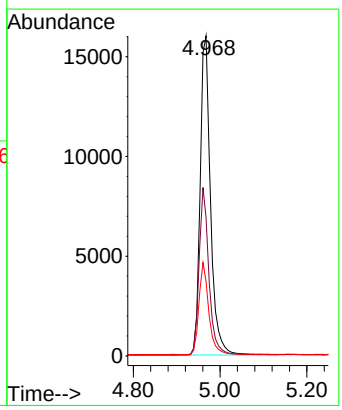


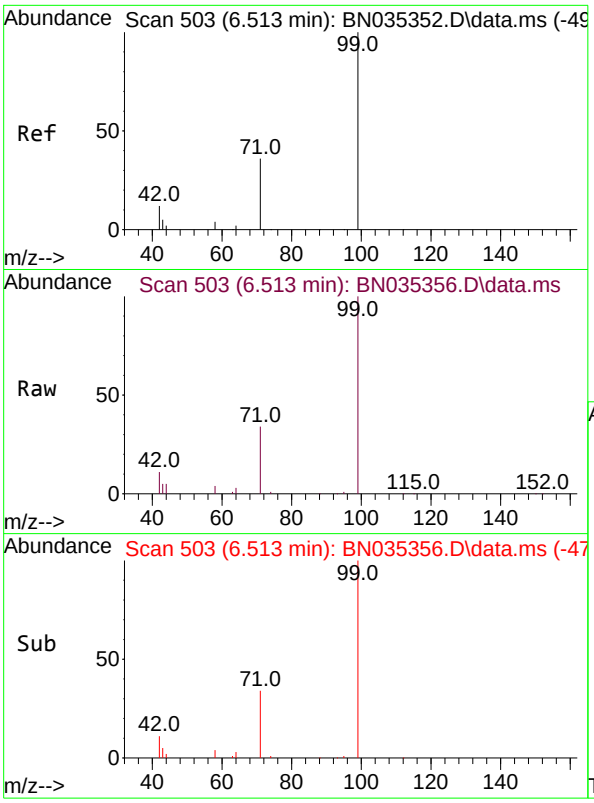


#4
2-Fluorophenol
Concen: 4.637 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:112 Resp: 26472

Ion	Ratio	Lower	Upper
112	100		
64	50.0	39.8	59.8
63	27.4	21.0	31.6



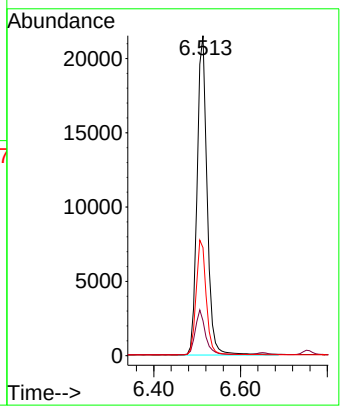


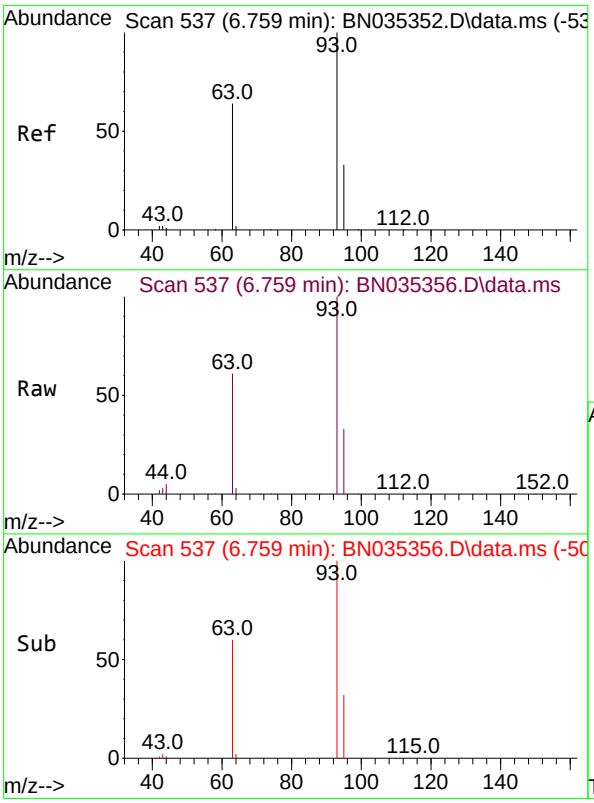
#5
Phenol-d6
Concen: 4.828 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 34560

Ion	Ratio	Lower	Upper
99	100		
42	14.1	11.4	17.2
71	36.4	29.3	43.9

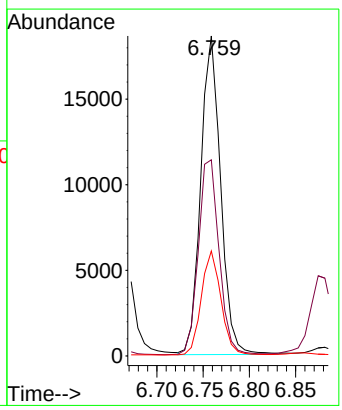


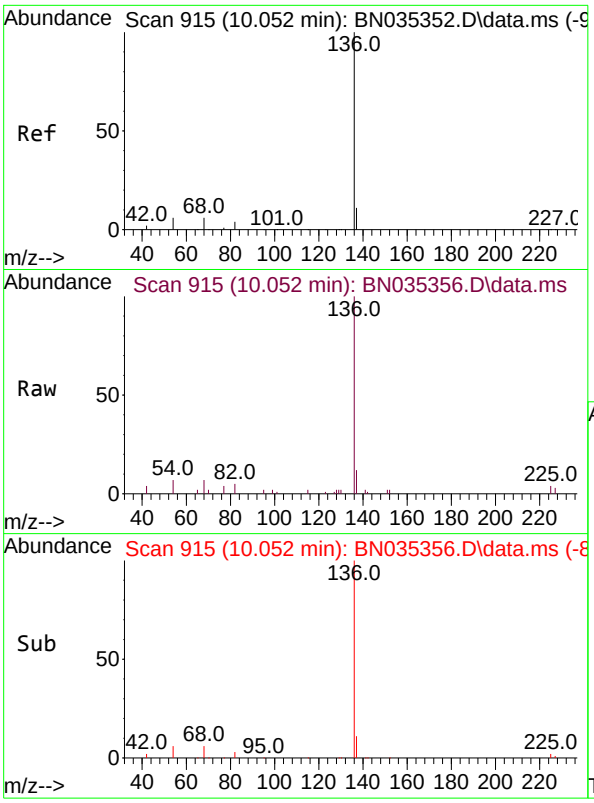


#6
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 93 Resp: 27872

Ion	Ratio	Lower	Upper
93	100		
63	63.7	50.4	75.6
95	32.1	25.7	38.5



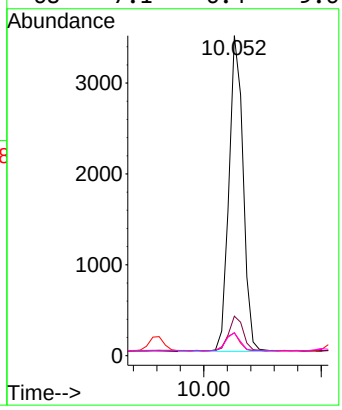


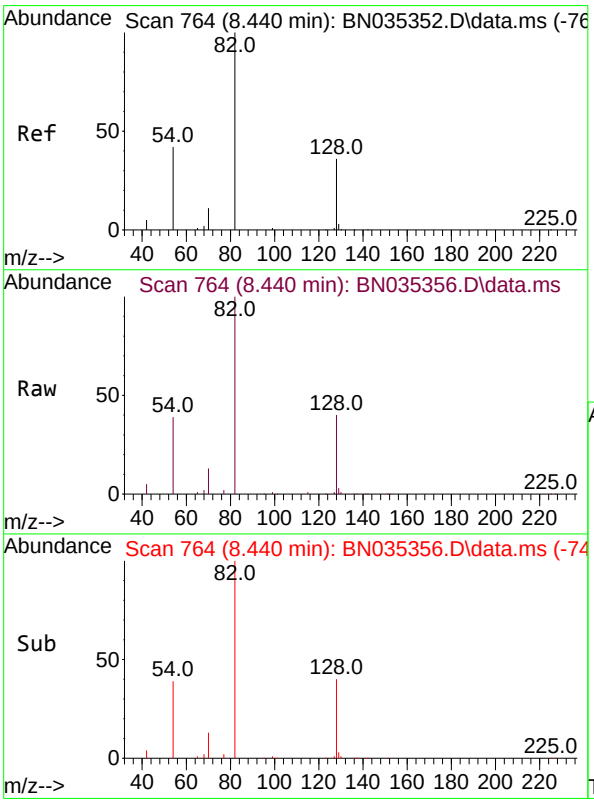
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 5807

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	7.1	6.1	9.1
68	7.1	6.4	9.6

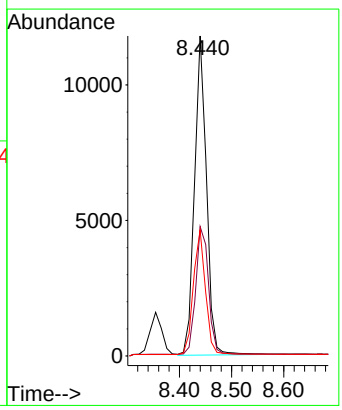


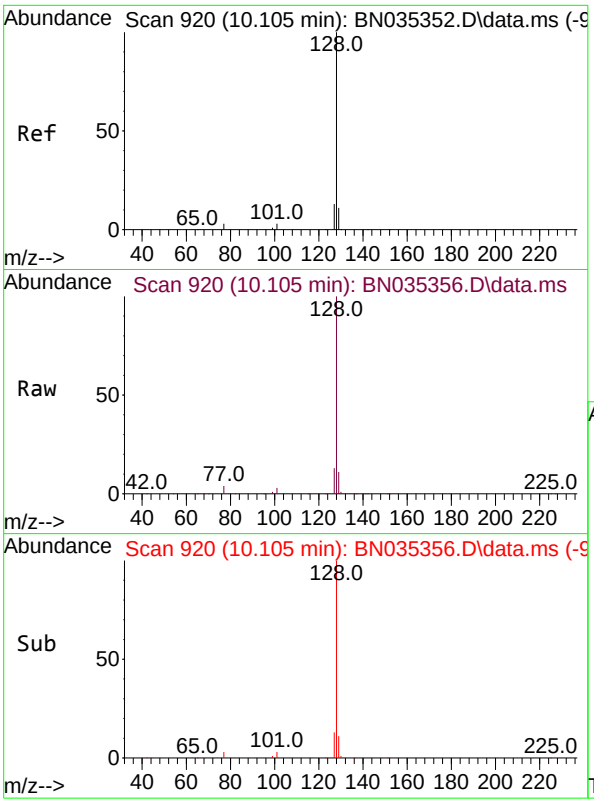


#8
Nitrobenzene-d5
Concen: 3.741 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

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



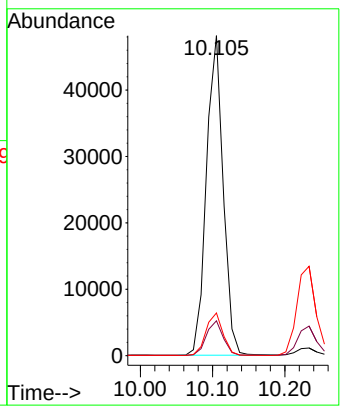


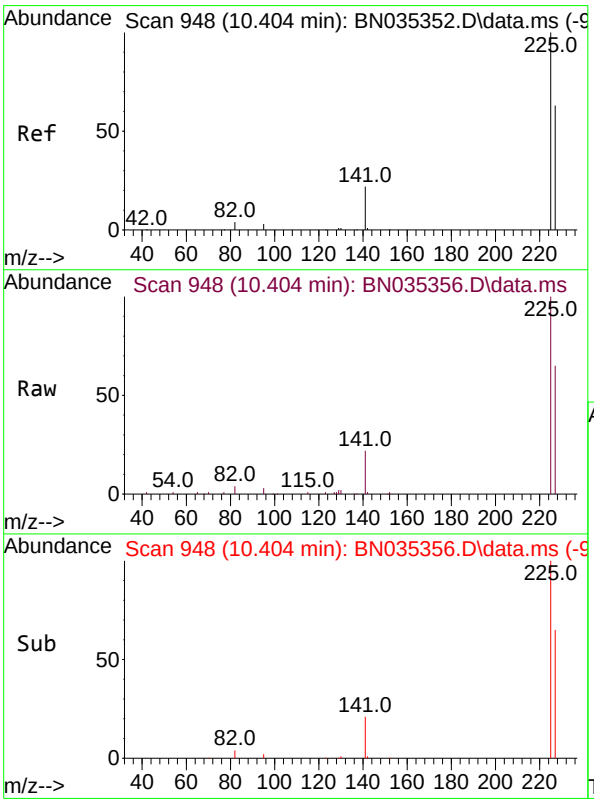
#9
Naphthalene
Concen: 5.123 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 77668

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

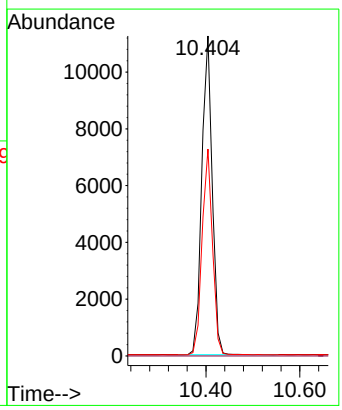


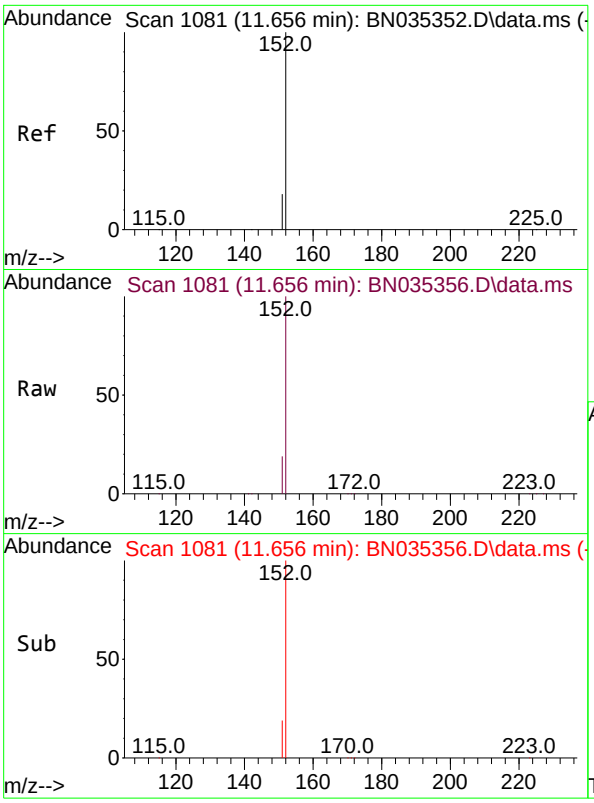


#10
Hexachlorobutadiene
Concen: 3.887 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:225 Resp: 17273

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



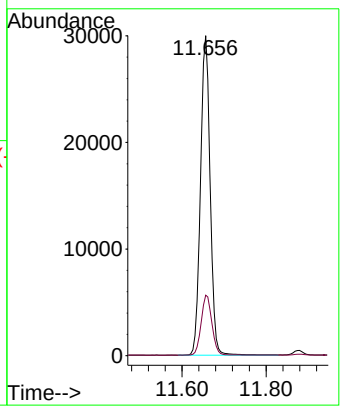


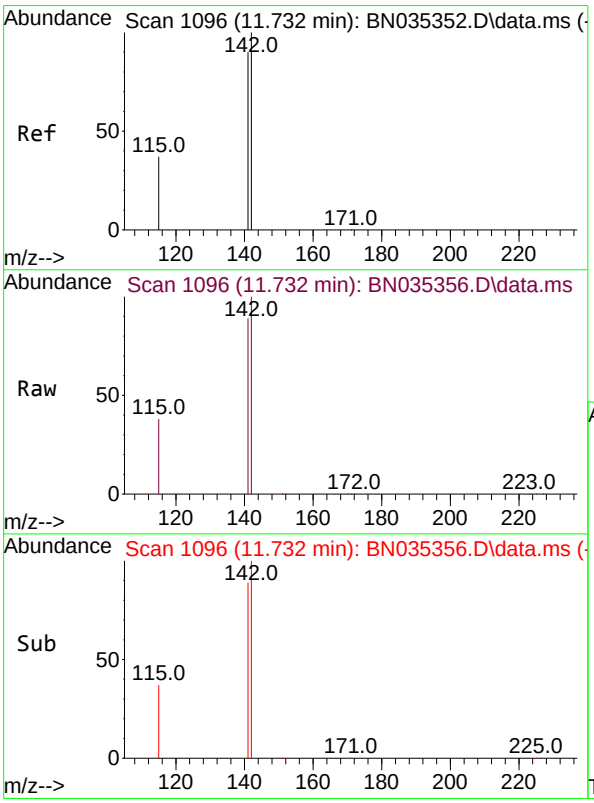
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 47612

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

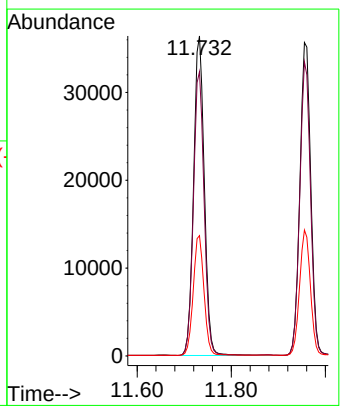


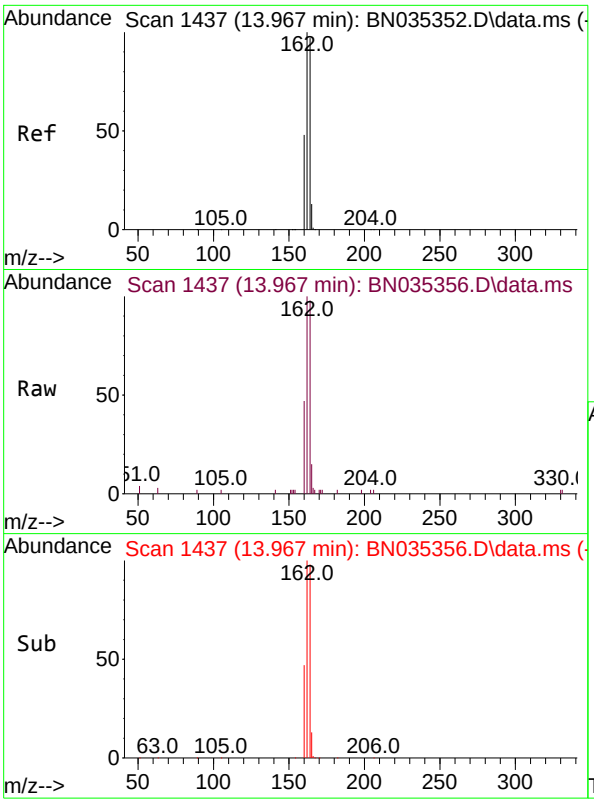


#12
2-Methylnaphthalene
Concen: 5.158 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:142 Resp: 57698

Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.2	108.4
115	37.6	31.4	47.0



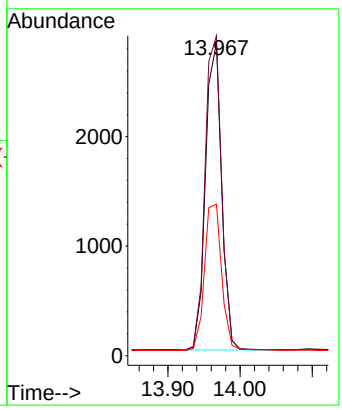


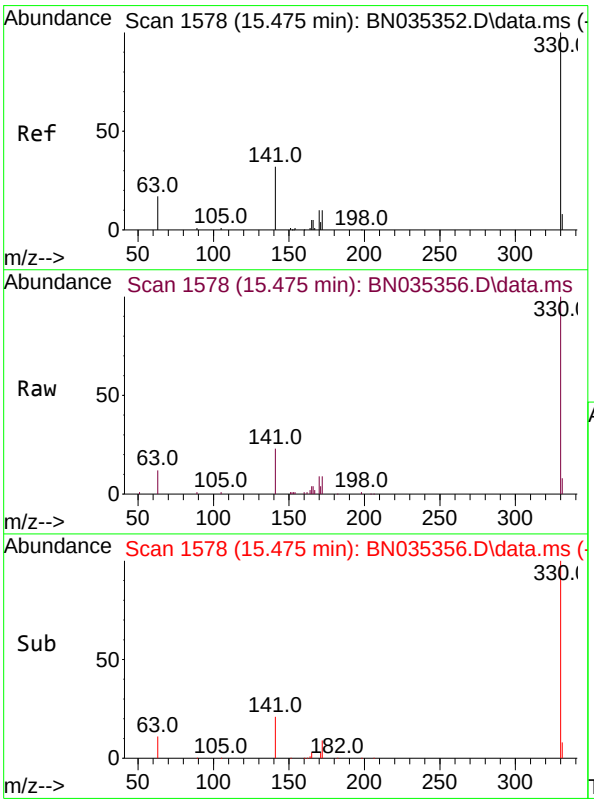
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 4363

Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.2	123.2
160	48.4	40.1	60.1

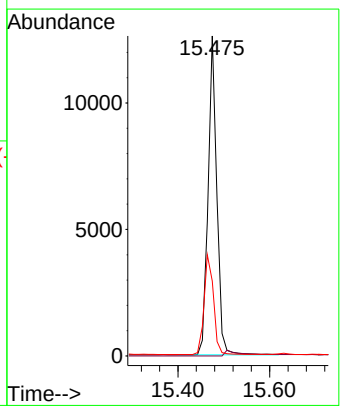


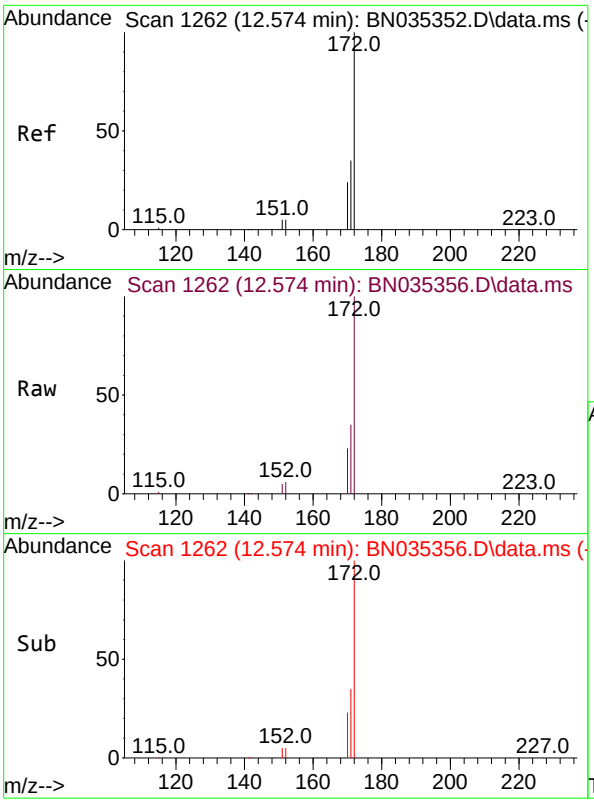


#14
2,4,6-Tribromophenol
Concen: 5.689 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:330 Resp: 17905

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



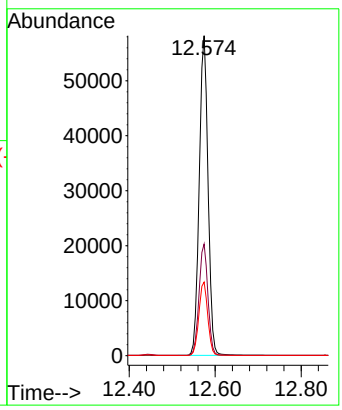


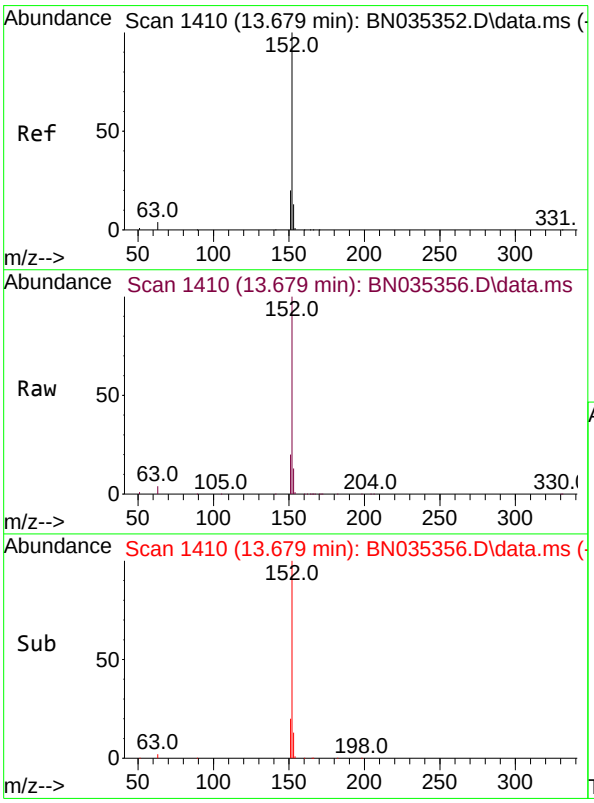
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 82401

Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.0	43.4
170	23.0	19.8	29.8

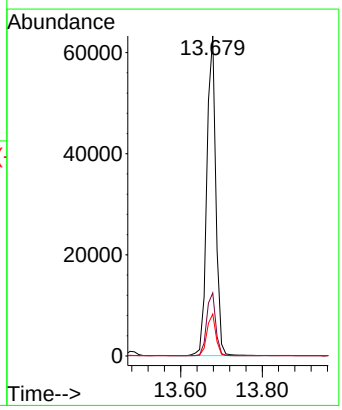


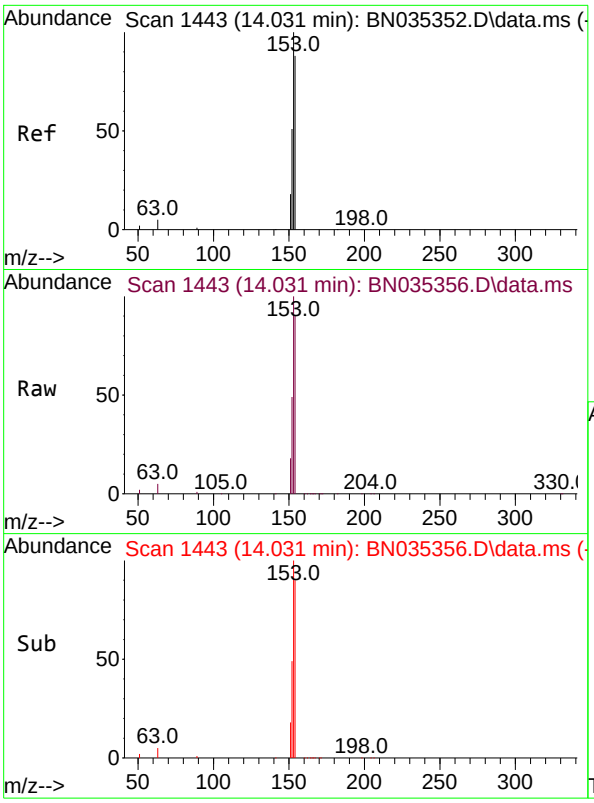


#16
Acenaphthylene
Concen: 5.209 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:152 Resp: 97129

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.9	10.4	15.6



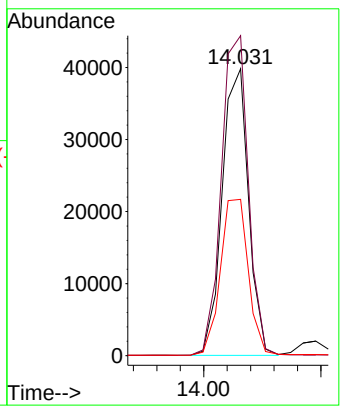


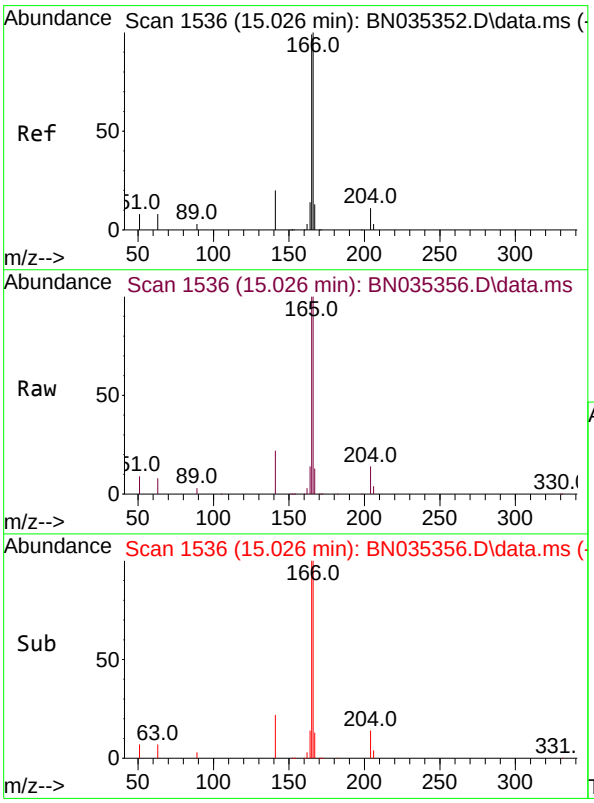
#17
Acenaphthene
Concen: 5.088 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 62170

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.1	49.0	73.6

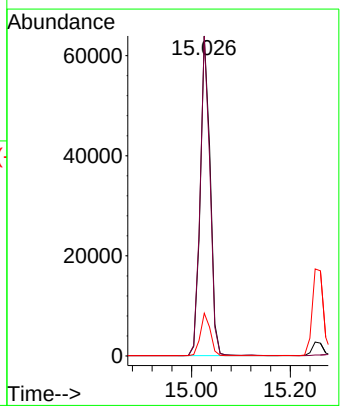


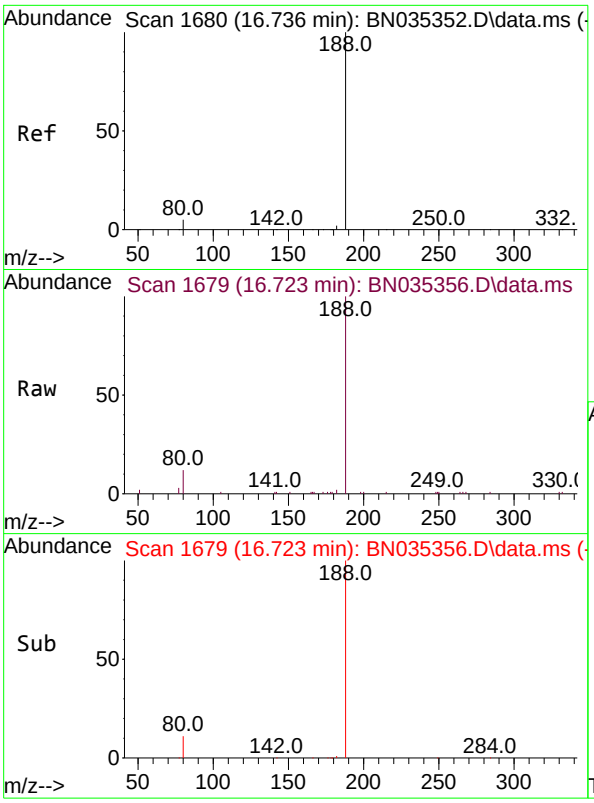


#18
Fluorene
Concen: 4.932 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:166 Resp: 88648

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



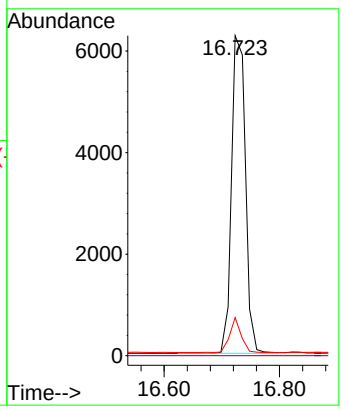


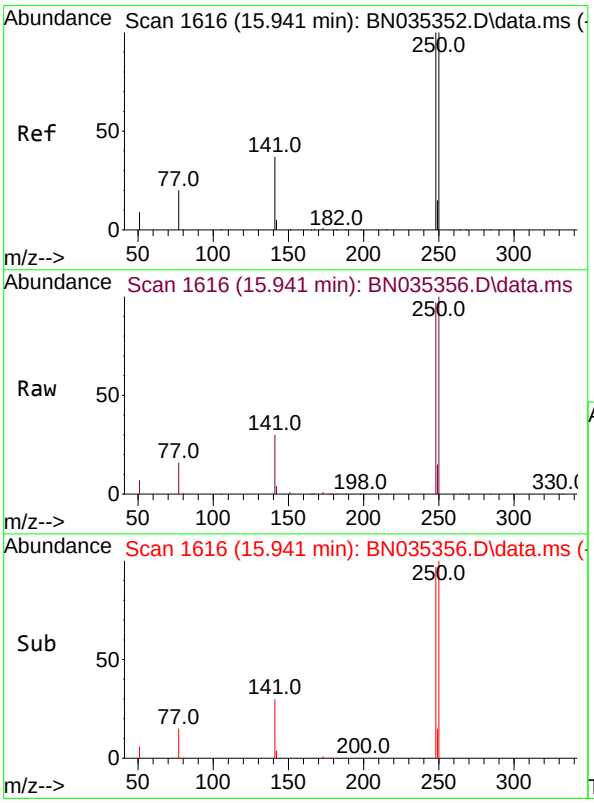
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 10479

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

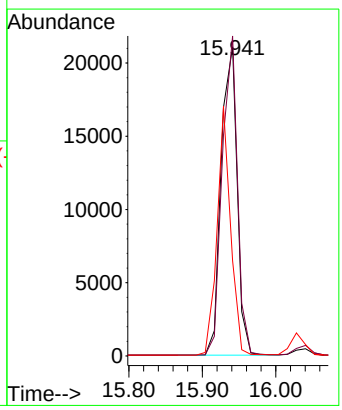


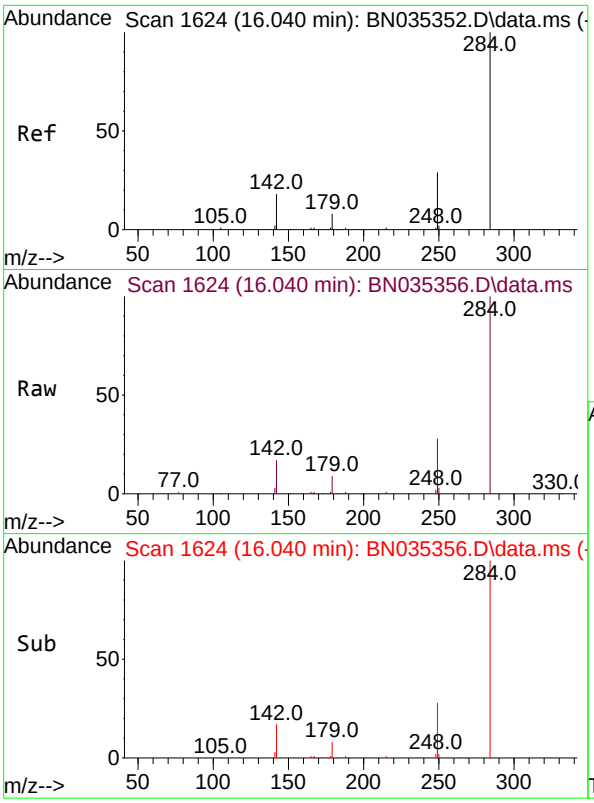


#21
4-Bromophenyl-phenylether
Concen: 4.785 ng
RT: 15.941 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:248 Resp: 31947

Ion	Ratio	Lower	Upper
248	100		
250	103.5	80.6	120.8
141	30.8	31.5	47.3#



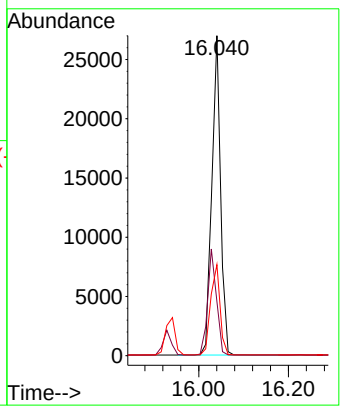


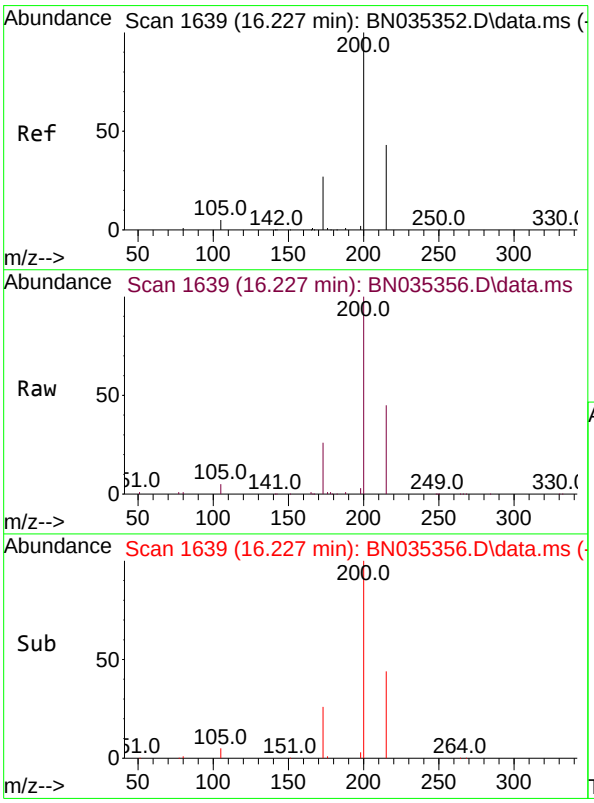
#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 36315

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.4	24.6	36.8

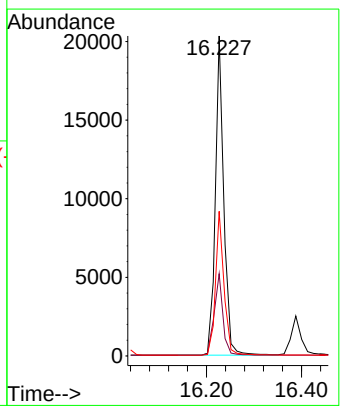


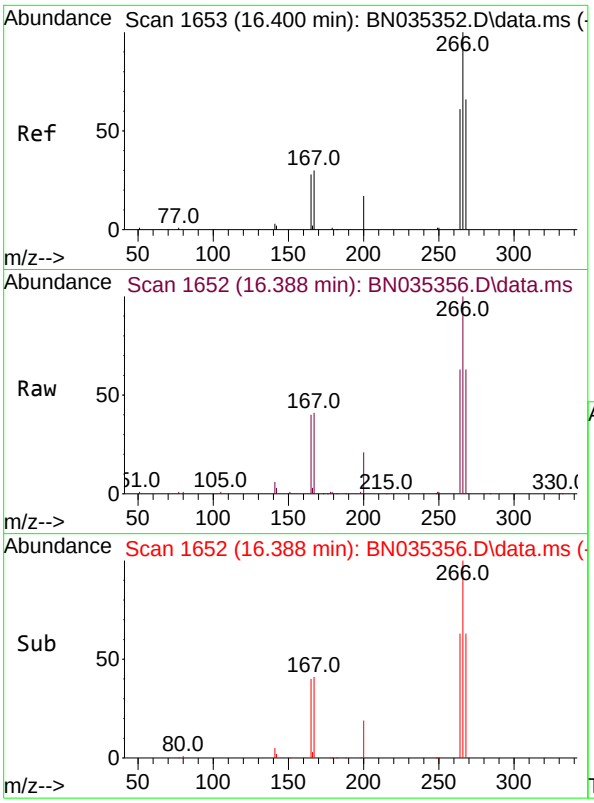


#23
Atrazine
Concen: 4.179 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:200 Resp: 25034

Ion	Ratio	Lower	Upper
200	100		
173	25.7	24.1	36.1
215	45.2	36.9	55.3



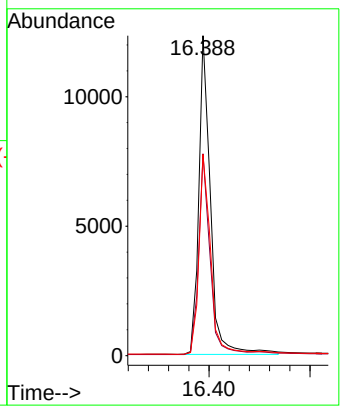


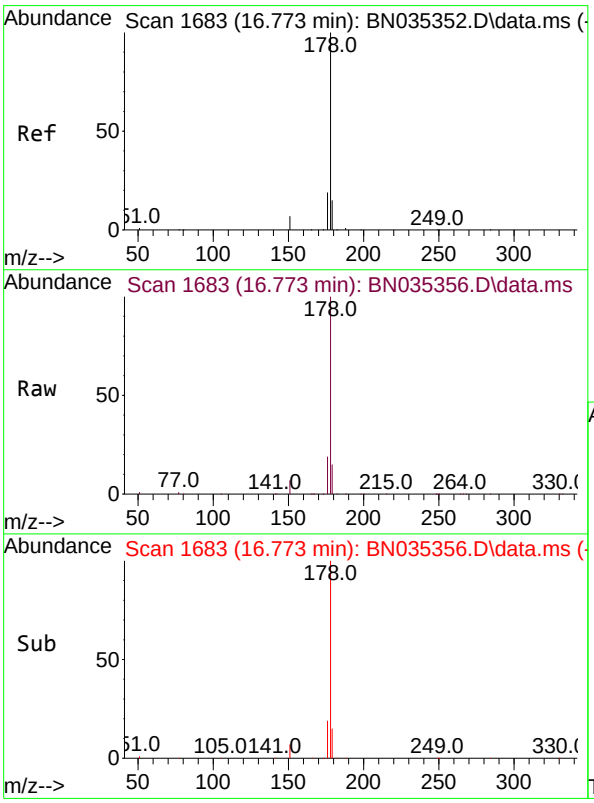
#24
Pentachlorophenol
Concen: 6.083 ng
RT: 16.388 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 19691

Ion	Ratio	Lower	Upper
266	100		
264	62.6	42.3	63.5
268	64.1	43.3	64.9

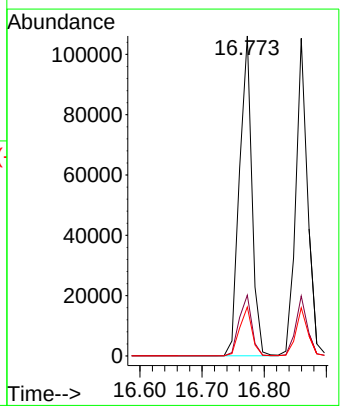


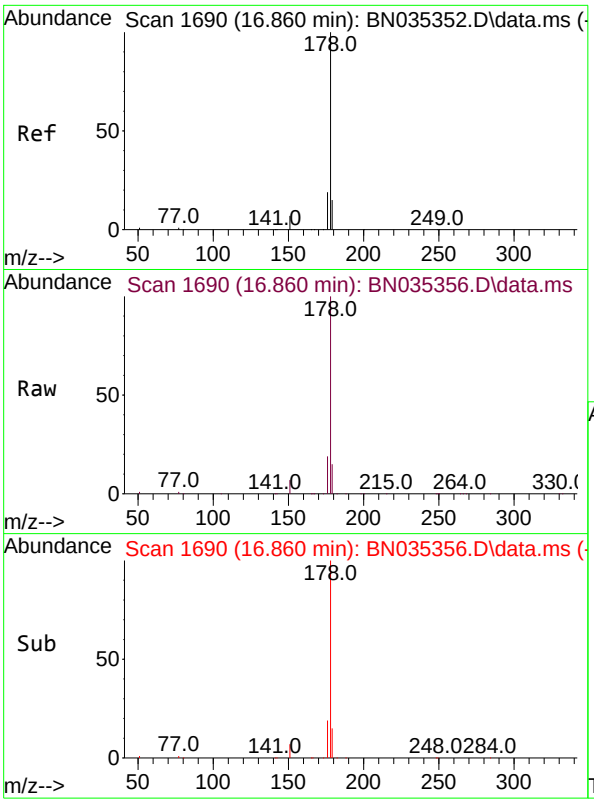


#25
Phenanthrene
Concen: 5.343 ng
RT: 16.773 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:178 Resp: 147357

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.2	12.3	18.5



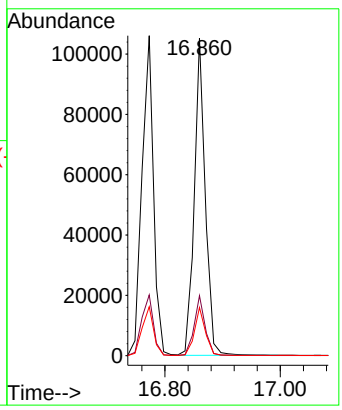


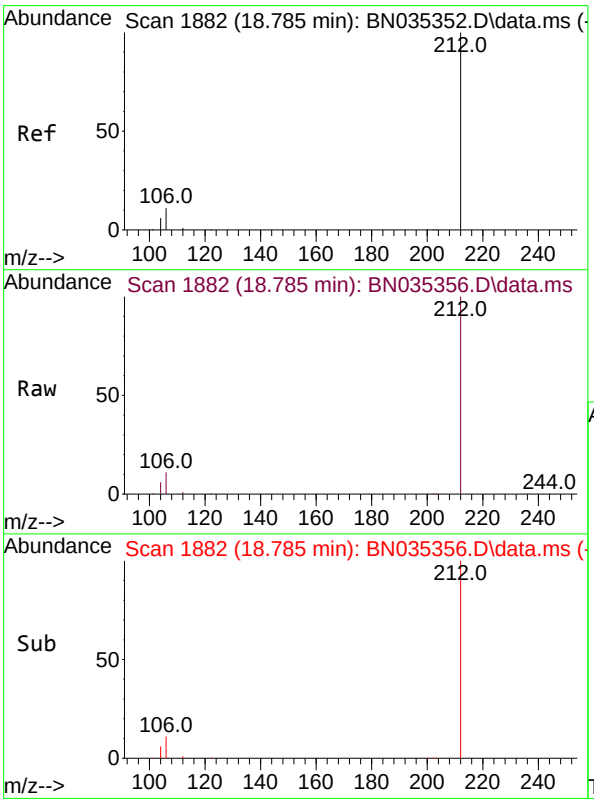
#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 139399

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.1	12.6	18.8

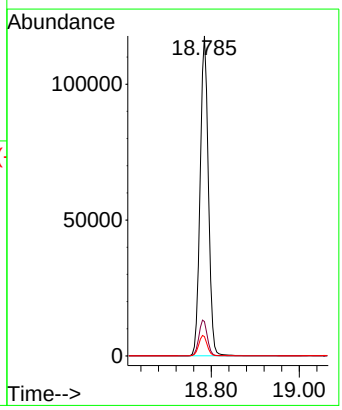


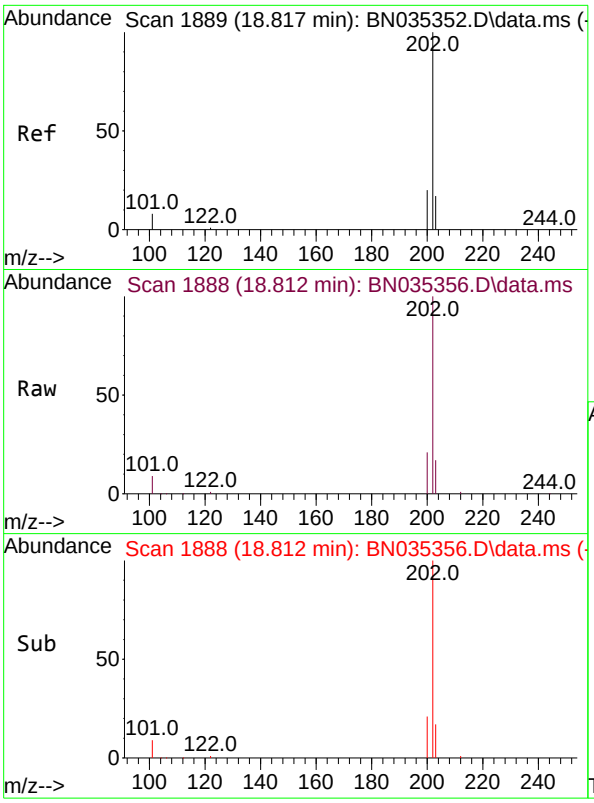


#27
Fluoranthene-d10
Concen: 4.748 ng
RT: 18.785 min Scan# 1882
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:212 Resp: 152416

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.5	5.3	7.9



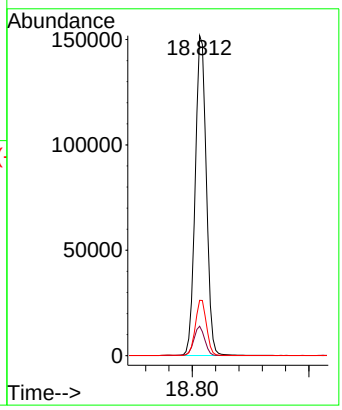


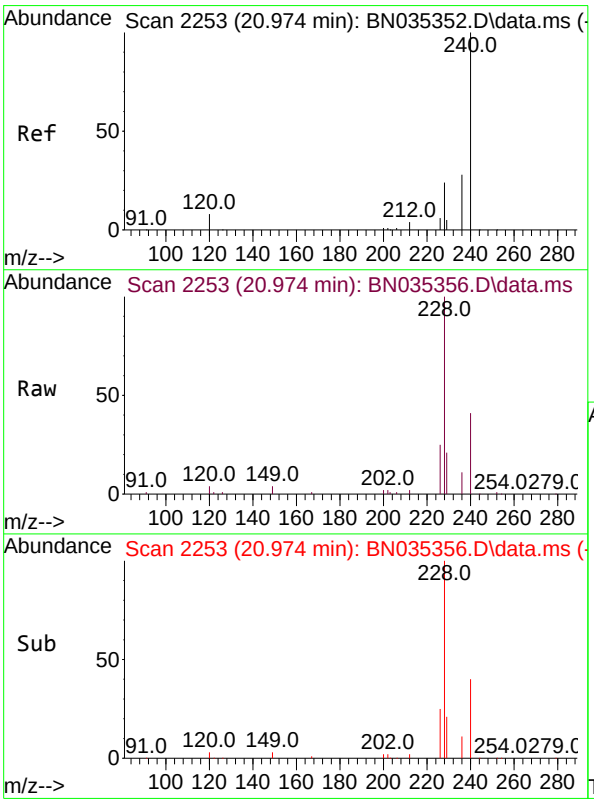
#28
Fluoranthene
Concen: 5.270 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 199850

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.4	13.7	20.5

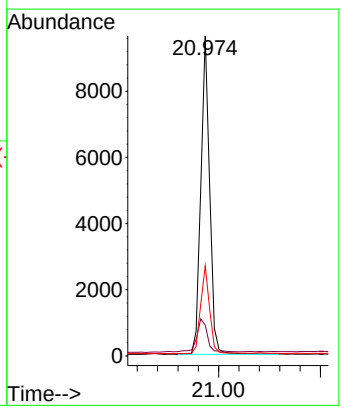


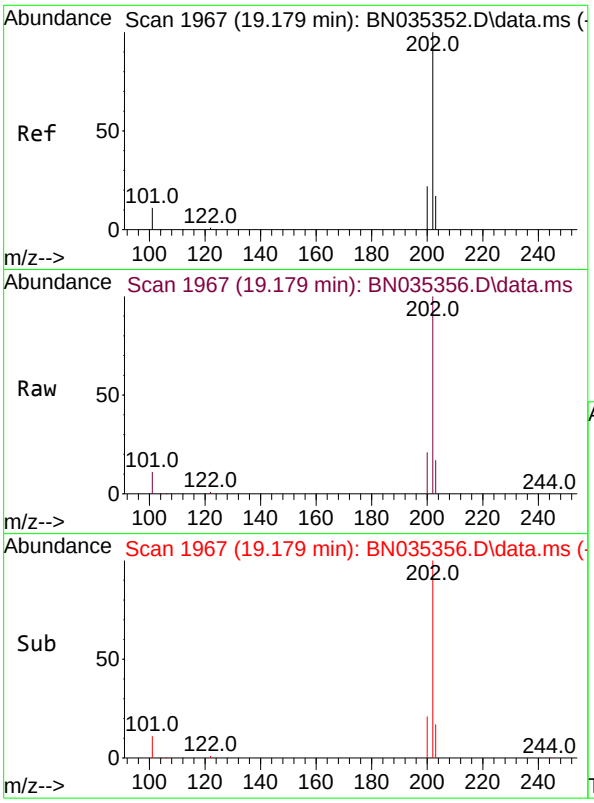


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:240 Resp: 11520

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.1	22.9	34.3



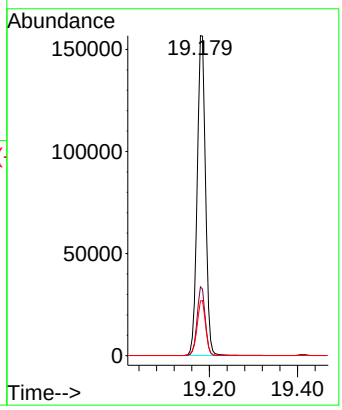


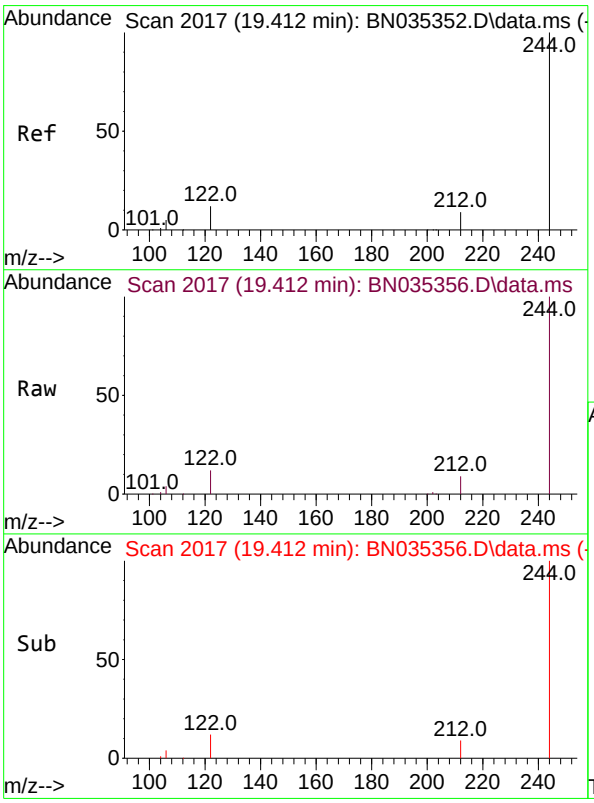
#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 206018

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

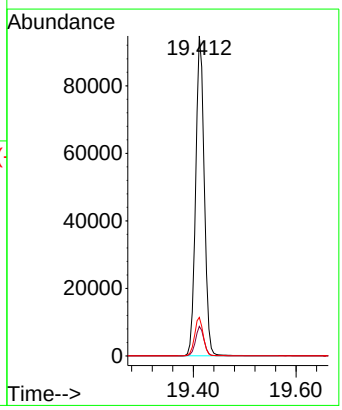


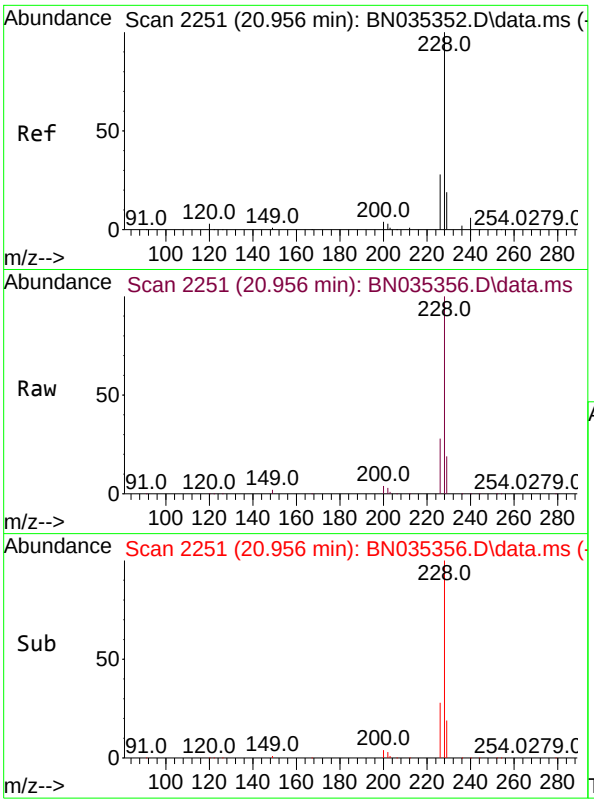


#31
Terphenyl-d14
Concen: 4.581 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:244 Resp: 110737

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



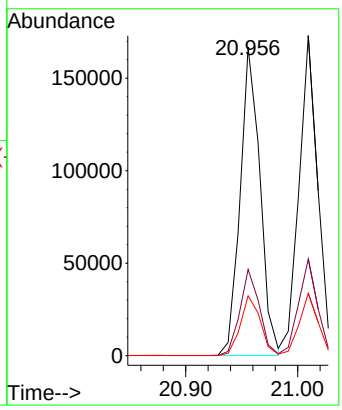


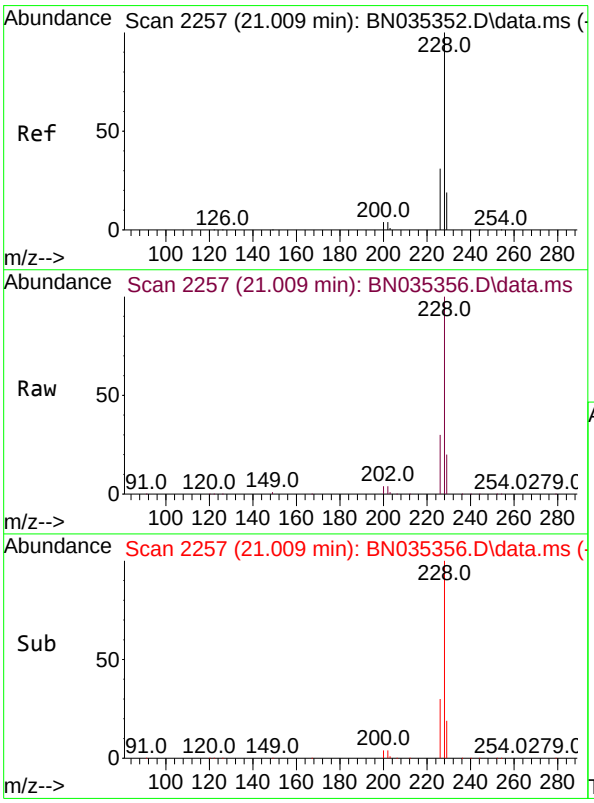
#32
Benzo(a)anthracene
Concen: 5.128 ng
RT: 20.956 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 205712

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.4	15.8	23.8

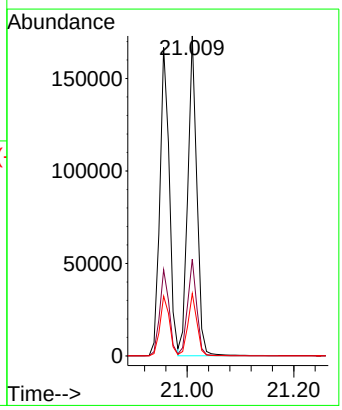


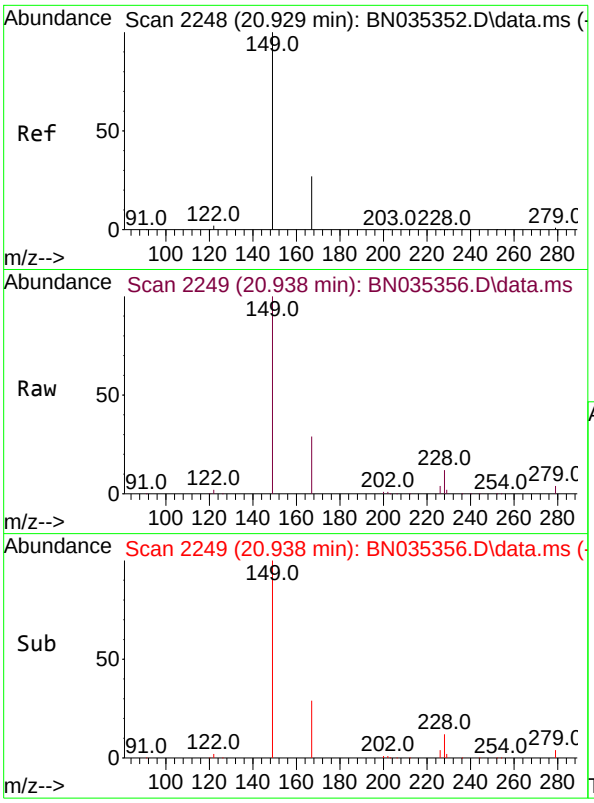


#33
Chrysene
Concen: 5.146 ng
RT: 21.009 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:228 Resp: 204475

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.5	15.9	23.9



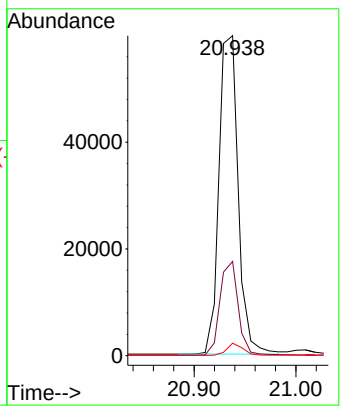


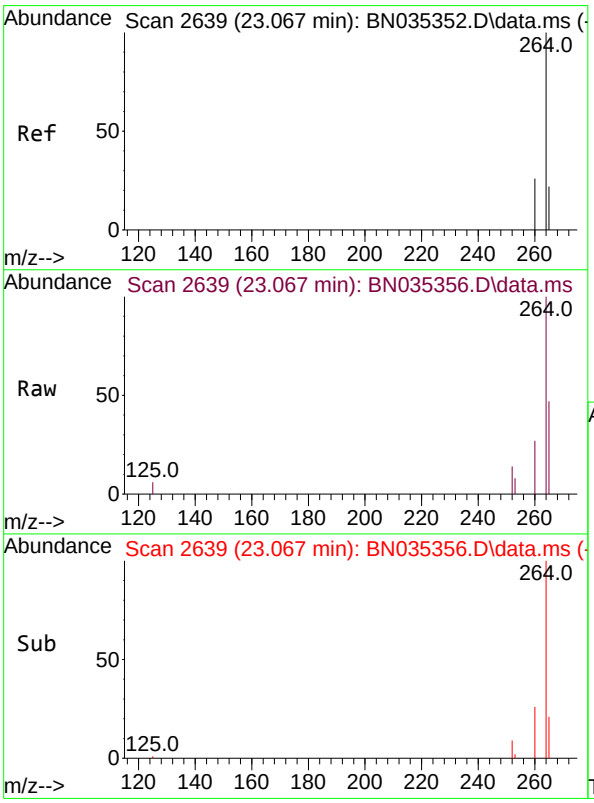
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 78322

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.2	2.7	4.1

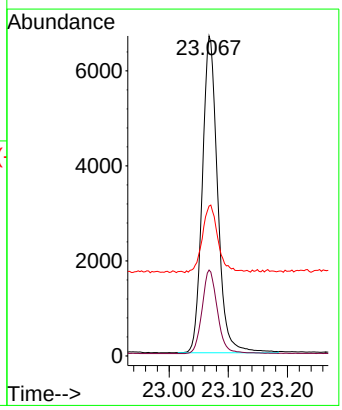


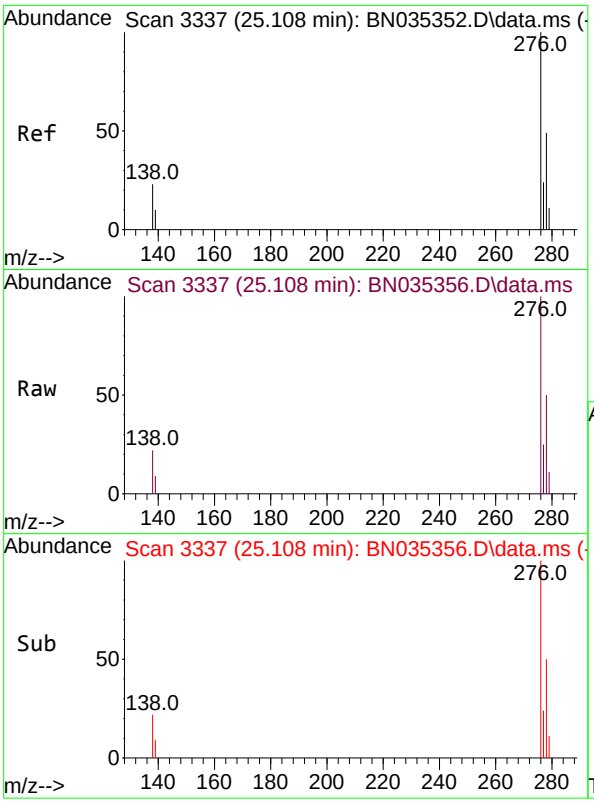


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:264 Resp: 12000

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



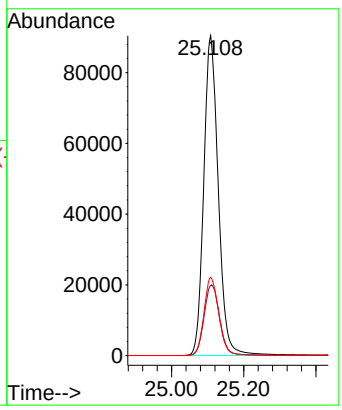


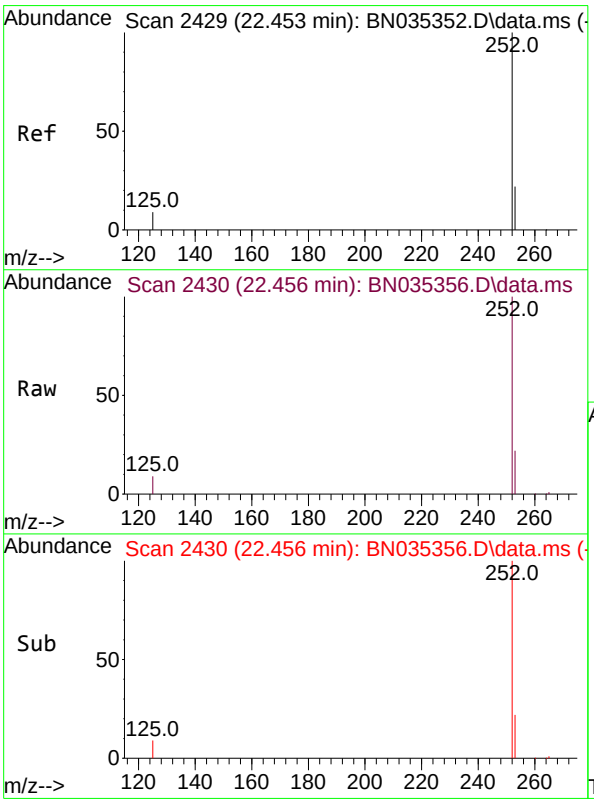
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 252709

Ion	Ratio	Lower	Upper
276	100		
138	23.7	19.4	29.0
277	25.0	19.8	29.6

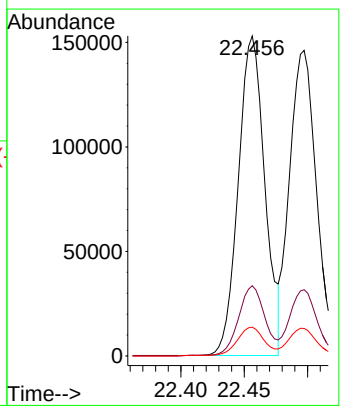


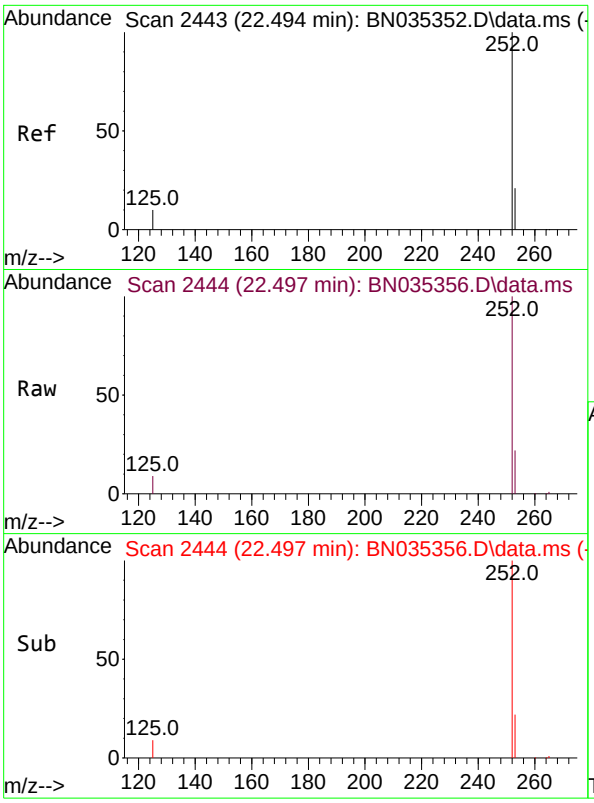


#37
Benzo(b)fluoranthene
Concen: 5.974 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 241201

Ion	Ratio	Lower	Upper
252	100		
253	22.0	19.6	29.4
125	9.0	9.6	14.4#



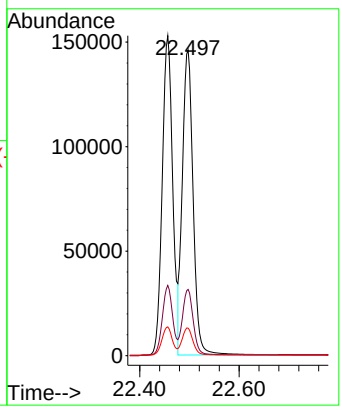


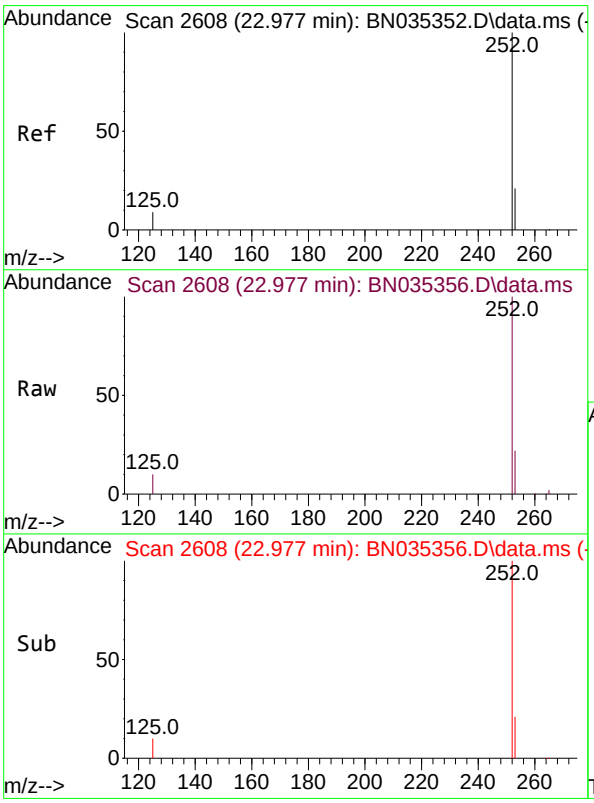
#38
Benzo(k)fluoranthene
Concen: 5.449 ng
RT: 22.497 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 220146

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.5	29.3
125	9.0	10.2	15.4#

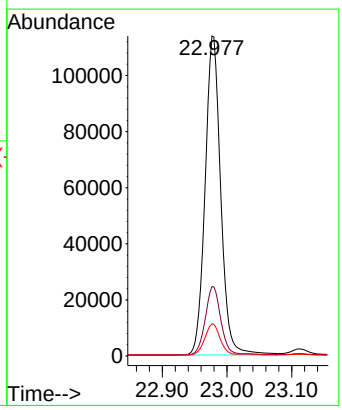


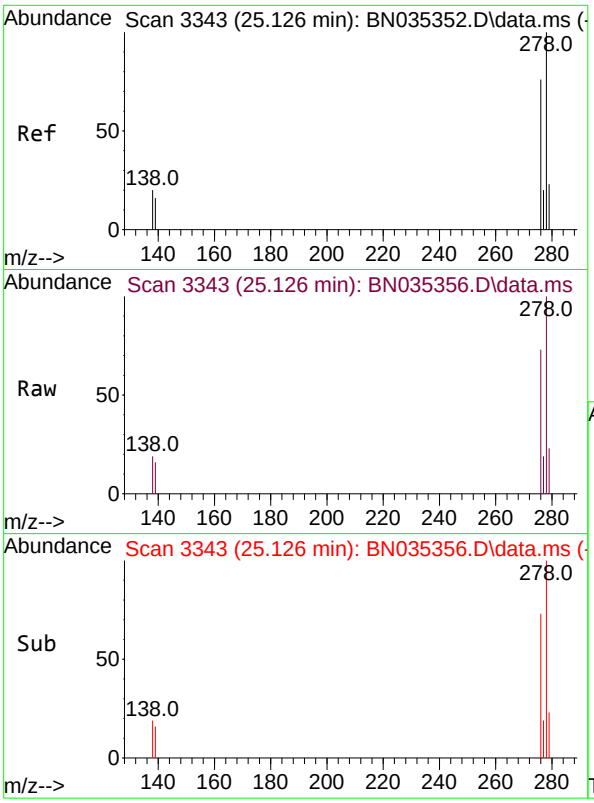


#39
Benzo(a)pyrene
Concen: 5.367 ng
RT: 22.977 min Scan# 2608
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:252 Resp: 190665

Ion	Ratio	Lower	Upper
252	100		
253	21.6	20.2	30.4
125	10.0	10.9	16.3#



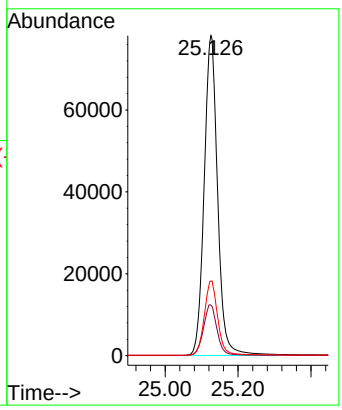


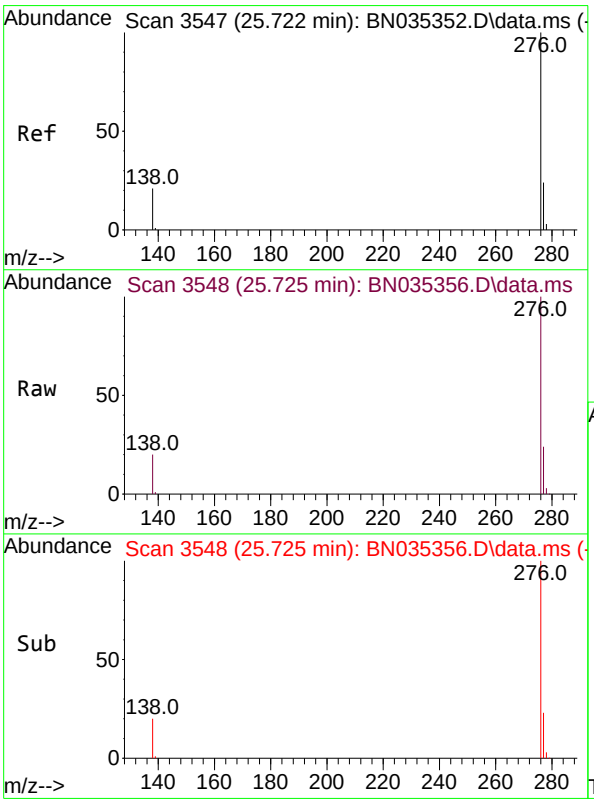
#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 199852

Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.2	21.4
279	23.3	20.5	30.7

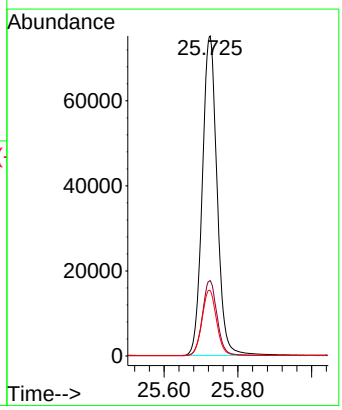




#41
Benzo(g,h,i)perylene
Concen: 5.183 ng
RT: 25.725 min Scan# 3548
Delta R.T. 0.003 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Tgt Ion:276 Resp: 209119

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.9	29.9
138	20.4	17.8	26.8



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

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

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	938m	0.393	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

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

ICAL Form

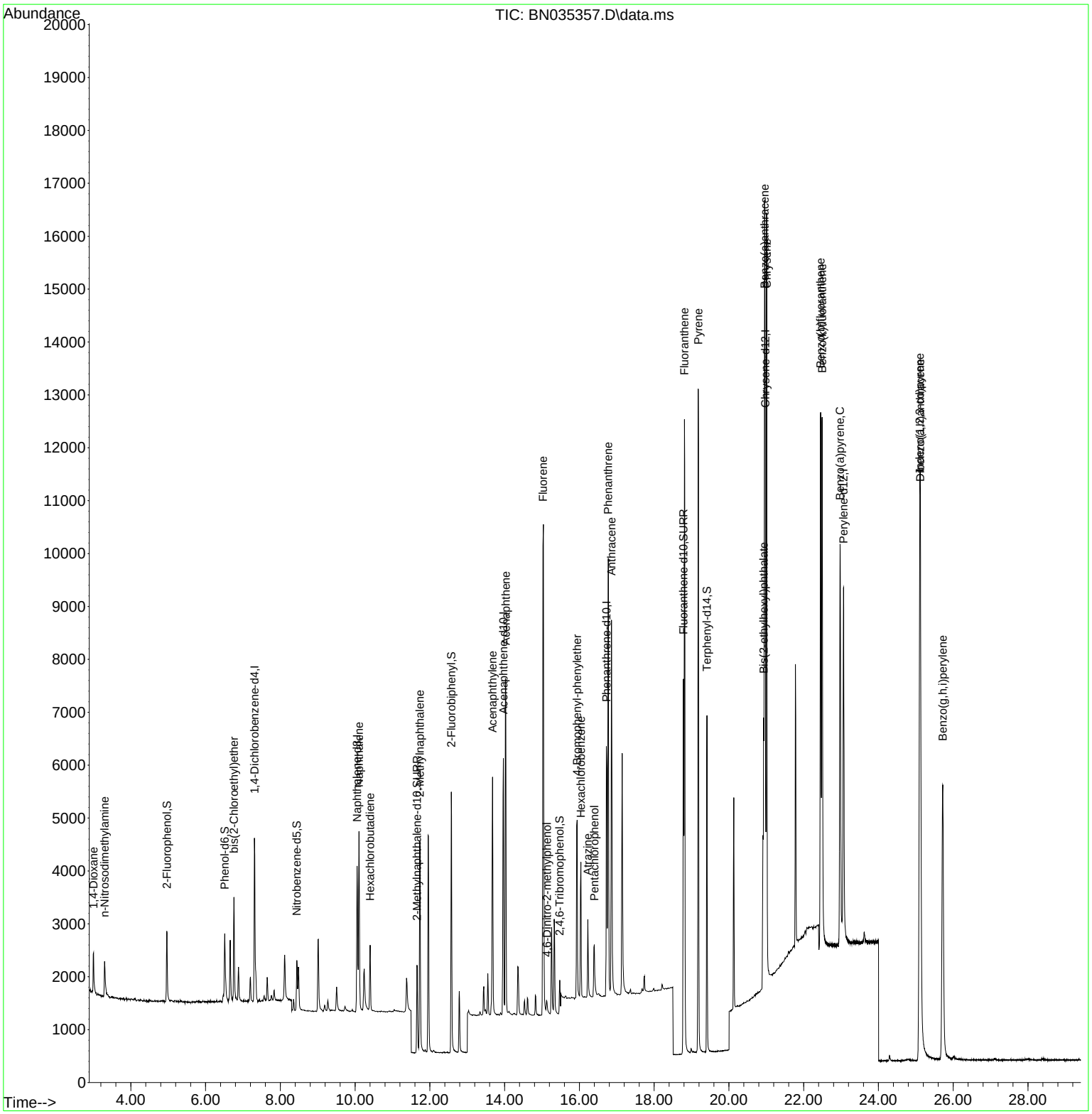
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

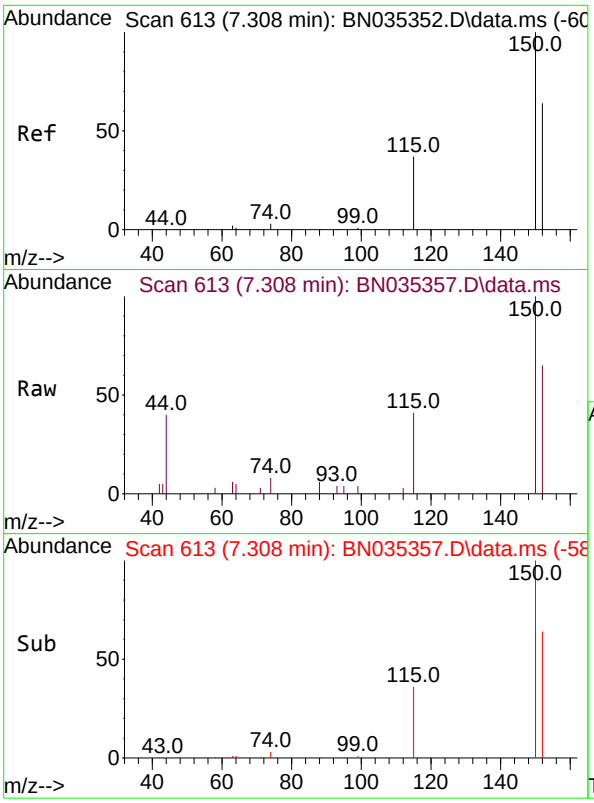
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

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

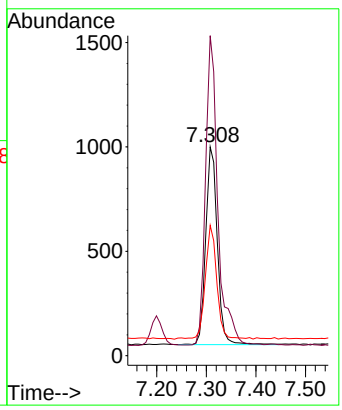




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 154

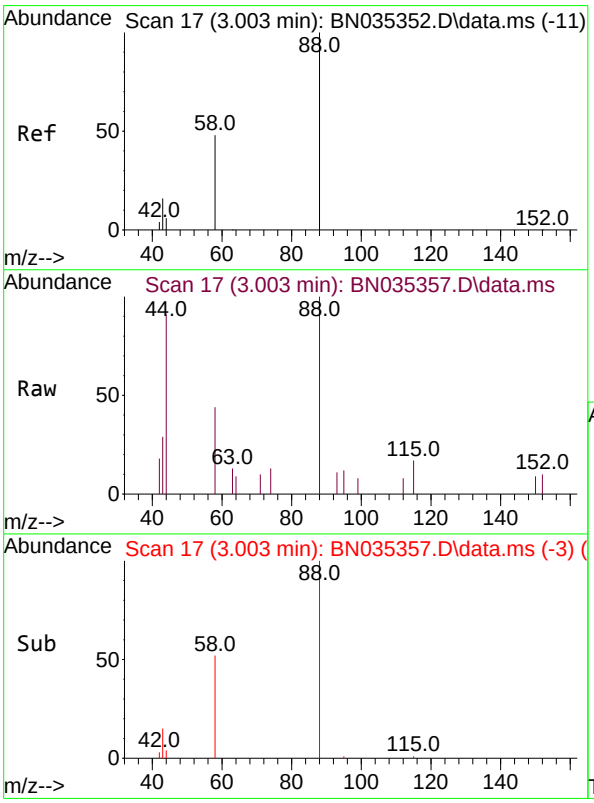
Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

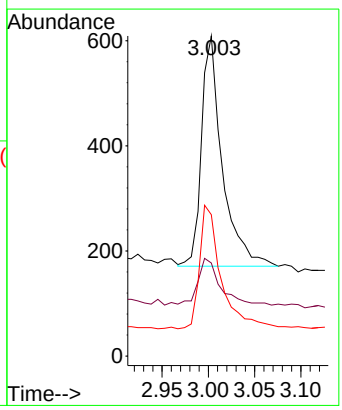
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

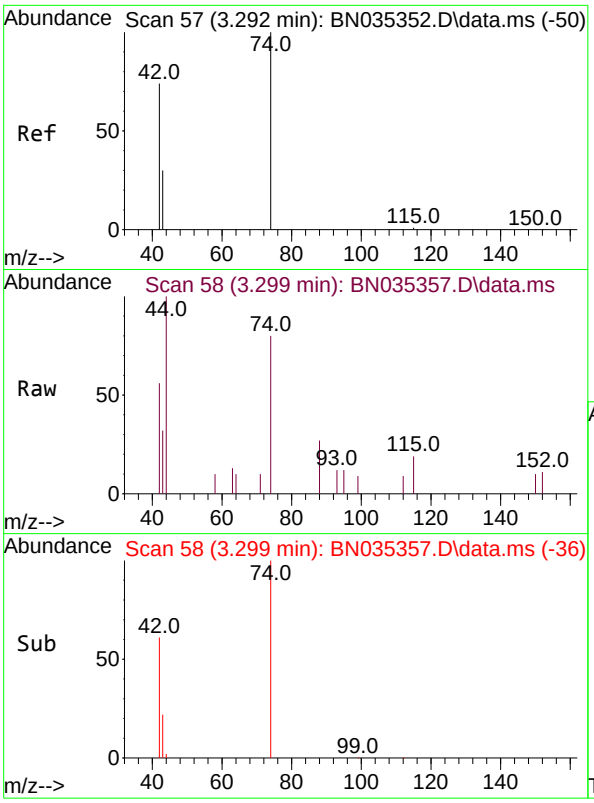


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7

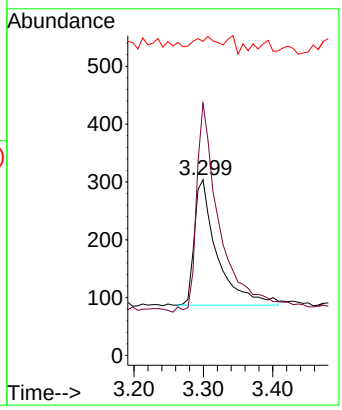




#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 42 Resp: 49

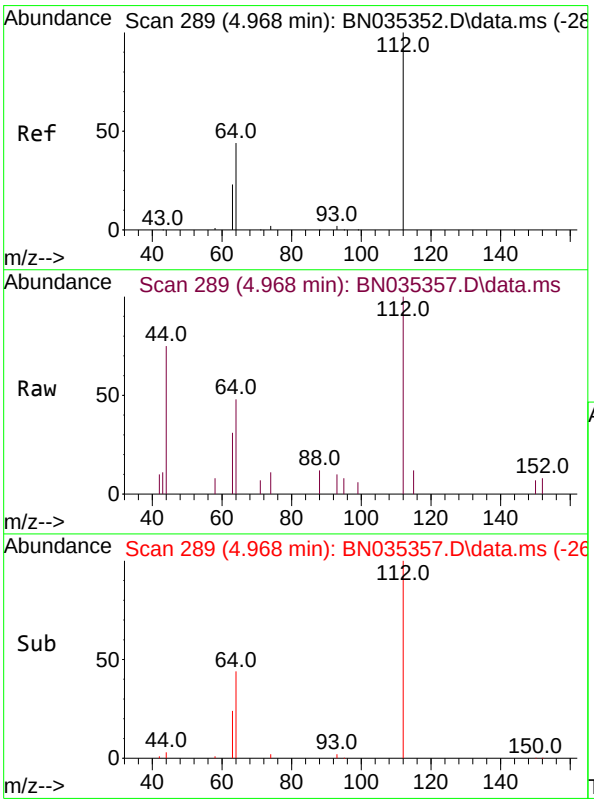
Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

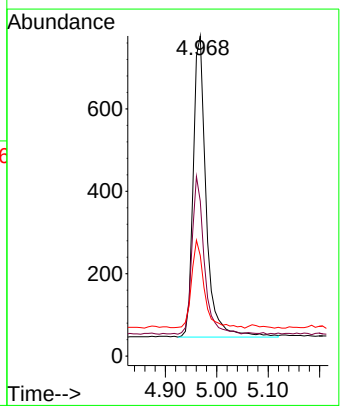
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

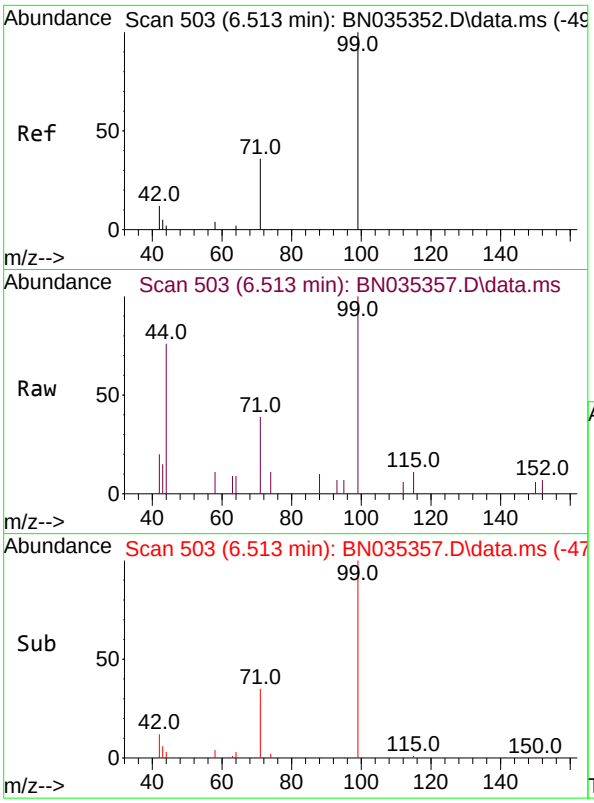


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6

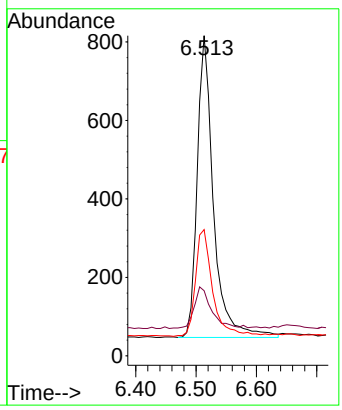




#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 99 Resp: 143

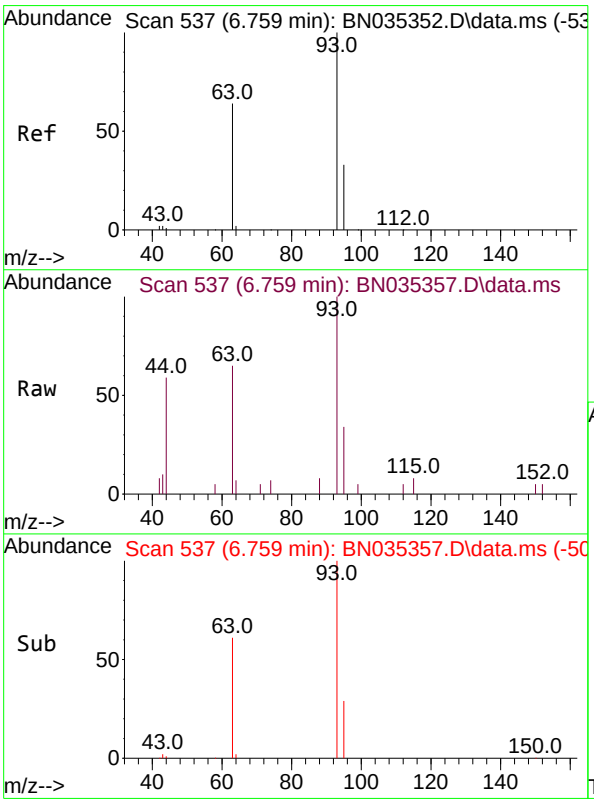
Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

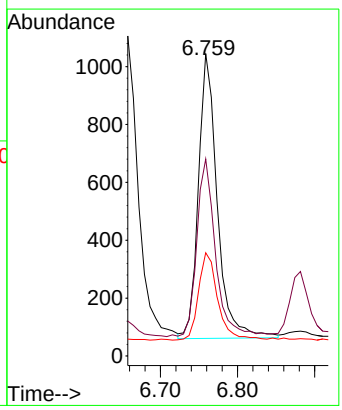
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

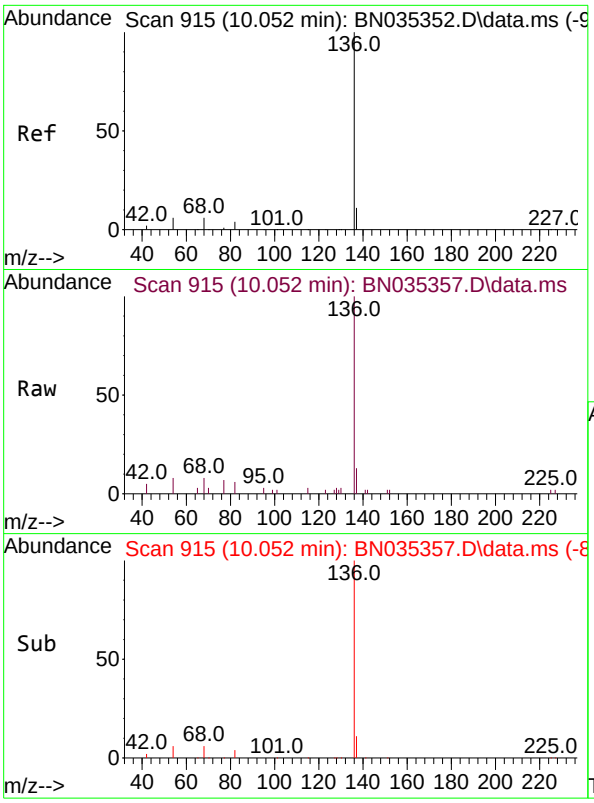


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

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

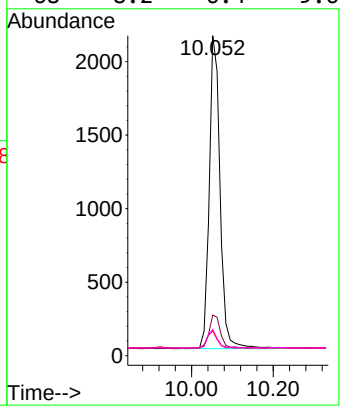




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:136 Resp: 390

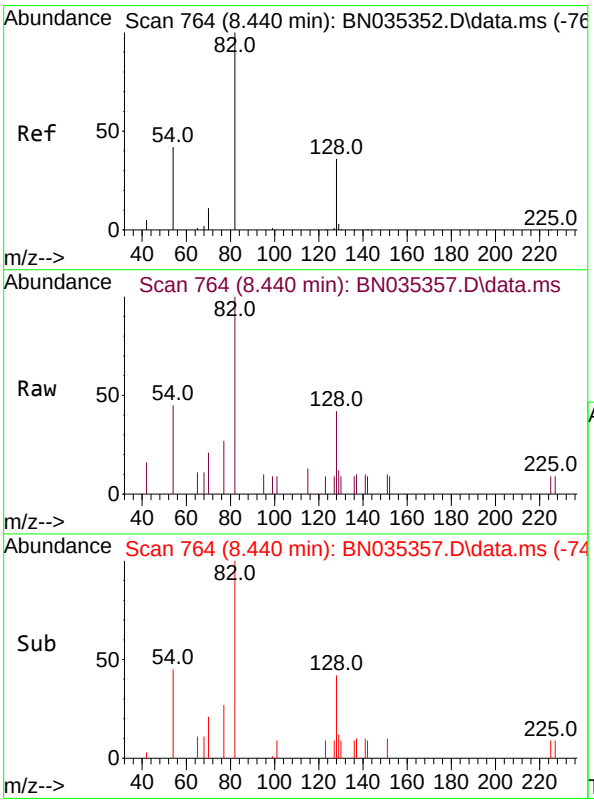
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

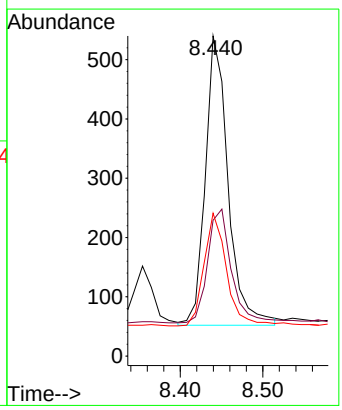
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

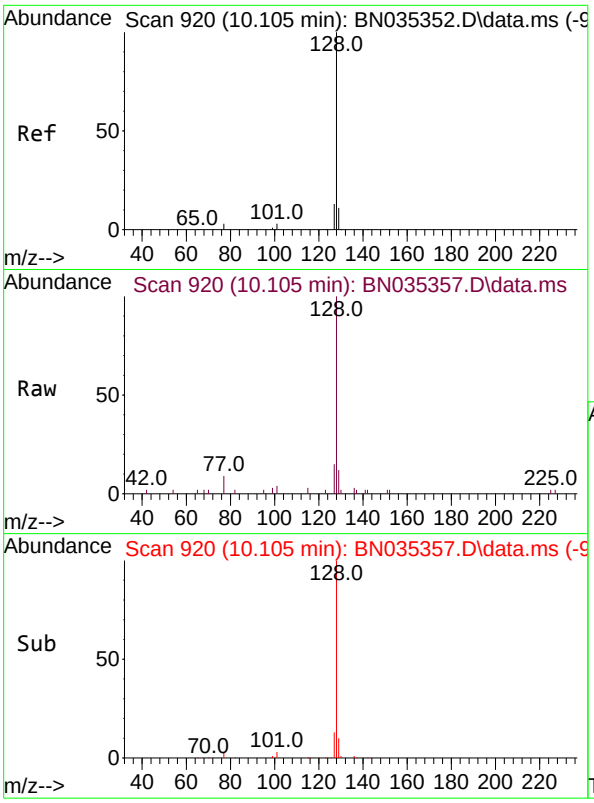


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 938

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1

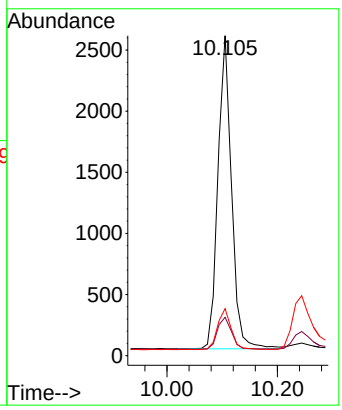




#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:128 Resp: 436

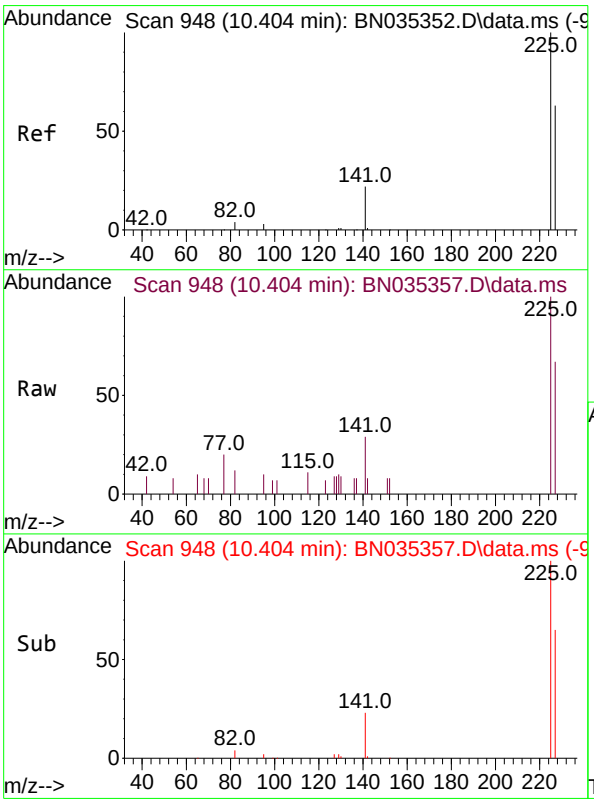
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

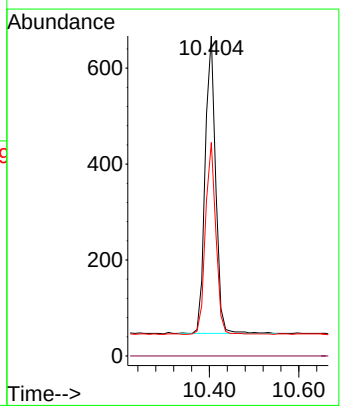
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

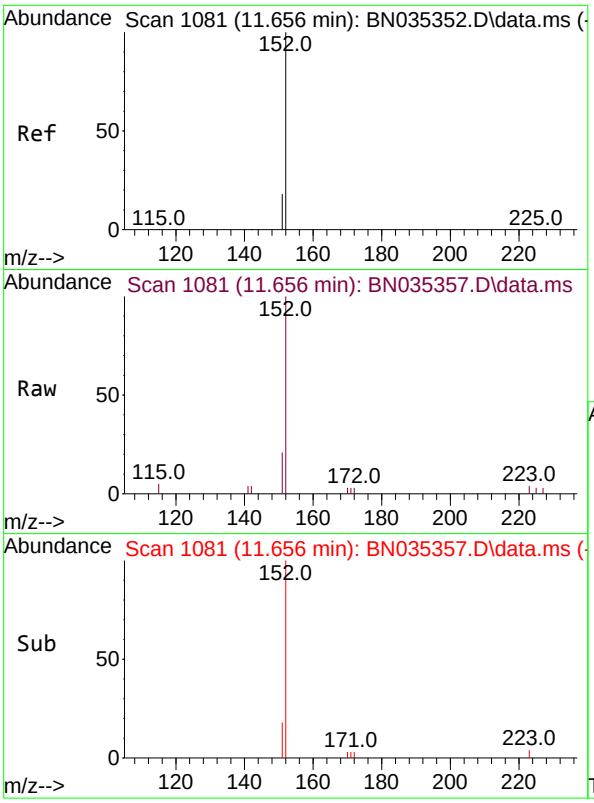


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9





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

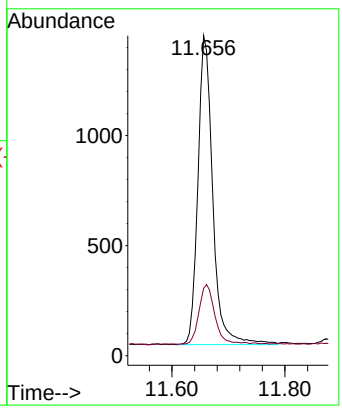
Tgt Ion:152 Resp: 256

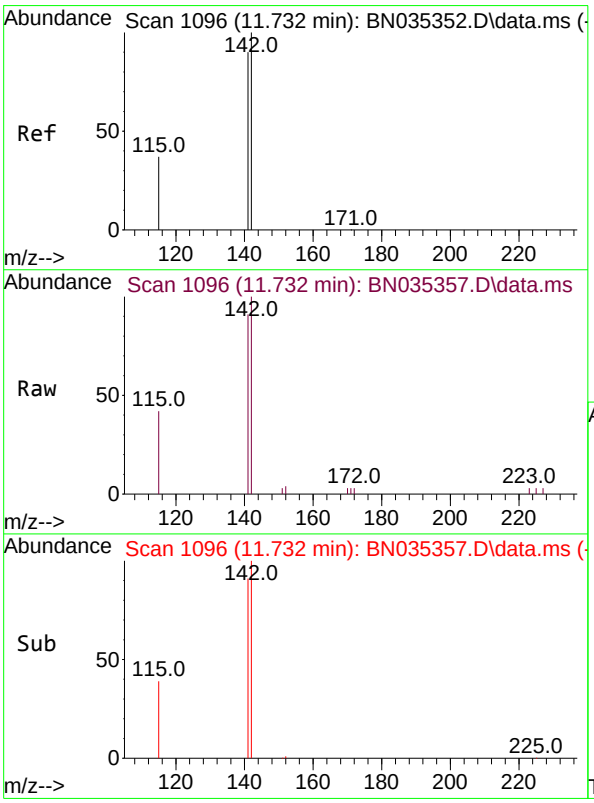
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

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

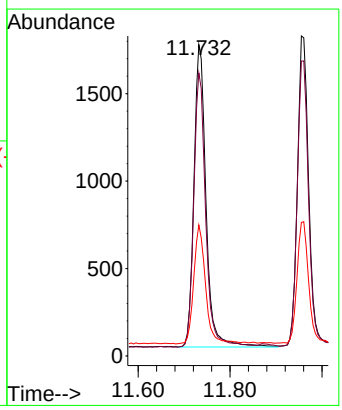


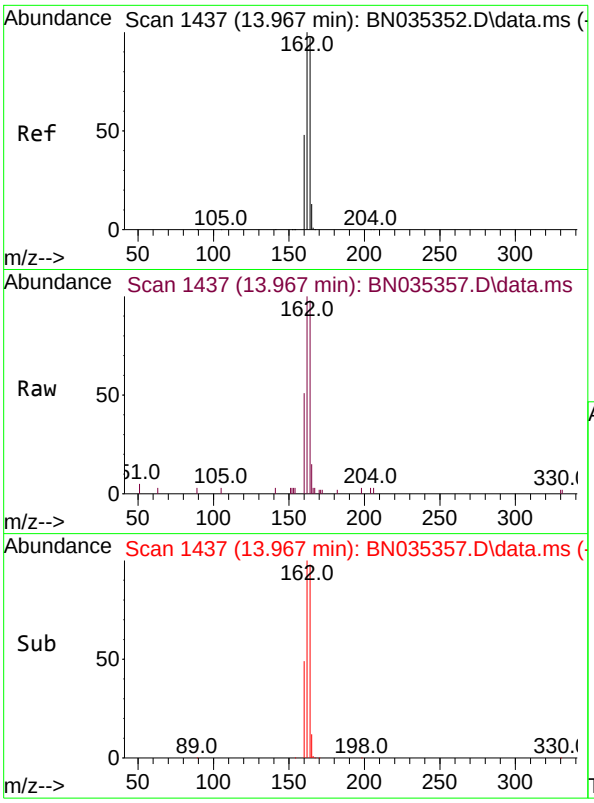


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0

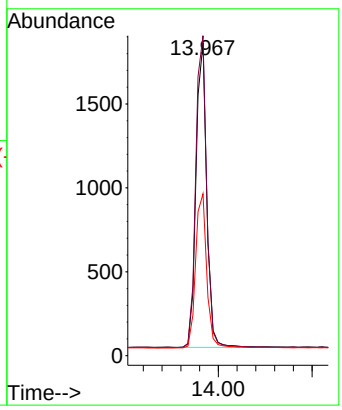




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:164 Resp: 287

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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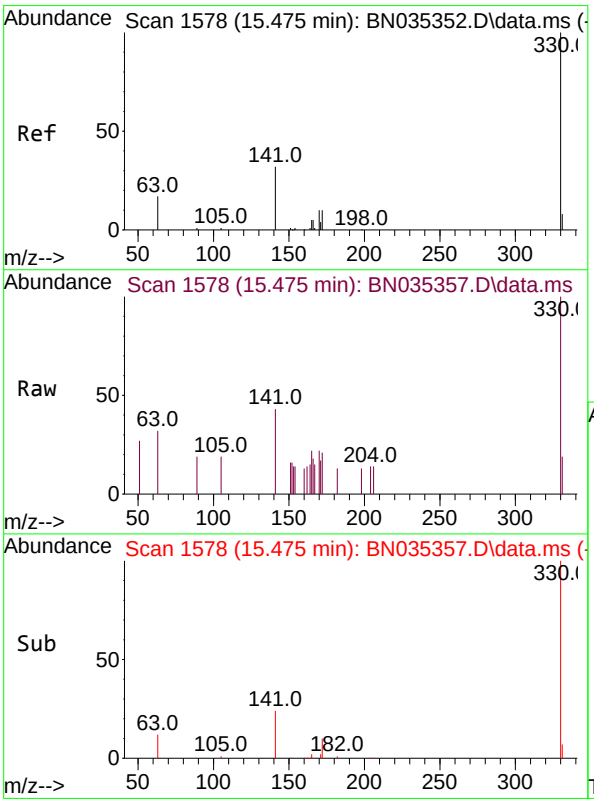
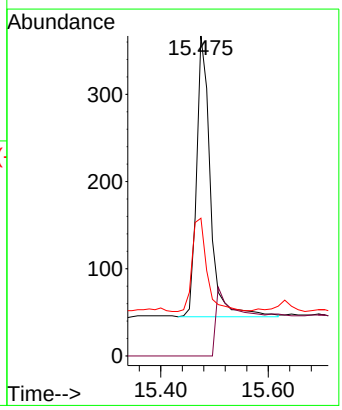
Supervised By :mohammad ahmed 12/03/2024

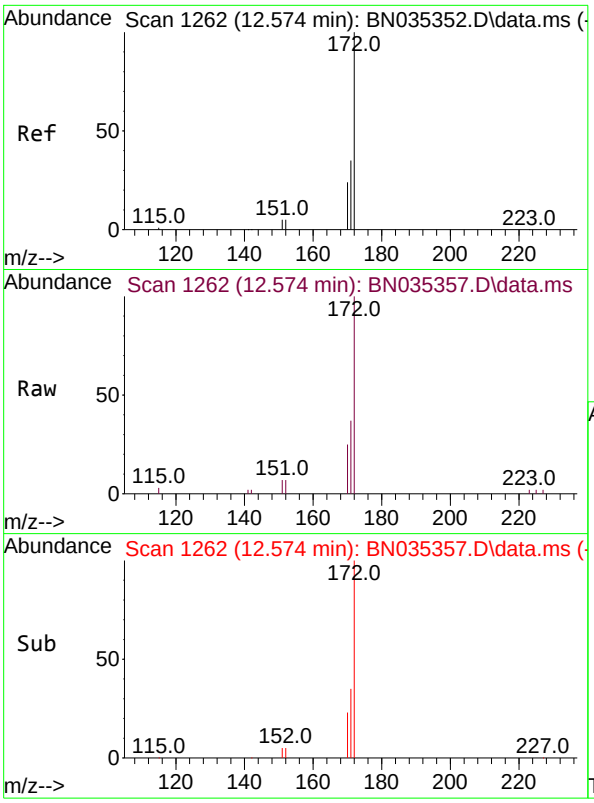


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

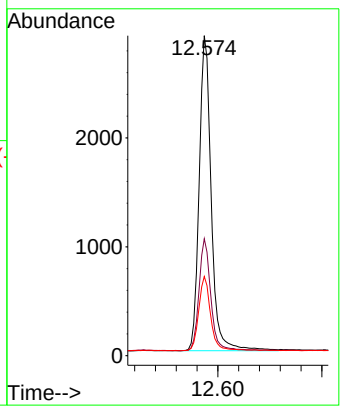




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:172 Resp: 464

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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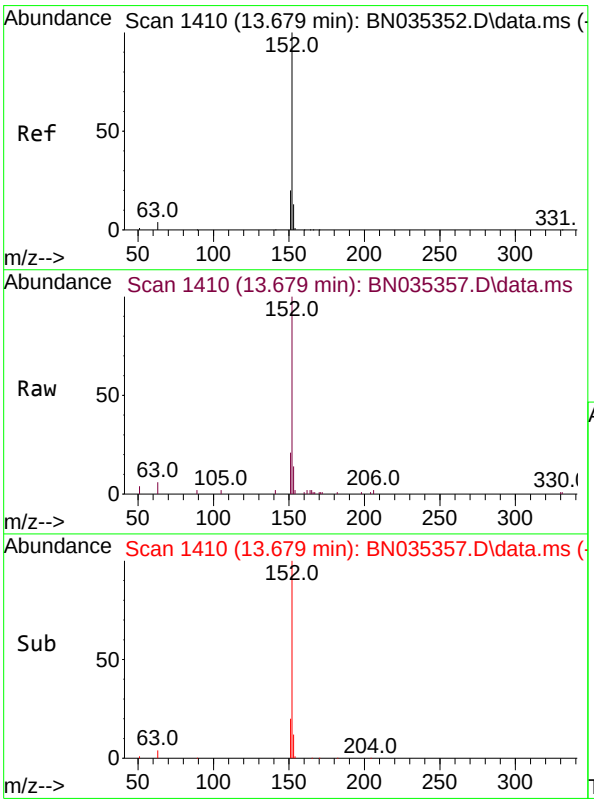
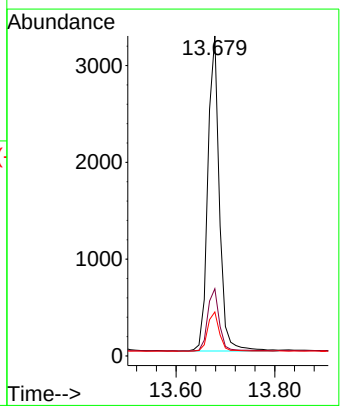
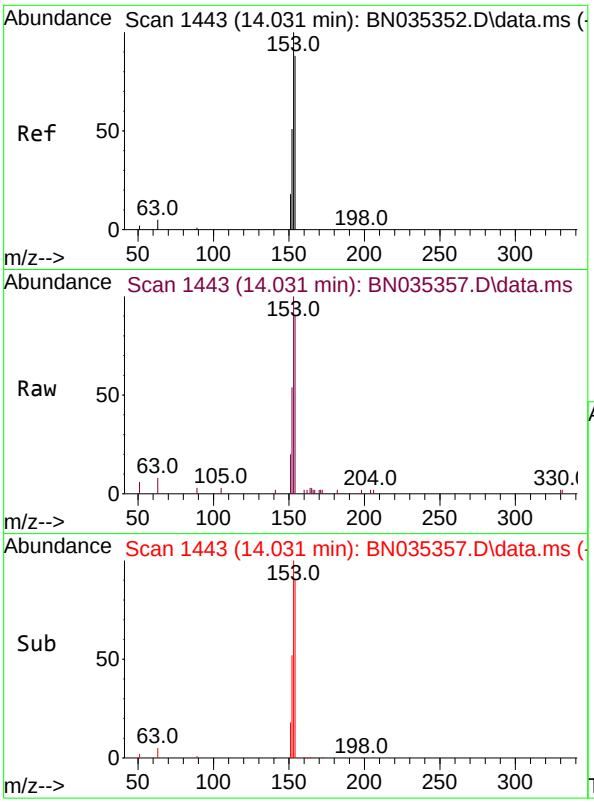


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6

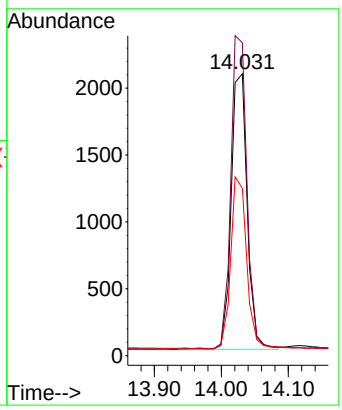




#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:154 Resp: 342

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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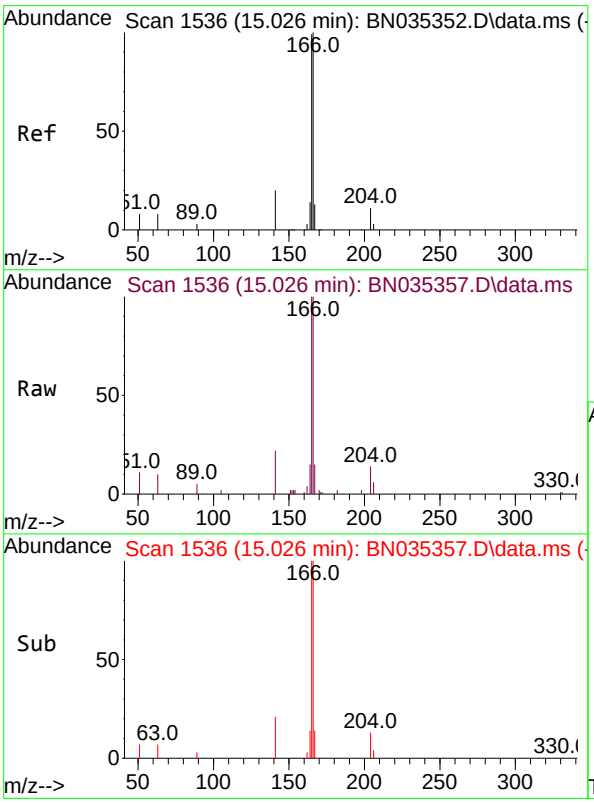
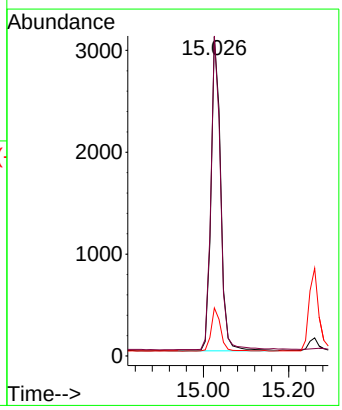
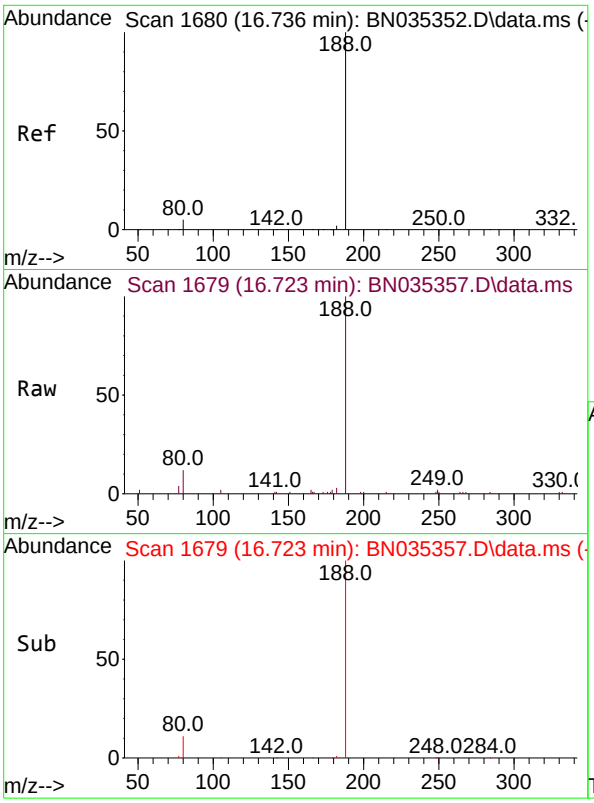


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2

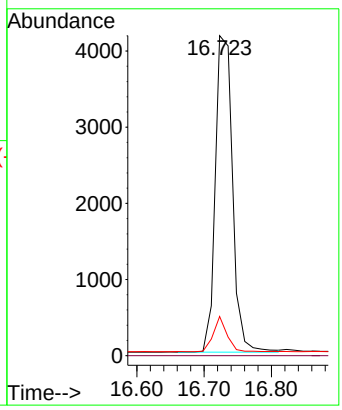




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:188 Resp: 735(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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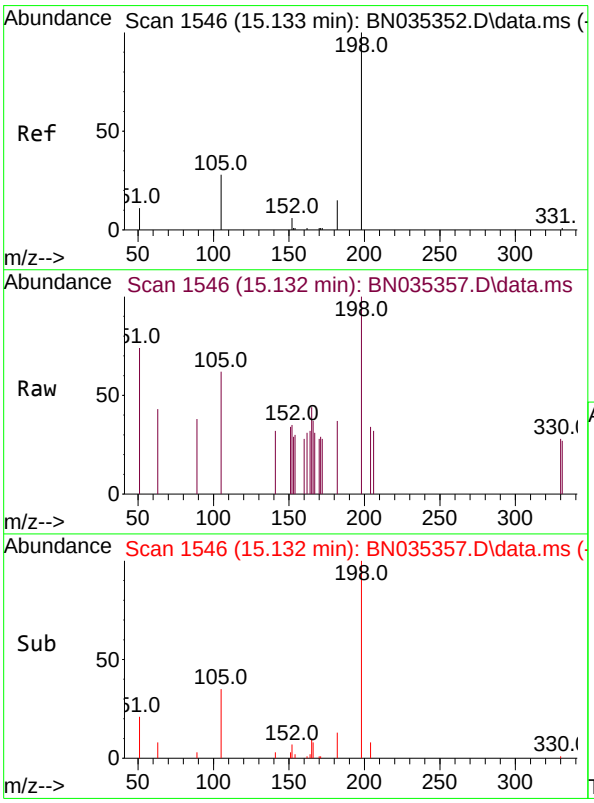
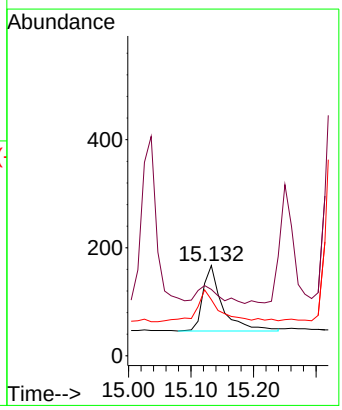
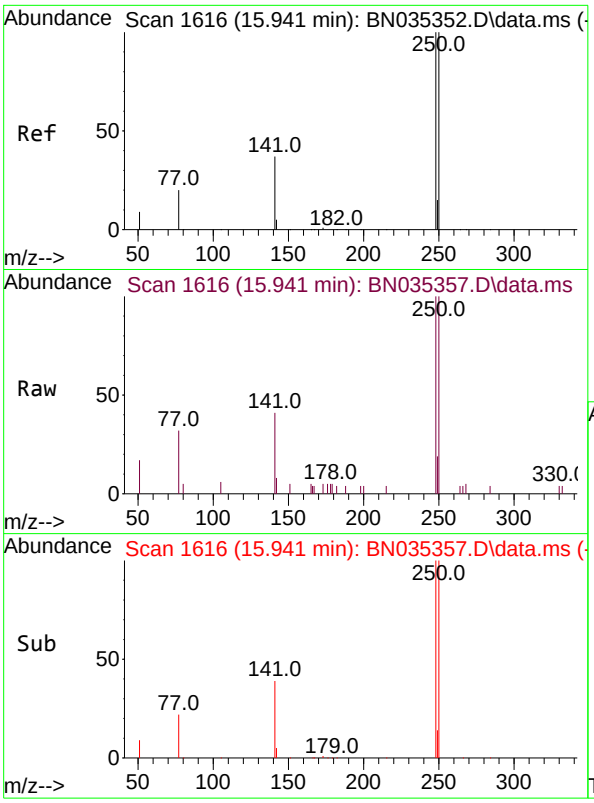


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9

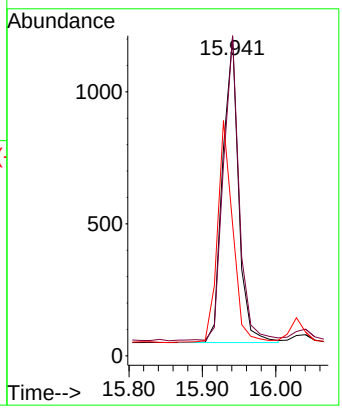




#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:248 Resp: 174

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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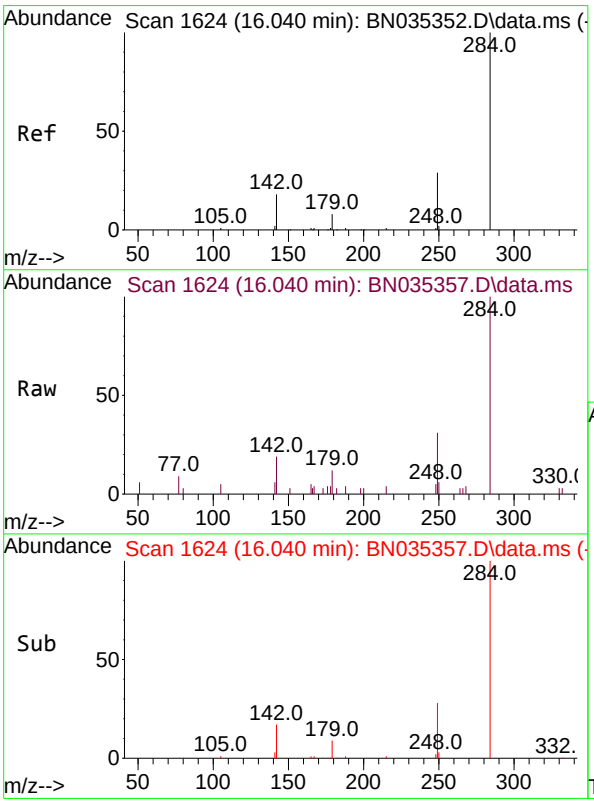
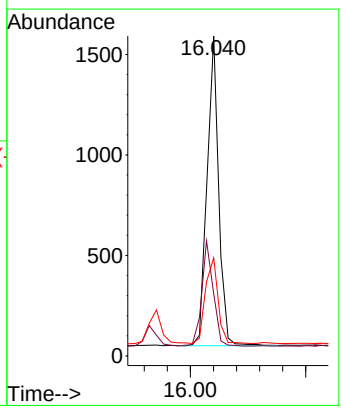
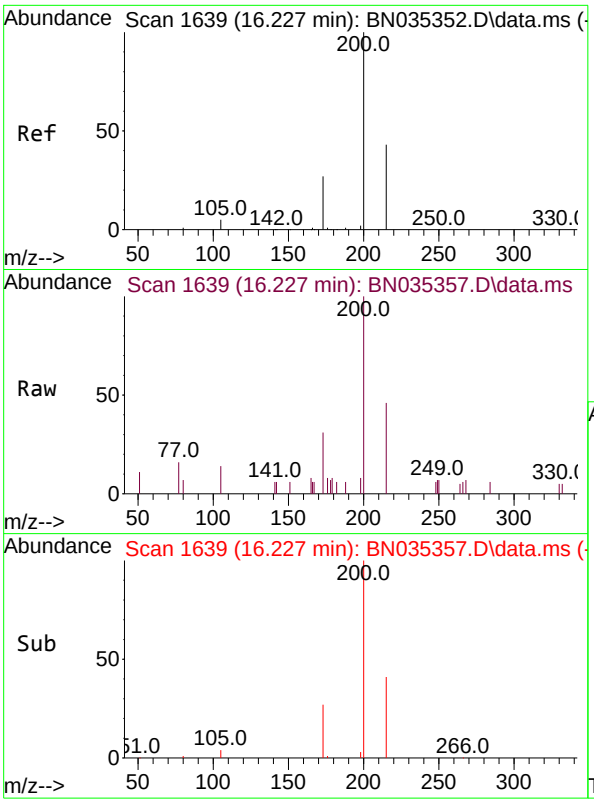


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8

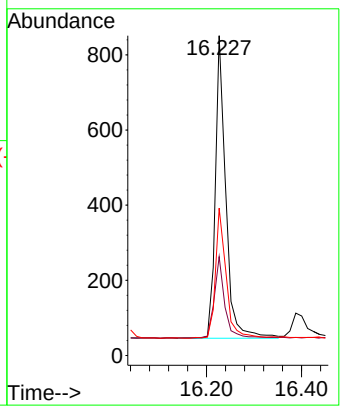




#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:200 Resp: 122

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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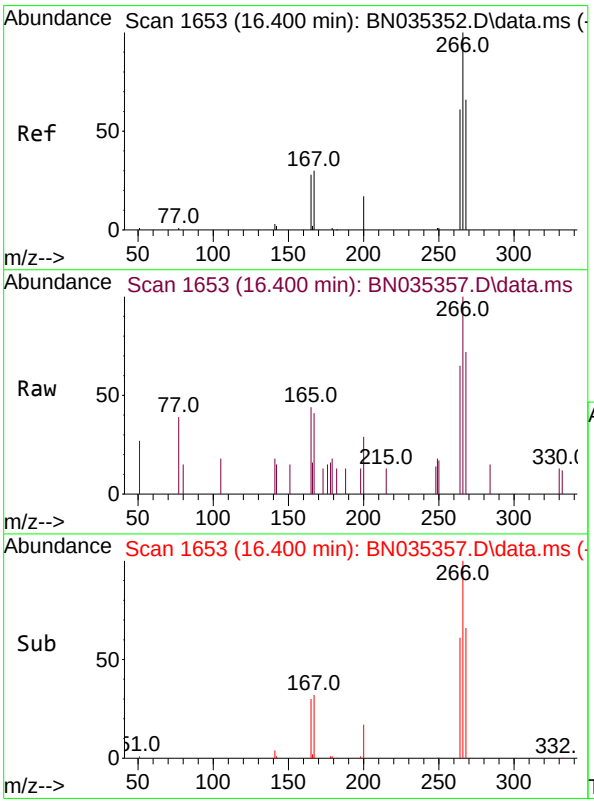
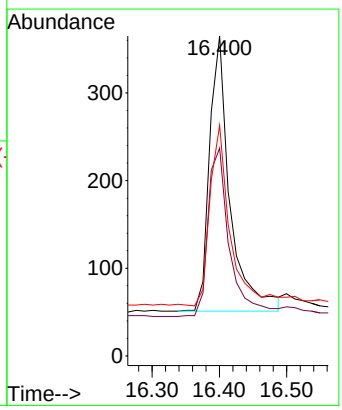
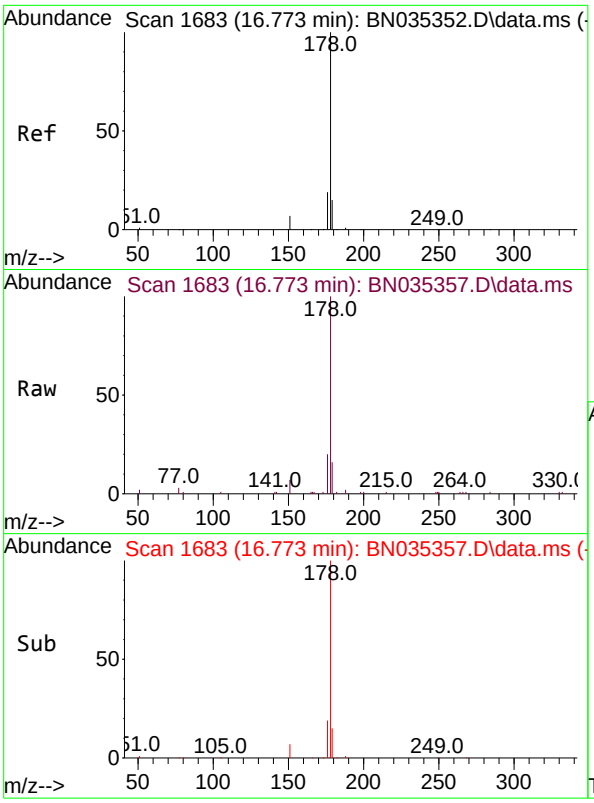


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#

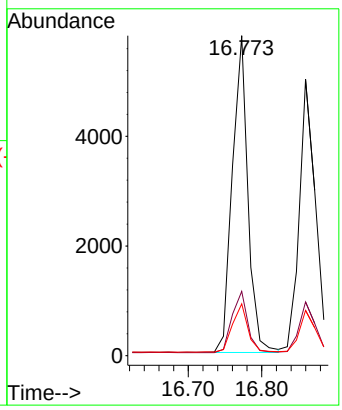




#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 850

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



Instrument :
BNA_N
ClientSampleId :
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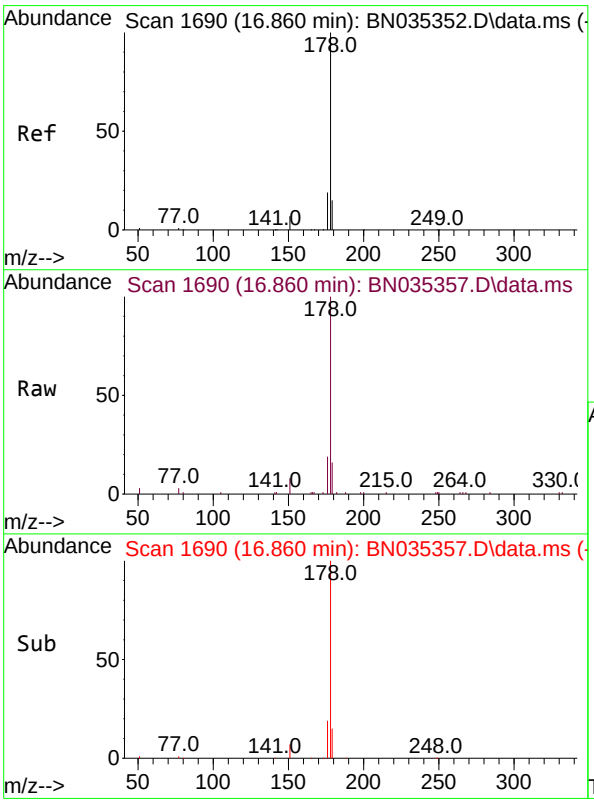
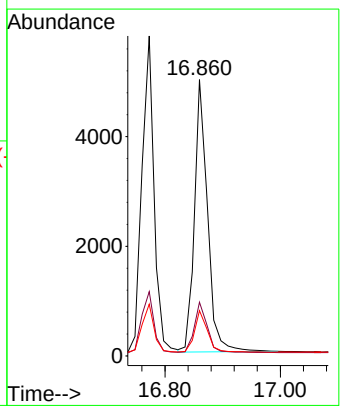
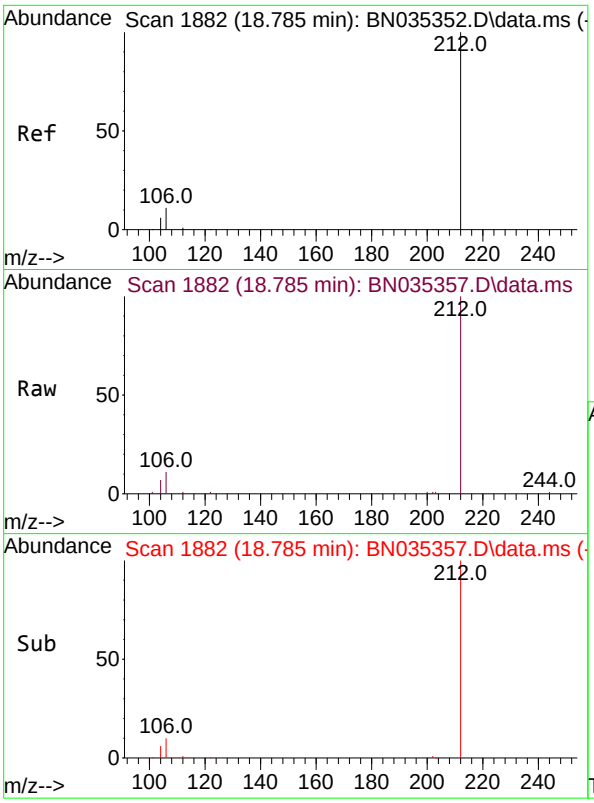


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

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

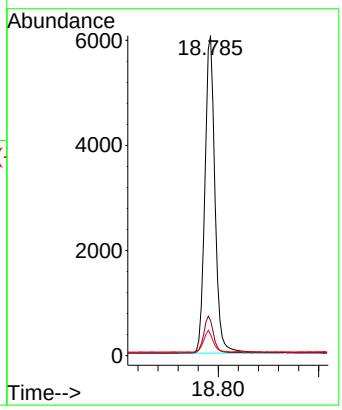




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:212 Resp: 841

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



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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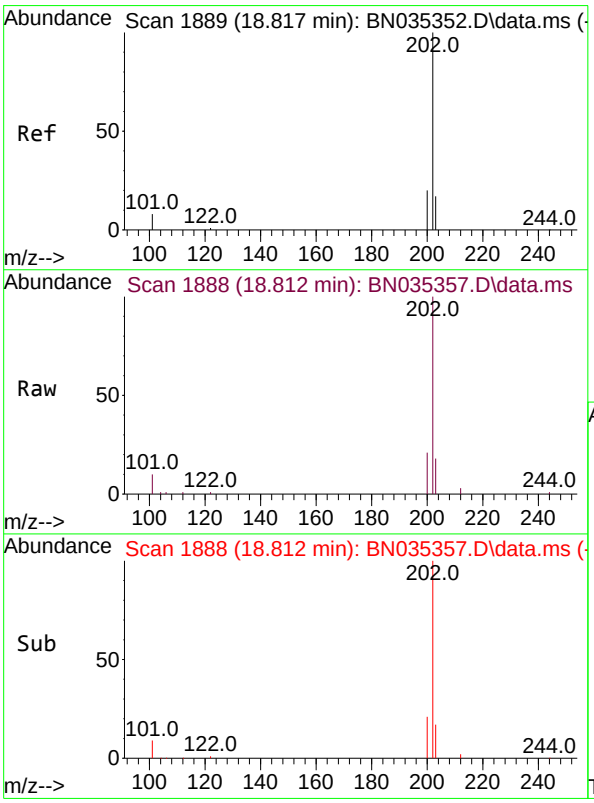
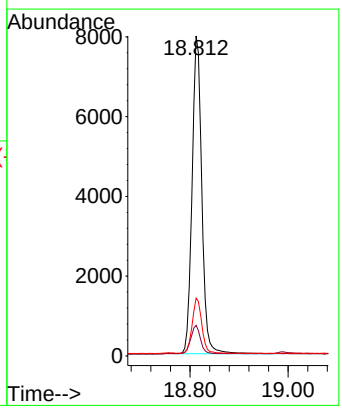
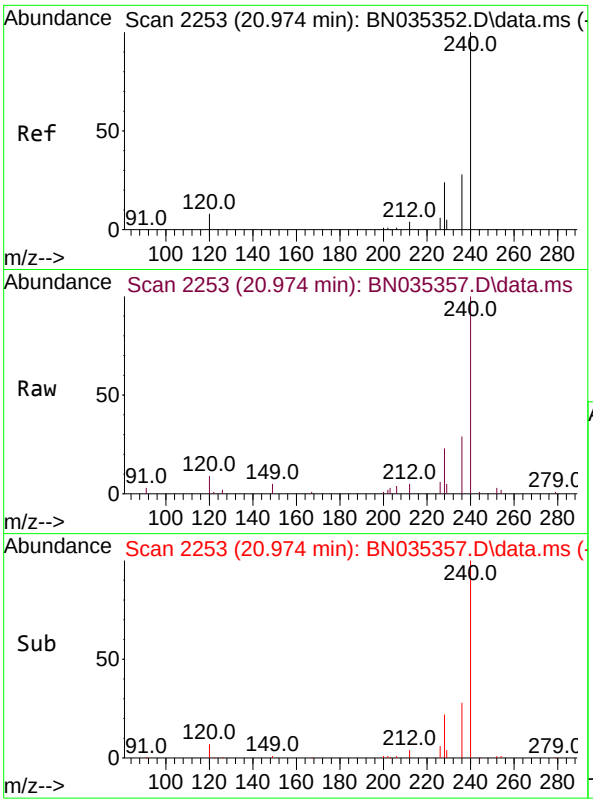


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

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

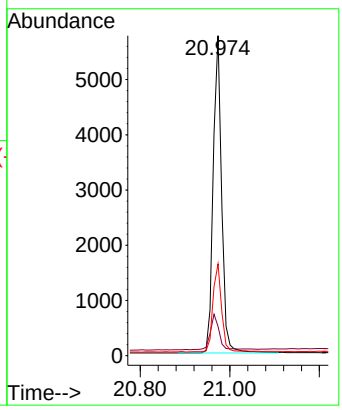




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:240 Resp: 757

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



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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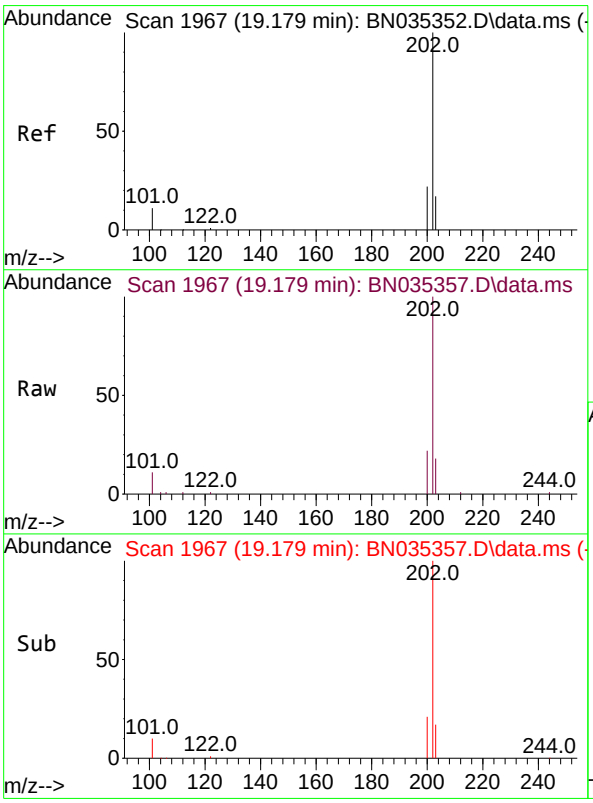
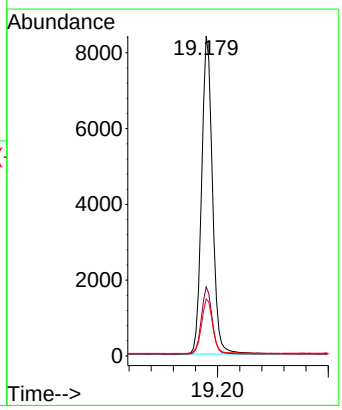
Supervised By :mohammad ahmed 12/03/2024

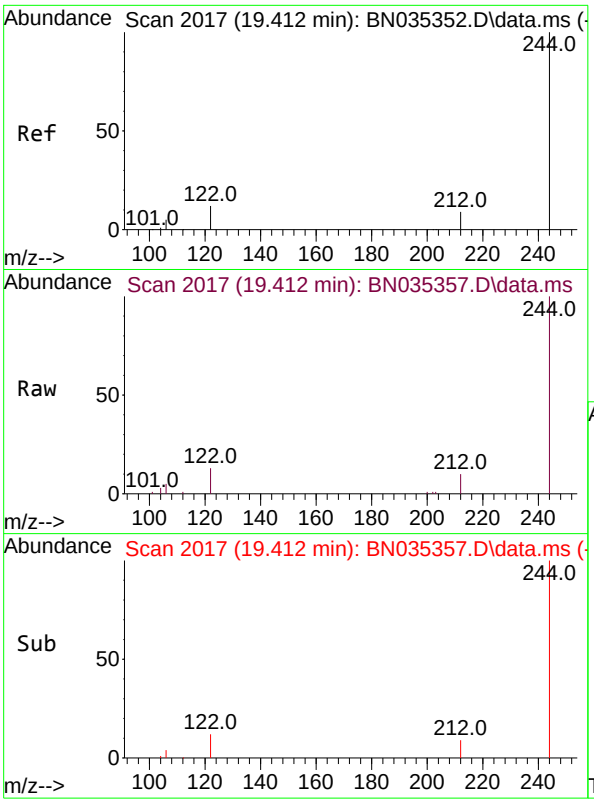


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

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

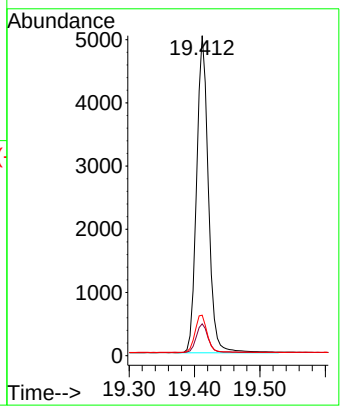




#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:244 Resp: 627

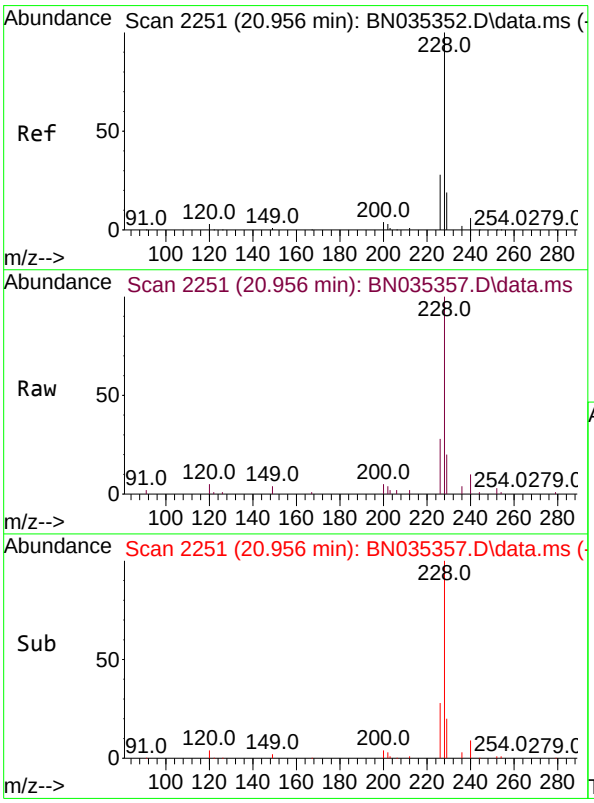
Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

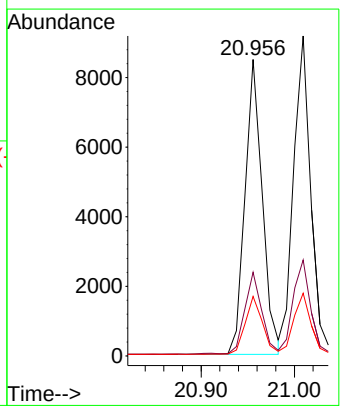
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

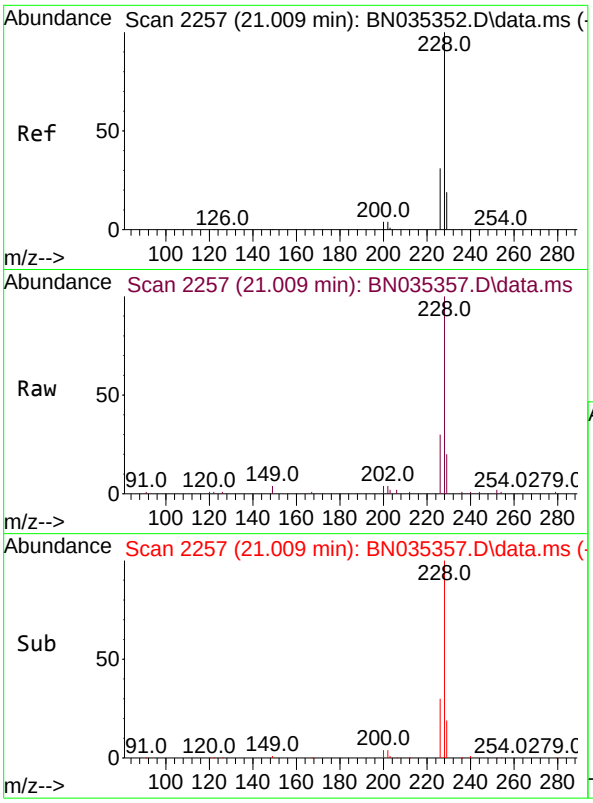


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8

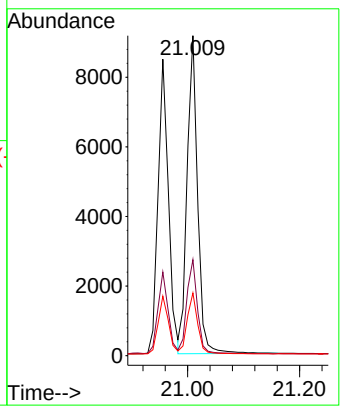




#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 1192

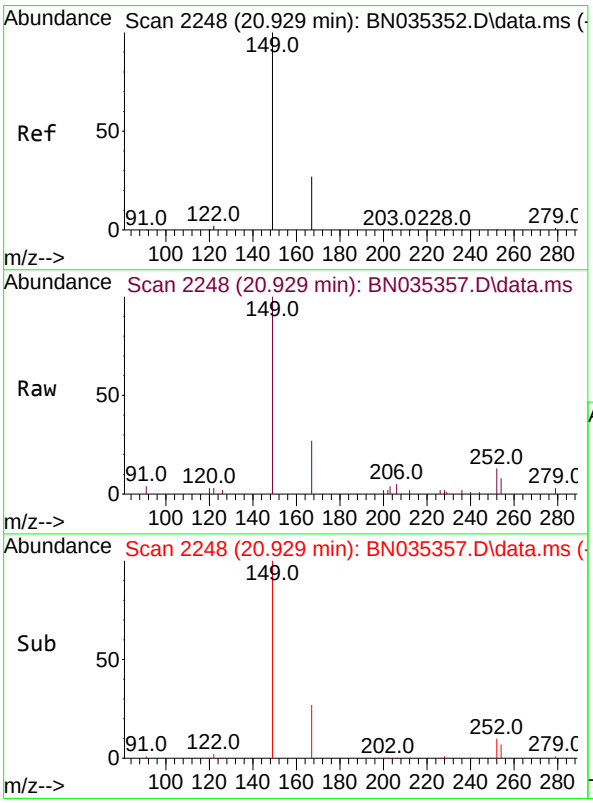
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

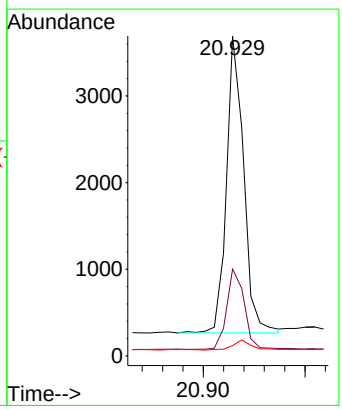
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

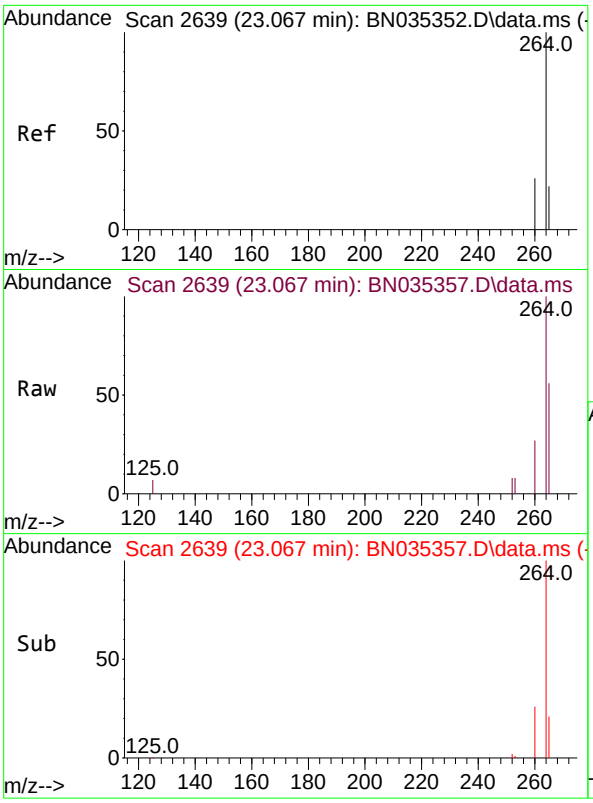


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1

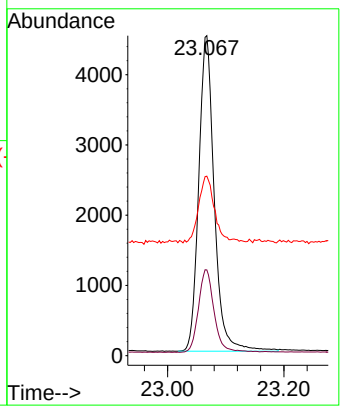




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:264 Resp: 833

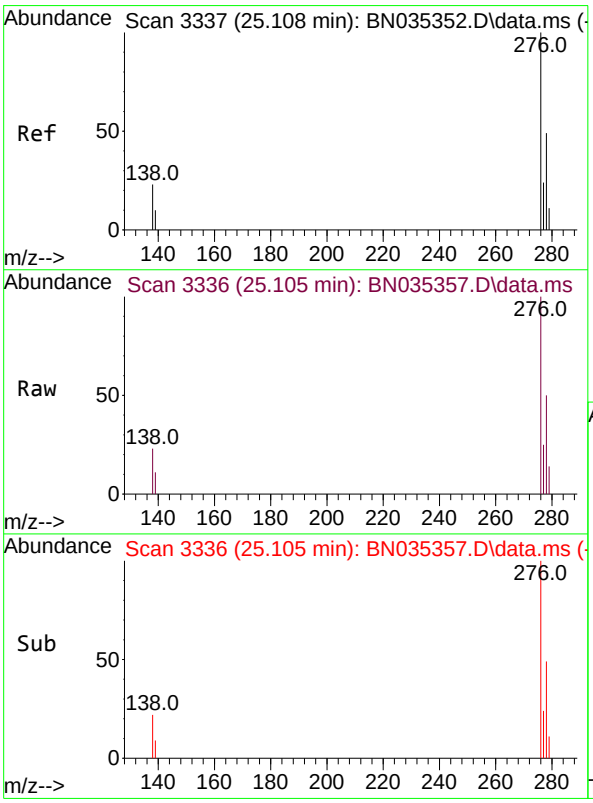
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

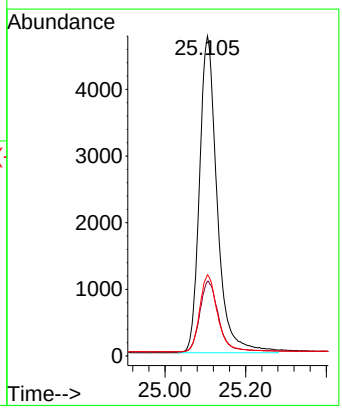
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

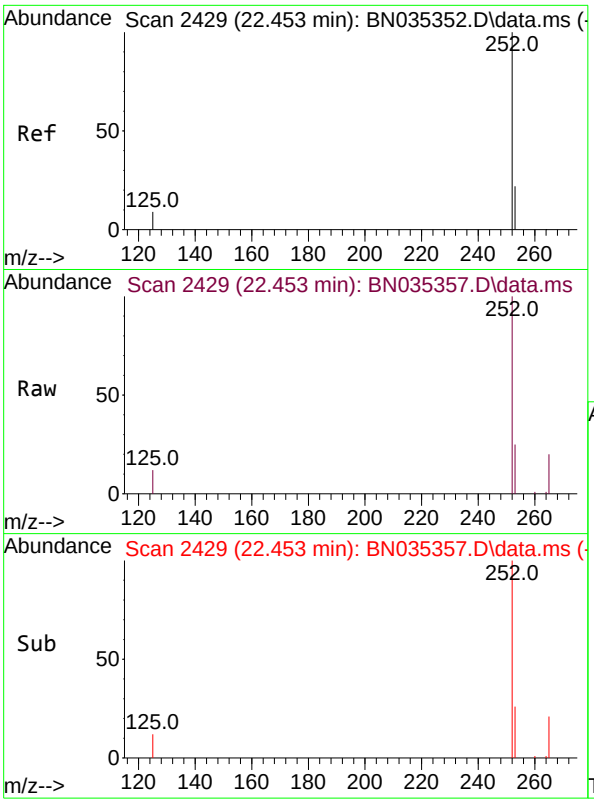


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6

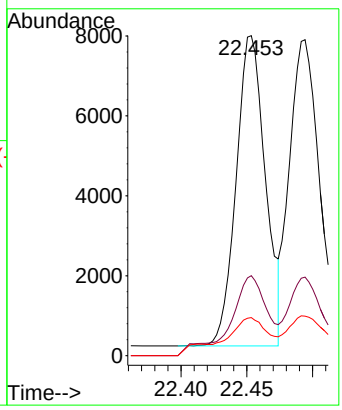




#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1298

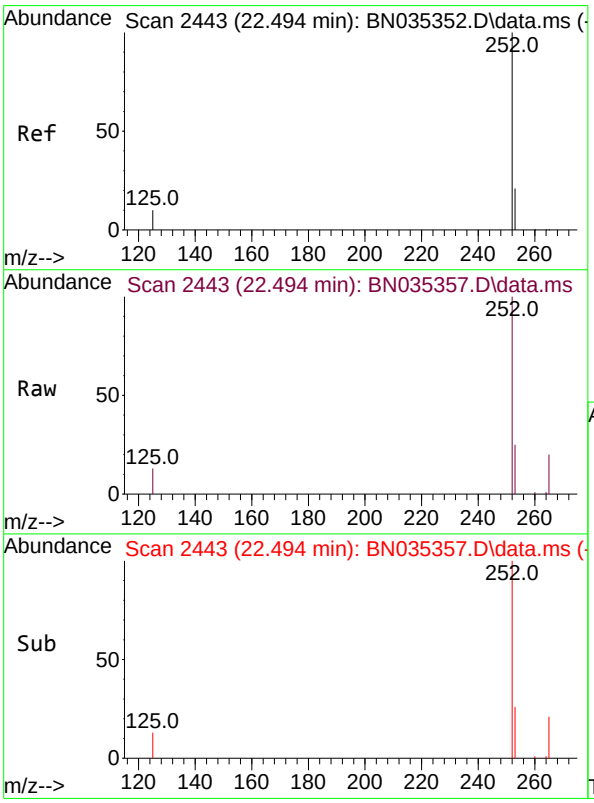
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

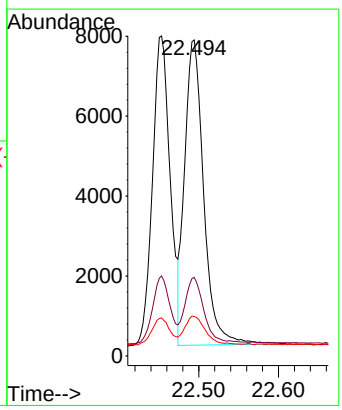
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

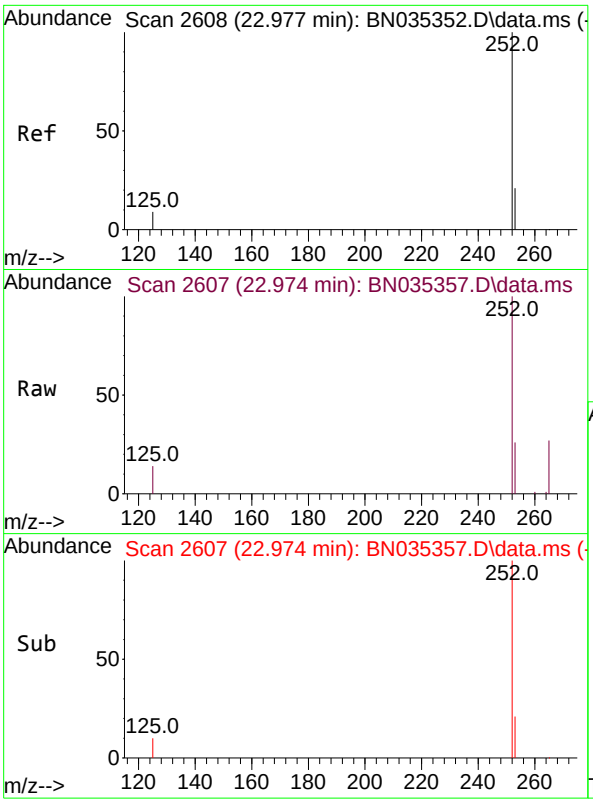


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4

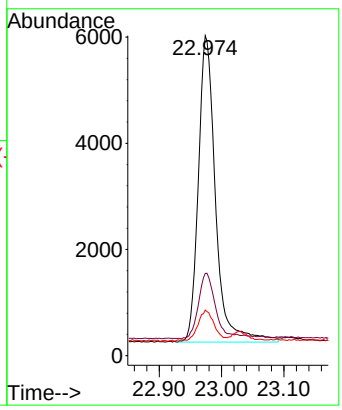




#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 1109

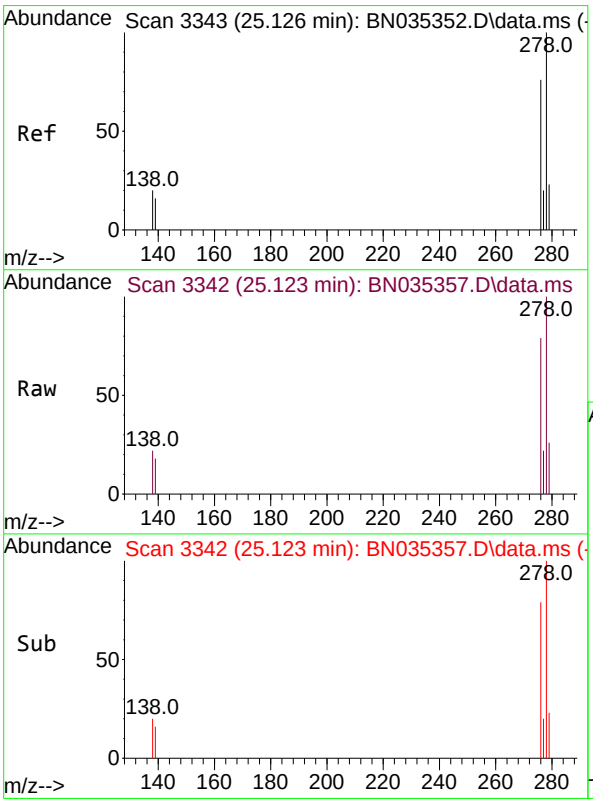
Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

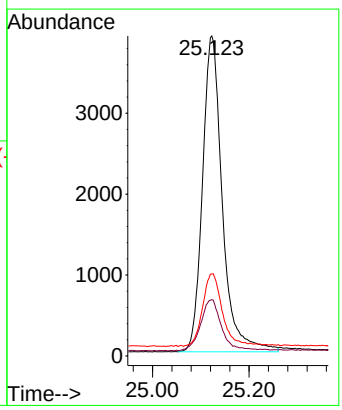
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

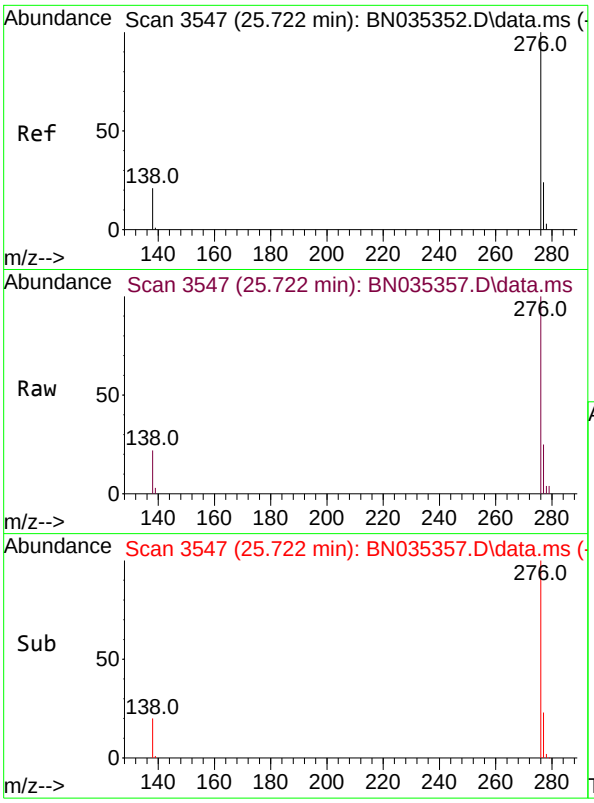


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

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

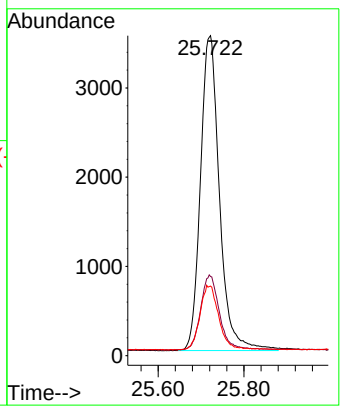




#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 1087

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations
APPROVED

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

Evaluate Continuing Calibration Report

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
2		1,4-Dioxane	0.382	0.444	-16.2	89	0.00
3		n-Nitrosodimethylamine	0.319	0.321	-0.6	74	0.00
4	S	2-Fluorophenol	1.001	0.831	17.0	61	0.00
5	S	Phenol-d6	1.204	0.933	22.5	59	0.00
6		bis(2-Chloroethyl)ether	1.012	1.088	-7.5	82	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	75	0.00
8	S	Nitrobenzene-d5	0.244	0.240	1.6	76	0.00
9		Naphthalene	1.055	1.118	-6.0	80	0.00
10		Hexachlorobutadiene	0.243	0.257	-5.8	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.626	0.657	-5.0	79	0.00
12		2-Methylnaphthalene	0.755	0.809	-7.2	82	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.284	0.214	24.6	63	0.00
15	S	2-Fluorobiphenyl	1.512	1.614	-6.7	81	0.00
16		Acenaphthylene	1.680	1.827	-8.8	87	0.00
17		Acenaphthene	1.115	1.188	-6.5	83	0.00
18		Fluorene	1.596	1.676	-5.0	82	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.039	0.036	7.7	78	0.00
21		4-Bromophenyl-phenylether	0.234	0.237	-1.3	81	0.00
22		Hexachlorobenzene	0.275	0.293	-6.5	83	0.00
23		Atrazine	0.167	0.167	0.0	84	0.00
24		Pentachlorophenol	0.120	0.090	25.0	73	0.00
25		Phenanthrene	1.099	1.158	-5.4	84	0.00
26		Anthracene	0.994	1.068	-7.4	88	0.00
27	SURR	Fluoranthene-d10	1.134	1.145	-1.0	82	0.00
28		Fluoranthene	1.481	1.489	-0.5	81	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	80	0.00
30		Pyrene	1.477	1.515	-2.6	82	0.00
31	S	Terphenyl-d14	0.789	0.828	-4.9	83	0.00
32		Benzo(a)anthracene	1.399	1.443	-3.1	85	0.00
33		Chrysene	1.443	1.574	-9.1	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.530	4.2	82	0.00
35	I	Perylene-d12	1.000	1.000	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.731	-10.7	87	0.00
37		Benzo(b)fluoranthene	1.463	1.558	-6.5	91	0.00
38		Benzo(k)fluoranthene	1.440	1.519	-5.5	83	0.00
39	C	Benzo(a)pyrene	1.205	1.331	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	1.234	1.336	-8.3	86	0.00
41		Benzo(g,h,i)perylene	1.289	1.304	-1.2	80	0.00

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

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Evaluate Continuing Calibration Report

ICAL Form

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

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	75	0.00
2		1,4-Dioxane	0.400	0.465	-16.3	89	0.00
3		n-Nitrosodimethylamine	0.400	0.404	-1.0	74	0.00
4	S	2-Fluorophenol	0.400	0.332	17.0	61	0.00
5	S	Phenol-d6	0.400	0.310	22.5	59	0.00
6		bis(2-Chloroethyl)ether	0.400	0.430	-7.5	82	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	75	0.00
8	S	Nitrobenzene-d5	0.400	0.393	1.8	76	0.00
9		Naphthalene	0.400	0.424	-6.0	80	0.00
10		Hexachlorobutadiene	0.400	0.423	-5.7	78	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.420	-5.0	79	0.00
12		2-Methylnaphthalene	0.400	0.428	-7.0	82	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14	S	2,4,6-Tribromophenol	0.400	0.302	24.5	63	0.00
15	S	2-Fluorobiphenyl	0.400	0.427	-6.7	81	0.00
16		Acenaphthylene	0.400	0.435	-8.7	87	0.00
17		Acenaphthene	0.400	0.426	-6.5	83	0.00
18		Fluorene	0.400	0.420	-5.0	82	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	77	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	78	0.00
21		4-Bromophenyl-phenylether	0.400	0.405	-1.3	81	0.00
22		Hexachlorobenzene	0.400	0.426	-6.5	83	0.00
23		Atrazine	0.400	0.401	-0.3	84	0.00
24		Pentachlorophenol	0.400	0.301	24.8	73	0.00
25		Phenanthrene	0.400	0.421	-5.2	84	0.00
26		Anthracene	0.400	0.430	-7.5	88	0.00
27	SURR	Fluoranthene-d10	0.400	0.404	-1.0	82	0.00
28		Fluoranthene	0.400	0.402	-0.5	81	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	80	0.00
30		Pyrene	0.400	0.410	-2.5	82	0.00
31	S	Terphenyl-d14	0.400	0.420	-5.0	83	0.00
32		Benzo(a)anthracene	0.400	0.413	-3.2	85	0.00
33		Chrysene	0.400	0.436	-9.0	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	82	0.00
35	I	Perylene-d12	0.400	0.400	0.0	77	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.443	-10.7	87	0.00
37		Benzo(b)fluoranthene	0.400	0.426	-6.5	91	0.00
38		Benzo(k)fluoranthene	0.400	0.422	-5.5	83	0.00
39	C	Benzo(a)pyrene	0.400	0.442	-10.5	89	0.00
40		Dibenzo(a,h)anthracene	0.400	0.433	-8.2	86	0.00
41		Benzo(g,h,i)perylene	0.400	0.404	-1.0	80	0.00

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

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/20/2024 19:33

Lab File ID: BN035749.D Init. Calib. Date(s): 11/27/2024 11/27/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:34 19:09

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.622		-0.6	20.0
Fluoranthene-d10	1.134	1.074		-5.3	20.0
2-Fluorophenol	1.001	1.021		2.0	20.0
Phenol-d6	1.204	1.178		-2.2	20.0
Nitrobenzene-d5	0.244	0.294		20.5	20.0
2-Fluorobiphenyl	1.512	1.560		3.2	20.0
2,4,6-Tribromophenol	0.284	0.235		-17.3	20.0
Terphenyl-d14	0.789	0.891		12.9	20.0
1,4-Dioxane	0.382	0.445		16.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.272	152	2885	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	7460	0.400	ng		-0.01
13) Acenaphthene-d10	13.925	164	4592	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	9182	0.400	ng		# 0.00
29) Chrysene-d12	20.956	240	7719	0.400	ng		0.00
35) Perylene-d12	23.038	264	7943	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	2946	0.408	ng		0.00
5) Phenol-d6	6.484	99	3398	0.391	ng		0.00
8) Nitrobenzene-d5	8.408	82	2193m	0.481	ng		0.00
11) 2-Methylnaphthalene-d10	11.616	152	4637	0.397	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1079	0.331	ng		0.00
15) 2-Fluorobiphenyl	12.539	172	7163	0.413	ng		0.00
27) Fluoranthene-d10	18.761	212	9858	0.379	ng		0.00
31) Terphenyl-d14	19.393	244	6880	0.452	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1284	0.466	ng		96
3) n-Nitrosodimethylamine	3.271	42	1037	0.451	ng	#	96
6) bis(2-Chloroethyl)ether	6.723	93	2618m	0.359	ng		
9) Naphthalene	10.063	128	8115	0.412	ng		99
10) Hexachlorobutadiene	10.351	225	2104	0.464	ng	#	98
12) 2-Methylnaphthalene	11.697	142	5318	0.378	ng		99
16) Acenaphthylene	13.636	152	7458	0.387	ng		100
17) Acenaphthene	13.989	154	5179	0.405	ng		99
18) Fluorene	14.994	166	6721	0.367	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	99	0.110	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2111	0.393	ng	#	80
22) Hexachlorobenzene	16.003	284	3074	0.487	ng		96
23) Atrazine	16.202	200	1584	0.414	ng		97
24) Pentachlorophenol	16.376	266	1014	0.370	ng		87
25) Phenanthrene	16.748	178	9861	0.391	ng		100
26) Anthracene	16.835	178	8624	0.378	ng		99
28) Fluoranthene	18.789	202	12002	0.353	ng		100
30) Pyrene	19.156	202	12468	0.438	ng		99
32) Benzo(a)anthracene	20.938	228	9472	0.351	ng		99
33) Chrysene	20.992	228	11952	0.429	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4632	0.434	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.067	276	12531	0.404	ng		96
37) Benzo(b)fluoranthene	22.427	252	13708	0.472	ng		95
38) Benzo(k)fluoranthene	22.468	252	11604m	0.406	ng		
39) Benzo(a)pyrene	22.950	252	9304	0.389	ng	#	91
40) Dibenzo(a,h)anthracene	25.082	278	9530	0.389	ng		95
41) Benzo(g,h,i)perylene	25.675	276	11213	0.438	ng		99

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

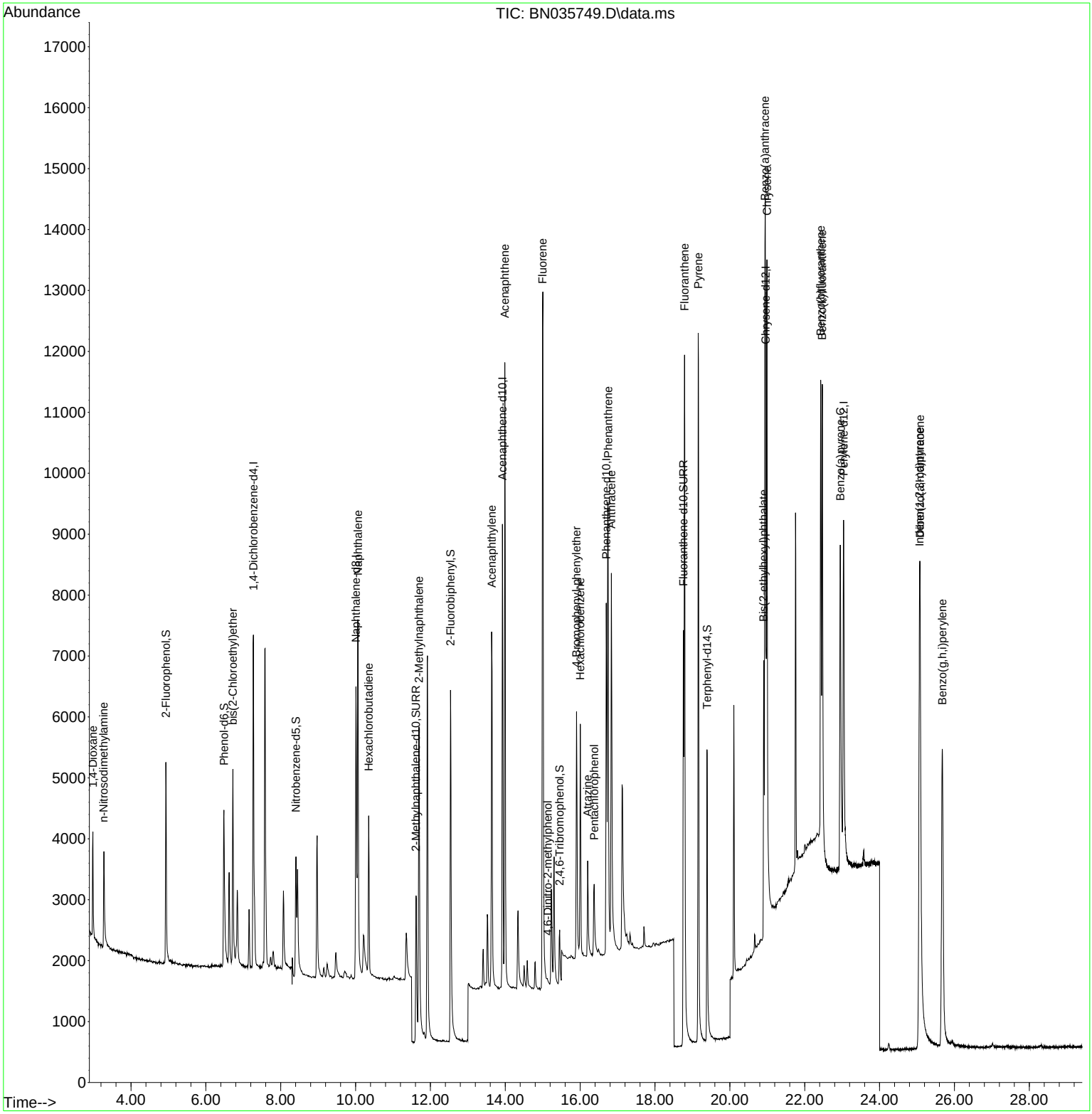
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

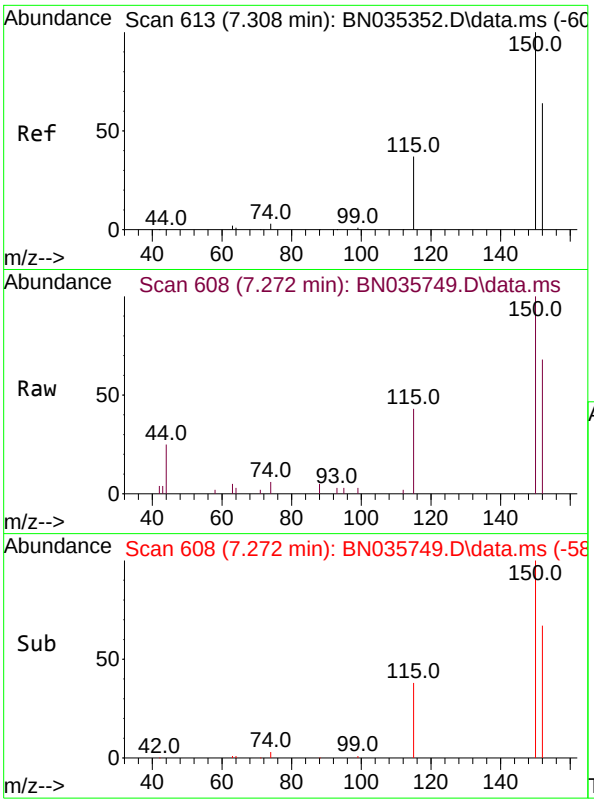
Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

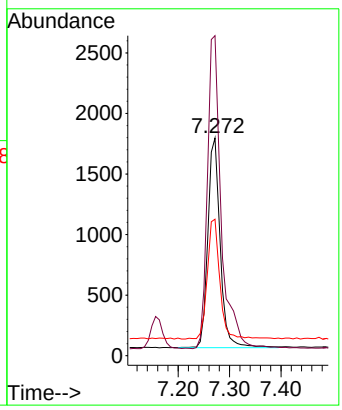




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:152 Resp: 288

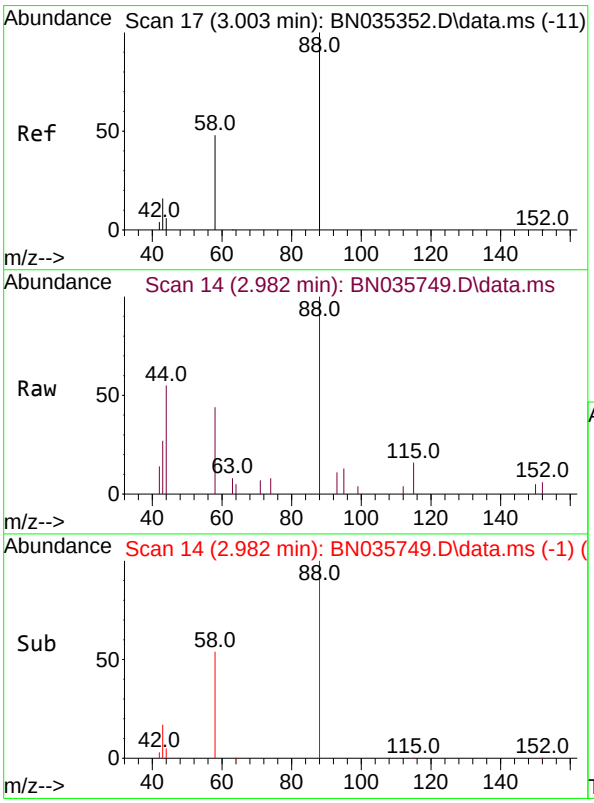
Ion	Ratio	Lower	Upper
152	100		
150	147.0	124.0	186.0
115	62.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

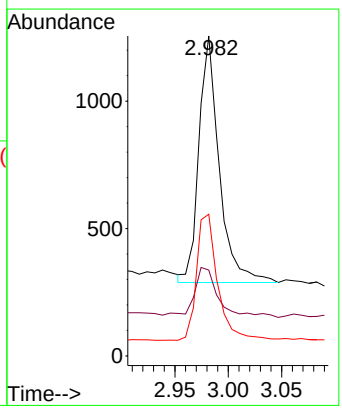
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

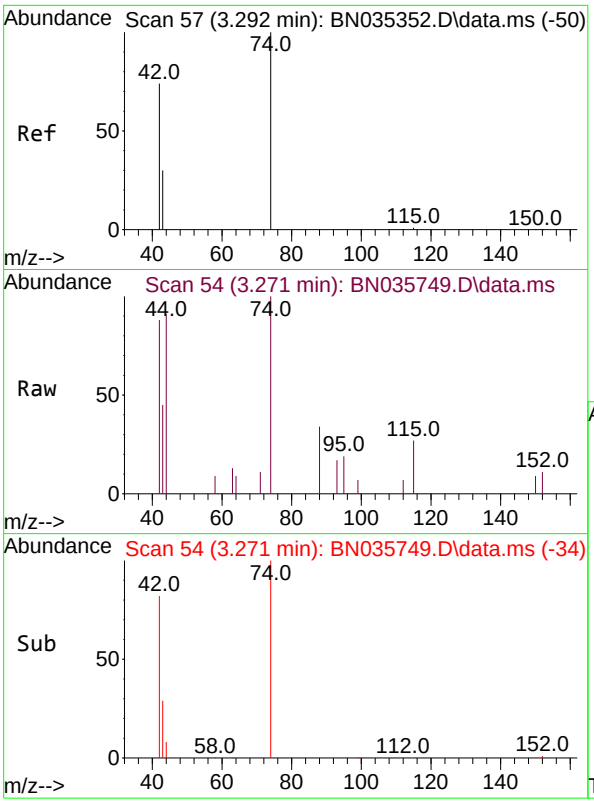


#2
1,4-Dioxane
Concen: 0.466 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 88 Resp: 1284

Ion	Ratio	Lower	Upper
88	100		
43	24.5	17.2	25.8
58	53.3	44.5	66.7





#3
n-Nitrosodimethylamine
Concen: 0.451 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

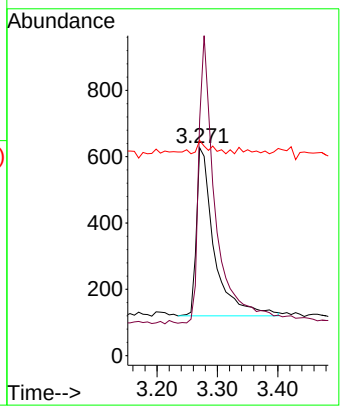
Tgt Ion: 42 Resp: 103

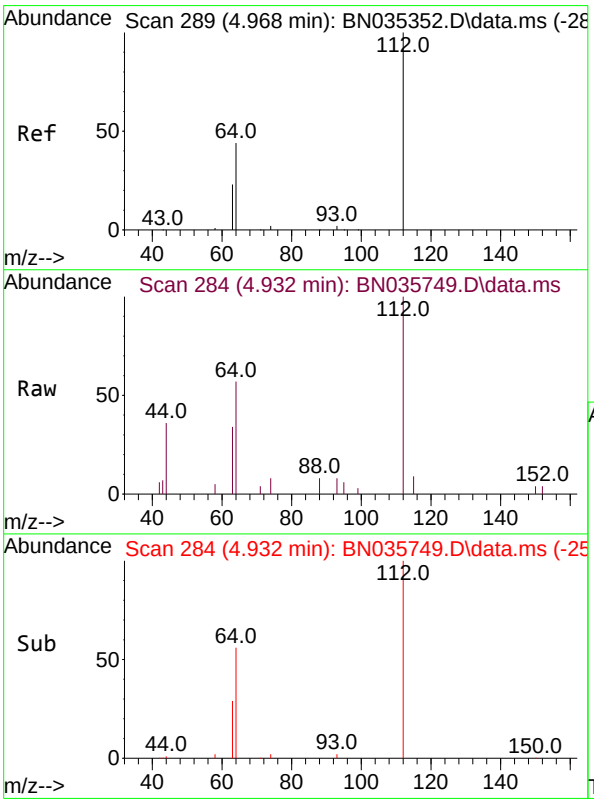
Ion	Ratio	Lower	Upper
42	100		
74	160.8	124.9	187.3
44	7.0	2.2	3.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

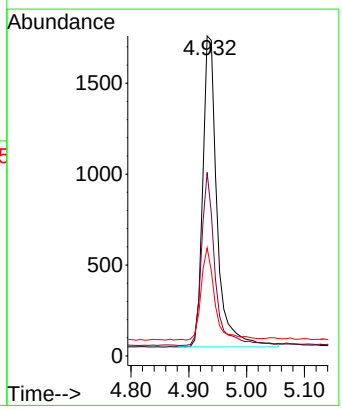


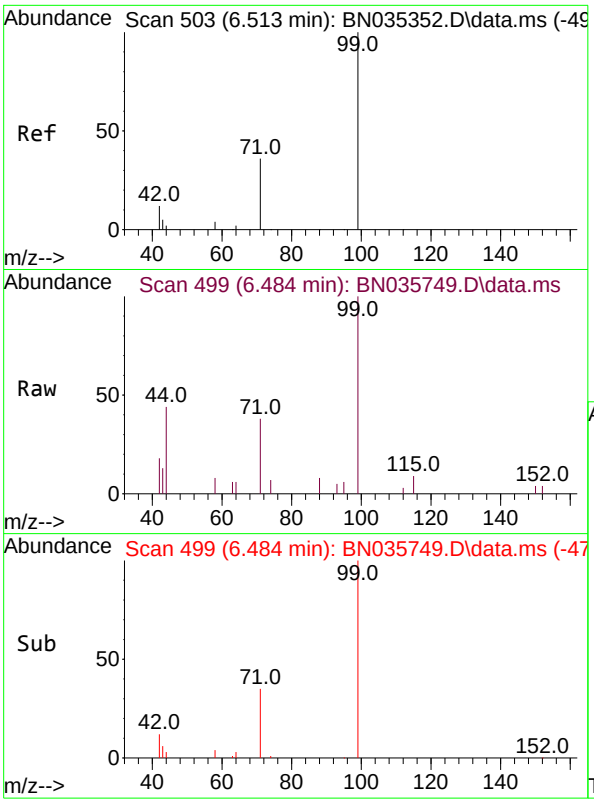


#4
2-Fluorophenol
Concen: 0.408 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:112 Resp: 2946

Ion	Ratio	Lower	Upper
112	100		
64	52.4	39.8	59.8
63	28.5	21.0	31.6

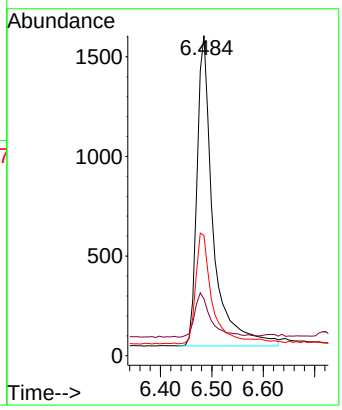




#5
Phenol-d6
Concen: 0.391 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 99 Resp: 339

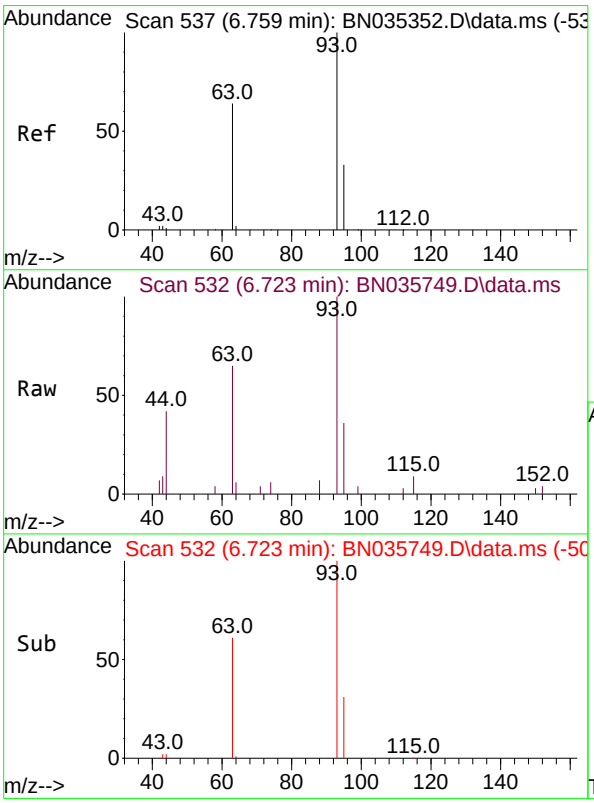
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.5	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

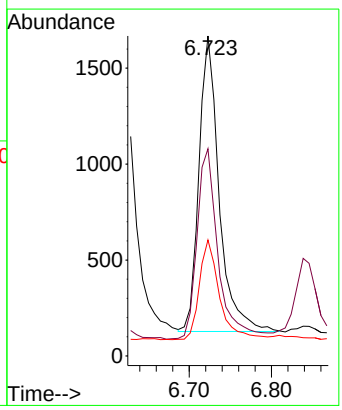
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

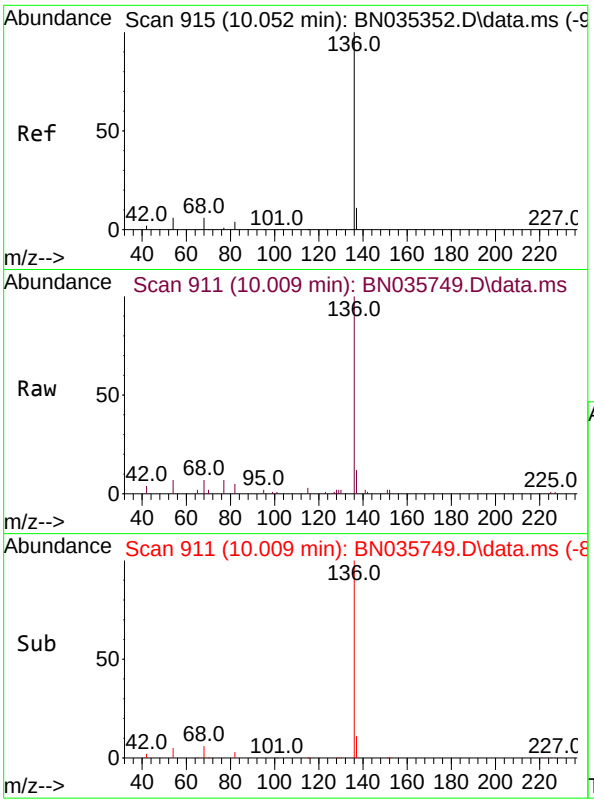


#6
bis(2-Chloroethyl)ether
Concen: 0.359 ng m
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 93 Resp: 2618

Ion	Ratio	Lower	Upper
93	100		
63	67.8	50.4	75.6
95	33.9	25.7	38.5

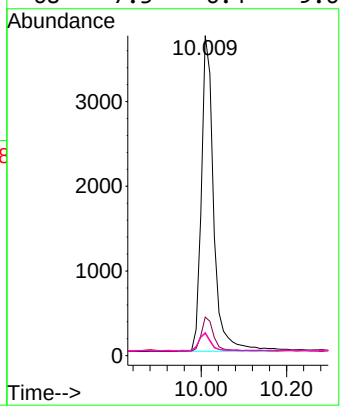




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:136 Resp: 746

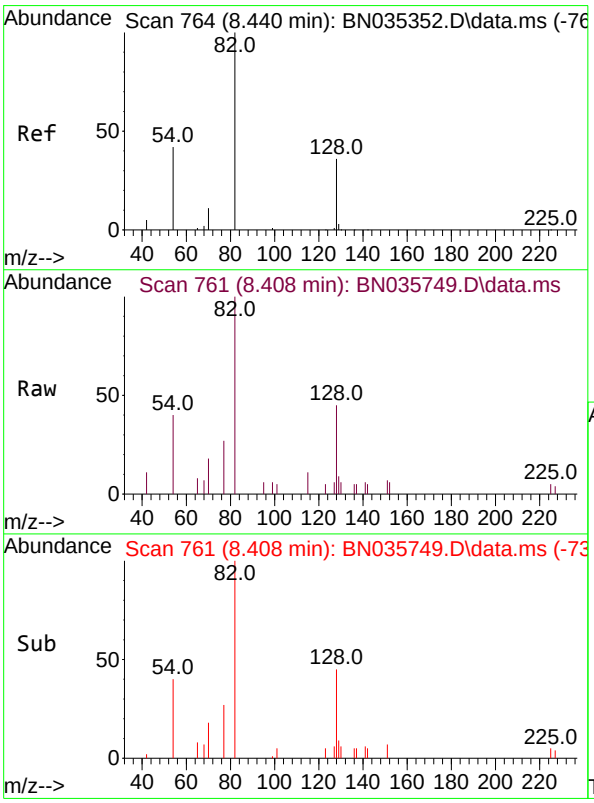
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

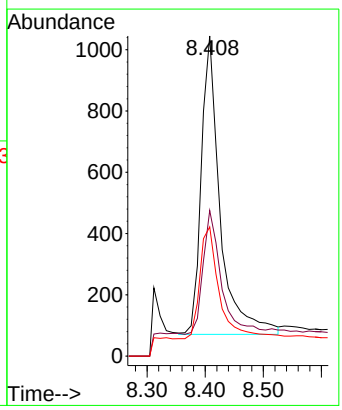
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

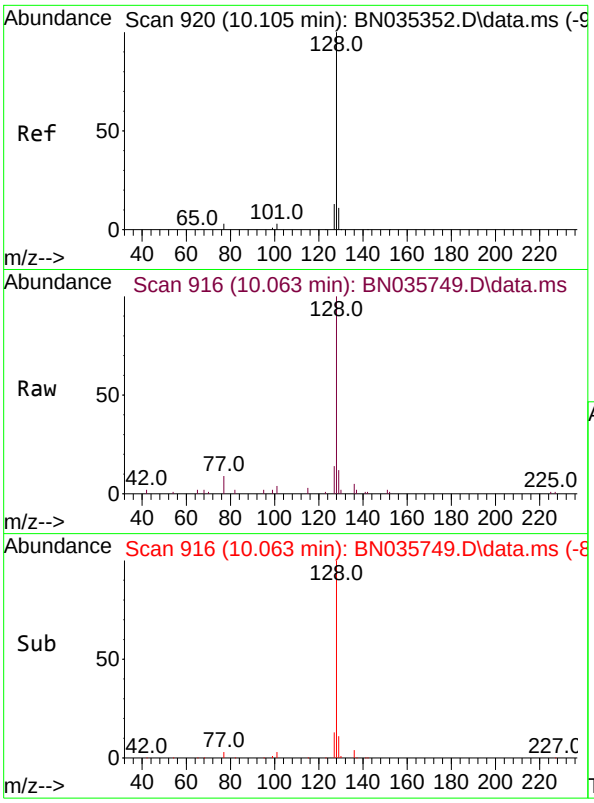


#8
Nitrobenzene-d5
Concen: 0.481 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 82 Resp: 2193

Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.4	50.0
54	40.4	36.7	55.1

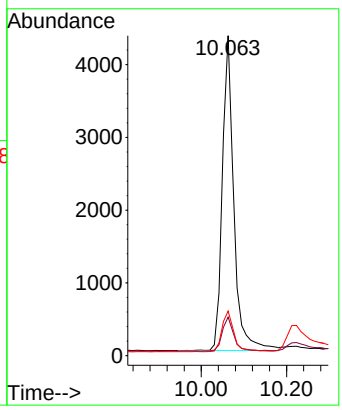




#9
Naphthalene
Concen: 0.412 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:128 Resp: 811

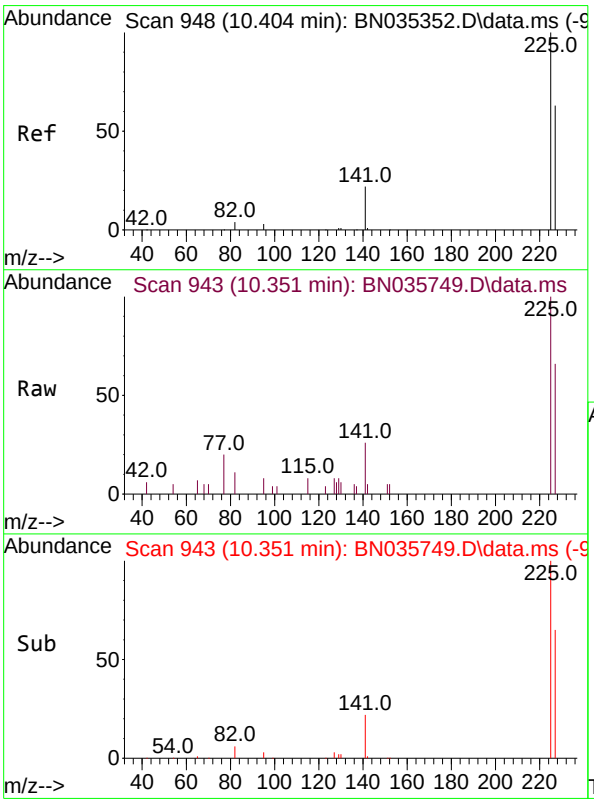
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	13.9	11.4	17.2



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

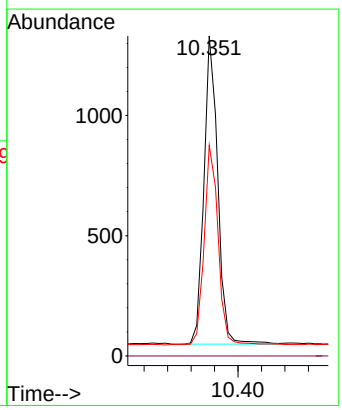
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

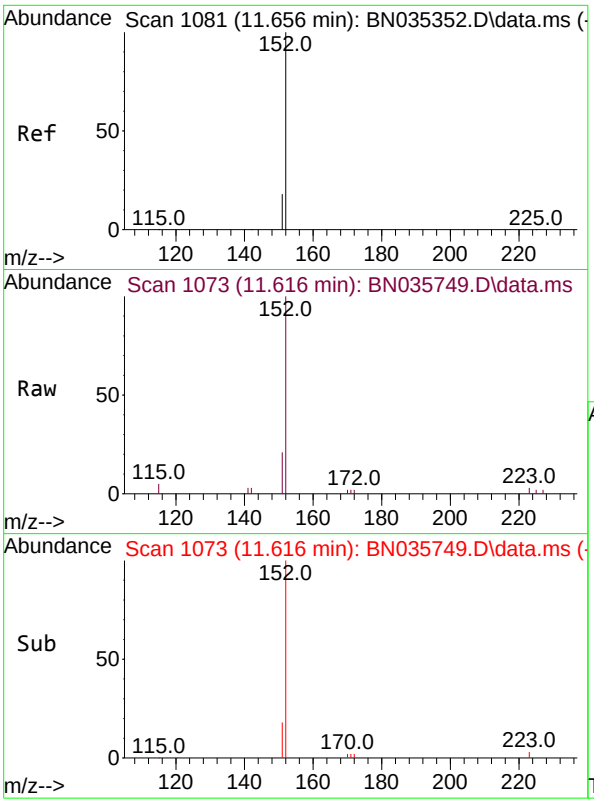


#10
Hexachlorobutadiene
Concen: 0.464 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:225 Resp: 2104

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

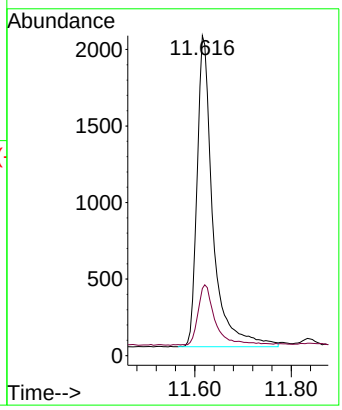
Tgt Ion:152 Resp: 463

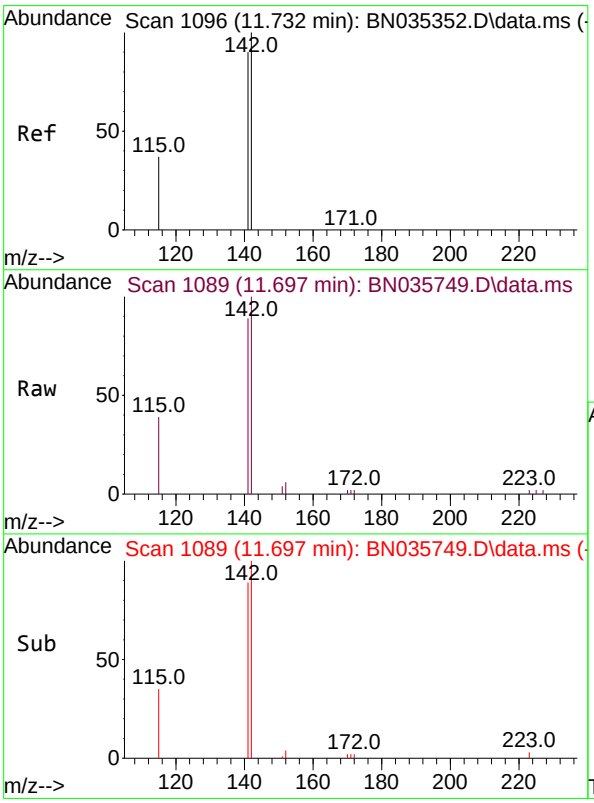
Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

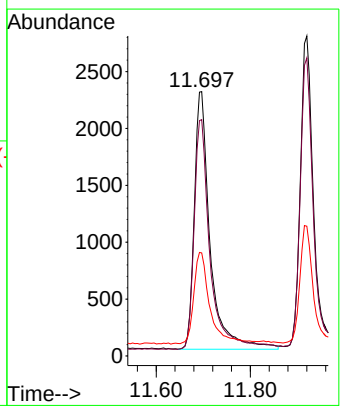


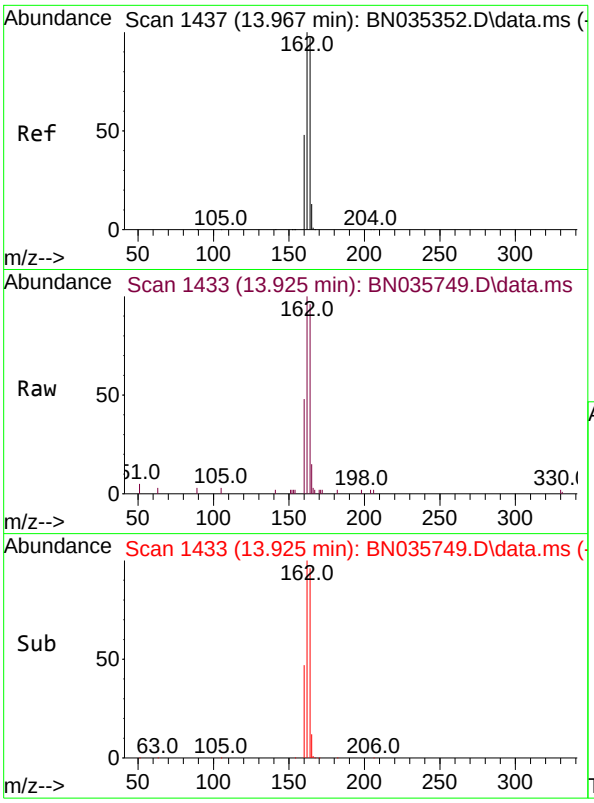


#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:142 Resp: 5318

Ion	Ratio	Lower	Upper
142	100		
141	89.4	72.2	108.4
115	39.0	31.4	47.0





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:164 Resp: 459

Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.2	123.2
160	49.8	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

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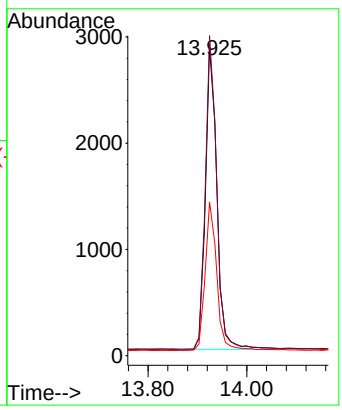
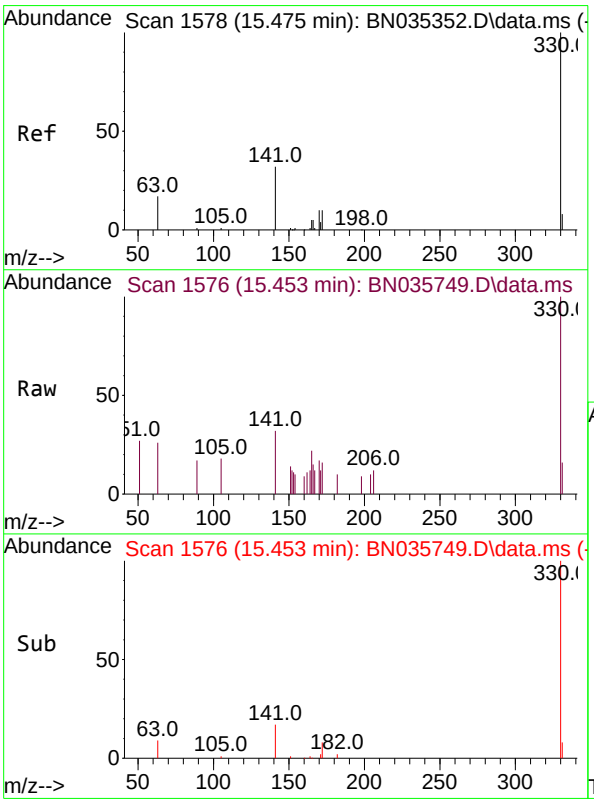
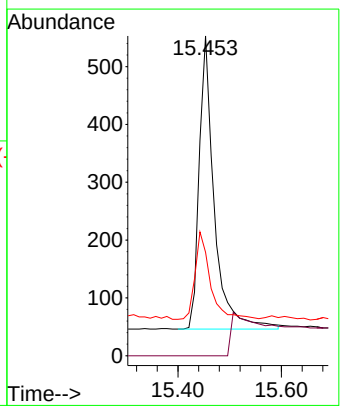


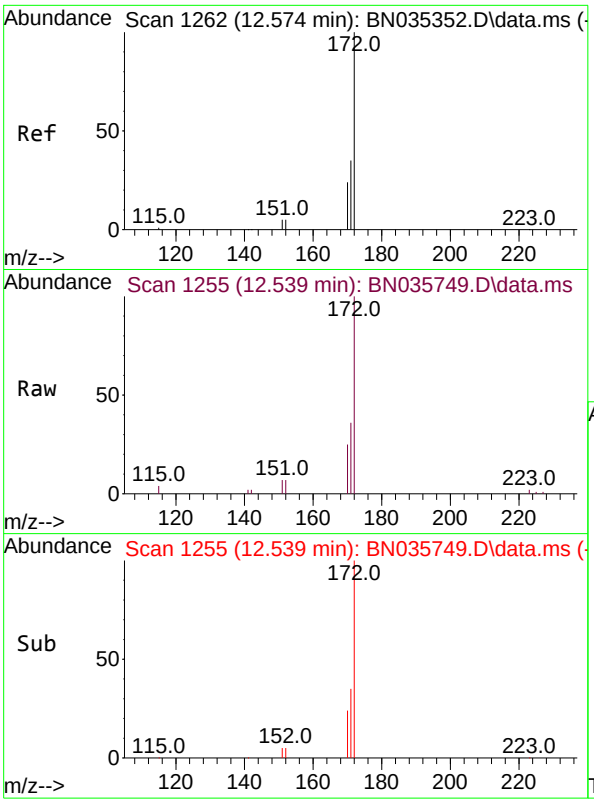


#14
2,4,6-Tribromophenol
Concen: 0.331 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:330 Resp: 1079

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.6	26.6	40.0

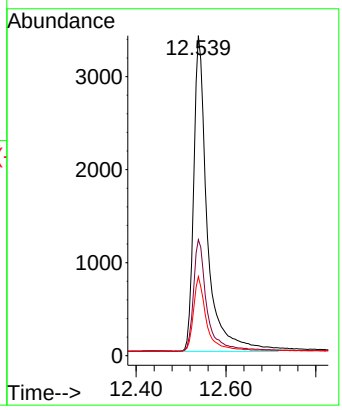




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:172 Resp: 716

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.7	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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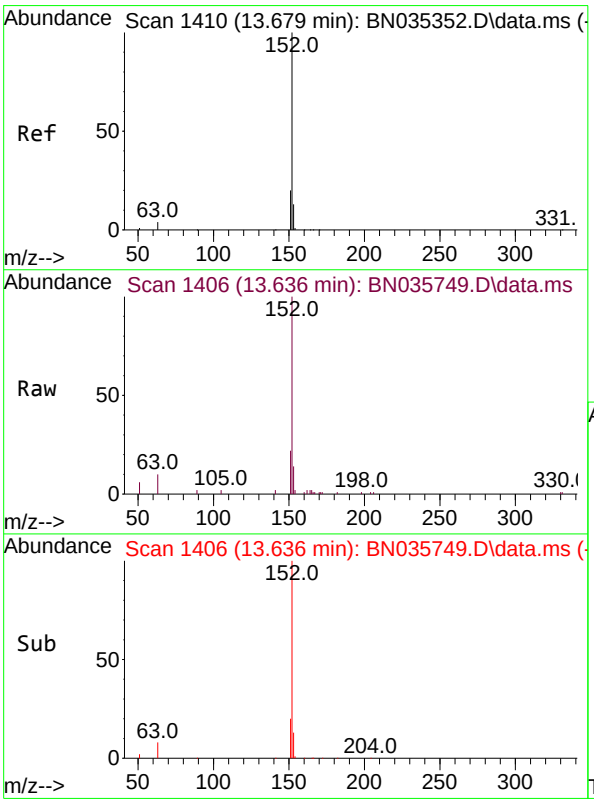
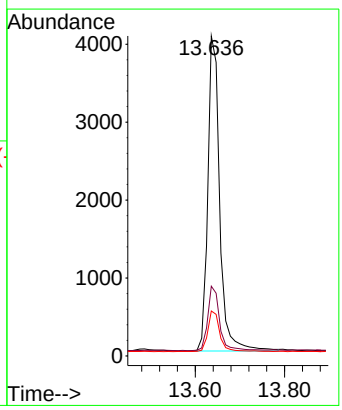
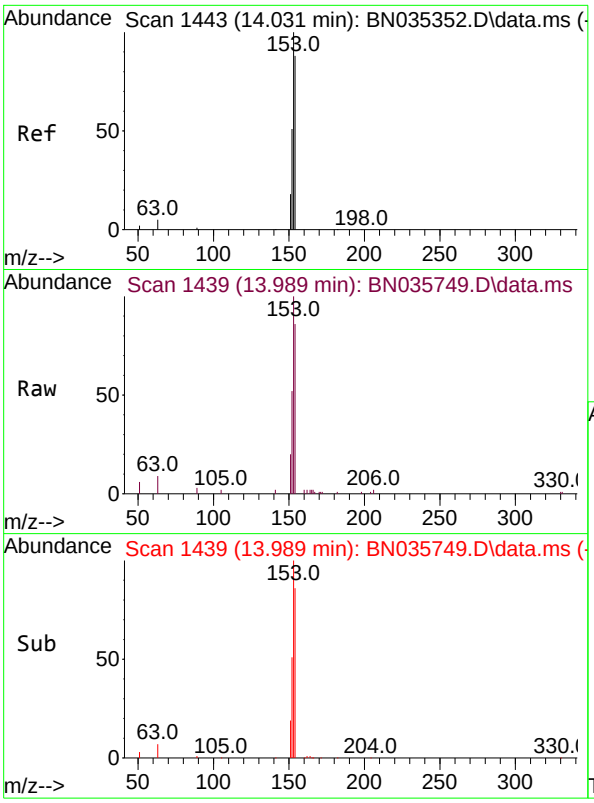


#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:152 Resp: 7458

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.2	10.4	15.6

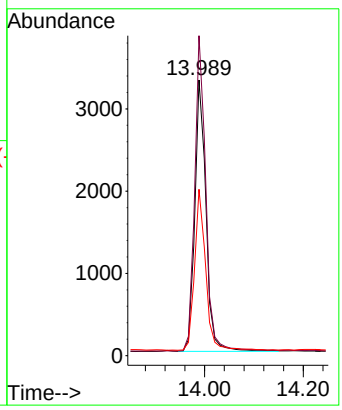




#17
Acenaphthene
Concen: 0.405 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:154 Resp: 517

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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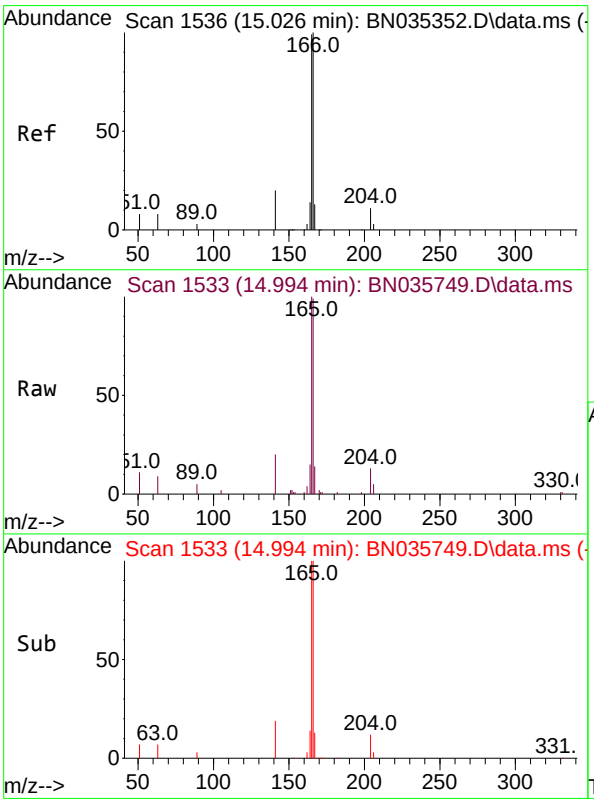
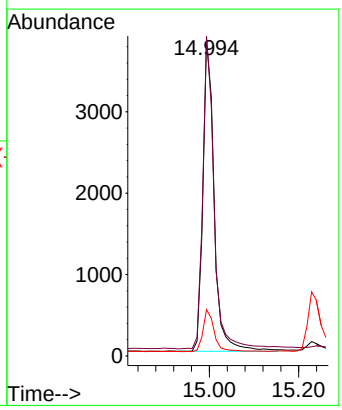
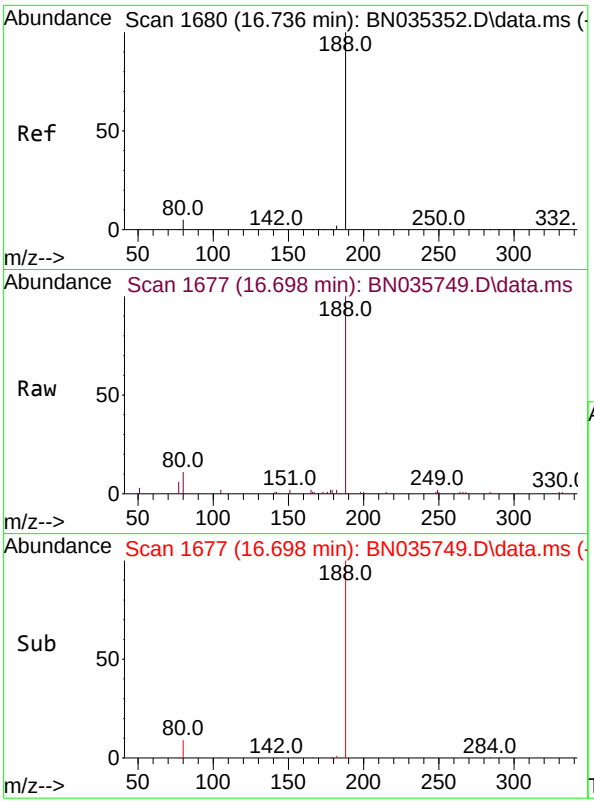


#18
Fluorene
Concen: 0.367 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:166 Resp: 6721

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.7	119.5
167	13.6	10.8	16.2

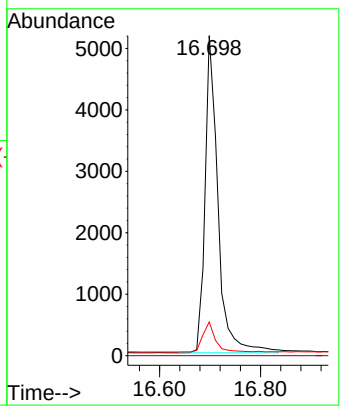




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:188 Resp: 918

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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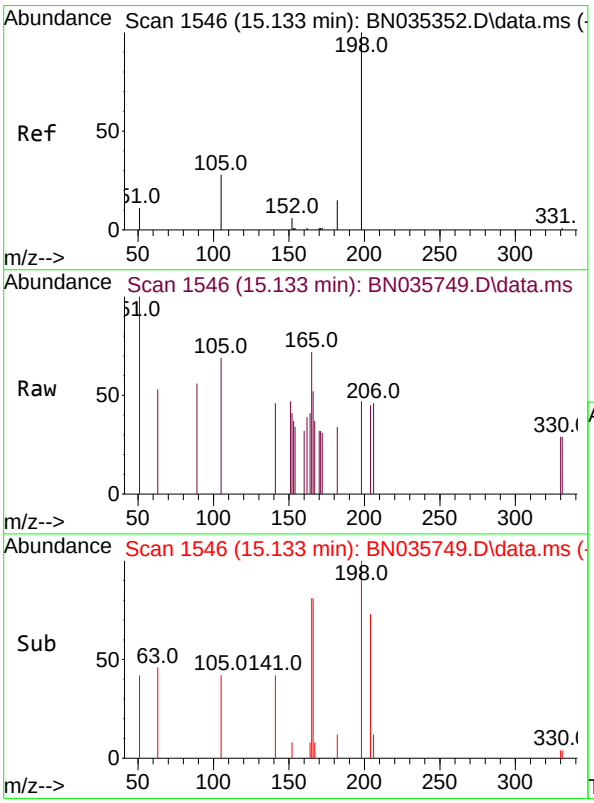
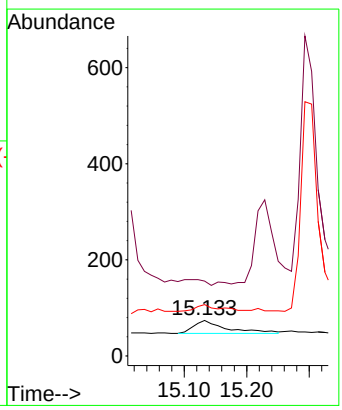
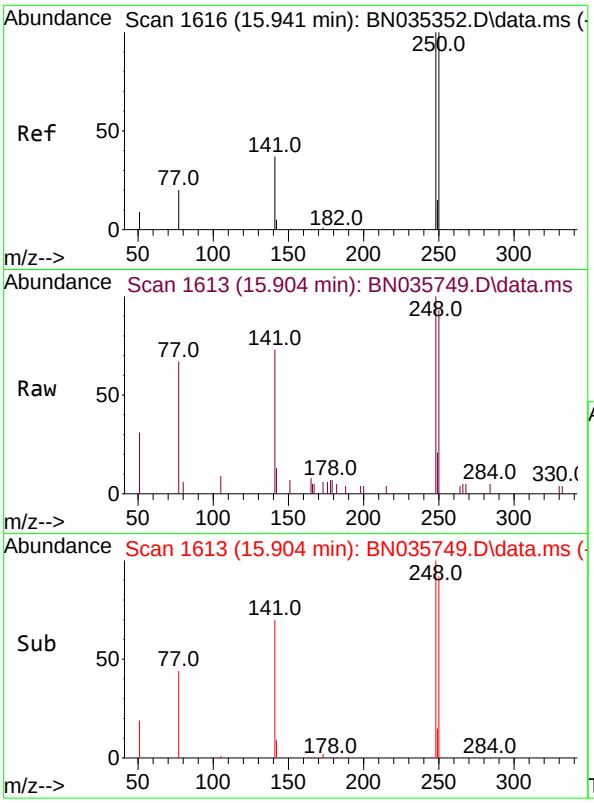


#20
4,6-Dinitro-2-methylphenol
Concen: 0.110 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:198 Resp: 99

Ion	Ratio	Lower	Upper
198	100		
51	210.8	46.5	69.7#
105	144.6	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:248 Resp: 211

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	72.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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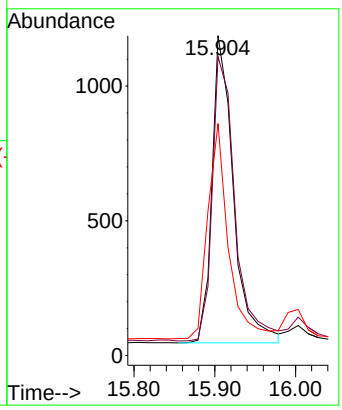
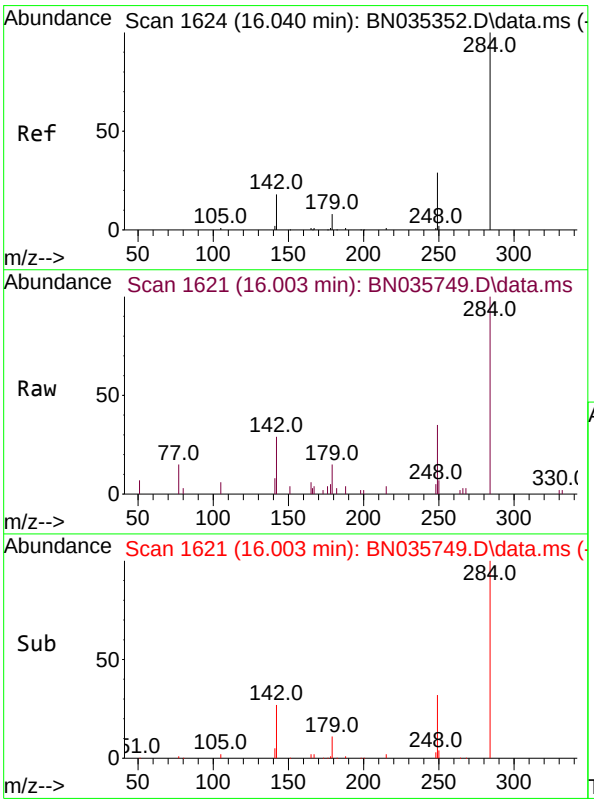
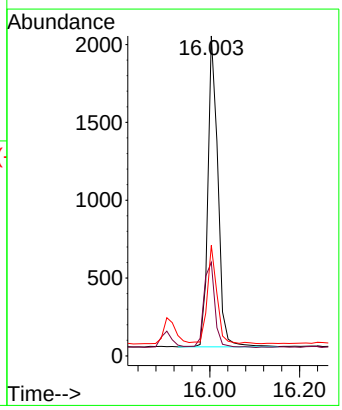


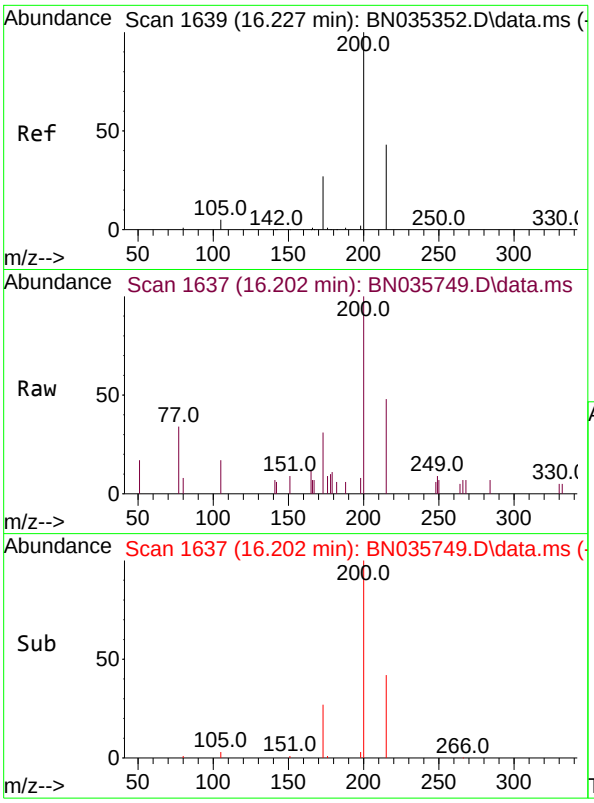


#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:284 Resp: 3074

Ion	Ratio	Lower	Upper
284	100		
142	30.3	26.7	40.1
249	29.7	24.6	36.8

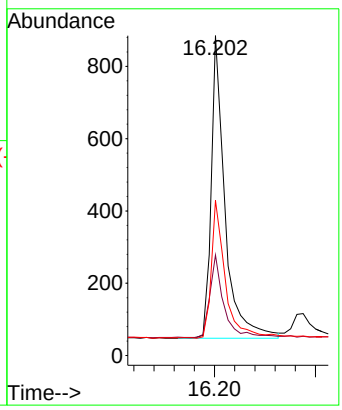




#23
Atrazine
Concen: 0.414 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:200 Resp: 158

Ion	Ratio	Lower	Upper
200	100		
173	31.4	24.1	36.1
215	48.5	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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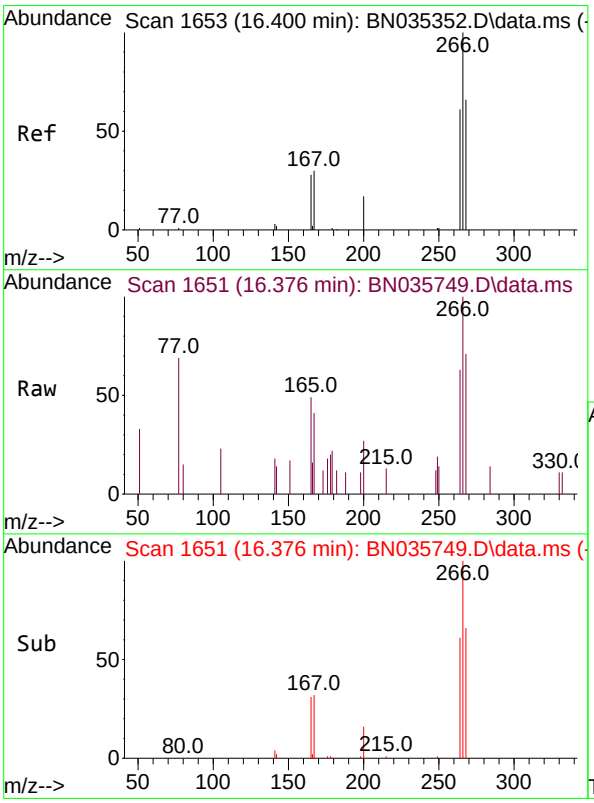
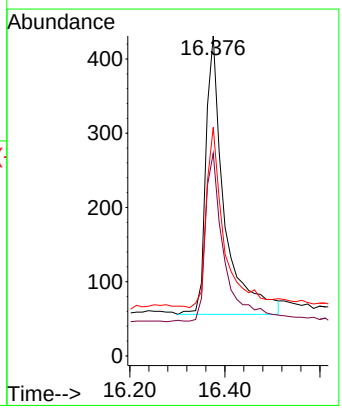
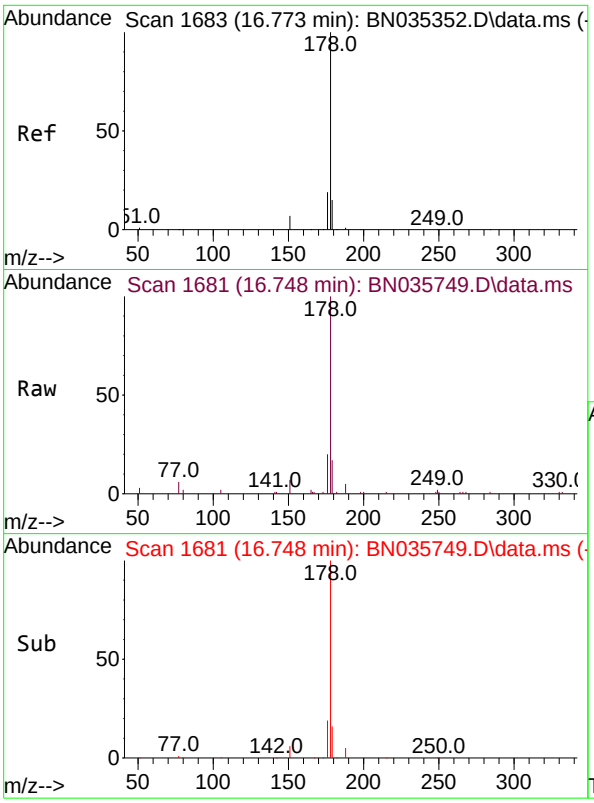


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:266 Resp: 1014

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.0	43.3	64.9





#25
Phenanthrene
Concen: 0.391 ng
RT: 16.748 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 986

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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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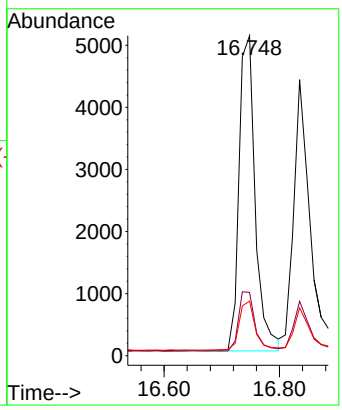
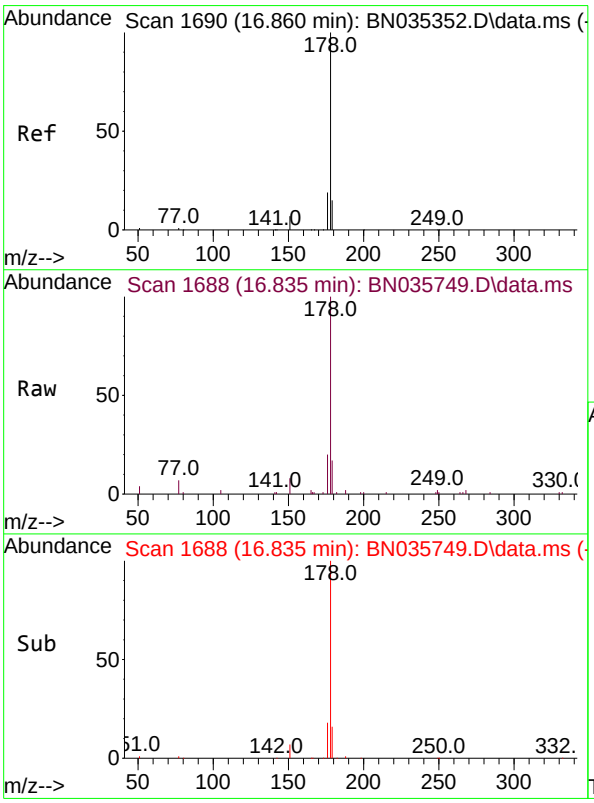
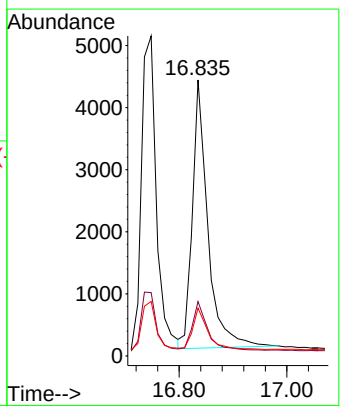


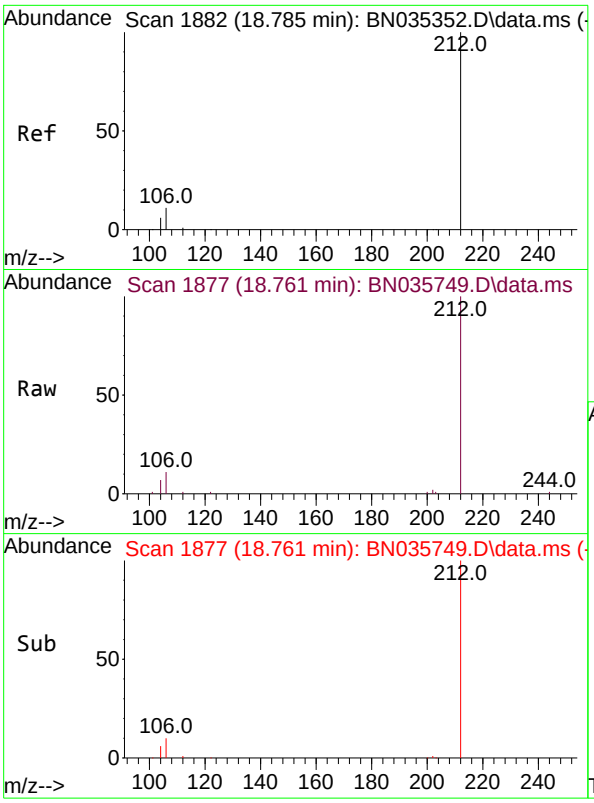


#26
Anthracene
Concen: 0.378 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.6
179	15.3	12.6	18.8

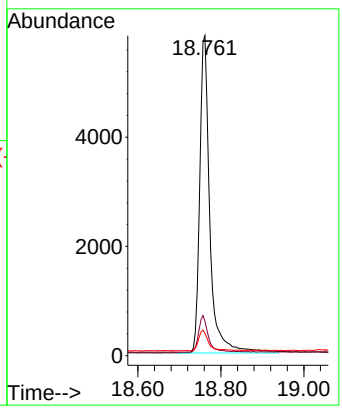




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:212 Resp: 985

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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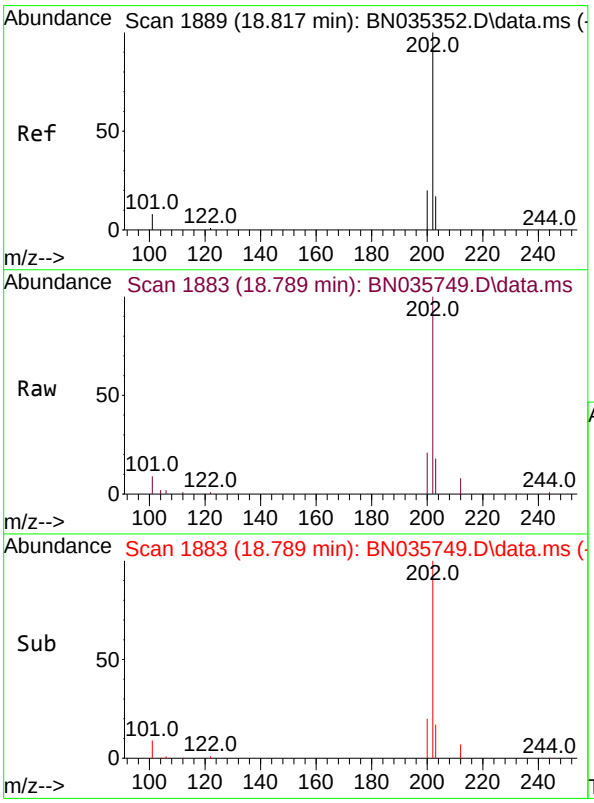
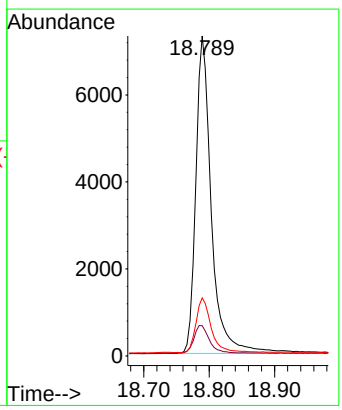
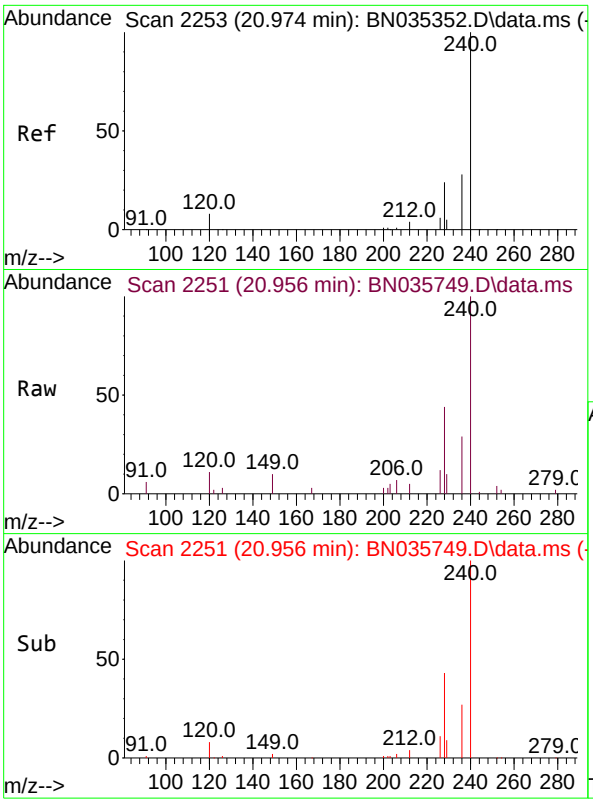


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12002

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

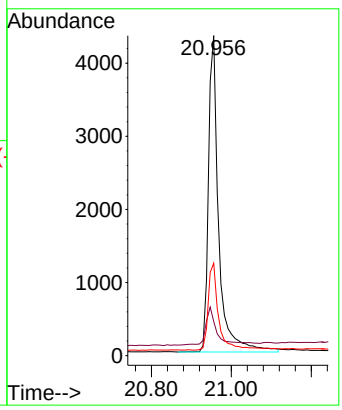




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:240 Resp: 771

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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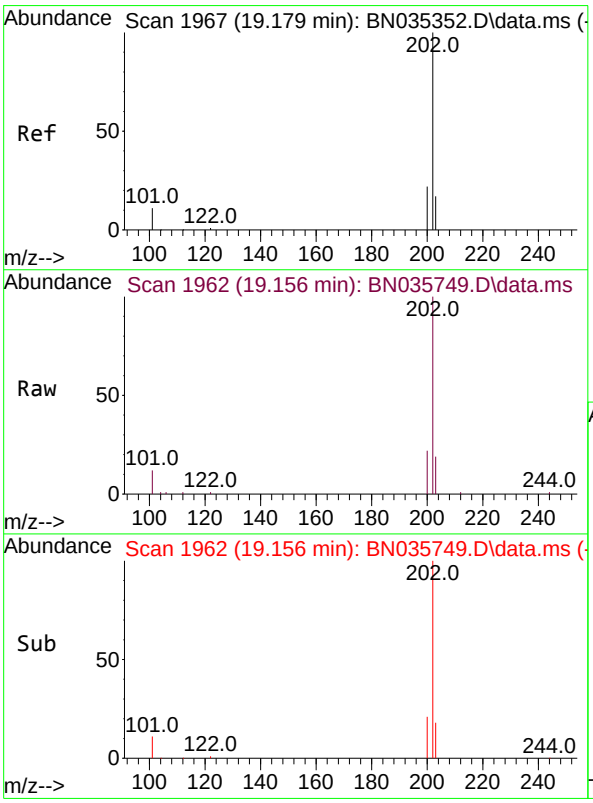
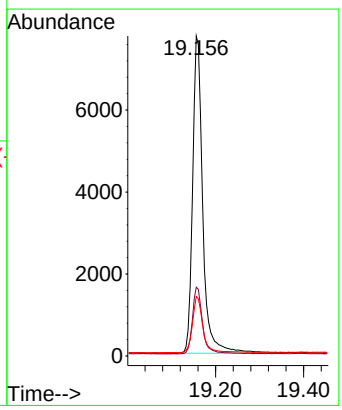
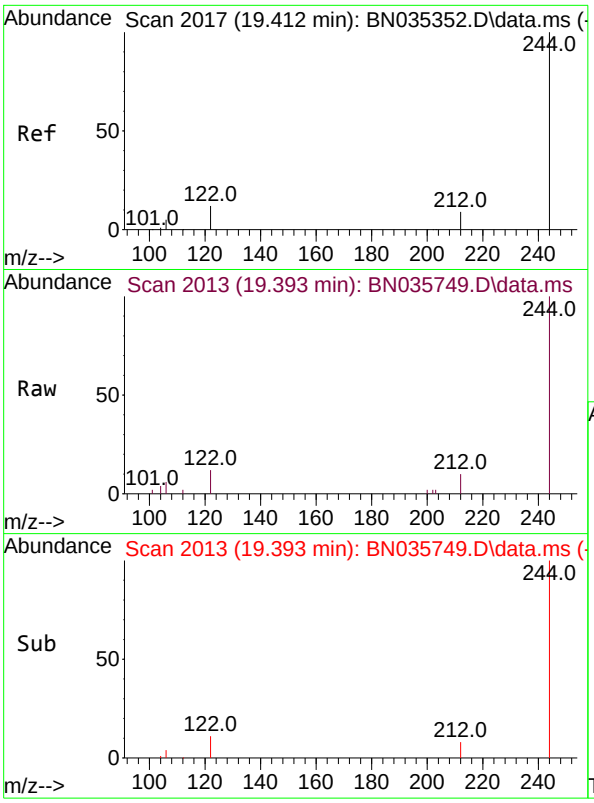


#30
Pyrene
Concen: 0.438 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12468

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.8	14.3	21.5

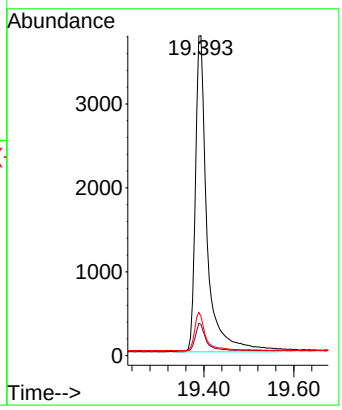




#31
Terphenyl-d14
Concen: 0.452 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:244 Resp: 688

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	12.4	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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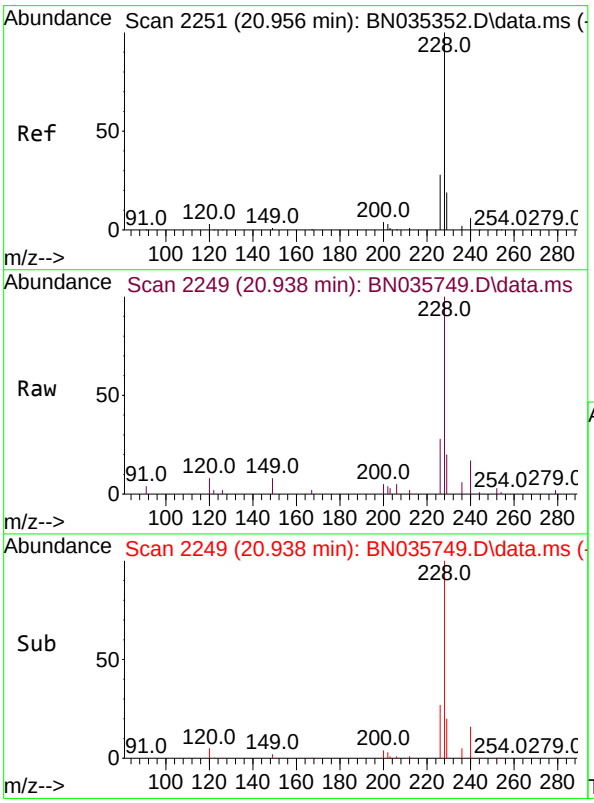
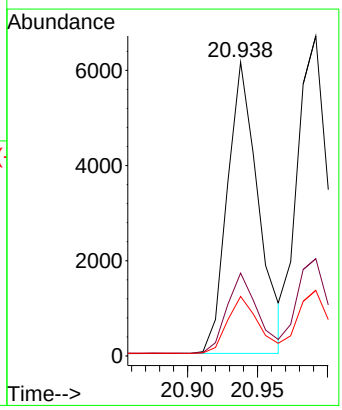
Supervised By :mohammad ahmed 12/24/2024

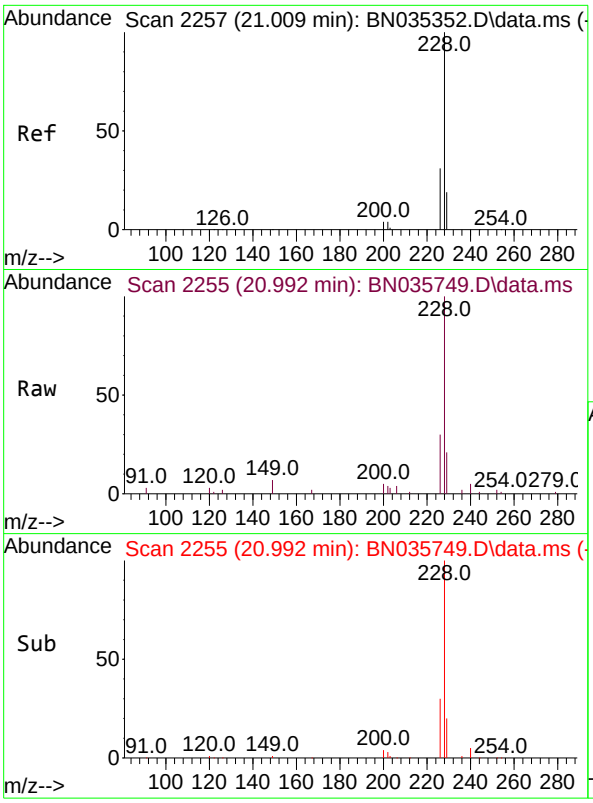


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:228 Resp: 9472

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.3	15.8	23.8

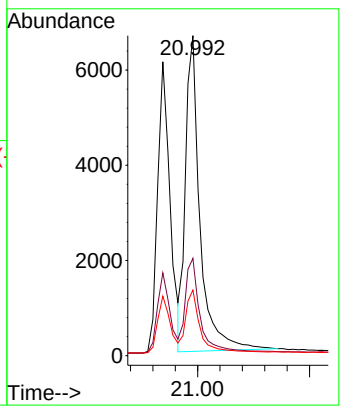




#33
Chrysene
Concen: 0.429 ng
RT: 20.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:228 Resp: 1195

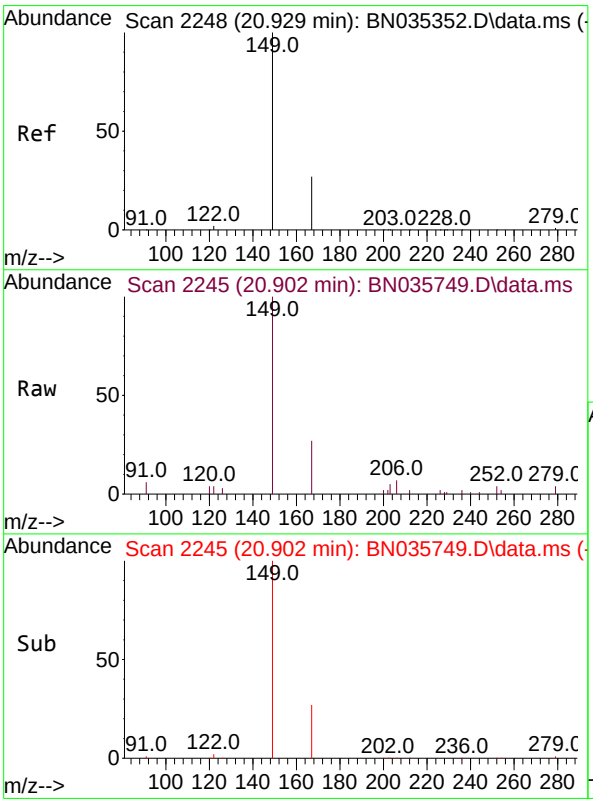
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

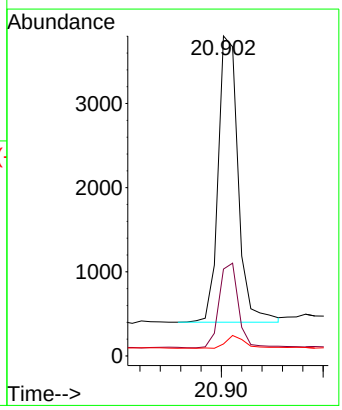
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

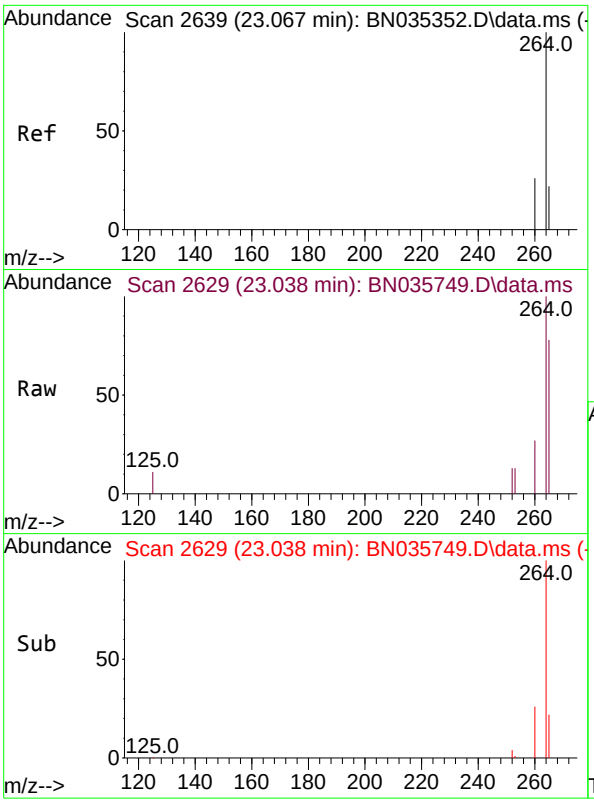


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:149 Resp: 4632

Ion	Ratio	Lower	Upper
149	100		
167	28.9	22.2	33.4
279	4.5	2.7	4.1#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

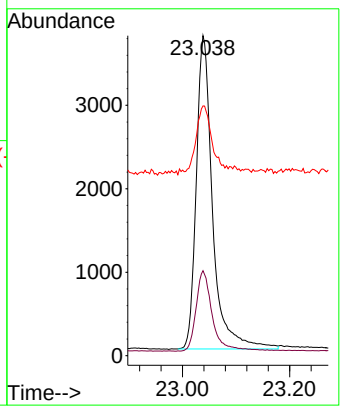
Tgt Ion:264 Resp: 794

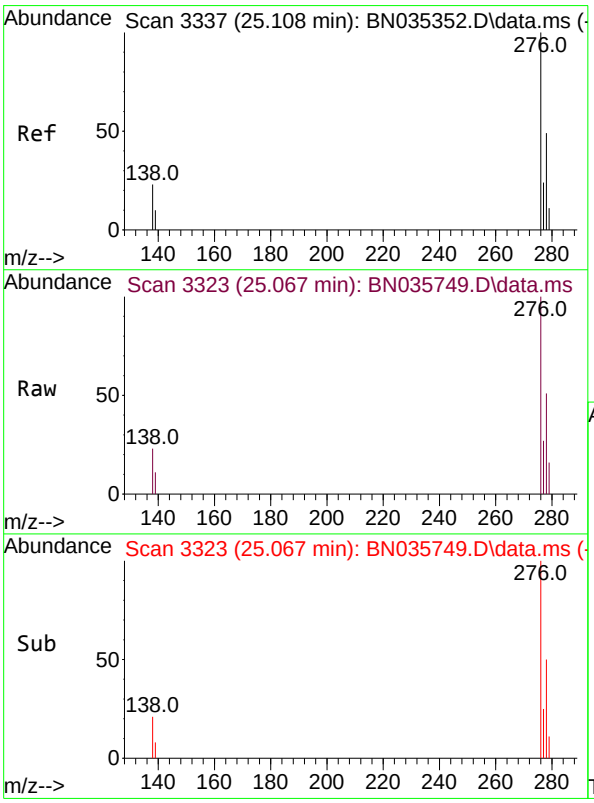
Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	78.1	40.2	60.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

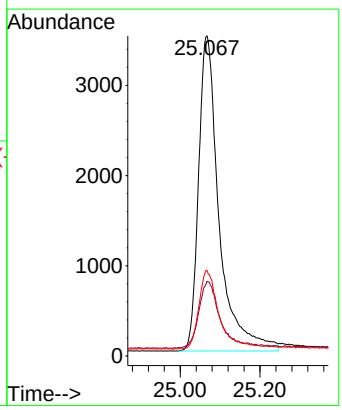


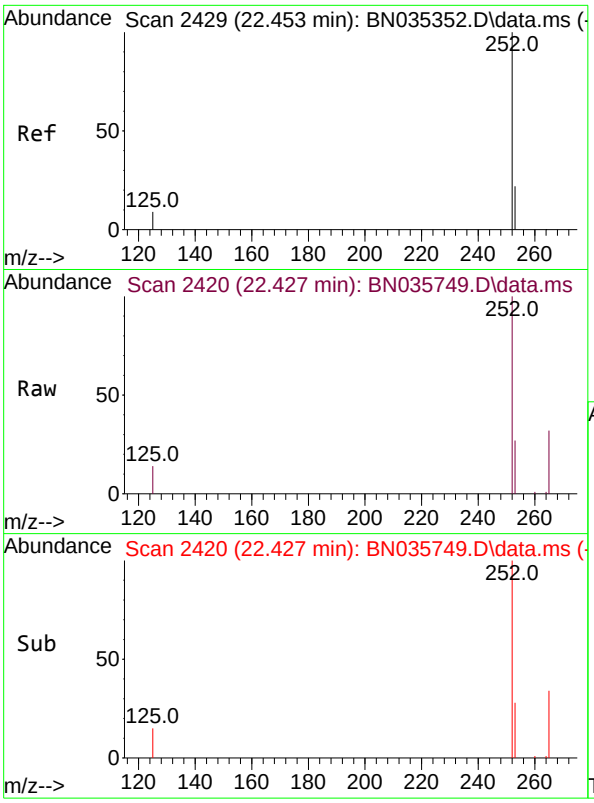


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:276 Resp: 12531

Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.4	29.0
277	24.2	19.8	29.6

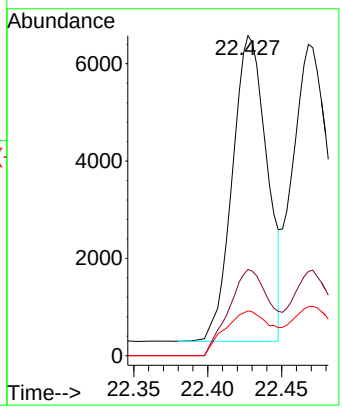




#37
Benzo(b)fluoranthene
Concen: 0.472 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 1370

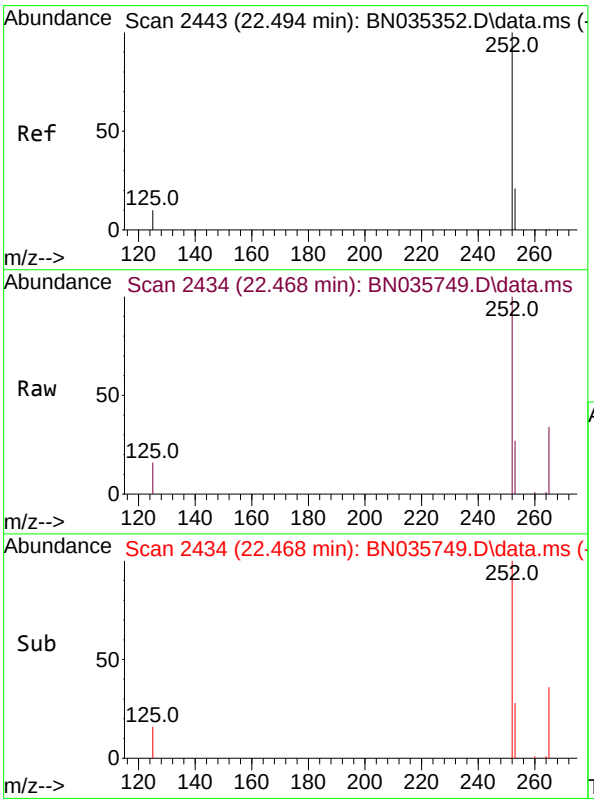
Ion	Ratio	Lower	Upper
252	100		
253	26.9	19.6	29.4
125	14.0	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

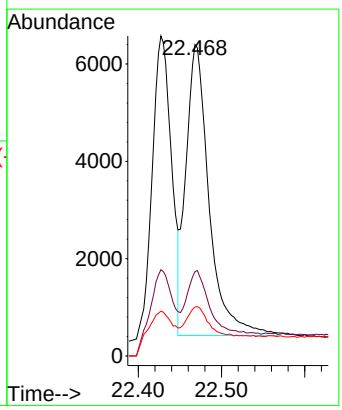
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

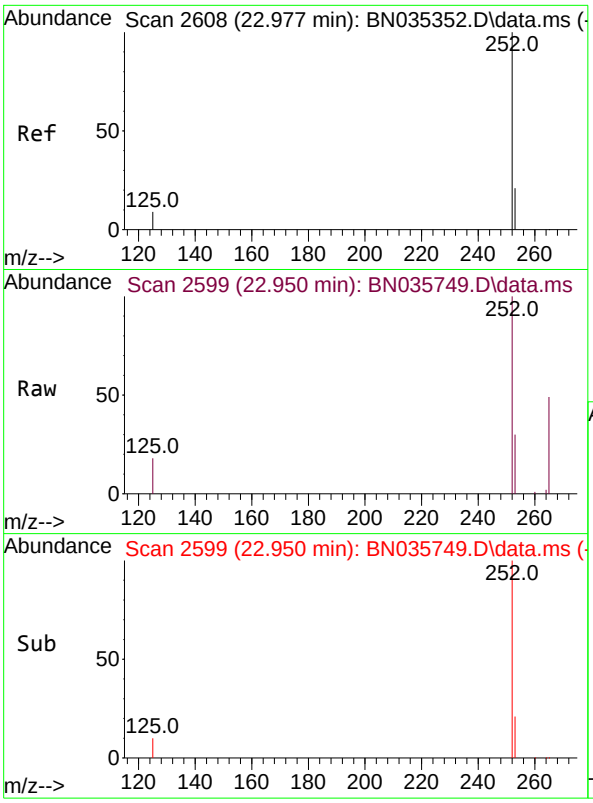


#38
Benzo(k)fluoranthene
Concen: 0.406 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 11604

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.5	29.3
125	15.7	10.2	15.4#

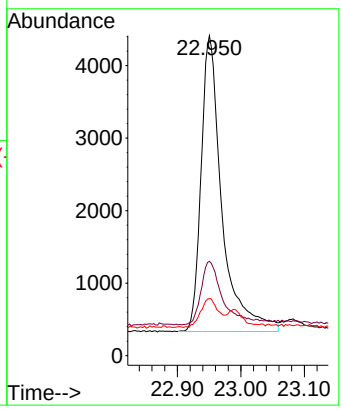




#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 22.950 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 930

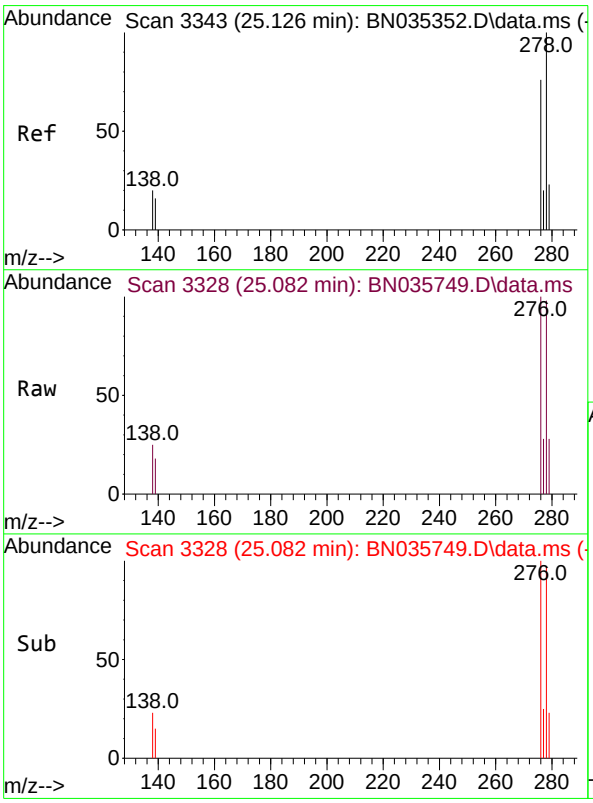
Ion	Ratio	Lower	Upper
252	100		
253	29.5	20.2	30.4
125	17.9	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

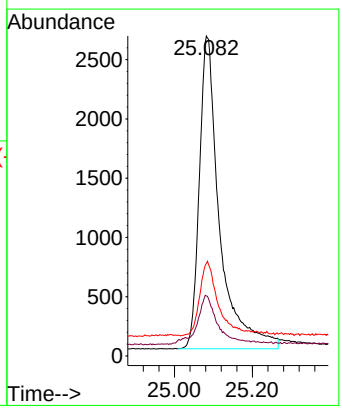
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

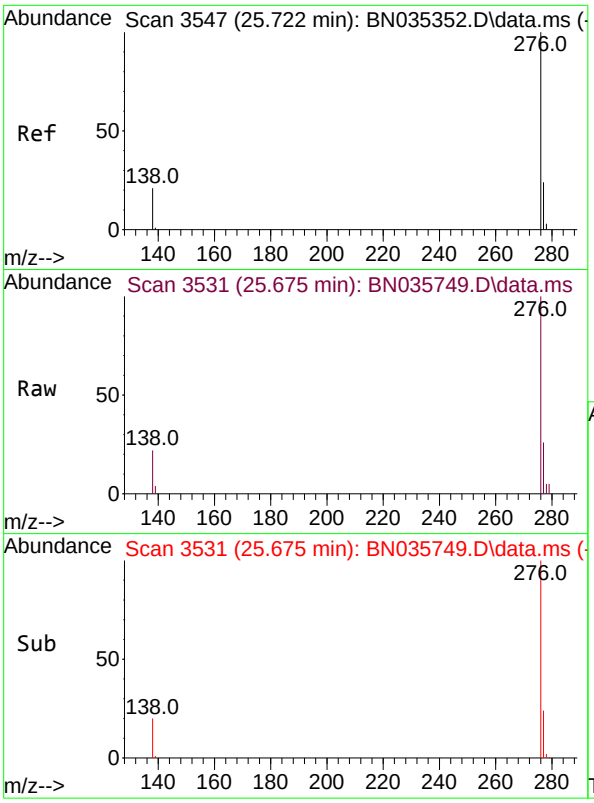


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:278 Resp: 9530

Ion	Ratio	Lower	Upper
278	100		
139	18.7	14.2	21.4
279	28.9	20.5	30.7

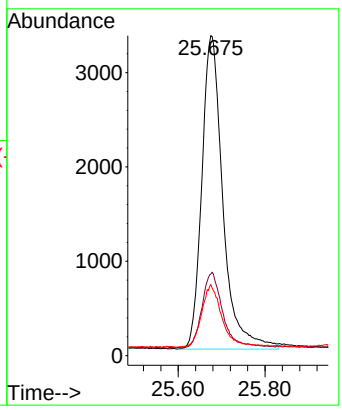




#41
Benzo(g,h,i)perylene
Concen: 0.438 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:276 Resp: 1121

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Sample Results: **BN035749.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	141	0.00
2		1,4-Dioxane	0.382	0.445	-16.5	167#	0.00
3		n-Nitrosodimethylamine	0.319	0.359	-12.5	155#	0.00
4	S	2-Fluorophenol	1.001	1.021	-2.0	141	0.00
5	S	Phenol-d6	1.204	1.178	2.2	139	0.00
6		bis(2-Chloroethyl)ether	1.012	0.907	10.4	129	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	143	-0.01
8	S	Nitrobenzene-d5	0.244	0.294	-20.5	179#	0.00
9		Naphthalene	1.055	1.088	-3.1	148	0.00
10		Hexachlorobutadiene	0.243	0.282	-16.0	163#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.622	0.6	143	0.00
12		2-Methylnaphthalene	0.755	0.713	5.6	138	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	121	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.235	17.3	111	0.00
15	S	2-Fluorobiphenyl	1.512	1.560	-3.2	125	0.00
16		Acenaphthylene	1.680	1.624	3.3	123	-0.01
17		Acenaphthene	1.115	1.128	-1.2	126	-0.01
18		Fluorene	1.596	1.464	8.3	115	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.011	71.8#	29#	0.01
21		4-Bromophenyl-phenylether	0.234	0.230	1.7	98	-0.01
22		Hexachlorobenzene	0.275	0.335	-21.8	119	-0.01
23		Atrazine	0.167	0.173	-3.6	108	0.00
24		Pentachlorophenol	0.120	0.110	8.3	112	0.00
25		Phenanthrene	1.099	1.074	2.3	97	0.00
26		Anthracene	0.994	0.939	5.5	97	0.00
27	SURR	Fluoranthene-d10	1.134	1.074	5.3	96	0.00
28		Fluoranthene	1.481	1.307	11.7	89	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	81	0.00
30		Pyrene	1.477	1.615	-9.3	89	0.00
31	S	Terphenyl-d14	0.789	0.891	-12.9	91	0.00
32		Benzo(a)anthracene	1.399	1.227	12.3	73	0.00
33		Chrysene	1.443	1.548	-7.3	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.600	-8.5	94	0.00
35	I	Perylene-d12	1.000	1.000	0.0	73	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.578	-0.9	75	0.00
37		Benzo(b)fluoranthene	1.463	1.726	-18.0	96	0.00
38		Benzo(k)fluoranthene	1.440	1.461	-1.5	76	0.00
39	C	Benzo(a)pyrene	1.205	1.171	2.8	75	0.00
40		Dibenzo(a,h)anthracene	1.234	1.200	2.8	74	0.00
41		Benzo(g,h,i)perylene	1.289	1.412	-9.5	83	0.00

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN035749.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	141	0.00
2		1,4-Dioxane	0.400	0.466	-16.5	167	0.00
3		n-Nitrosodimethylamine	0.400	0.451	-12.7	155	0.00
4	S	2-Fluorophenol	0.400	0.408	-2.0	141	0.00
5	S	Phenol-d6	0.400	0.391	2.3	139	0.00
6		bis(2-Chloroethyl)ether	0.400	0.359	10.3	129	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	143	-0.01
8	S	Nitrobenzene-d5	0.400	0.481	-20.2	179	0.00
9		Naphthalene	0.400	0.412	-3.0	148	0.00
10		Hexachlorobutadiene	0.400	0.464	-16.0	163	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	143	0.00
12		2-Methylnaphthalene	0.400	0.378	5.5	138	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	121	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.331	17.3	111	0.00
15	S	2-Fluorobiphenyl	0.400	0.413	-3.2	125	0.00
16		Acenaphthylene	0.400	0.387	3.3	123	-0.01
17		Acenaphthene	0.400	0.405	-1.3	126	-0.01
18		Fluorene	0.400	0.367	8.3	115	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	97	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.110	72.5#	29	0.01
21		4-Bromophenyl-phenylether	0.400	0.393	1.8	98	-0.01
22		Hexachlorobenzene	0.400	0.487	-21.7	119	-0.01
23		Atrazine	0.400	0.414	-3.5	108	0.00
24		Pentachlorophenol	0.400	0.370	7.5	112	0.00
25		Phenanthrene	0.400	0.391	2.3	97	0.00
26		Anthracene	0.400	0.378	5.5	97	0.00
27	SURR	Fluoranthene-d10	0.400	0.379	5.3	96	0.00
28		Fluoranthene	0.400	0.353	11.8	89	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	81	0.00
30		Pyrene	0.400	0.438	-9.5	89	0.00
31	S	Terphenyl-d14	0.400	0.452	-13.0	91	0.00
32		Benzo(a)anthracene	0.400	0.351	12.3	73	0.00
33		Chrysene	0.400	0.429	-7.2	87	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.434	-8.5	94	0.00
35	I	Perylene-d12	0.400	0.400	0.0	73	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.404	-1.0	75	0.00
37		Benzo(b)fluoranthene	0.400	0.472	-18.0	96	0.00
38		Benzo(k)fluoranthene	0.400	0.406	-1.5	76	0.00
39	C	Benzo(a)pyrene	0.400	0.389	2.8	75	0.00
40		Dibenzo(a,h)anthracene	0.400	0.389	2.8	74	0.00
41		Benzo(g,h,i)perylene	0.400	0.438	-9.5	83	0.00

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/21/2024 05:10

Lab File ID: BN035765.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	0.578		-7.7	50.0
Fluoranthene-d10	1.134	0.989		-12.8	50.0
2-Fluorophenol	1.001	0.960		-4.1	50.0
Phenol-d6	1.204	1.094		-9.1	50.0
Nitrobenzene-d5	0.244	0.284		16.4	50.0
2-Fluorobiphenyl	1.512	1.389		-8.1	50.0
2,4,6-Tribromophenol	0.284	0.215		-24.3	50.0
Terphenyl-d14	0.789	0.863		9.4	50.0
1,4-Dioxane	0.382	0.439		14.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 05:39:14 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	3545	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	9106	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5821	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	12321	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	9836	0.400	ng		# 0.00
35) Perylene-d12	23.035	264	10740	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	3403	0.384	ng		0.00
5) Phenol-d6	6.477	99	3879	0.364	ng		-0.01
8) Nitrobenzene-d5	8.408	82	2582m	0.464	ng		0.00
11) 2-Methylnaphthalene-d10	11.616	152	5263	0.369	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1253	0.303	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	8084	0.367	ng		0.00
27) Fluoranthene-d10	18.757	212	12191	0.349	ng		0.00
31) Terphenyl-d14	19.388	244	8488	0.437	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1555	0.459	ng		96
3) n-Nitrosodimethylamine	3.278	42	1104	0.391	ng	#	93
6) bis(2-Chloroethyl)ether	6.723	93	3165	0.353	ng		98
9) Naphthalene	10.063	128	9097	0.379	ng		100
10) Hexachlorobutadiene	10.351	225	2300	0.415	ng	#	99
12) 2-Methylnaphthalene	11.692	142	6016	0.350	ng		99
16) Acenaphthylene	13.636	152	8764	0.359	ng		99
17) Acenaphthene	13.989	154	6047	0.373	ng		98
18) Fluorene	14.993	166	7942	0.342	ng		100
20) 4,6-Dinitro-2-methylph...	15.132	198	142	0.117	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2531	0.351	ng	#	83
22) Hexachlorobenzene	16.003	284	3667	0.433	ng		97
23) Atrazine	16.202	200	1895	0.369	ng		96
24) Pentachlorophenol	16.376	266	1177	0.320	ng	#	86
25) Phenanthrene	16.735	178	12350	0.365	ng		99
26) Anthracene	16.835	178	10612	0.347	ng		99
28) Fluoranthene	18.789	202	15375	0.337	ng		99
30) Pyrene	19.156	202	15587	0.429	ng		100
32) Benzo(a)anthracene	20.938	228	11659	0.339	ng		100
33) Chrysene	20.991	228	14263	0.402	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5697	0.419	ng		99
36) Indeno(1,2,3-cd)pyrene	25.064	276	15666	0.373	ng		99
37) Benzo(b)fluoranthene	22.427	252	19003	0.484	ng		98
38) Benzo(k)fluoranthene	22.468	252	15020m	0.388	ng		
39) Benzo(a)pyrene	22.947	252	11742	0.363	ng		94
40) Dibenzo(a,h)anthracene	25.079	278	11661	0.352	ng		97
41) Benzo(g,h,i)perylene	25.675	276	14236	0.411	ng		99

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

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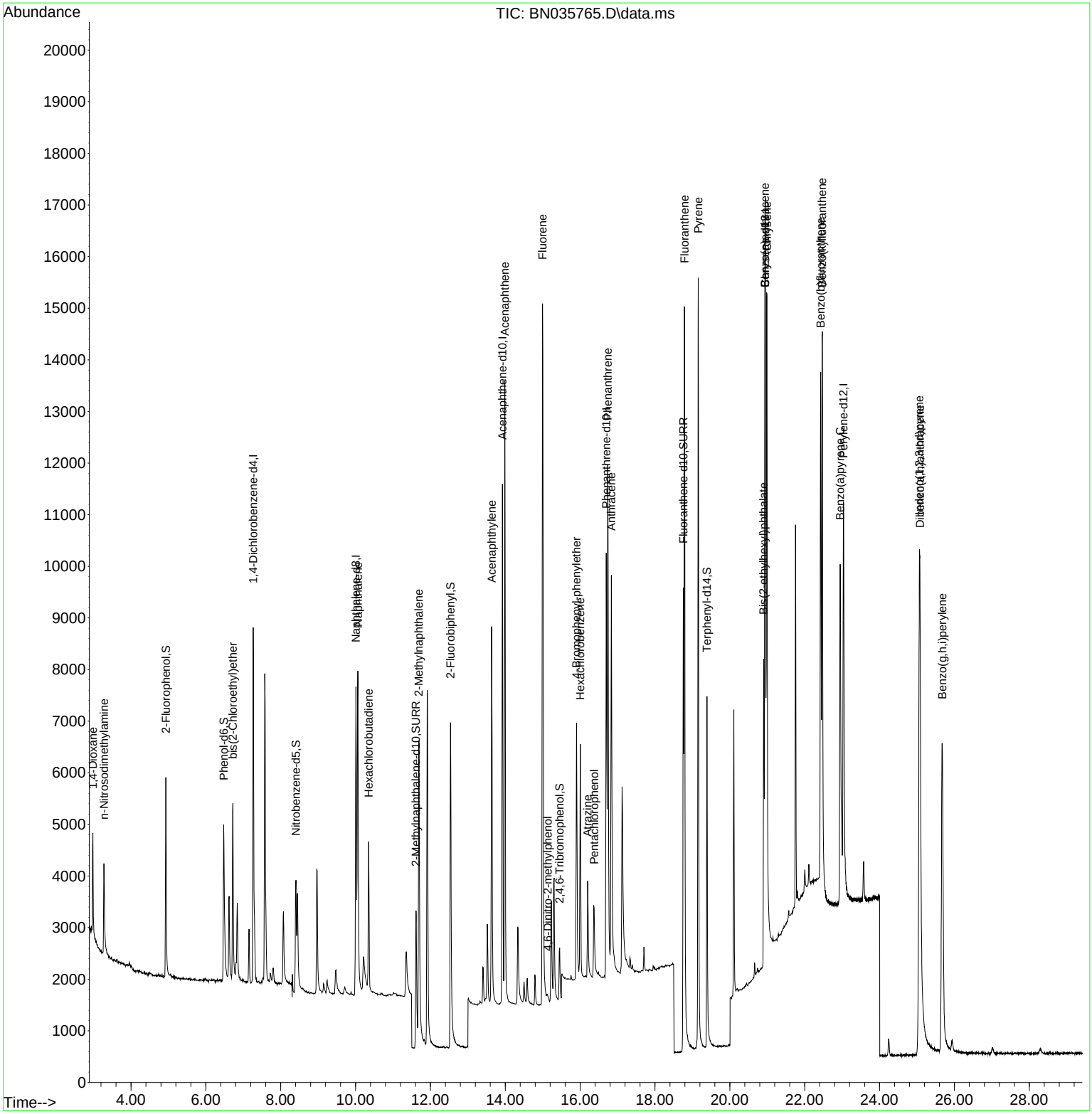
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

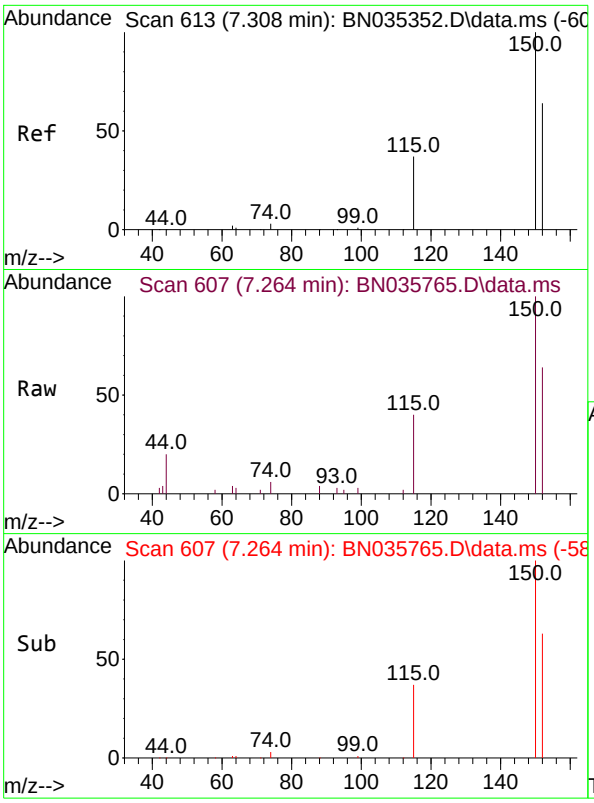
Quant Time: Dec 21 05:39:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

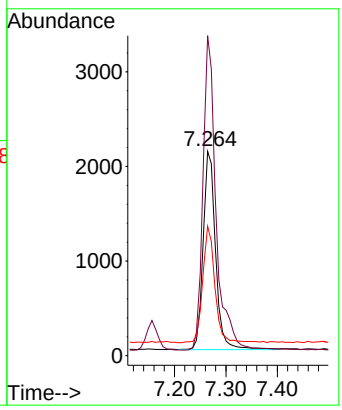




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:152 Resp: 354

Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.0	186.0
115	63.3	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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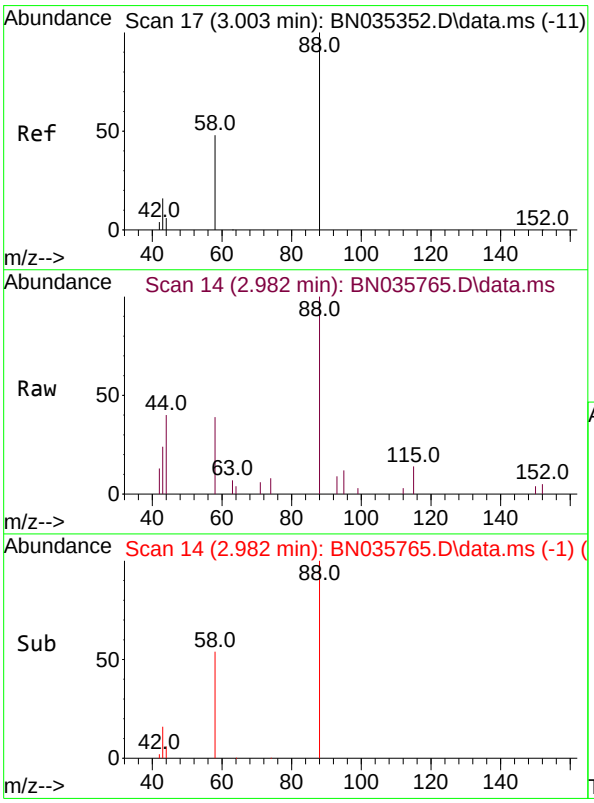
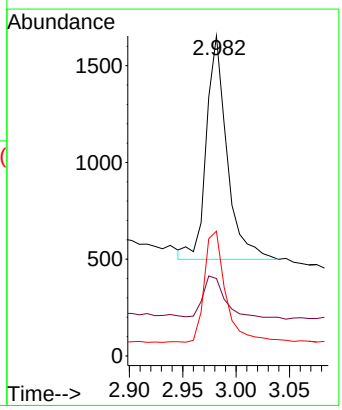
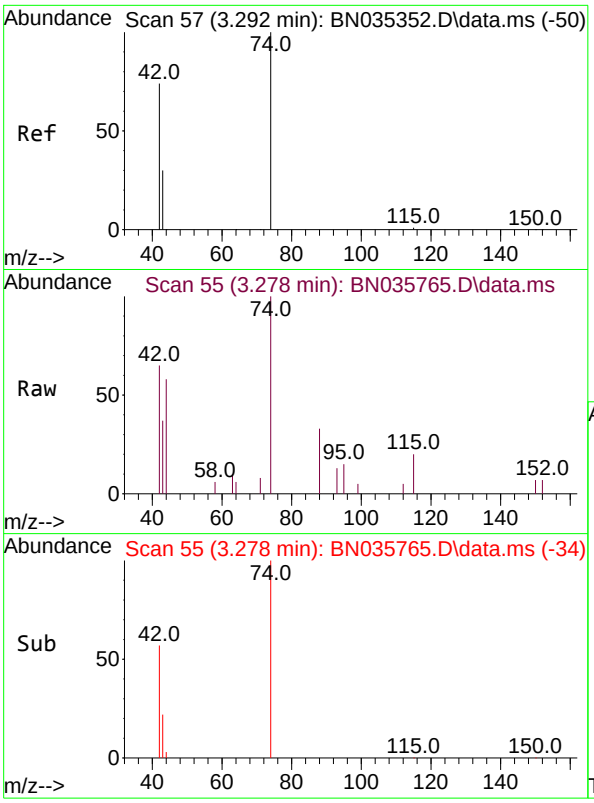


#2
1,4-Dioxane
Concen: 0.459 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 88 Resp: 1555

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	52.2	44.5	66.7

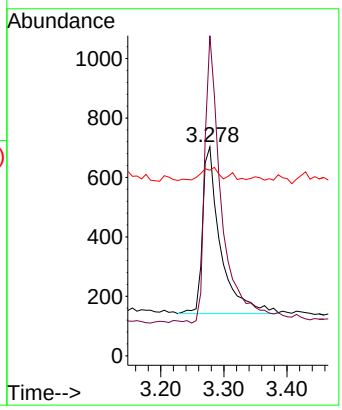




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 42 Resp: 110

Ion	Ratio	Lower	Upper
42	100		
74	165.7	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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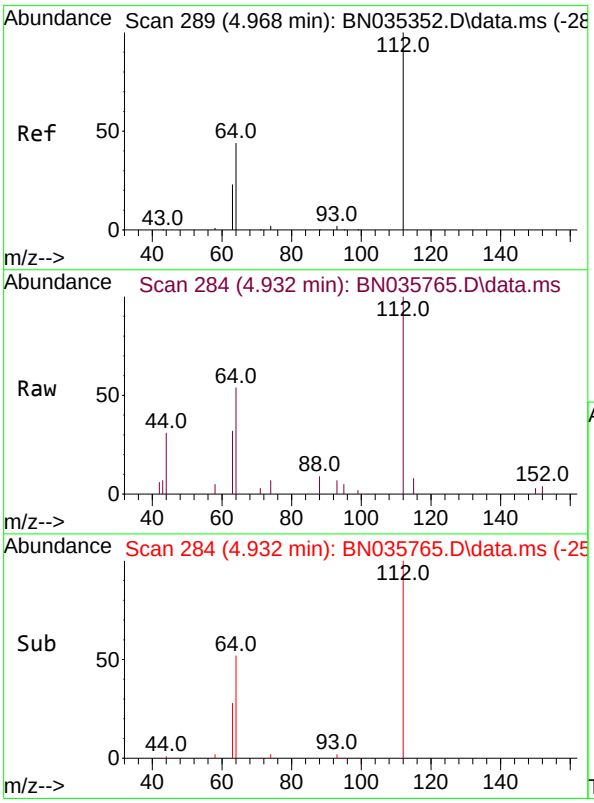
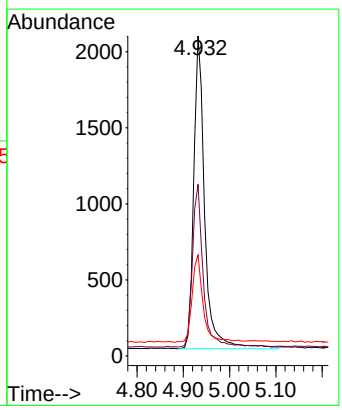
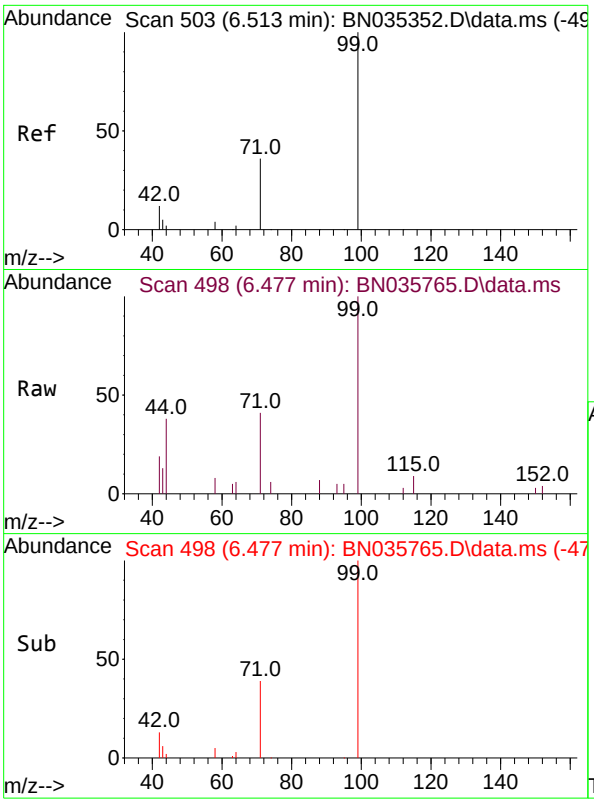


#4
2-Fluorophenol
Concen: 0.384 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:112 Resp: 3403

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.0	21.0	31.6

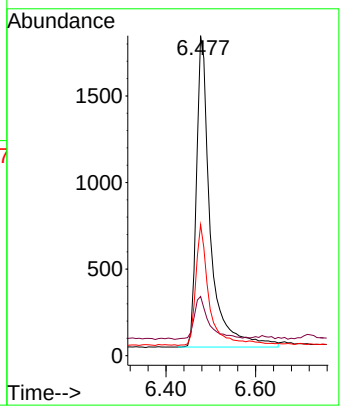




#5
Phenol-d6
Concen: 0.364 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 99 Resp: 387

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	35.9	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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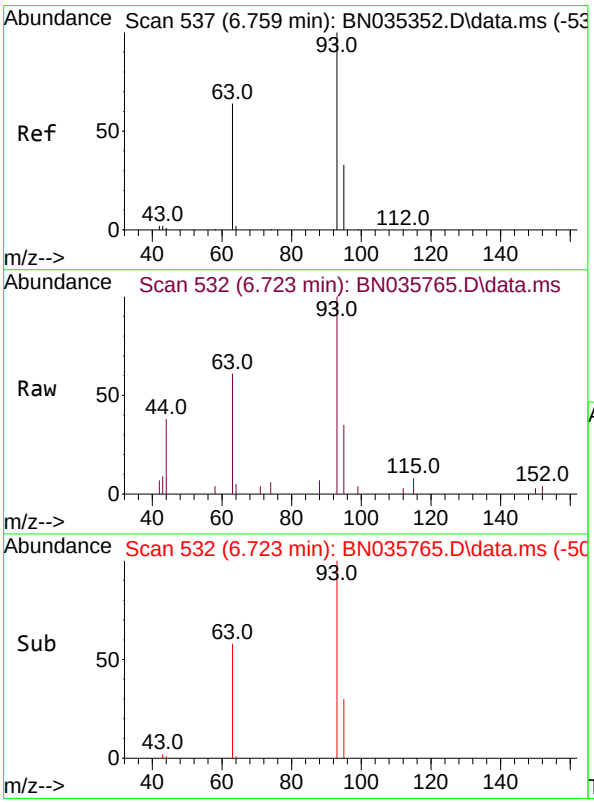
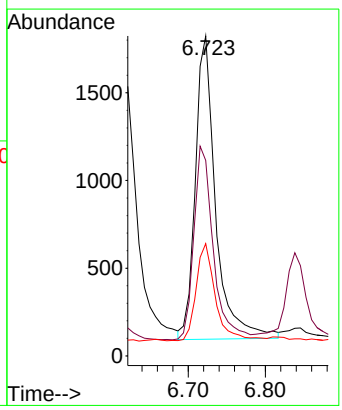
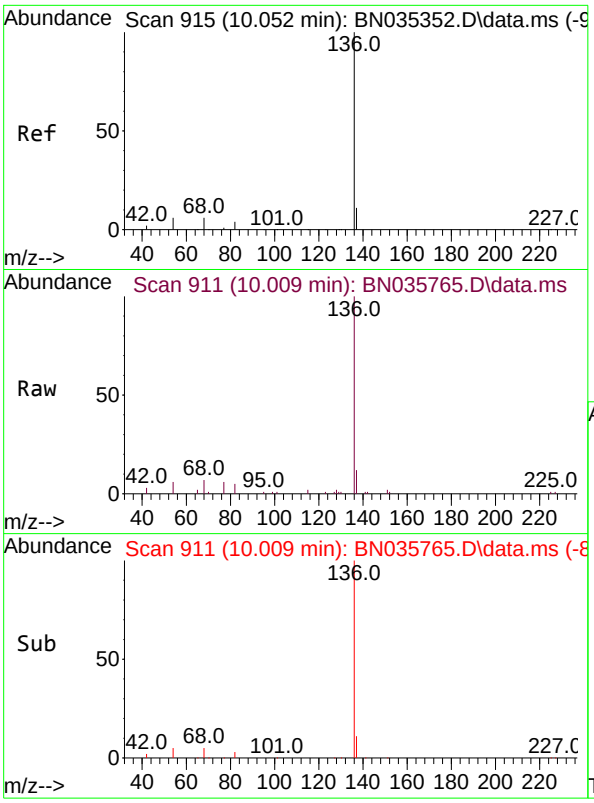


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 93 Resp: 3165

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	30.6	25.7	38.5

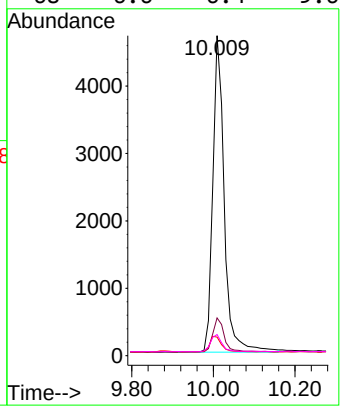




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:136 Resp: 910

Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.2	15.2
54	5.8	6.1	9.1
68	6.6	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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Reviewed By :Jagrut Upadhyay 12/23/2024
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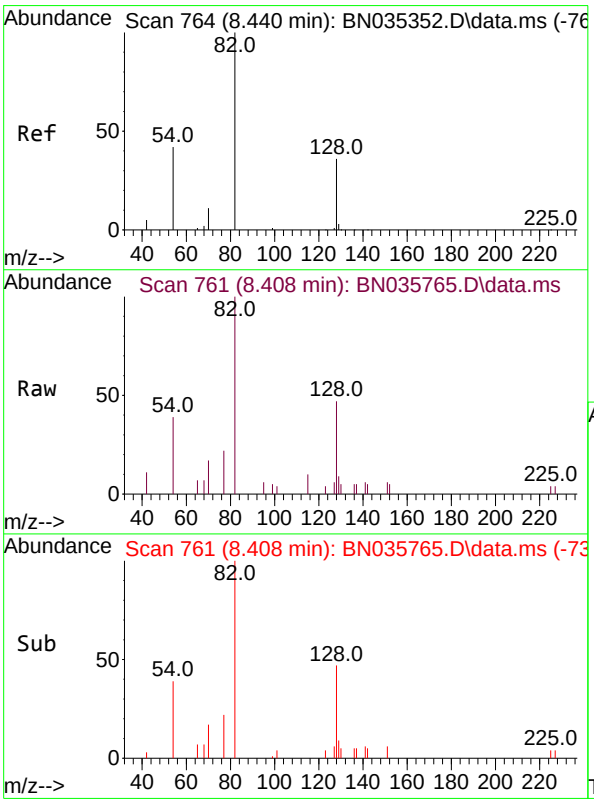
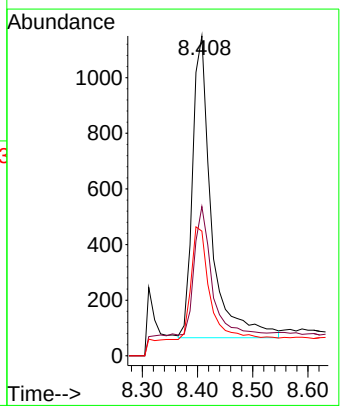
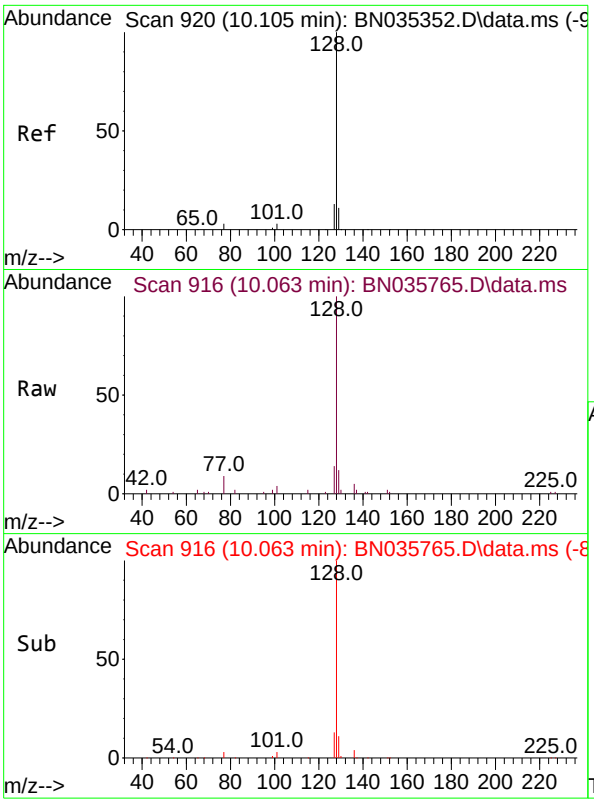


#8
Nitrobenzene-d5
Concen: 0.464 ng m
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 82 Resp: 2582

Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	39.0	36.7	55.1

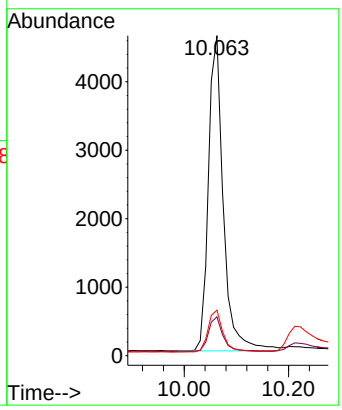




#9
Naphthalene
Concen: 0.379 ng
RT: 10.063 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:128 Resp: 909

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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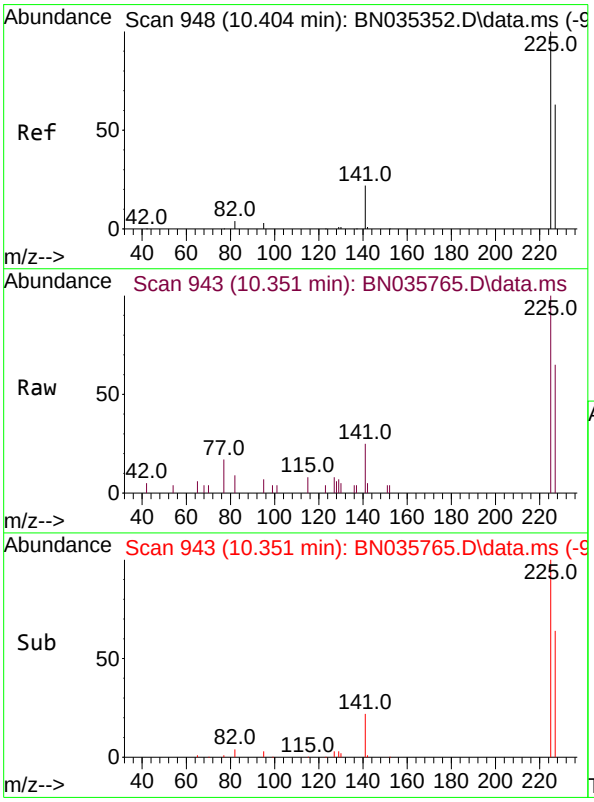
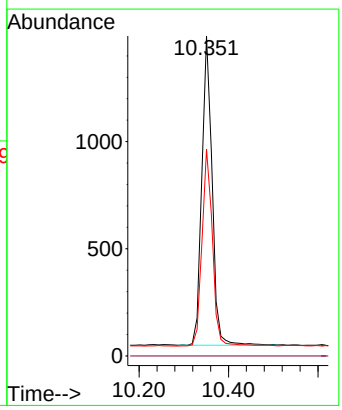
Supervised By :mohammad ahmed 12/24/2024

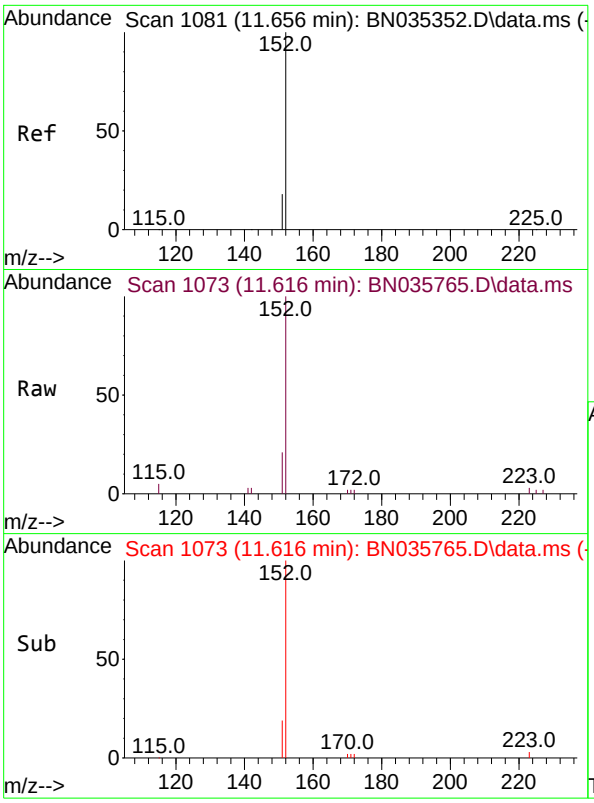


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:225 Resp: 2300

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:152 Resp: 526

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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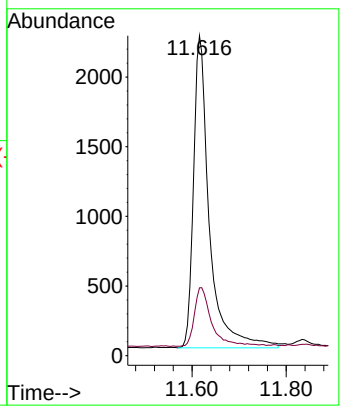
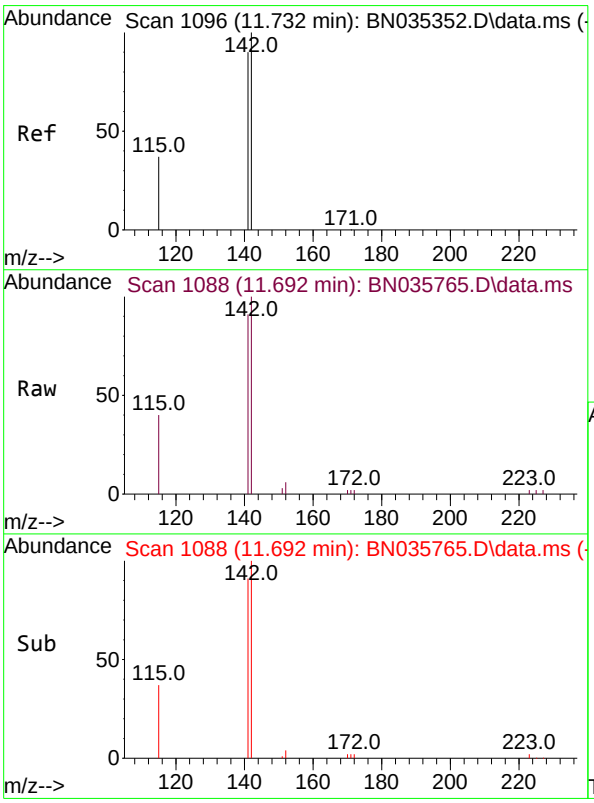
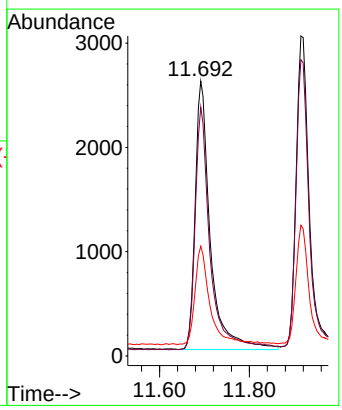


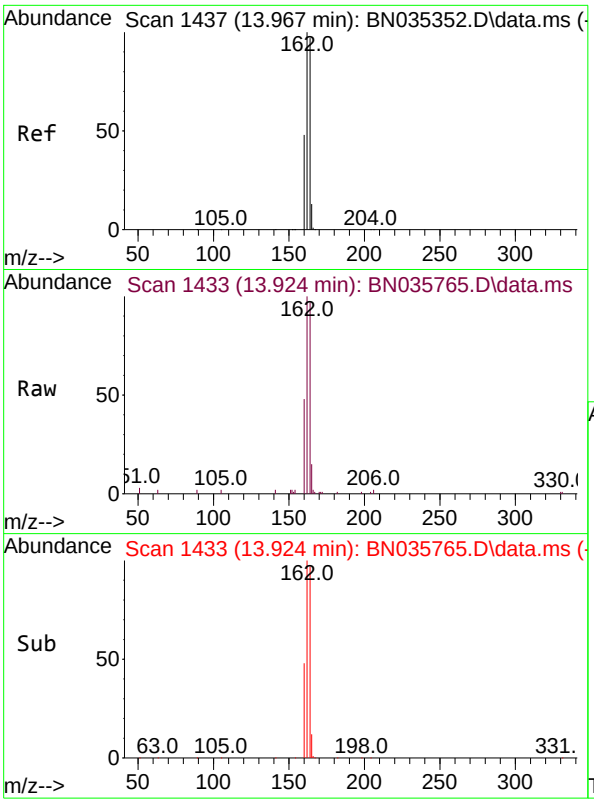


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:142 Resp: 6016

Ion	Ratio	Lower	Upper
142	100		
141	90.5	72.2	108.4
115	39.9	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: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:164 Resp: 582

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.6	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
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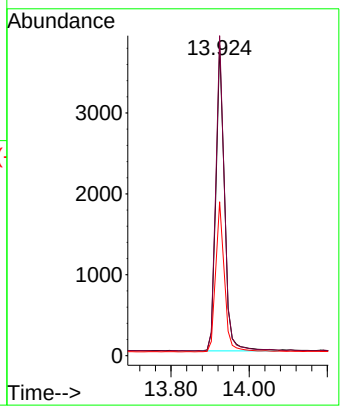
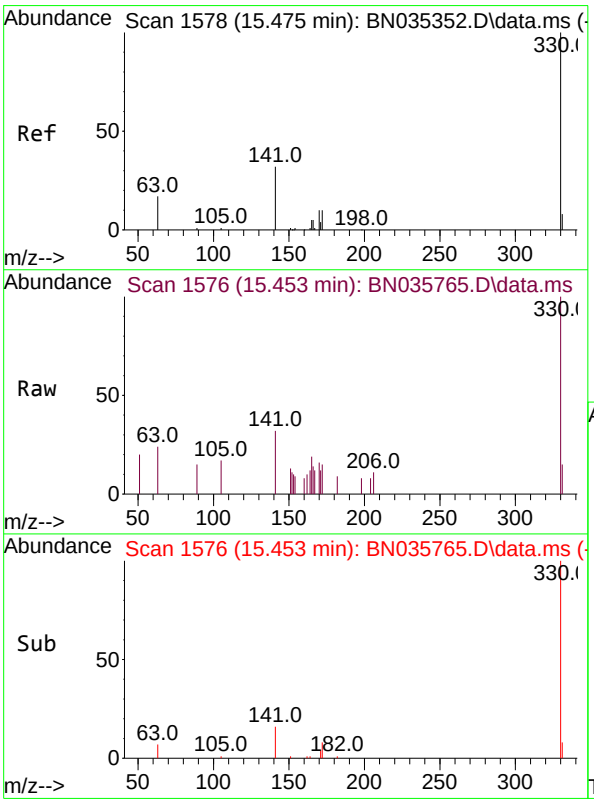
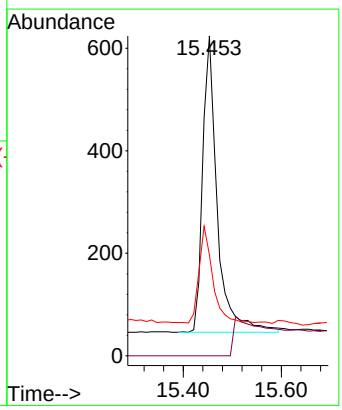


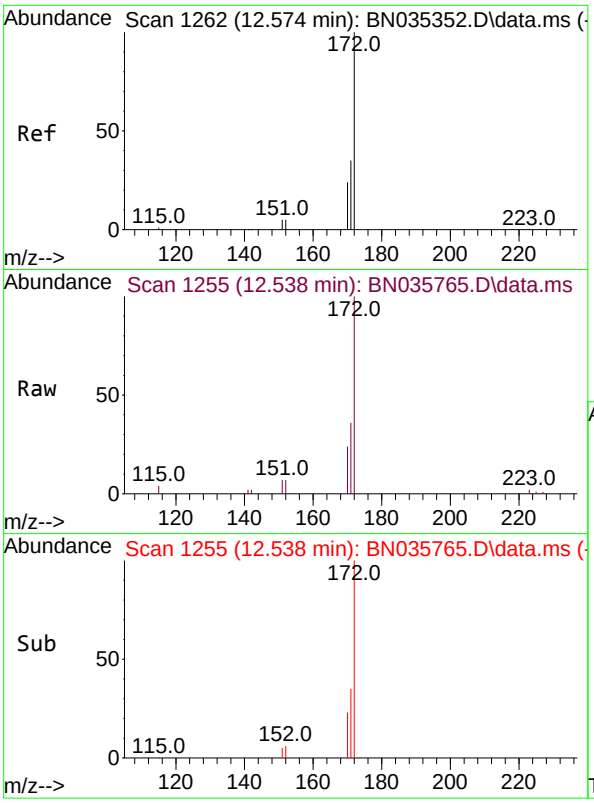


#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:330 Resp: 1253

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.6	26.6	40.0

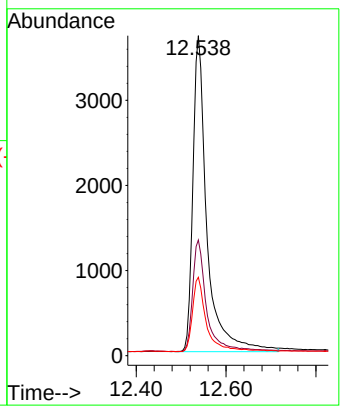




#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:172 Resp: 808

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
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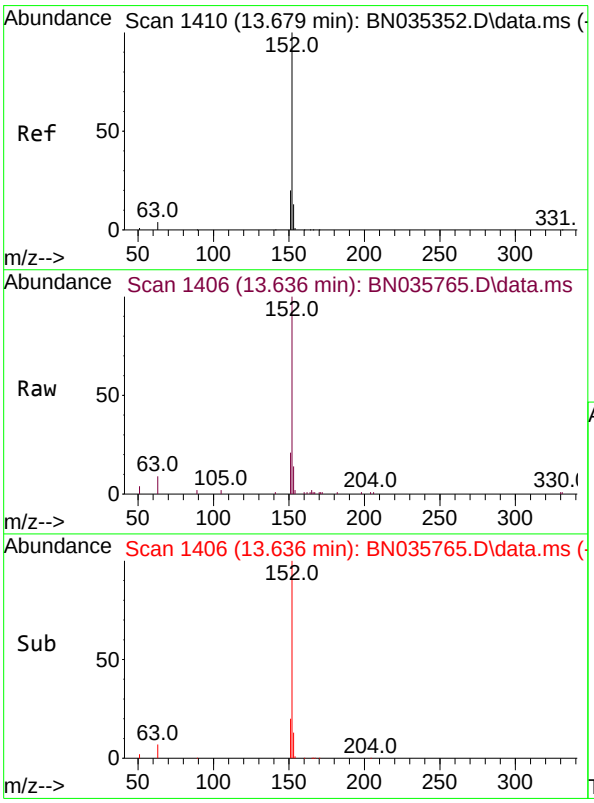
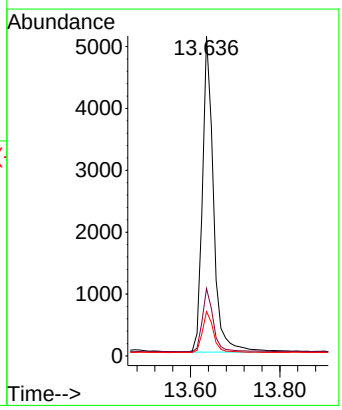
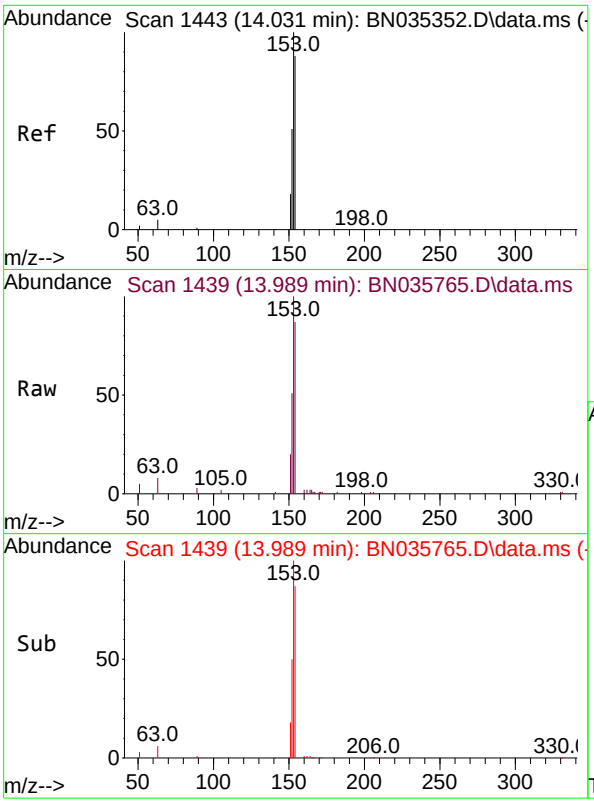


#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:152 Resp: 8764

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.0	10.4	15.6

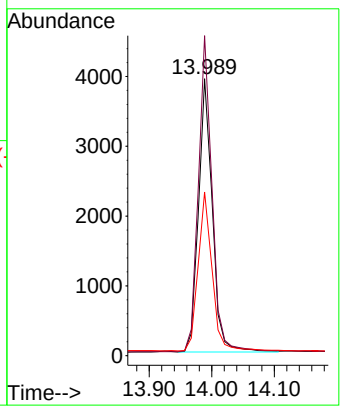




#17
Acenaphthene
Concen: 0.373 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:154 Resp: 604

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.8	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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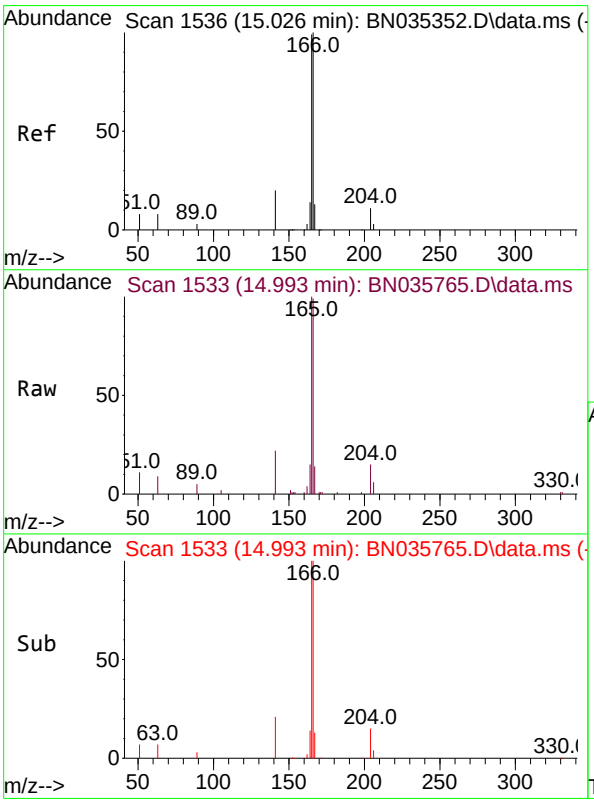
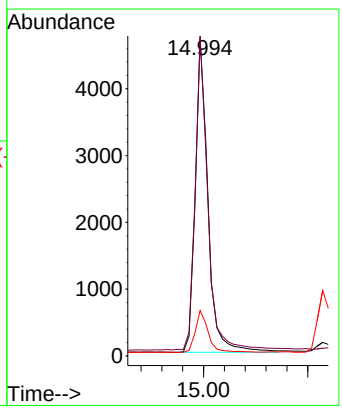
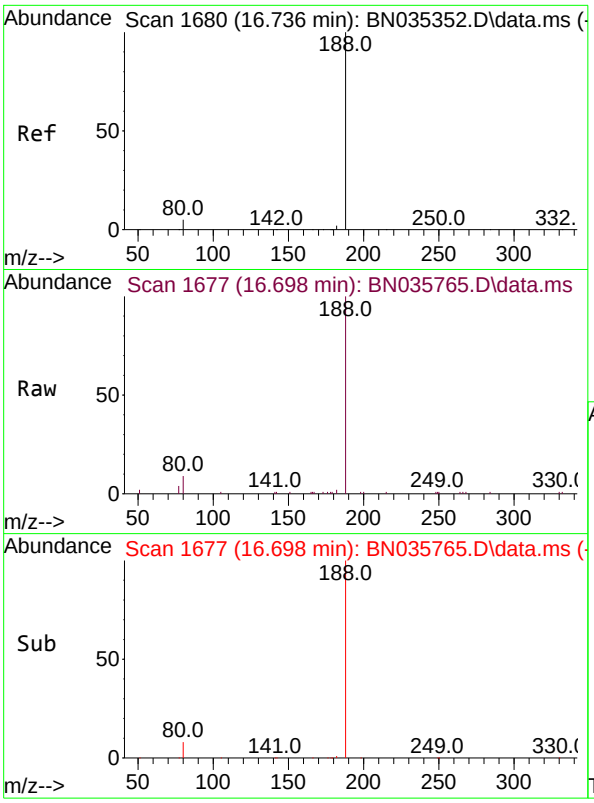


#18
Fluorene
Concen: 0.342 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2

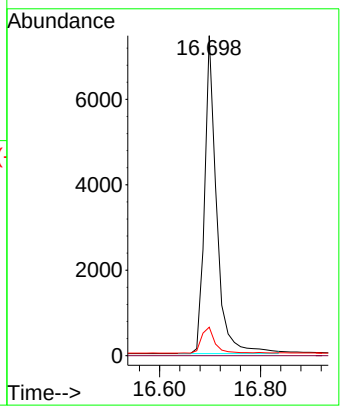




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:188 Resp: 1232

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
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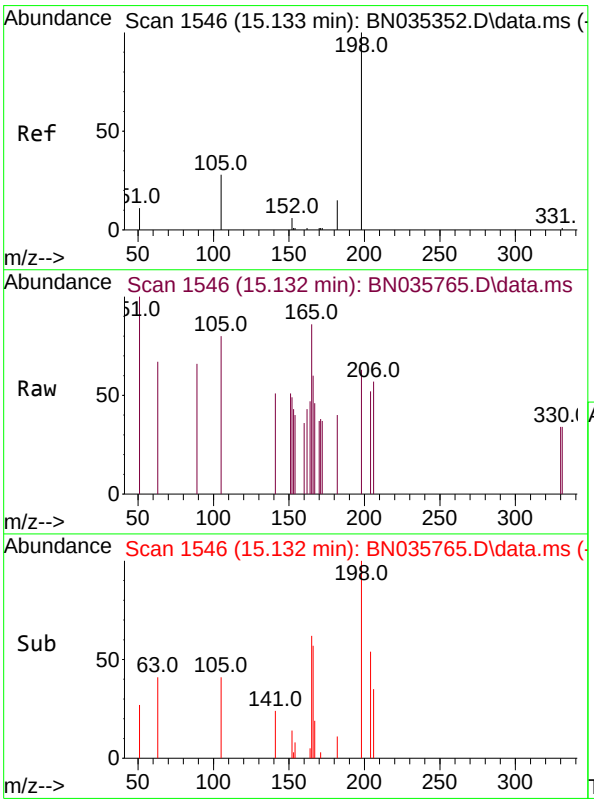
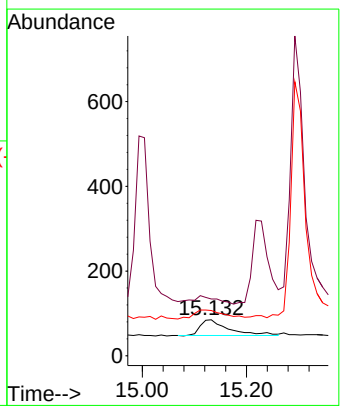
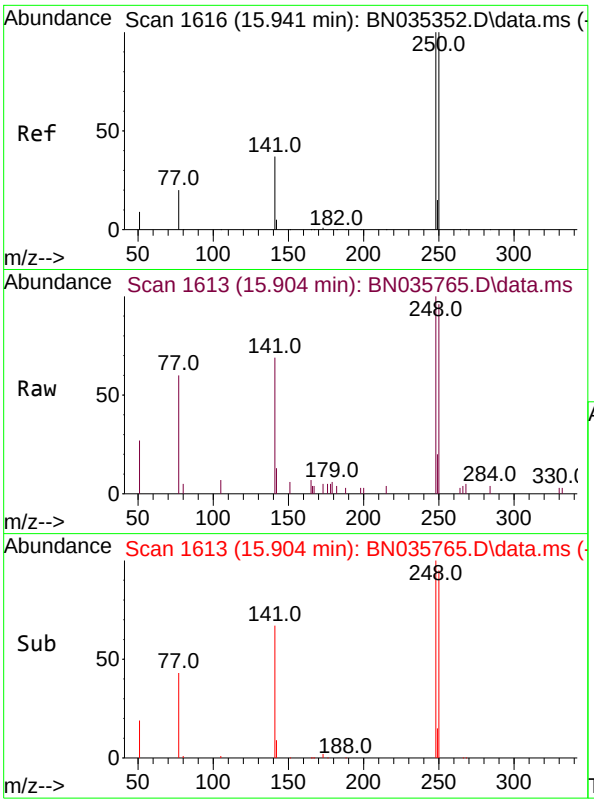


#20
4,6-Dinitro-2-methylphenol
Concen: 0.117 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:198 Resp: 142

Ion	Ratio	Lower	Upper
198	100		
51	157.6	46.5	69.7#
105	125.9	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:248 Resp: 253

Ion	Ratio	Lower	Upper
248	100		
250	96.2	80.6	120.8
141	69.2	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
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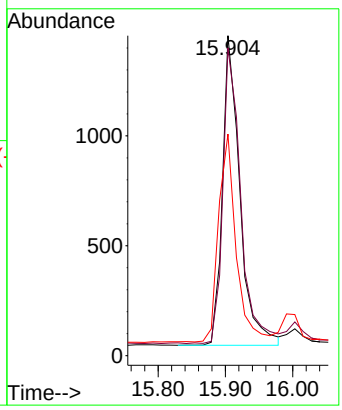
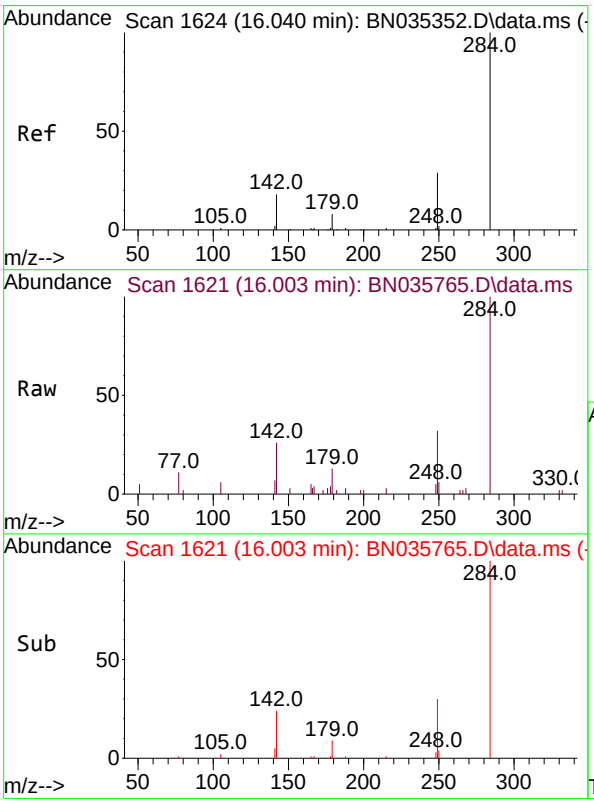
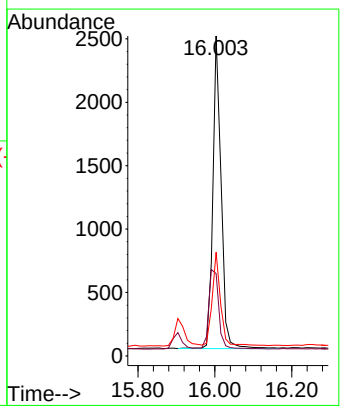


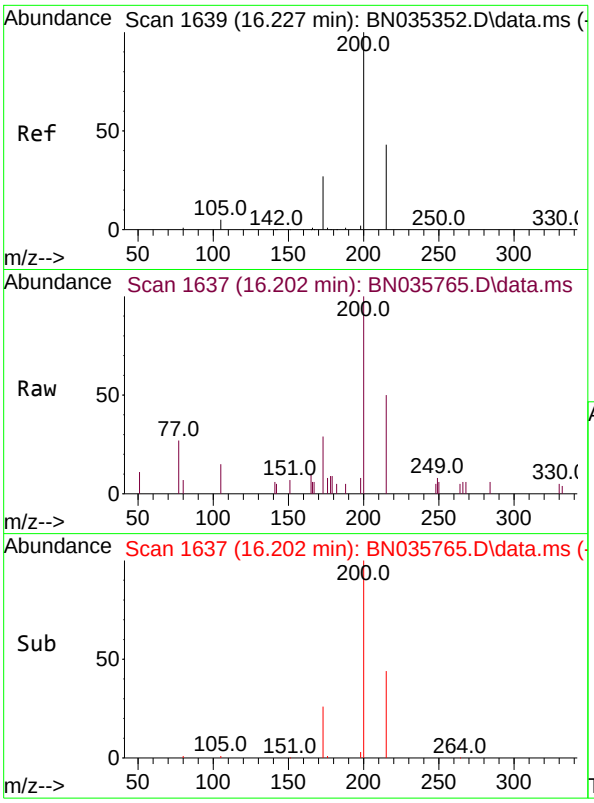


#22
Hexachlorobenzene
Concen: 0.433 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:284 Resp: 3667

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	29.9	24.6	36.8

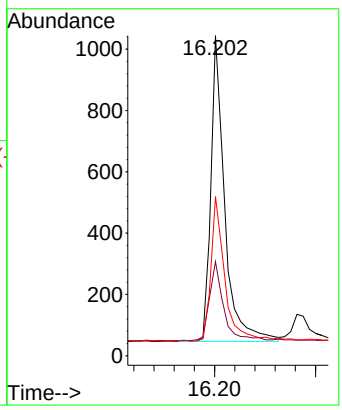




#23
Atrazine
Concen: 0.369 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:200 Resp: 189

Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	49.7	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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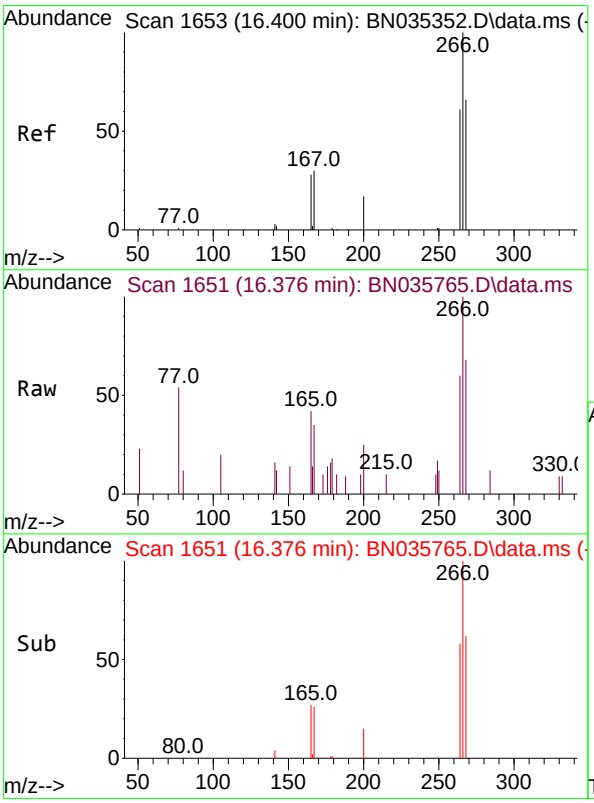
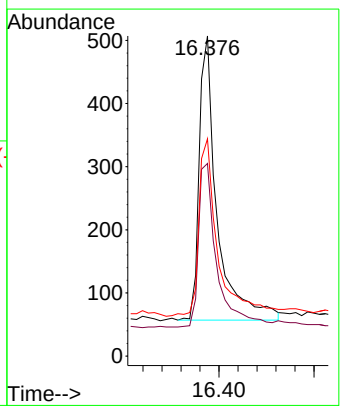
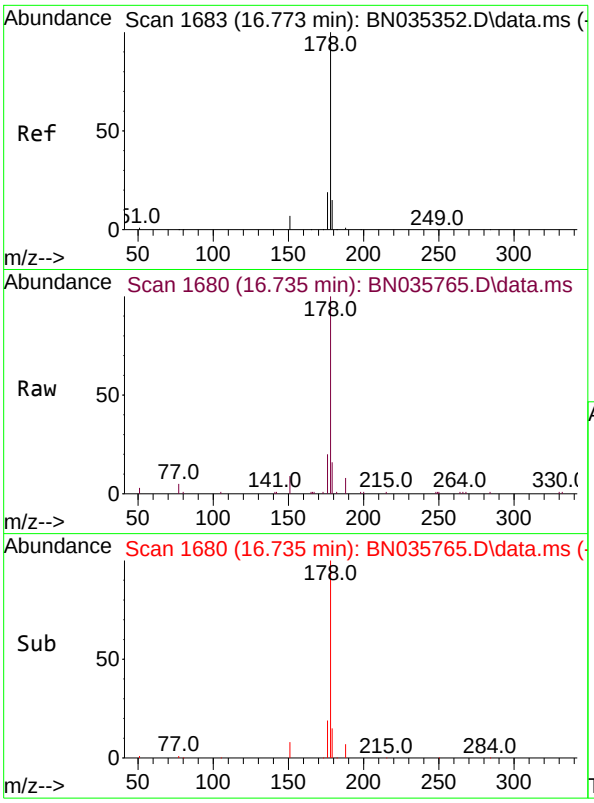


#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:266 Resp: 1177

Ion	Ratio	Lower	Upper
266	100		
264	59.3	42.3	63.5
268	67.2	43.3	64.9#

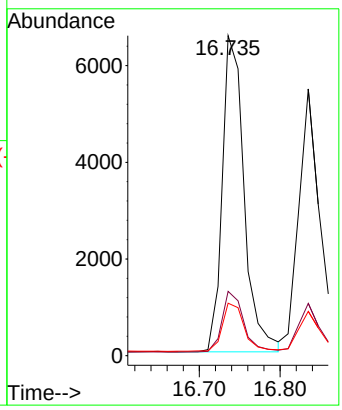




#25
Phenanthrene
Concen: 0.365 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 1235(

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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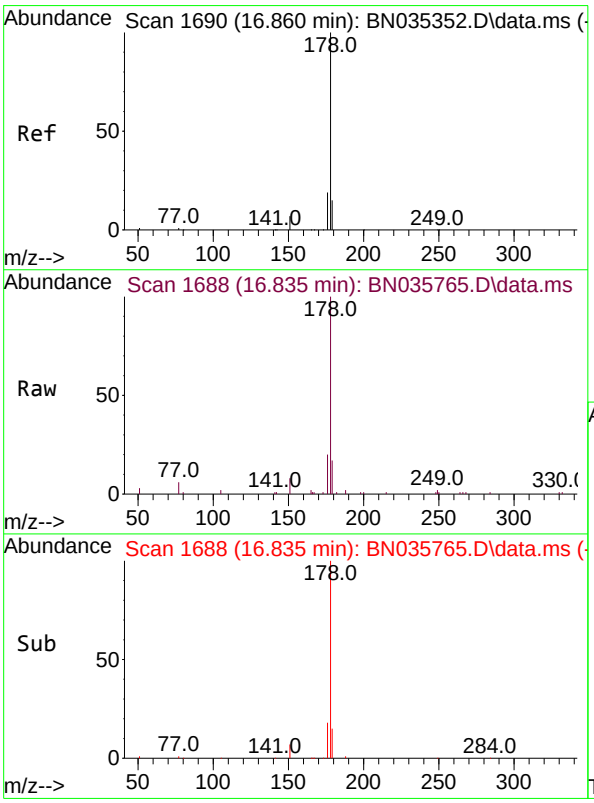
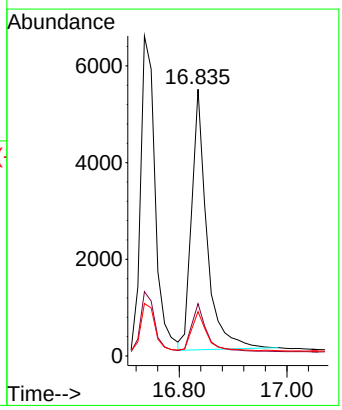
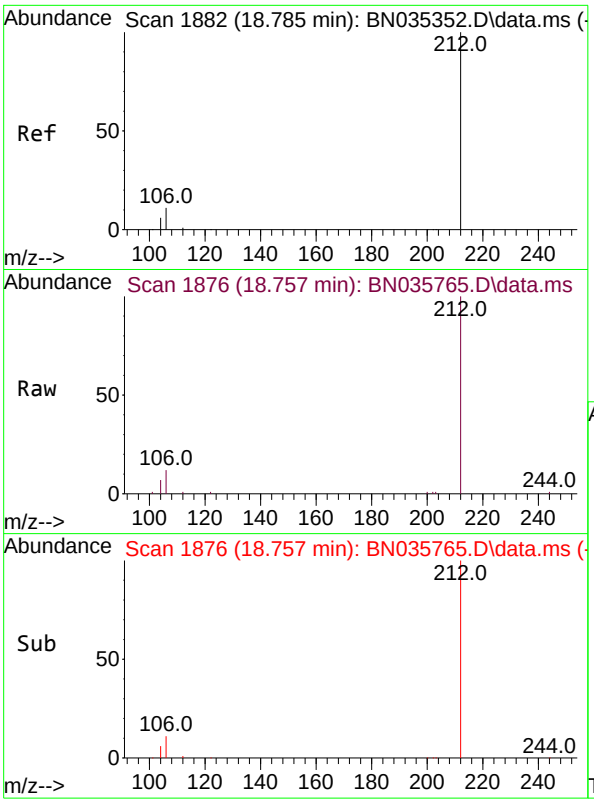


#26
Anthracene
Concen: 0.347 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 10612

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.6	18.8

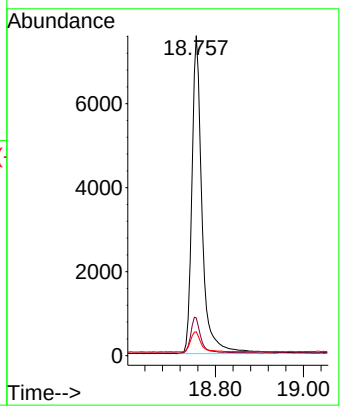




#27
Fluoranthene-d10
Concen: 0.349 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:212 Resp: 1219

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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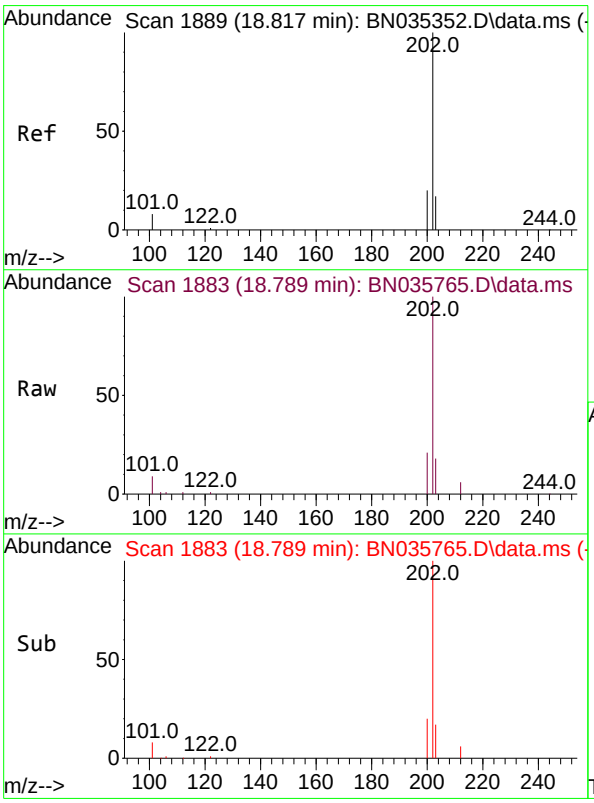
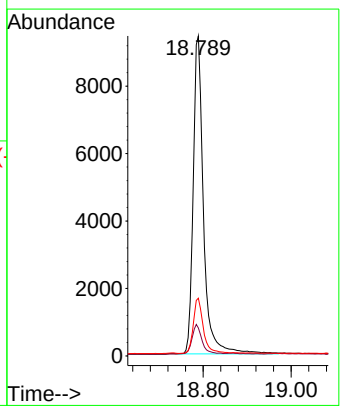
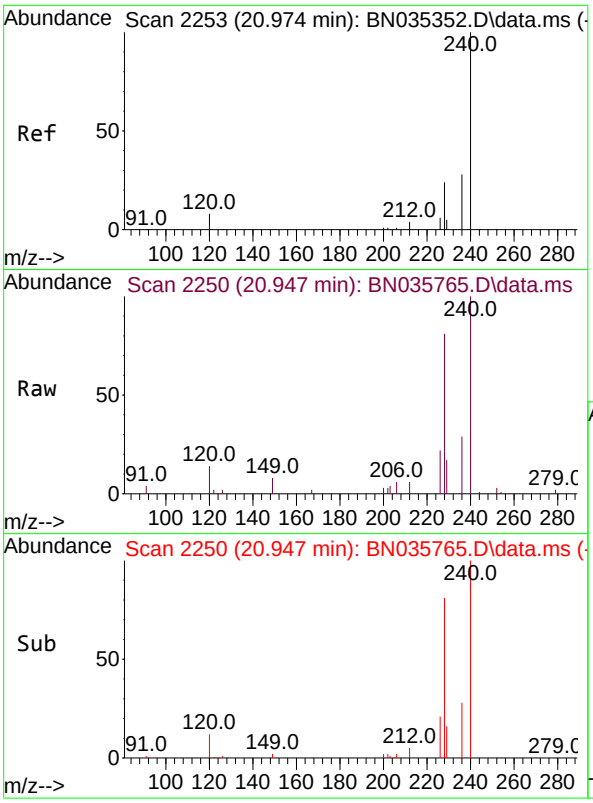


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15375

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5

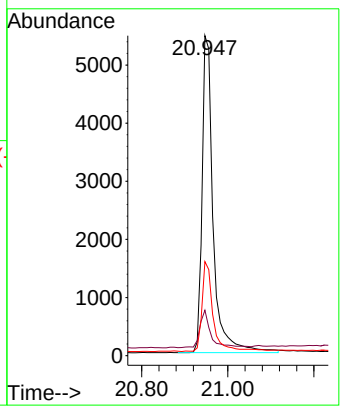




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:240 Resp: 983

Ion	Ratio	Lower	Upper
240	100		
120	14.2	7.9	11.9#
236	29.4	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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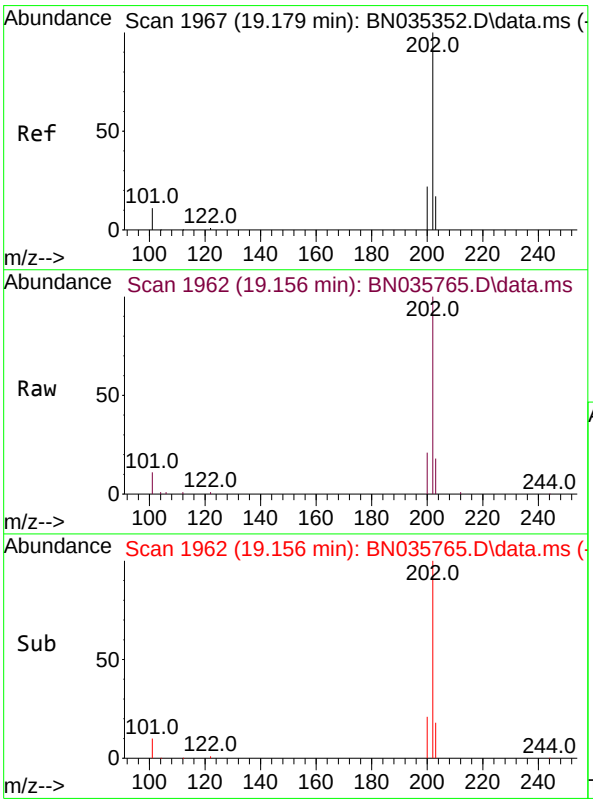
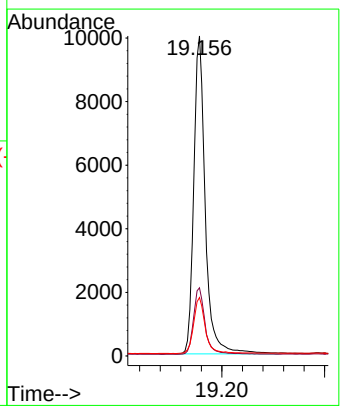
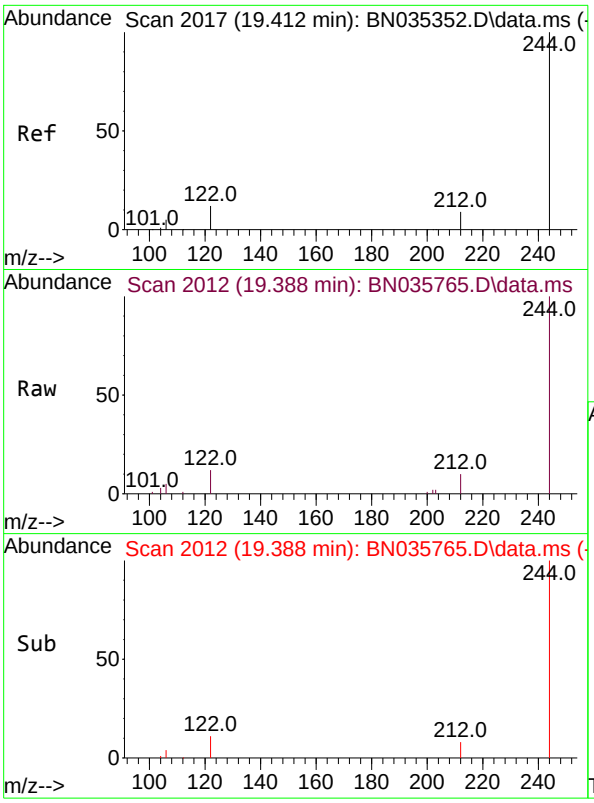


#30
Pyrene
Concen: 0.429 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15587

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

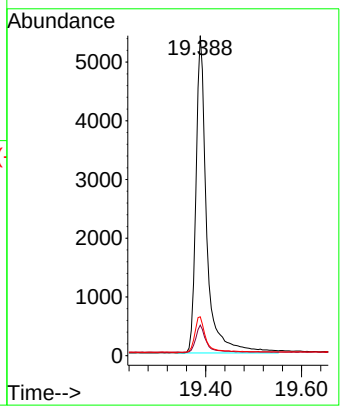




#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:244 Resp: 848

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	12.1	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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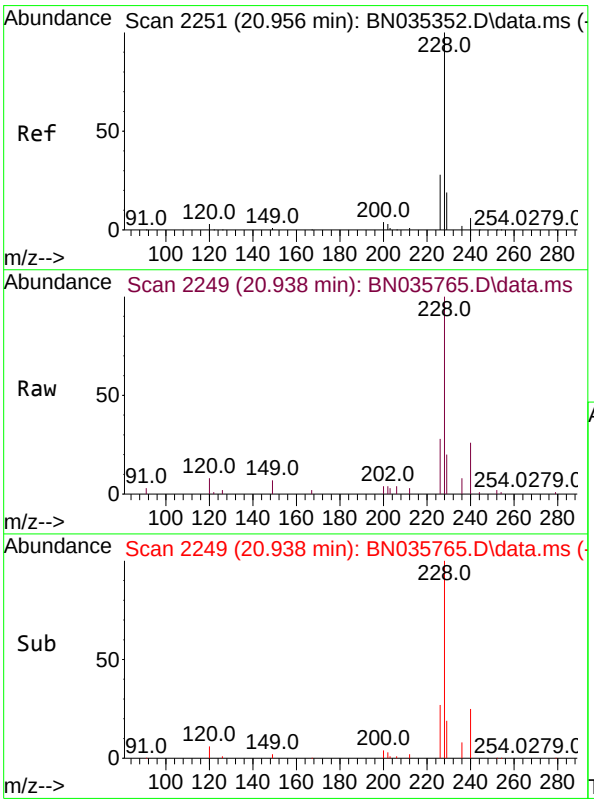
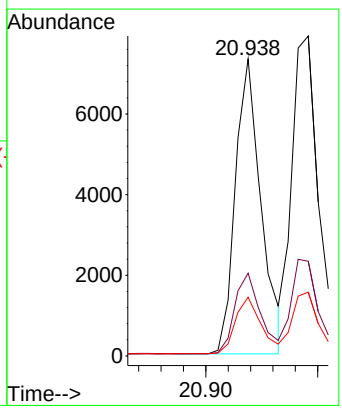
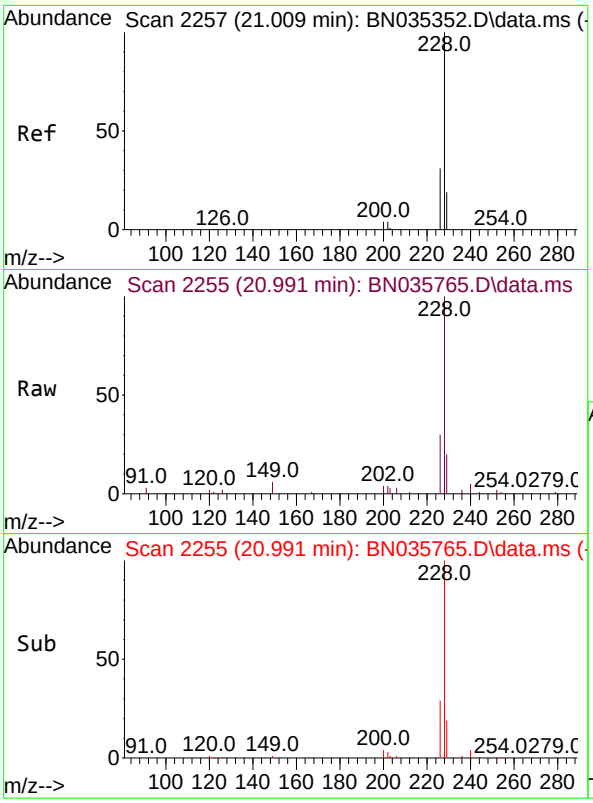


#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:228 Resp: 11659

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.8	15.8	23.8

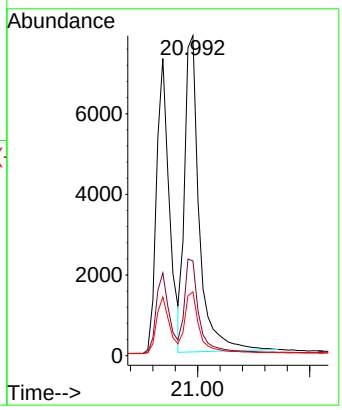




#33
Chrysene
Concen: 0.402 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:228 Resp: 1426

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.6	37.0
229	20.0	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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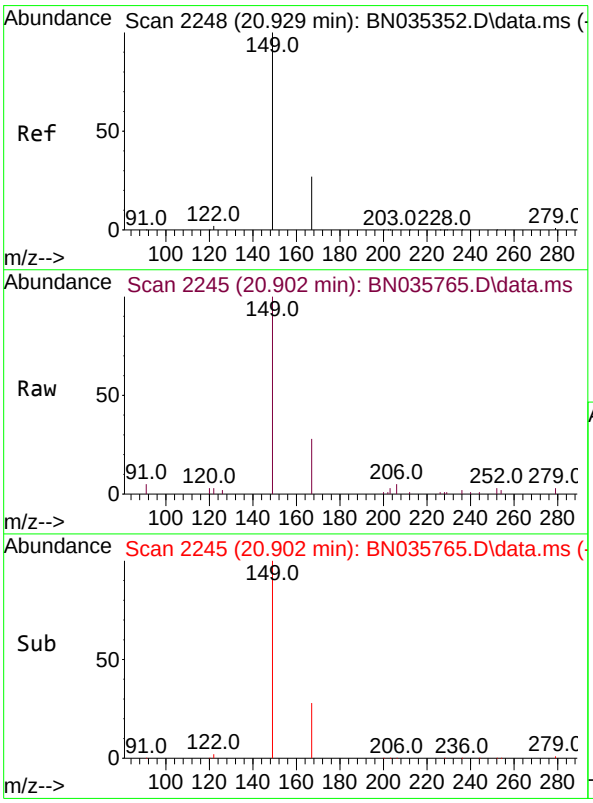
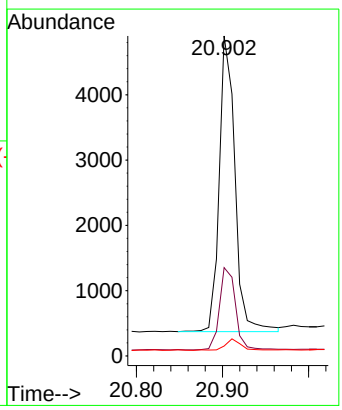
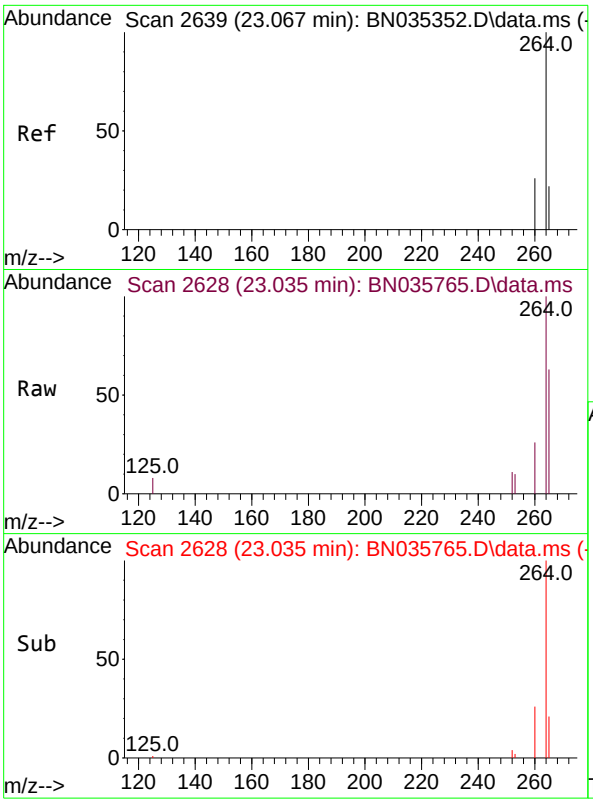


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.419 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:149 Resp: 5697

Ion	Ratio	Lower	Upper
149	100		
167	28.5	22.2	33.4
279	3.9	2.7	4.1

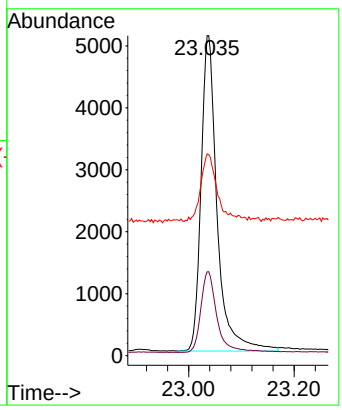




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:264 Resp: 1074

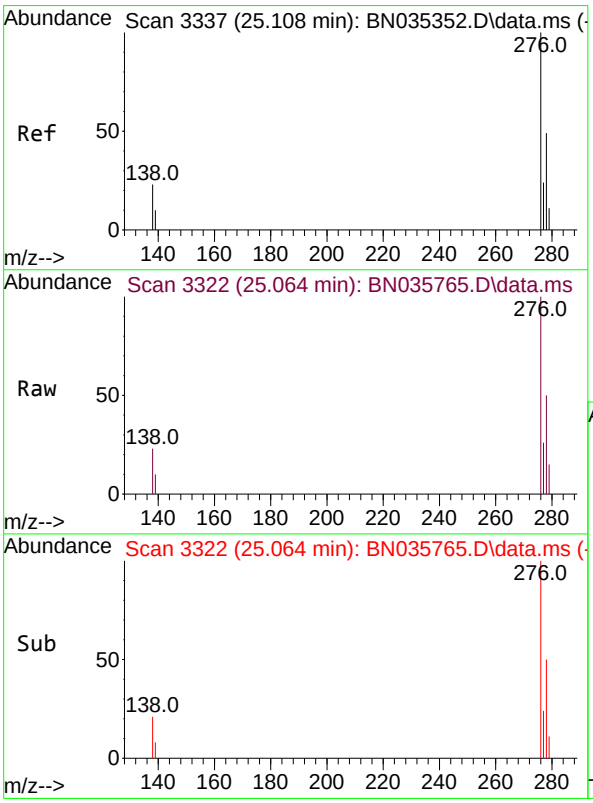
Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	63.0	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

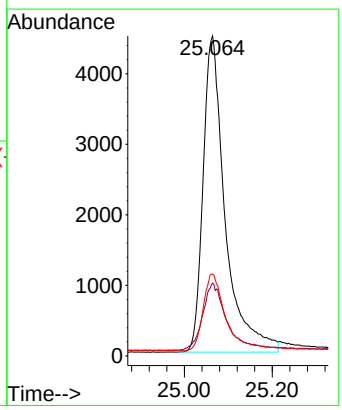
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

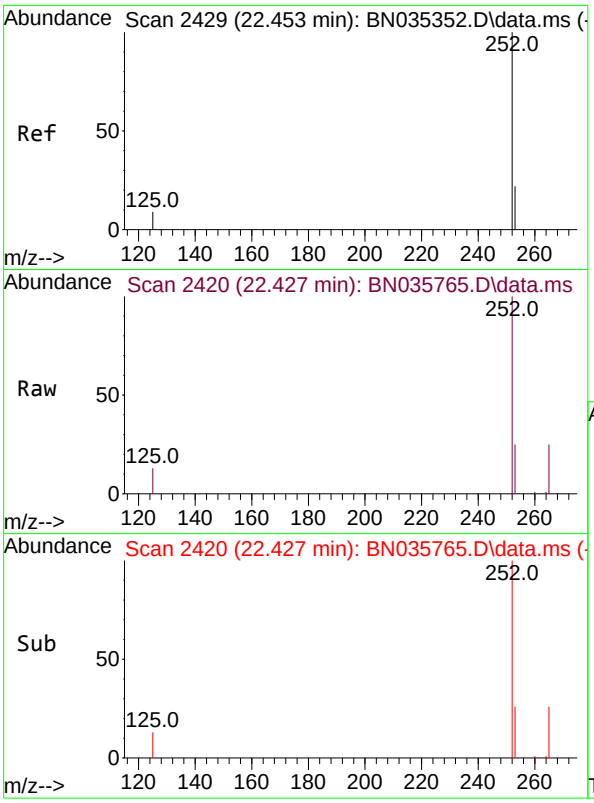


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 15666

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.7	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.484 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

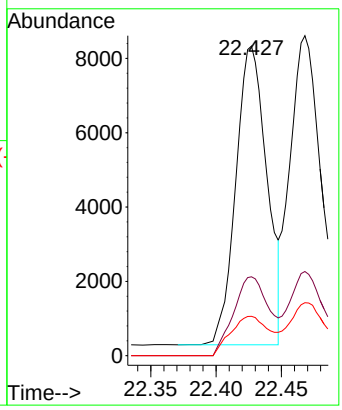
Tgt Ion:252 Resp: 1900

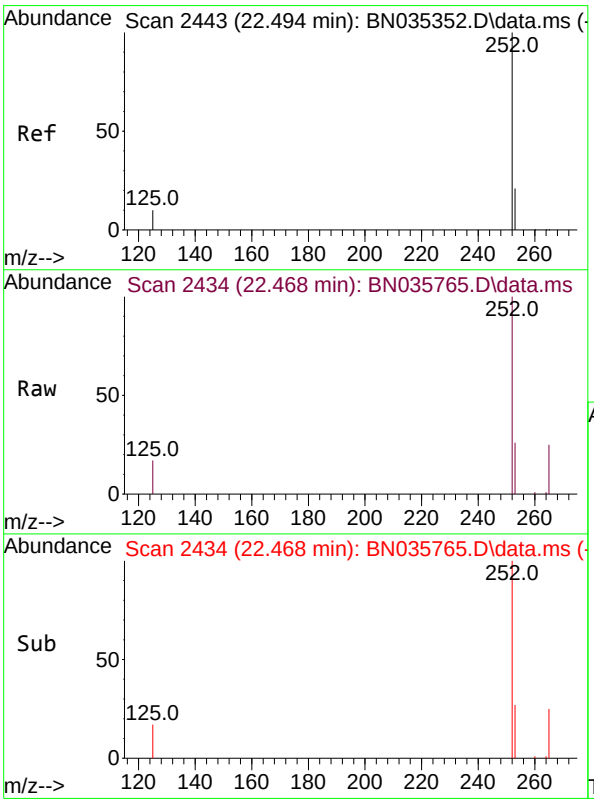
Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.6	29.4
125	12.7	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

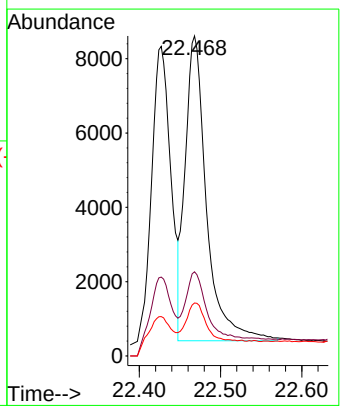


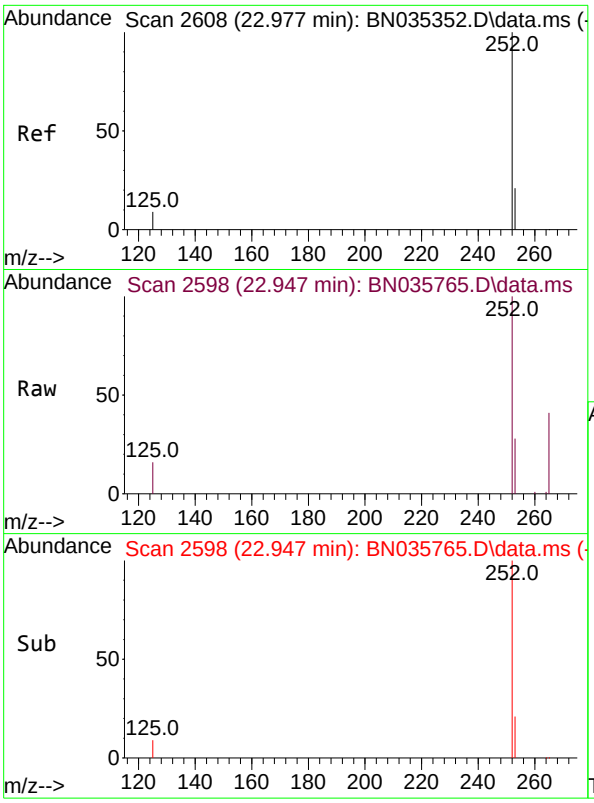


#38
Benzo(k)fluoranthene
Concen: 0.388 ng m
RT: 22.468 min Scan# 2434
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:252 Resp: 15020

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.5	29.3
125	16.6	10.2	15.4#





#39
Benzo(a)pyrene
Concen: 0.363 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

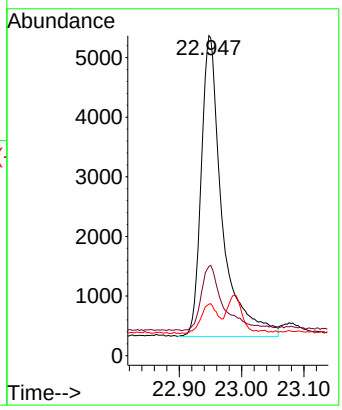
Tgt Ion:252 Resp: 1174

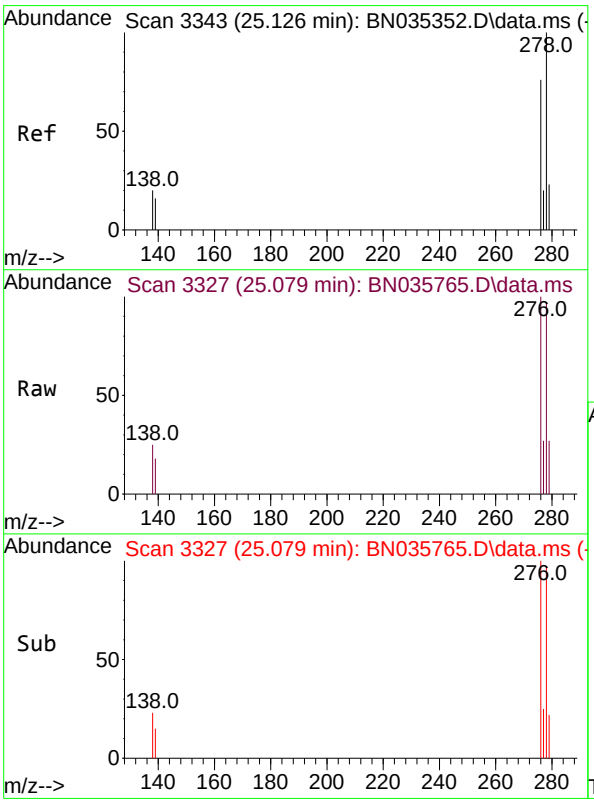
Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	16.1	10.9	16.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

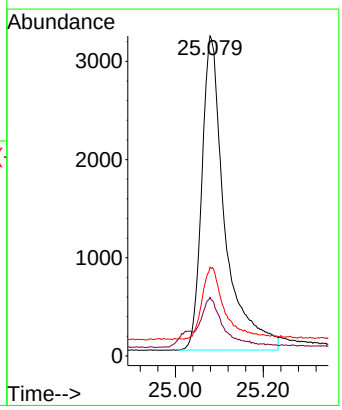


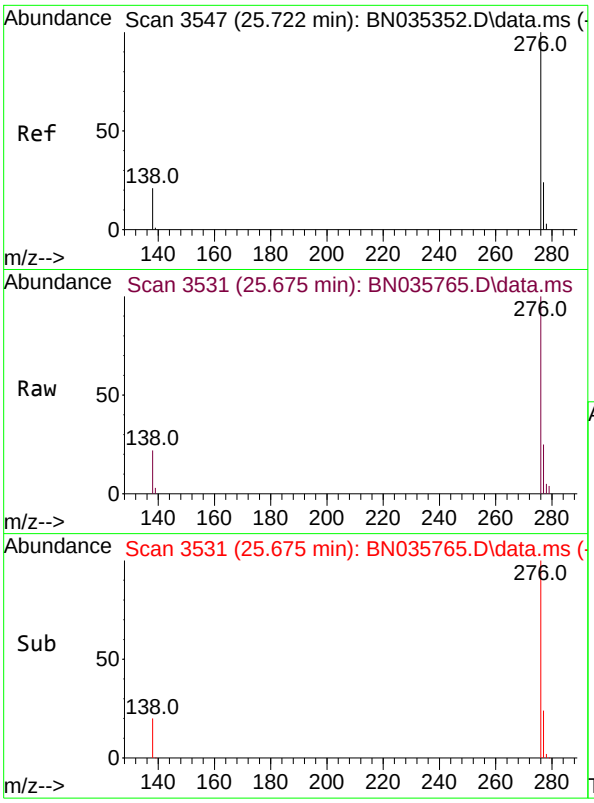


#40
Dibenzo(a,h)anthracene
Concen: 0.352 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:278 Resp: 11661

Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.2	21.4
279	27.7	20.5	30.7

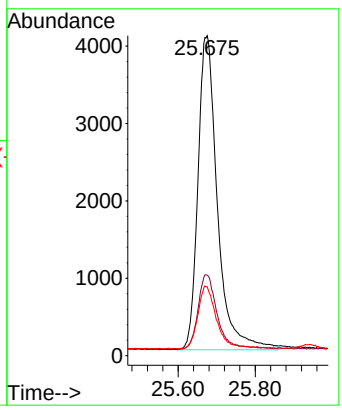




#41
Benzo(g,h,i)perylene
Concen: 0.411 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 1423

Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.9	29.9
138	21.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Sample Results: **BN035765.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 05:39:14 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	173#	0.00
2		1,4-Dioxane	0.382	0.439	-14.9	202#	0.00
3		n-Nitrosodimethylamine	0.319	0.311	2.5	165#	0.00
4	S	2-Fluorophenol	1.001	0.960	4.1	163#	0.00
5	S	Phenol-d6	1.204	1.094	9.1	159#	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.893	11.8	156#	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	174#	-0.01
8	S	Nitrobenzene-d5	0.244	0.284	-16.4	210#	0.00
9		Naphthalene	1.055	0.999	5.3	166#	0.00
10		Hexachlorobutadiene	0.243	0.253	-4.1	178#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.578	7.7	163#	0.00
12		2-Methylnaphthalene	0.755	0.661	12.5	156#	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	153#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.215	24.3	129	0.00
15	S	2-Fluorobiphenyl	1.512	1.389	8.1	141	0.00
16		Acenaphthylene	1.680	1.506	10.4	145	-0.01
17		Acenaphthene	1.115	1.039	6.8	147	-0.01
18		Fluorene	1.596	1.364	14.5	135	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.012	69.2#	42#	0.01
21		4-Bromophenyl-phenylether	0.234	0.205	12.4	118	-0.01
22		Hexachlorobenzene	0.275	0.298	-8.4	142	-0.01
23		Atrazine	0.167	0.154	7.8	130	0.00
24		Pentachlorophenol	0.120	0.096	20.0	130	0.00
25		Phenanthrene	1.099	1.002	8.8	122	-0.01
26		Anthracene	0.994	0.861	13.4	119	0.00
27	SURR	Fluoranthene-d10	1.134	0.989	12.8	119	0.00
28		Fluoranthene	1.481	1.248	15.7	114	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30		Pyrene	1.477	1.585	-7.3	111	0.00
31	S	Terphenyl-d14	0.789	0.863	-9.4	113	0.00
32		Benzo(a)anthracene	1.399	1.185	15.3	90	0.00
33		Chrysene	1.443	1.450	-0.5	104	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.579	-4.7	116	0.00
35	I	Perylene-d12	1.000	1.000	0.0	99	0.00
36		Indeno(1,2,3-cd)pyrene	1.564	1.459	6.7	94	0.00
37		Benzo(b)fluoranthene	1.463	1.769	-20.9	133	0.00
38		Benzo(k)fluoranthene	1.440	1.399	2.8	99	0.00
39	C	Benzo(a)pyrene	1.205	1.093	9.3	95	0.00
40		Dibenzo(a,h)anthracene	1.234	1.086	12.0	90	0.00
41		Benzo(g,h,i)perylene	1.289	1.326	-2.9	105	0.00

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN035765.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 21 05:39:14 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	173	0.00
2		1,4-Dioxane	0.400	0.459	-14.8	202	0.00
3		n-Nitrosodimethylamine	0.400	0.391	2.3	165	0.00
4	S	2-Fluorophenol	0.400	0.384	4.0	163	0.00
5	S	Phenol-d6	0.400	0.364	9.0	159	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.353	11.8	156	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	174	-0.01
8	S	Nitrobenzene-d5	0.400	0.464	-16.0	210	0.00
9		Naphthalene	0.400	0.379	5.3	166	0.00
10		Hexachlorobutadiene	0.400	0.415	-3.7	178	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.369	7.8	163	0.00
12		2-Methylnaphthalene	0.400	0.350	12.5	156	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	153	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.303	24.3	129	0.00
15	S	2-Fluorobiphenyl	0.400	0.367	8.3	141	0.00
16		Acenaphthylene	0.400	0.359	10.3	145	-0.01
17		Acenaphthene	0.400	0.373	6.8	147	-0.01
18		Fluorene	0.400	0.342	14.5	135	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	130	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.117	70.8#	42	0.01
21		4-Bromophenyl-phenylether	0.400	0.351	12.3	118	-0.01
22		Hexachlorobenzene	0.400	0.433	-8.2	142	-0.01
23		Atrazine	0.400	0.369	7.8	130	0.00
24		Pentachlorophenol	0.400	0.320	20.0	130	0.00
25		Phenanthrene	0.400	0.365	8.8	122	-0.01
26		Anthracene	0.400	0.347	13.3	119	0.00
27	SURR	Fluoranthene-d10	0.400	0.349	12.8	119	0.00
28		Fluoranthene	0.400	0.337	15.8	114	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30		Pyrene	0.400	0.429	-7.2	111	0.00
31	S	Terphenyl-d14	0.400	0.437	-9.2	113	0.00
32		Benzo(a)anthracene	0.400	0.339	15.3	90	0.00
33		Chrysene	0.400	0.402	-0.5	104	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.419	-4.7	116	0.00
35	I	Perylene-d12	0.400	0.400	0.0	99	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.373	6.8	94	0.00
37		Benzo(b)fluoranthene	0.400	0.484	-21.0	133	0.00
38		Benzo(k)fluoranthene	0.400	0.388	3.0	99	0.00
39	C	Benzo(a)pyrene	0.400	0.363	9.3	95	0.00
40		Dibenzo(a,h)anthracene	0.400	0.352	12.0	90	0.00
41		Benzo(g,h,i)perylene	0.400	0.411	-2.7	105	0.00

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 10:22

Lab File ID: BN035776.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	0.601		-4.0	20.0
Fluoranthene-d10	1.134	1.037		-8.6	20.0
2-Fluorophenol	1.001	1.009		0.7	20.0
Phenol-d6	1.204	1.111		-7.7	20.0
Nitrobenzene-d5	0.244	0.284		16.4	20.0
2-Fluorobiphenyl	1.512	1.601		5.9	20.0
2,4,6-Tribromophenol	0.284	0.205		-27.8	20.0
Terphenyl-d14	0.789	0.943		19.5	20.0
1,4-Dioxane	0.382	0.429		12.3	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	3884	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng		0.00
35) Perylene-d12	23.026	264	8918	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.931	112	3917	0.403	ng		0.00
5) Phenol-d6	6.477	99	4314	0.369	ng		-0.01
8) Nitrobenzene-d5	8.397	82	2872m	0.466	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng		-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng		0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1665	0.448	ng		99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	#	88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng		98
9) Naphthalene	10.052	128	10927	0.410	ng		99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng		98
16) Acenaphthylene	13.636	152	9517	0.385	ng		99
17) Acenaphthene	13.989	154	6826	0.415	ng		97
18) Fluorene	14.993	166	8480	0.361	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	#	94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng		95
23) Atrazine	16.202	200	1724	0.359	ng		95
24) Pentachlorophenol	16.363	266	1350	0.391	ng		89
25) Phenanthrene	16.735	178	12569	0.396	ng		100
26) Anthracene	16.835	178	10686	0.372	ng		99
28) Fluoranthene	18.780	202	15101	0.353	ng		99
30) Pyrene	19.147	202	15291	0.472	ng		99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng		99
33) Chrysene	20.982	228	14126	0.447	ng		100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng		98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng		96
38) Benzo(k)fluoranthene	22.459	252	14978m	0.466	ng		
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	#	91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng		99

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

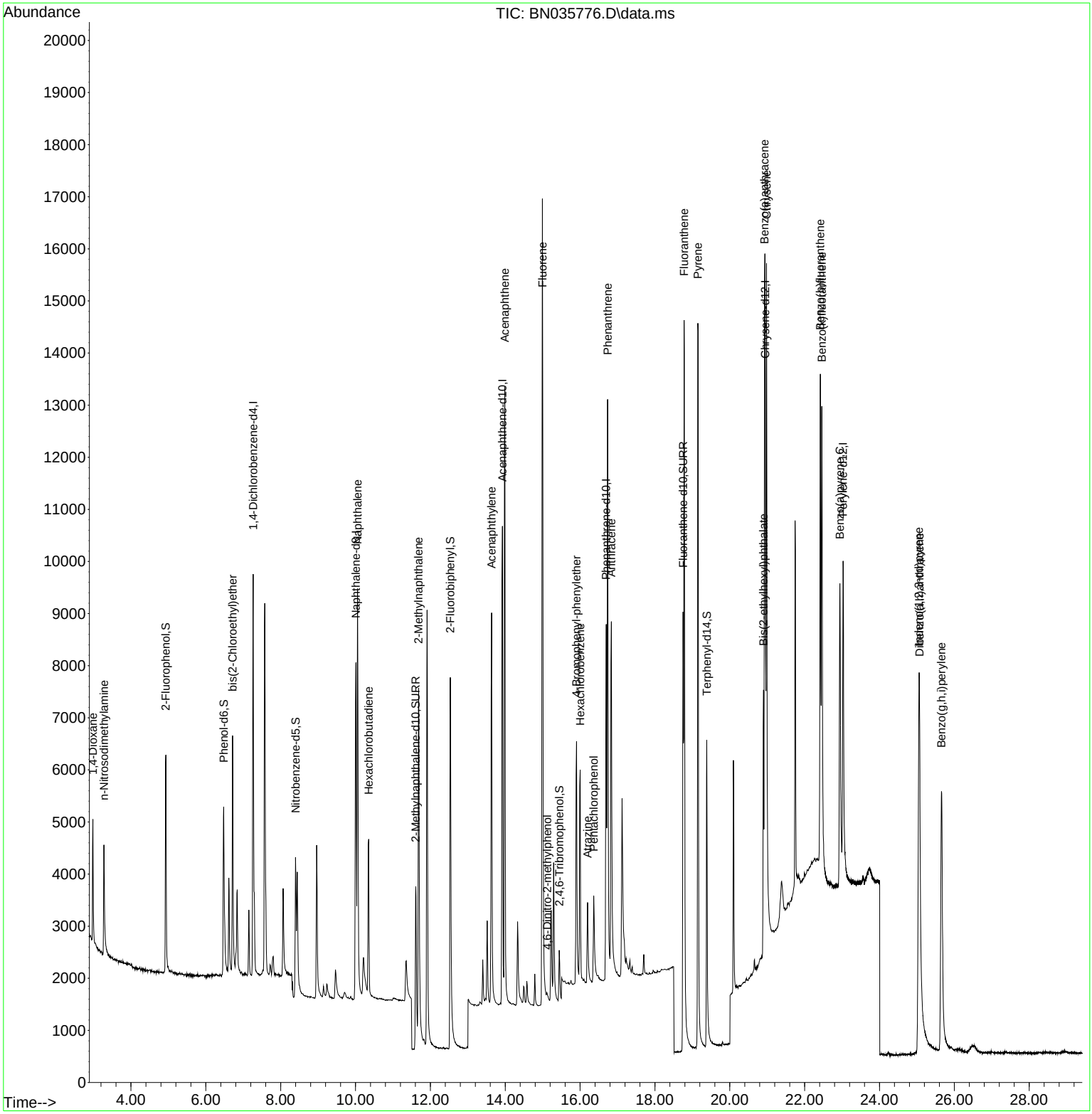
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

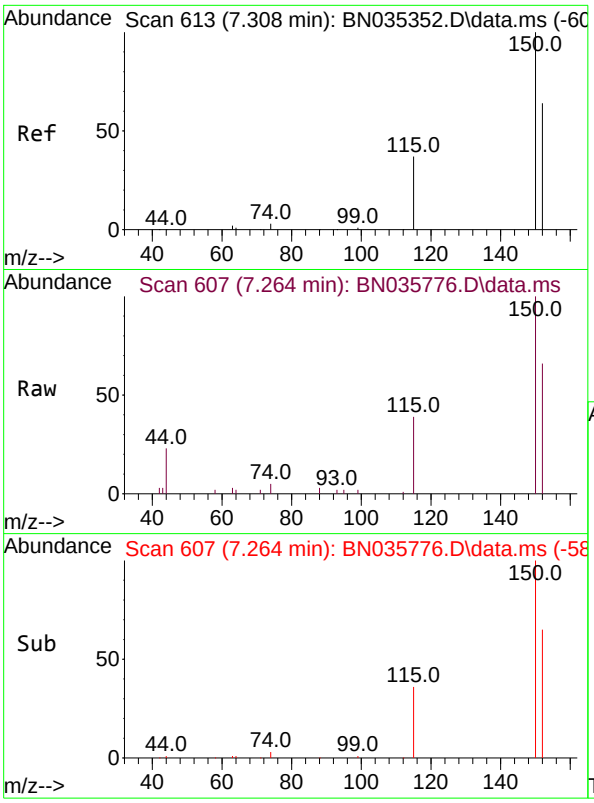
Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

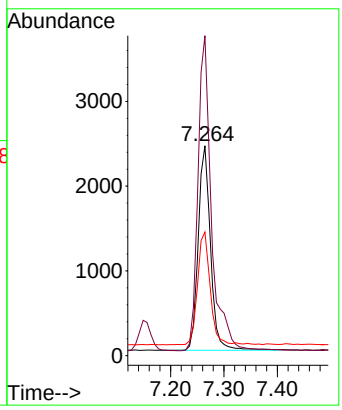




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 388

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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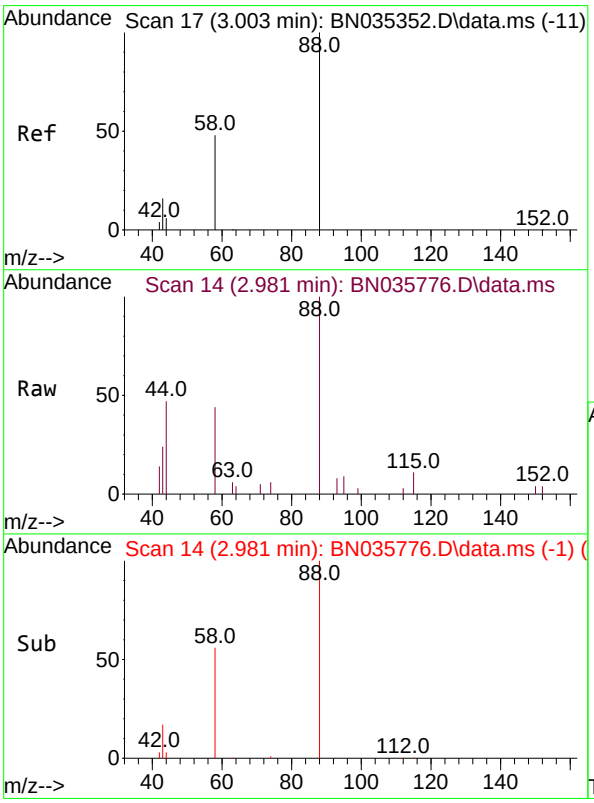
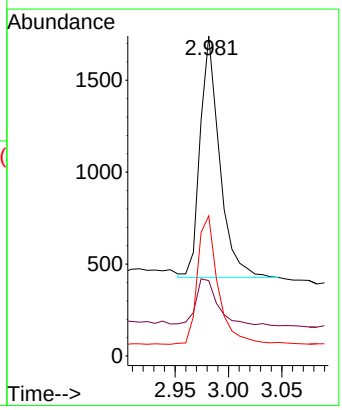
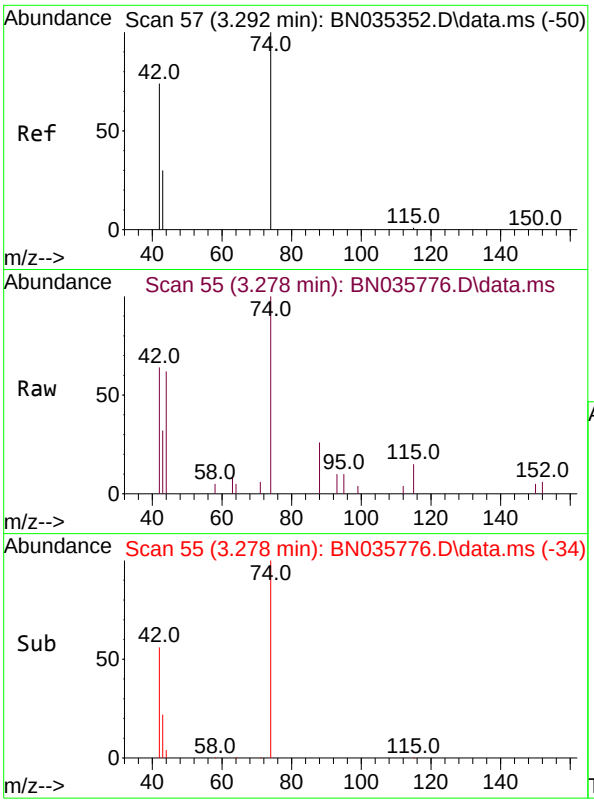


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665

Ion	Ratio	Lower	Upper
88	100		
43	22.6	17.2	25.8
58	55.9	44.5	66.7

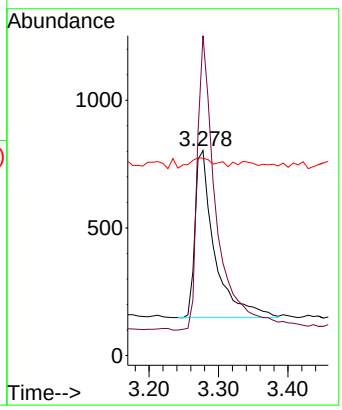




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 42 Resp: 127

Ion	Ratio	Lower	Upper
42	100		
74	172.3	124.9	187.3
44	6.3	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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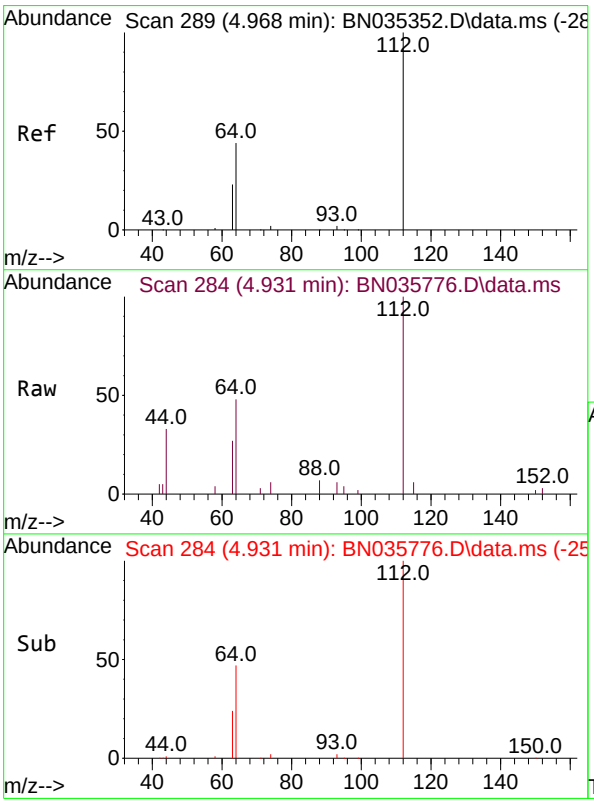
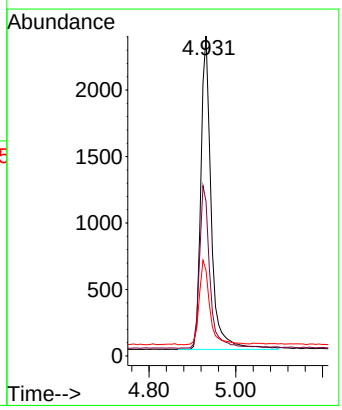
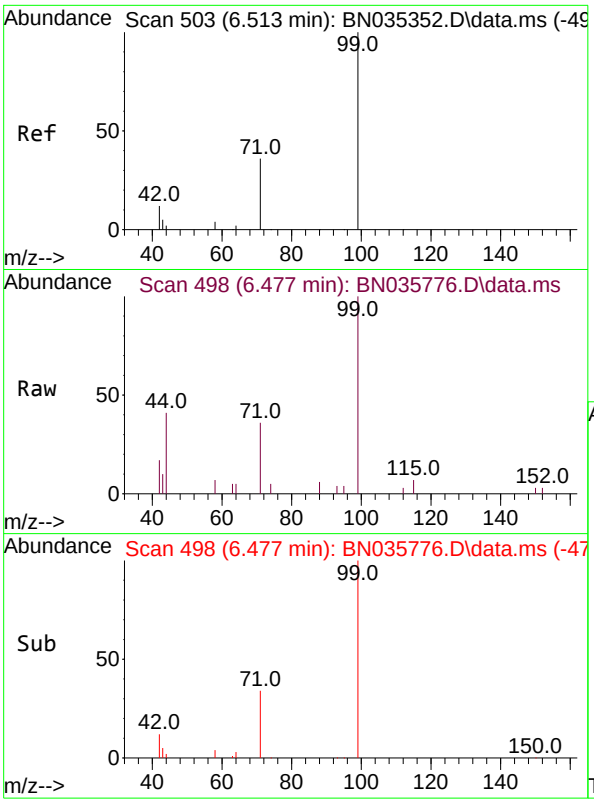


#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:112 Resp: 3917

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	27.2	21.0	31.6





#5
Phenol-d6
Concen: 0.369 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 99 Resp: 431

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	33.7	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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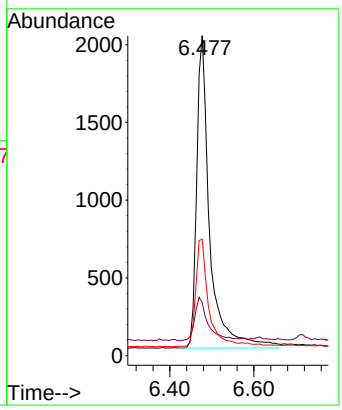
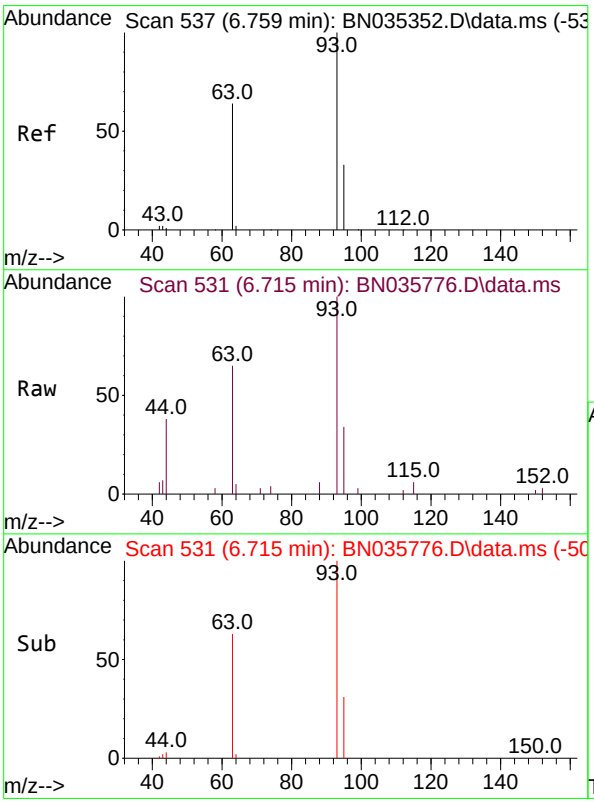
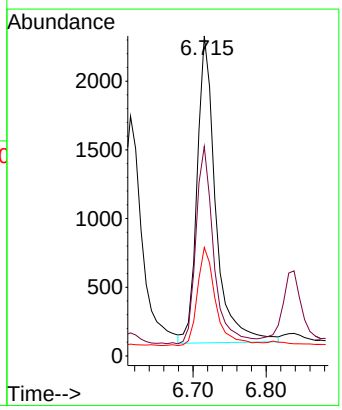


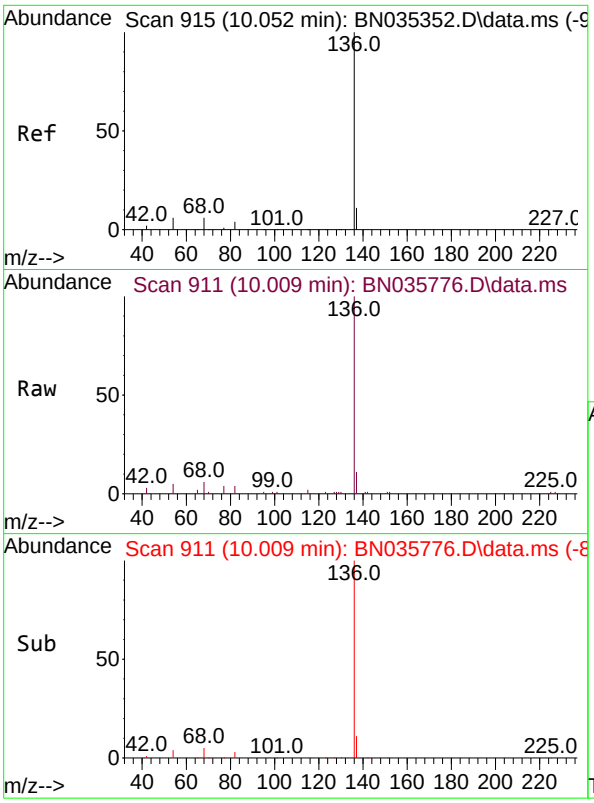


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 93 Resp: 3946

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	31.7	25.7	38.5

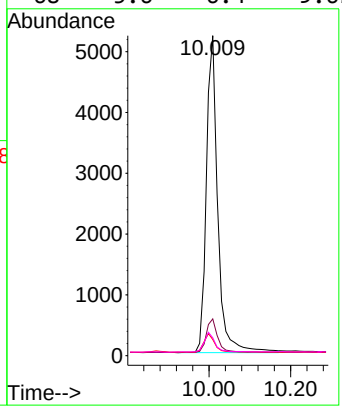




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:136 Resp: 1009

Ion	Ratio	Lower	Upper
136	100		
137	11.5	10.2	15.2
54	5.0	6.1	9.1#
68	5.6	6.4	9.6#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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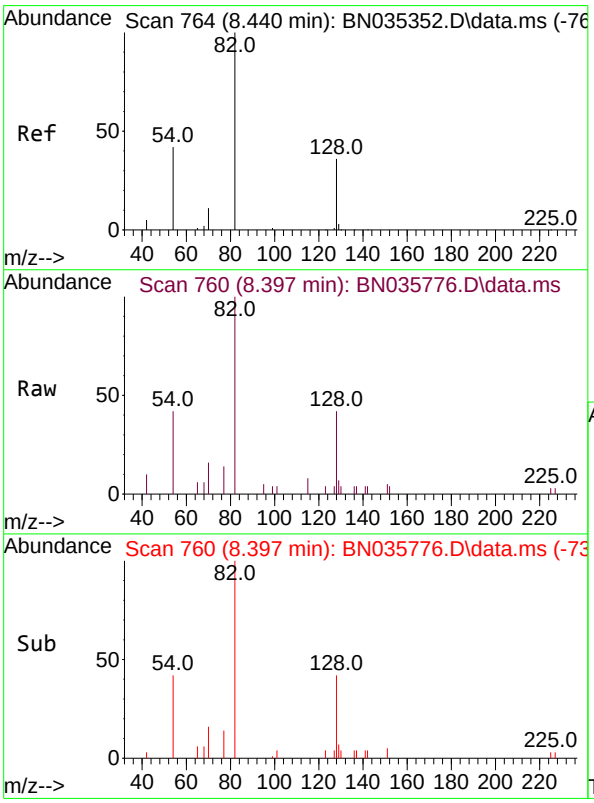
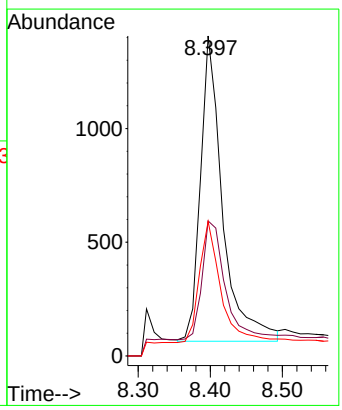
Supervised By :mohammad ahmed 12/26/2024

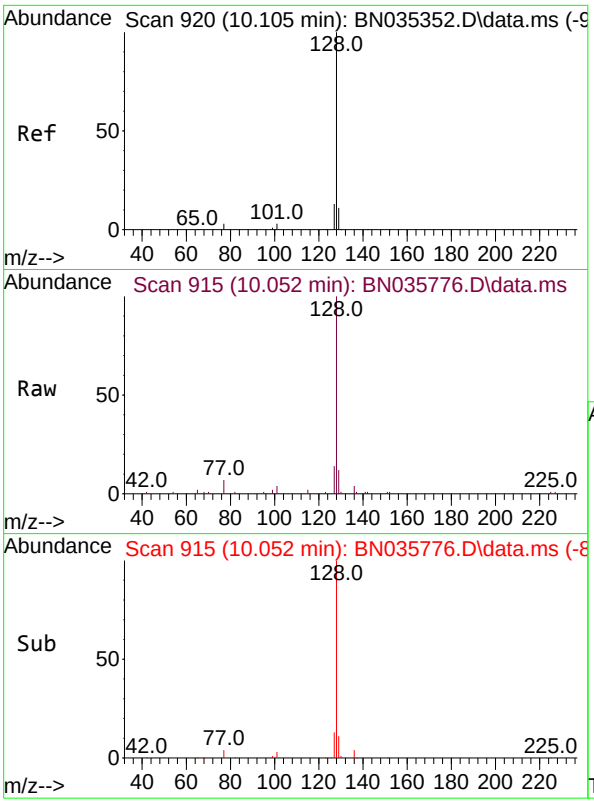


#8
Nitrobenzene-d5
Concen: 0.466 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 82 Resp: 2872

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	42.1	36.7	55.1





#9
Naphthalene
Concen: 0.410 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:128 Resp: 1092

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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Reviewed By :Yogesh Patel 12/24/2024
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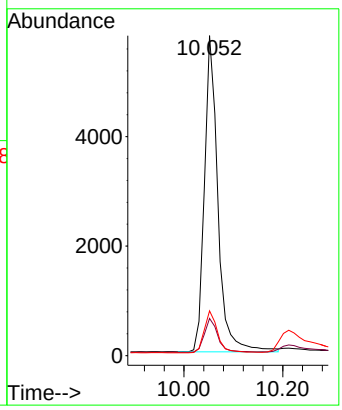
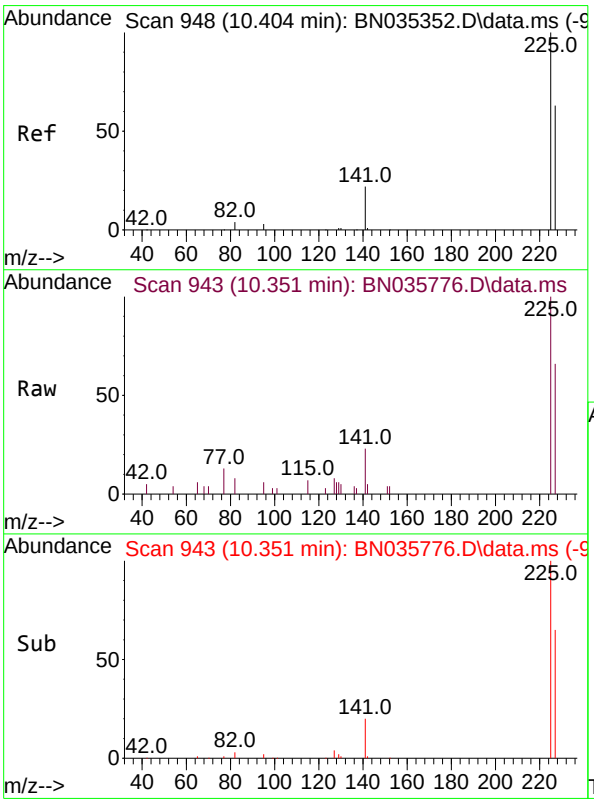
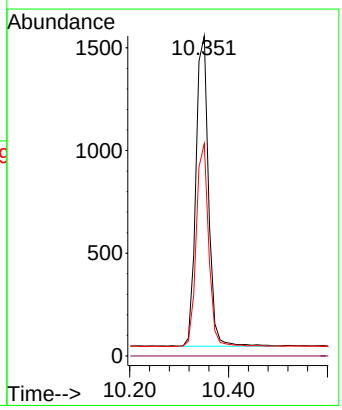


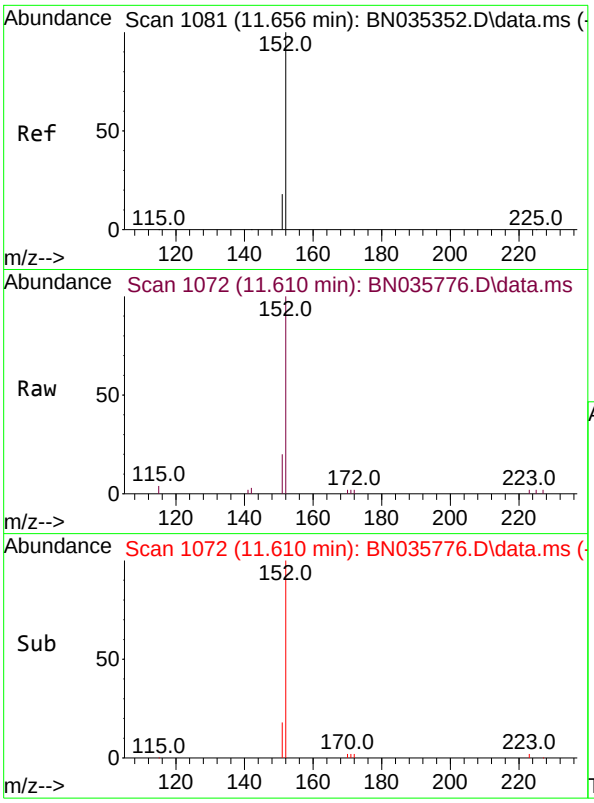


#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:225 Resp: 2685

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





#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 607

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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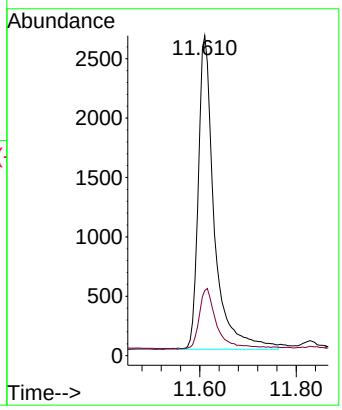
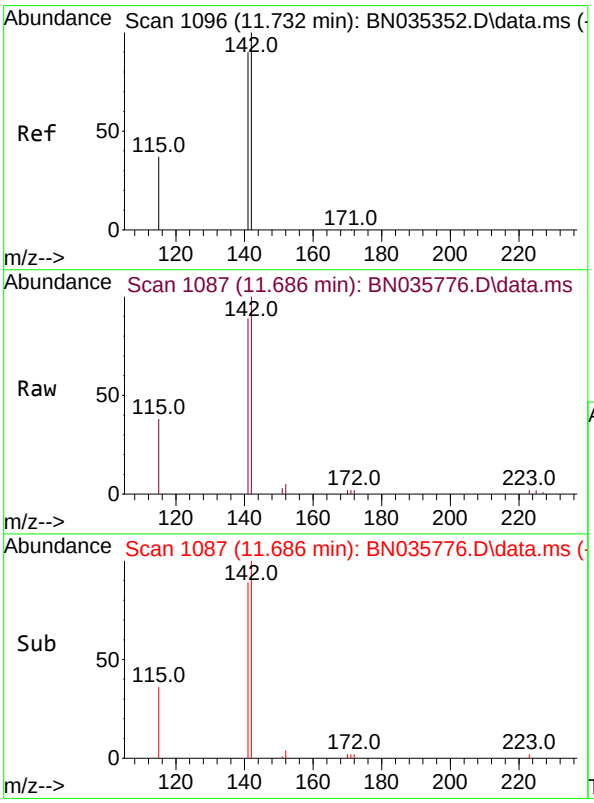
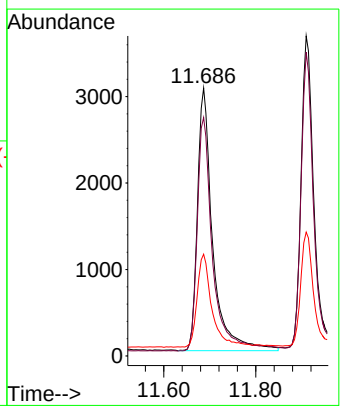


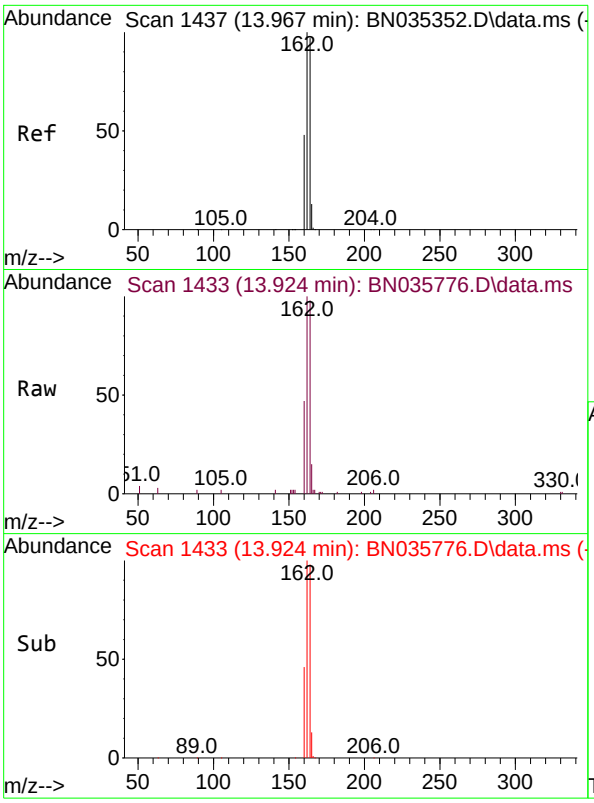


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:142 Resp: 6976

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	38.0	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: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:164 Resp: 589

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	47.7	40.1	60.1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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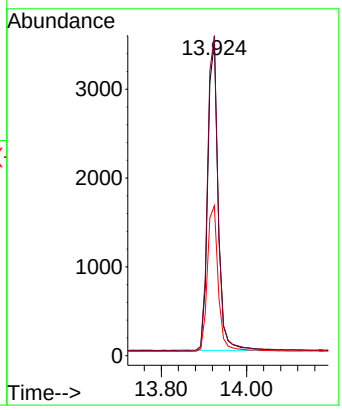
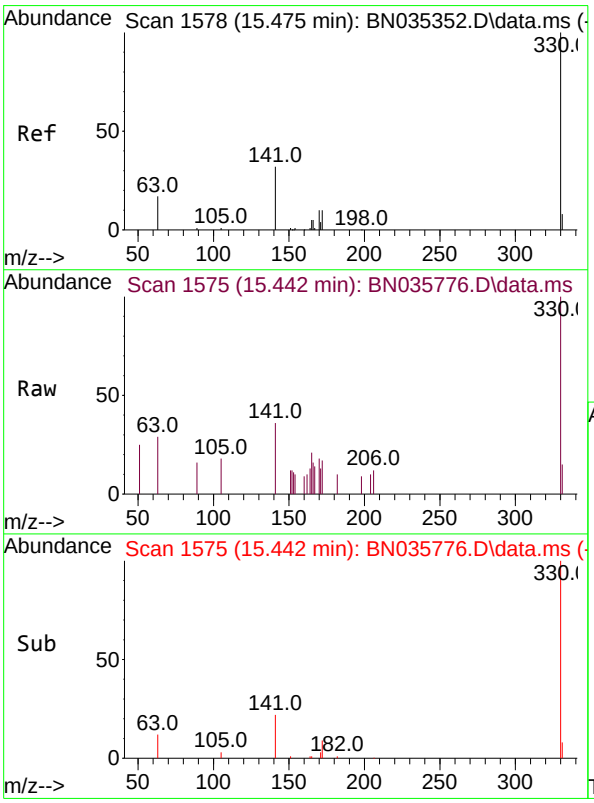
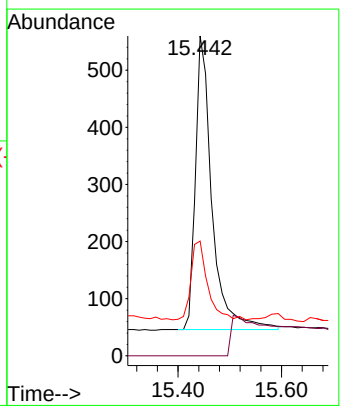


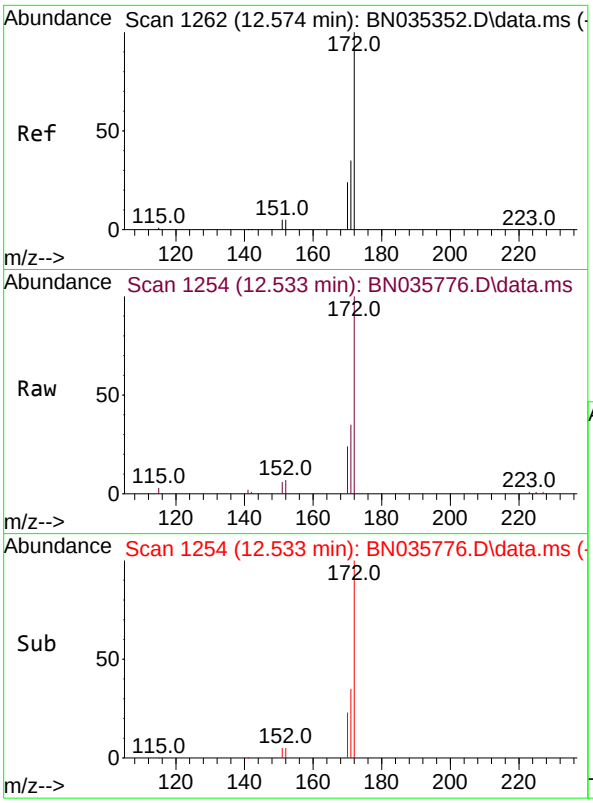


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:330 Resp: 1206

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.3	26.6	40.0#

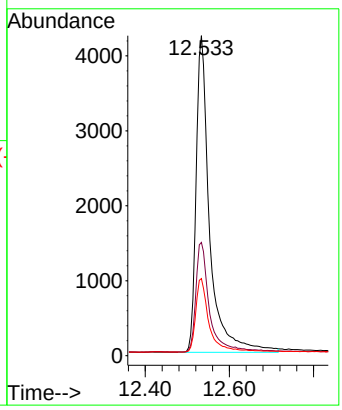




#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:172 Resp: 943

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	24.1	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
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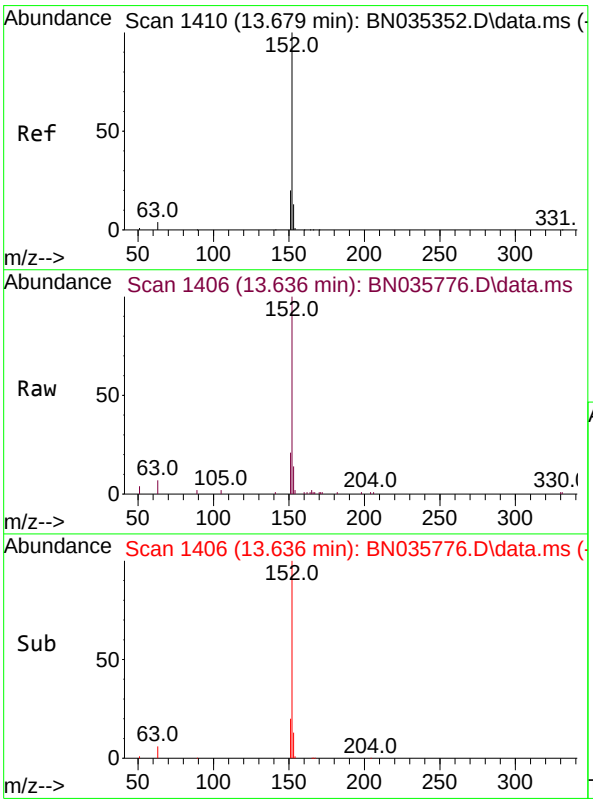
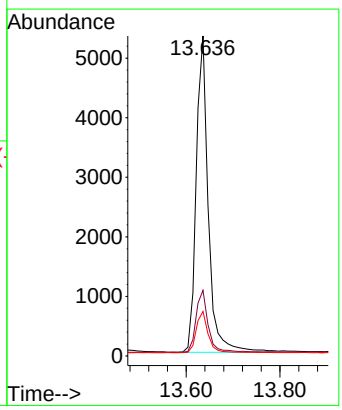
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

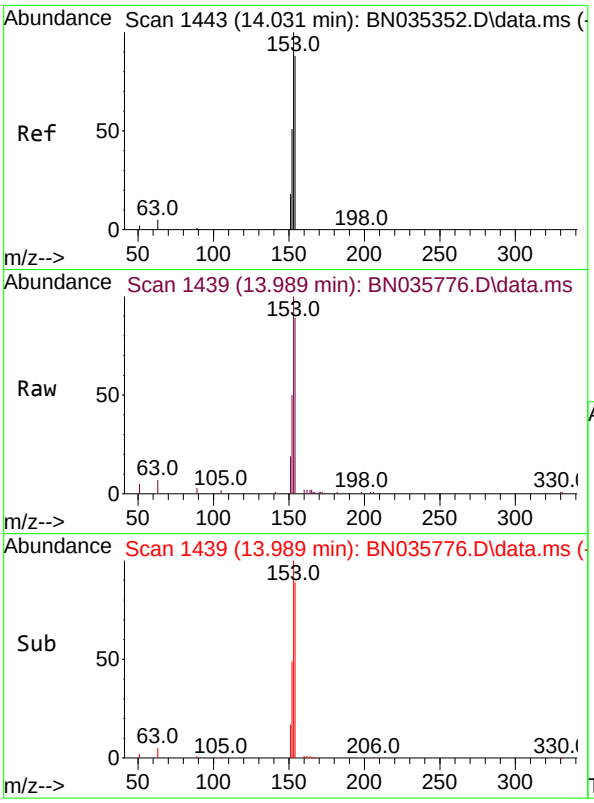


#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 9517

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6

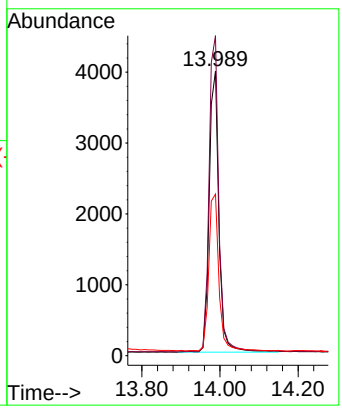




#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:154 Resp: 682(

Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.6	139.0
152	58.5	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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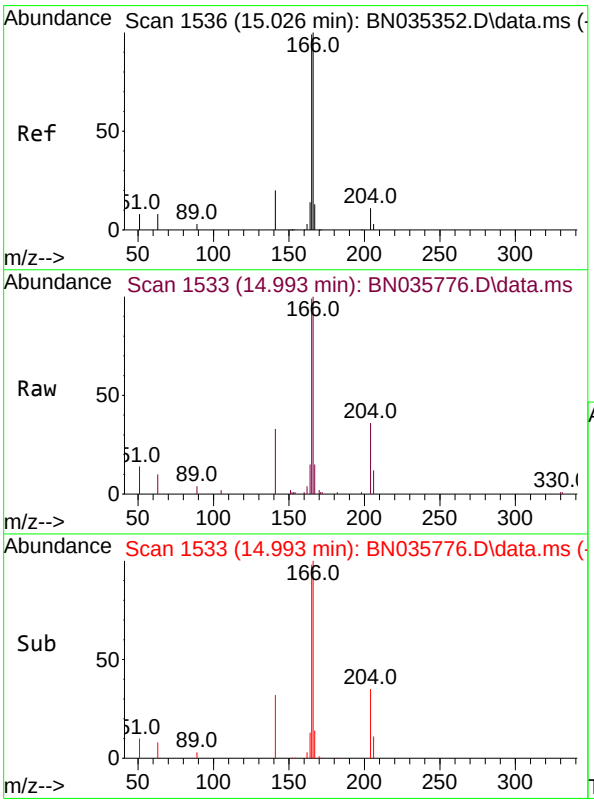
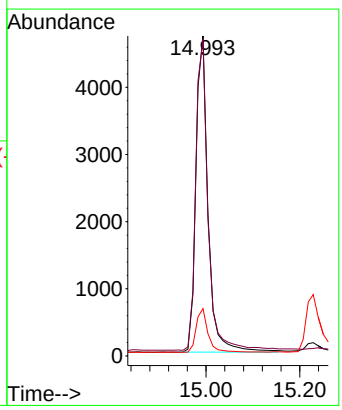
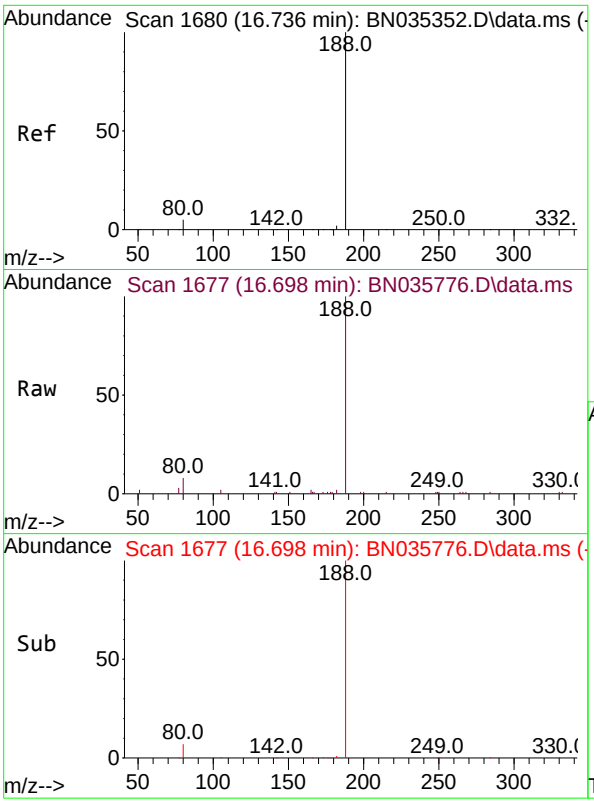


#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2

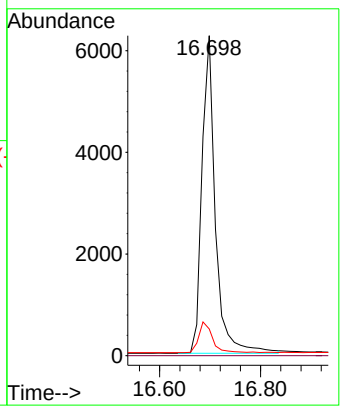




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:188 Resp: 1154

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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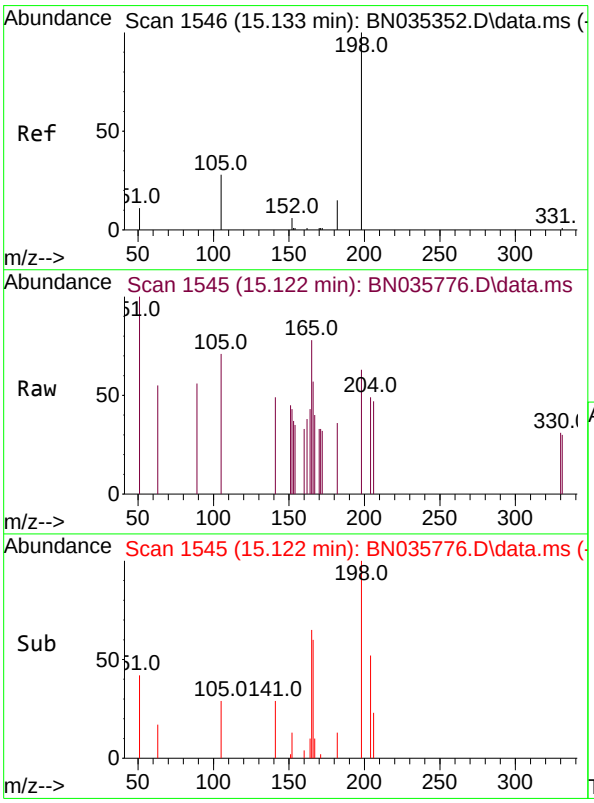
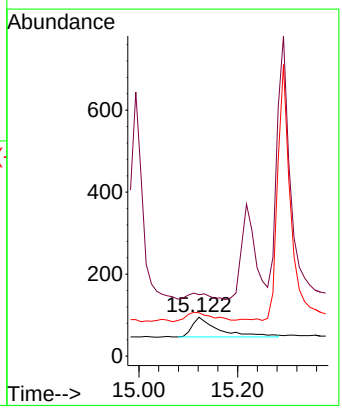
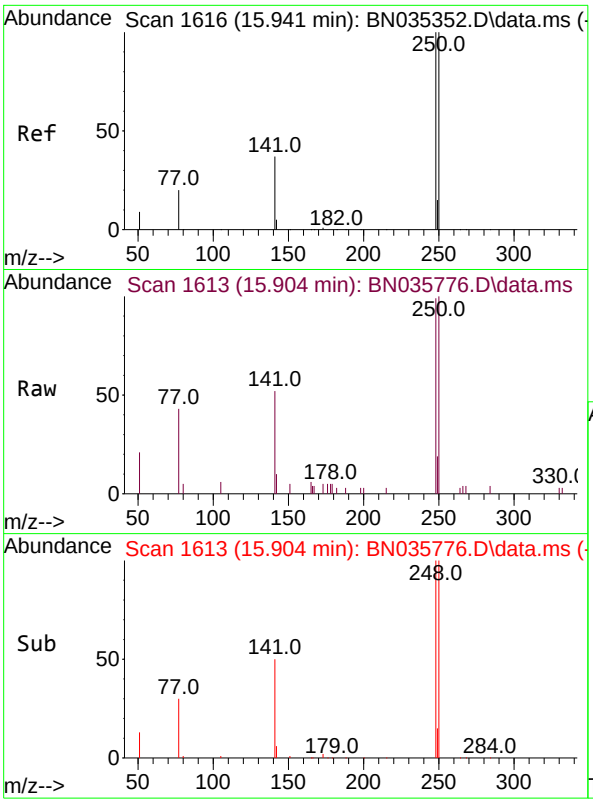


#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178

Ion	Ratio	Lower	Upper
198	100		
51	157.9	46.5	69.7#
105	111.6	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:248 Resp: 268

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	52.5	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
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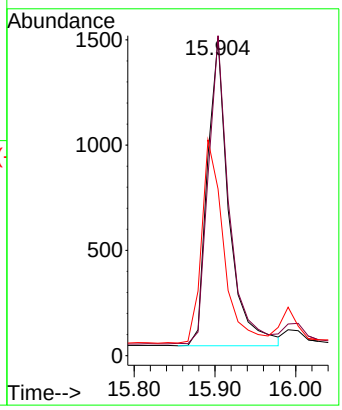
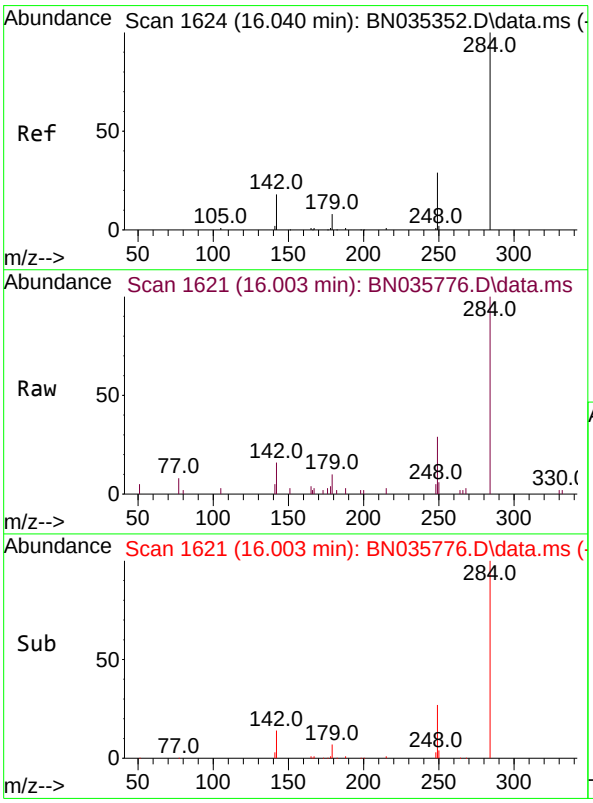
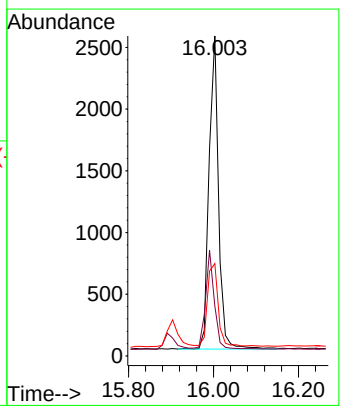


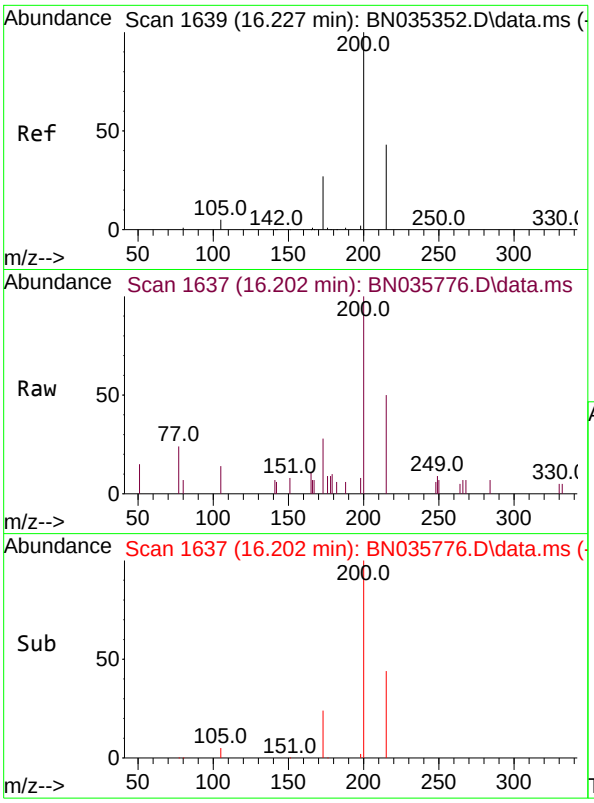


#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:284 Resp: 3943

Ion	Ratio	Lower	Upper
284	100		
142	29.0	26.7	40.1
249	29.3	24.6	36.8

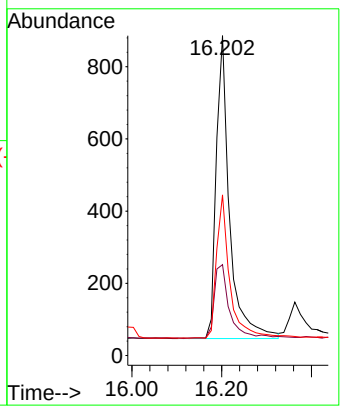




#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:200 Resp: 172

Ion	Ratio	Lower	Upper
200	100		
173	28.4	24.1	36.1
215	50.2	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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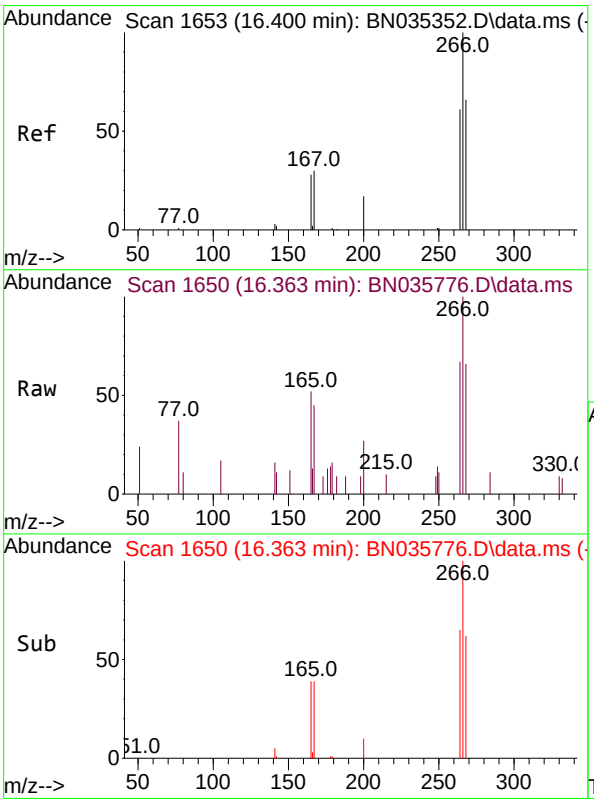
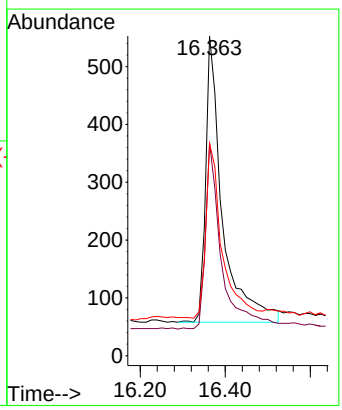
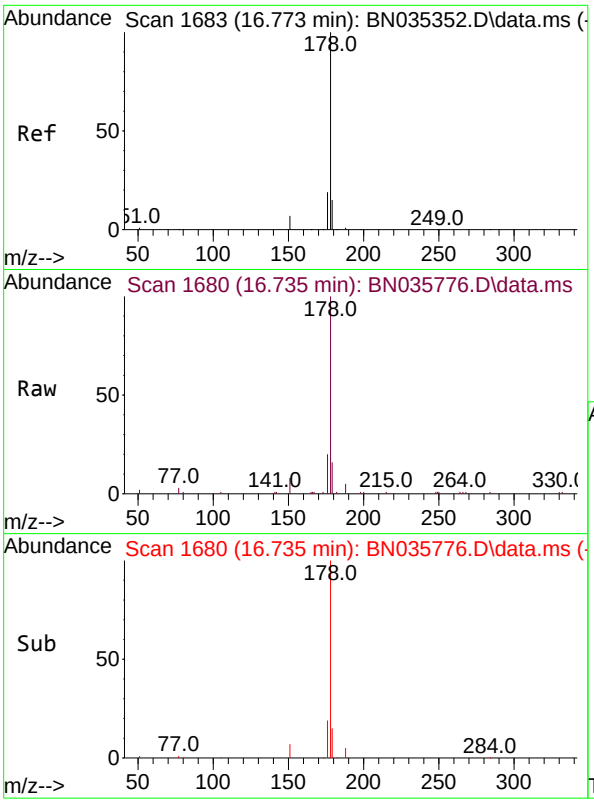


#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	59.1	43.3	64.9

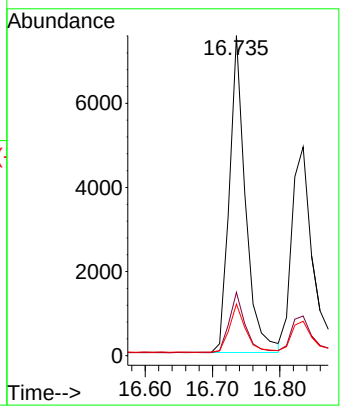




#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 1256(

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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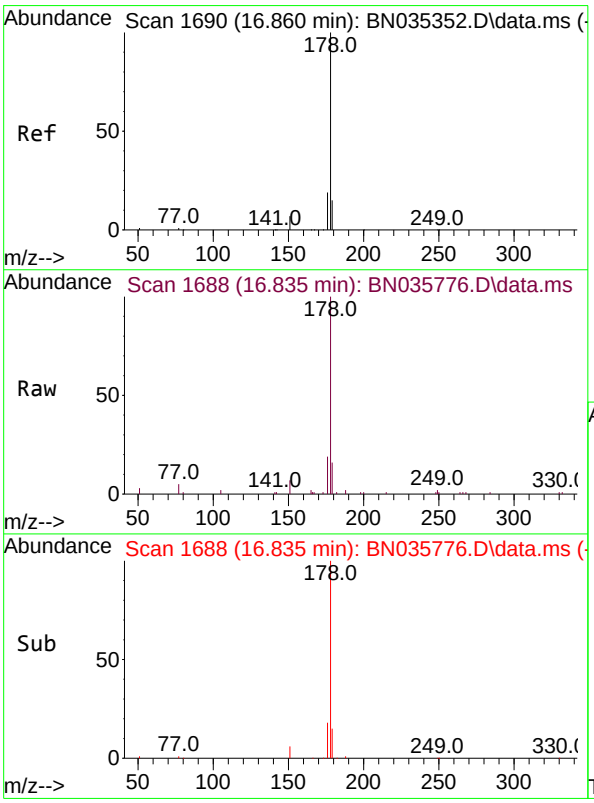
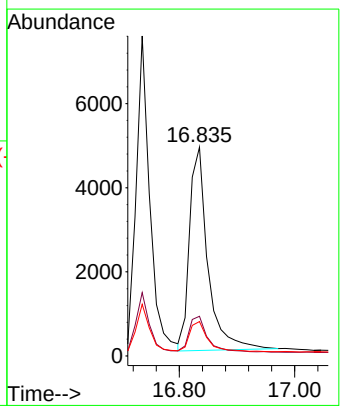
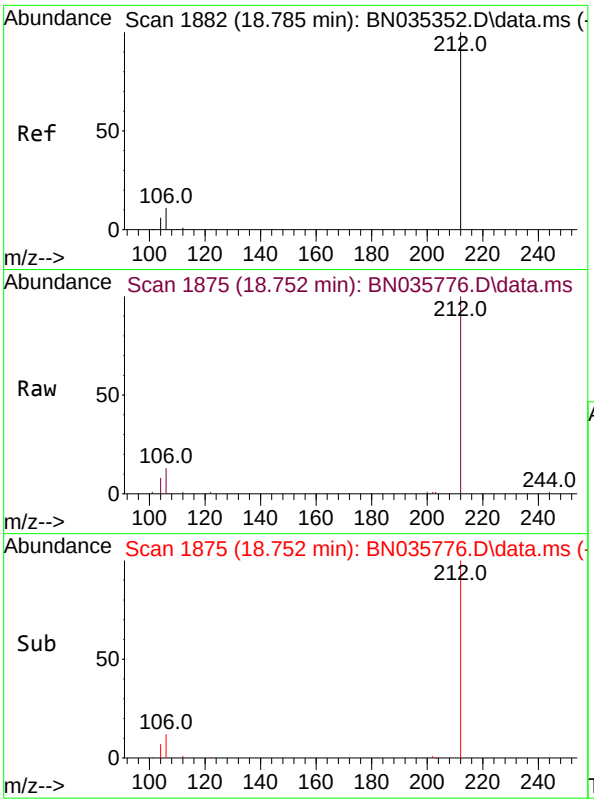


#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 10686

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8

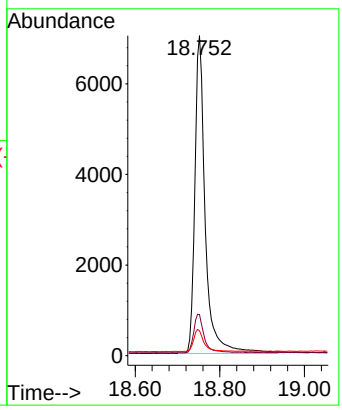




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:212 Resp: 1197

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.9	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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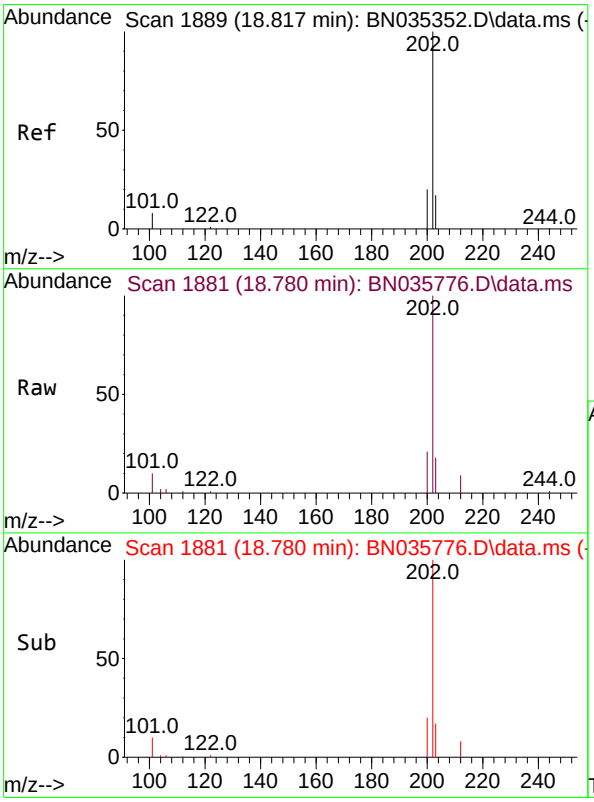
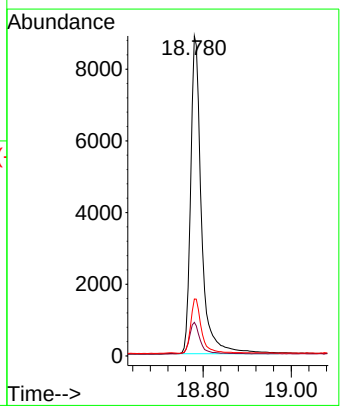
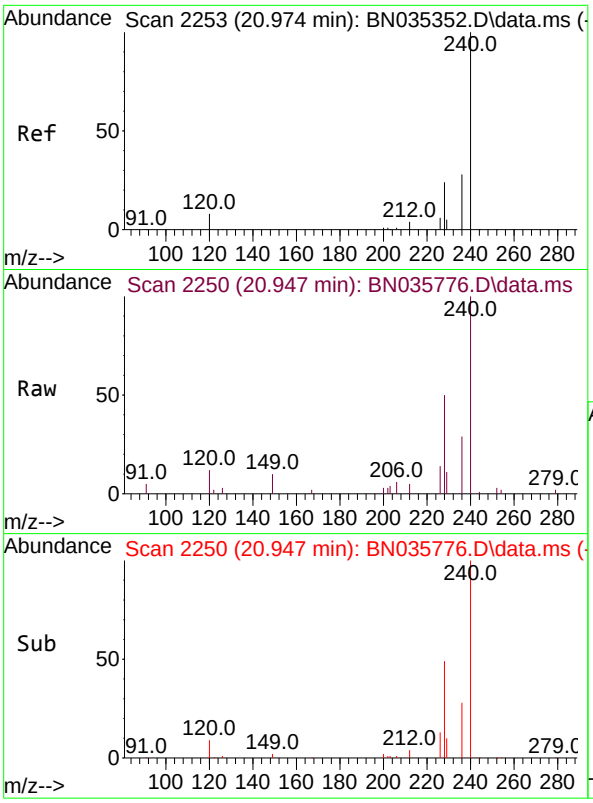


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15101

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.4	11.0
203	17.2	13.7	20.5

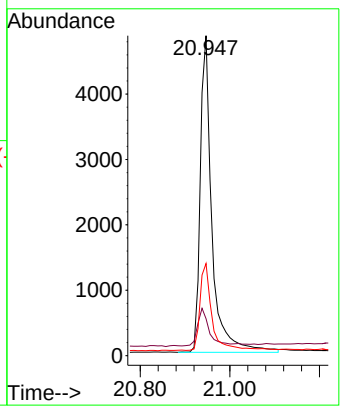




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:240 Resp: 877

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.9	11.9
236	28.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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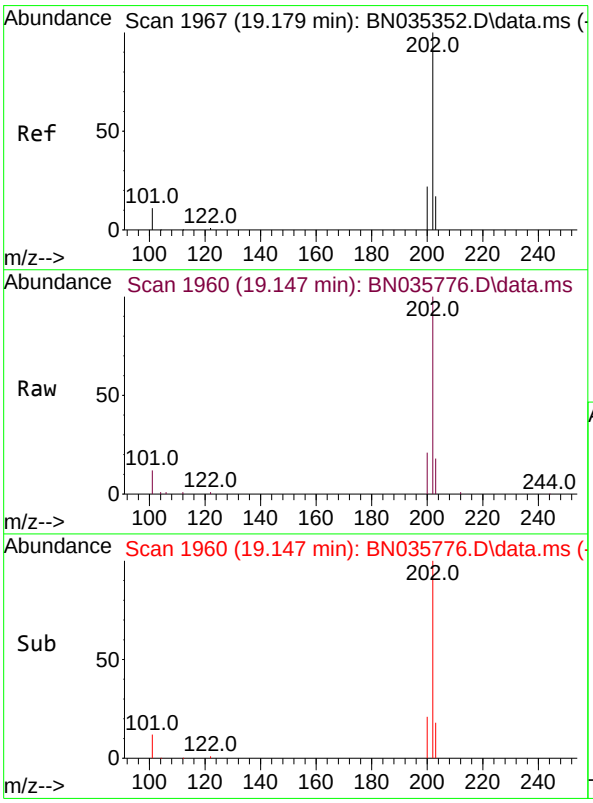
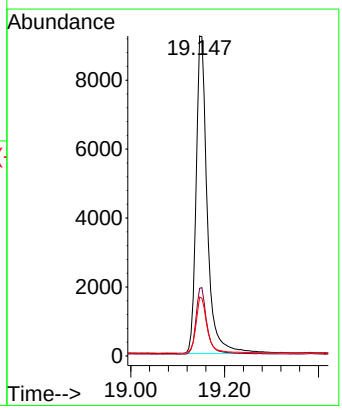
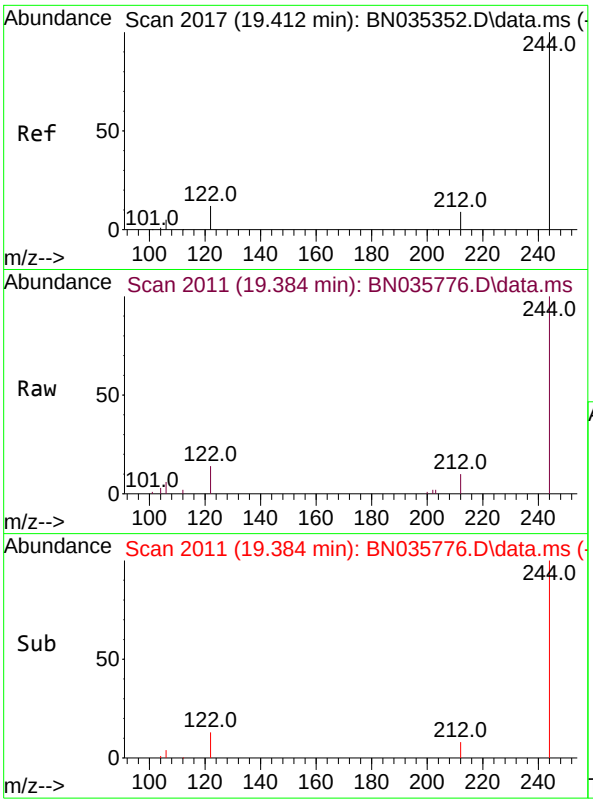


#30
Pyrene
Concen: 0.472 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15291

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.9	14.3	21.5

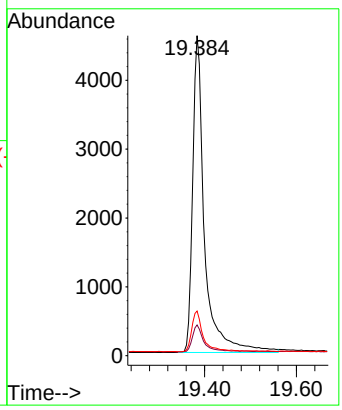




#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:244 Resp: 826

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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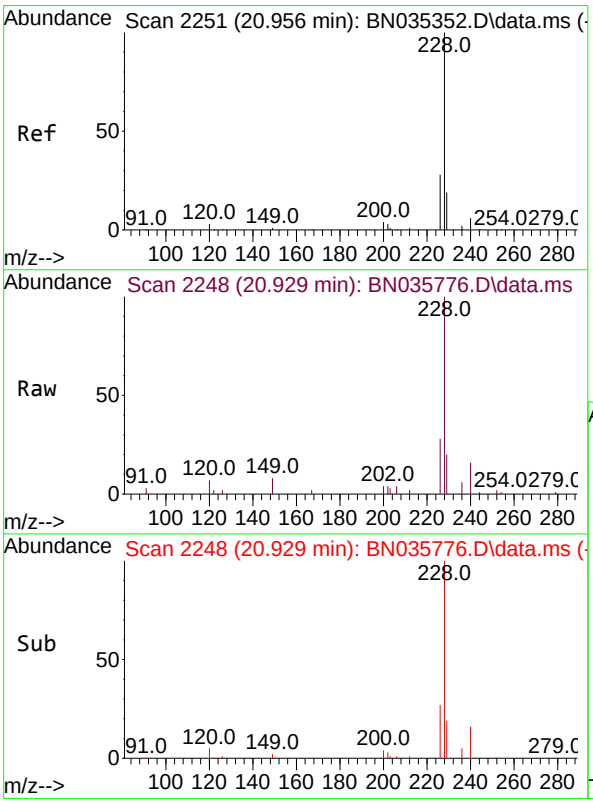
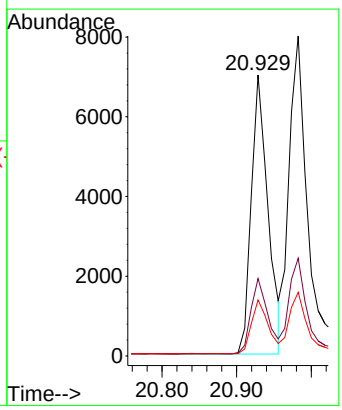
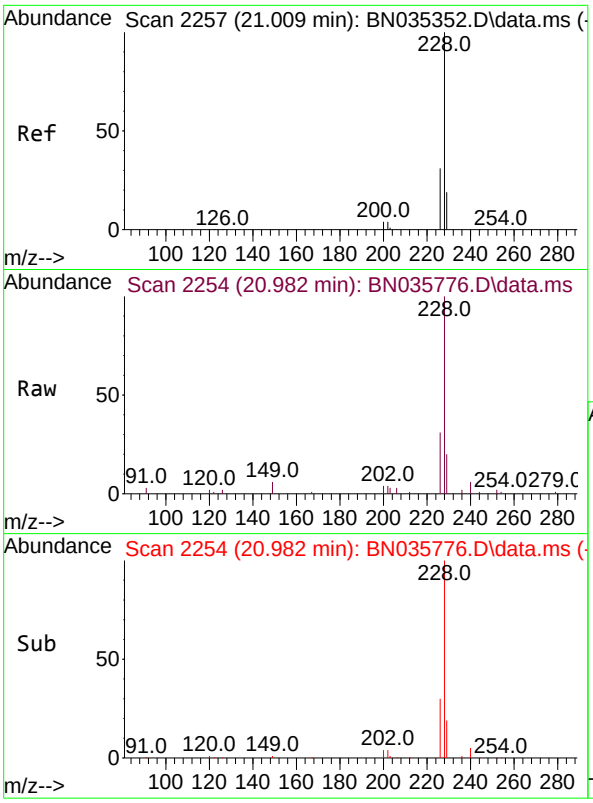


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 10904

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.9	15.8	23.8

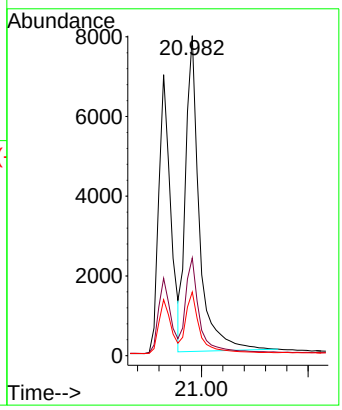




#33
Chrysene
Concen: 0.447 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 1412

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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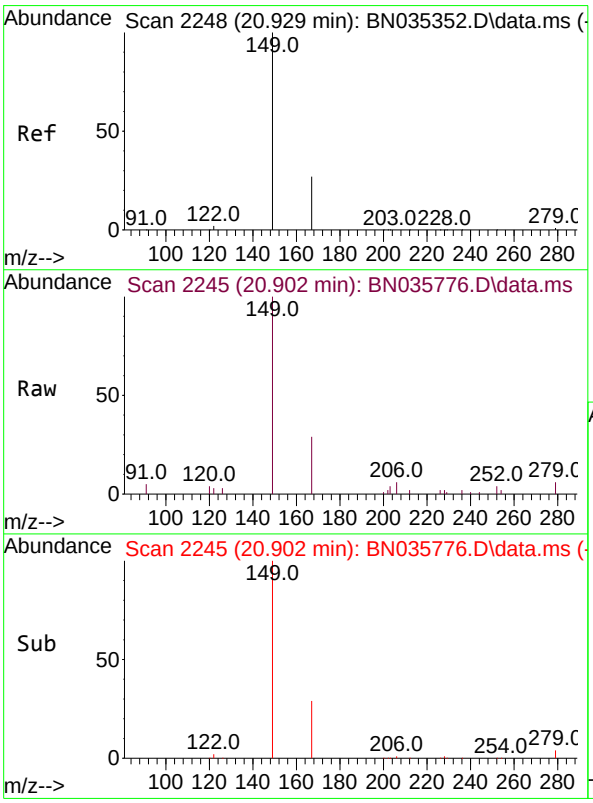
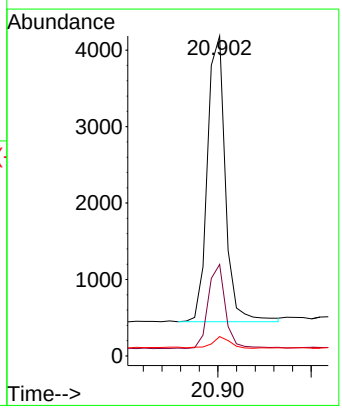
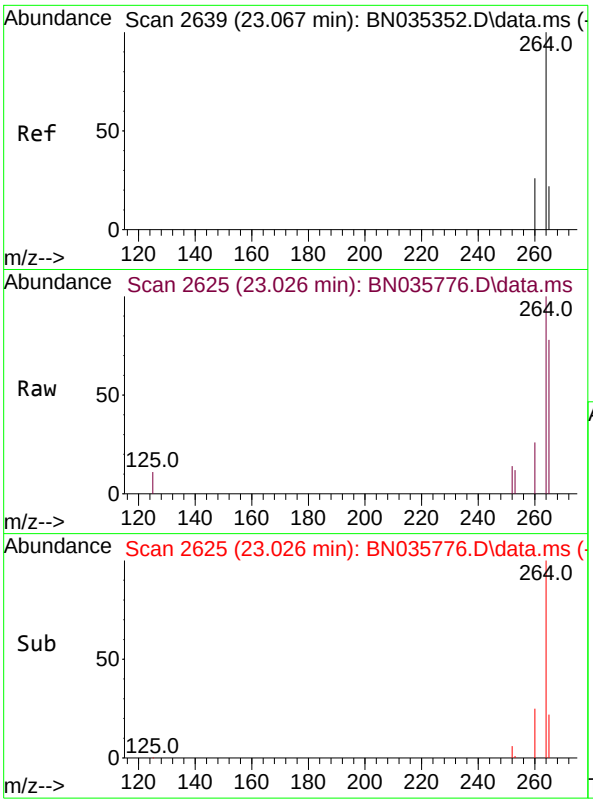


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:149 Resp: 4992

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1

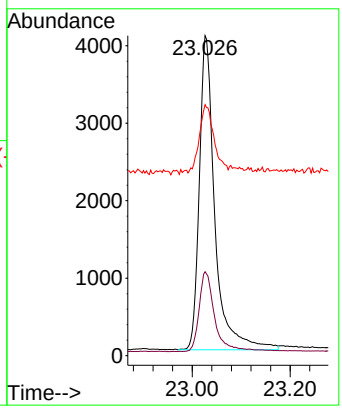




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:264 Resp: 891

Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.4	32.2
265	78.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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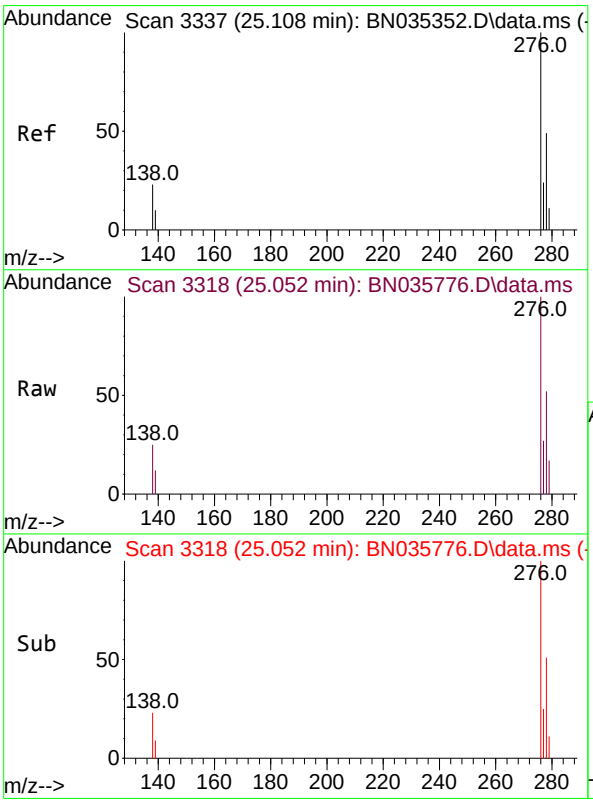
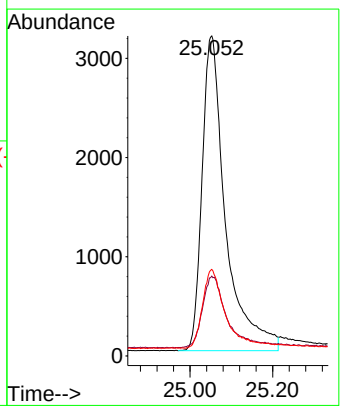
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

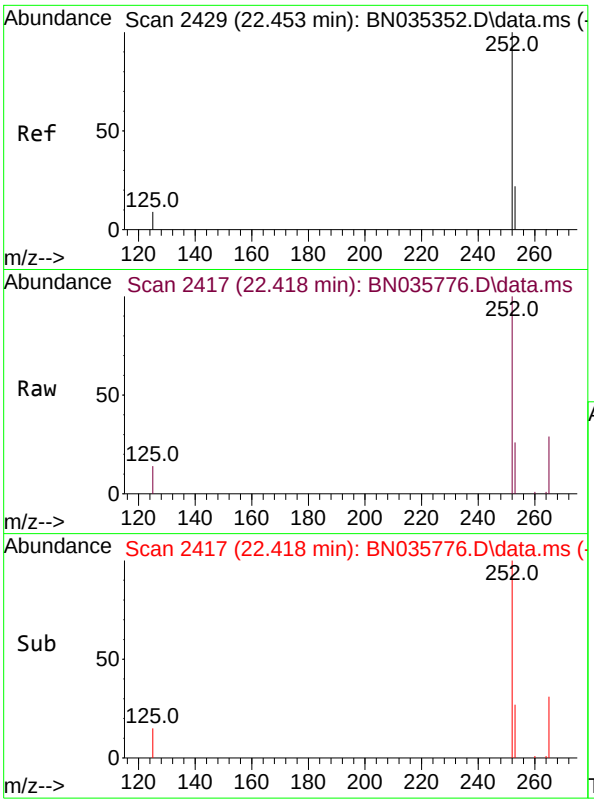


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 12530

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.2	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.646 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

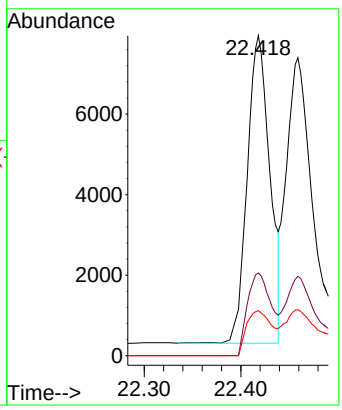
Tgt Ion:252 Resp: 2107

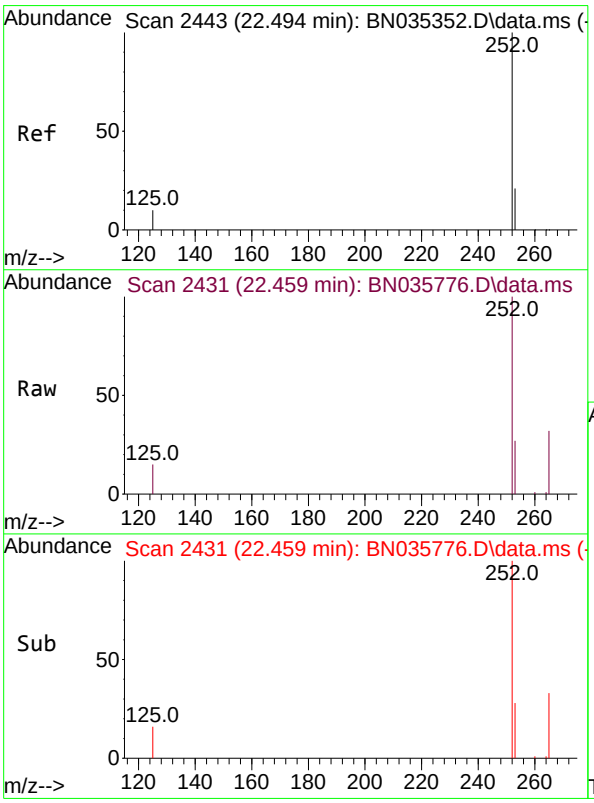
Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.1	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

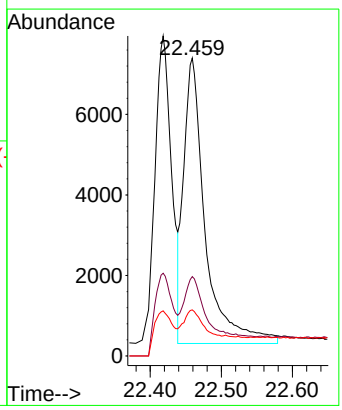


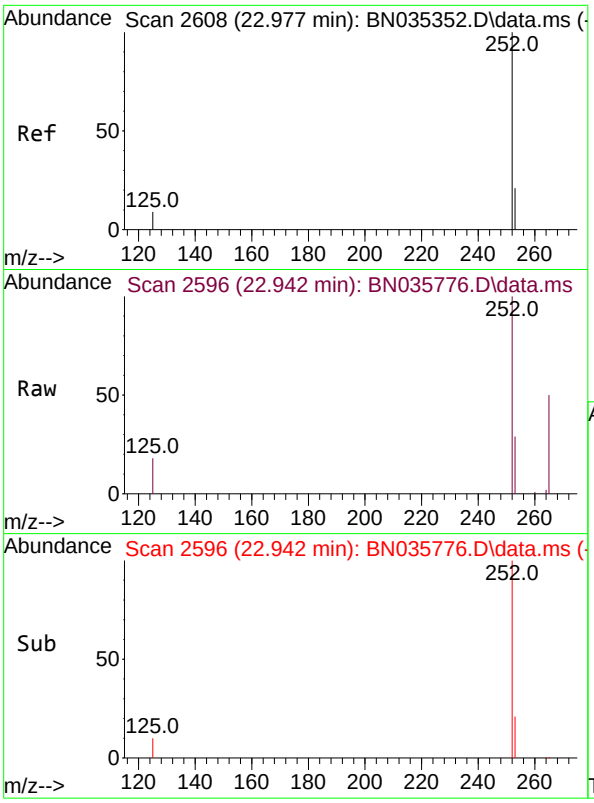


#38
Benzo(k)fluoranthene
Concen: 0.466 ng m
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 14978

Ion	Ratio	Lower	Upper
252	100		
253	26.6	19.5	29.3
125	15.5	10.2	15.4#

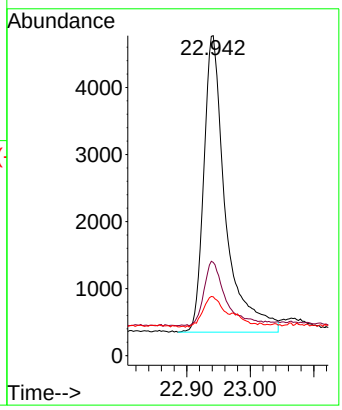




#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 1051

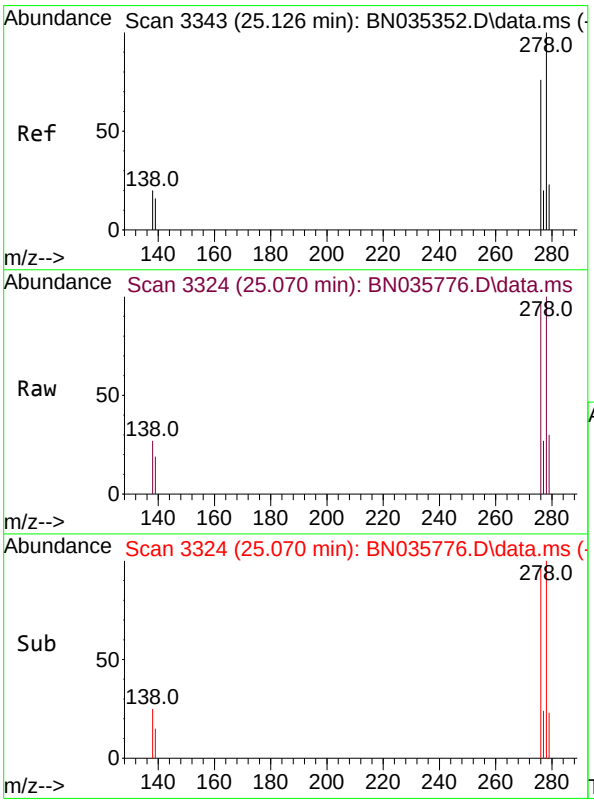
Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	18.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

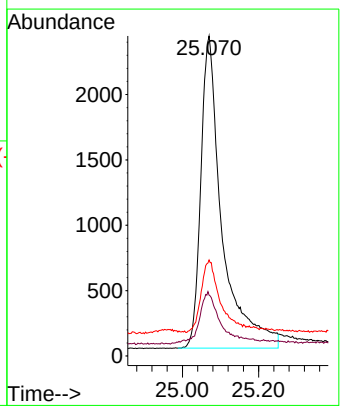
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

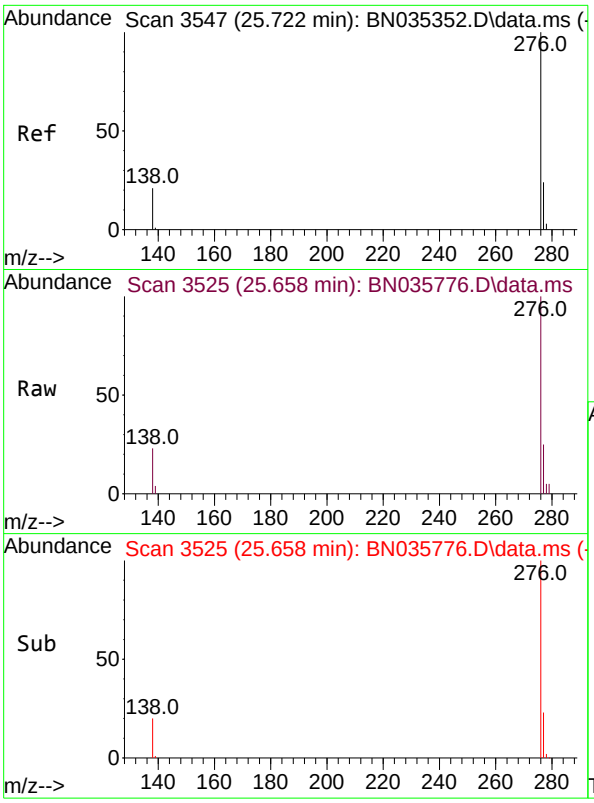


#40
Dibenzo(a,h)anthracene
Concen: 0.337 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:278 Resp: 9258

Ion	Ratio	Lower	Upper
278	100		
139	19.0	14.2	21.4
279	30.0	20.5	30.7

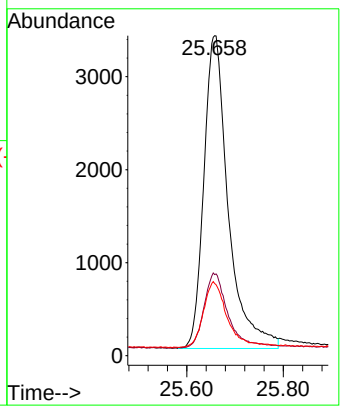




#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 1183

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	22.6	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Sample Results: **BN035776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	190#	0.00
2		1,4-Dioxane	0.382	0.429	-12.3	216#	0.00
3		n-Nitrosodimethylamine	0.319	0.329	-3.1	191#	0.00
4	S	2-Fluorophenol	1.001	1.008	-0.7	188#	0.00
5	S	Phenol-d6	1.204	1.111	7.7	177#	-0.01
6		bis(2-Chloroethyl)ether	1.012	1.016	-0.4	194#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	193#	-0.01
8	S	Nitrobenzene-d5	0.244	0.284	-16.4	234#	-0.01
9		Naphthalene	1.055	1.082	-2.6	200#	-0.01
10		Hexachlorobutadiene	0.243	0.266	-9.5	208#	-0.01
11	SURR	2-Methylnaphthalene-d10	0.626	0.601	4.0	188#	-0.01
12		2-Methylnaphthalene	0.755	0.691	8.5	180#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	155#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.205	27.8#	124	-0.01
15	S	2-Fluorobiphenyl	1.512	1.601	-5.9	165#	-0.01
16		Acenaphthylene	1.680	1.615	3.9	157#	-0.01
17		Acenaphthene	1.115	1.158	-3.9	165#	-0.01
18		Fluorene	1.596	1.439	9.8	145	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.015	61.5#	53	0.00
21		4-Bromophenyl-phenylether	0.234	0.233	0.4	125	-0.01
22		Hexachlorobenzene	0.275	0.341	-24.0	152#	-0.01
23		Atrazine	0.167	0.149	10.8	118	0.00
24		Pentachlorophenol	0.120	0.117	2.5	149	-0.01
25		Phenanthrene	1.099	1.088	1.0	124	-0.01
26		Anthracene	0.994	0.925	6.9	120	0.00
27	SURR	Fluoranthene-d10	1.134	1.037	8.6	117	0.00
28		Fluoranthene	1.481	1.308	11.7	112	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	92	0.00
30		Pyrene	1.477	1.744	-18.1	109	-0.01
31	S	Terphenyl-d14	0.789	0.943	-19.5	110	0.00
32		Benzo(a)anthracene	1.399	1.243	11.2	84	0.00
33		Chrysene	1.443	1.611	-11.6	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.569	-2.9	102	0.00
35	I	Perylene-d12	1.000	1.000	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.405	10.2	75	-0.01
37		Benzo(b)fluoranthene	1.463	2.363	-61.5#	148	-0.01
38		Benzo(k)fluoranthene	1.440	1.680	-16.7	99	-0.01
39	C	Benzo(a)pyrene	1.205	1.179	2.2	85	0.00
40		Dibenzo(a,h)anthracene	1.234	1.038	15.9	72	-0.01
41		Benzo(g,h,i)perylene	1.289	1.327	-2.9	87	-0.02

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035776.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	190	0.00
2		1,4-Dioxane	0.400	0.448	-12.0	216	0.00
3		n-Nitrosodimethylamine	0.400	0.413	-3.2	191	0.00
4	S	2-Fluorophenol	0.400	0.403	-0.8	188	0.00
5	S	Phenol-d6	0.400	0.369	7.8	177	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.402	-0.5	194	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	193	-0.01
8	S	Nitrobenzene-d5	0.400	0.466	-16.5	234	-0.01
9		Naphthalene	0.400	0.410	-2.5	200	-0.01
10		Hexachlorobutadiene	0.400	0.437	-9.2	208	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	188	-0.01
12		2-Methylnaphthalene	0.400	0.366	8.5	180	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	155	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.288	28.0#	124	-0.01
15	S	2-Fluorobiphenyl	0.400	0.424	-6.0	165	-0.01
16		Acenaphthylene	0.400	0.385	3.8	157	-0.01
17		Acenaphthene	0.400	0.415	-3.7	165	-0.01
18		Fluorene	0.400	0.361	9.8	145	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.157	60.8#	53	0.00
21		4-Bromophenyl-phenylether	0.400	0.398	0.5	125	-0.01
22		Hexachlorobenzene	0.400	0.497	-24.2	152	-0.01
23		Atrazine	0.400	0.359	10.3	118	0.00
24		Pentachlorophenol	0.400	0.391	2.3	149	-0.01
25		Phenanthrene	0.400	0.396	1.0	124	-0.01
26		Anthracene	0.400	0.372	7.0	120	0.00
27	SURR	Fluoranthene-d10	0.400	0.366	8.5	117	0.00
28		Fluoranthene	0.400	0.353	11.8	112	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	92	0.00
30		Pyrene	0.400	0.472	-18.0	109	-0.01
31	S	Terphenyl-d14	0.400	0.478	-19.5	110	0.00
32		Benzo(a)anthracene	0.400	0.355	11.3	84	0.00
33		Chrysene	0.400	0.447	-11.7	103	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.412	-3.0	102	0.00
35	I	Perylene-d12	0.400	0.400	0.0	82	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.359	10.3	75	-0.01
37		Benzo(b)fluoranthene	0.400	0.646	-61.5#	148	-0.01
38		Benzo(k)fluoranthene	0.400	0.466	-16.5	99	-0.01
39	C	Benzo(a)pyrene	0.400	0.391	2.3	85	0.00
40		Dibenzo(a,h)anthracene	0.400	0.337	15.8	72	-0.01
41		Benzo(g,h,i)perylene	0.400	0.412	-3.0	87	-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.: P5314 SAS No.: P5314 SDG No.: P5314

Instrument ID: BNA_N Calibration Date/Time: 12/23/2024 19:51

Lab File ID: BN035792.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	0.557		-11.0	50.0
Fluoranthene-d10	1.134	0.972		-14.3	50.0
2-Fluorophenol	1.001	0.954		-4.7	50.0
Phenol-d6	1.204	1.061		-11.9	50.0
Nitrobenzene-d5	0.244	0.295		20.9	50.0
2-Fluorobiphenyl	1.512	1.518		0.4	50.0
2,4,6-Tribromophenol	0.284	0.220		-22.5	50.0
Terphenyl-d14	0.789	0.806		2.2	50.0
1,4-Dioxane	0.382	0.383		0.3	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Quant Time: Dec 24 00:13:11 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	7.265	152	4653	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng		0.00
35) Perylene-d12	23.029	264	12122	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	4438	0.381	ng		0.00
5) Phenol-d6	6.477	99	4937	0.352	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3336m	0.484	ng		-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng		-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng		0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1781	0.400	ng		100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	#	87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng		100
9) Naphthalene	10.052	128	11411	0.383	ng		99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	#	99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng		100
16) Acenaphthylene	13.636	152	10309	0.371	ng		99
17) Acenaphthene	13.989	154	7045	0.382	ng		99
18) Fluorene	14.994	166	9147	0.346	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	#	71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	#	95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng		97
23) Atrazine	16.202	200	2050	0.366	ng		94
24) Pentachlorophenol	16.363	266	1288	0.321	ng		89
25) Phenanthrene	16.736	178	13655	0.370	ng		100
26) Anthracene	16.835	178	11693	0.350	ng		99
28) Fluoranthene	18.780	202	16797	0.337	ng		100
30) Pyrene	19.152	202	17165	0.416	ng		100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng		100
33) Chrysene	20.983	228	16717	0.415	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng		100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng		99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng		99
38) Benzo(k)fluoranthene	22.462	252	18914m	0.433	ng		
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	#	93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng		97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng		100

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

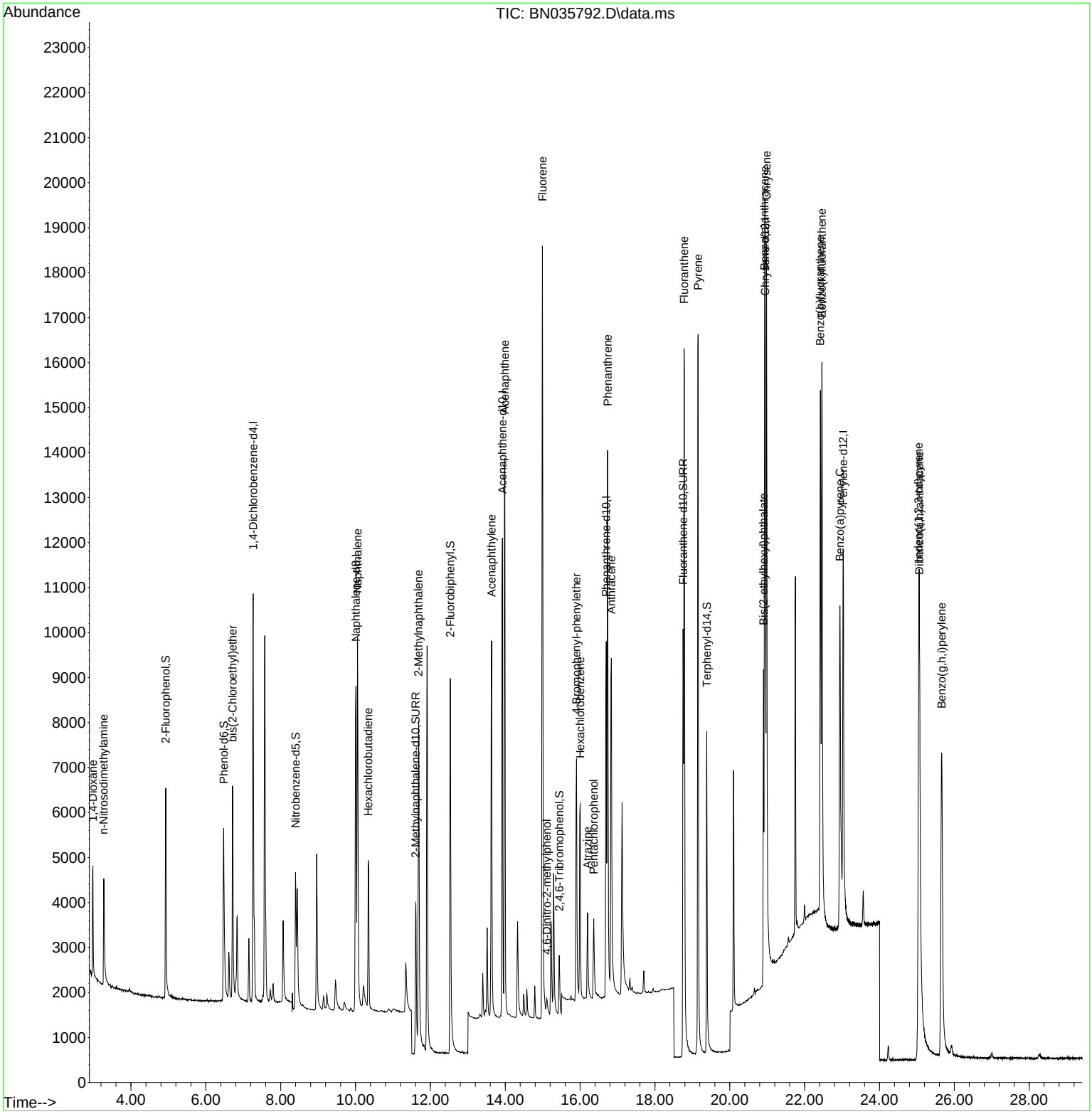
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

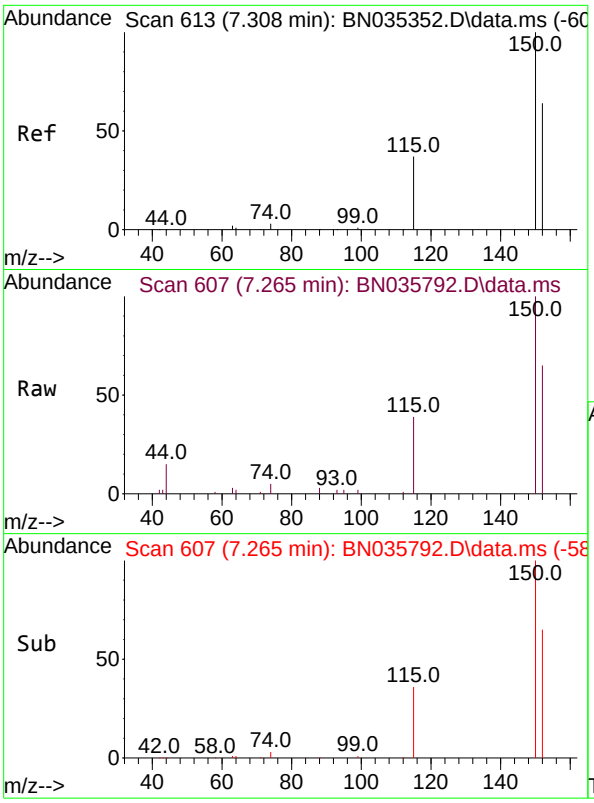
Quant Time: Dec 24 00:13:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

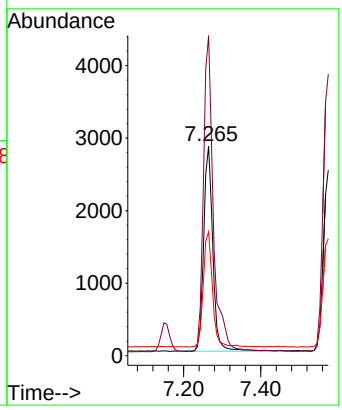




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 465

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	59.2	49.6	74.4



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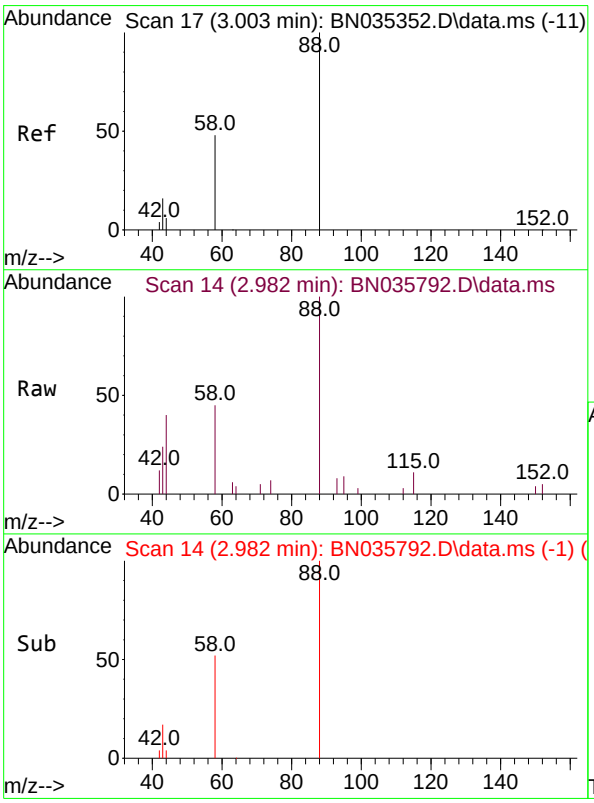
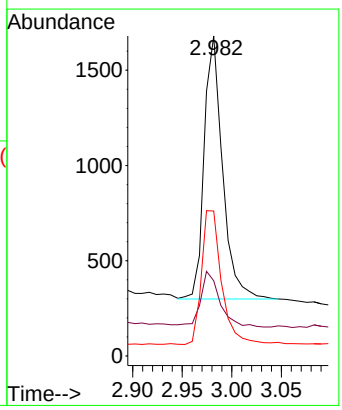
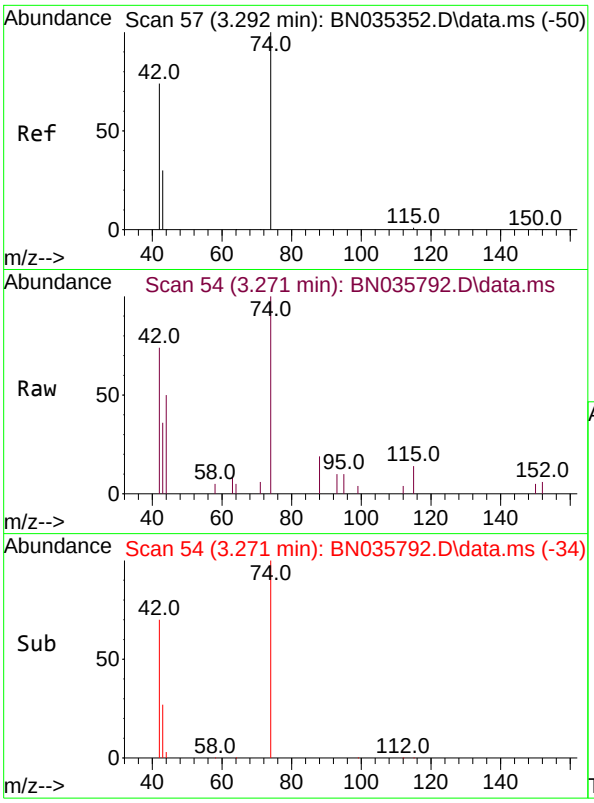


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 88 Resp: 1781

Ion	Ratio	Lower	Upper
88	100		
43	22.0	17.2	25.8
58	55.8	44.5	66.7

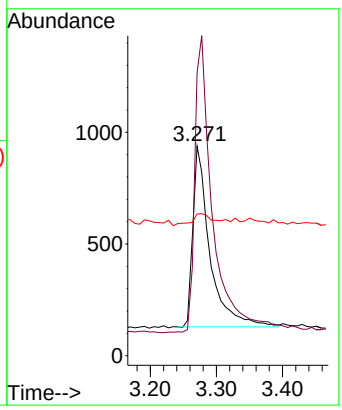




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 42 Resp: 145

Ion	Ratio	Lower	Upper
42	100		
74	173.0	124.9	187.3
44	5.2	2.2	3.4



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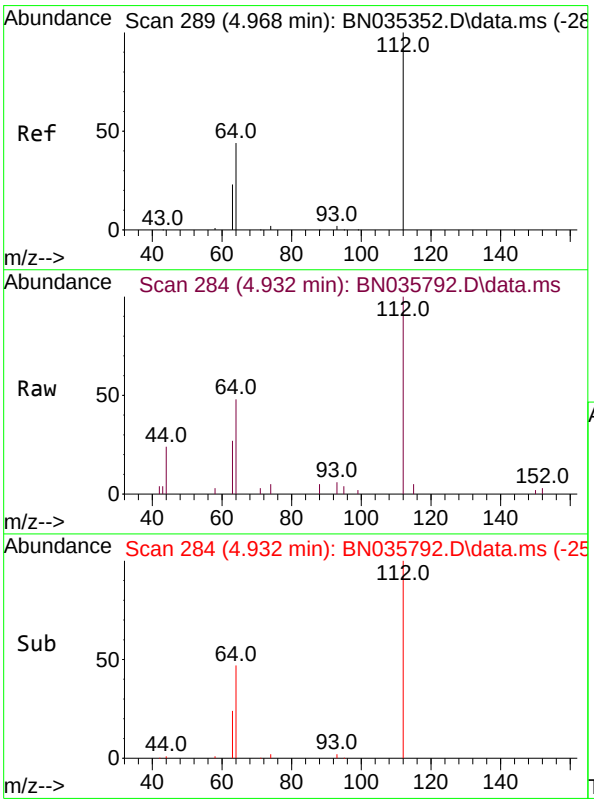
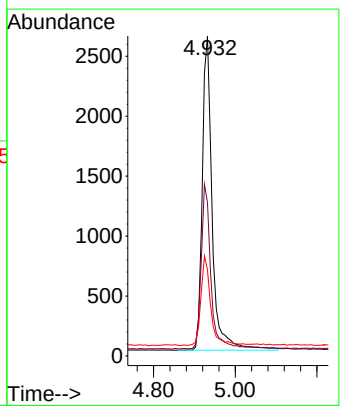
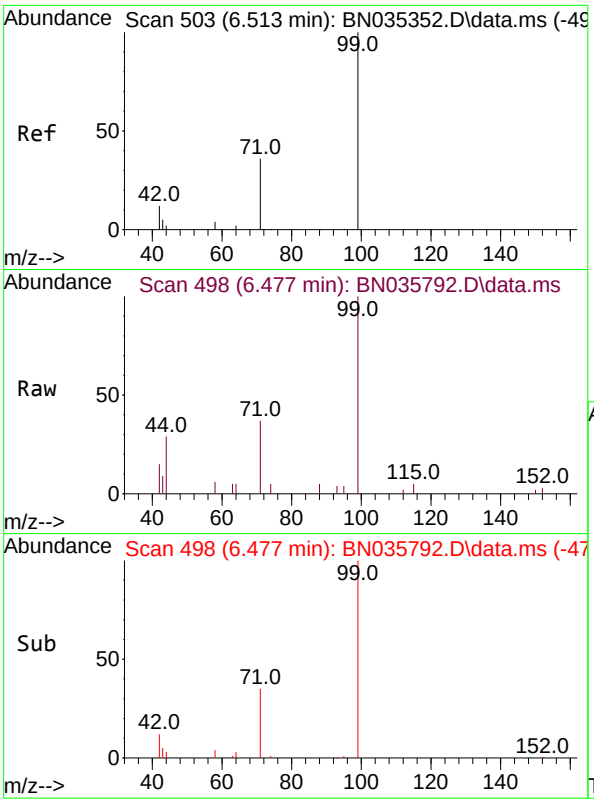


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:112 Resp: 4438

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	28.3	21.0	31.6





#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 99 Resp: 493

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.4	29.3	43.9

Instrument :
BNA_N
ClientSampleId :
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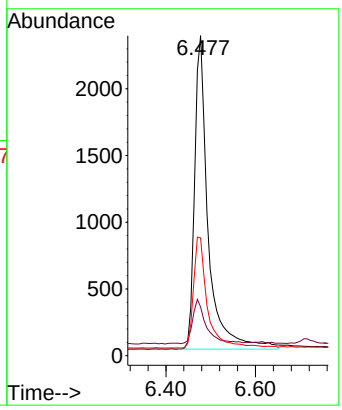
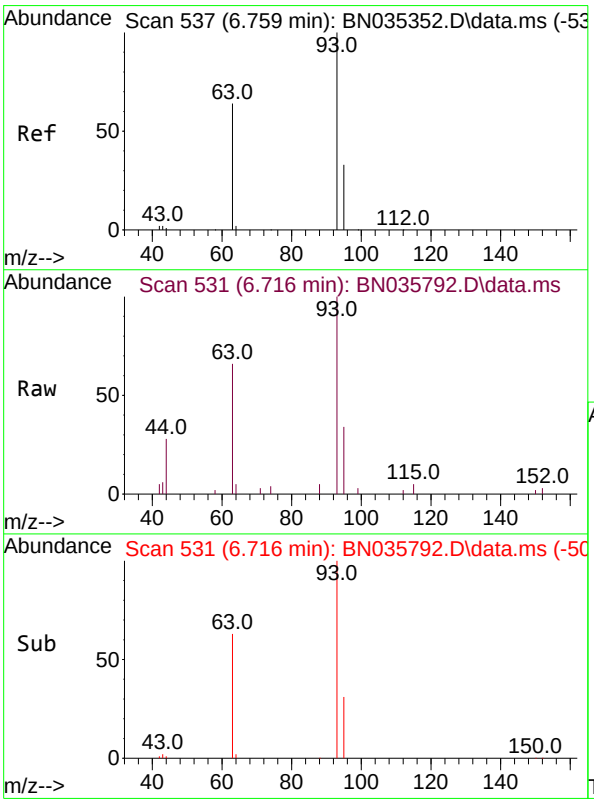
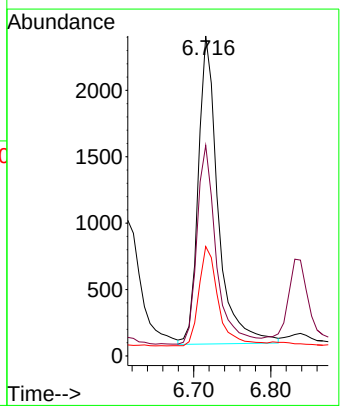


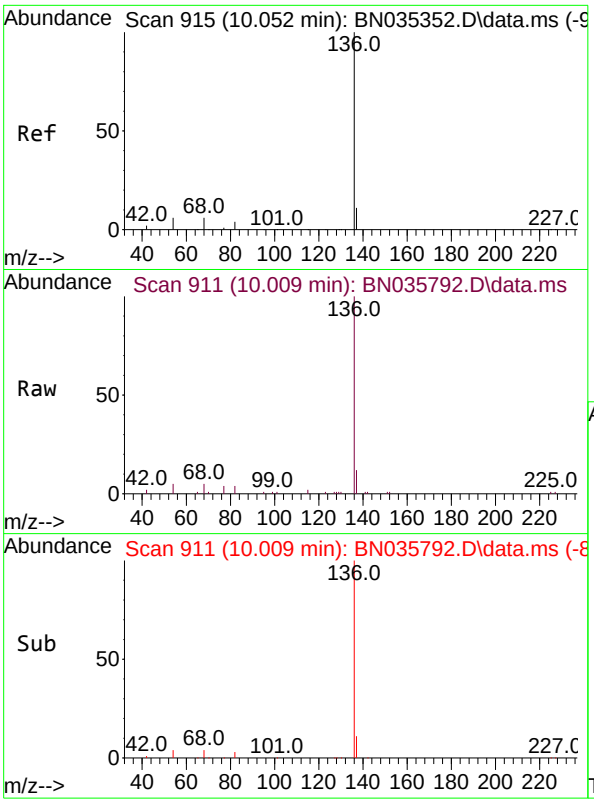


#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 93 Resp: 4124

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

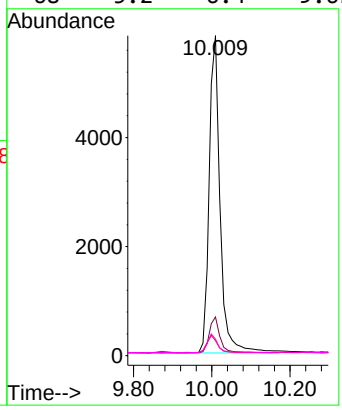




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:136 Resp: 1129

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.2	6.4	9.6#



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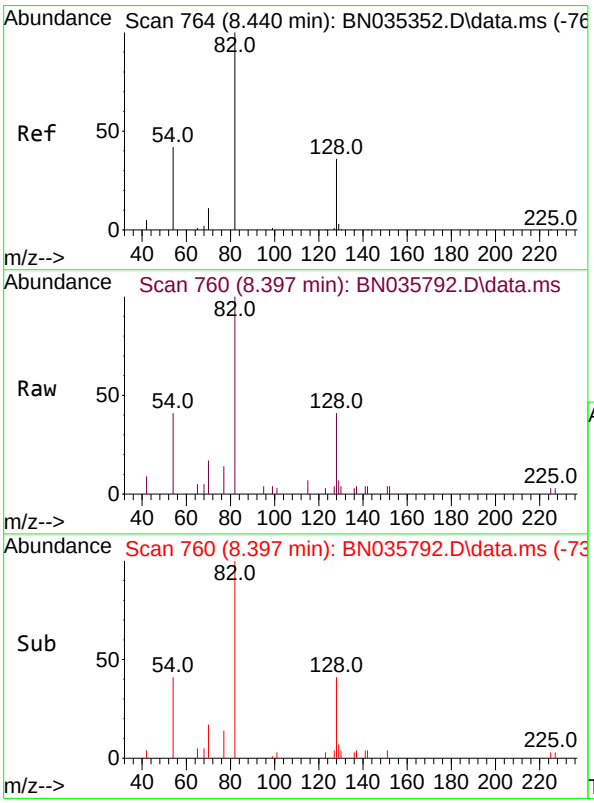
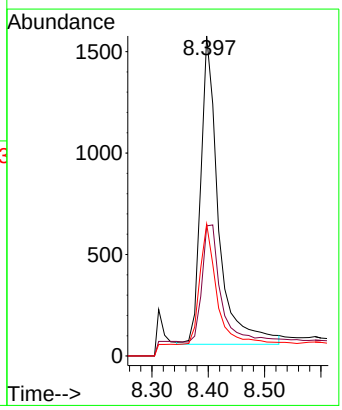
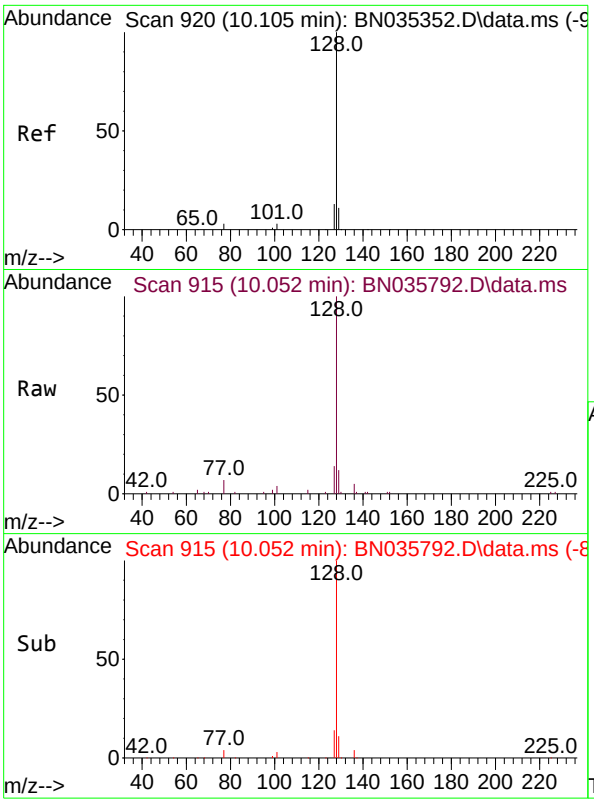


#8
Nitrobenzene-d5
Concen: 0.484 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 82 Resp: 3336

Ion	Ratio	Lower	Upper
82	100		
128	40.6	33.4	50.0
54	41.3	36.7	55.1





#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:128 Resp: 1141

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.6
127	14.3	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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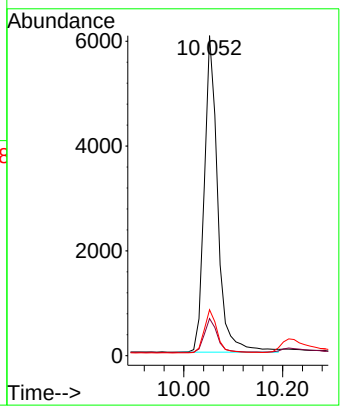
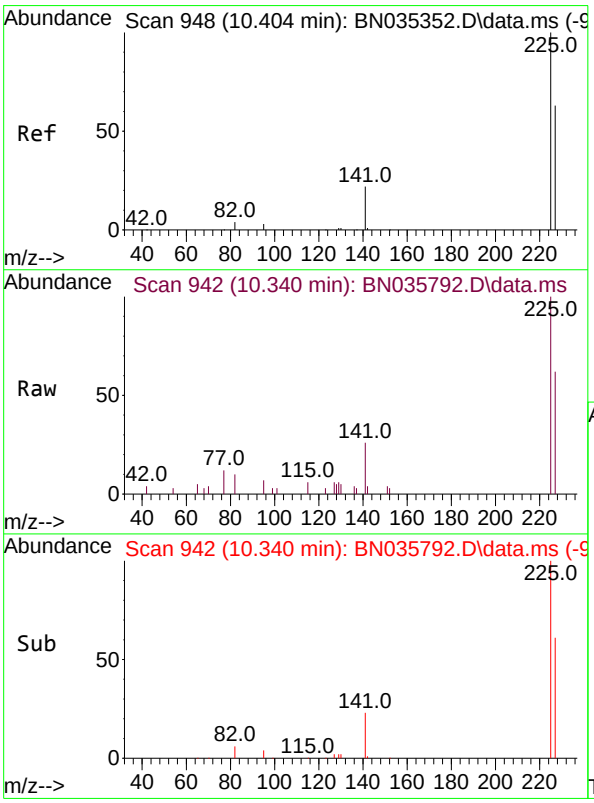
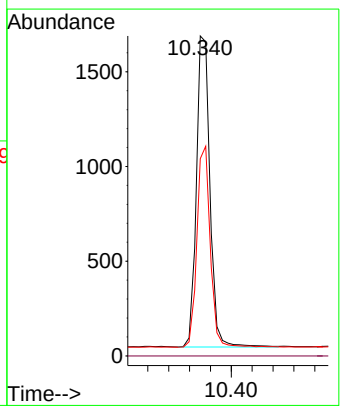


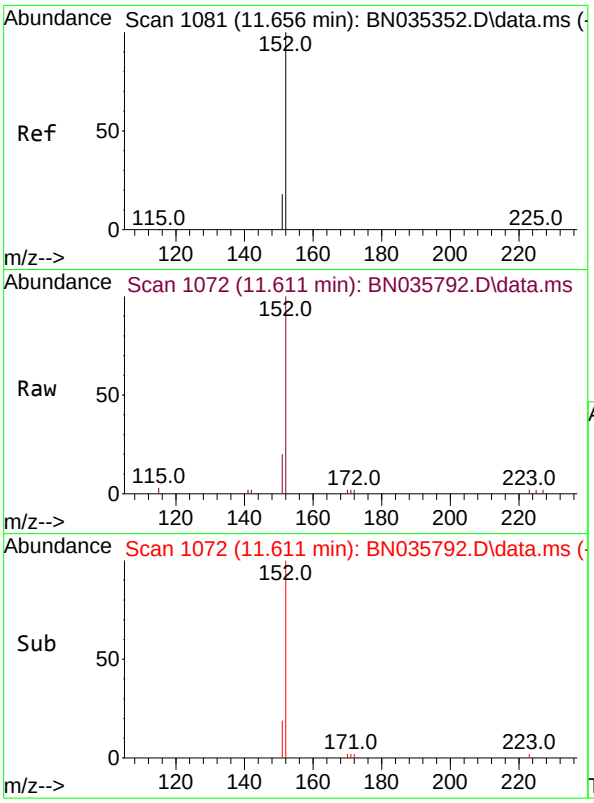


#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:225 Resp: 2978

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9

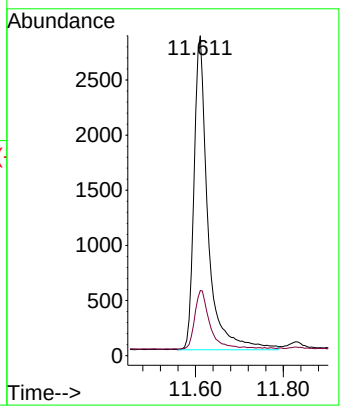




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1(
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 629(

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0



Instrument :
BNA_N
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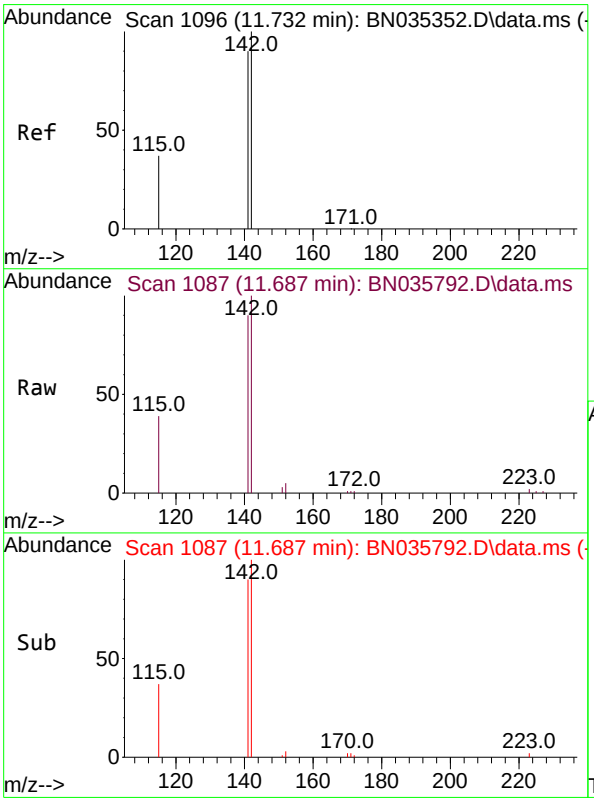
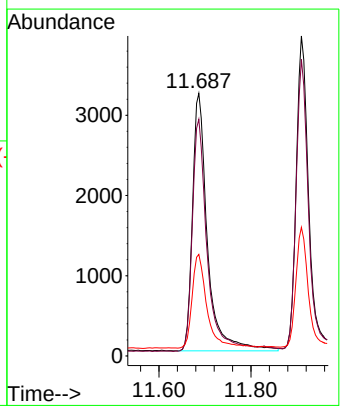
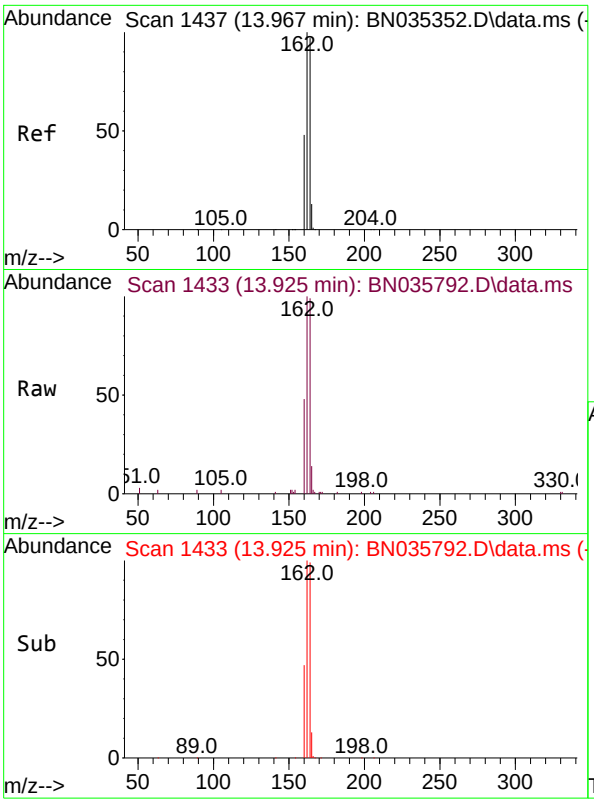


#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:142 Resp: 7291

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	38.7	31.4	47.0

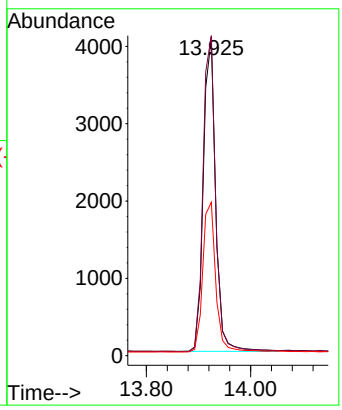




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:164 Resp: 662

Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	48.2	40.1	60.1



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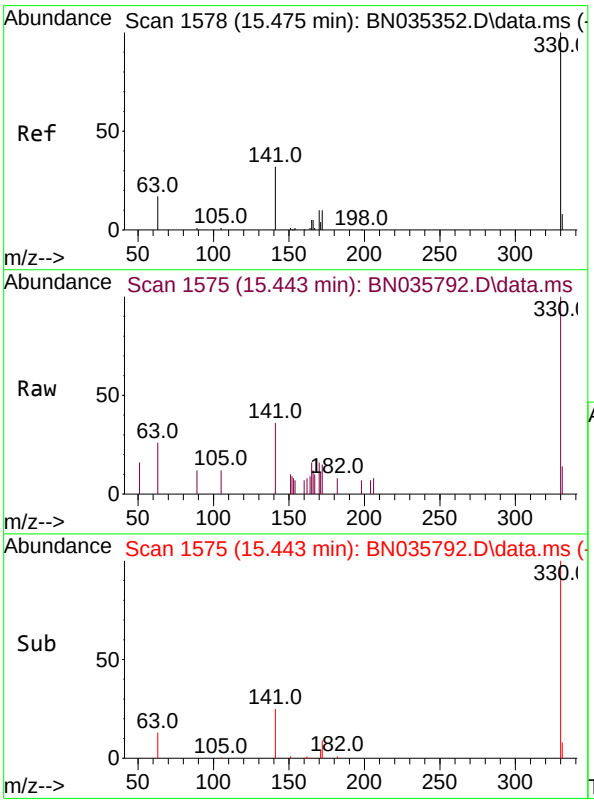
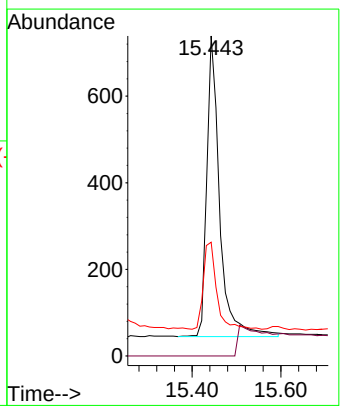
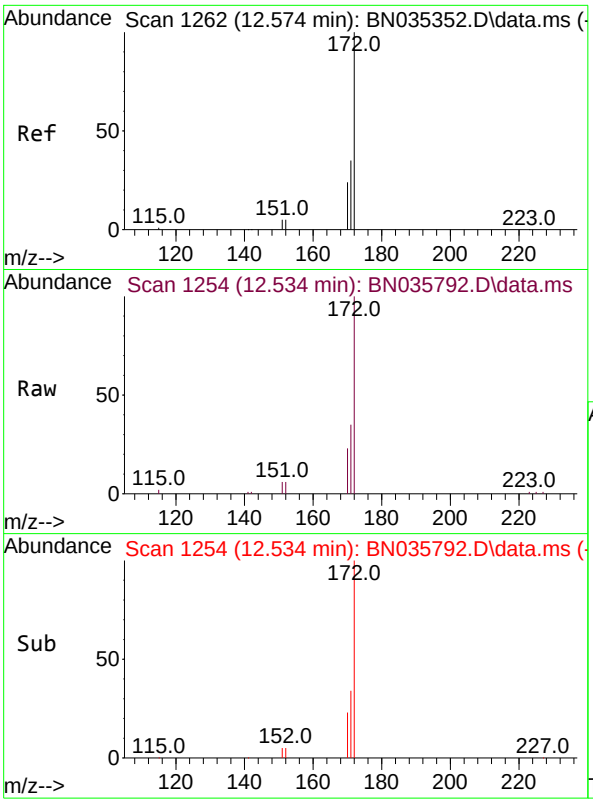


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:330 Resp: 1460

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

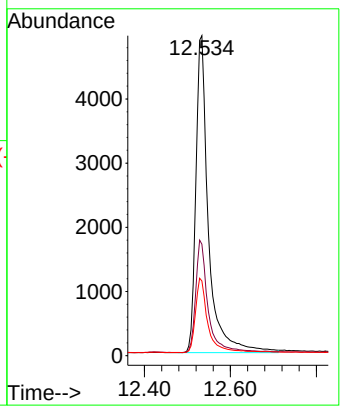




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:172 Resp: 1005

Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.3	19.8	29.8



Instrument :
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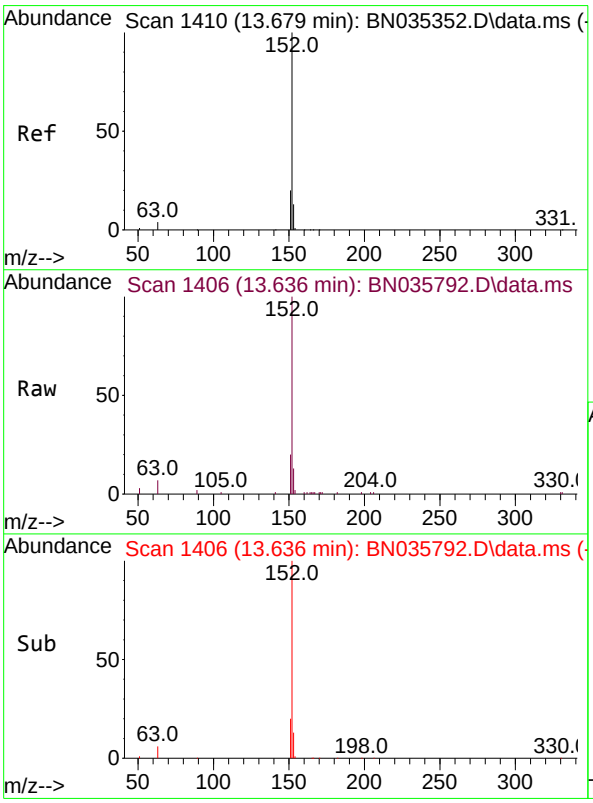
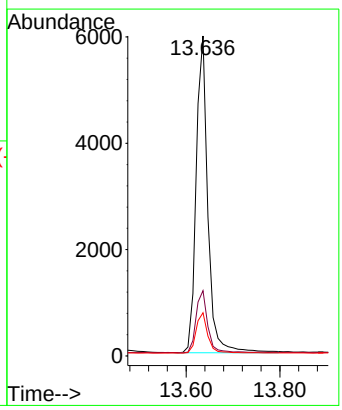
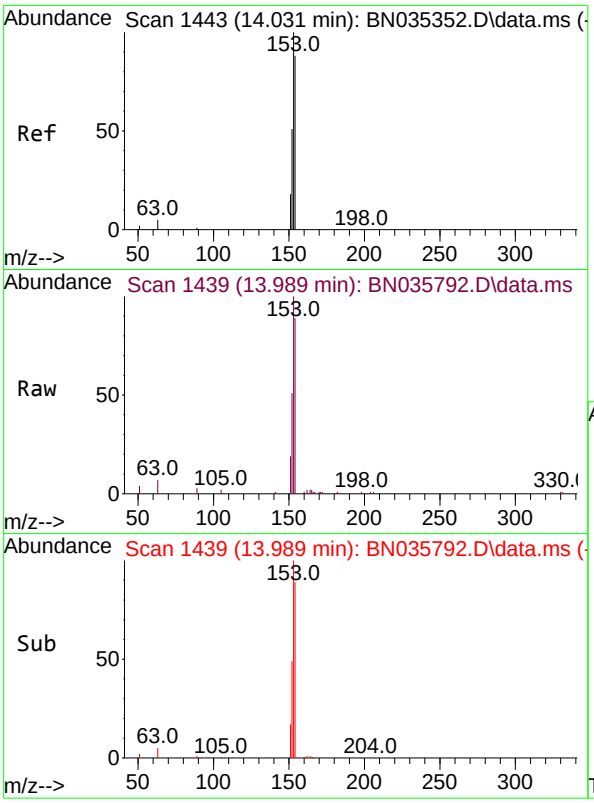


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 10309

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.9	10.4	15.6





#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:154 Resp: 704

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	60.1	49.0	73.6

Instrument :
BNA_N
ClientSampleId :
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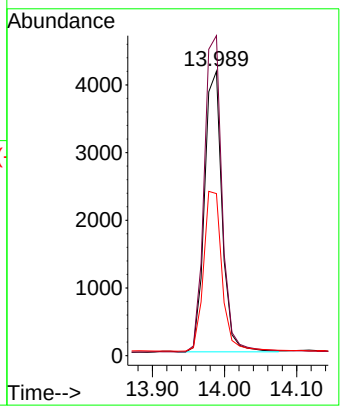
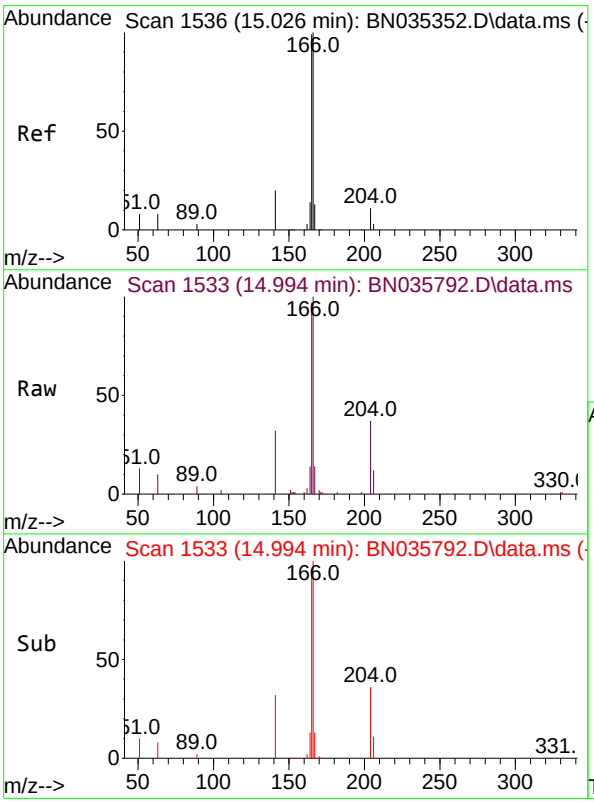
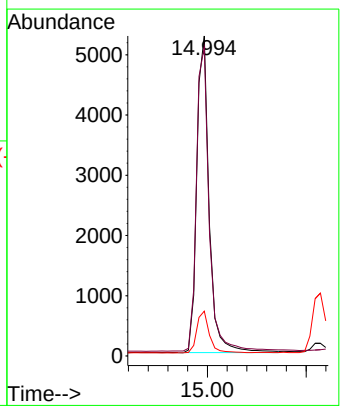


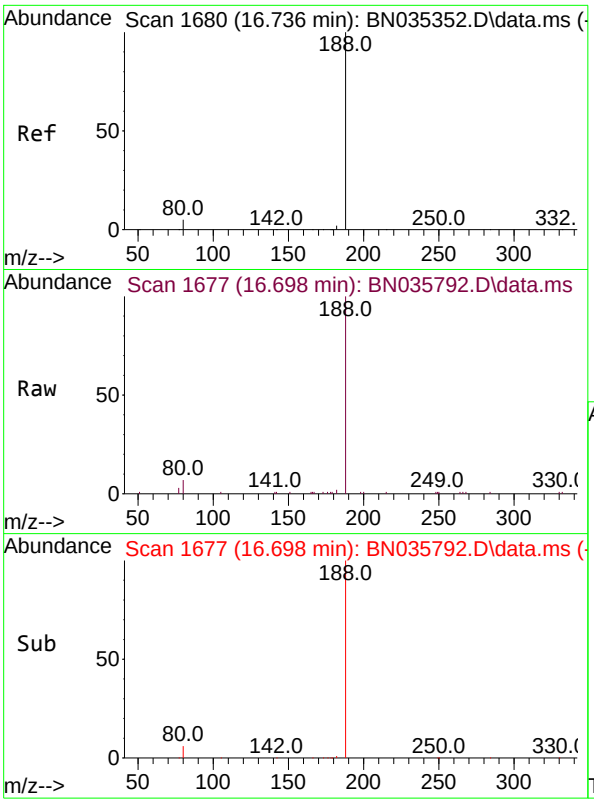


#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.4	10.8	16.2

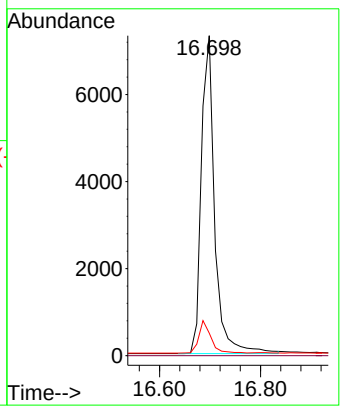




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:188 Resp: 1344

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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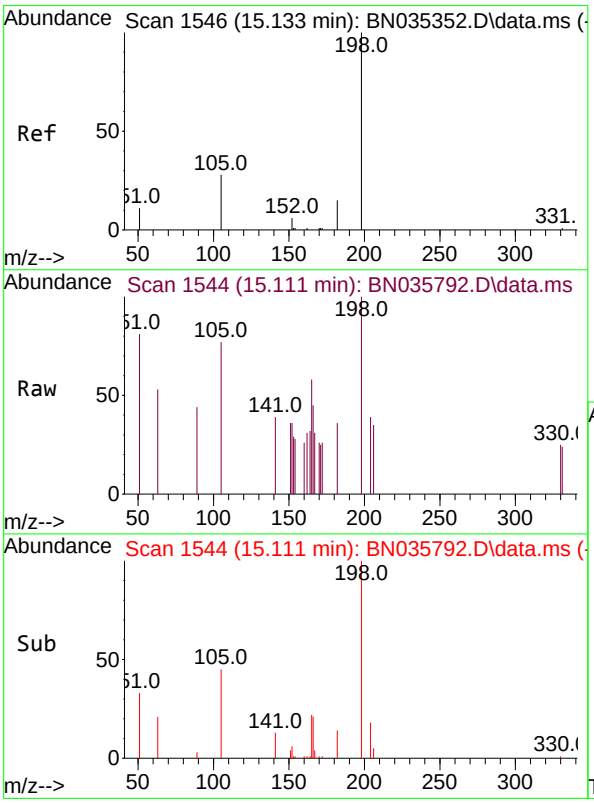
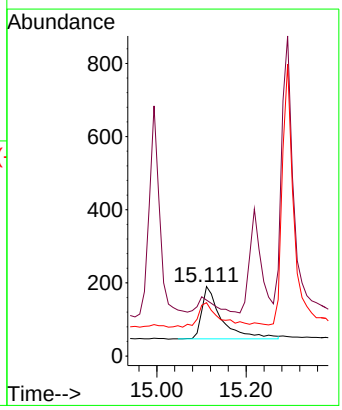
Supervised By :mohammad ahmed 12/26/2024

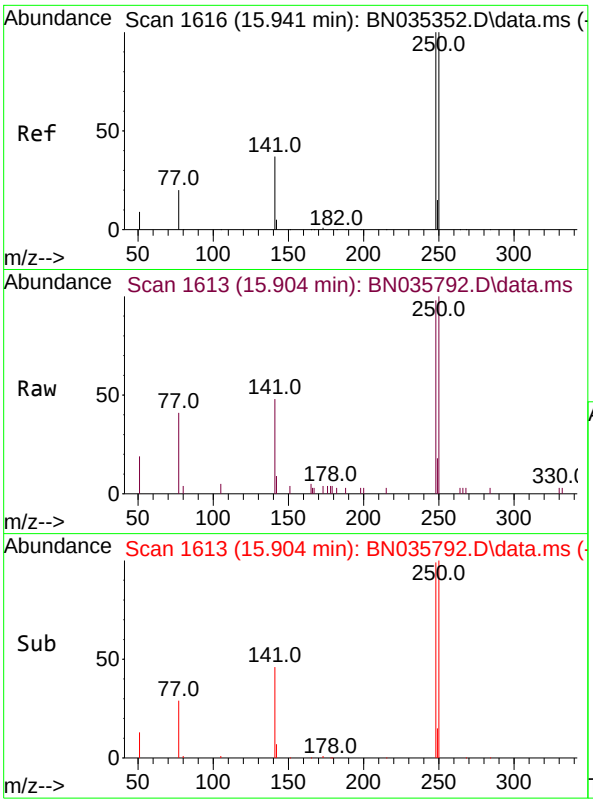


#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:198 Resp: 441

Ion	Ratio	Lower	Upper
198	100		
51	80.5	46.5	69.7#
105	76.8	45.3	67.9#

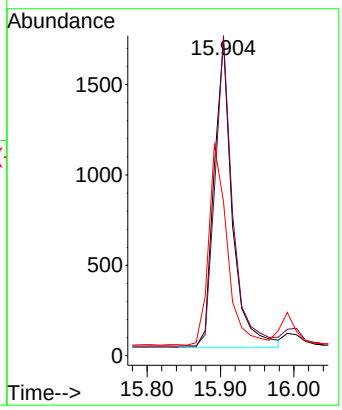




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:248 Resp: 292

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	48.9	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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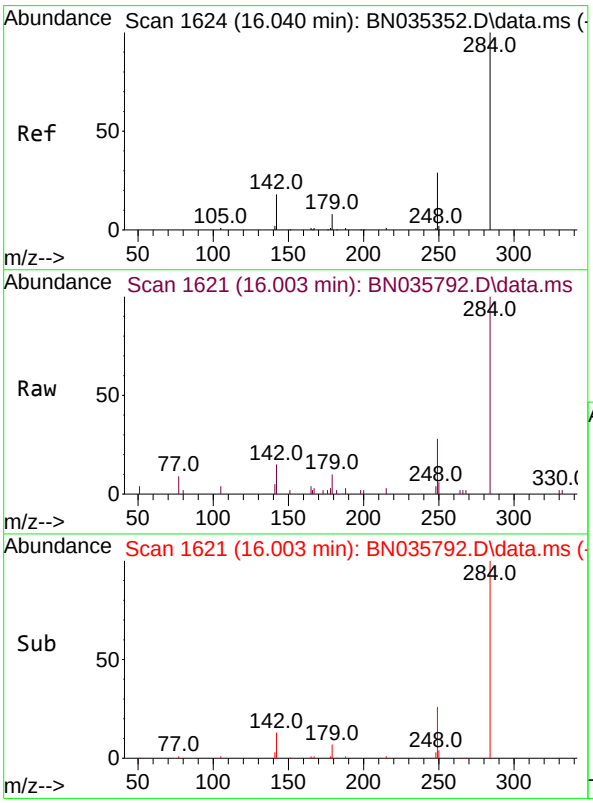
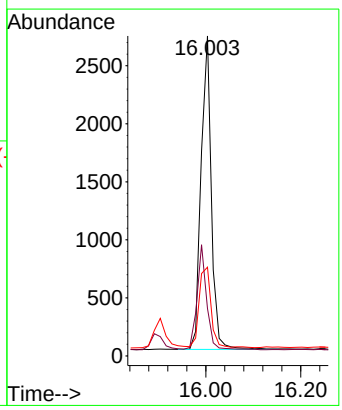
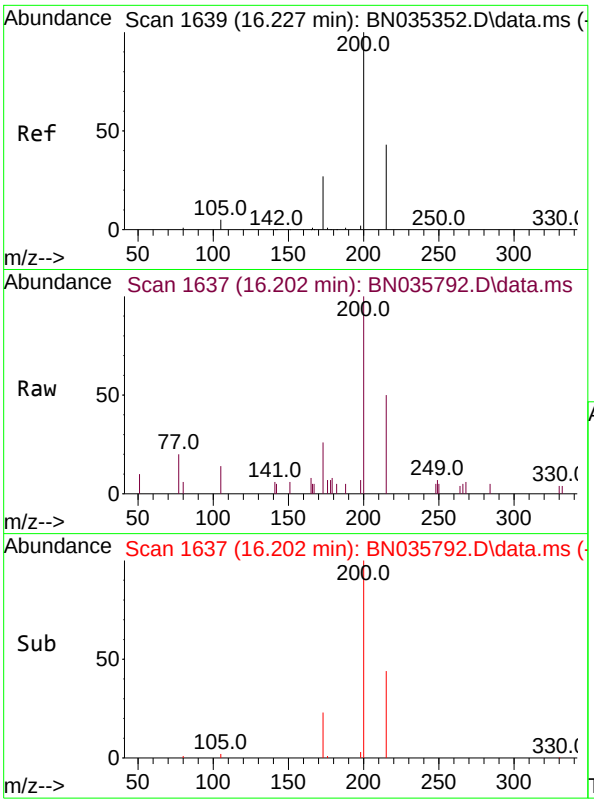


#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.7	40.1
249	30.0	24.6	36.8





#23
Atrazine
Concen: 0.366 ng
RT: 16.202 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:200 Resp: 205(

Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	49.7	36.9	55.3

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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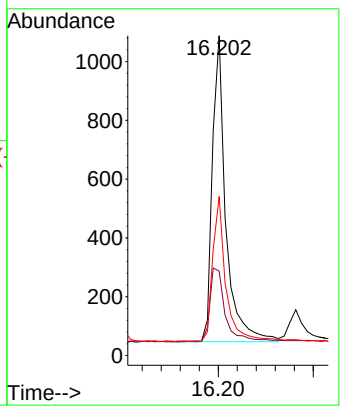
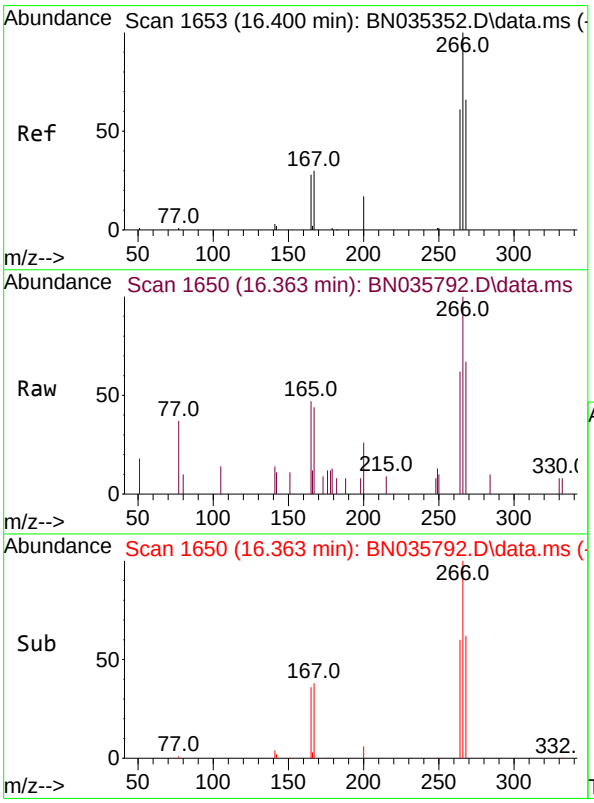
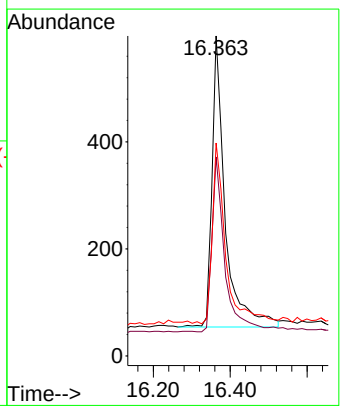


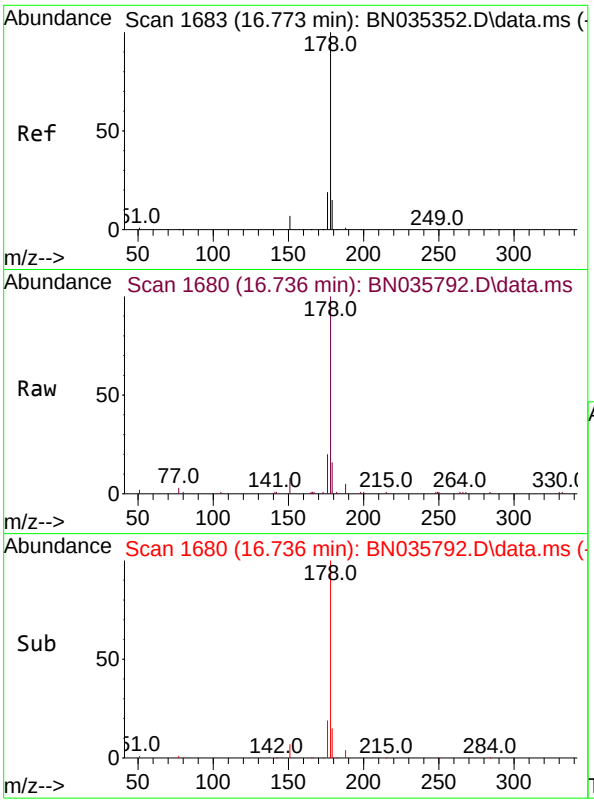


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:266 Resp: 1288

Ion	Ratio	Lower	Upper
266	100		
264	59.5	42.3	63.5
268	62.8	43.3	64.9

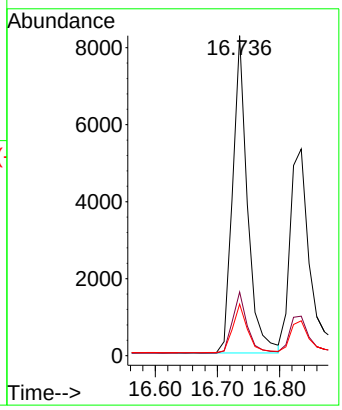




#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 1365

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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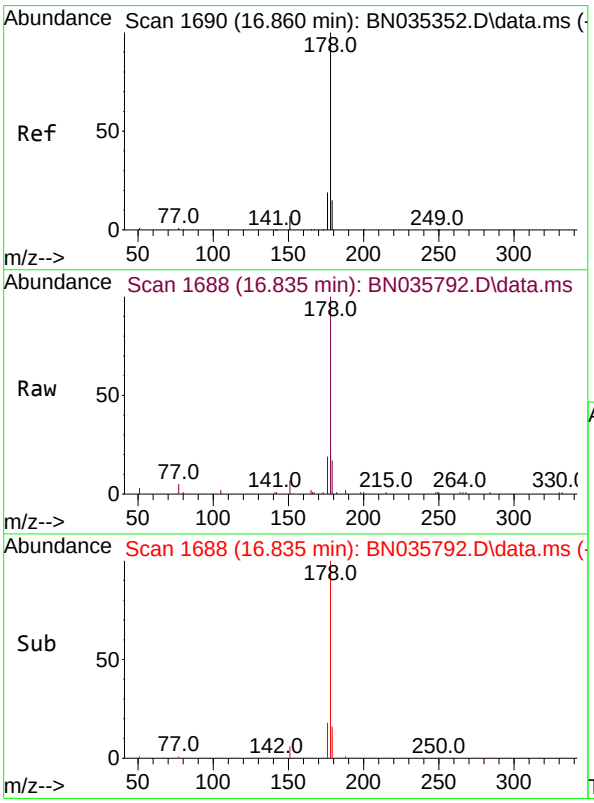
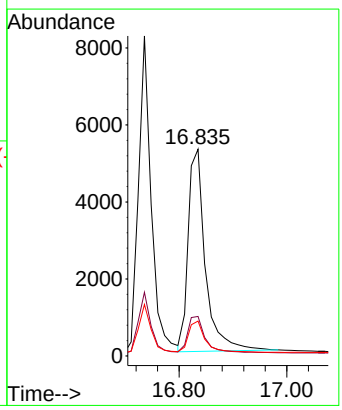
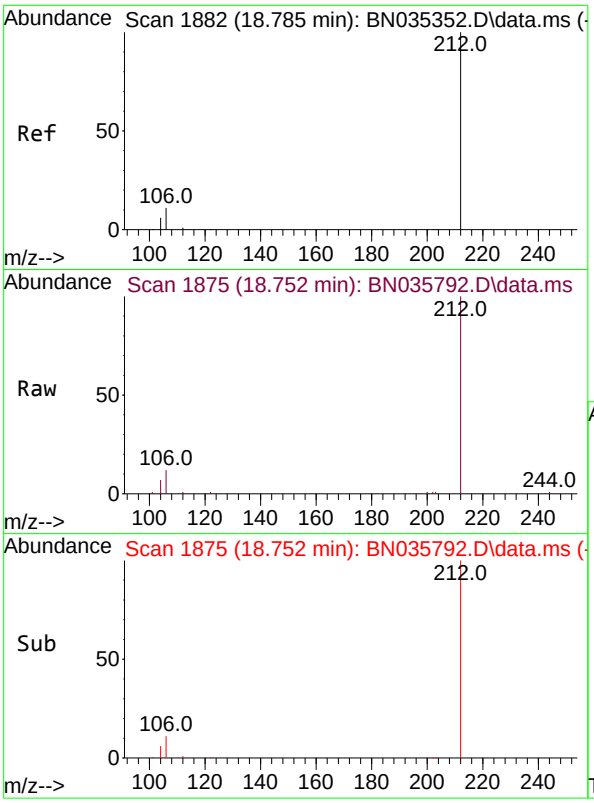


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 11693

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8

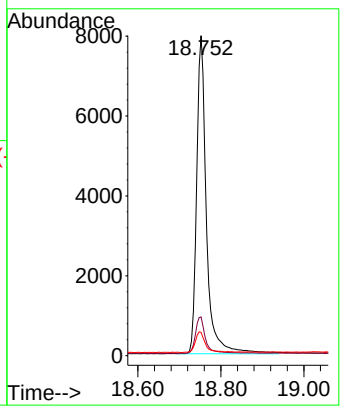




#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:212 Resp: 1306

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.6	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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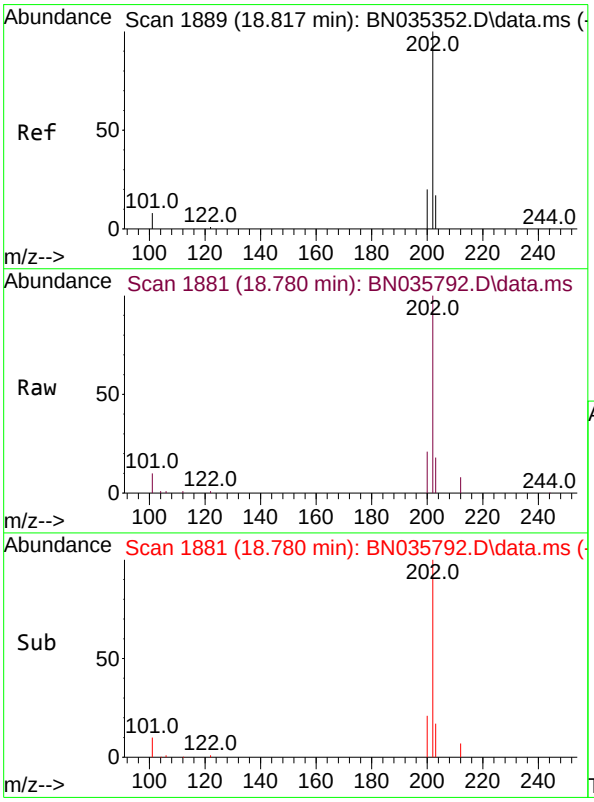
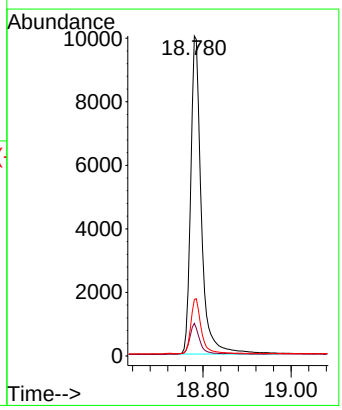
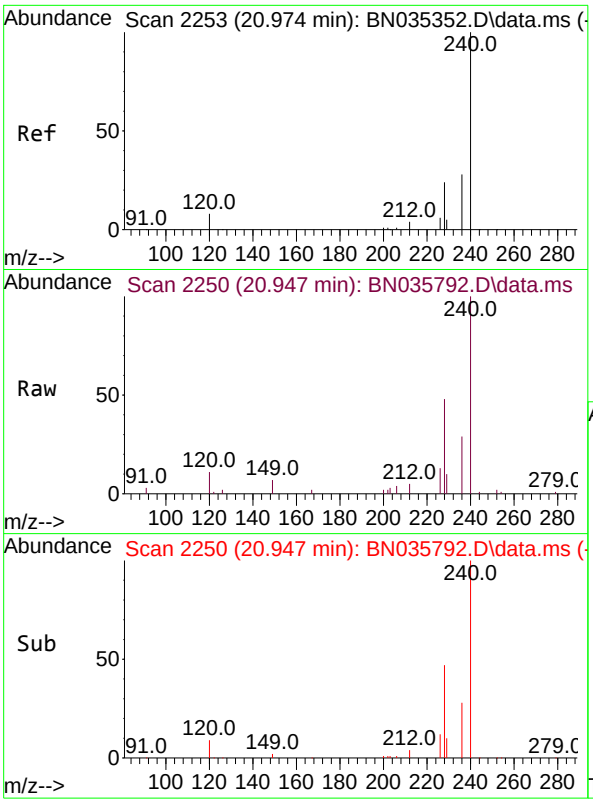


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	16.9	13.7	20.5

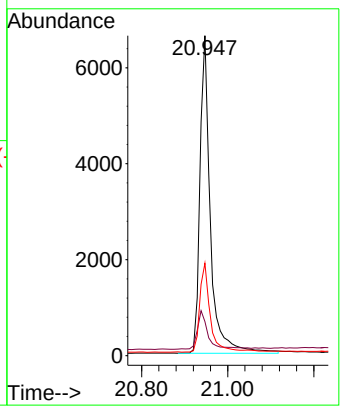




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:240 Resp: 1117

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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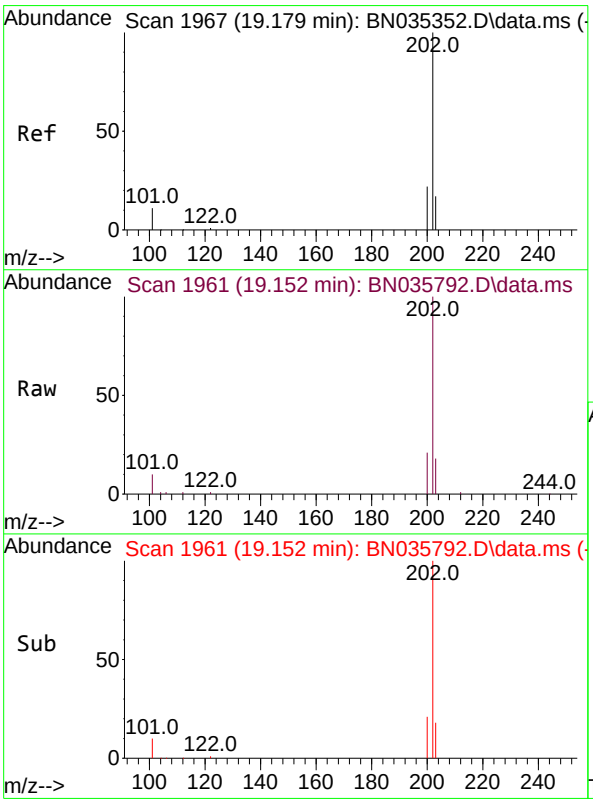
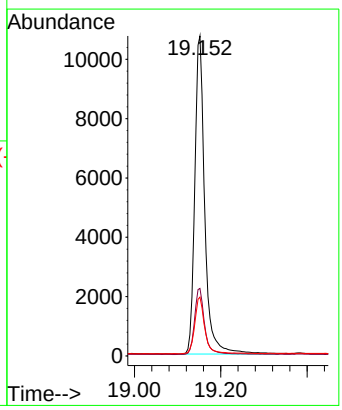
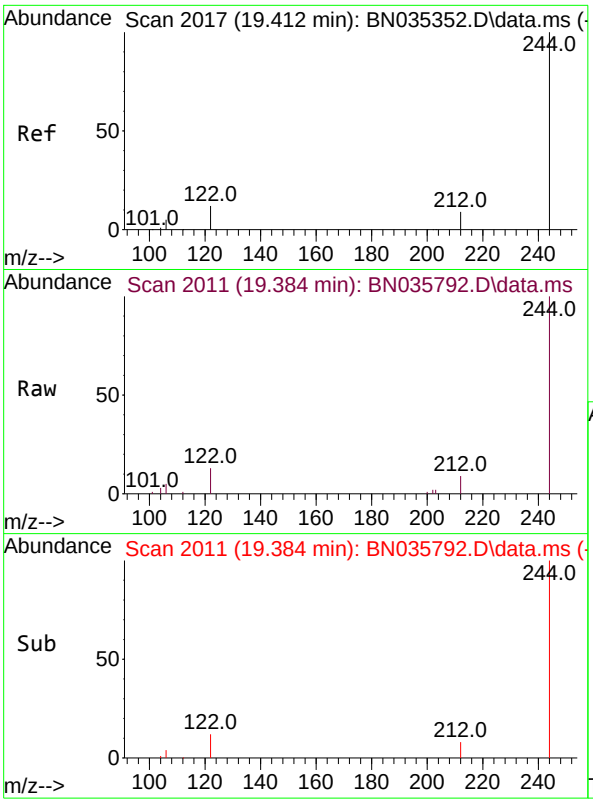


#30
Pyrene
Concen: 0.416 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 17165

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5

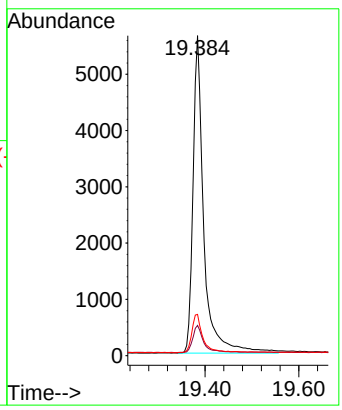




#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:244 Resp: 900

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.9	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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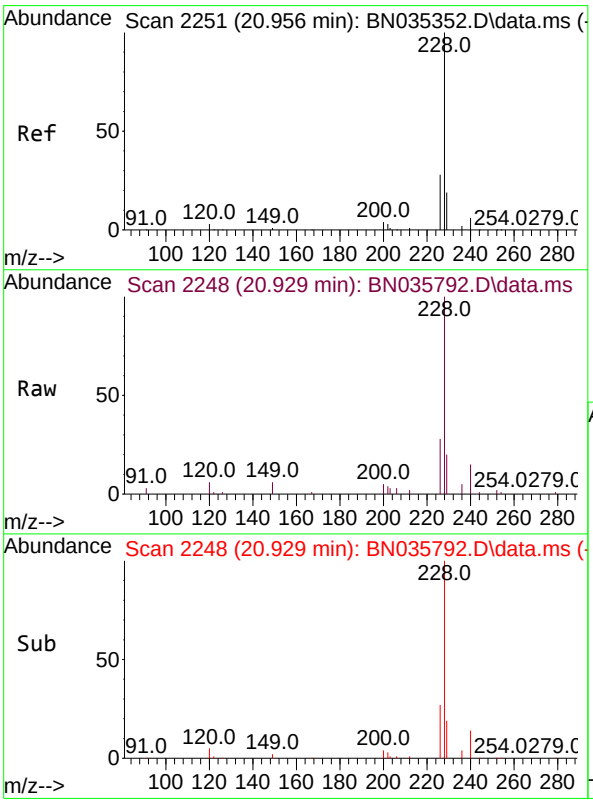
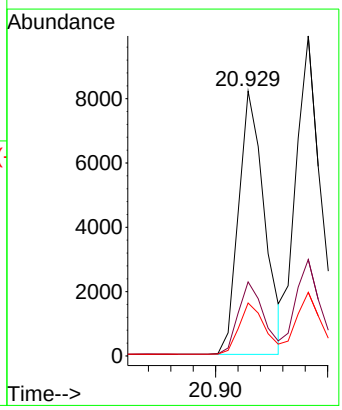
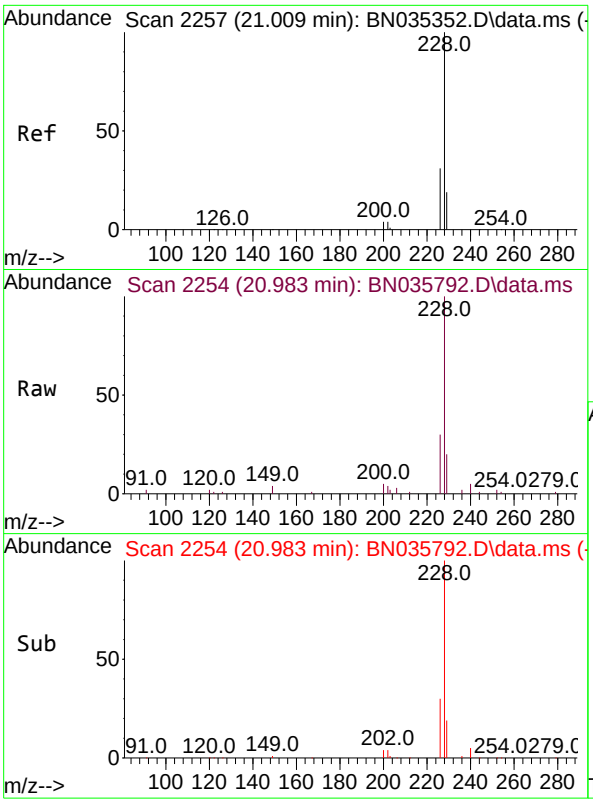


#32
Benzo(a)anthracene
Concen: 0.336 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 13119

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8

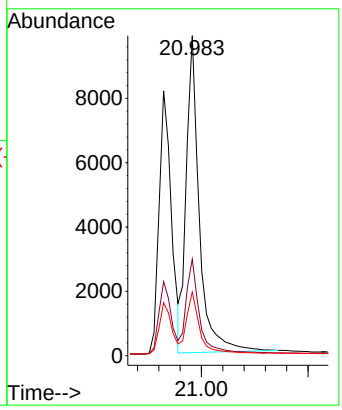




#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 1671

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.9	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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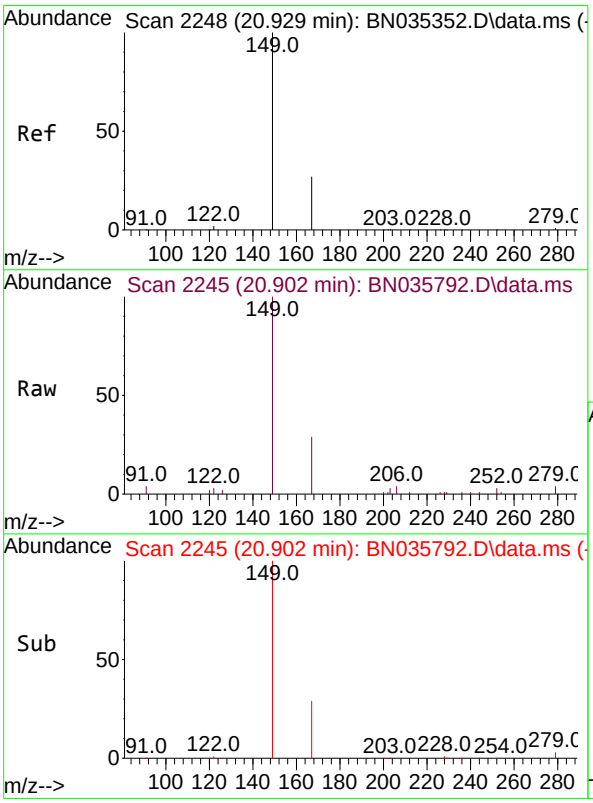
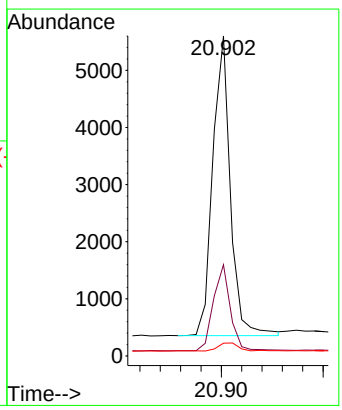
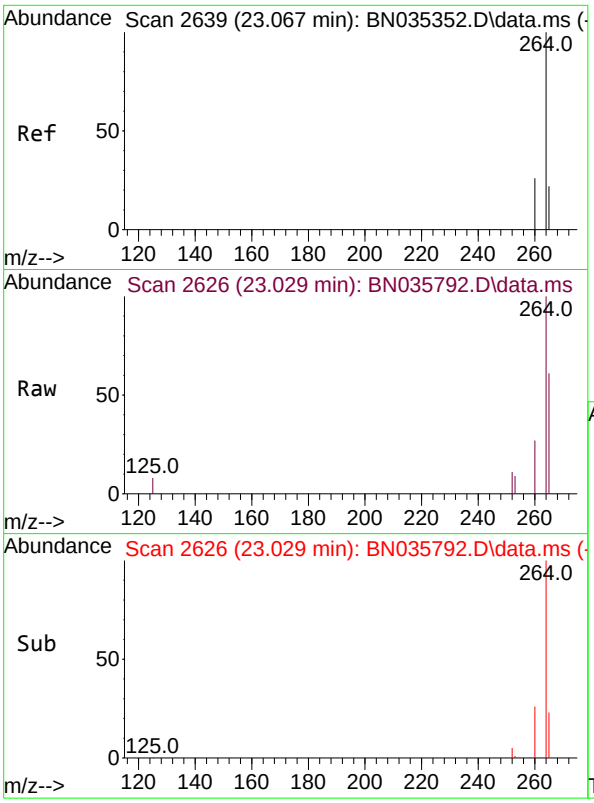


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:149 Resp: 6294

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1

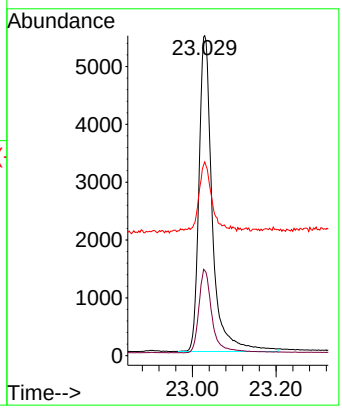




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:264 Resp: 1212

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	60.5	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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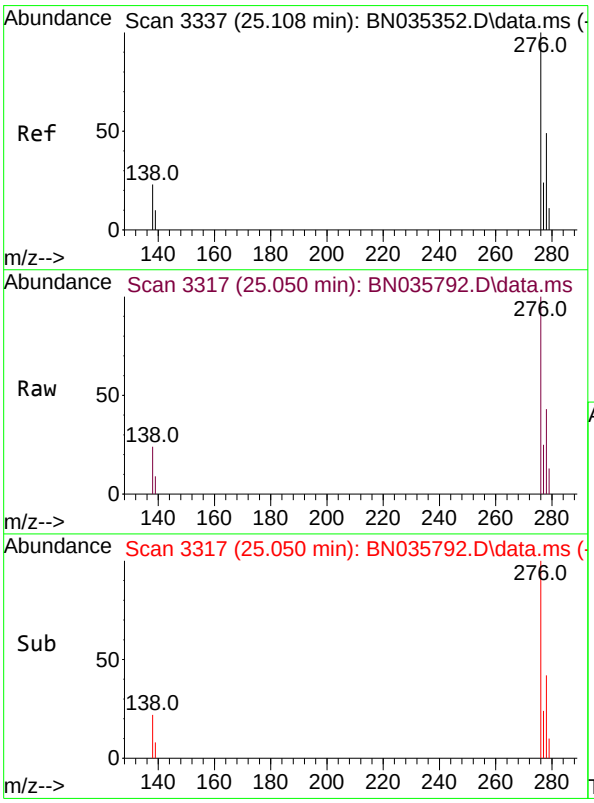
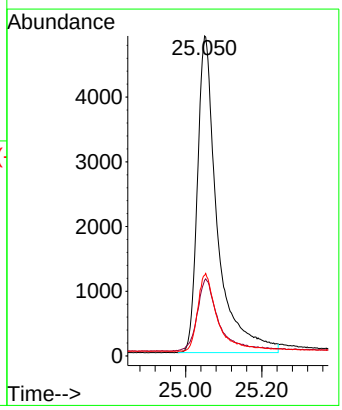
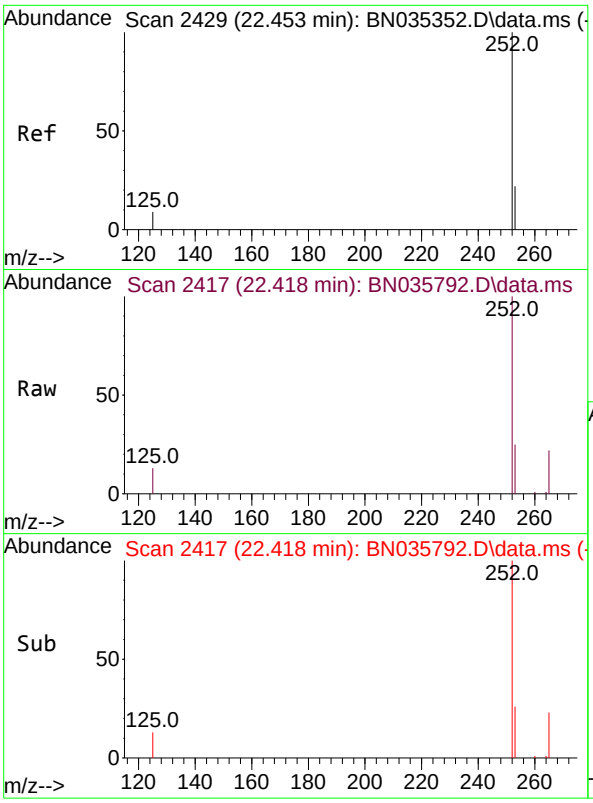


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.2	19.8	29.6





#37
Benzo(b)fluoranthene
Concen: 0.539 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

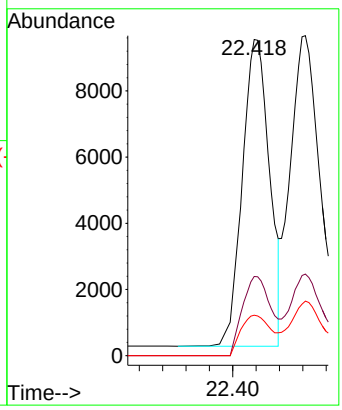
Tgt Ion:252 Resp: 2390

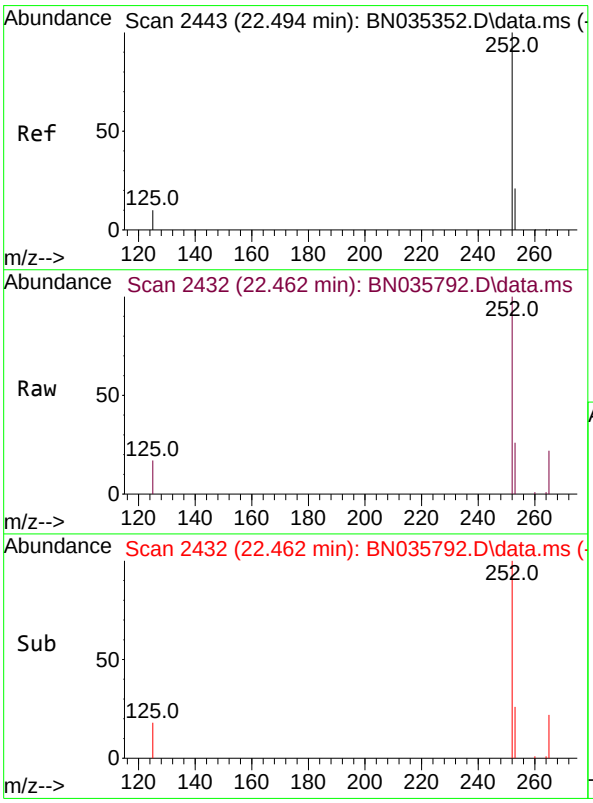
Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.8	9.6	14.4

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

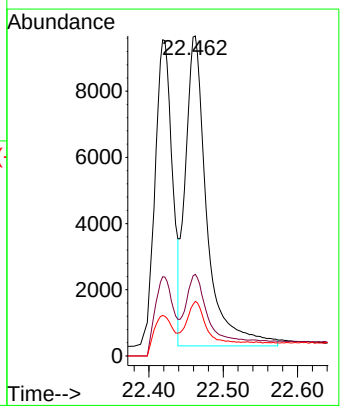


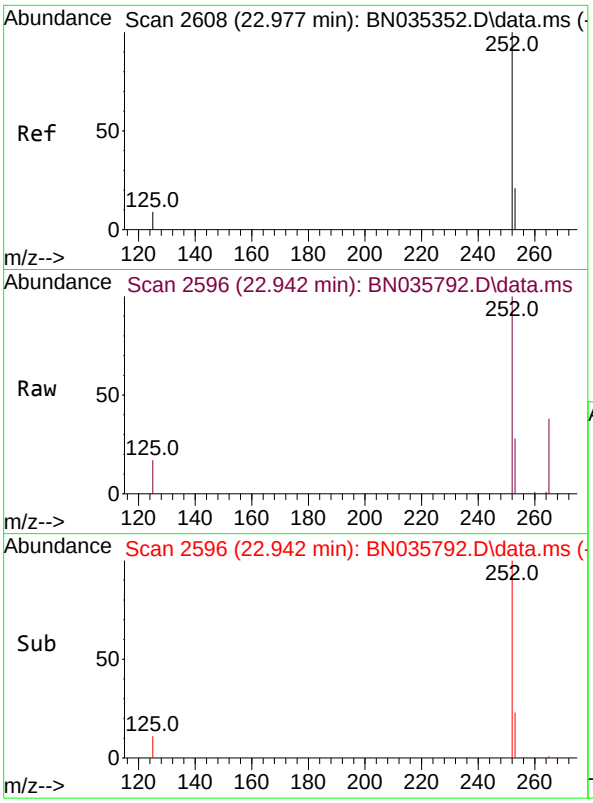


#38
Benzo(k)fluoranthene
Concen: 0.433 ng m
RT: 22.462 min Scan# 2432
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 18914

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.5	29.3
125	17.0	10.2	15.4#

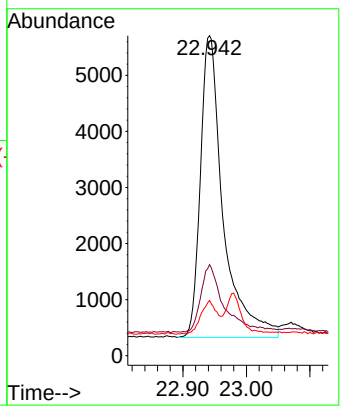




#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 1337

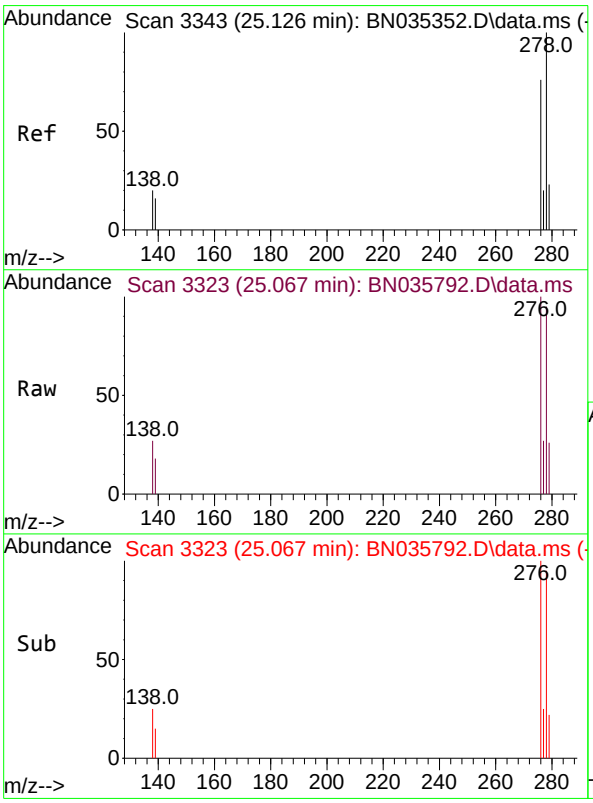
Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	17.2	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

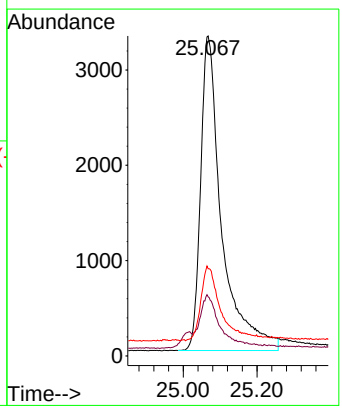
Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

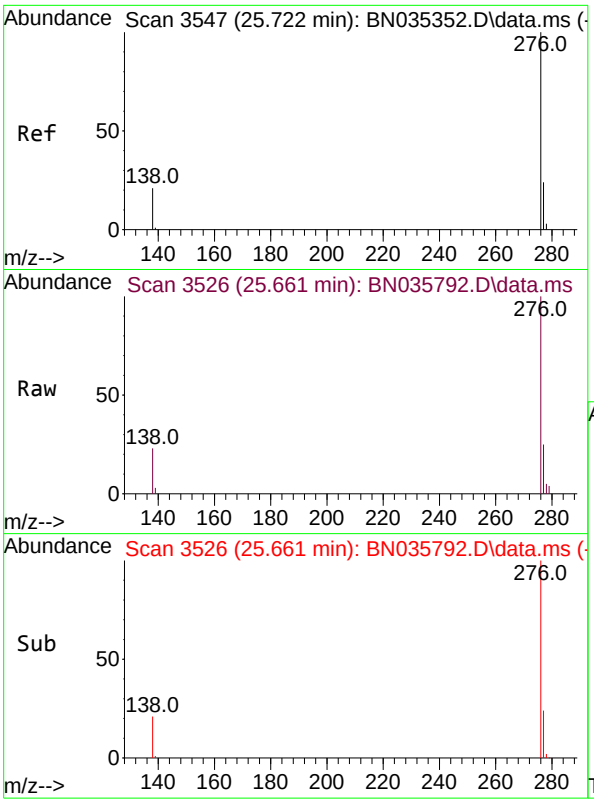


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:278 Resp: 13081

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	27.2	20.5	30.7

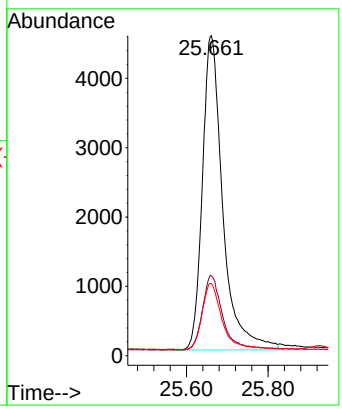




#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 1572

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.9	29.9
138	22.5	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/24/2024
Supervised By :mohammad ahmed 12/26/2024

Sample Results: **BN035792.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 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	227#	0.00
2		1,4-Dioxane	0.382	0.383	-0.3	231#	0.00
3		n-Nitrosodimethylamine	0.319	0.312	2.2	217#	0.00
4	S	2-Fluorophenol	1.001	0.954	4.7	213#	0.00
5	S	Phenol-d6	1.204	1.061	11.9	202#	-0.01
6		bis(2-Chloroethyl)ether	1.012	0.886	12.5	203#	-0.01
7	I	Naphthalene-d8	1.000	1.000	0.0	216#	-0.01
8	S	Nitrobenzene-d5	0.244	0.295	-20.9	272#	-0.01
9		Naphthalene	1.055	1.010	4.3	208#	-0.01
10		Hexachlorobutadiene	0.243	0.264	-8.6	230#	-0.02
11	SURR	2-Methylnaphthalene-d10	0.626	0.557	11.0	195#	-0.01
12		2-Methylnaphthalene	0.755	0.646	14.4	189#	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	174#	-0.01
14	S	2,4,6-Tribromophenol	0.284	0.220	22.5	150	-0.01
15	S	2-Fluorobiphenyl	1.512	1.518	-0.4	175#	-0.01
16		Acenaphthylene	1.680	1.557	7.3	170#	-0.01
17		Acenaphthene	1.115	1.064	4.6	171#	-0.01
18		Fluorene	1.596	1.381	13.5	156#	-0.01
19	I	Phenanthrene-d10	1.000	1.000	0.0	142	0.00
20		4,6-Dinitro-2-methylphenol	0.039	0.033	15.4	131	-0.01
21		4-Bromophenyl-phenylether	0.234	0.218	6.8	136	-0.01
22		Hexachlorobenzene	0.275	0.303	-10.2	158#	-0.01
23		Atrazine	0.167	0.152	9.0	140	0.00
24		Pentachlorophenol	0.120	0.096	20.0	142	-0.01
25		Phenanthrene	1.099	1.016	7.6	135	-0.01
26		Anthracene	0.994	0.870	12.5	131	0.00
27	SURR	Fluoranthene-d10	1.134	0.972	14.3	128	0.00
28		Fluoranthene	1.481	1.249	15.7	125	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30		Pyrene	1.477	1.536	-4.0	122	0.00
31	S	Terphenyl-d14	0.789	0.806	-2.2	120	0.00
32		Benzo(a)anthracene	1.399	1.174	16.1	102	0.00
33		Chrysene	1.443	1.496	-3.7	122	0.00
34		Bis(2-ethylhexyl)phthalate	0.553	0.563	-1.8	128	0.00
35	I	Perylene-d12	1.000	1.000	0.0	112	-0.01
36		Indeno(1,2,3-cd)pyrene	1.564	1.463	6.5	107	-0.02
37		Benzo(b)fluoranthene	1.463	1.972	-34.8#	168#	-0.01
38		Benzo(k)fluoranthene	1.440	1.560	-8.3	124	0.00
39	C	Benzo(a)pyrene	1.205	1.103	8.5	108	0.00
40		Dibenzo(a,h)anthracene	1.234	1.079	12.6	101	-0.01
41		Benzo(g,h,i)perylene	1.289	1.297	-0.6	116	-0.02

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

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN035792.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 24 00:13:11 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	227	0.00
2		1,4-Dioxane	0.400	0.400	0.0	231	0.00
3		n-Nitrosodimethylamine	0.400	0.391	2.3	217	0.00
4	S	2-Fluorophenol	0.400	0.381	4.8	213	0.00
5	S	Phenol-d6	0.400	0.352	12.0	202	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.350	12.5	203	-0.01
7	I	Naphthalene-d8	0.400	0.400	0.0	216	-0.01
8	S	Nitrobenzene-d5	0.400	0.484	-21.0	272	-0.01
9		Naphthalene	0.400	0.383	4.3	208	-0.01
10		Hexachlorobutadiene	0.400	0.433	-8.2	230	-0.02
11	SURR	2-Methylnaphthalene-d10	0.400	0.356	11.0	195	-0.01
12		2-Methylnaphthalene	0.400	0.342	14.5	189	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	174	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.311	22.3	150	-0.01
15	S	2-Fluorobiphenyl	0.400	0.401	-0.3	175	-0.01
16		Acenaphthylene	0.400	0.371	7.3	170	-0.01
17		Acenaphthene	0.400	0.382	4.5	171	-0.01
18		Fluorene	0.400	0.346	13.5	156	-0.01
19	I	Phenanthrene-d10	0.400	0.400	0.0	142	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	131	-0.01
21		4-Bromophenyl-phenylether	0.400	0.372	7.0	136	-0.01
22		Hexachlorobenzene	0.400	0.442	-10.5	158	-0.01
23		Atrazine	0.400	0.366	8.5	140	0.00
24		Pentachlorophenol	0.400	0.321	19.8	142	-0.01
25		Phenanthrene	0.400	0.370	7.5	135	-0.01
26		Anthracene	0.400	0.350	12.5	131	0.00
27	SURR	Fluoranthene-d10	0.400	0.343	14.2	128	0.00
28		Fluoranthene	0.400	0.337	15.8	125	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30		Pyrene	0.400	0.416	-4.0	122	0.00
31	S	Terphenyl-d14	0.400	0.409	-2.2	120	0.00
32		Benzo(a)anthracene	0.400	0.336	16.0	102	0.00
33		Chrysene	0.400	0.415	-3.7	122	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.408	-2.0	128	0.00
35	I	Perylene-d12	0.400	0.400	0.0	112	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	107	-0.02
37		Benzo(b)fluoranthene	0.400	0.539	-34.8#	168	-0.01
38		Benzo(k)fluoranthene	0.400	0.433	-8.2	124	0.00
39	C	Benzo(a)pyrene	0.400	0.366	8.5	108	0.00
40		Dibenzo(a,h)anthracene	0.400	0.350	12.5	101	-0.01
41		Benzo(g,h,i)perylene	0.400	0.402	-0.5	116	-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.: P5314 SAS No.: P5314 SDG No.: P5314

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.

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 12/30/2024

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

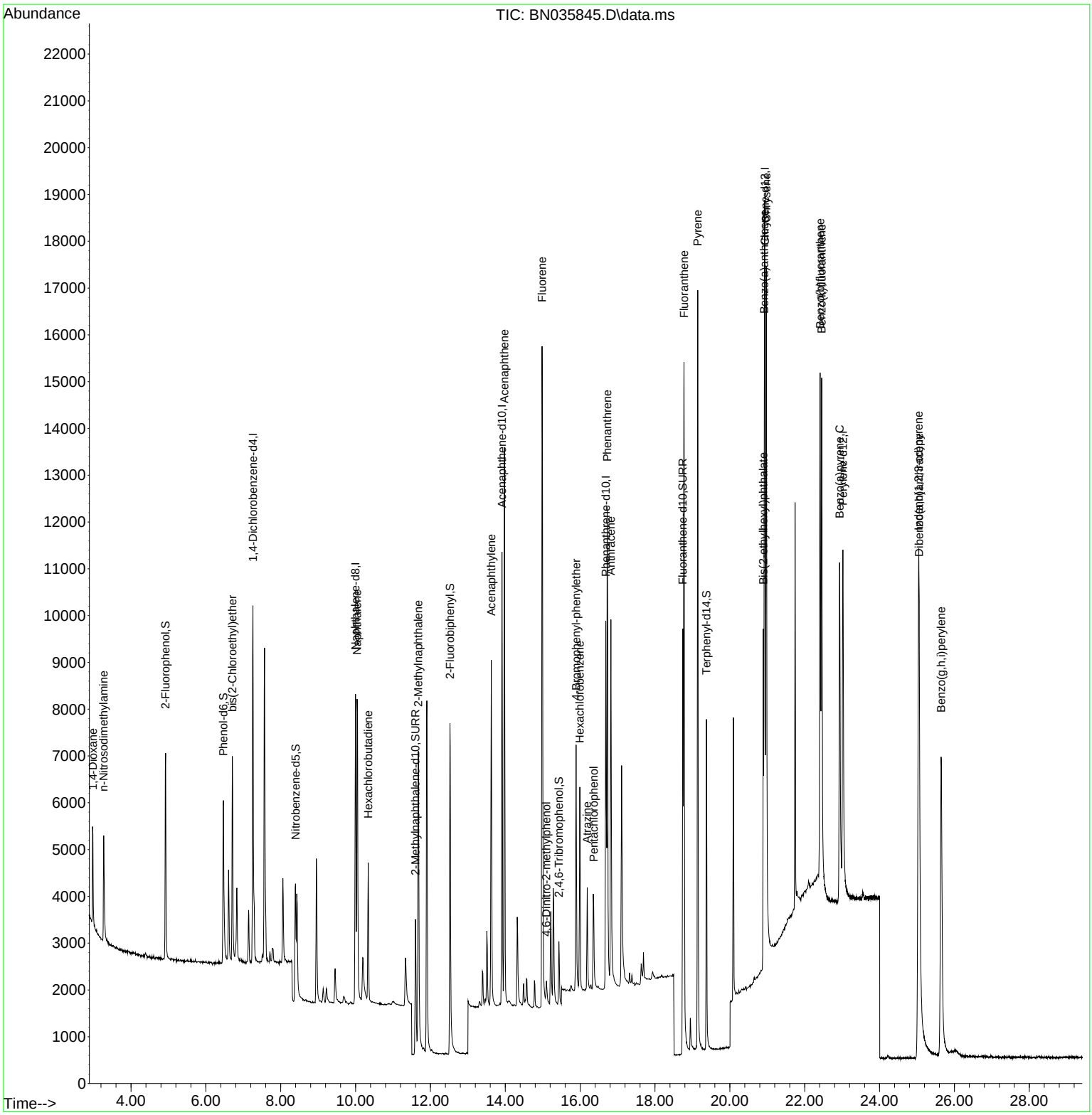
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035845.D
Acq On : 26 Dec 2024 09:58
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

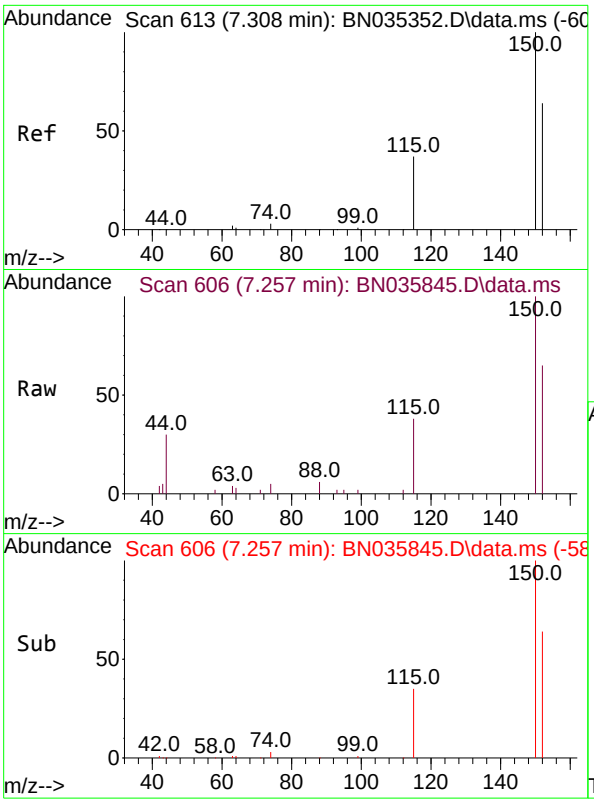
Quant Time: Dec 27 00:40:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

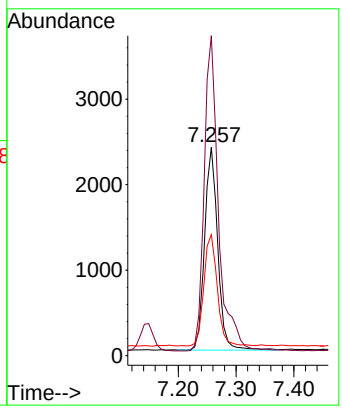




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:152 Resp: 375

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



Instrument :
BNA_N
ClientSampleId :
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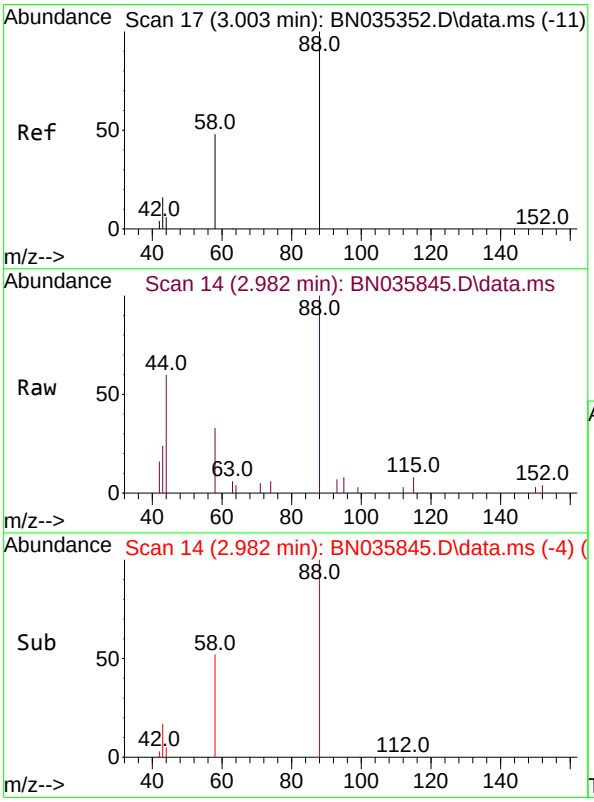
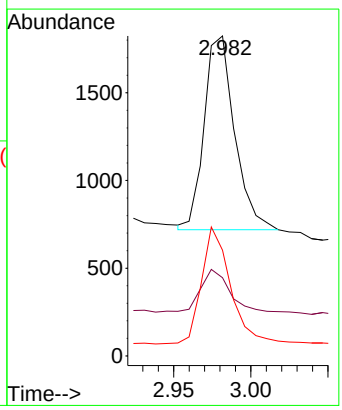
Supervised By :mohammad ahmed 12/30/2024

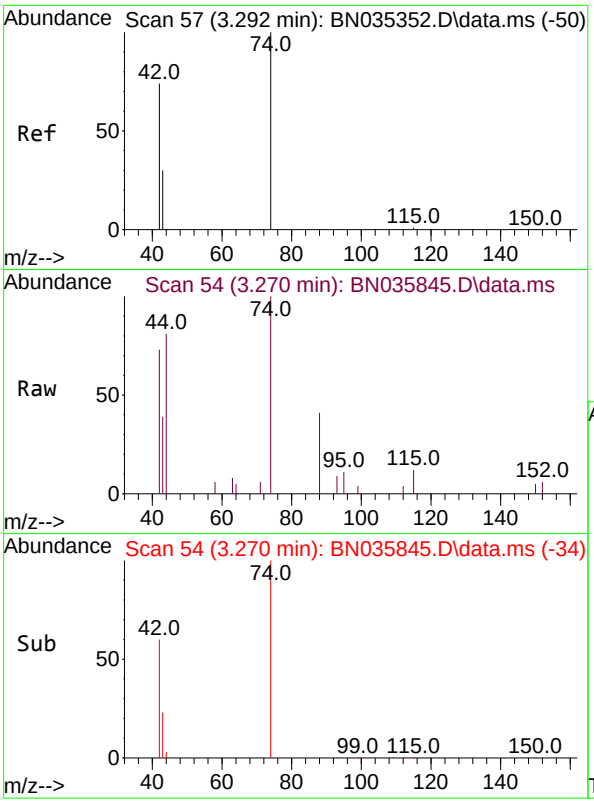


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

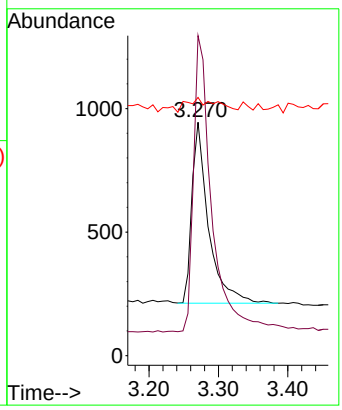




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
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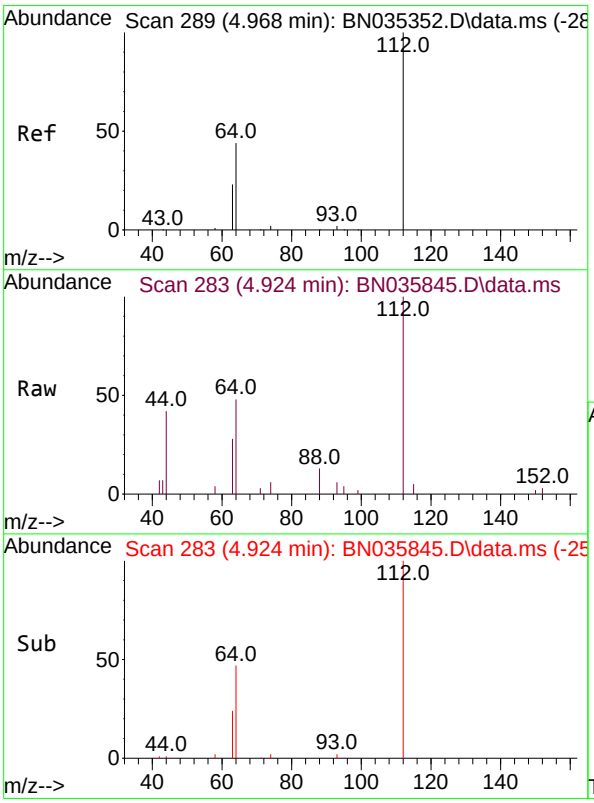
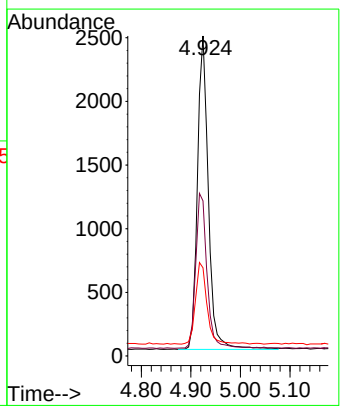
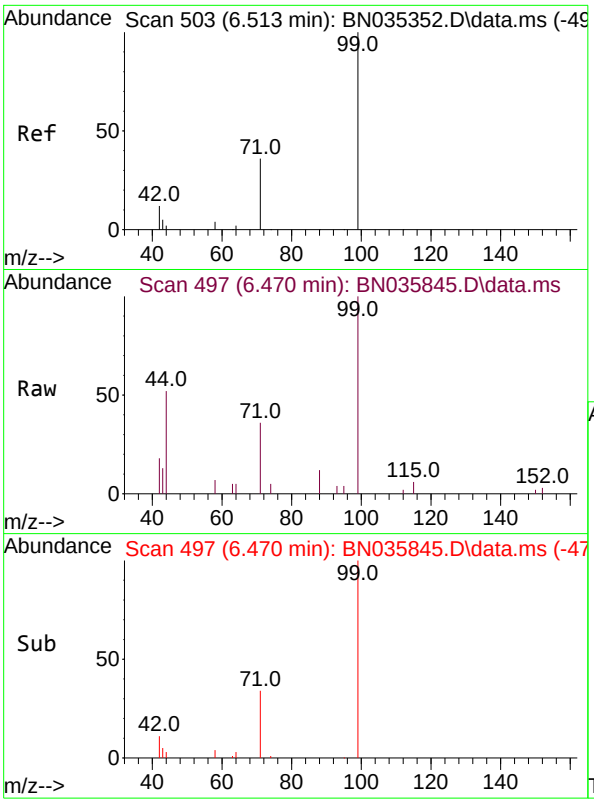


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

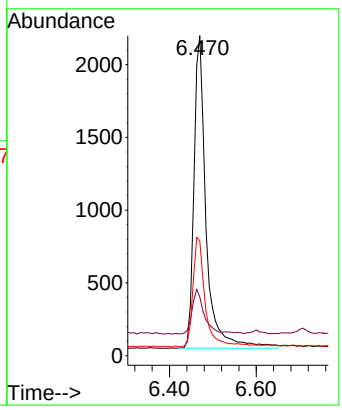




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
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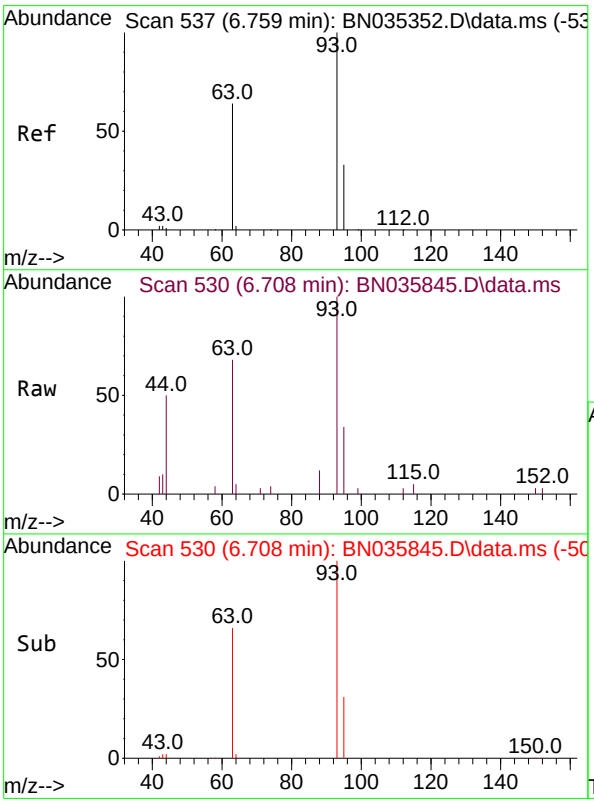
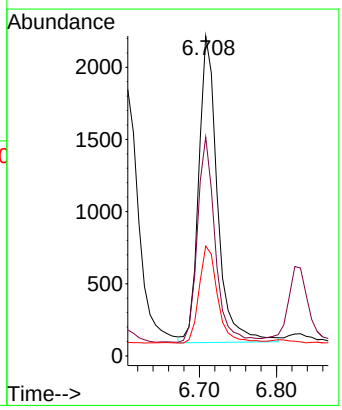
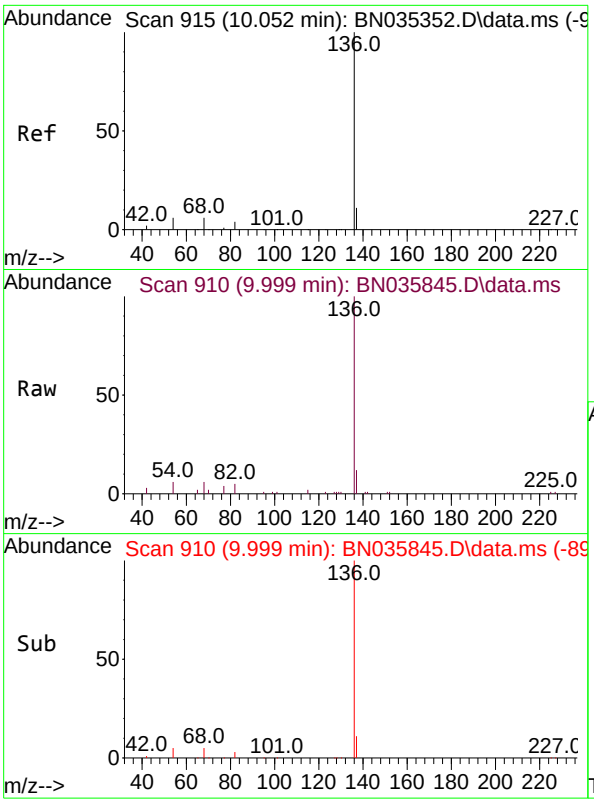


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

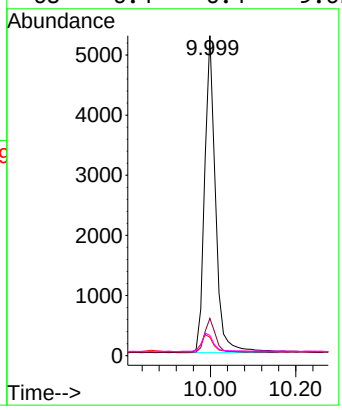




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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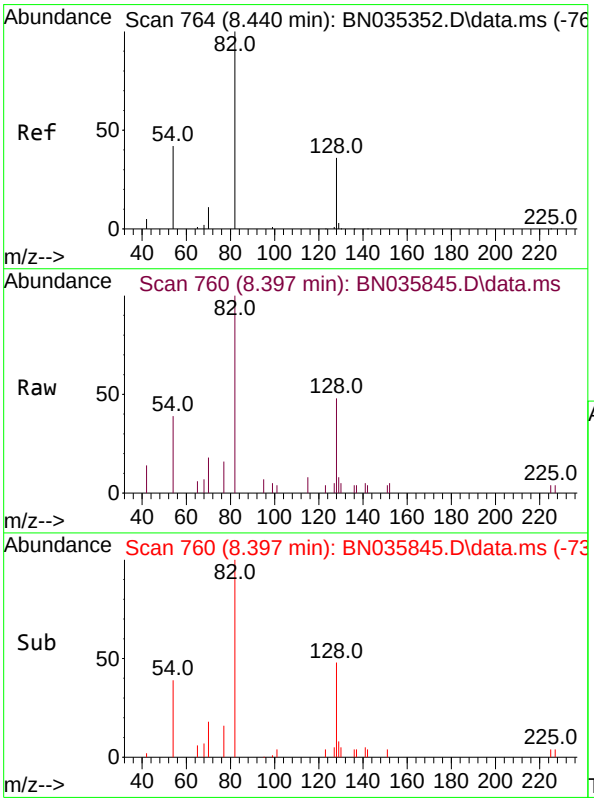
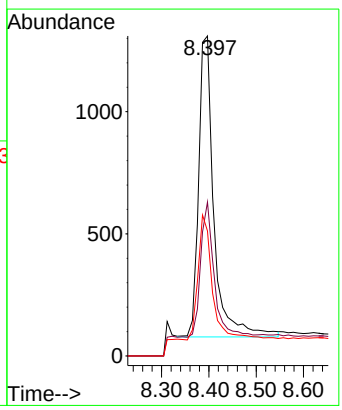
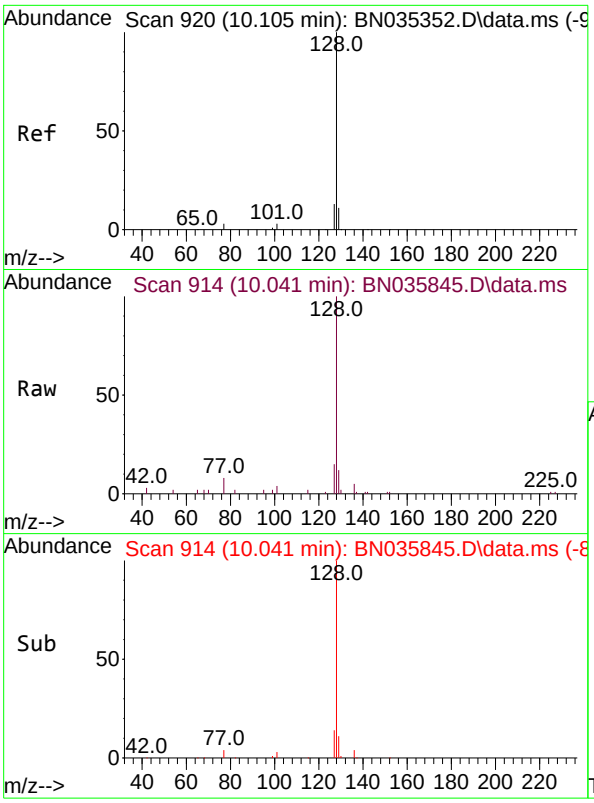


#8
Nitrobenzene-d5
Concen: 0.488 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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





#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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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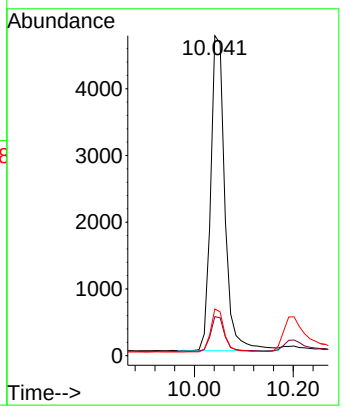
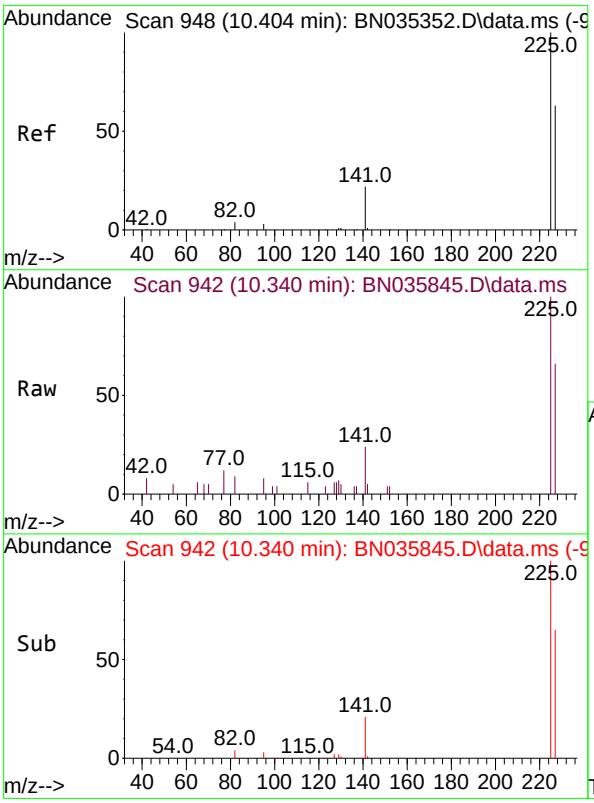
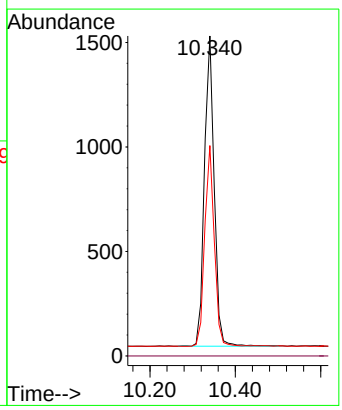


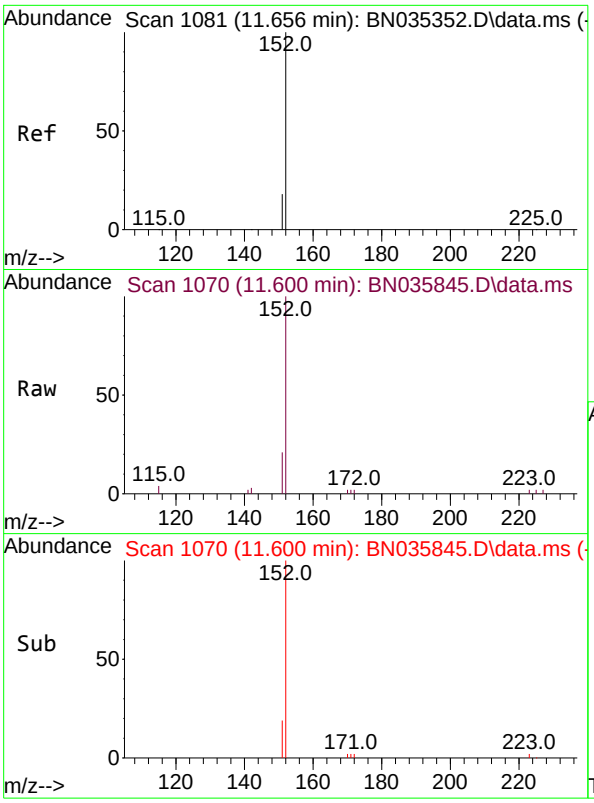


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

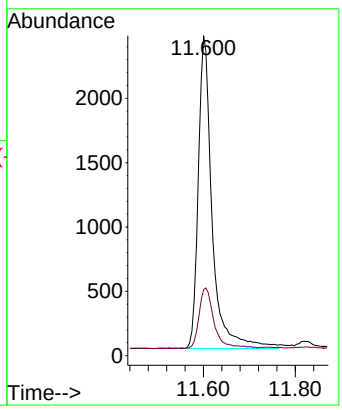




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1(
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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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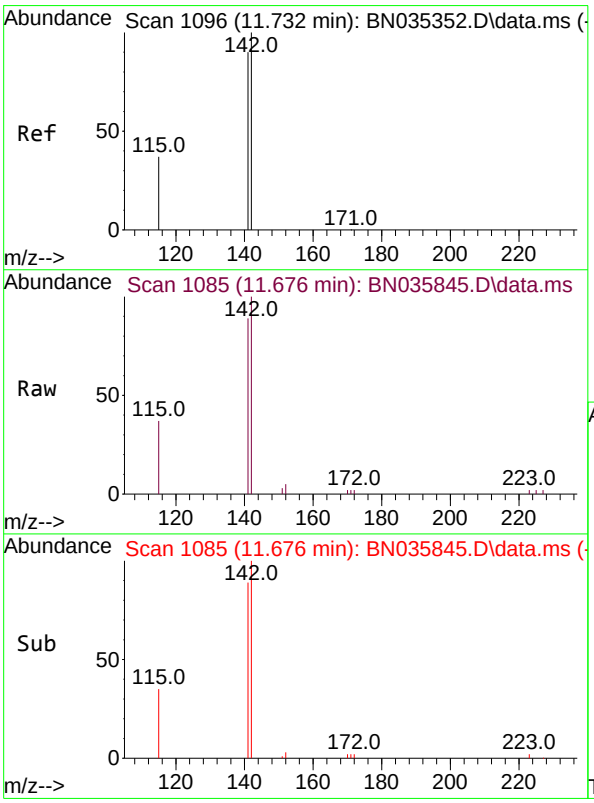
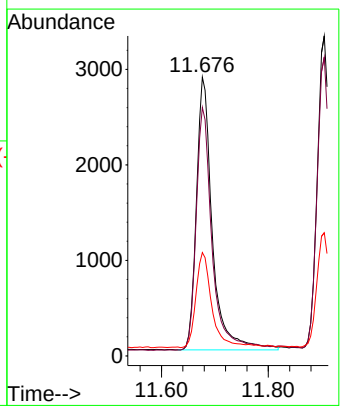
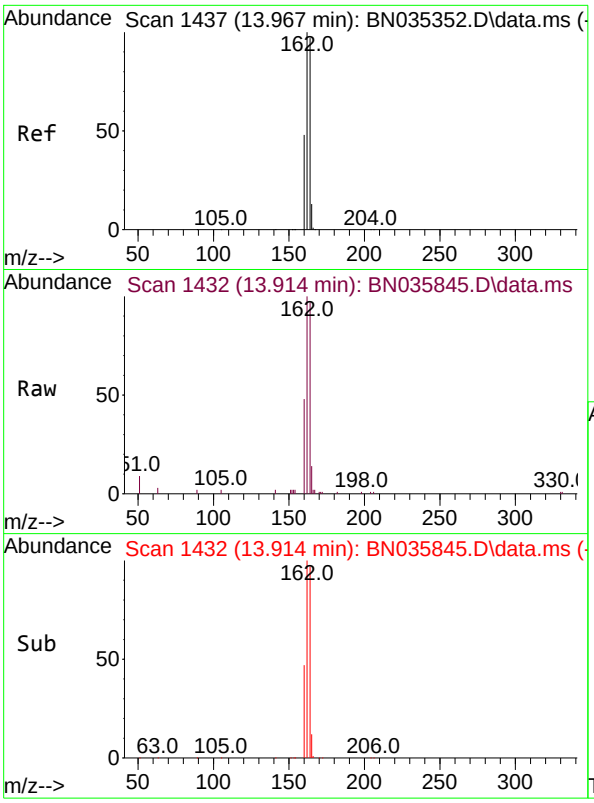


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

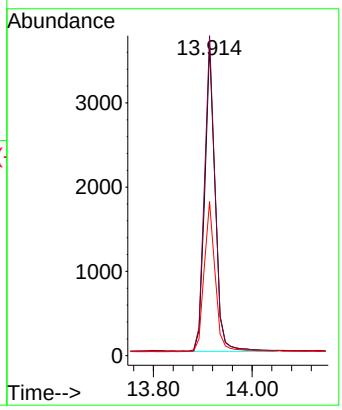




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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
ClientSampleId :
SSTDCCC0.4

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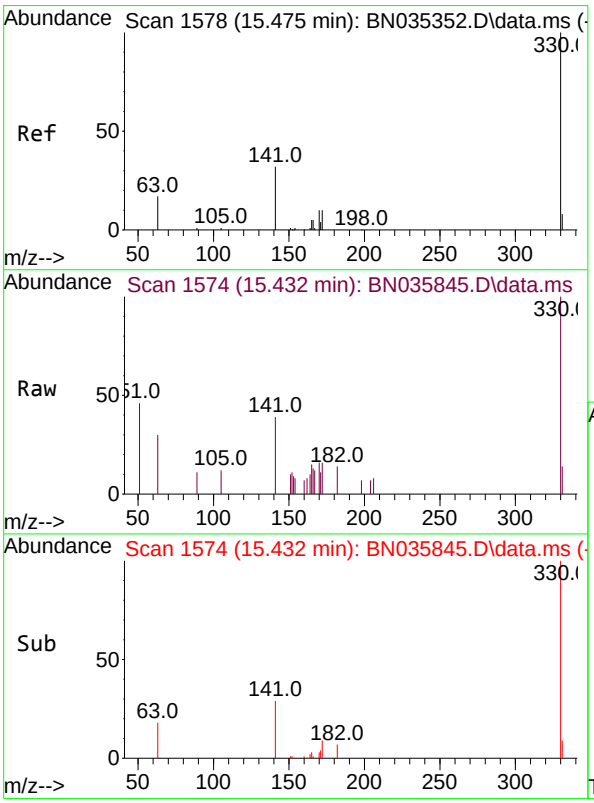
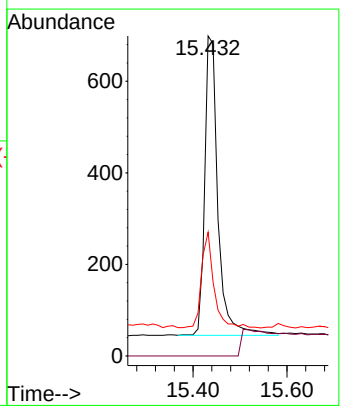
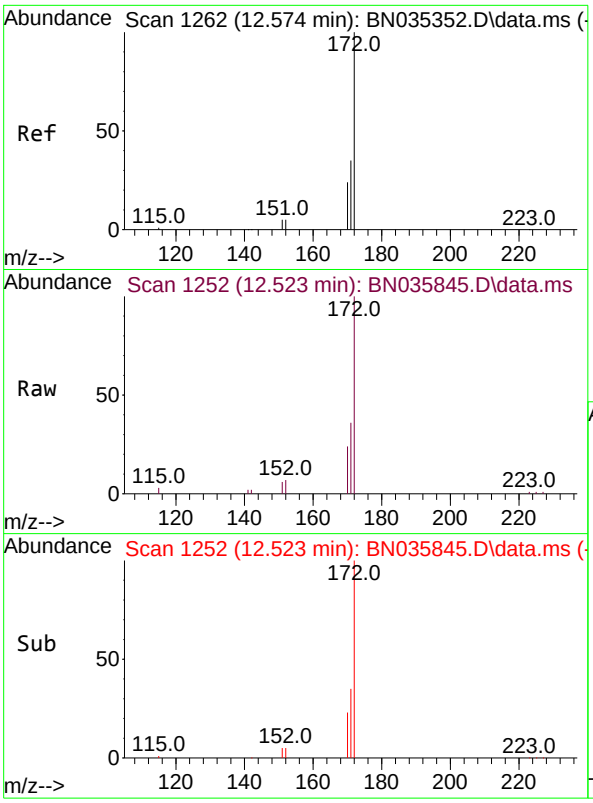


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

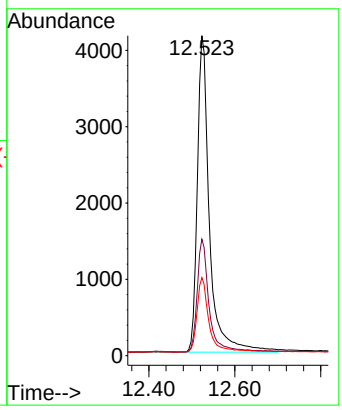




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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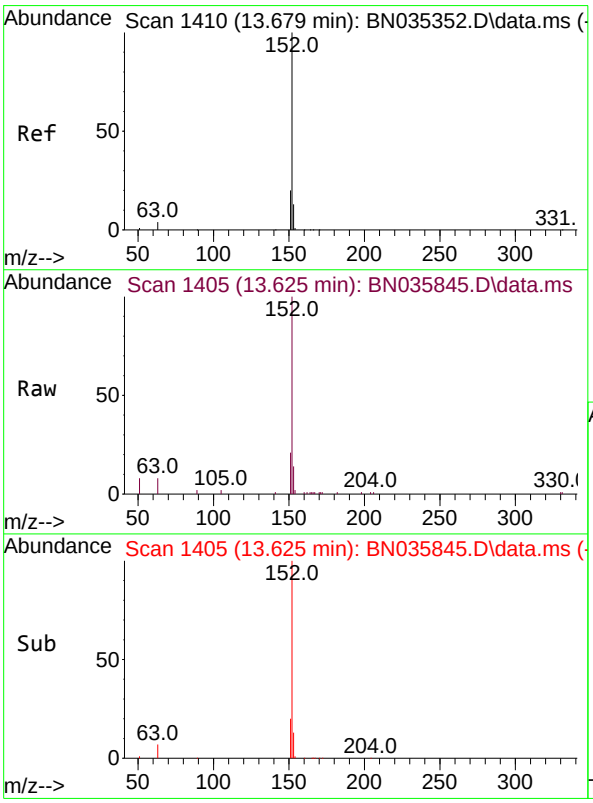
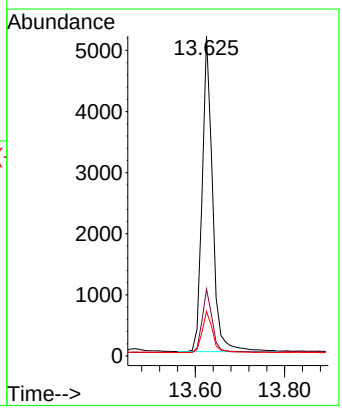
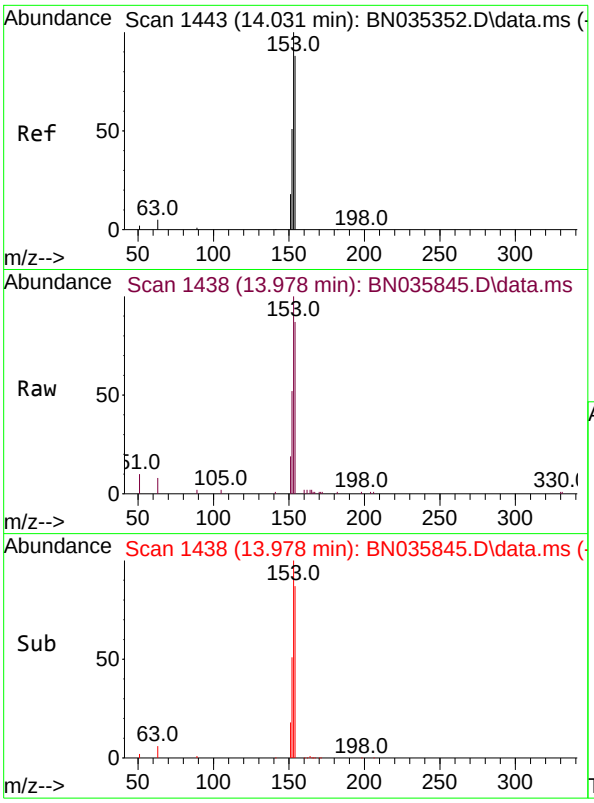


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

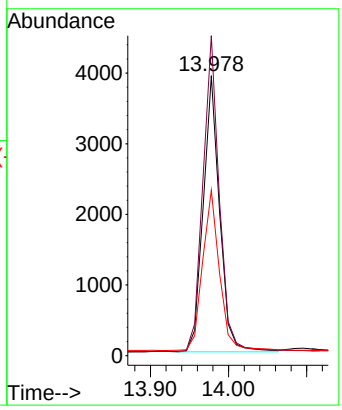




#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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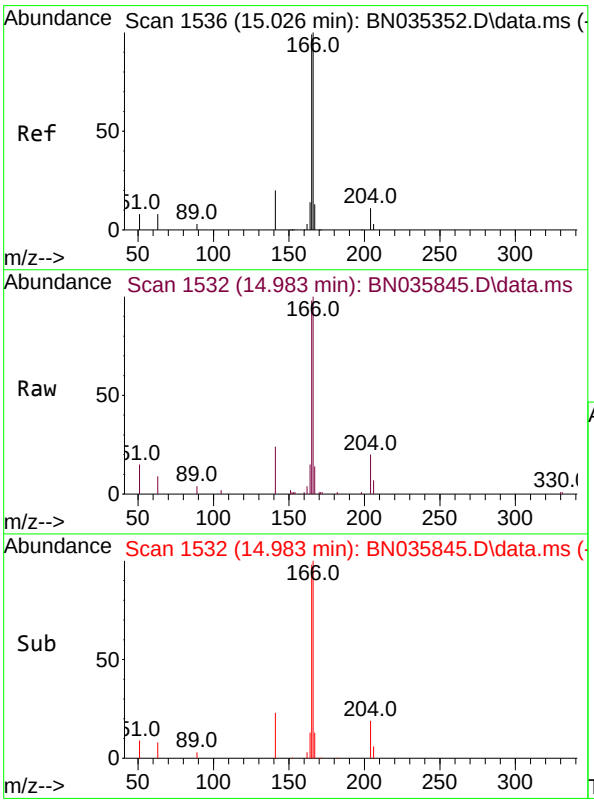
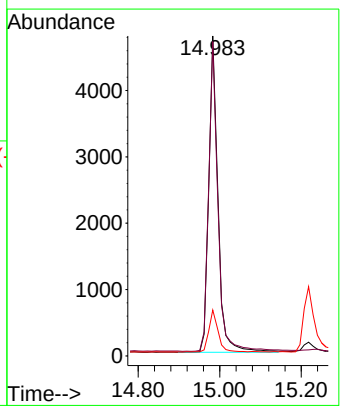
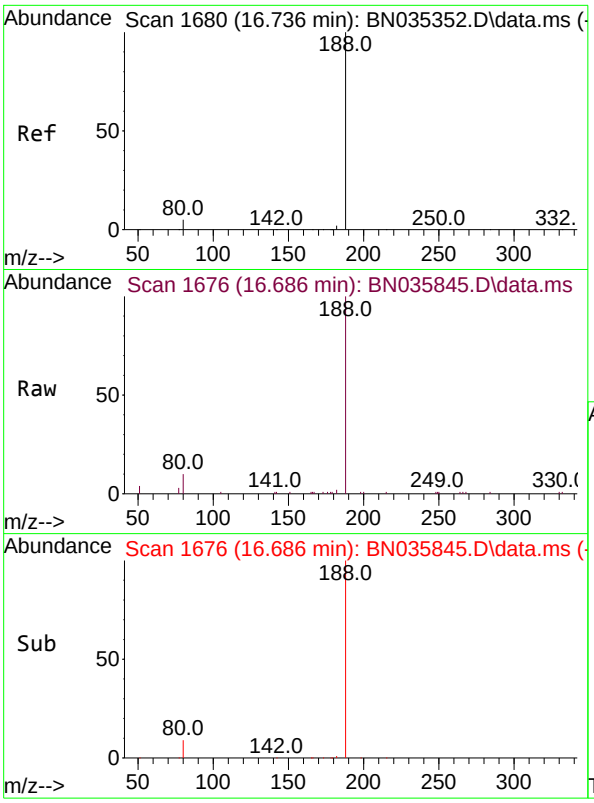


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

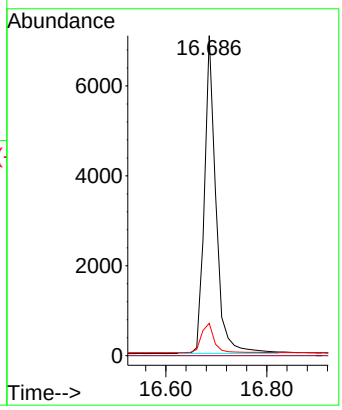




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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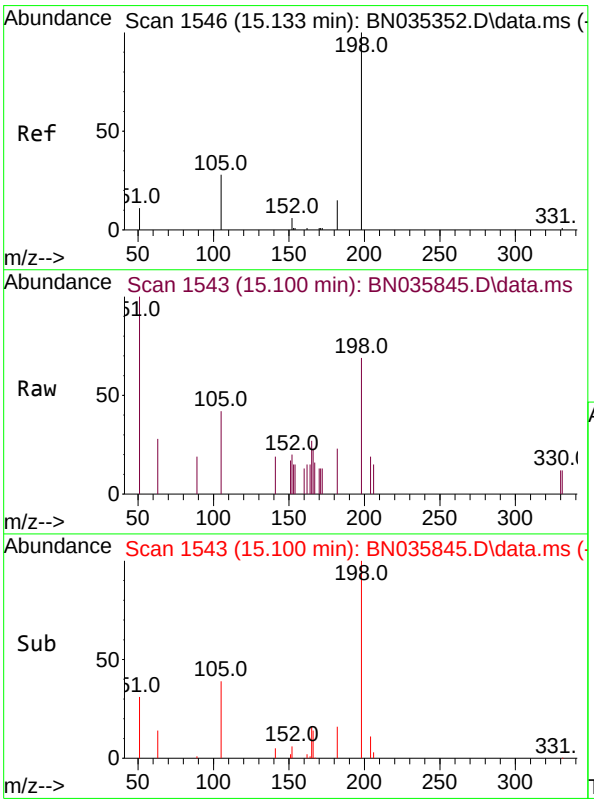
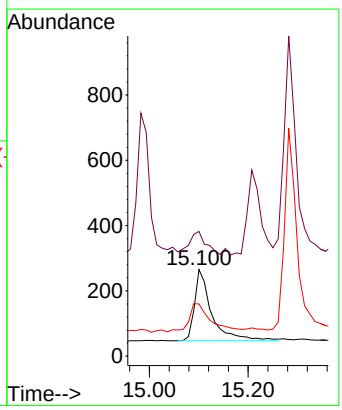
Supervised By :mohammad ahmed 12/30/2024

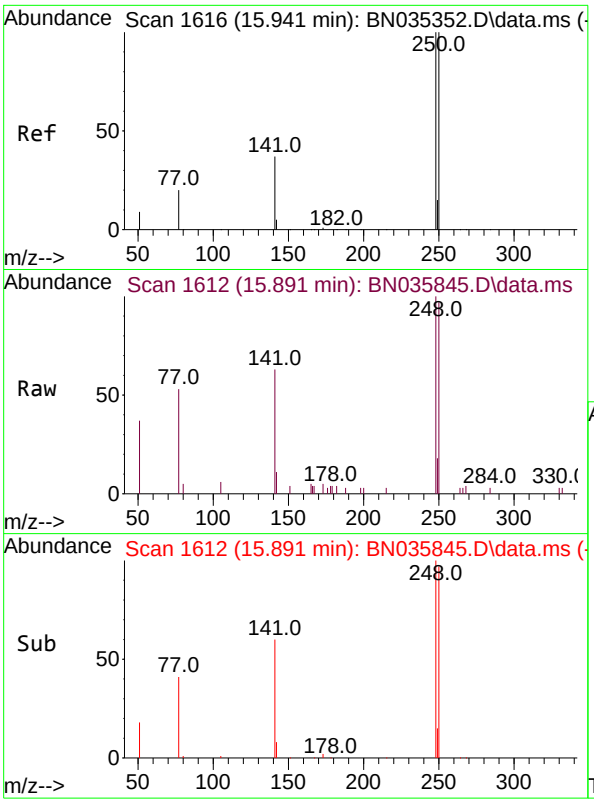


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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 :
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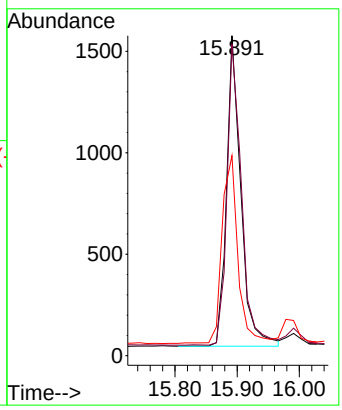
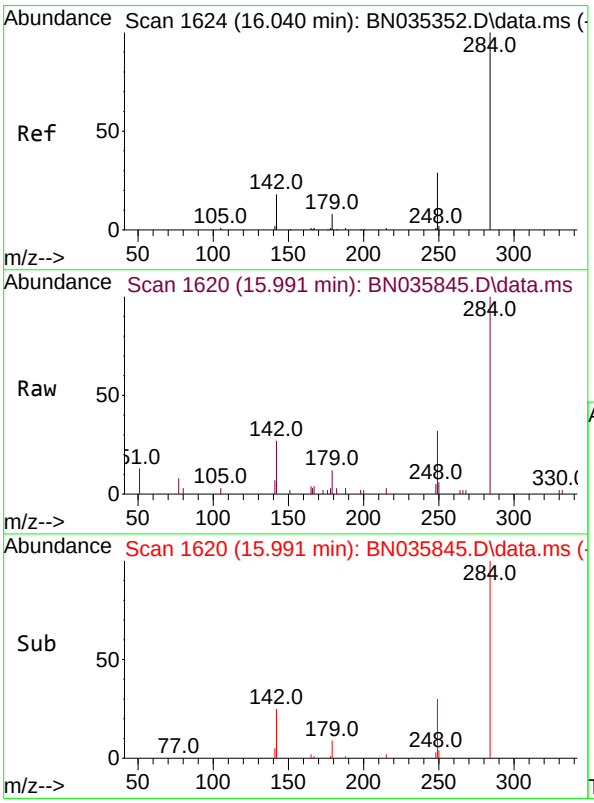
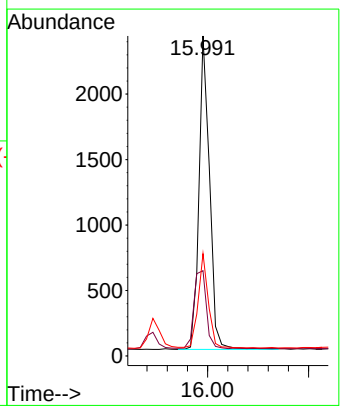


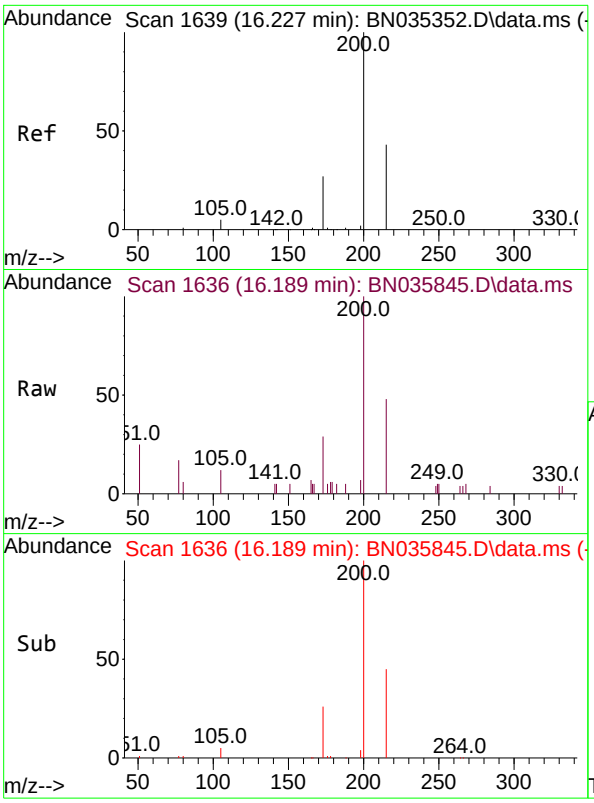


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

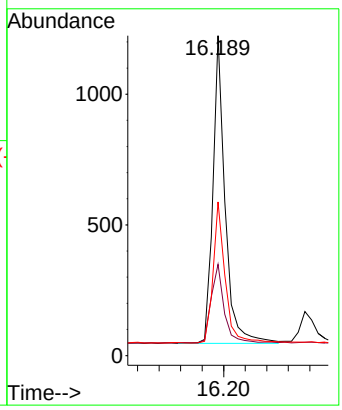




#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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 :
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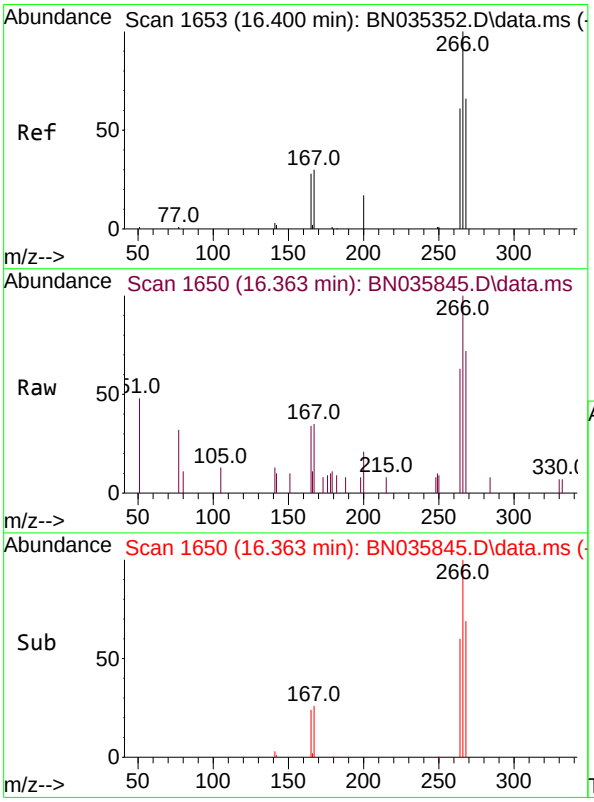
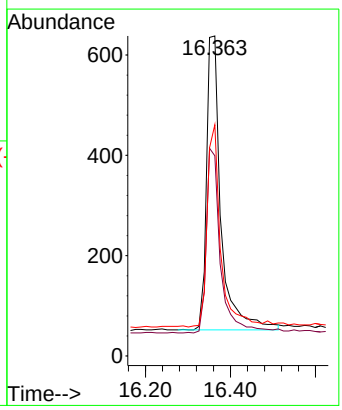
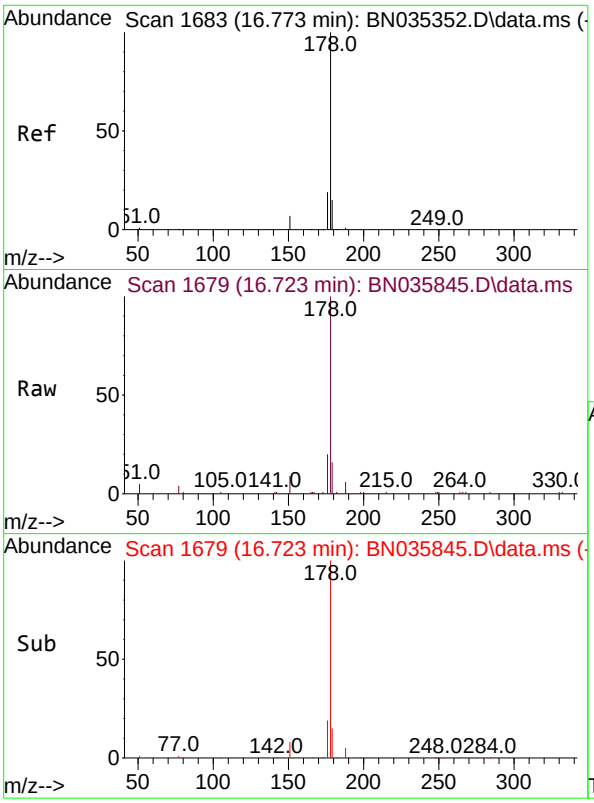


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

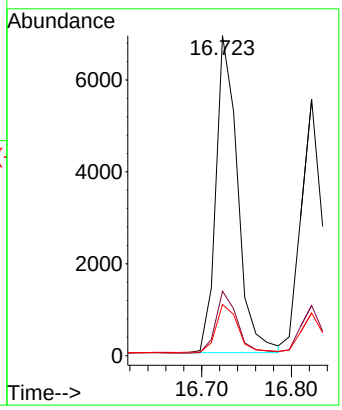




#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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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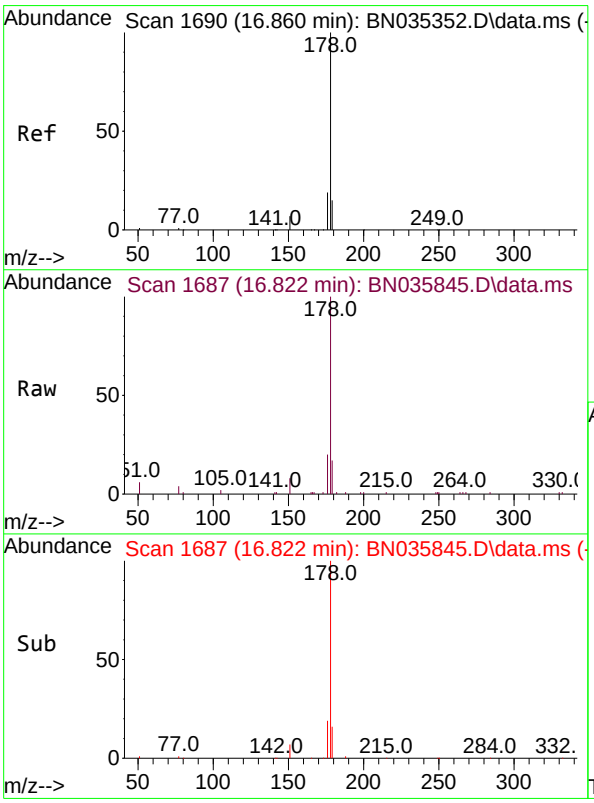
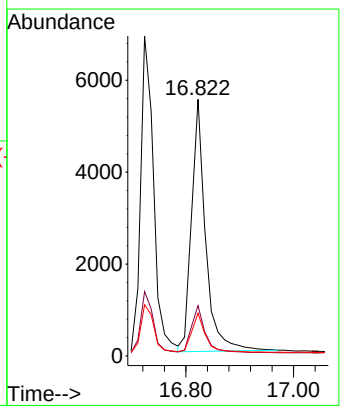
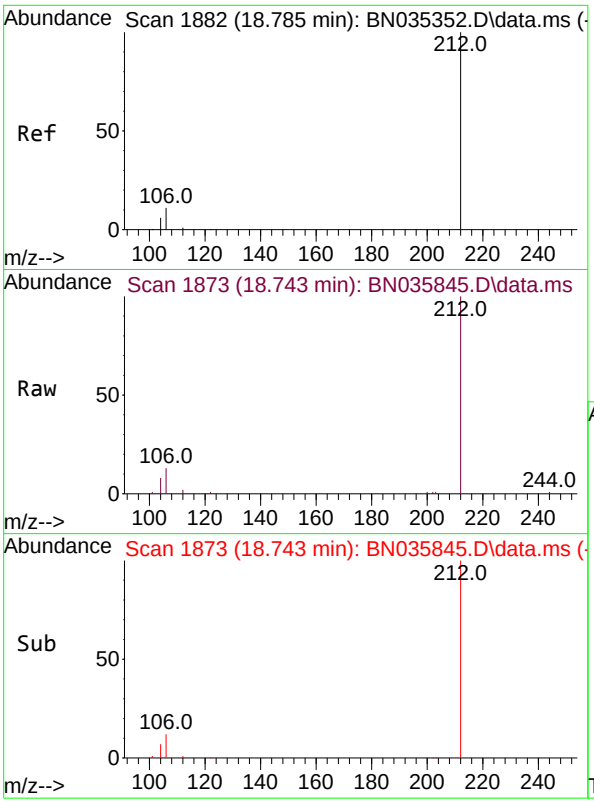


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

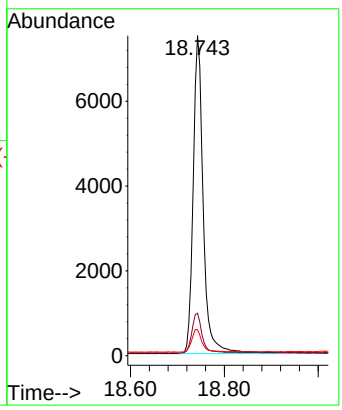




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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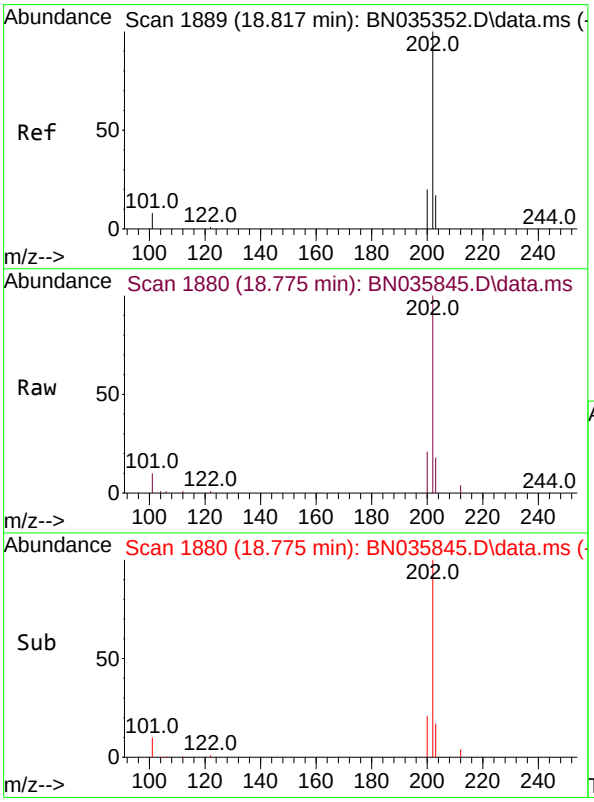
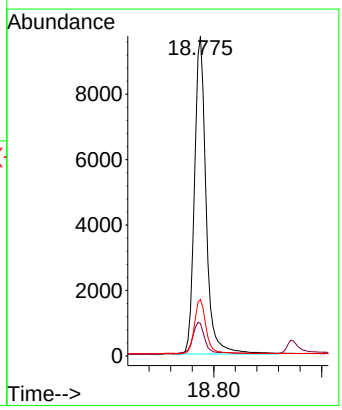
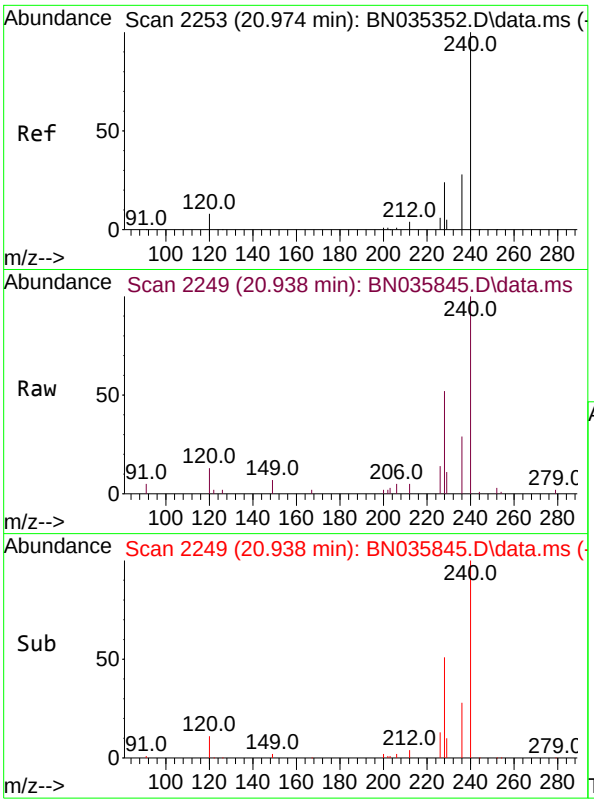


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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: 993

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

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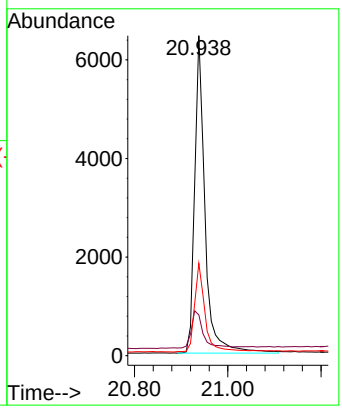
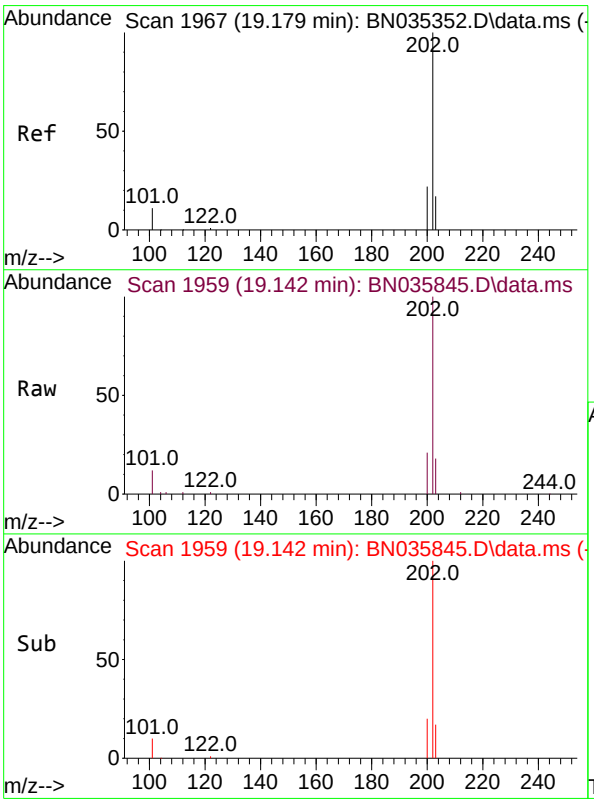
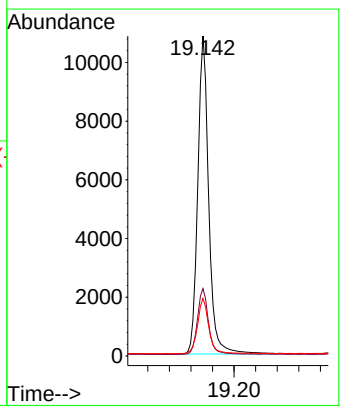


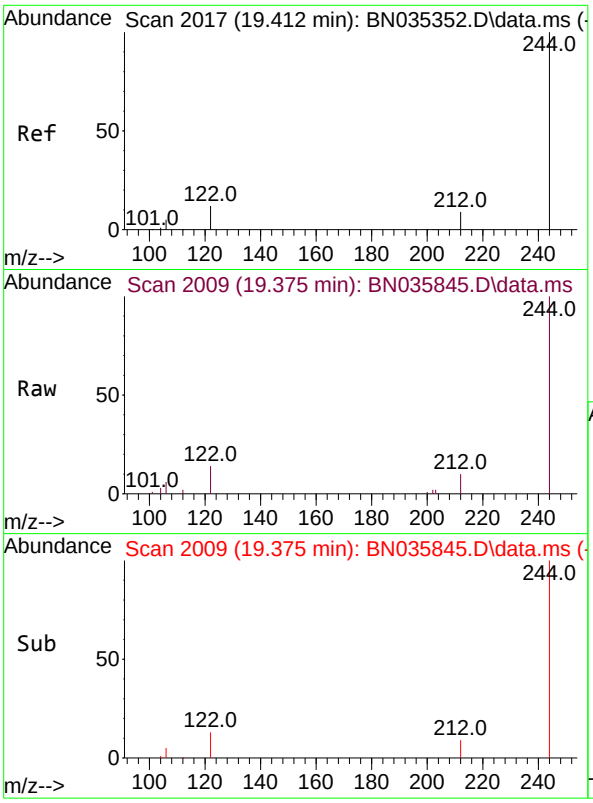


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

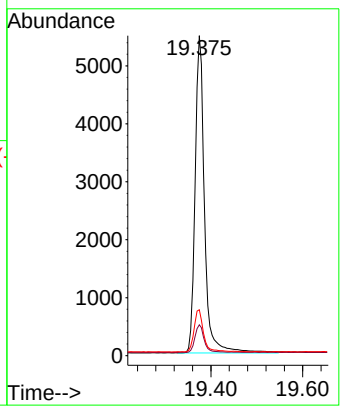




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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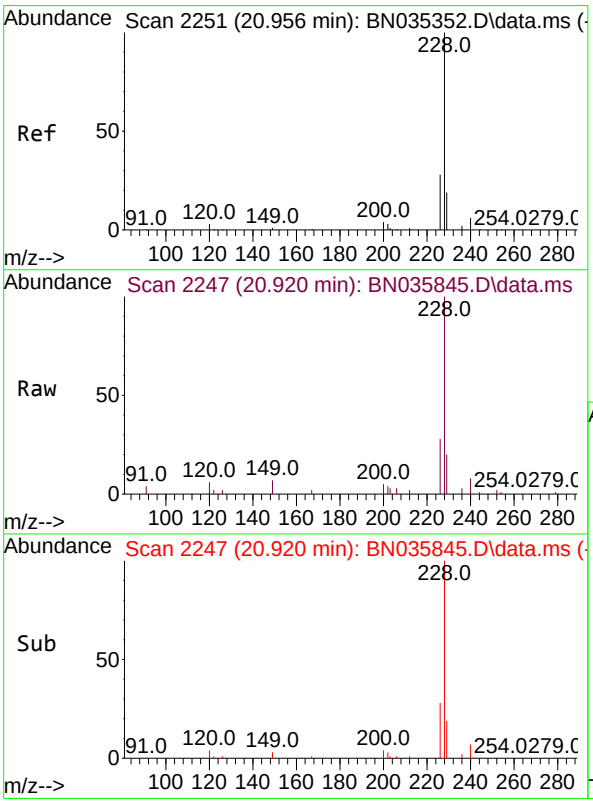
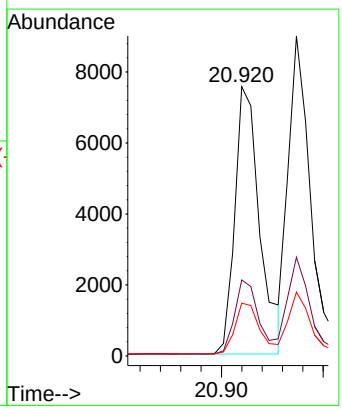
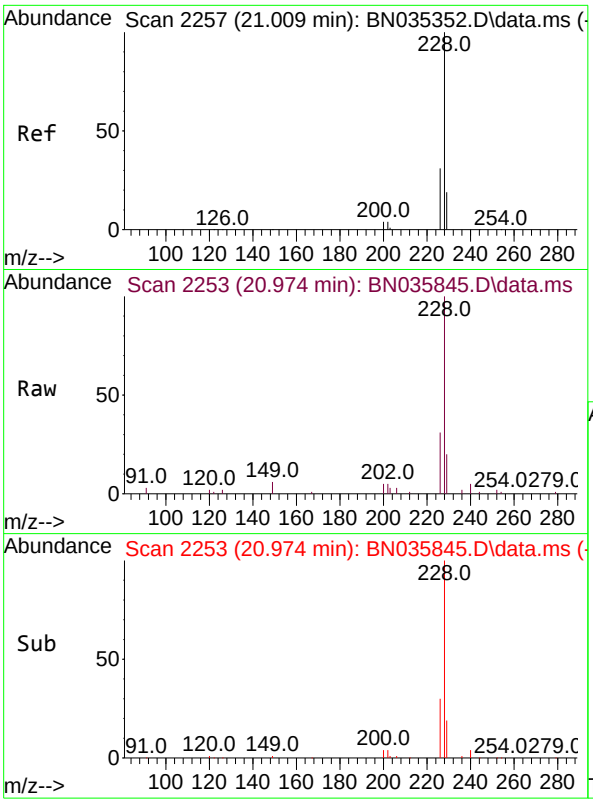


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

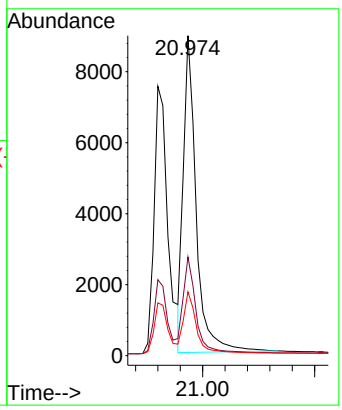




#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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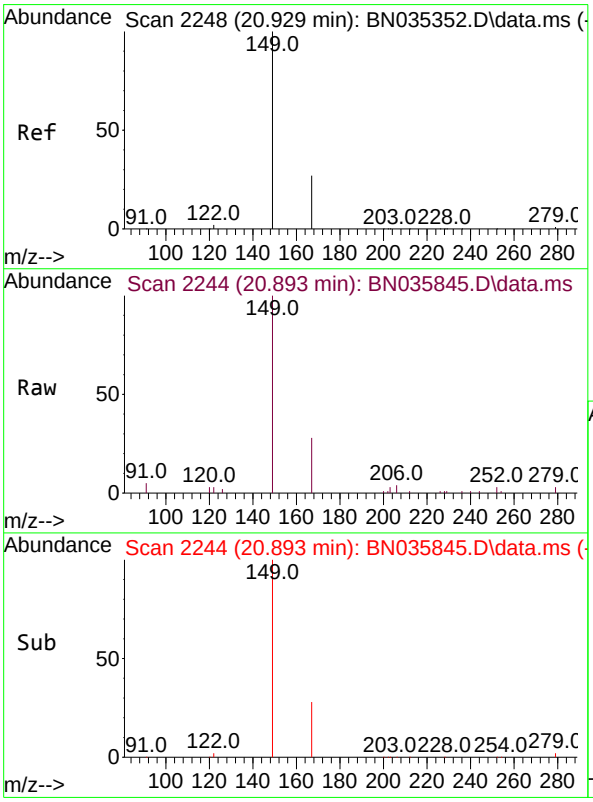
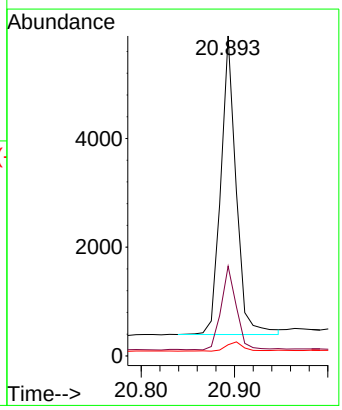
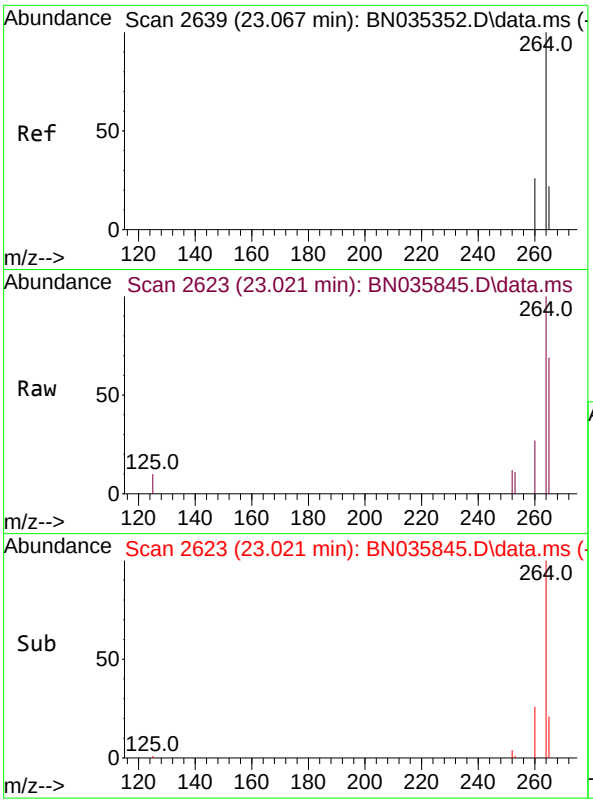


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

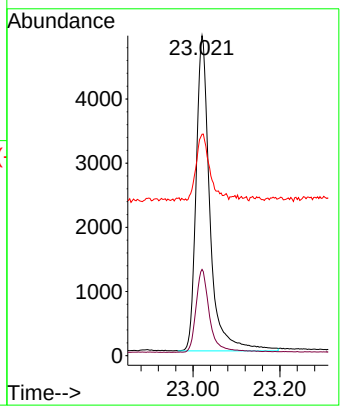




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

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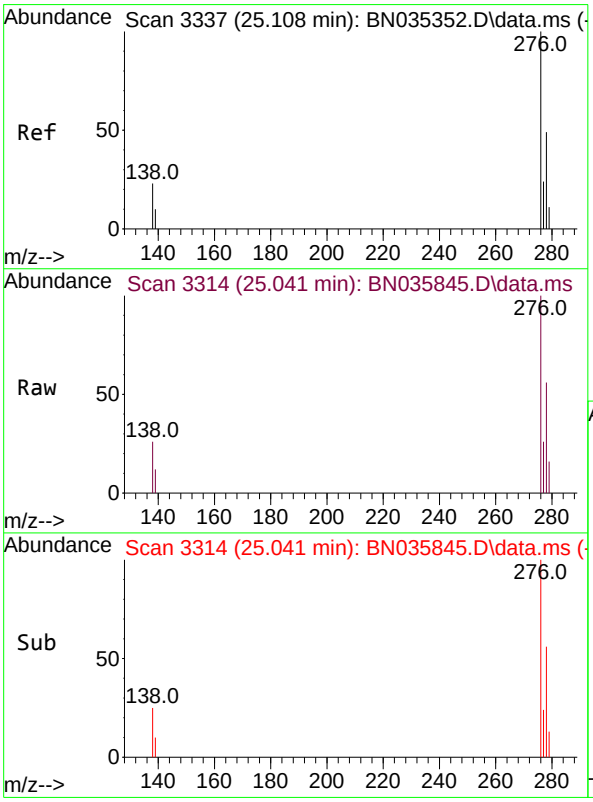
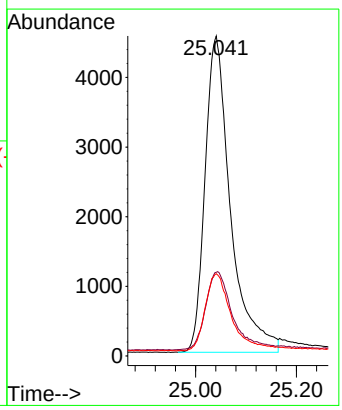
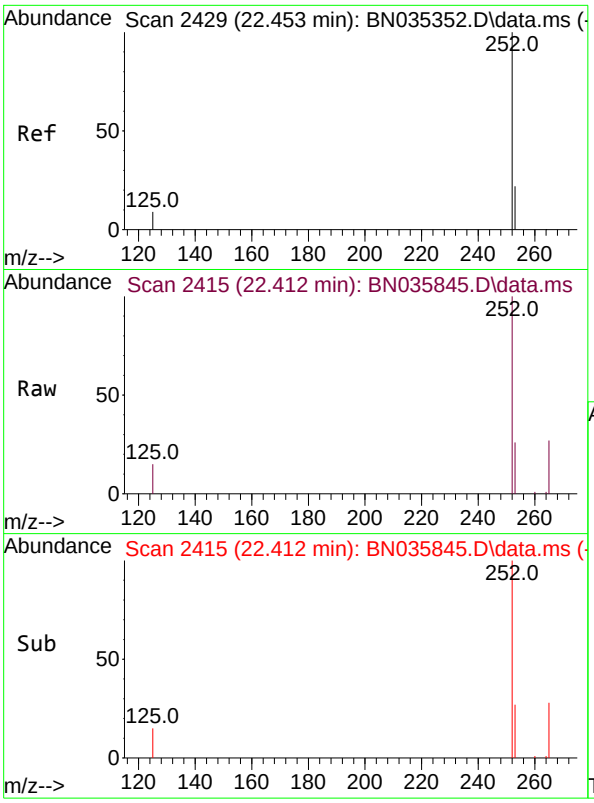


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

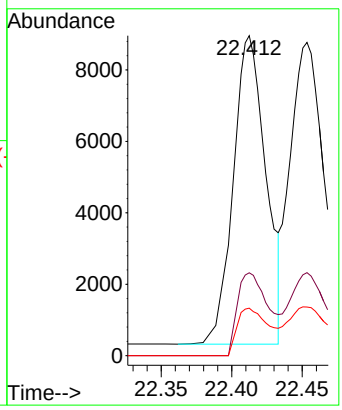




#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

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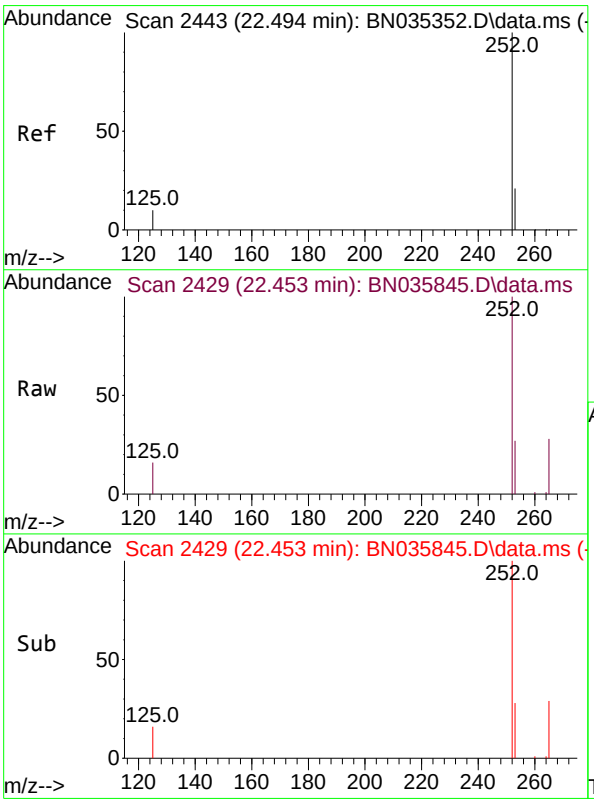
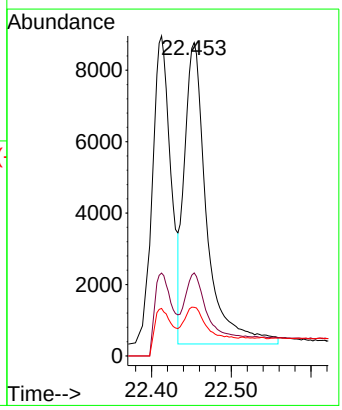
Supervised By :mohammad ahmed 12/30/2024

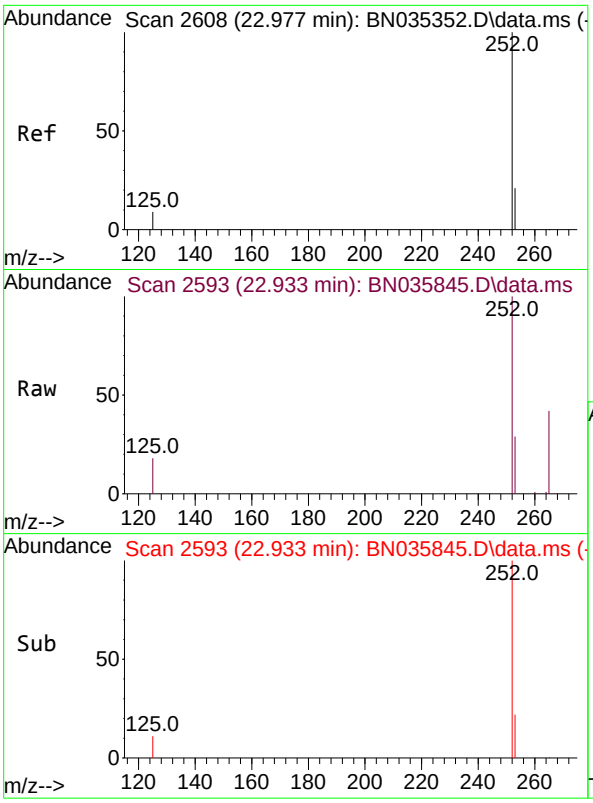


#38
Benzo(k)fluoranthene
Concen: 0.423 ng m
RT: 22.453 min Scan# 2429
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

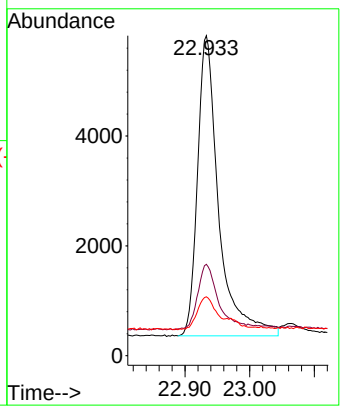




#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Tgt Ion:252 Resp: 1245

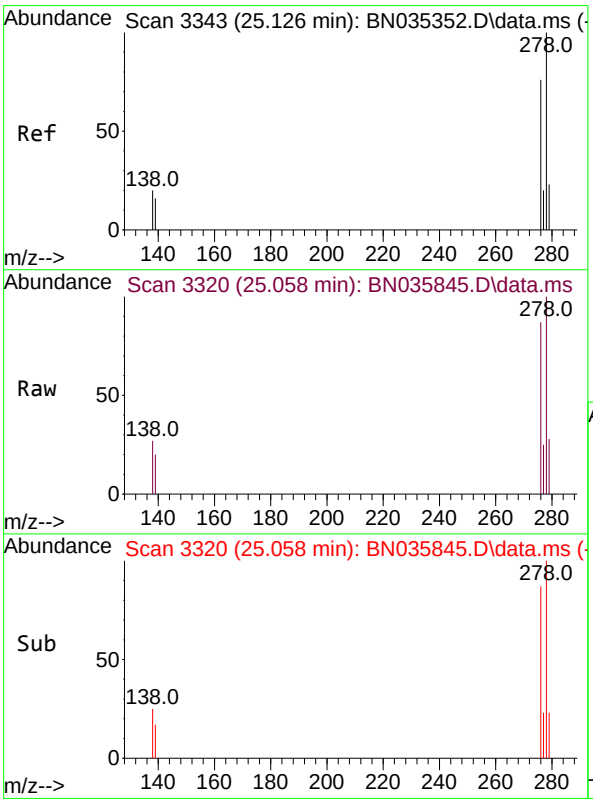
Ion	Ratio	Lower	Upper
252	100		
253	28.6	20.2	30.4
125	18.4	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Manual Integrations
APPROVED

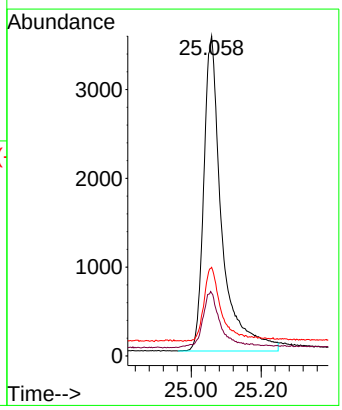
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

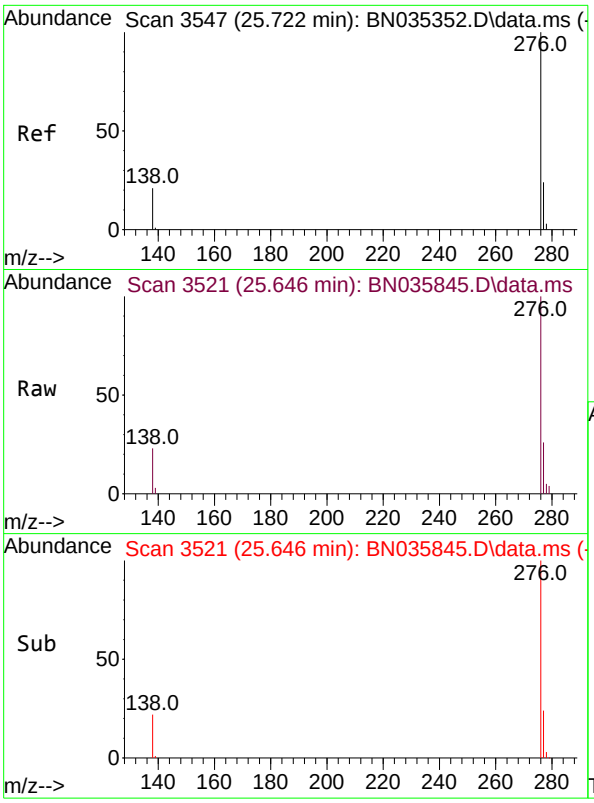


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

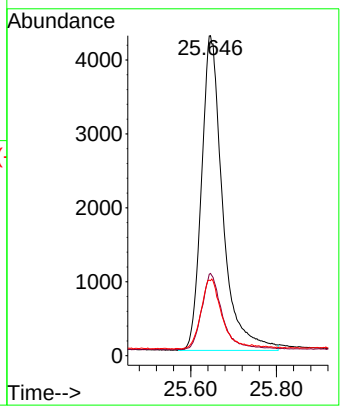




#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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 12/30/2024

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

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

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.: P5314 SAS No.: P5314 SDG No.: P5314

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	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.

Quantitation Report (QT Reviewed)

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 12/30/2024

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

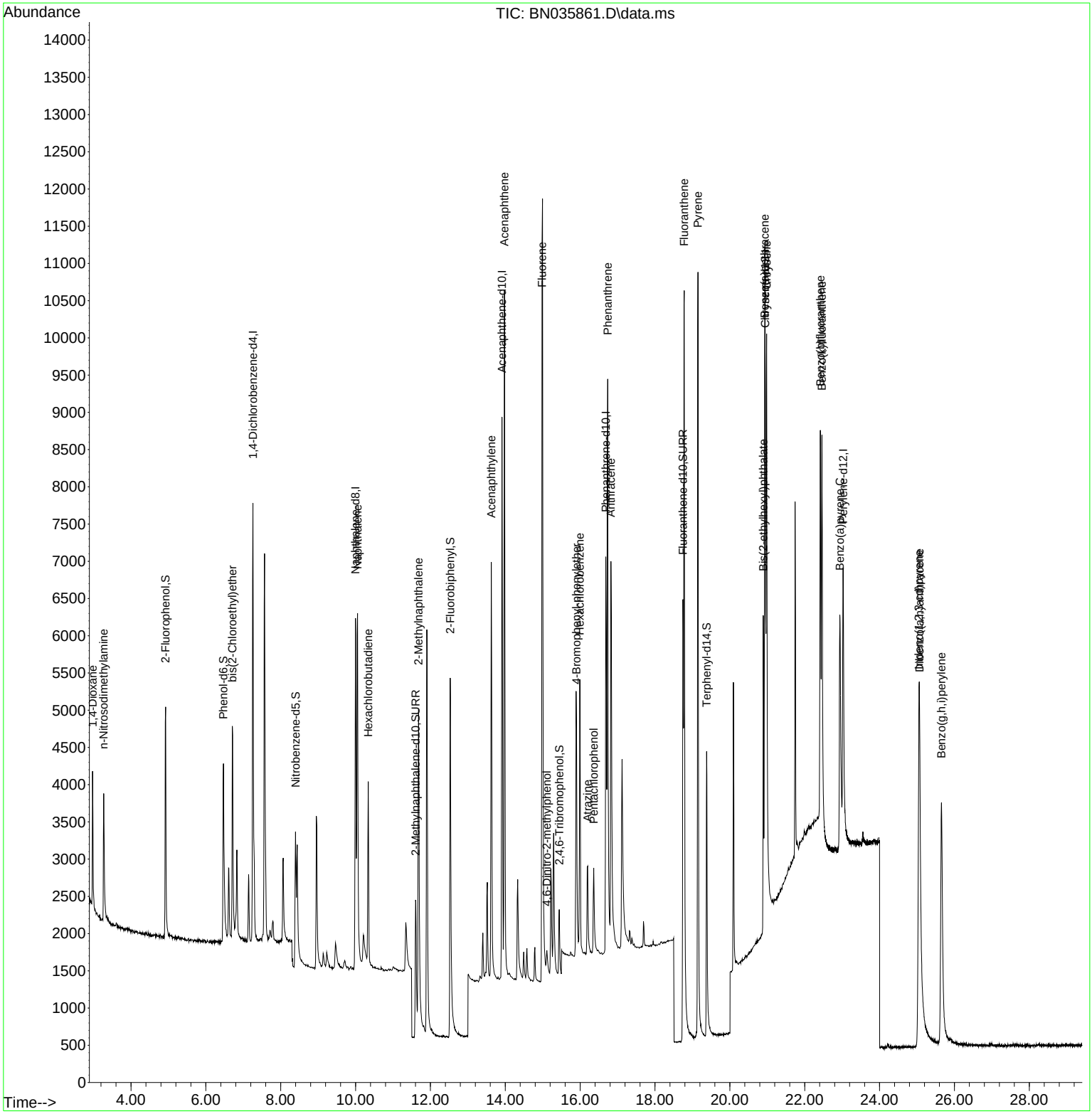
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035861.D
Acq On : 26 Dec 2024 19:41
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

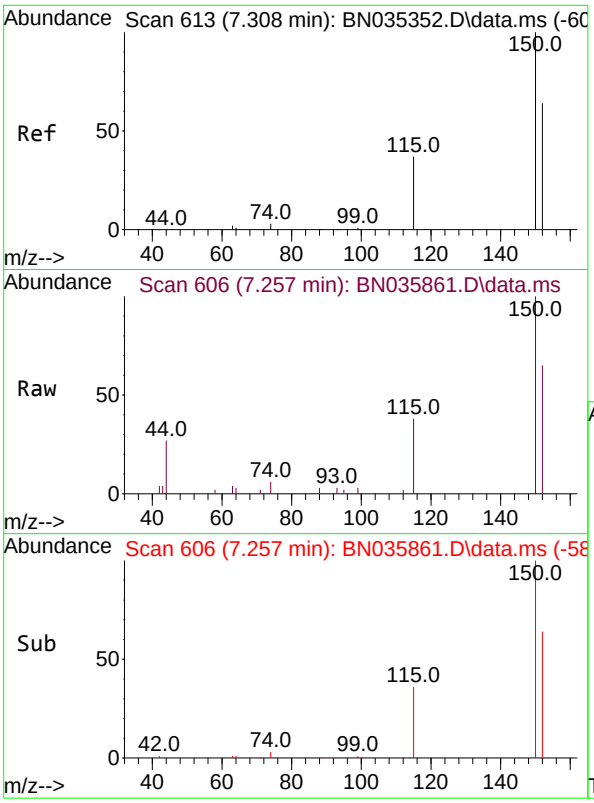
Quant Time: Dec 27 00:42:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

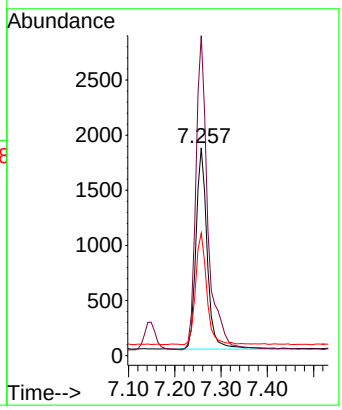




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:152 Resp: 308

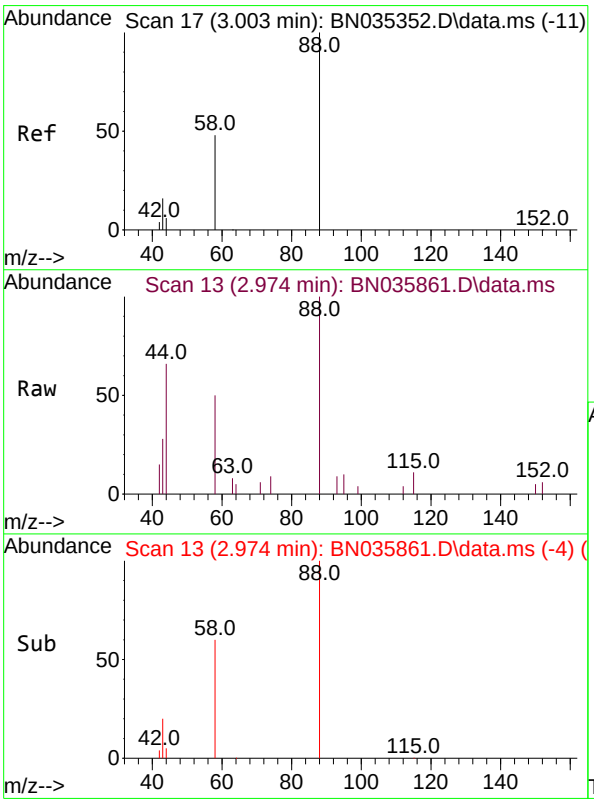
Ion	Ratio	Lower	Upper
152	100		
150	154.0	124.0	186.0
115	58.9	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Manual Integrations
APPROVED

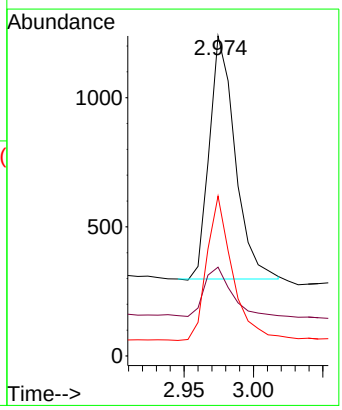
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

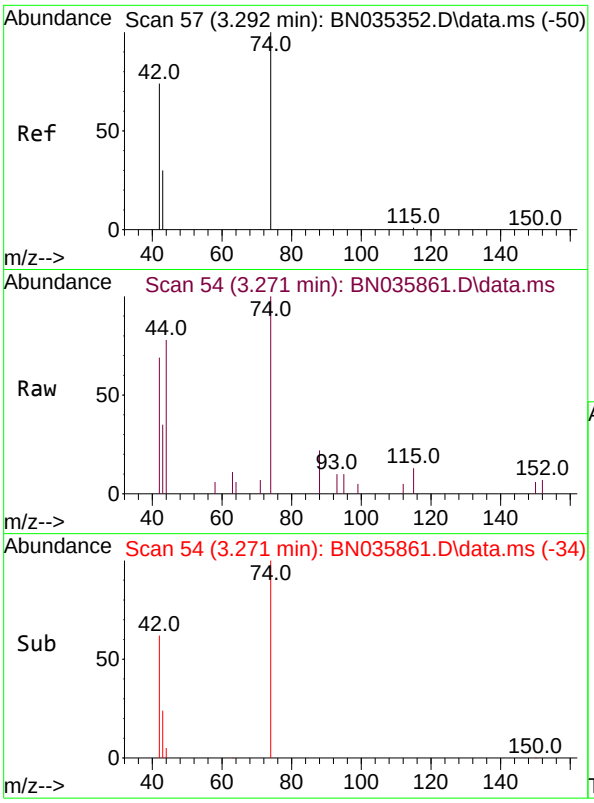


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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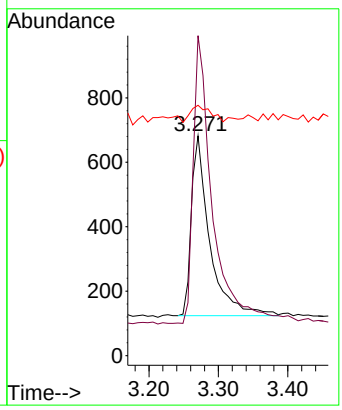
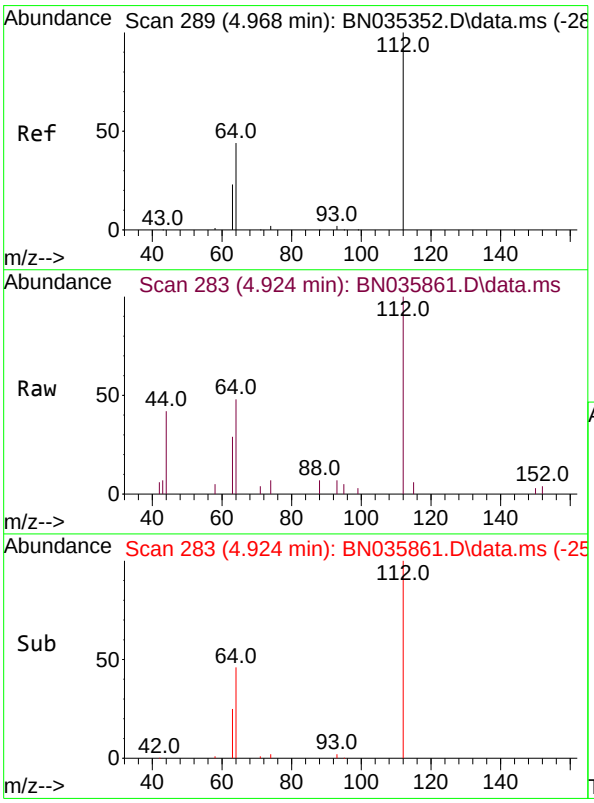
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

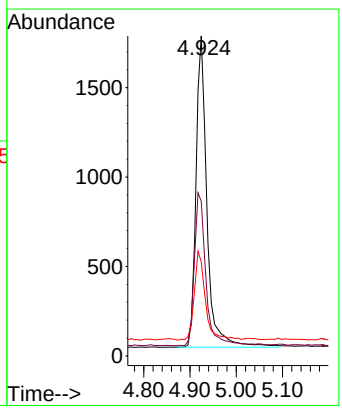


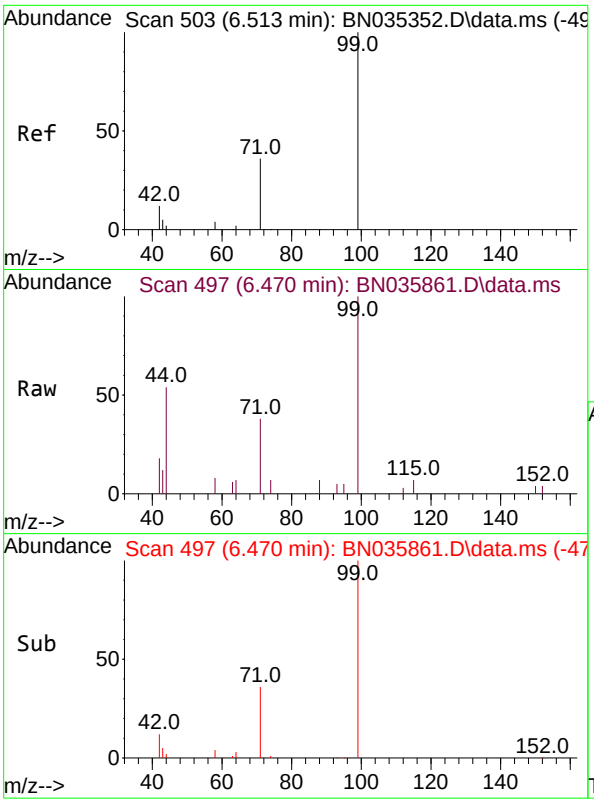


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

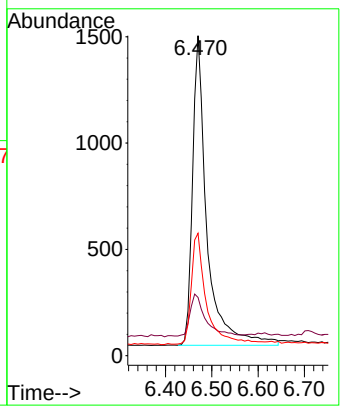




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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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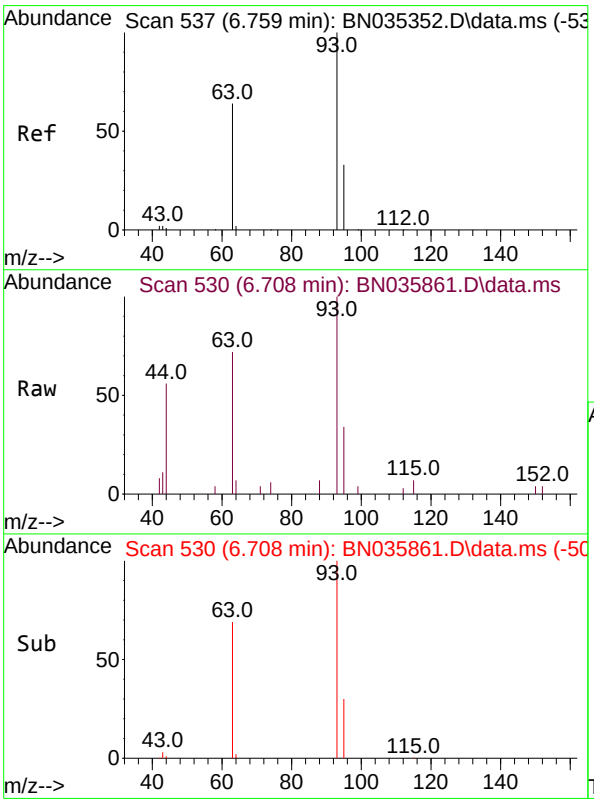
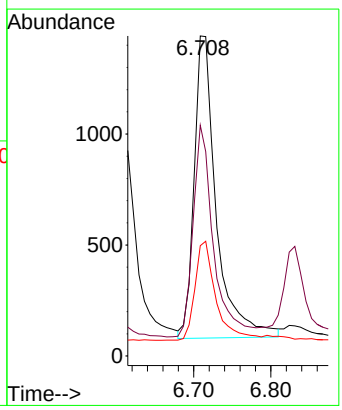
Supervised By :mohammad ahmed 12/30/2024

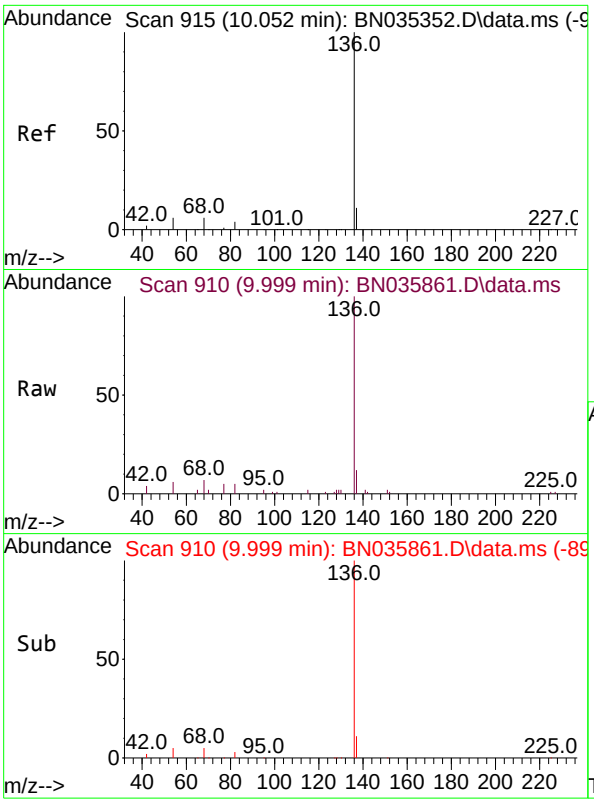


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

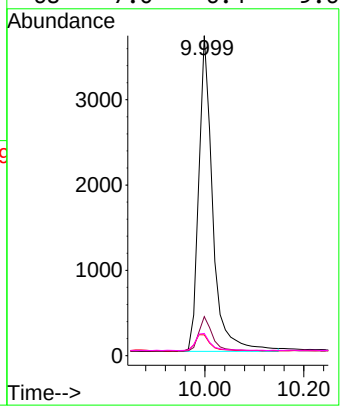




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:136 Resp: 723

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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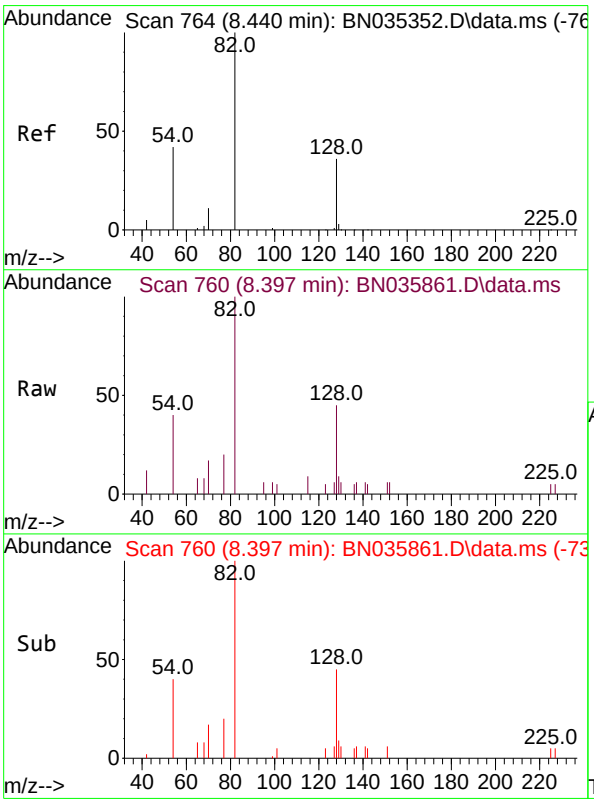
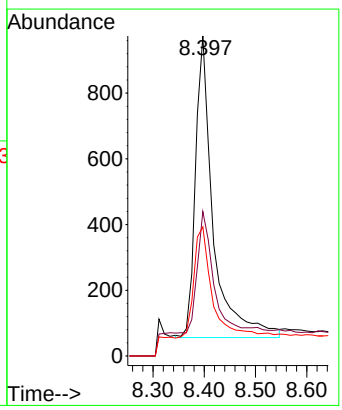
Supervised By :mohammad ahmed 12/30/2024

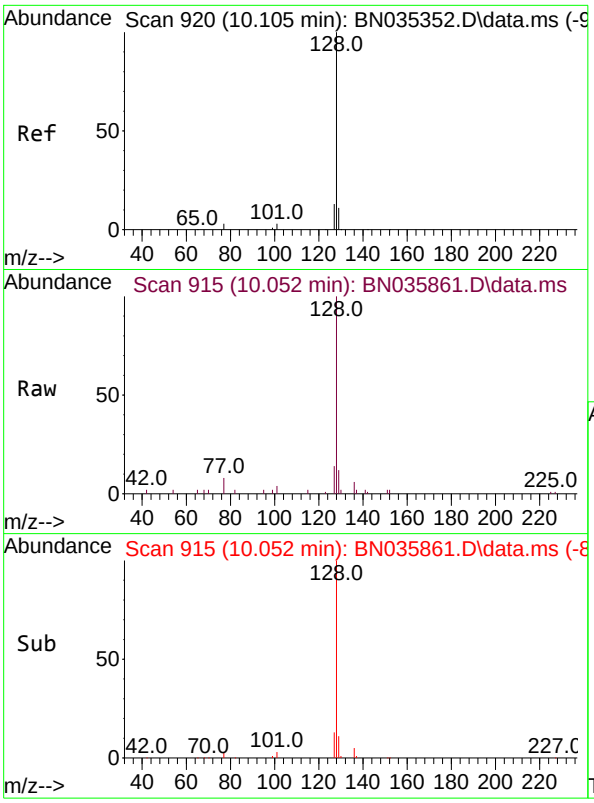


#8
Nitrobenzene-d5
Concen: 0.501 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

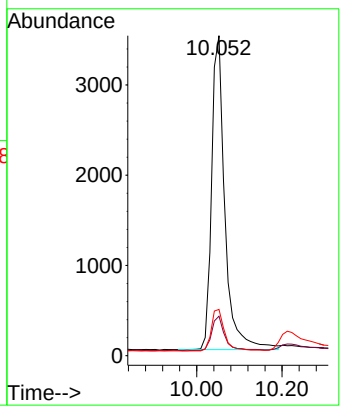




#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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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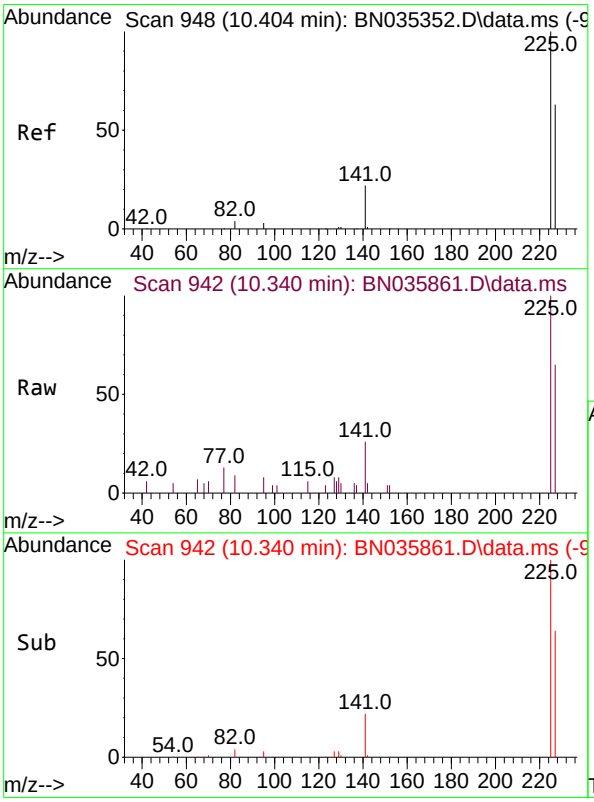
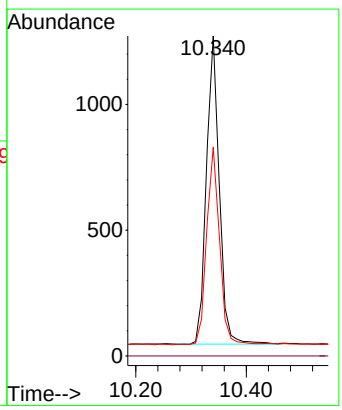
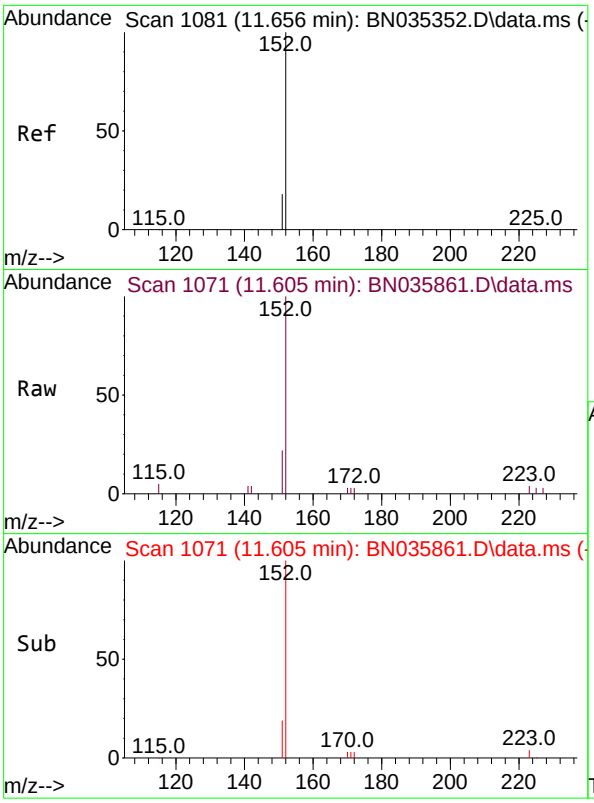


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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





#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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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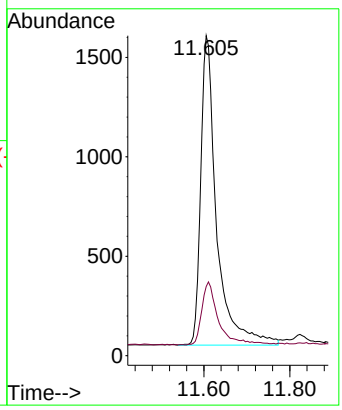
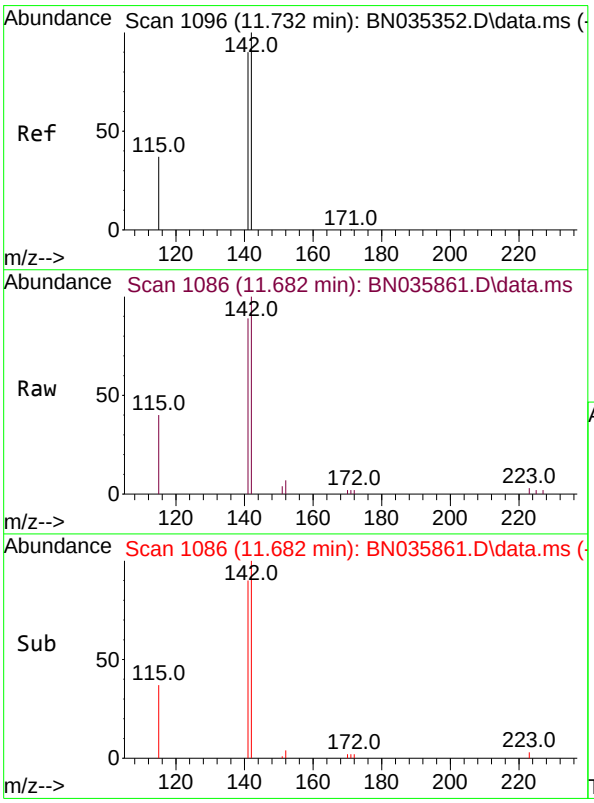
Supervised By :mohammad ahmed 12/30/2024

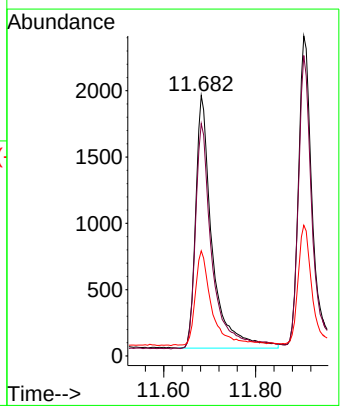


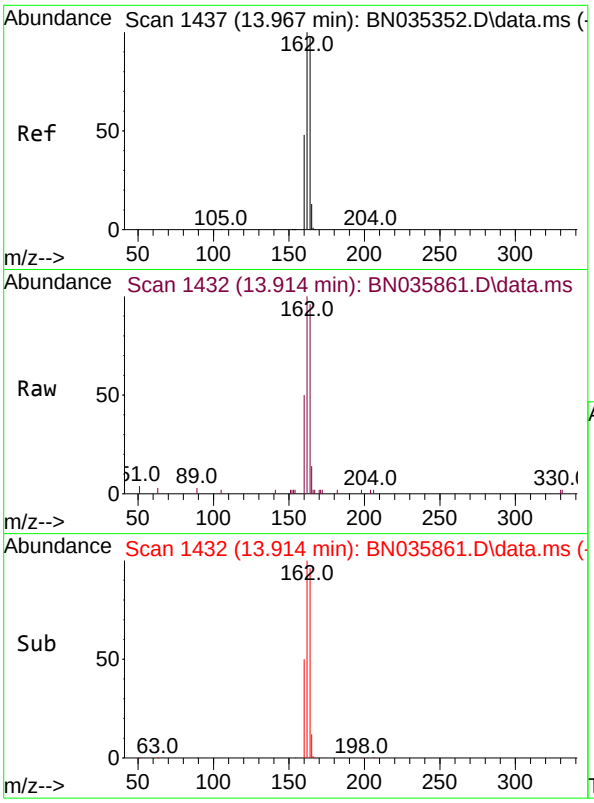


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

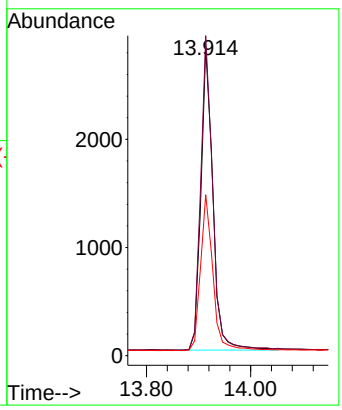




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

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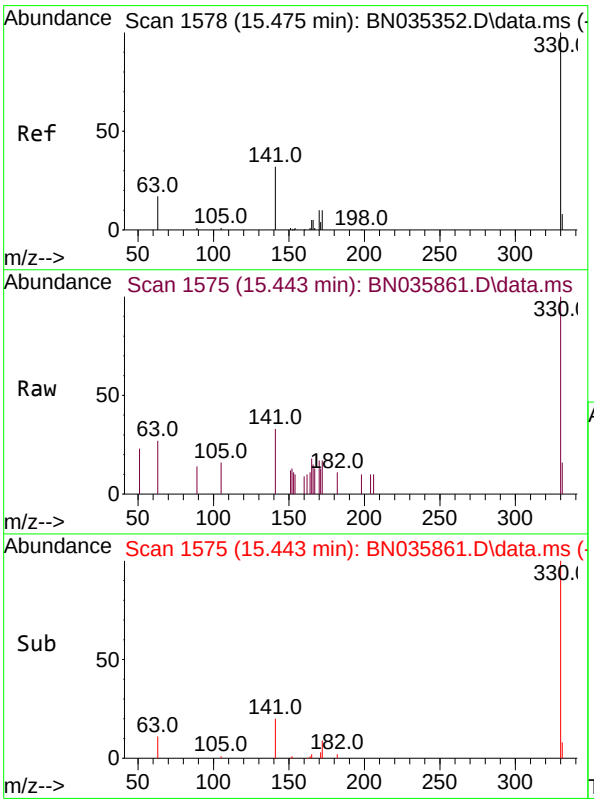
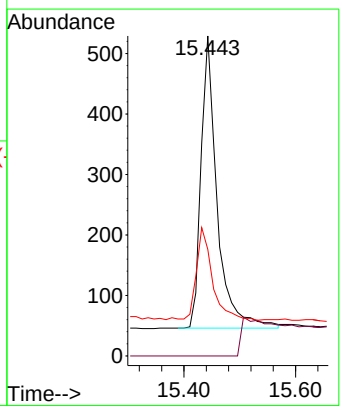
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

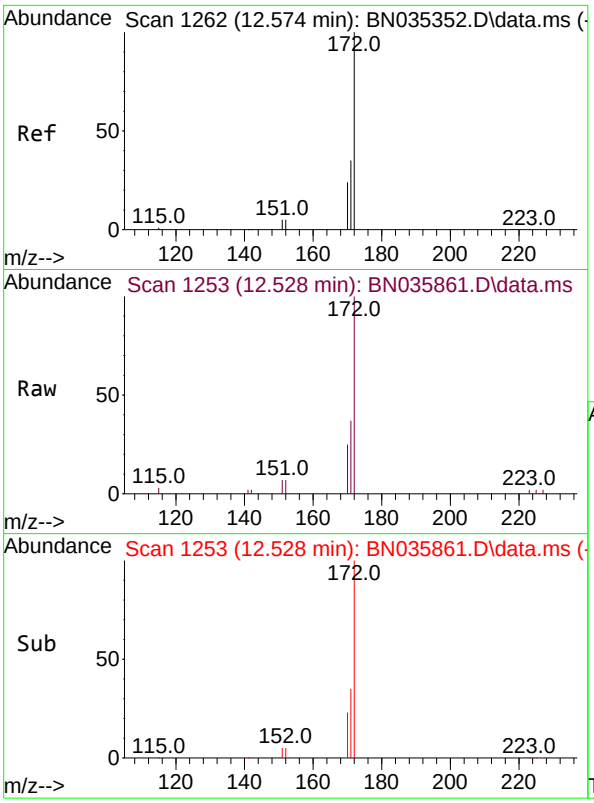


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

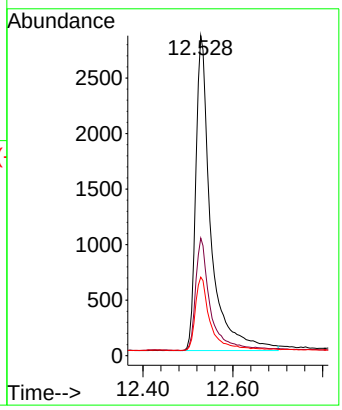




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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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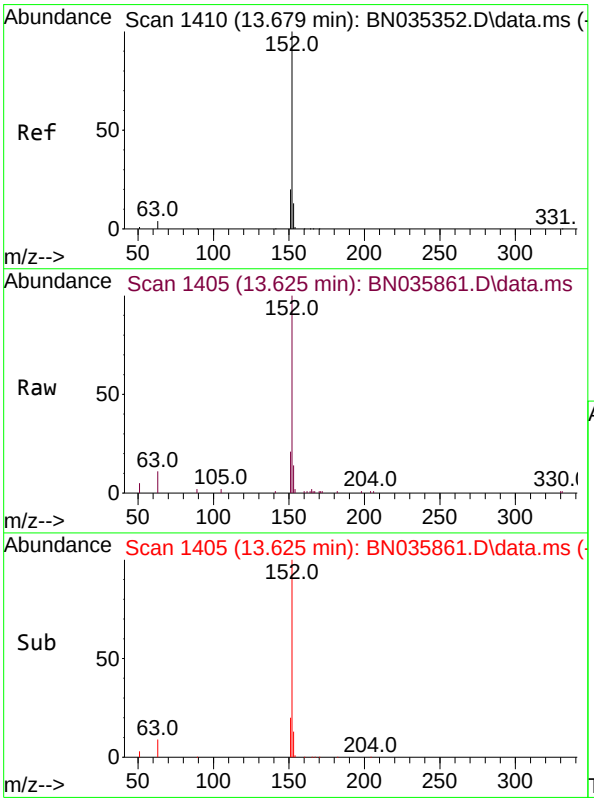
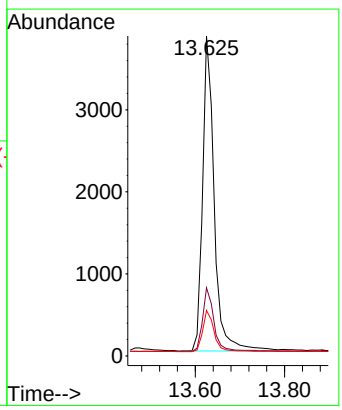
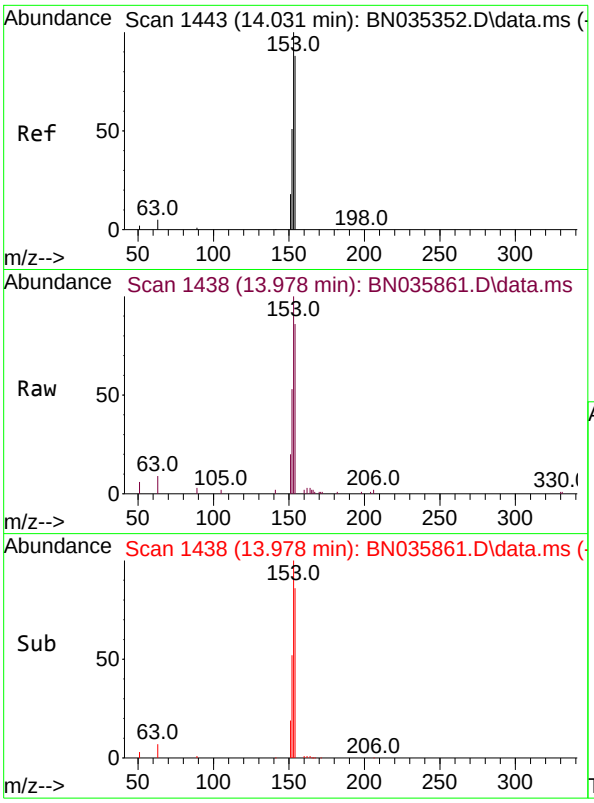


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

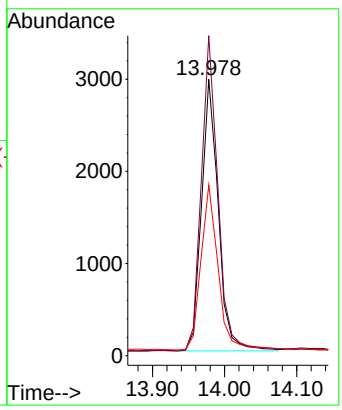




#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

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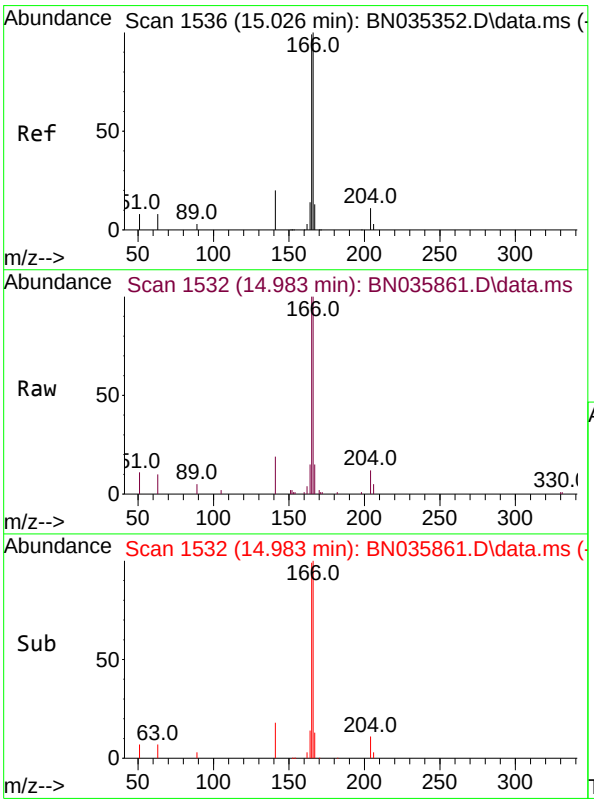
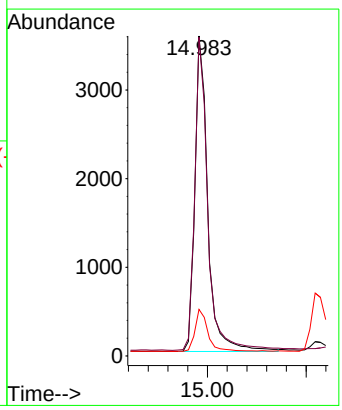
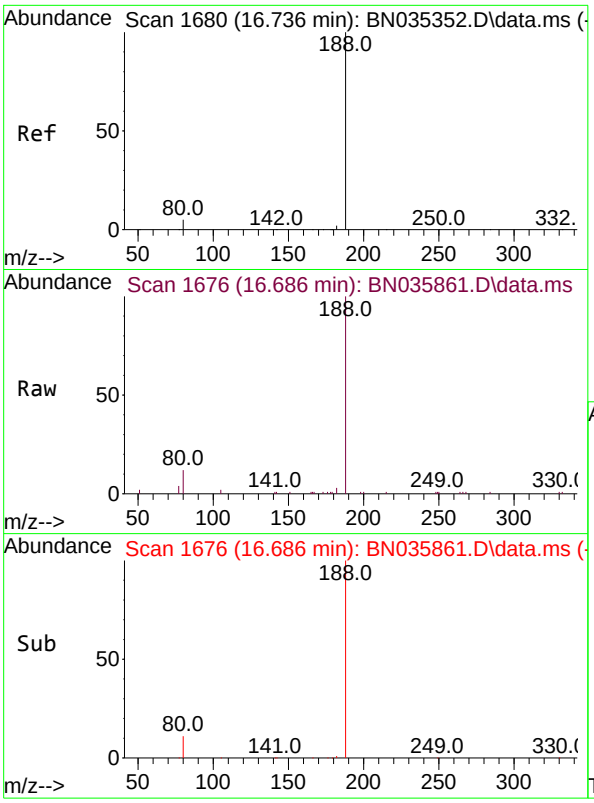


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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





#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#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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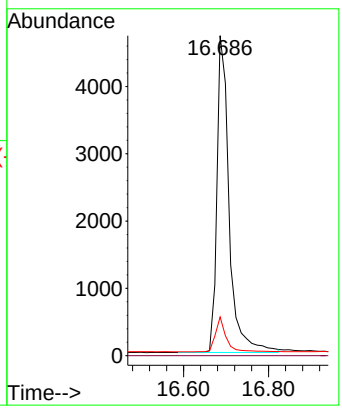
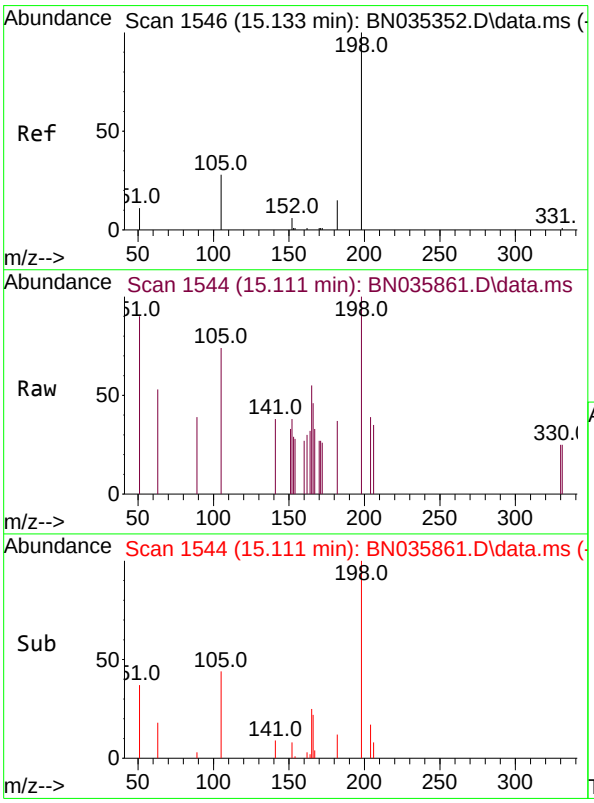
Supervised By :mohammad ahmed 12/30/2024

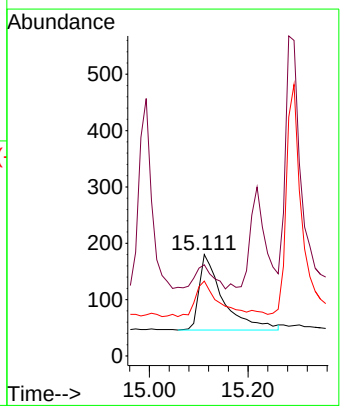


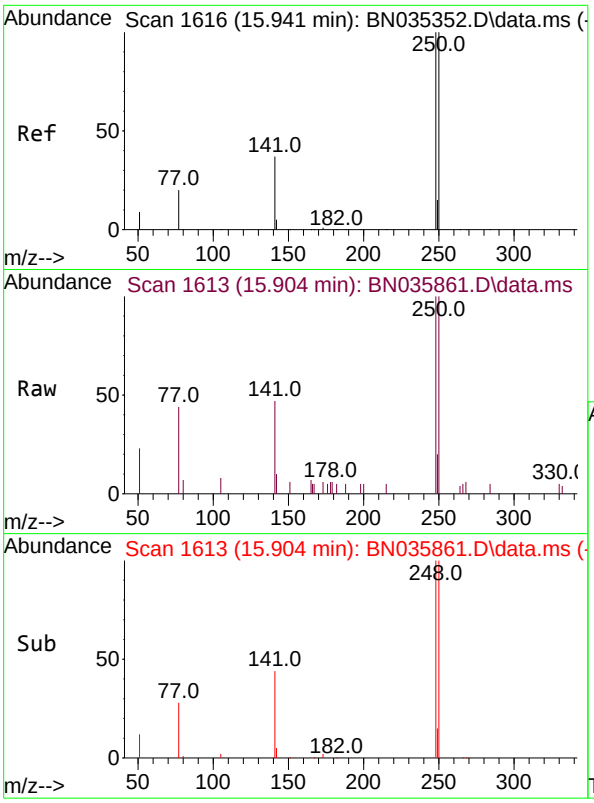


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

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#

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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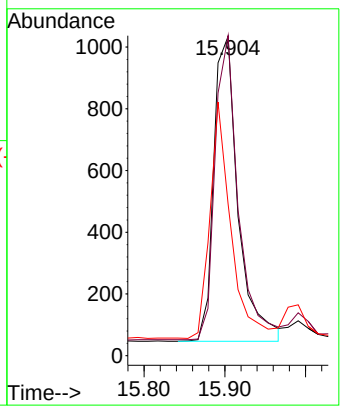
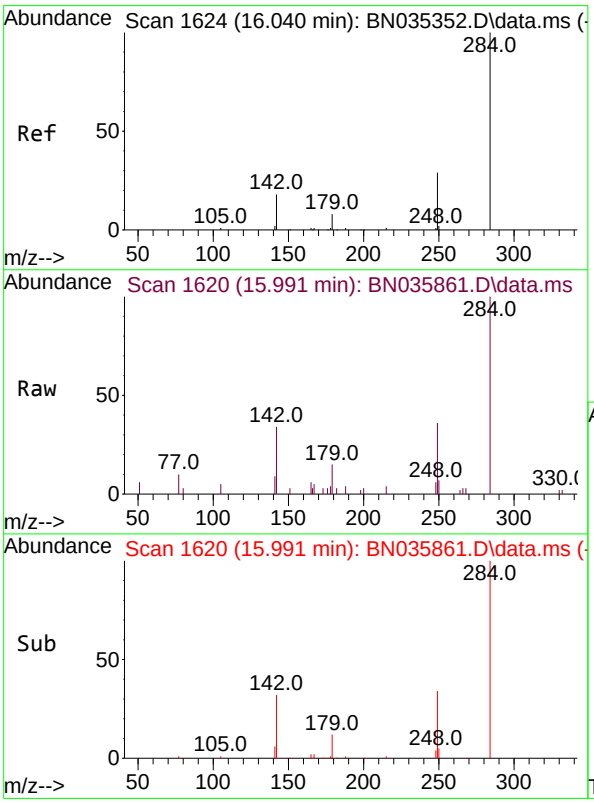
Supervised By :mohammad ahmed 12/30/2024

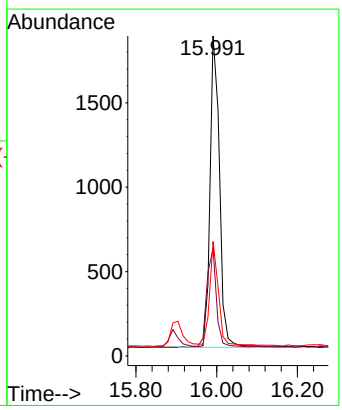


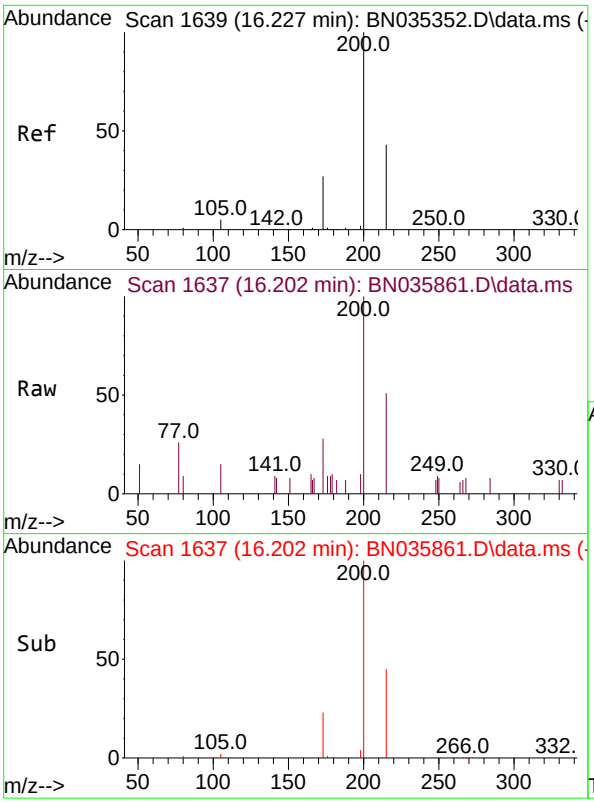


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

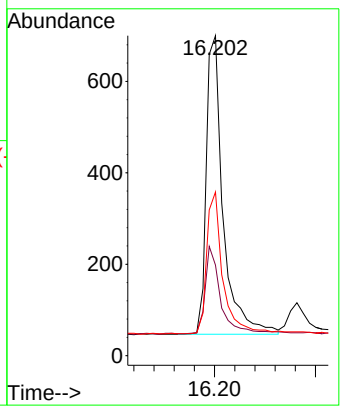




#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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 :
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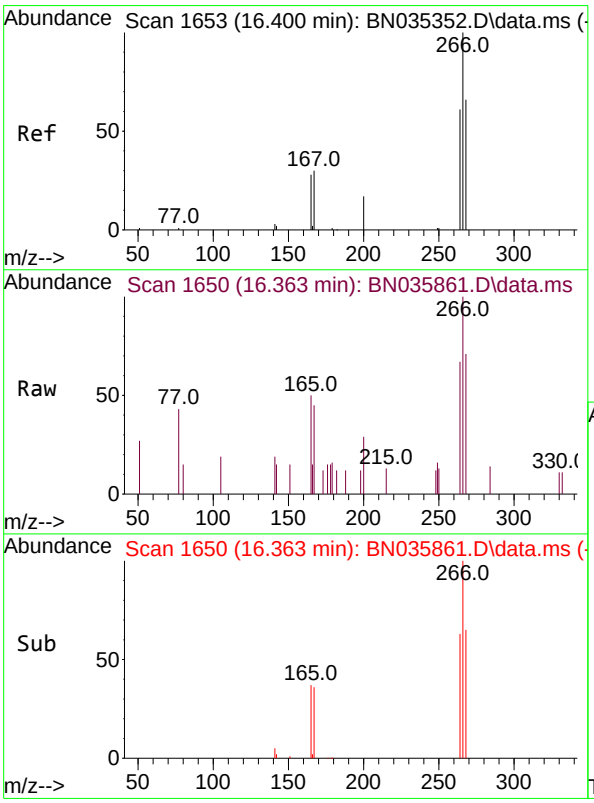
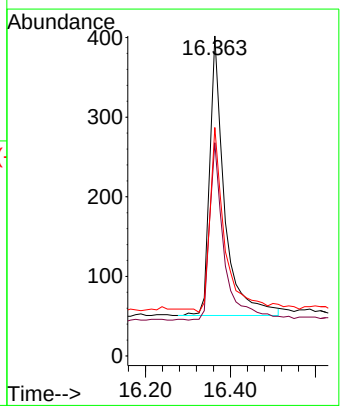
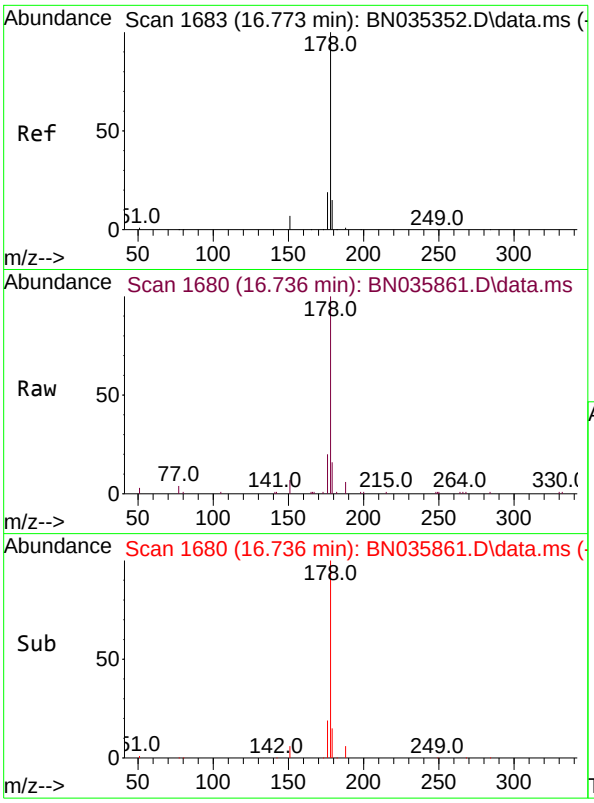


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

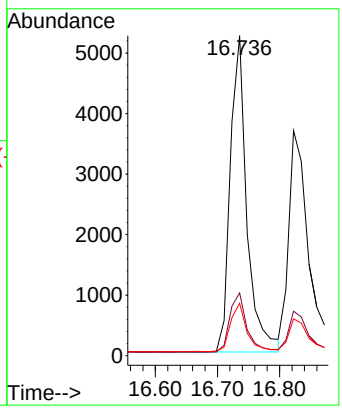




#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



Instrument :
BNA_N
ClientSampleId :
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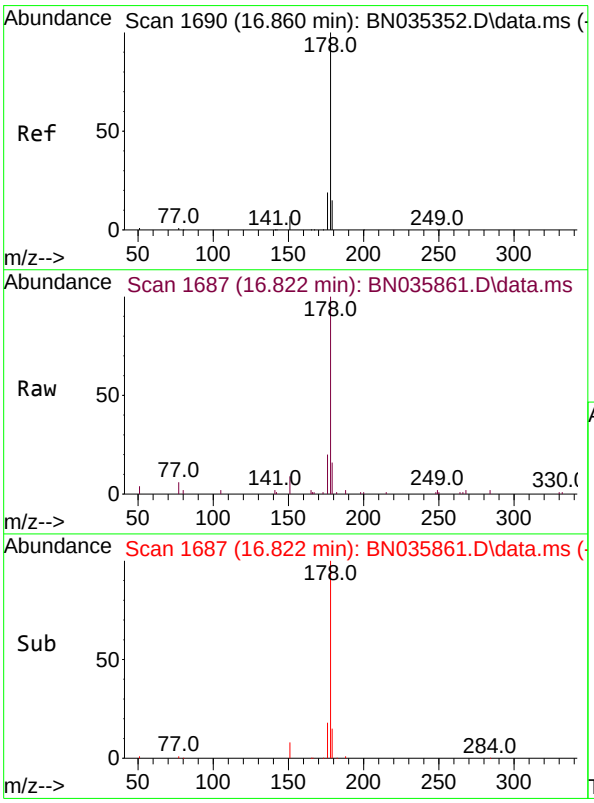
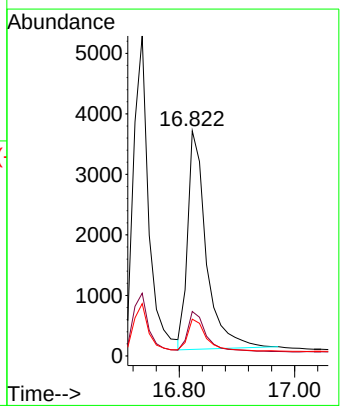
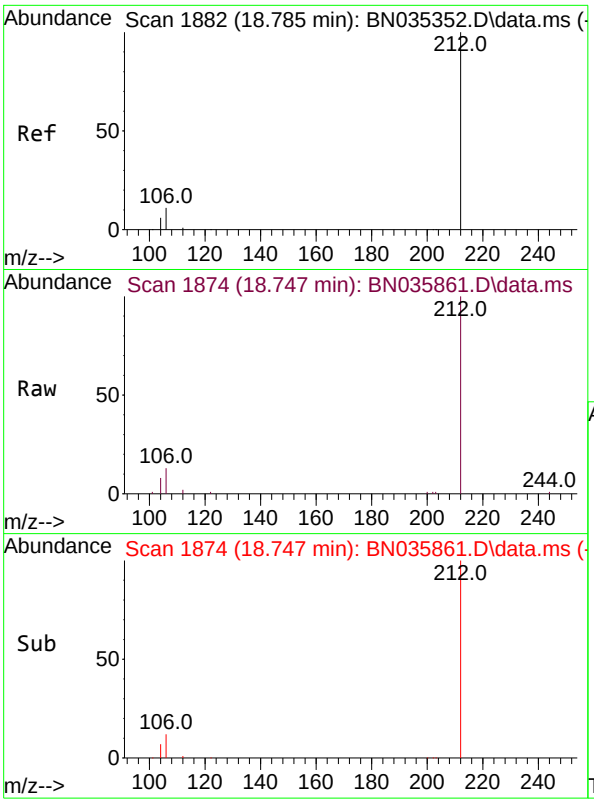


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

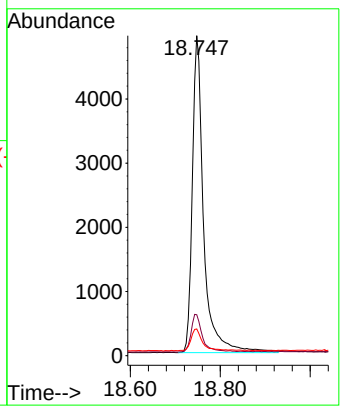




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



Instrument :
BNA_N
ClientSampleId :
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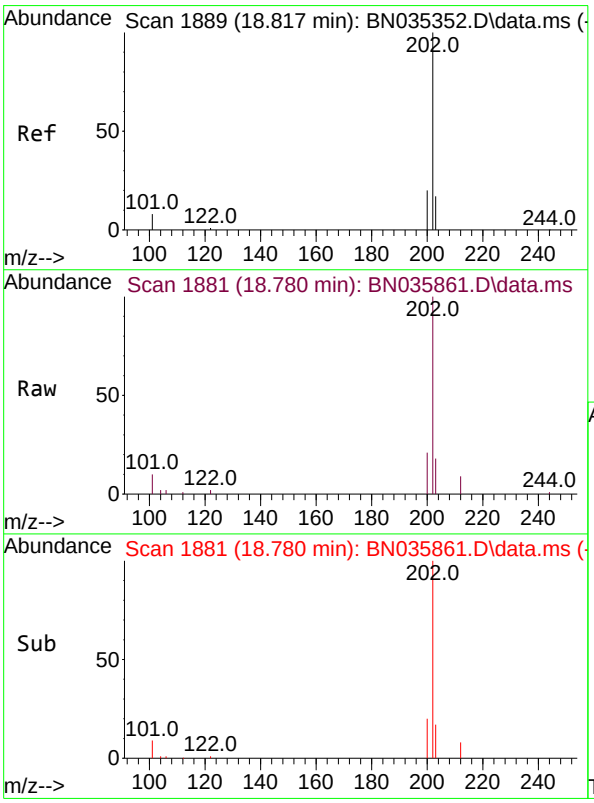
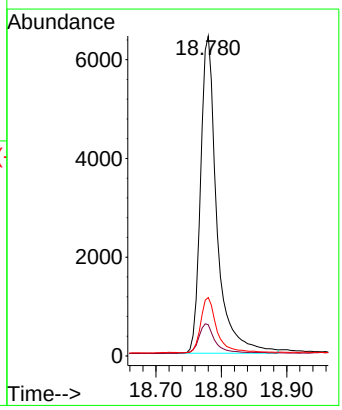
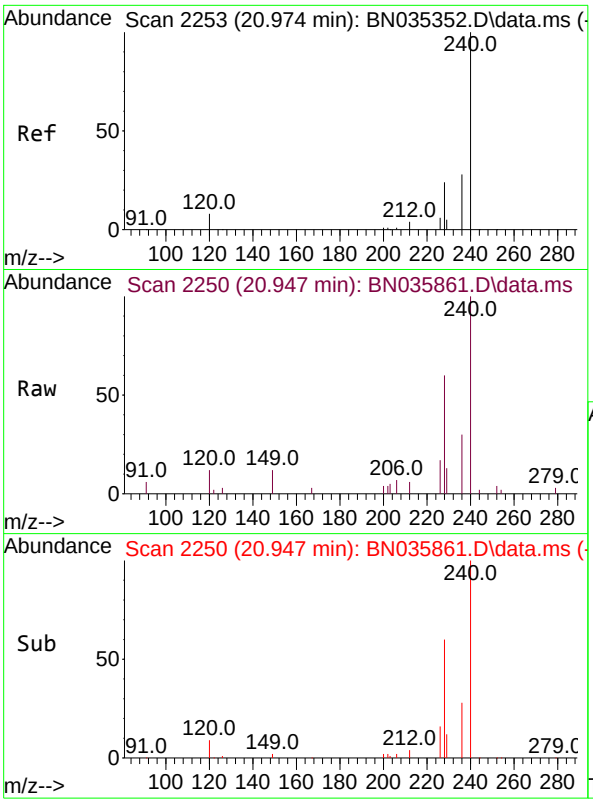


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

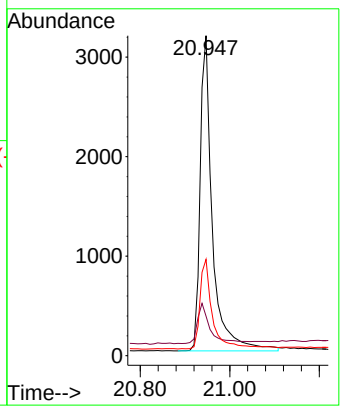




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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 :
SSTDCCC0.4EC

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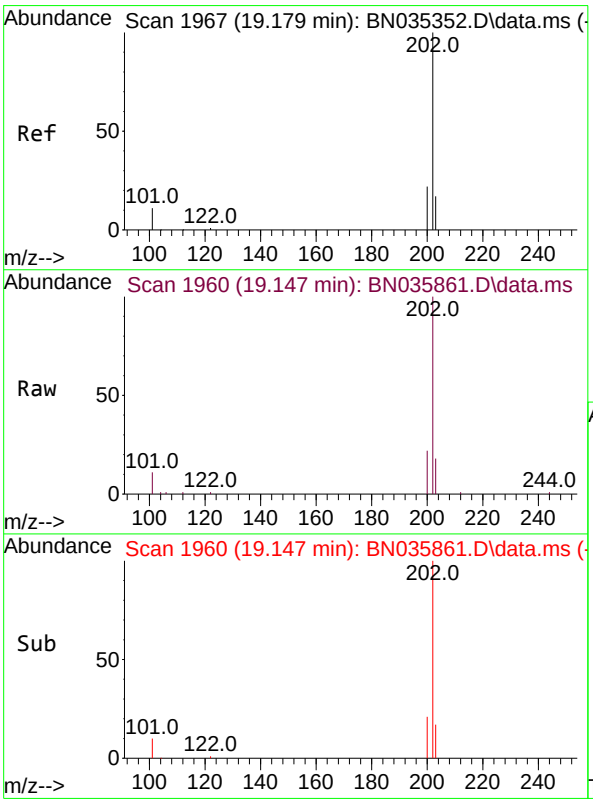
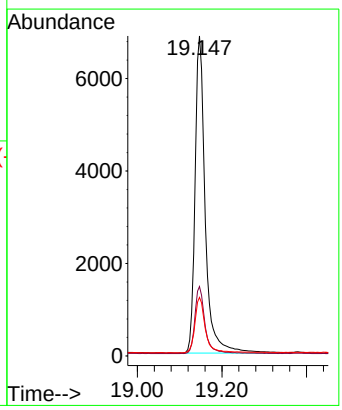
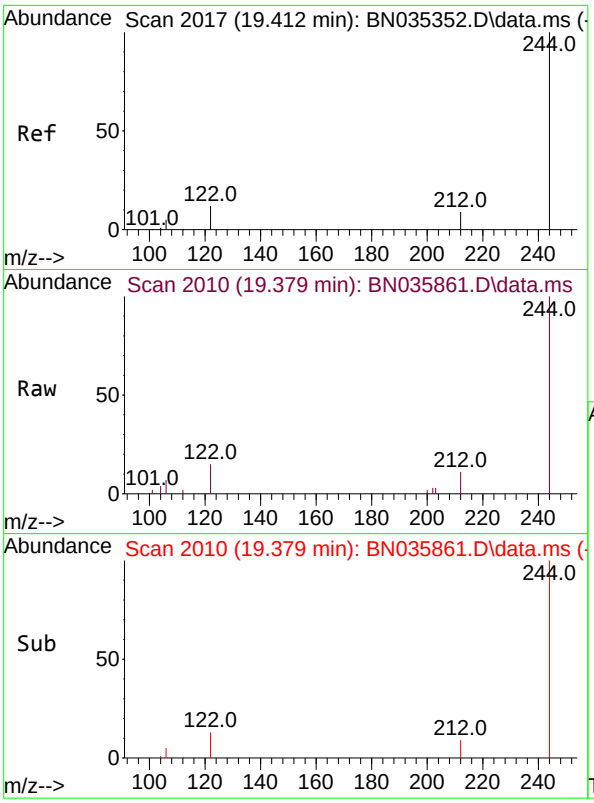


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

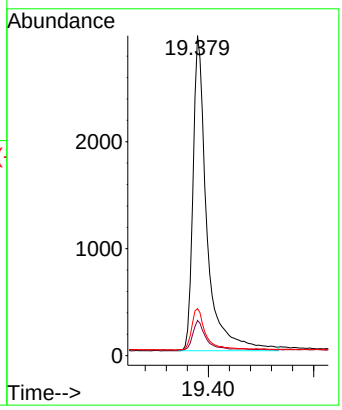




#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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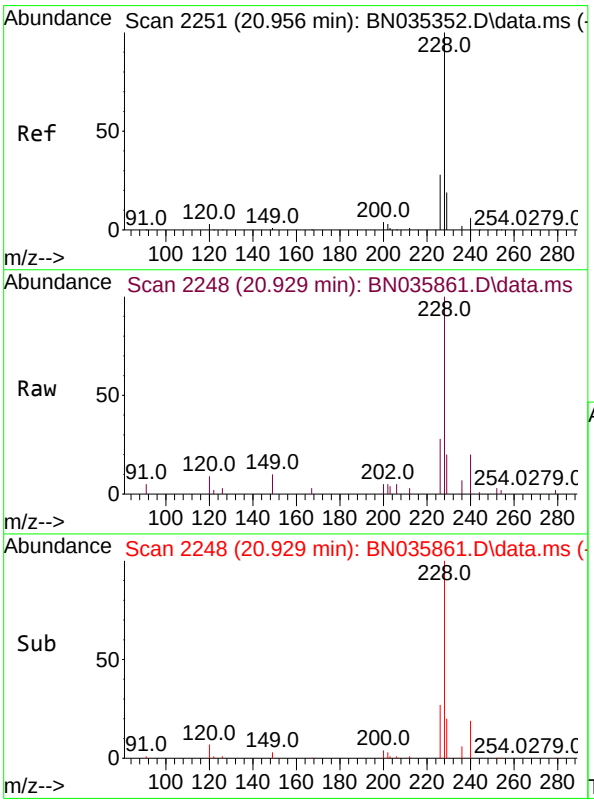
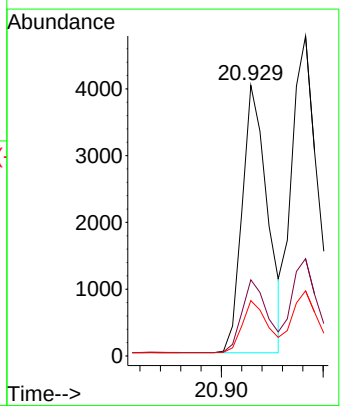
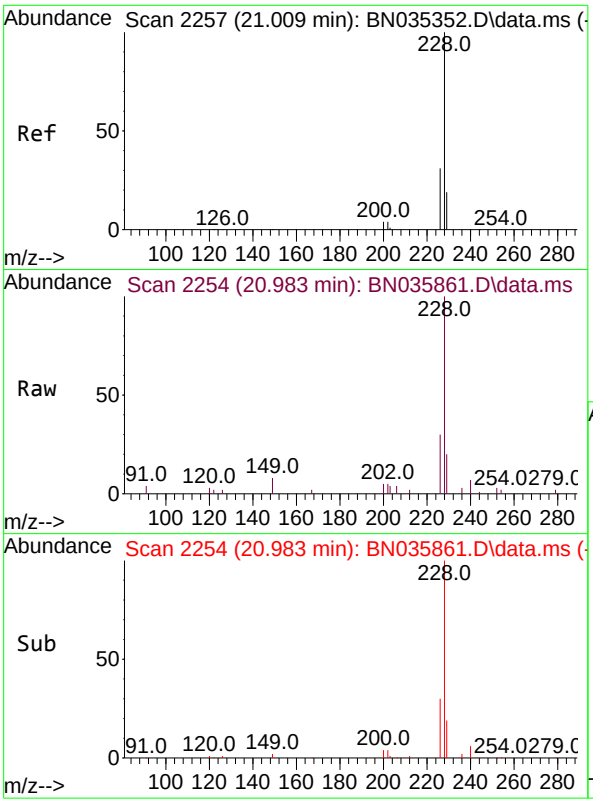


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

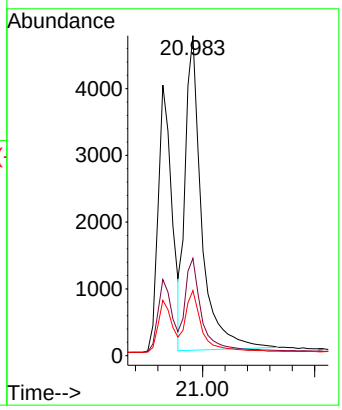




#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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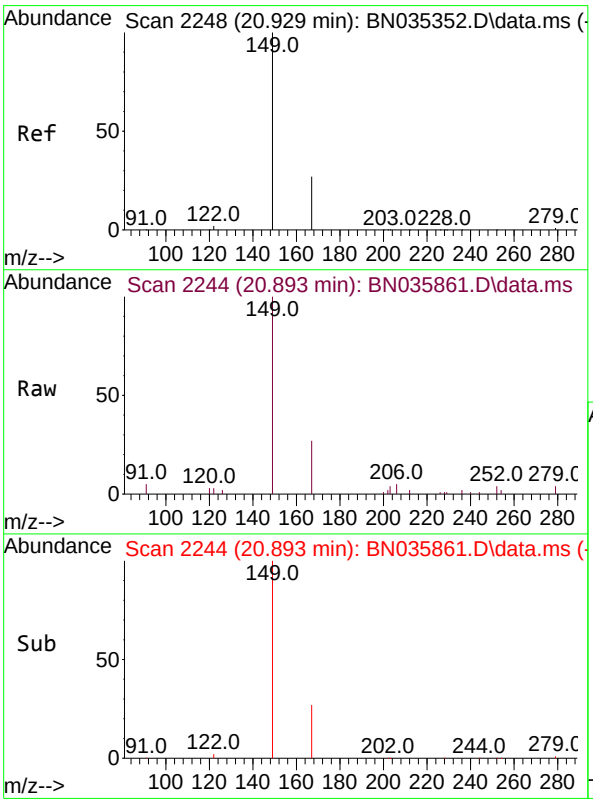
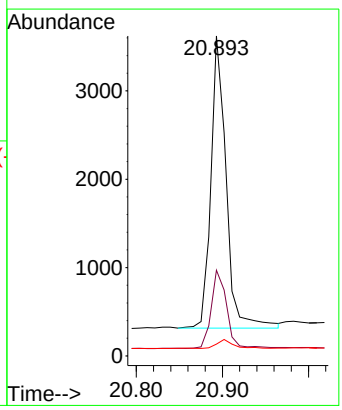
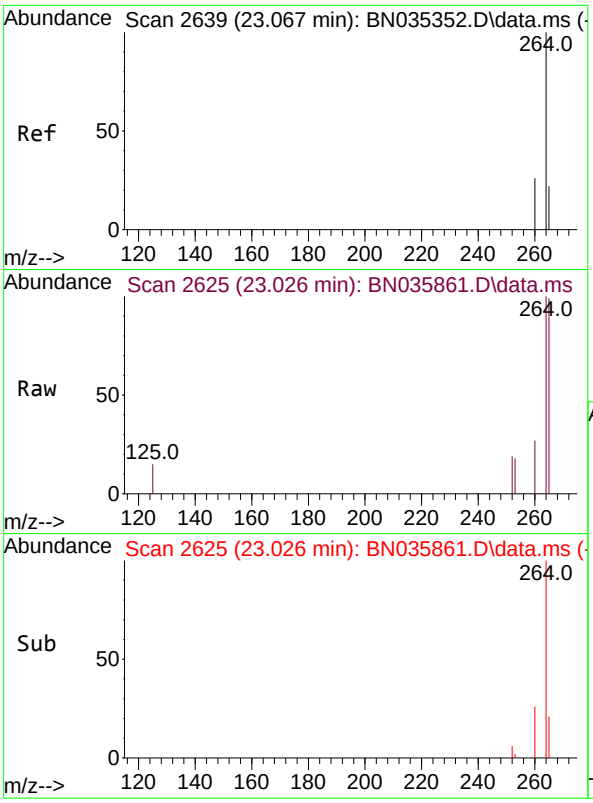


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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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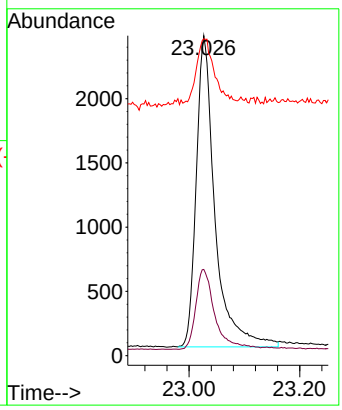
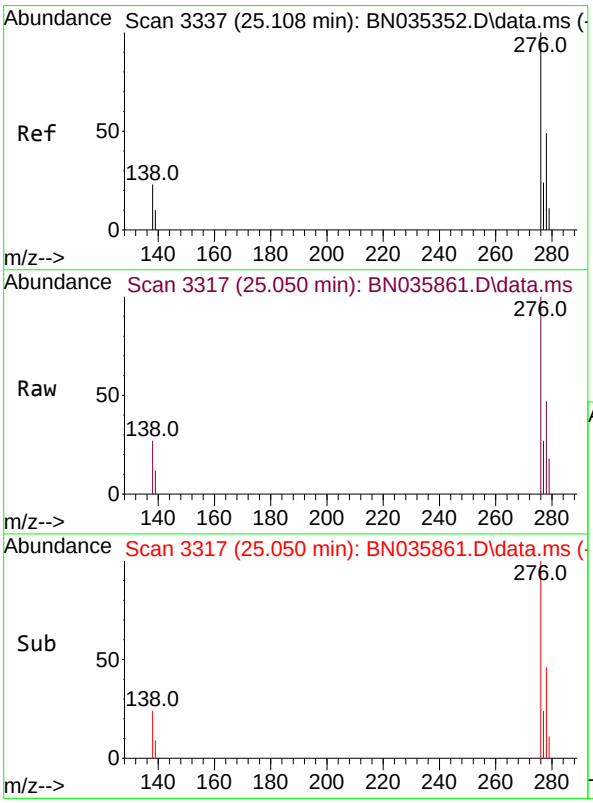
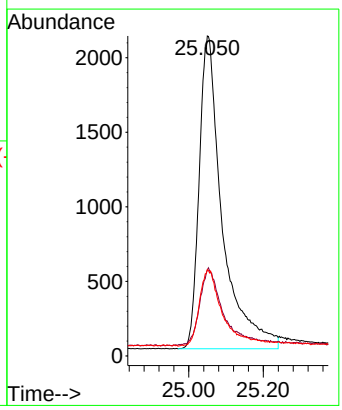


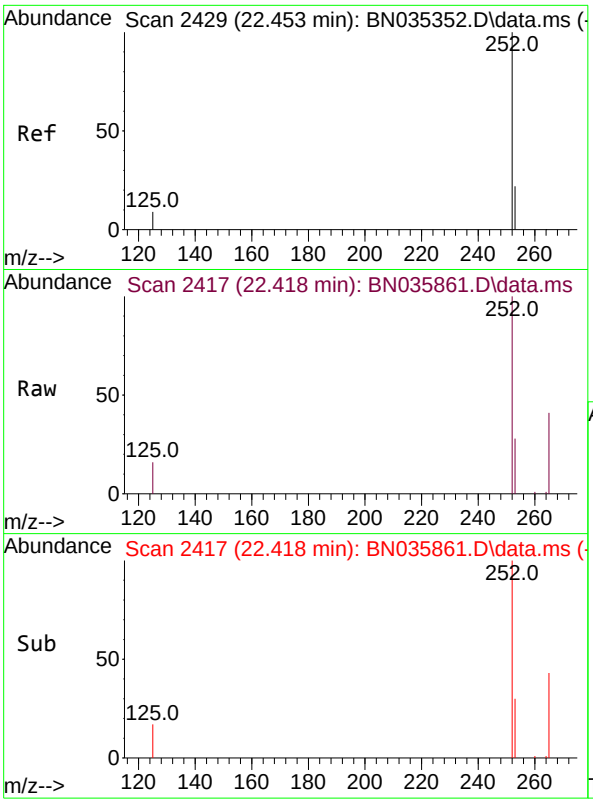


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

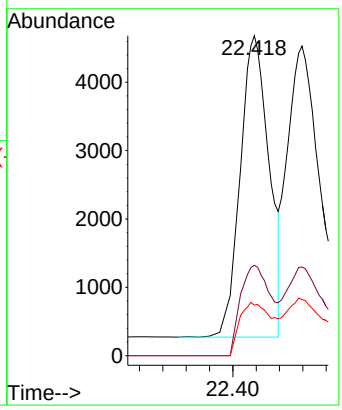




#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#



Instrument :
BNA_N
ClientSampleId :
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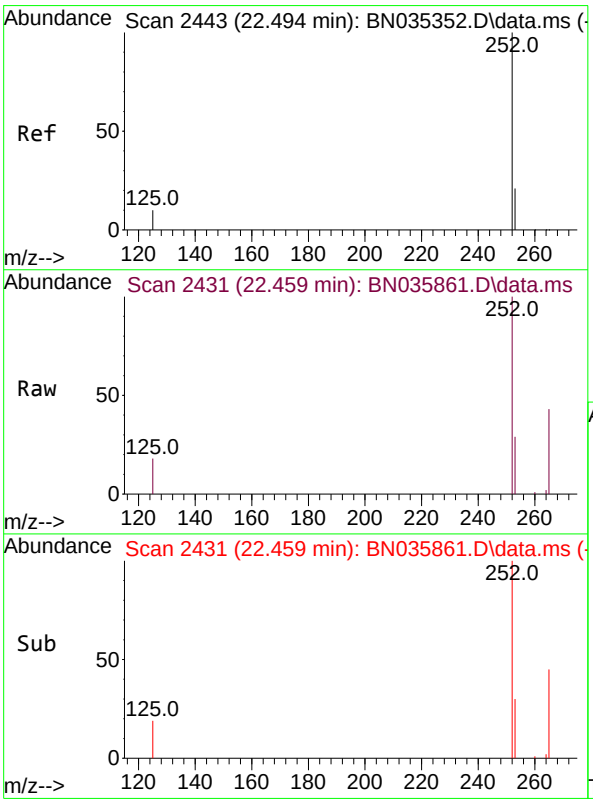
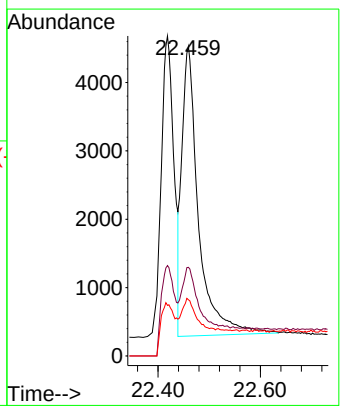
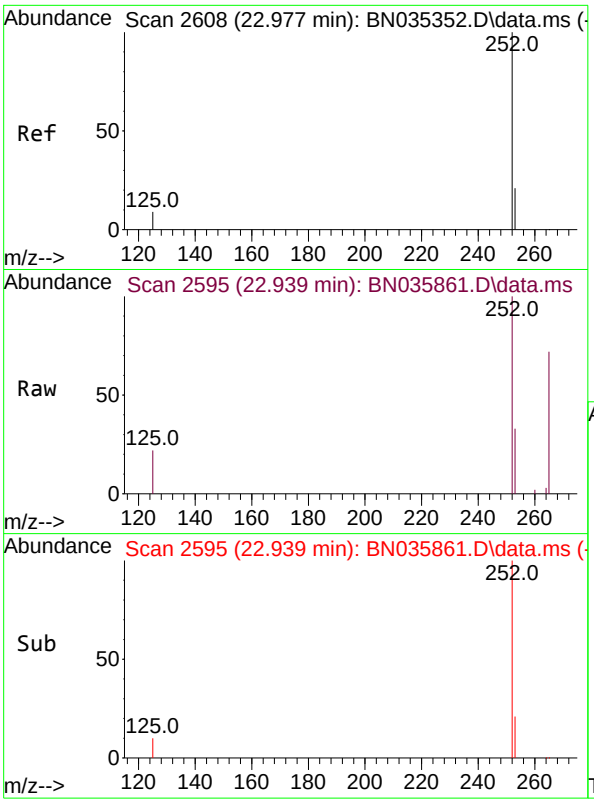


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

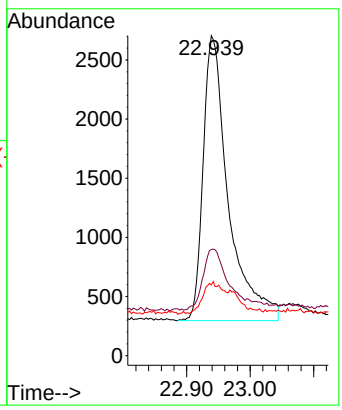




#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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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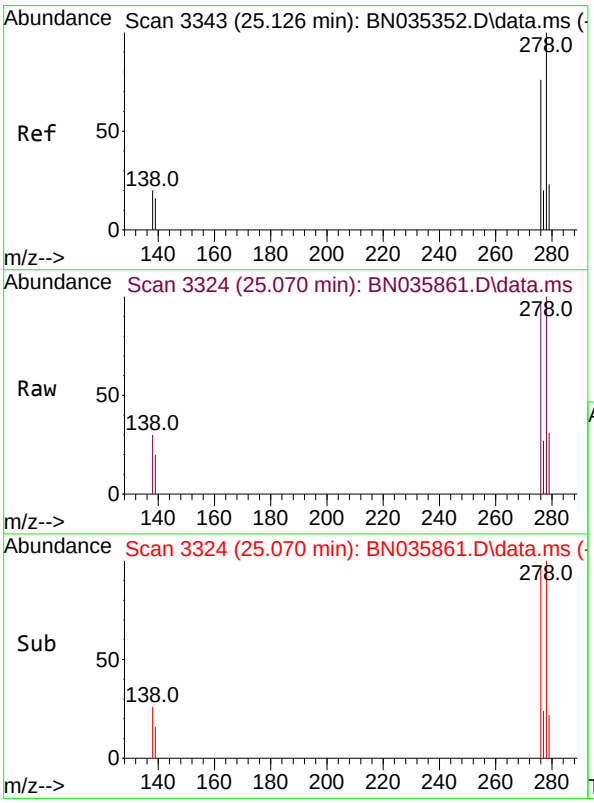
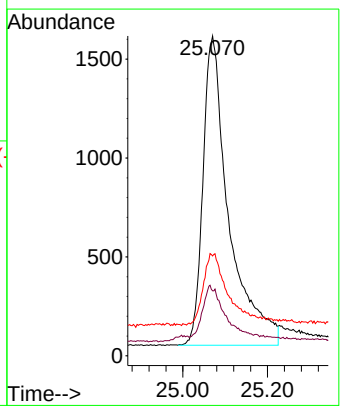
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

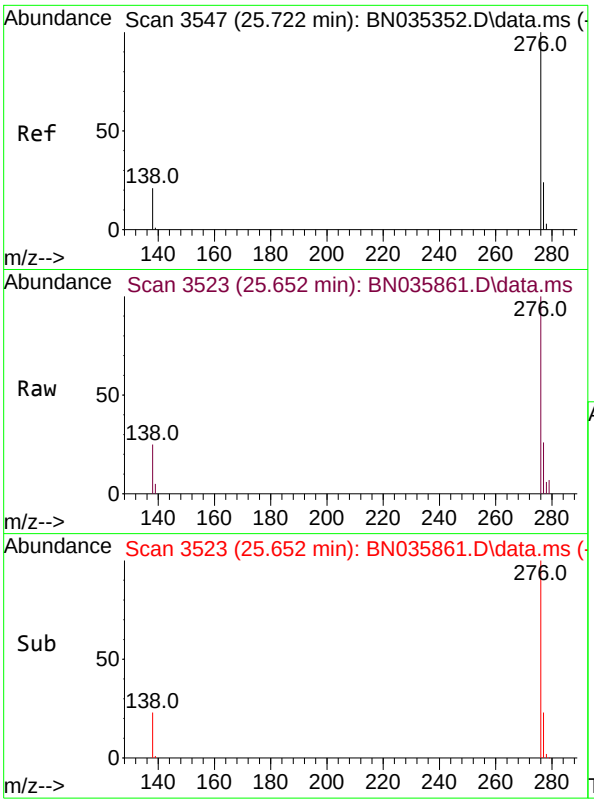


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

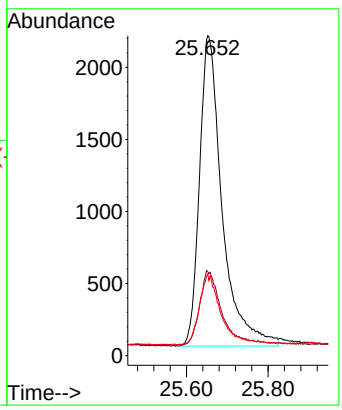




#41
Benzo(g,h,i)perylene
Concen: 0.452 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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 12/30/2024

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

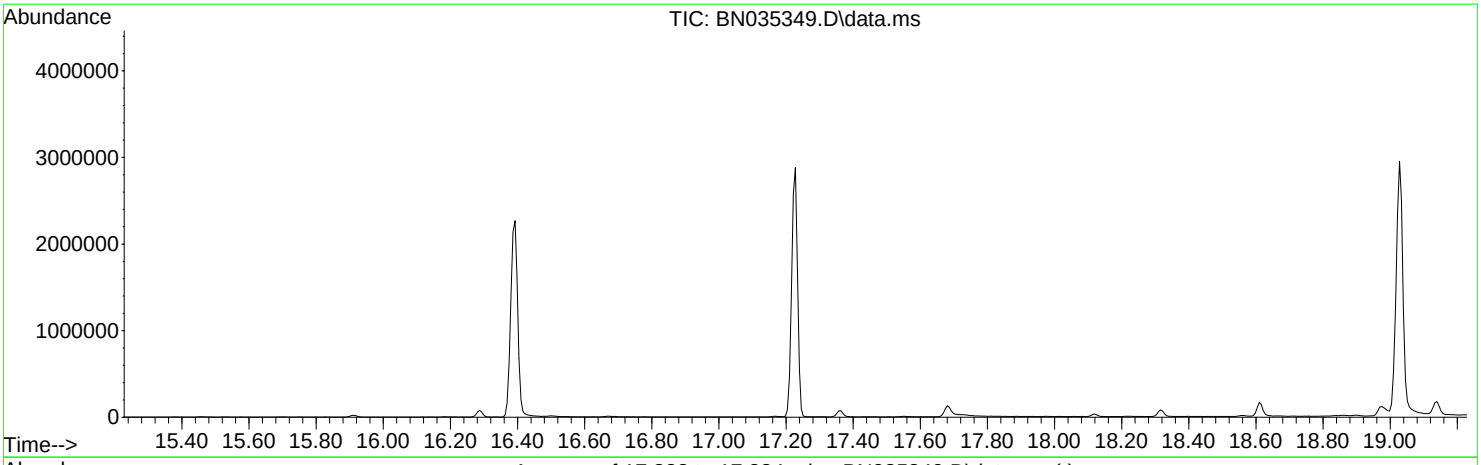
Sample Results: **BN035349.D**

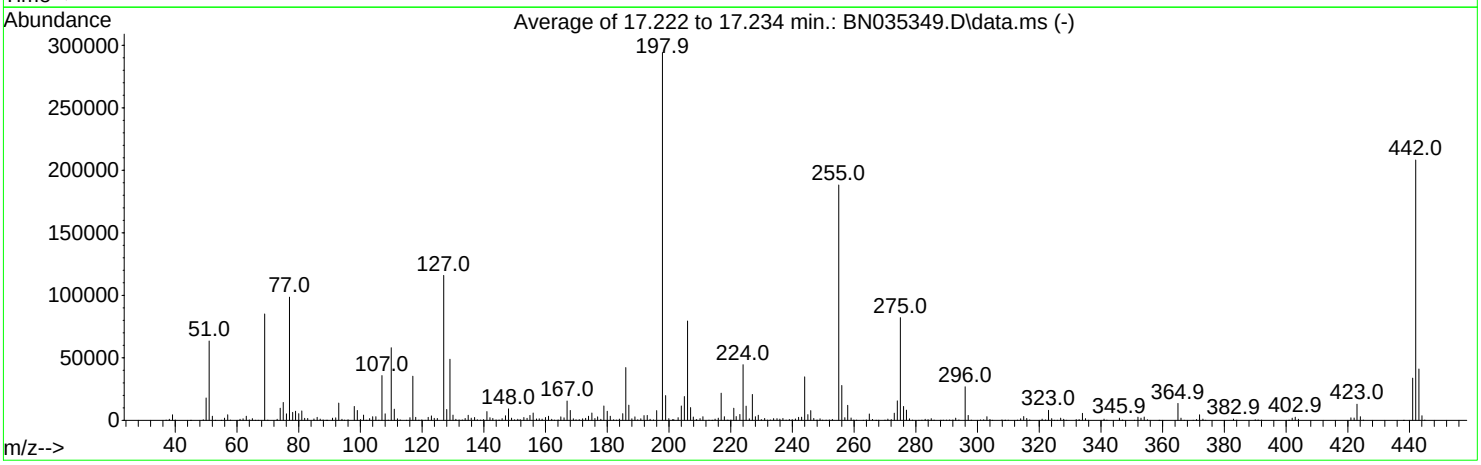
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

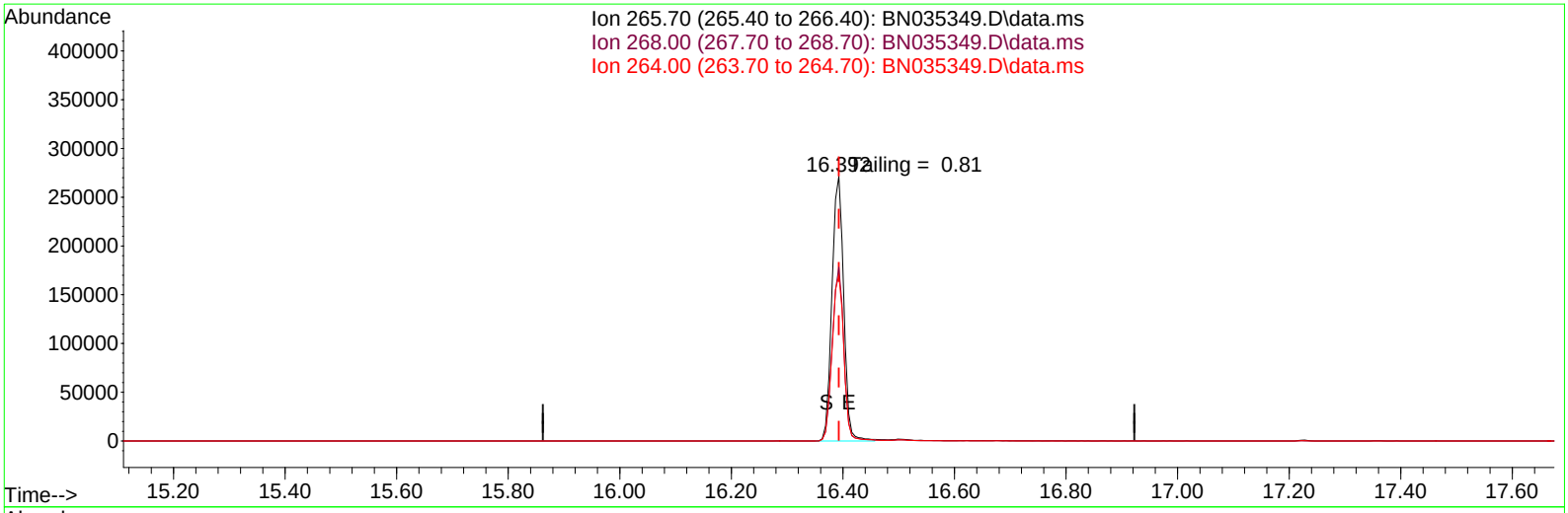
Instrument :
BNA_N
ClientSampleId :
DFTPP

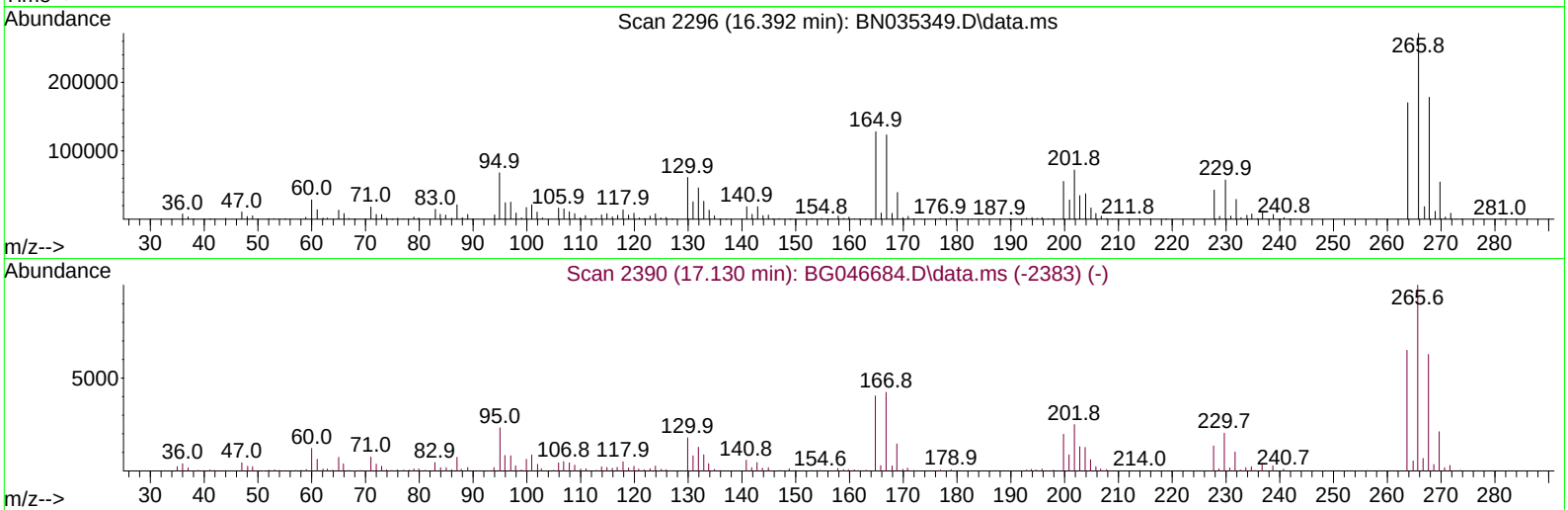
Sample Results: **BN035349.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration





TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

response 398074

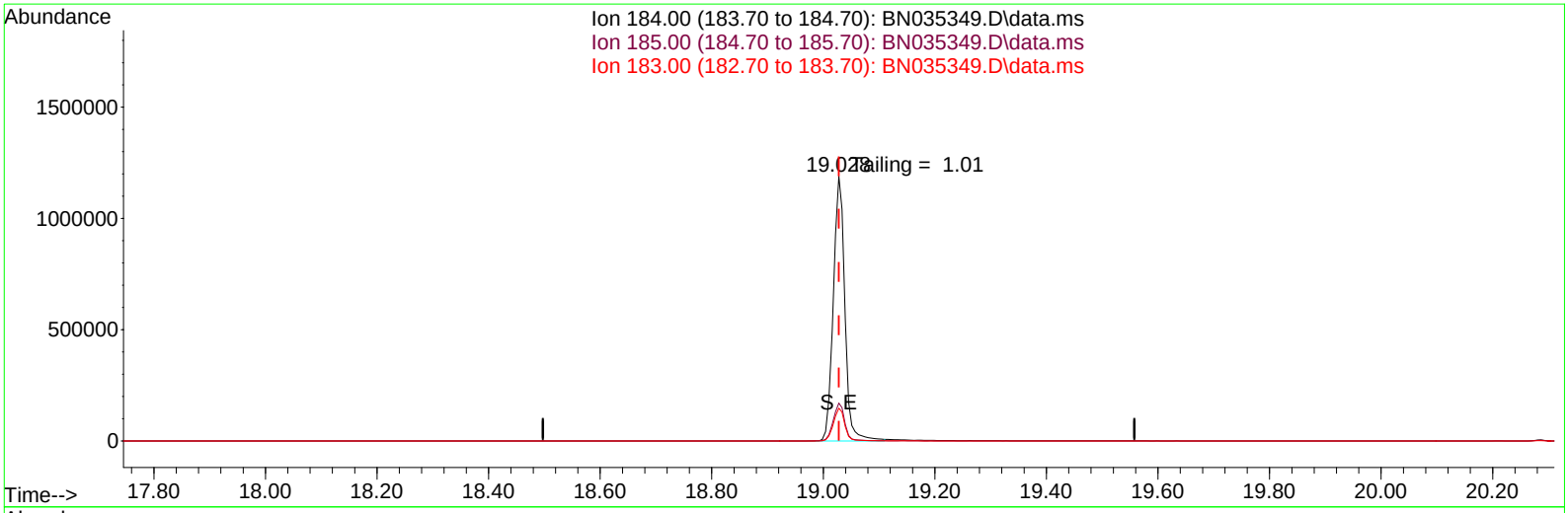
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.68
264.00	61.60	62.66
0.00	0.00	0.00

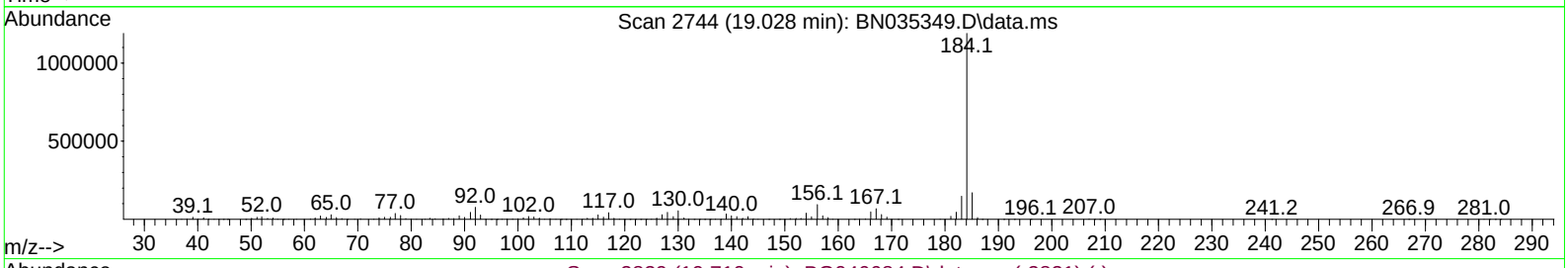
Sample Results: **BN035349.D**

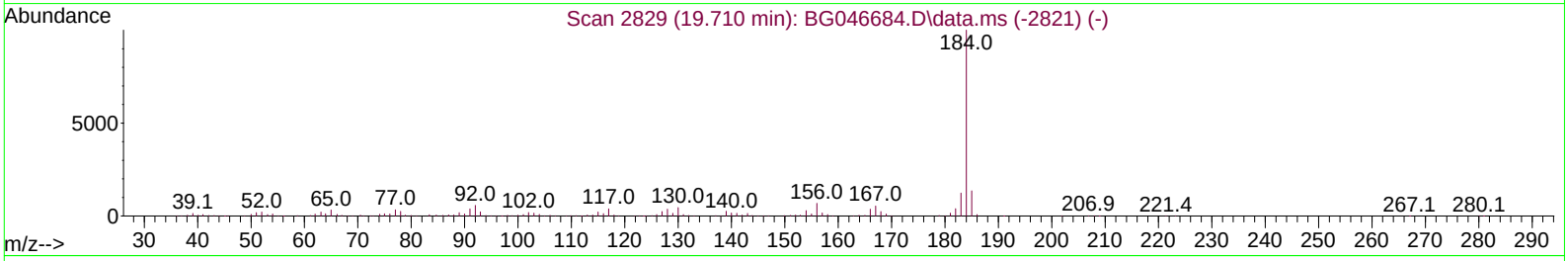
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035349.D
Acq On : 27 Nov 2024 14:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 28 04:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 28 04:07:30 2024
Response via : Initial Calibration







TIC: BN035349.D\data.ms

(77) Benzidine

19.028min (0.000) 0.00 ng

response 1733630

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.34
183.00	13.20	12.42
0.00	0.00	0.00

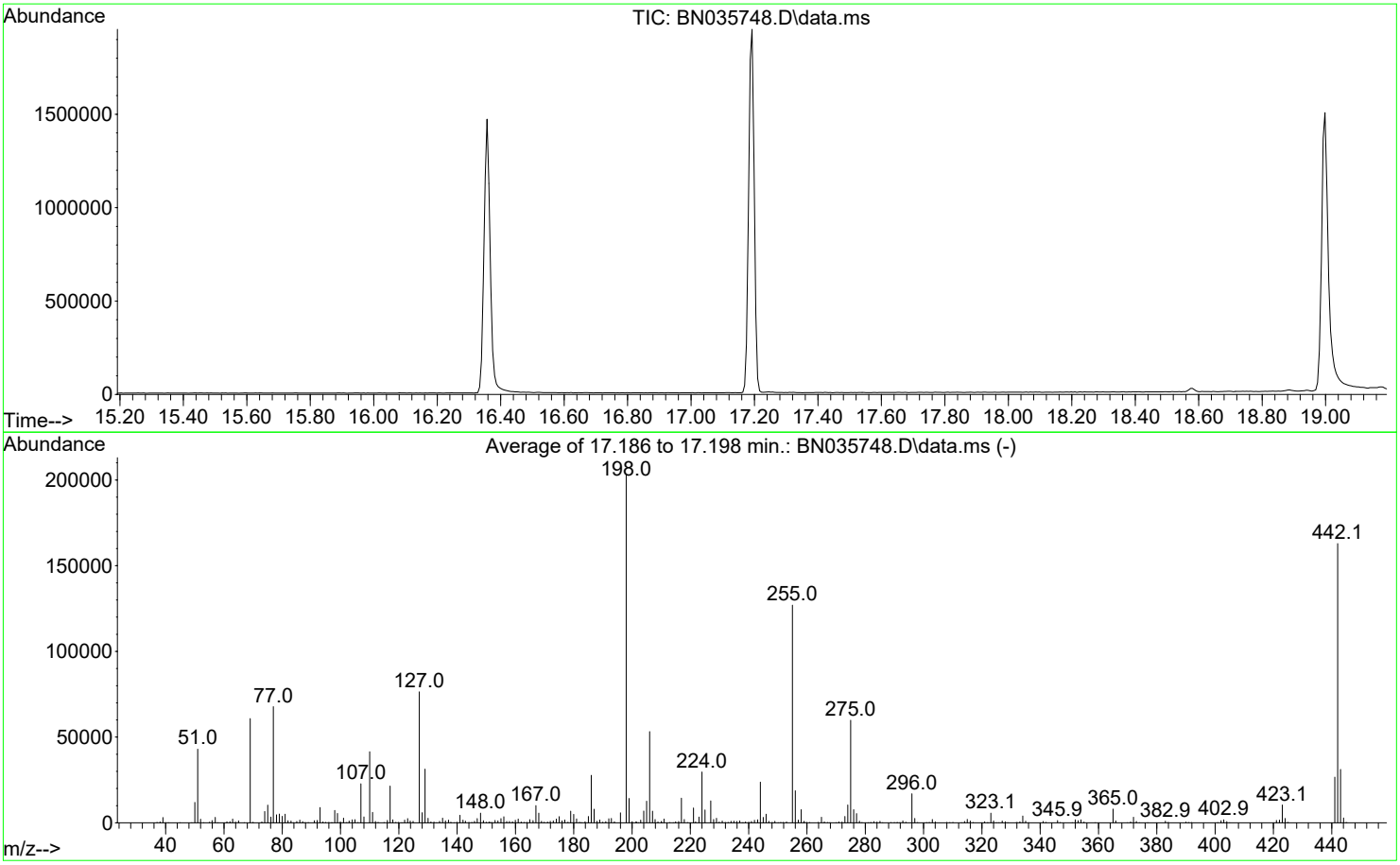
Sample Results: **BN035748.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 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 2431, 2432, 2433; Background Corrected with Scan 2424

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	21.2	43029	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.0	60827	PASS
70	69	0.00	2	0.5	295	PASS
127	198	10	80	37.7	76443	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	202901	PASS
199	198	5	9	7.0	14189	PASS
275	198	10	60	29.5	59856	PASS
365	198	1	100	4.0	8044	PASS
441	198	0.01	100	13.1	26624	PASS
442	442	50	100	100.0	162944	PASS
443	442	15	24	19.1	31128	PASS

DDT Breakdown

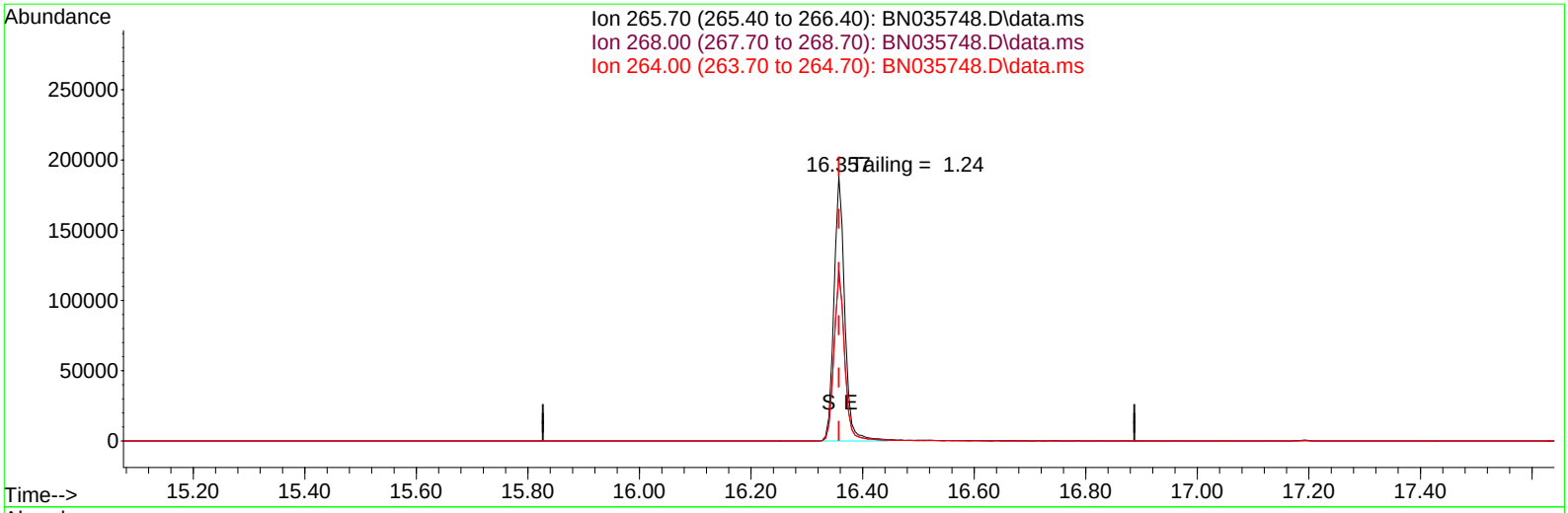
Date	Instrument Name	DFTPP Data File
12/19/2024	BNA_N	BN035748.D
Compound Name	**Response**	**Retention Time**
DDT	418200	20.257
DDD	184217	19.816
DDE	2622	19.292
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
186839	605039	30.88

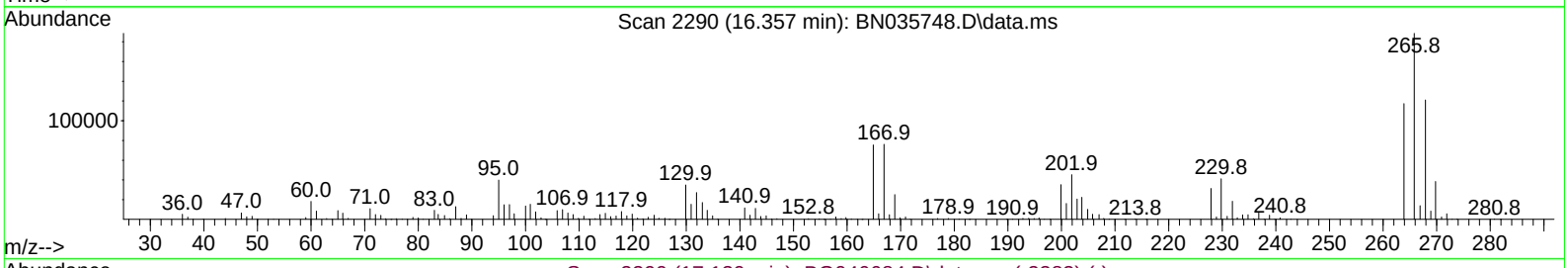
Instrument :
BNA_N
ClientSampleId :
DFTPP

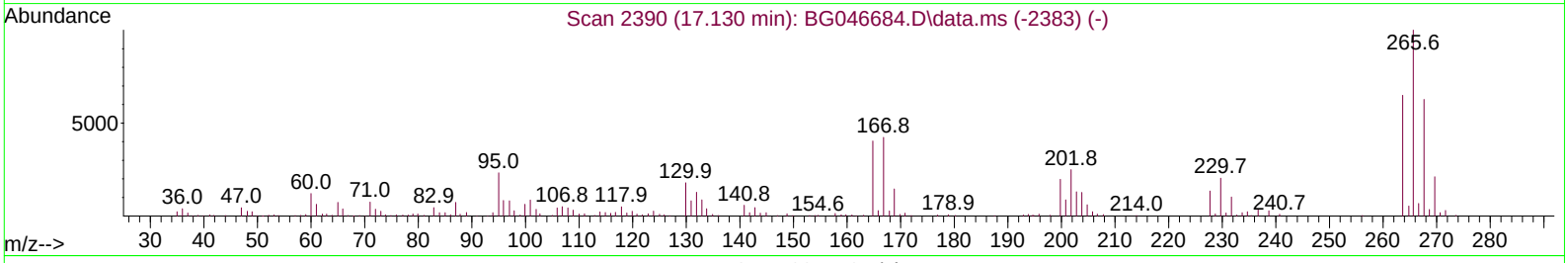
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 21 02:12:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 21 02:12:53 2024
Response via : Initial Calibration







TIC: BN035748.D\data.ms

(70) Pentachlorophenol (C)

16.357min (0.000) 26492.80 ng

response 255312

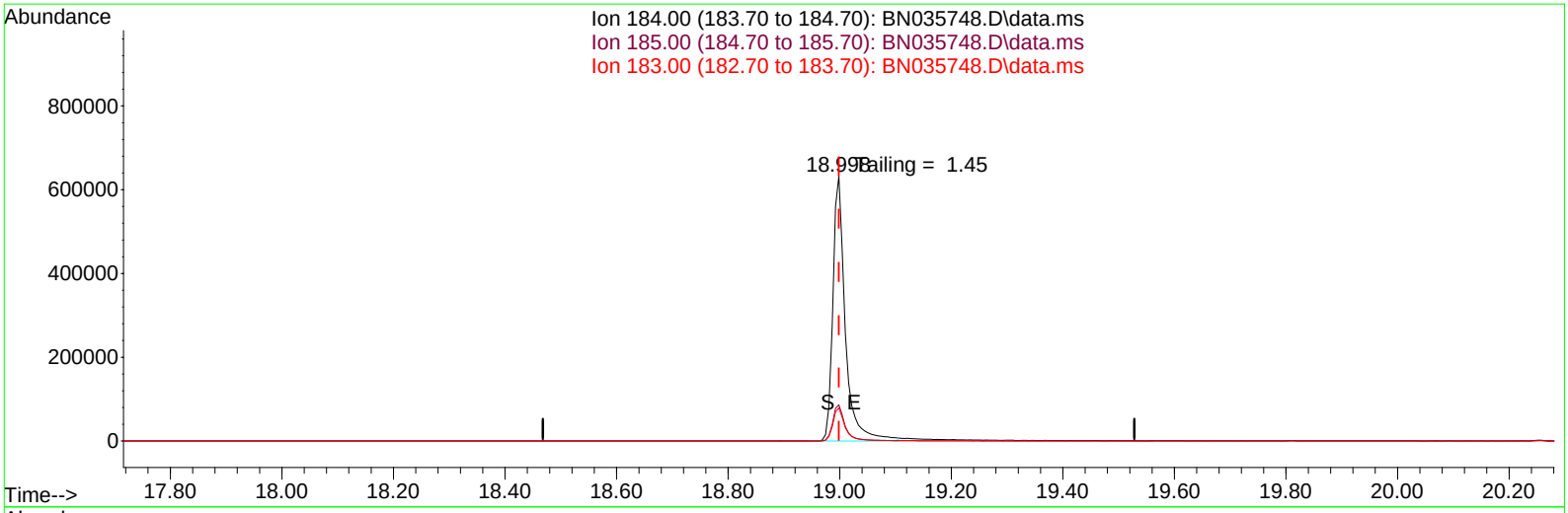
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.24
264.00	61.60	62.22
0.00	0.00	0.00

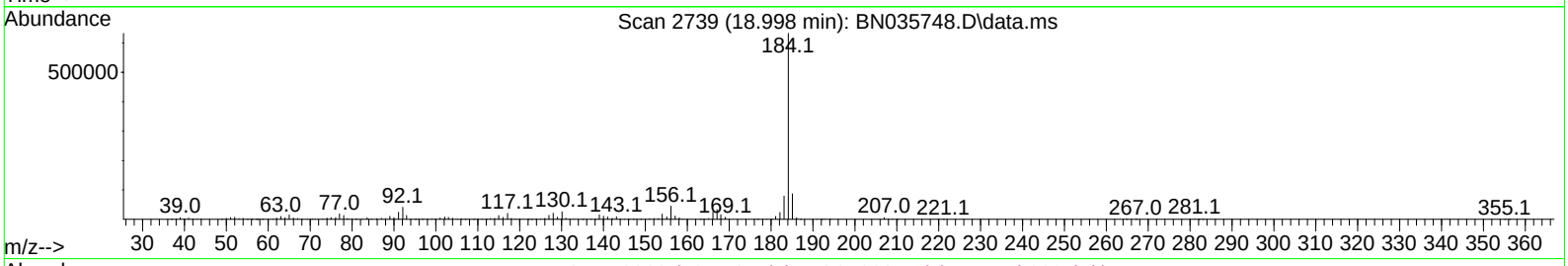
Sample Results: **BN035748.D**

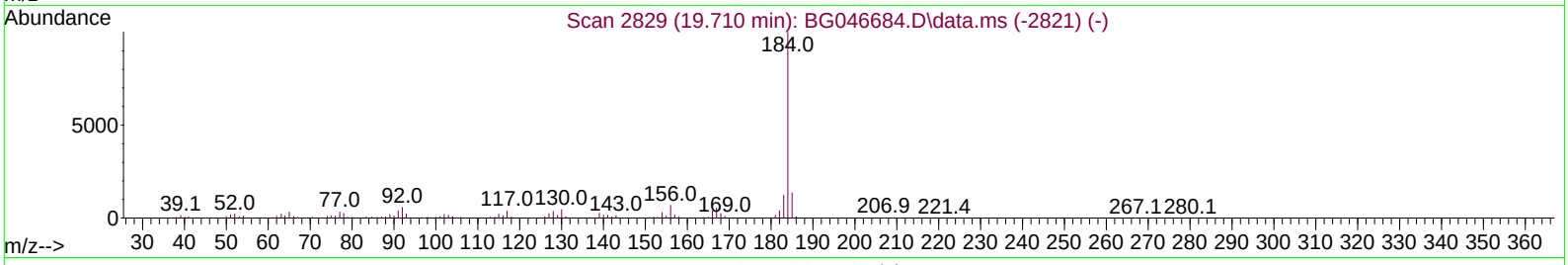
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035748.D
Acq On : 20 Dec 2024 18:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 21 02:12:58 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Dec 21 02:12:53 2024
Response via : Initial Calibration







TIC: BN035748.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 1005370

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.70
183.00	13.20	12.52
0.00	0.00	0.00

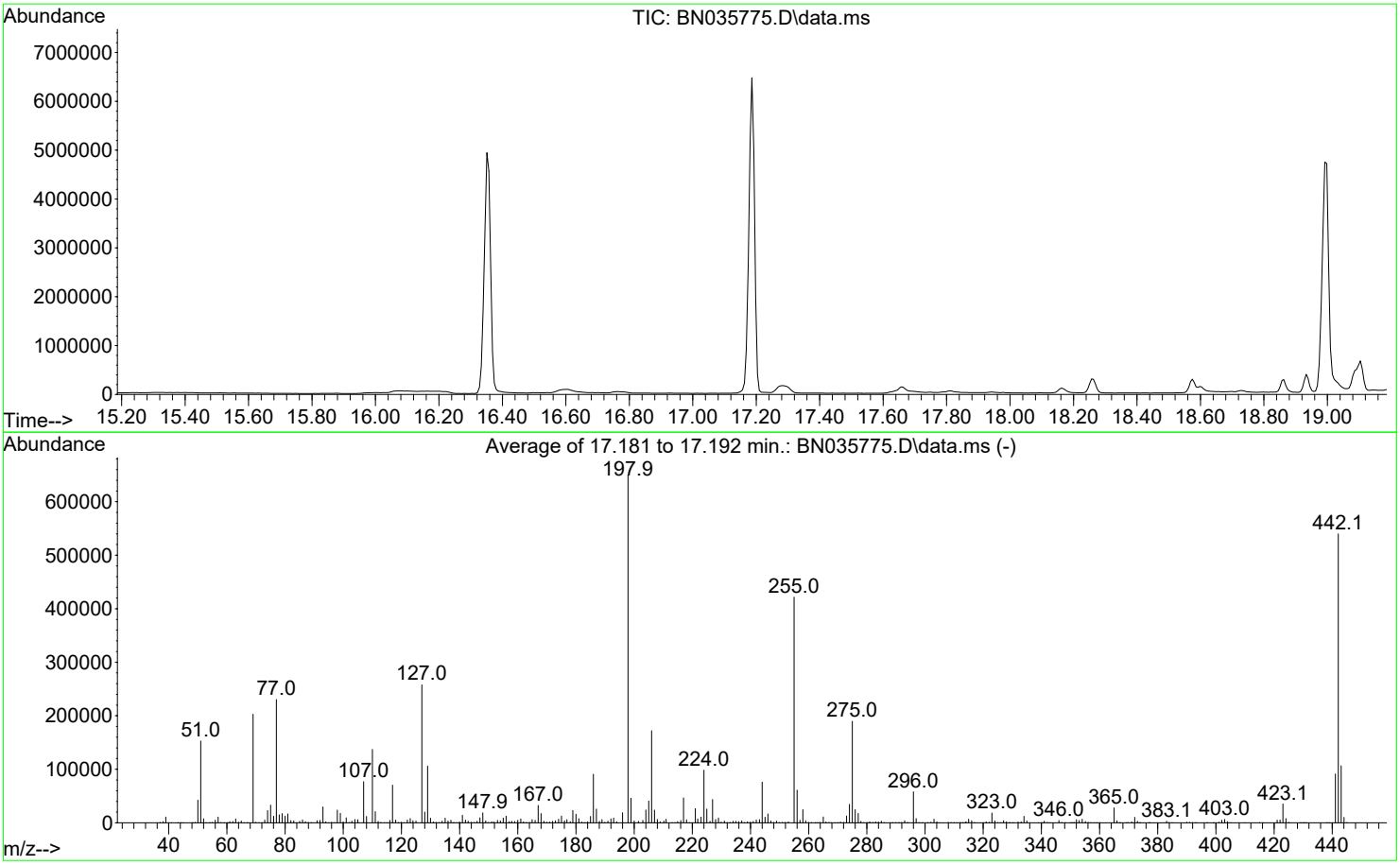
Sample Results: **BN035775.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 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 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	23.6	153048	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.2	202884	PASS
70	69	0.00	2	0.6	1170	PASS
127	198	10	80	39.7	257941	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	649856	PASS
199	198	5	9	7.1	46155	PASS
275	198	10	60	29.2	189589	PASS
365	198	1	100	4.3	28056	PASS
441	198	0.01	100	14.0	91216	PASS
442	442	50	100	100.0	539989	PASS
443	442	15	24	19.7	106520	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/23/2024	BNA_N	BN035775.D
Compound Name	**Response**	**Retention Time**
DDT	1726374	20.251
DDD	285443	19.804
DDE	9189	19.286
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
294632	2021006	14.58

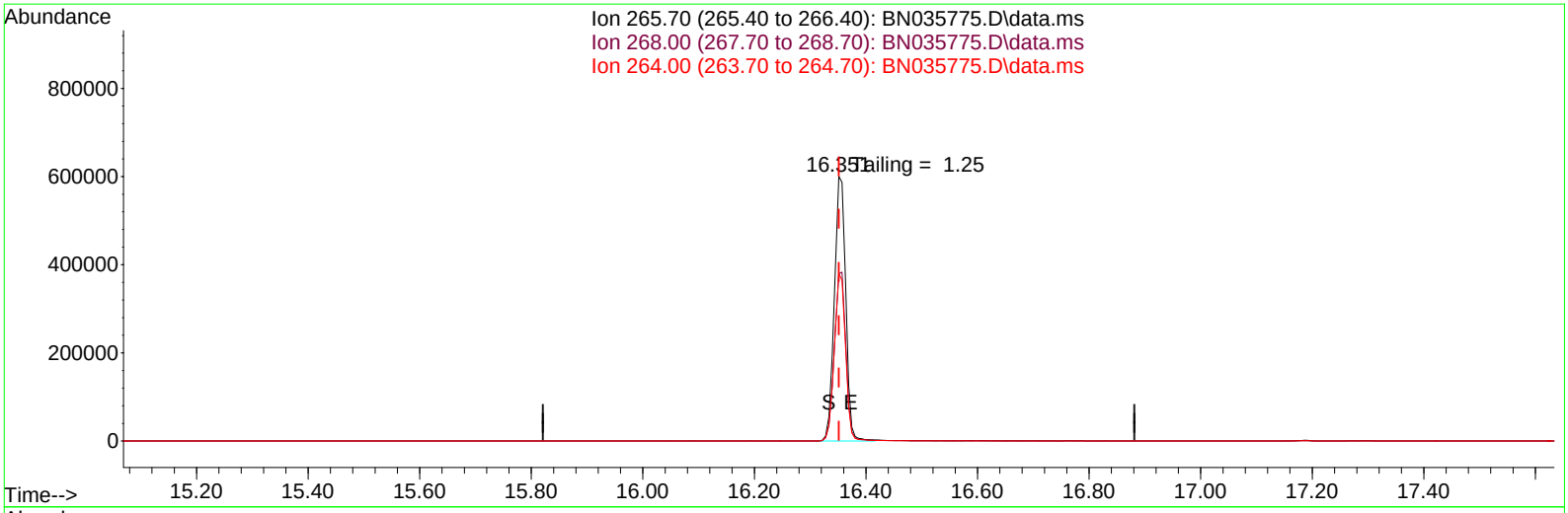
Instrument :
BNA_N
ClientSampleId :
DFTPP

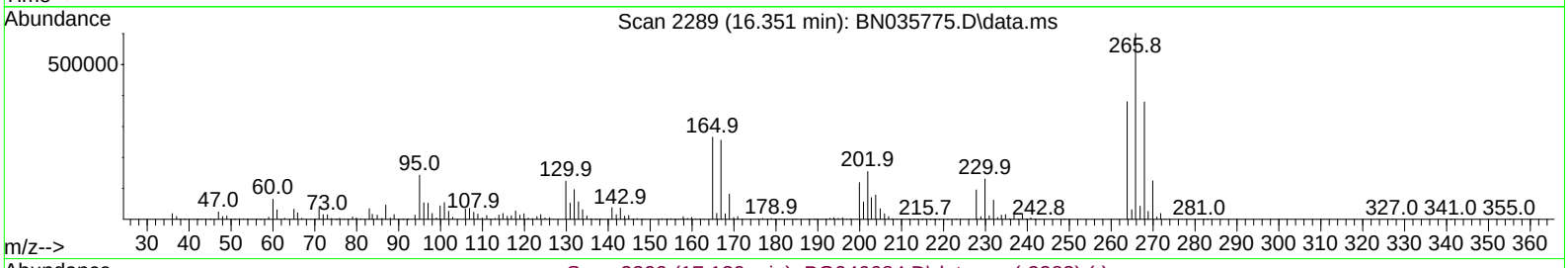
Sample Results: **BN035775.D**

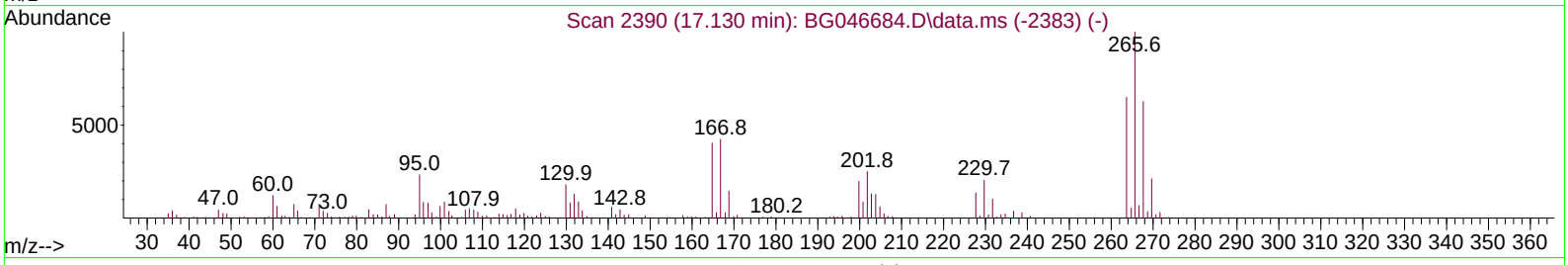
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration







TIC: BN035775.D\data.ms

(70) Pentachlorophenol (C)

16.351min (0.000) 26248.44 ng

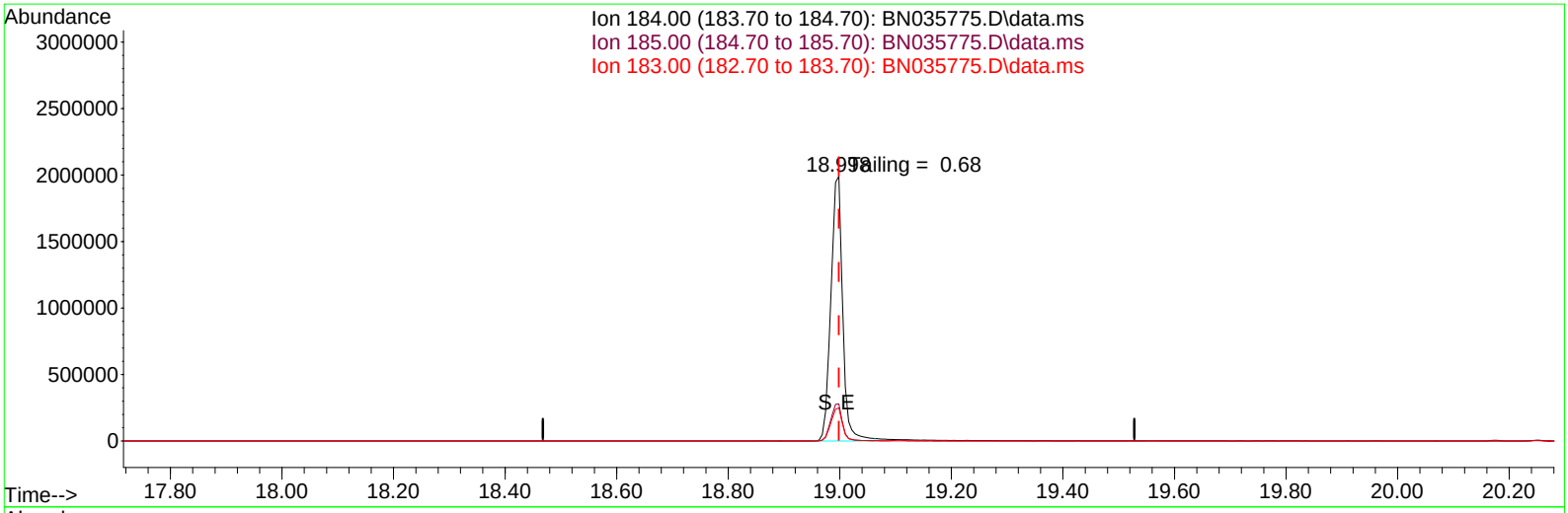
response 857335

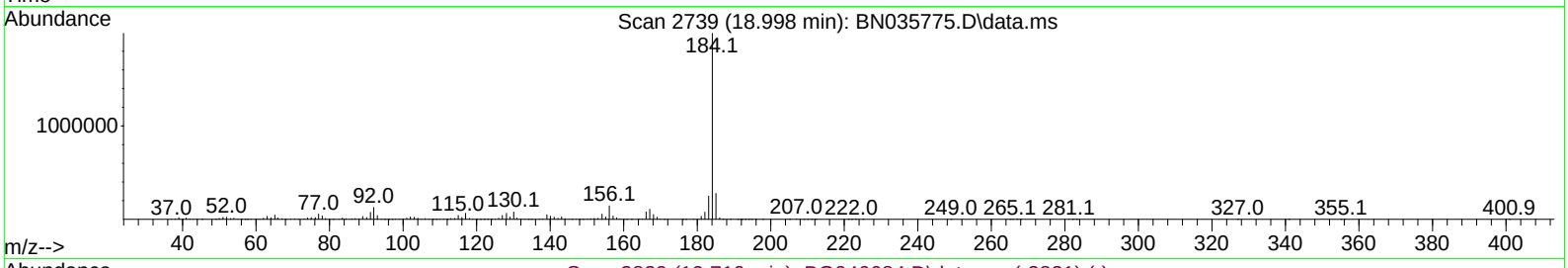
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.12
264.00	61.60	63.23
0.00	0.00	0.00

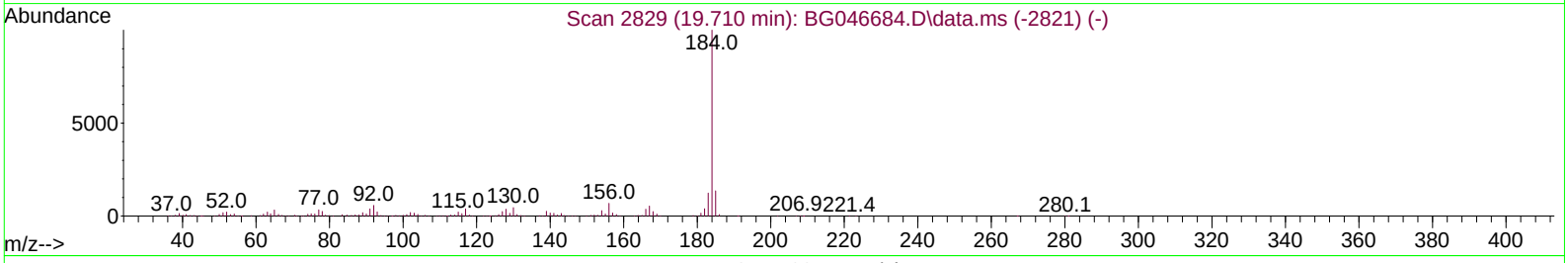
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035775.D
Acq On : 23 Dec 2024 09:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 57 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 24 06:25:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Dec 24 06:24:48 2024
Response via : Initial Calibration







TIC: BN035775.D\data.ms

(77) Benzidine

18.998min (0.000) 0.00 ng

response 2997835

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.00
183.00	13.20	12.55
0.00	0.00	0.00

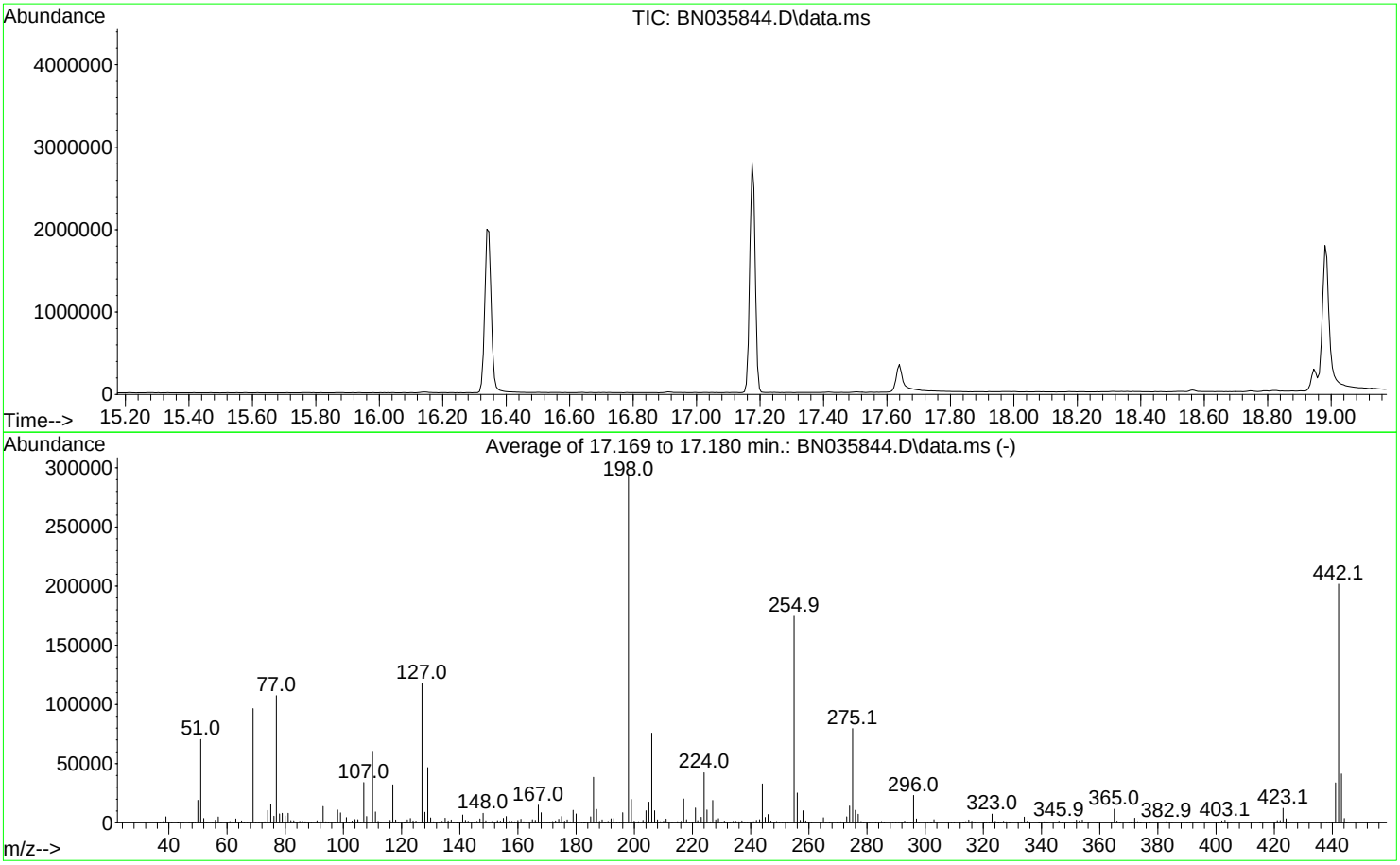
Sample Results: **BN035844.D**

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

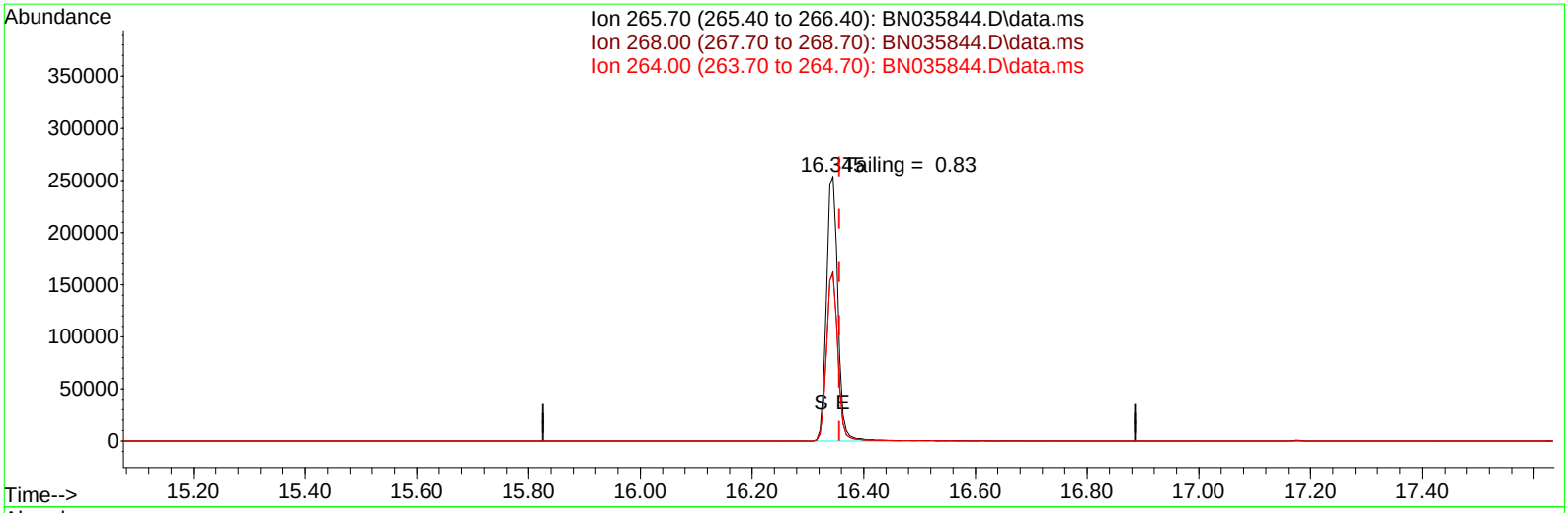
Instrument :
BNA_N
ClientSampleId :
DFTPP

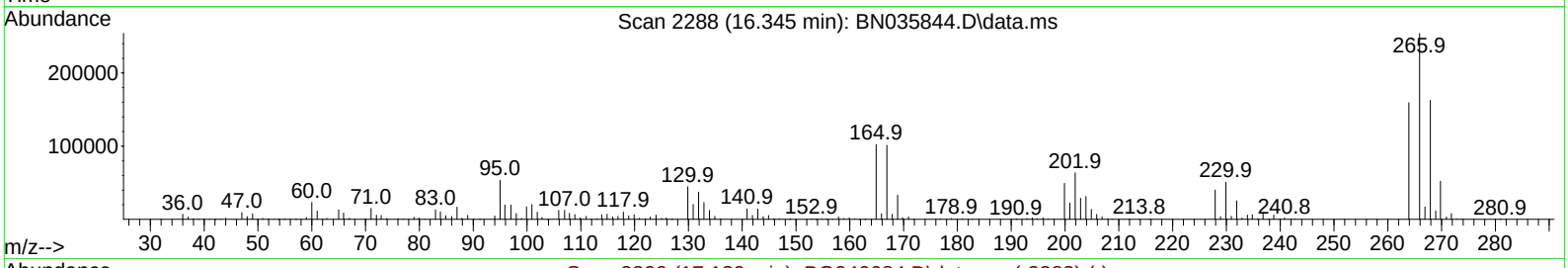
Sample Results: **BN035844.D**

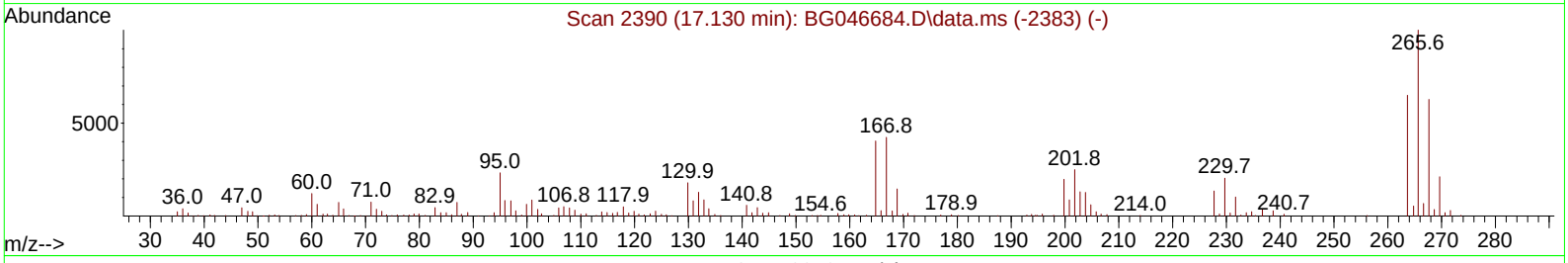
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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







TIC: BN035844.D\data.ms

(70) Pentachlorophenol (C)

16.345min (-0.011) 24950.02 ng

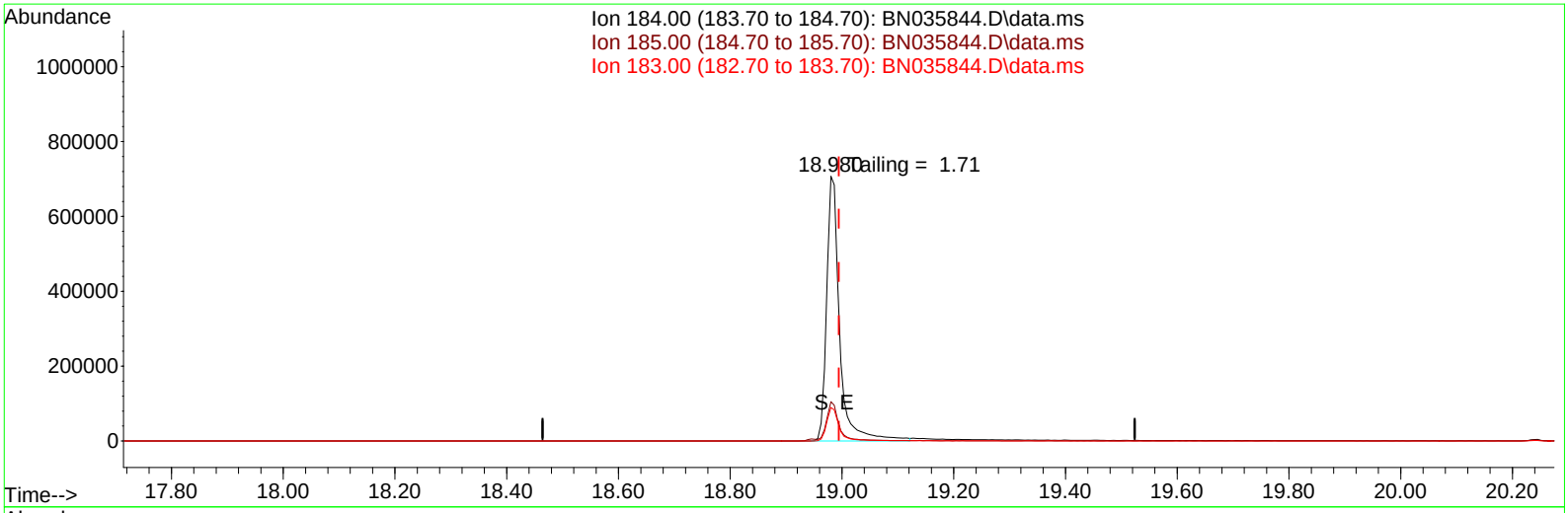
response 363016

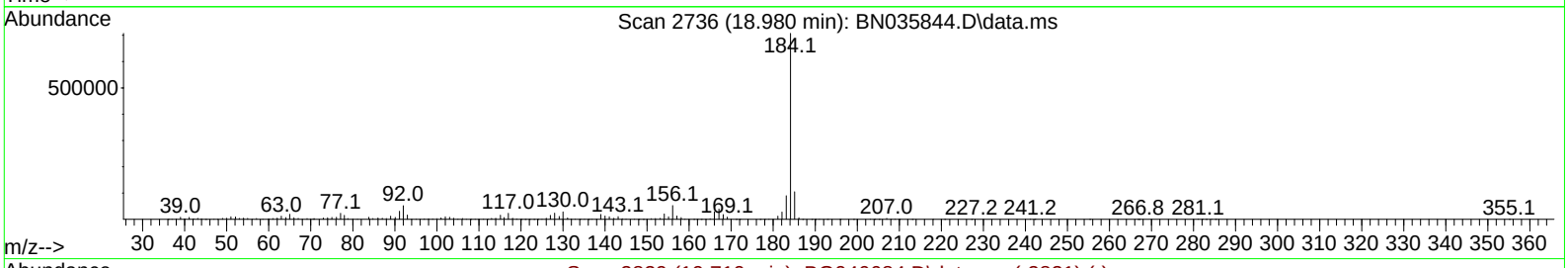
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.03
264.00	61.60	62.72
0.00	0.00	0.00

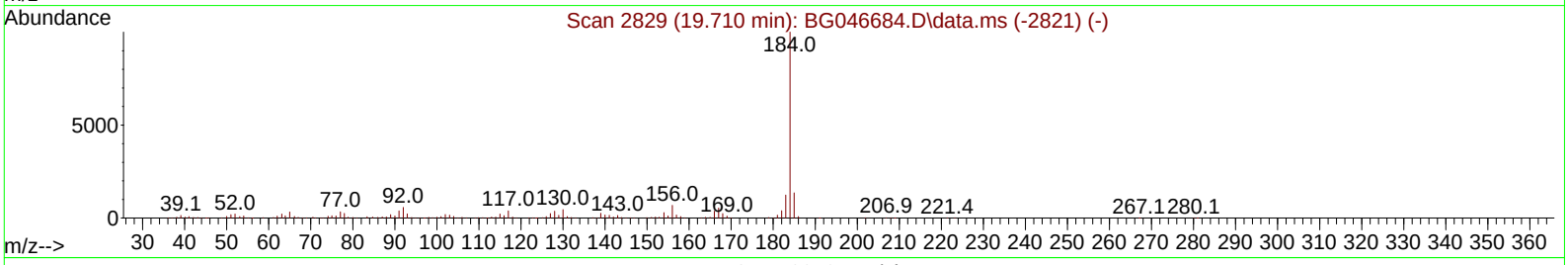
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035844.D
Acq On : 26 Dec 2024 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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: **BN035846.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:	PB165724BL	SDG No.:	P5314
Lab Sample ID:	PB165724BL	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
BN035846.D	1	12/18/24 12:50	12/26/24 10:35	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		95%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.46	*	55 - 111		114%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	4510	7.257				
1146-65-2	Naphthalene-d8	10600	9.999				
15067-26-2	Acenaphthene-d10	6580	13.924				
1517-22-2	Phenanthrene-d10	14100	16.698				
1719-03-5	Chrysene-d12	10300	20.947				
1520-96-3	Perylene-d12	9890	23.029				

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: **BN035846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 27 00:40:22 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 :
PB165724BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.257	152	4513	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	10649	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	6575	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	14052	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	10269	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	9894	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3643	0.323	ng	-0.01
5) Phenol-d6	6.470	99	3773	0.278	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2970m	0.457	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6172	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	975	0.209	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9551	0.384	ng	-0.01
27) Fluoranthene-d10	18.747	212	15078	0.379	ng	-0.01
31) Terphenyl-d14	19.375	244	10893	0.538	ng	-0.01
Target Compounds						Qvalue

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

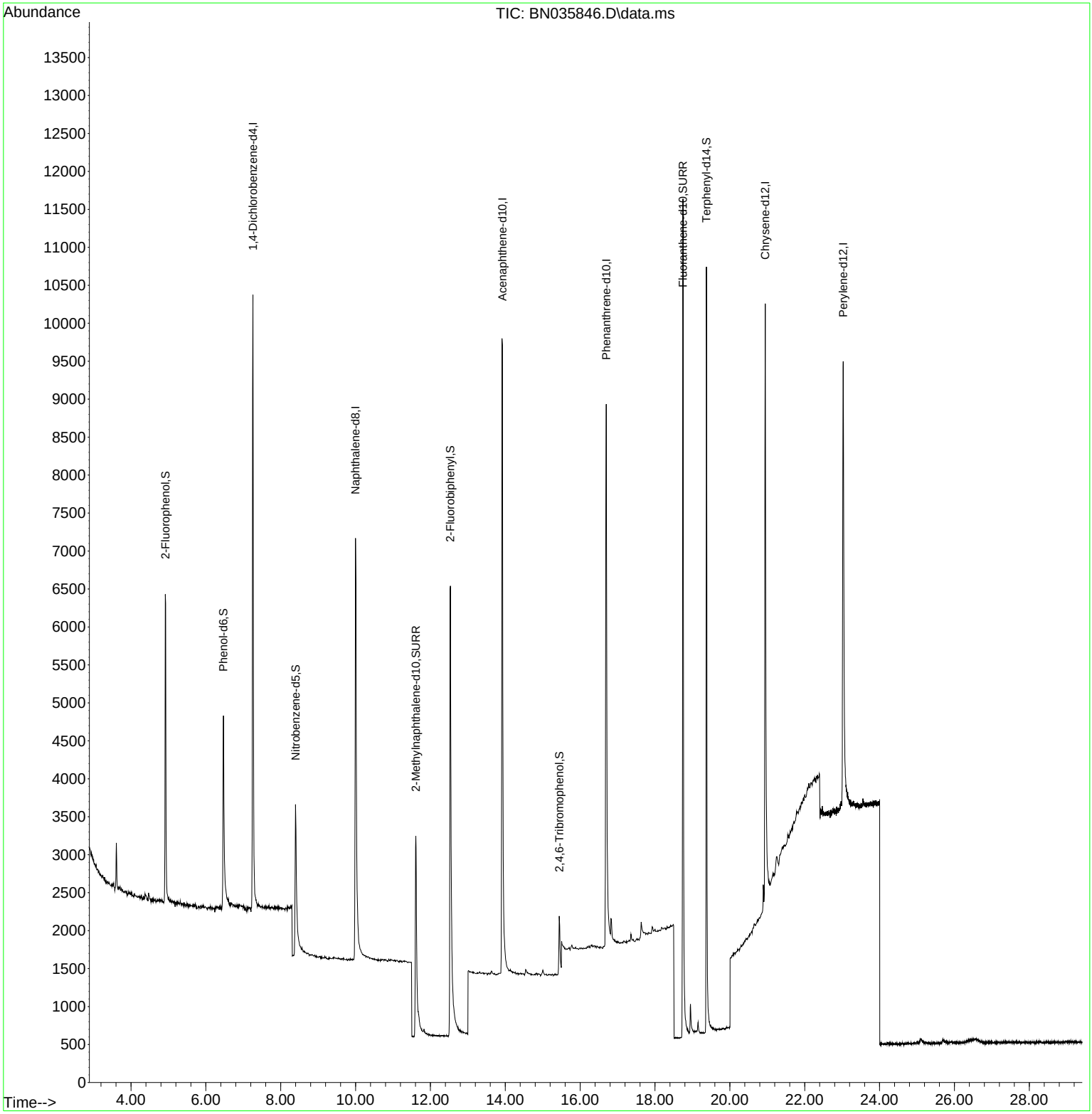
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

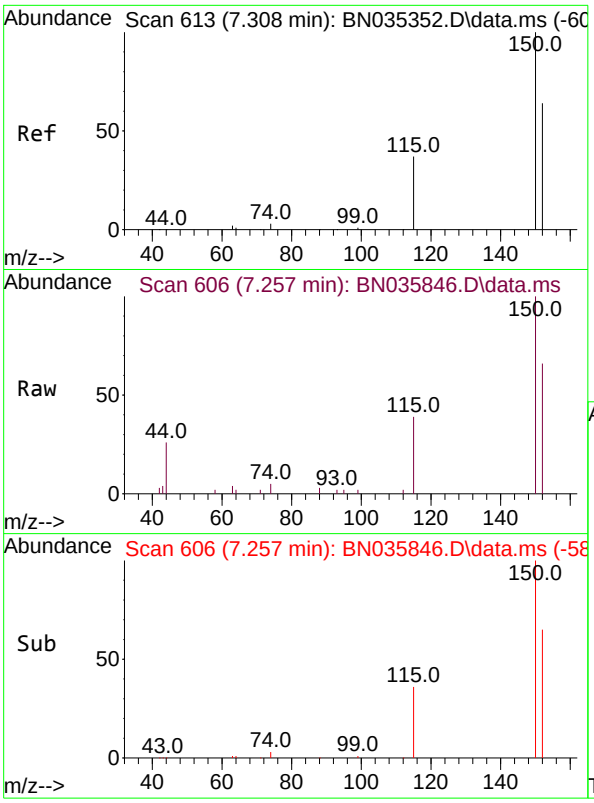
Quant Time: Dec 27 00:40:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

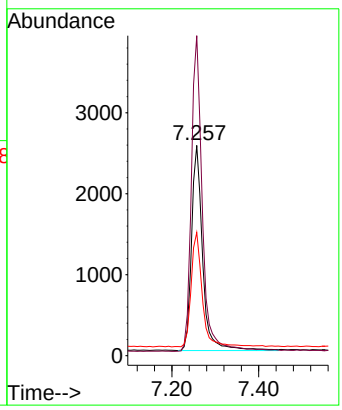




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:152 Resp: 451

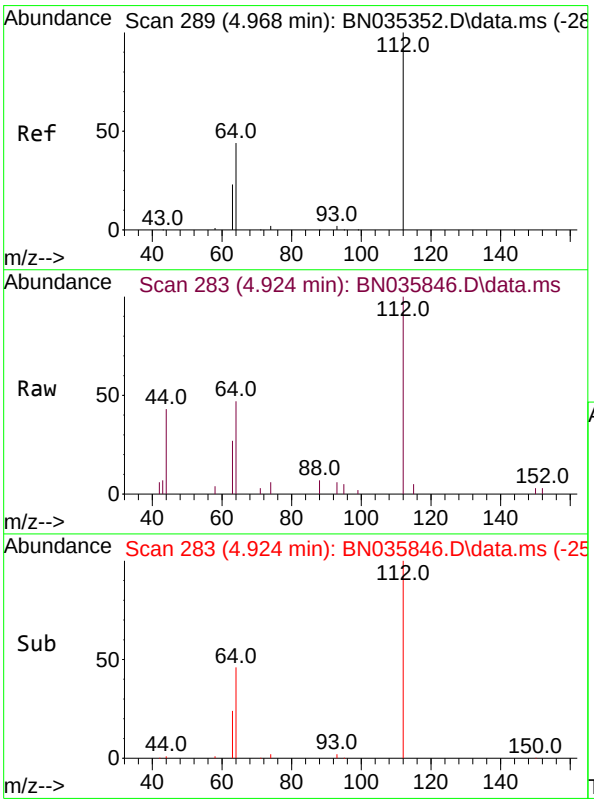
Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	58.6	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

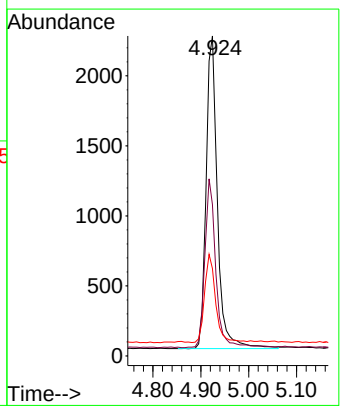
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

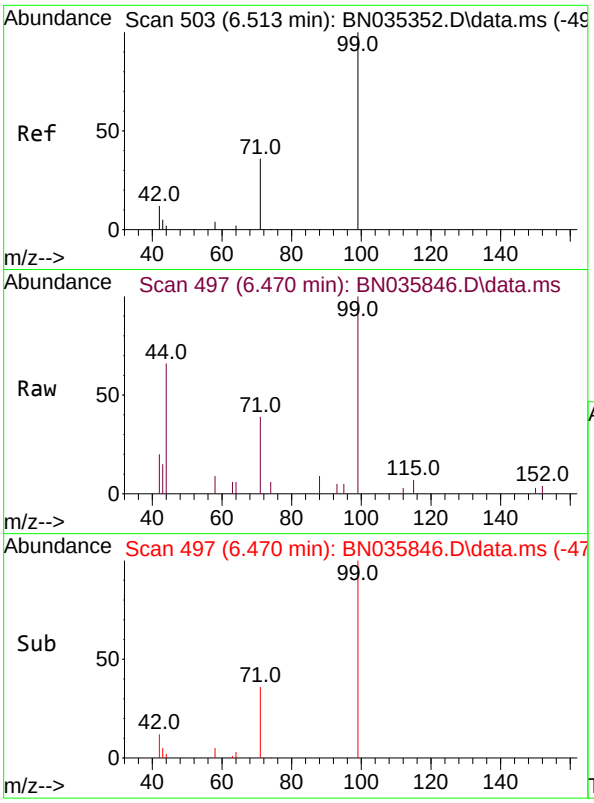


#4
2-Fluorophenol
Concen: 0.323 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:112 Resp: 3643

Ion	Ratio	Lower	Upper
112	100		
64	52.8	39.8	59.8
63	27.4	21.0	31.6

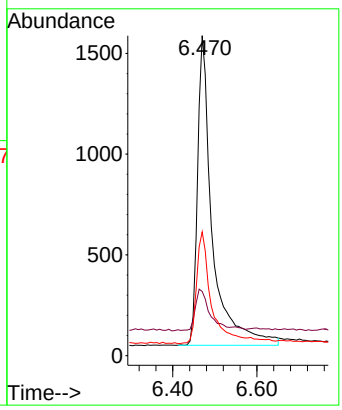




#5
Phenol-d6
Concen: 0.278 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion: 99 Resp: 377

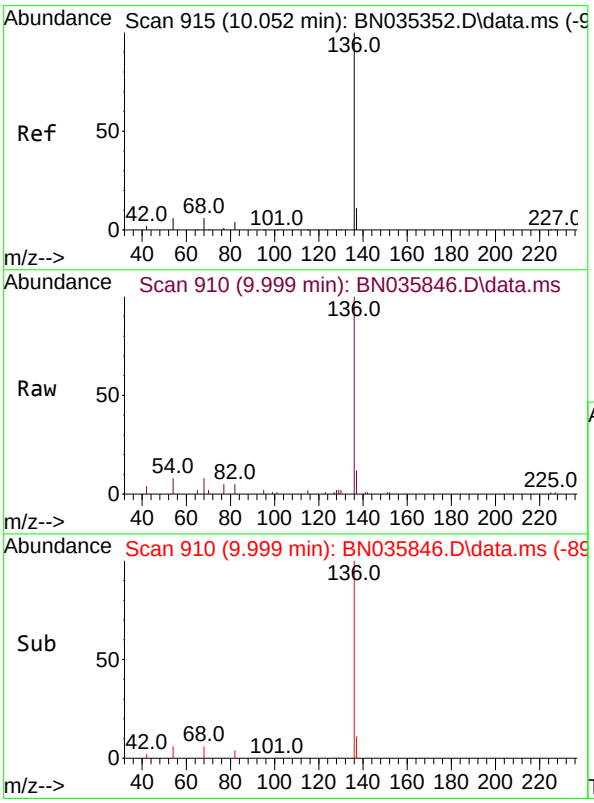
Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	37.4	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

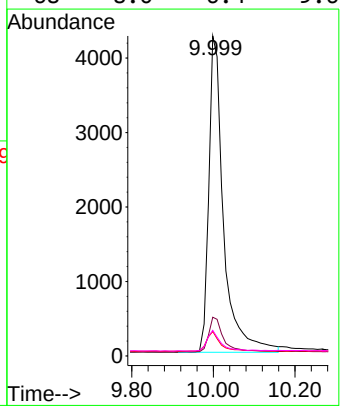
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

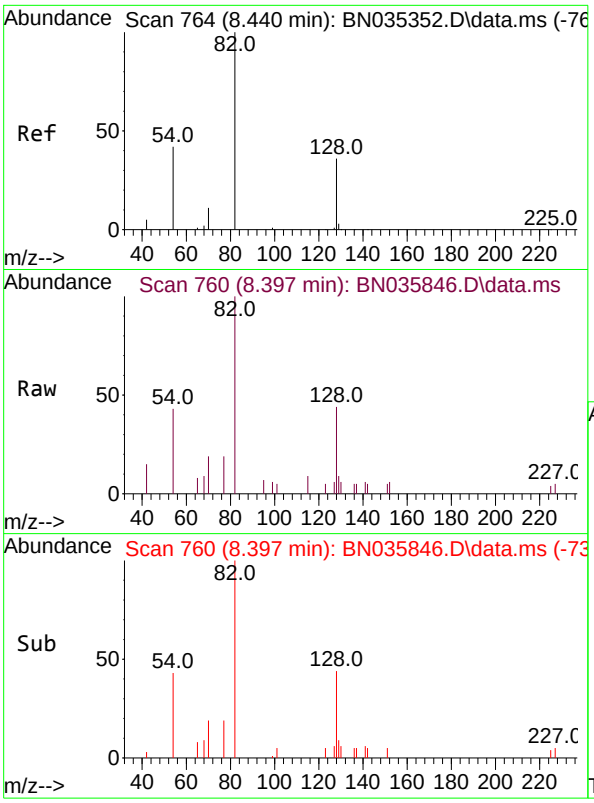


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:136 Resp: 10649

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6

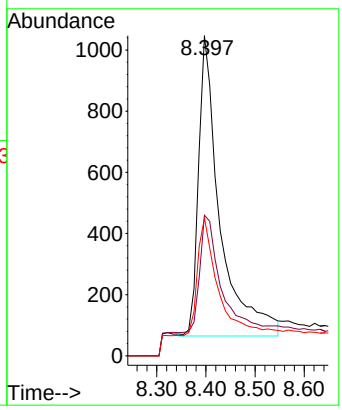




#8
Nitrobenzene-d5
Concen: 0.457 ng m
RT: 8.397 min Scan# 7(
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion: 82 Resp: 297(

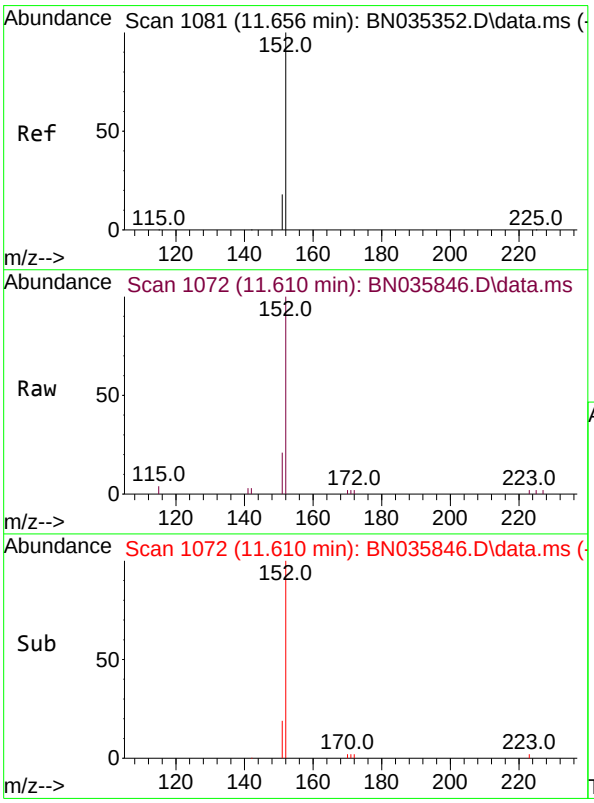
Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	43.1	36.7	55.1



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

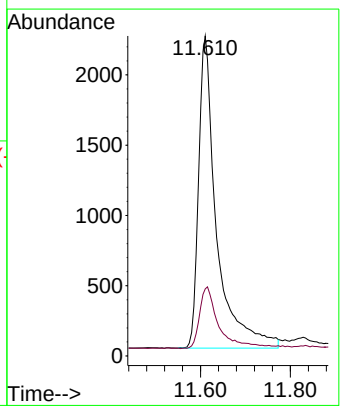
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

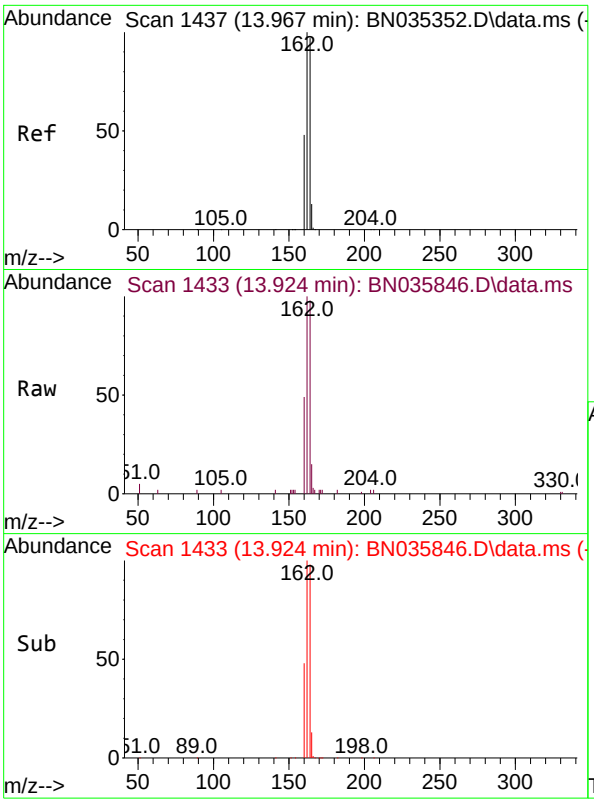


#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:152 Resp: 6172

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0

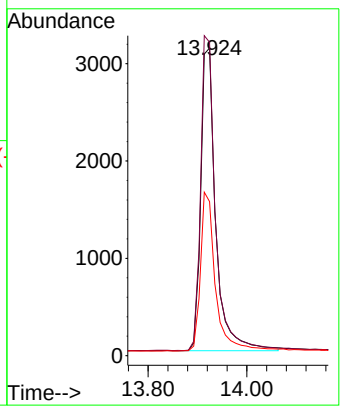




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:164 Resp: 657

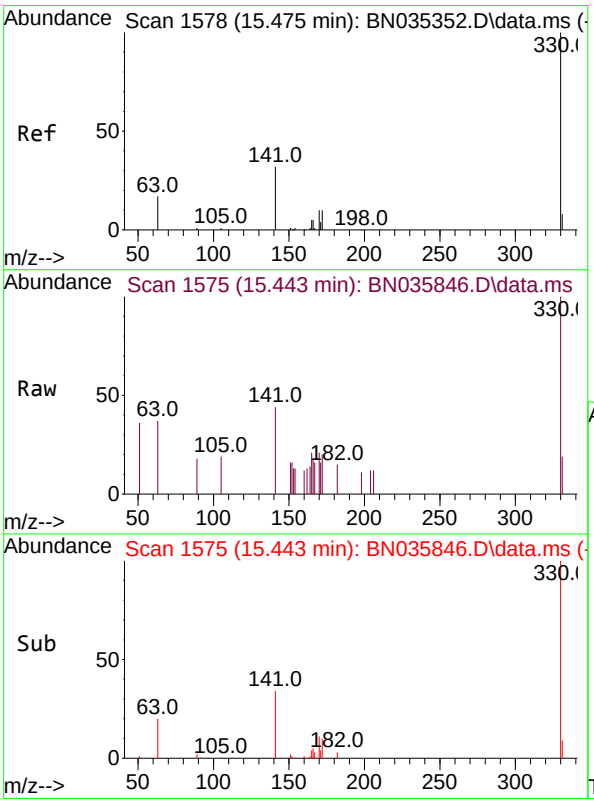
Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.2	123.2
160	50.1	40.1	60.1



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

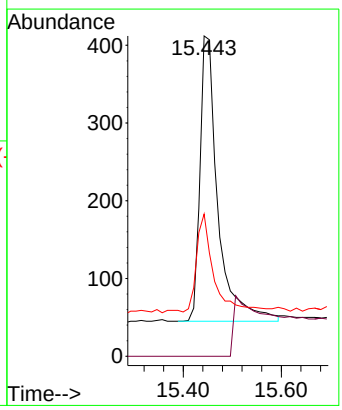
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

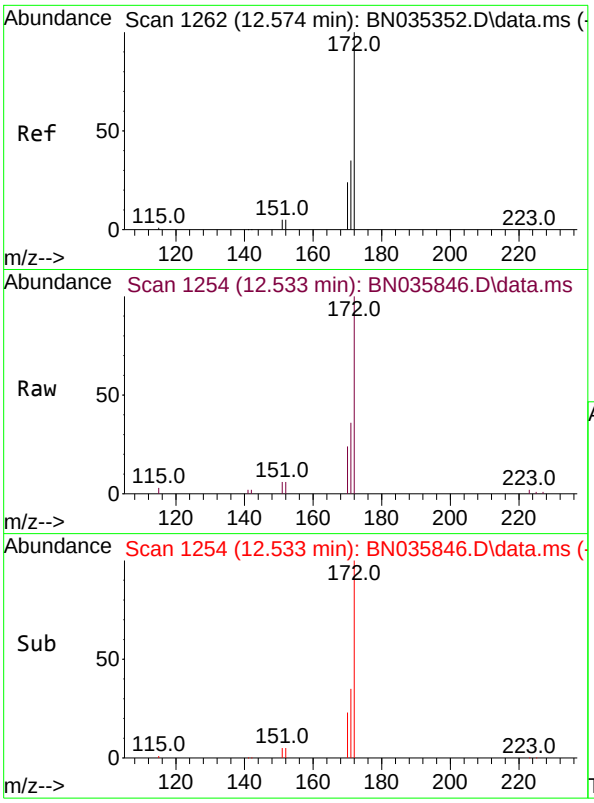


#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.3	26.6	40.0

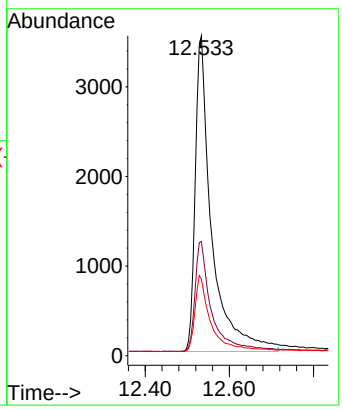




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:172 Resp: 955

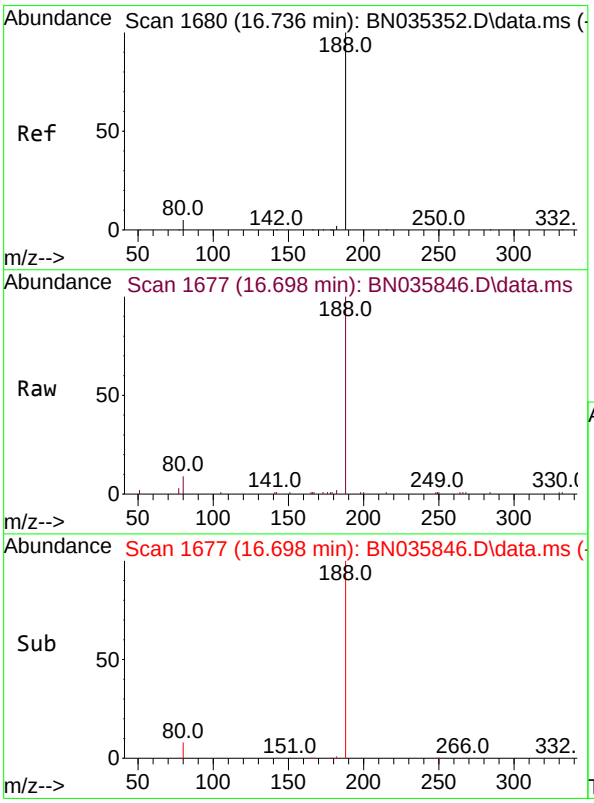
Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.0	19.8	29.8



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

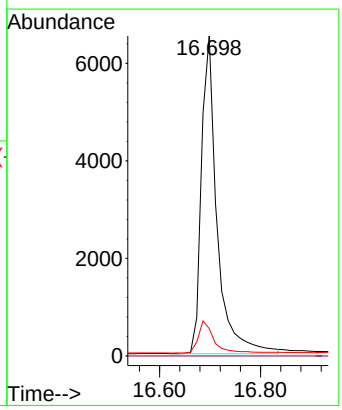
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

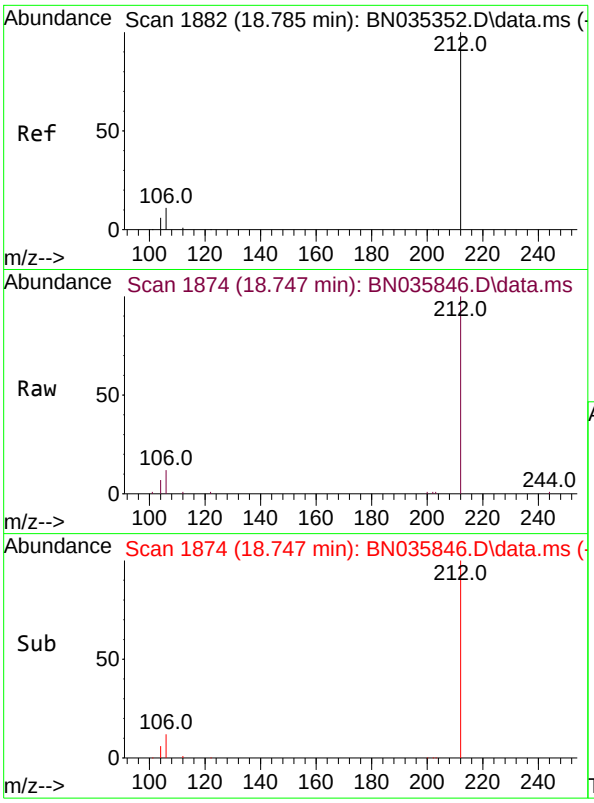


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:188 Resp: 14052

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	4.6	6.8#

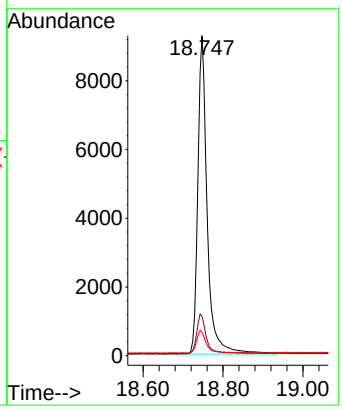




#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:212 Resp: 1507

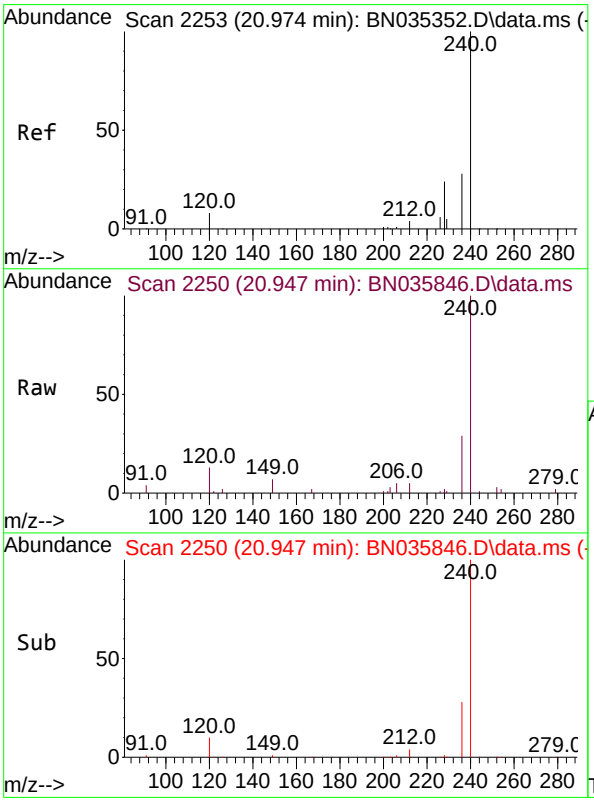
Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.2	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

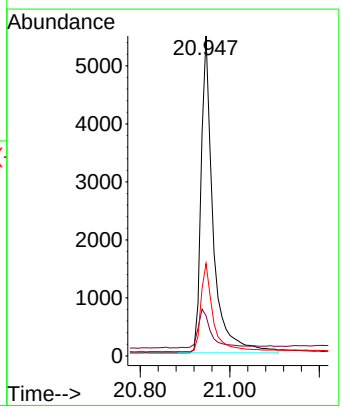
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024

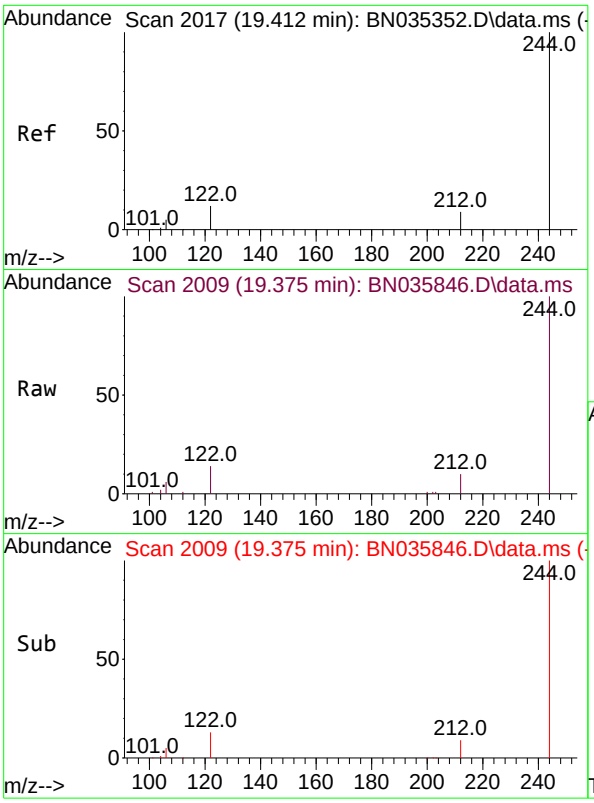


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:240 Resp: 10269

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9#
236	28.9	22.9	34.3

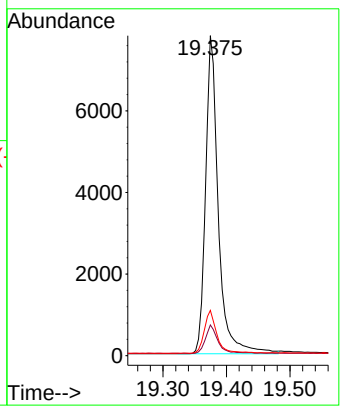




#31
Terphenyl-d14
Concen: 0.538 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:244 Resp: 1089

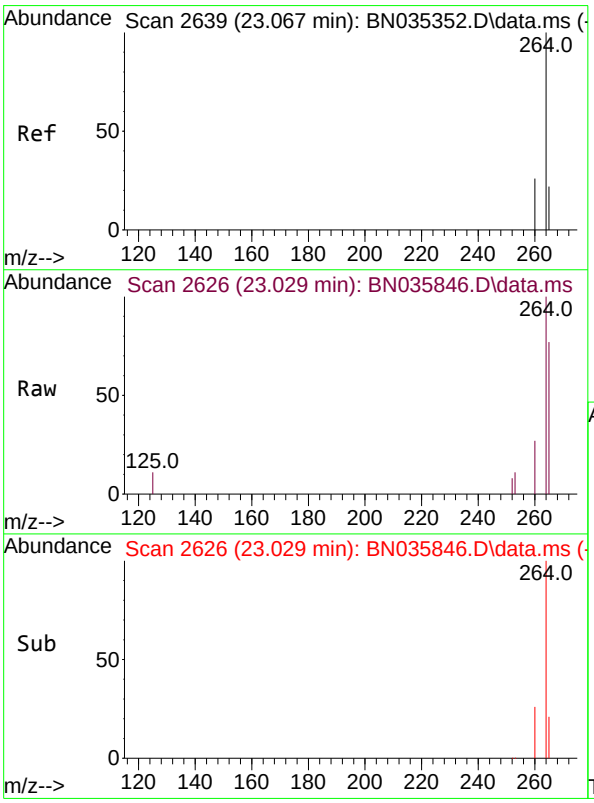
Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	14.2	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165724BL

Manual Integrations
APPROVED

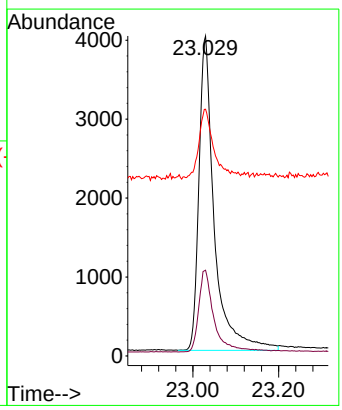
Reviewed By :Yogesh Patel 12/30/2024
Supervised By :mohammad ahmed 12/30/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2626
Delta R.T. -0.012 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:264 Resp: 9894

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	77.1	40.2	60.4#



Raw Data: **BN035764.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:	PB165724BS	SDG No.:	P5314
Lab Sample ID:	PB165724BS	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
BN035764.D	1	12/18/24 12:50	12/21/24 04:34	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.48		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.56		30 - 150		139%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		109%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.50	*	55 - 111		125%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.46	*	53 - 106		115%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2650	7.271				
1146-65-2	Naphthalene-d8	6540	10.009				
15067-26-2	Acenaphthene-d10	3740	13.924				
1517-22-2	Phenanthrene-d10	6890	16.698				
1719-03-5	Chrysene-d12	6140	20.955				
1520-96-3	Perylene-d12	6580	23.041				

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\BN121924\
Data File : BN035764.D
Acq On : 21 Dec 2024 04:34
Operator : RC/JU
Sample : PB165724BS
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Quant Time: Dec 21 05:09:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.271	152	2647	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6538	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3740	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	6891	0.400	ng	# 0.00
29) Chrysene-d12	20.955	240	6144	0.400	ng	0.00
35) Perylene-d12	23.041	264	6576	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	2510	0.379	ng	0.00
5) Phenol-d6	6.484	99	2665	0.334	ng	0.00
8) Nitrobenzene-d5	8.407	82	2003m	0.502	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	5689	0.556	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	453	0.171	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6506	0.460	ng	0.00
27) Fluoranthene-d10	18.761	212	8504	0.435	ng	0.00
31) Terphenyl-d14	19.393	244	6077	0.501	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1209	0.478	ng	# 64
3) n-Nitrosodimethylamine	3.270	42	1089	0.517	ng	# 97
6) bis(2-Chloroethyl)ether	6.722	93	2779	0.415	ng	99
9) Naphthalene	10.062	128	7464	0.433	ng	99
10) Hexachlorobutadiene	10.351	225	1928	0.485	ng	# 99
12) 2-Methylnaphthalene	11.691	142	4846	0.393	ng	97
16) Acenaphthylene	13.636	152	6779	0.432	ng	99
17) Acenaphthene	13.988	154	4529	0.434	ng	98
18) Fluorene	14.993	166	5492	0.368	ng	100
20) 4,6-Dinitro-2-methylph...	15.143	198	74	0.109	ng	# 1
21) 4-Bromophenyl-phenylether	15.916	248	1621	0.402	ng	# 92
22) Hexachlorobenzene	16.003	284	2441	0.516	ng	96
23) Atrazine	16.214	200	1272	0.443	ng	94
24) Pentachlorophenol	16.375	266	1192	0.579	ng	# 84
25) Phenanthrene	16.748	178	7957	0.420	ng	99
26) Anthracene	16.835	178	7046	0.412	ng	100
28) Fluoranthene	18.794	202	9671	0.379	ng	99
30) Pyrene	19.161	202	10032	0.442	ng	99
32) Benzo(a)anthracene	20.937	228	8148	0.379	ng	99
33) Chrysene	20.991	228	10584	0.478	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	3563m	0.420	ng	
36) Indeno(1,2,3-cd)pyrene	25.067	276	11390	0.443	ng	96
37) Benzo(b)fluoranthene	22.430	252	13899	0.578	ng	# 94
38) Benzo(k)fluoranthene	22.471	252	10950	0.462	ng	94
39) Benzo(a)pyrene	22.956	252	8888	0.449	ng	# 88
40) Dibenzo(a,h)anthracene	25.090	278	8351	0.412	ng	95
41) Benzo(g,h,i)perylene	25.678	276	9596	0.453	ng	98

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

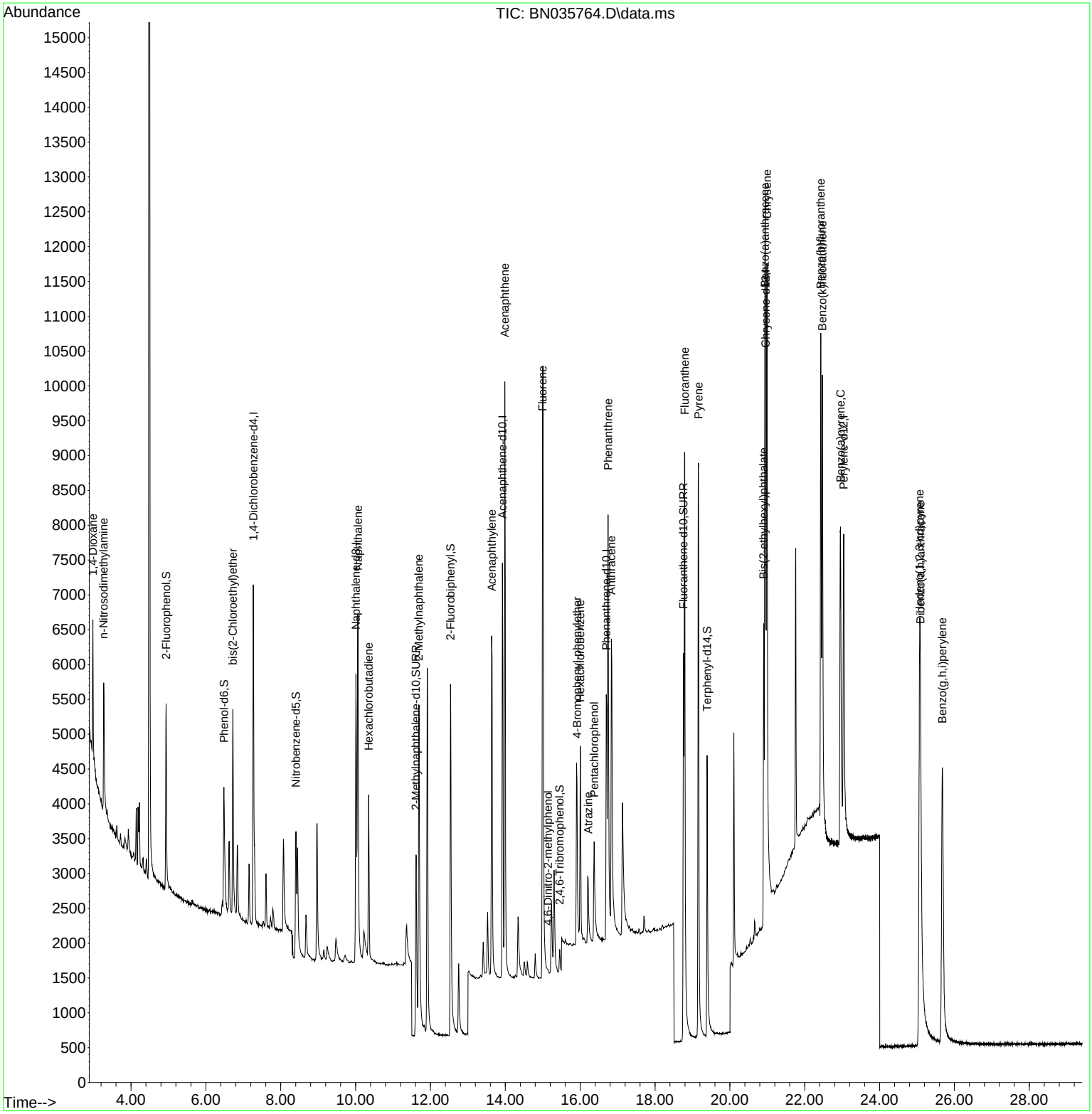
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035764.D
Acq On : 21 Dec 2024 04:34
Operator : RC/JU
Sample : PB165724BS
Misc :
ALS Vial : 55 Sample Multiplier: 1

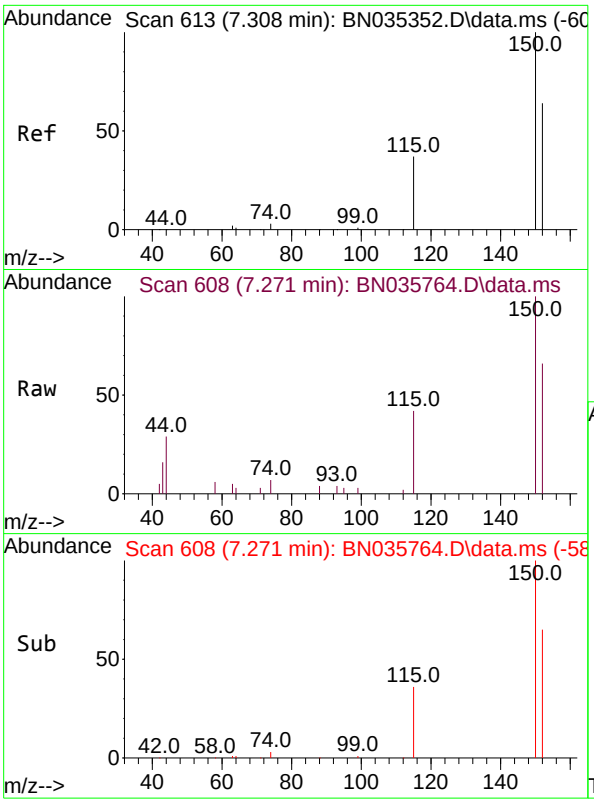
Quant Time: Dec 21 05:09:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

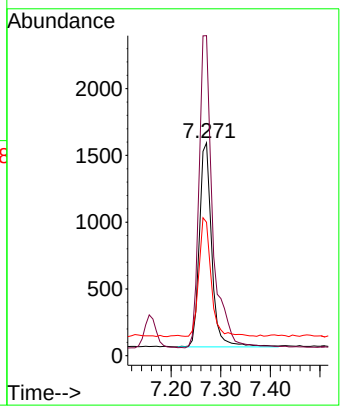




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 6(
Delta R.T. -0.001 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:152 Resp: 264

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	62.7	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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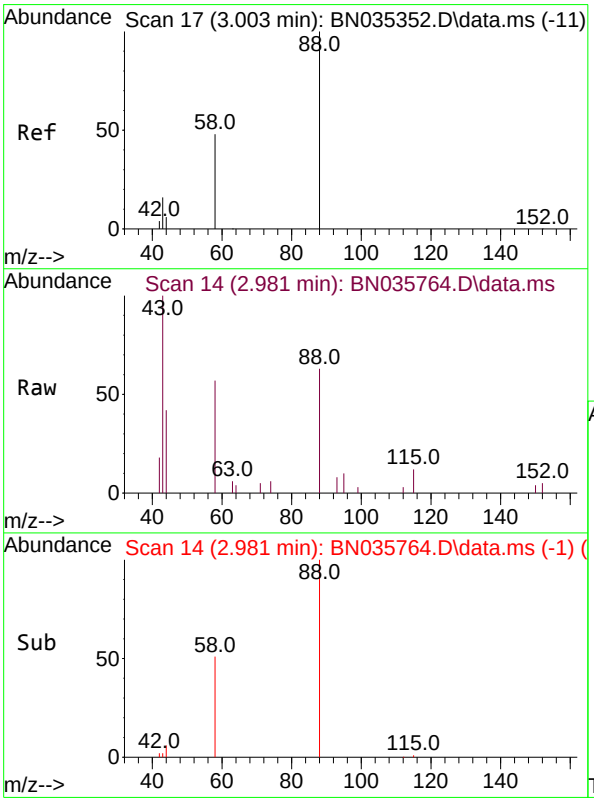
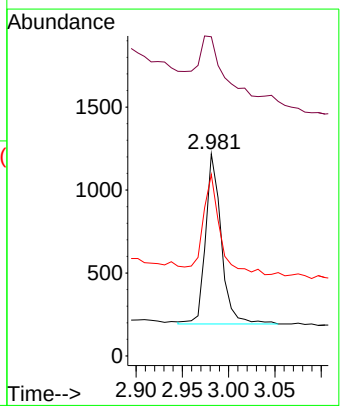
Supervised By :mohammad ahmed 12/24/2024

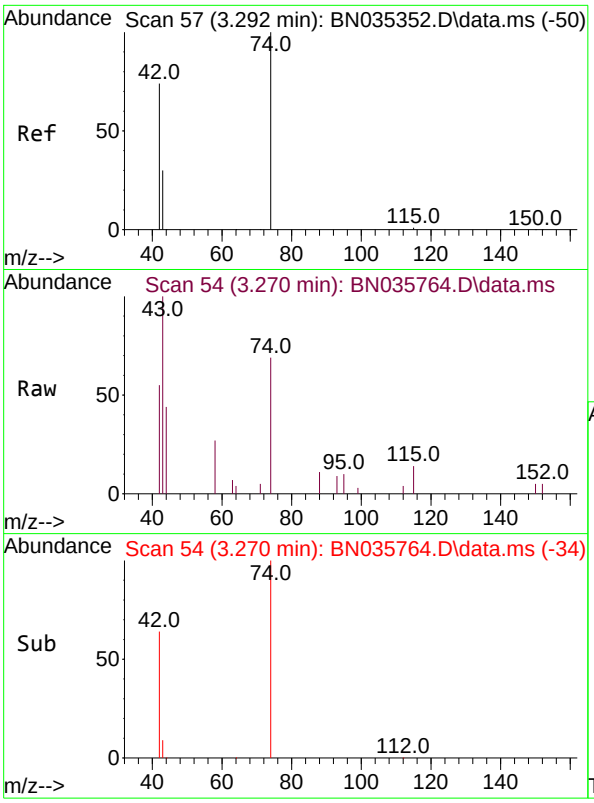


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 88 Resp: 1209

Ion	Ratio	Lower	Upper
88	100		
43	69.2	17.2	25.8#
58	63.2	44.5	66.7

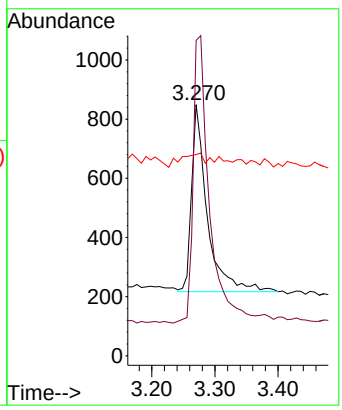




#3
n-Nitrosodimethylamine
Concen: 0.517 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 42 Resp: 108

Ion	Ratio	Lower	Upper
42	100		
74	159.0	124.9	187.3
44	12.7	2.2	3.4



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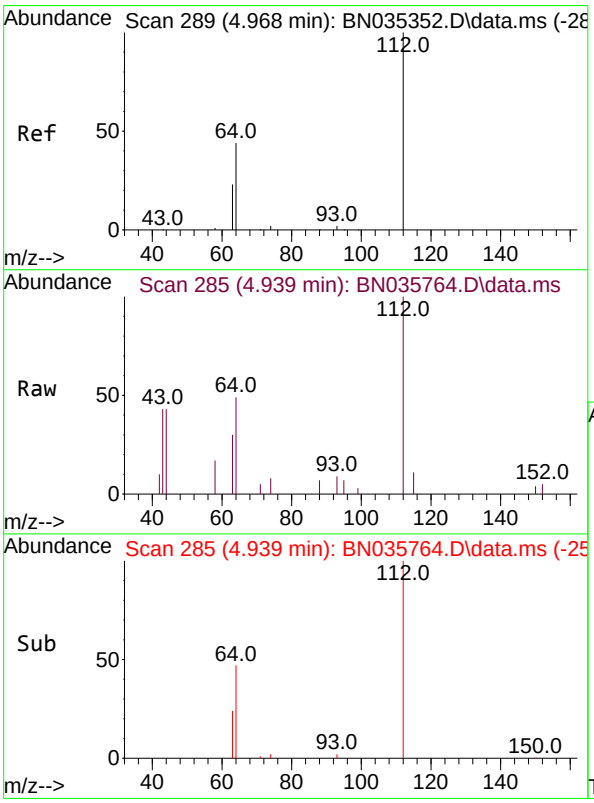
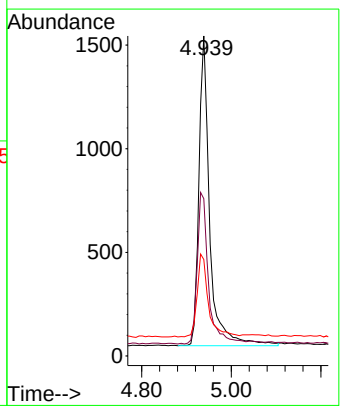
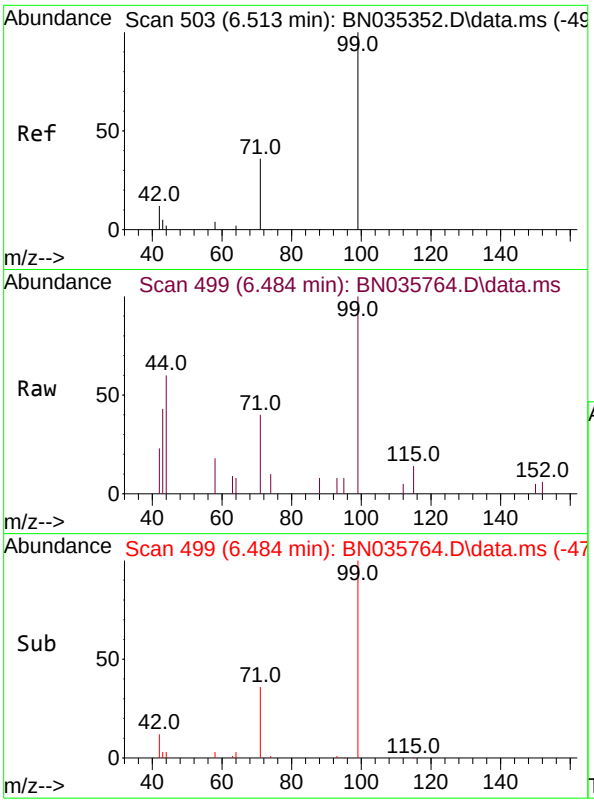


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:112 Resp: 2510

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.8	21.0	31.6

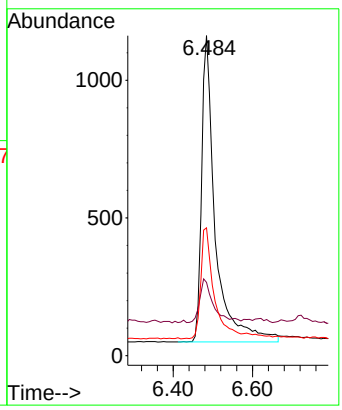




#5
Phenol-d6
Concen: 0.334 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 99 Resp: 266

Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.2
71	36.9	29.3	43.9



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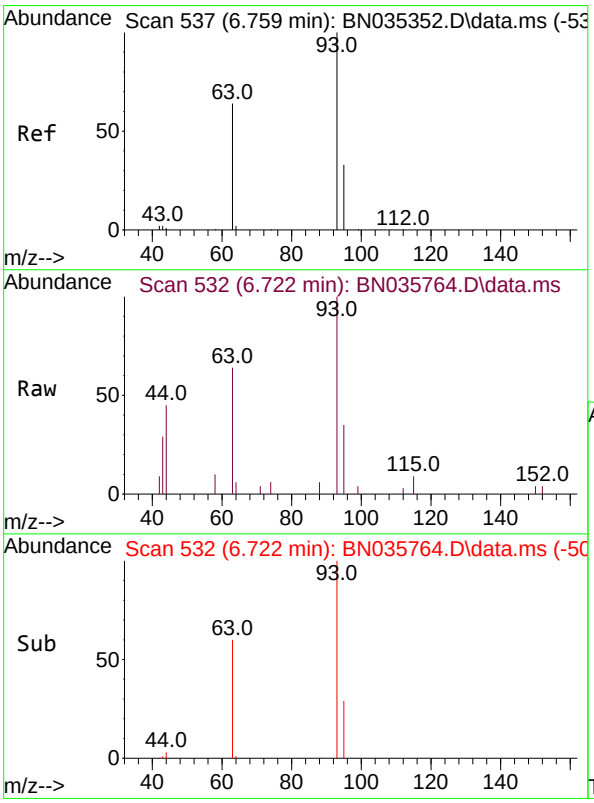
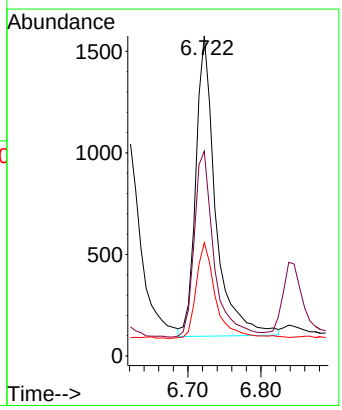
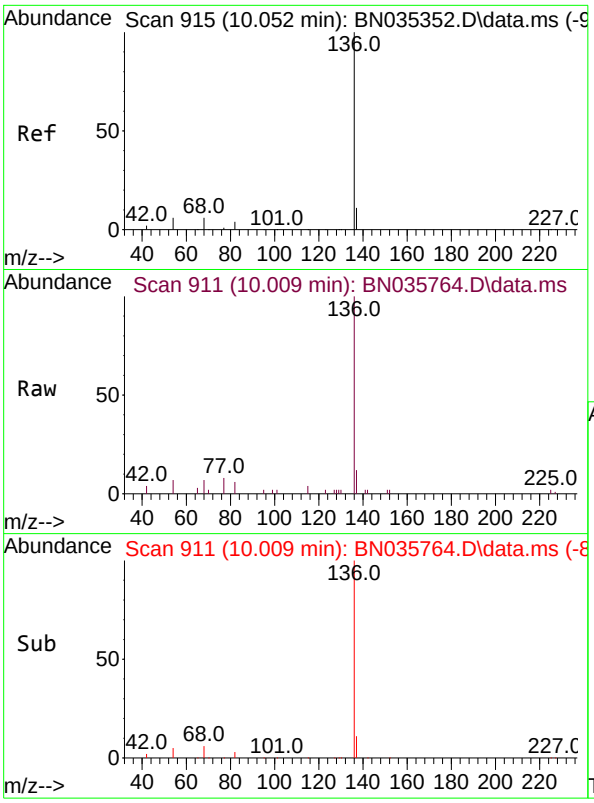


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.722 min Scan# 532
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 93 Resp: 2779

Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	32.0	25.7	38.5

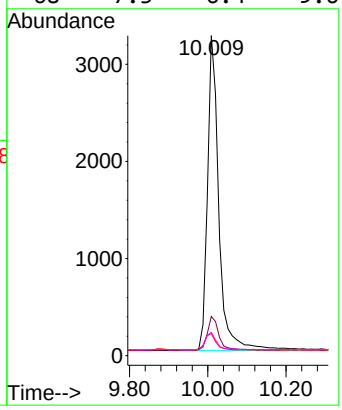




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:136 Resp: 653

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
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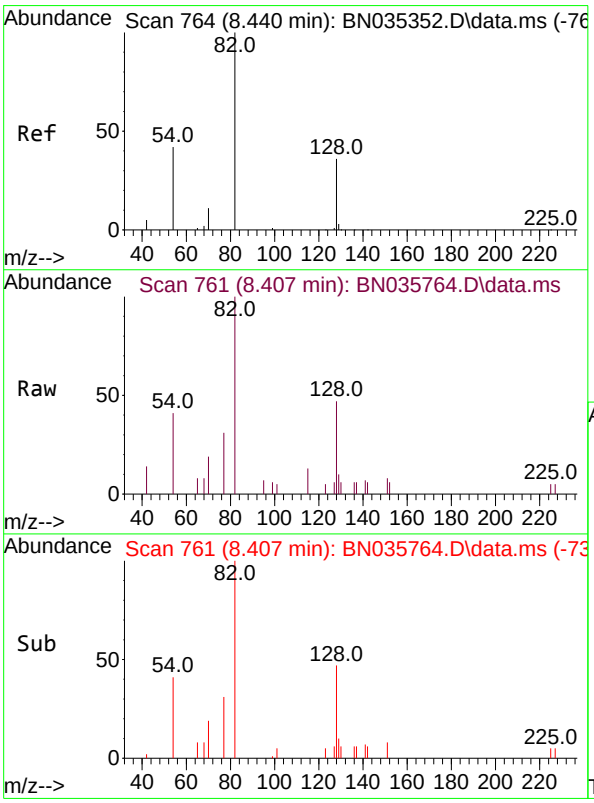
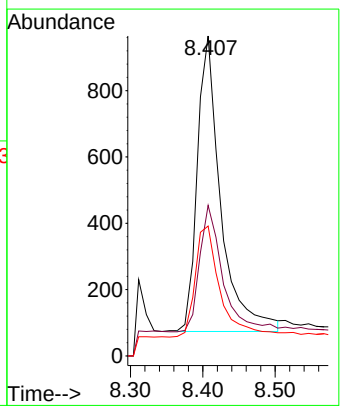
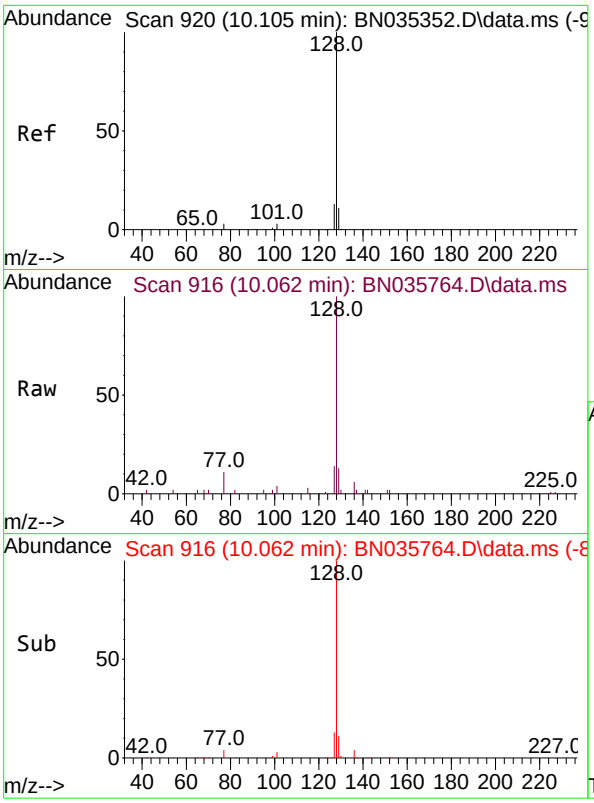


#8
Nitrobenzene-d5
Concen: 0.502 ng m
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 82 Resp: 2003

Ion	Ratio	Lower	Upper
82	100		
128	47.0	33.4	50.0
54	40.6	36.7	55.1





#9
Naphthalene
Concen: 0.433 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:128 Resp: 746

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	14.3	11.4	17.2

Instrument :
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ClientSampleId :
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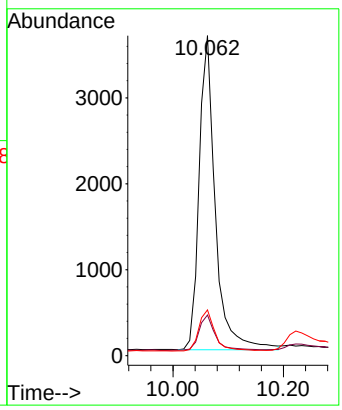
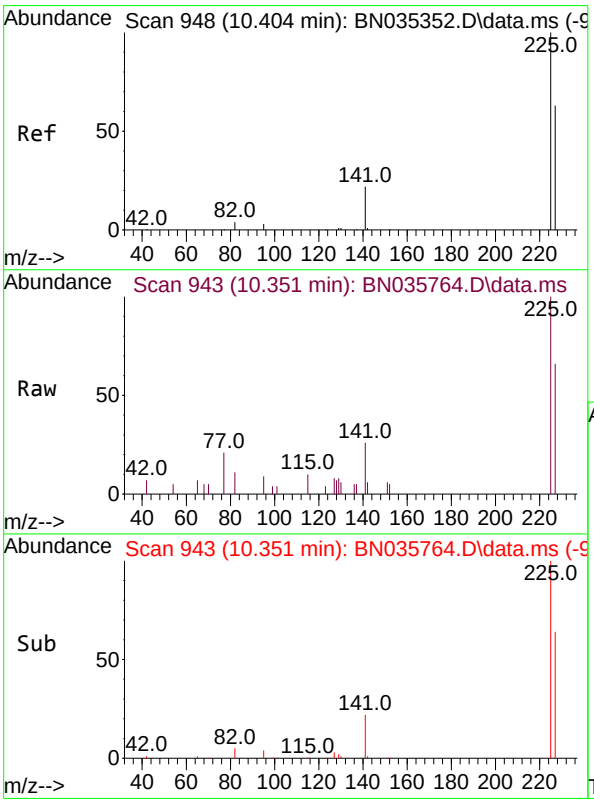
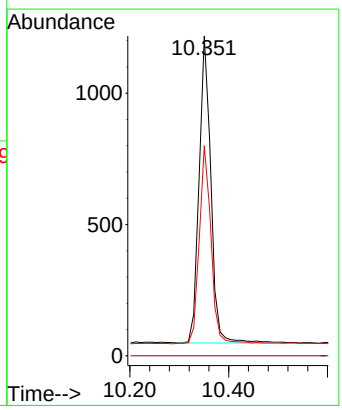


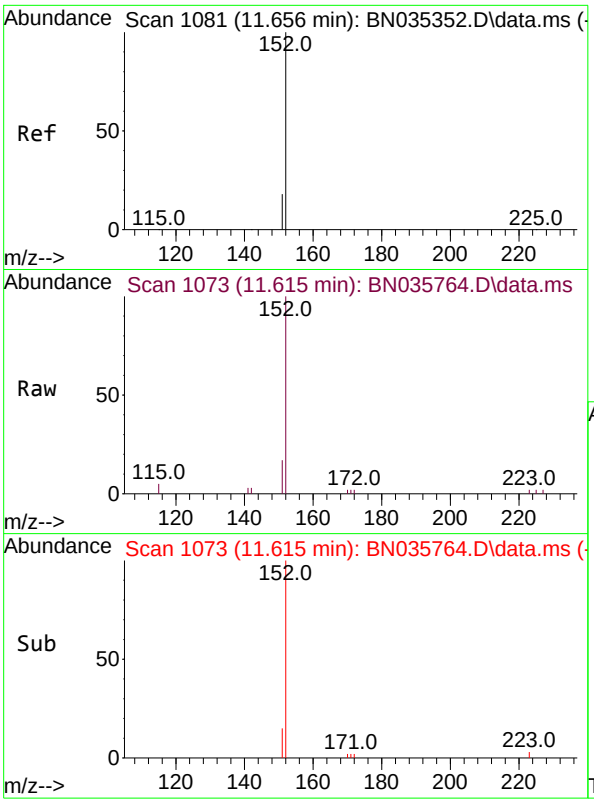


#10
Hexachlorobutadiene
Concen: 0.485 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:225 Resp: 1928

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9

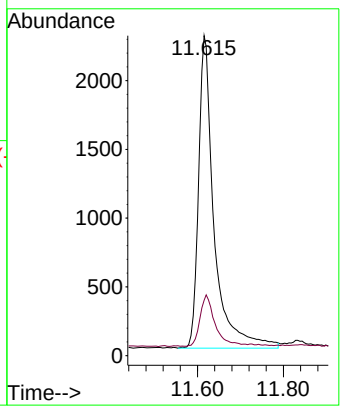




#11
2-Methylnaphthalene-d10
Concen: 0.556 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:152 Resp: 568

Ion	Ratio	Lower	Upper
152	100		
151	15.9	16.6	25.0



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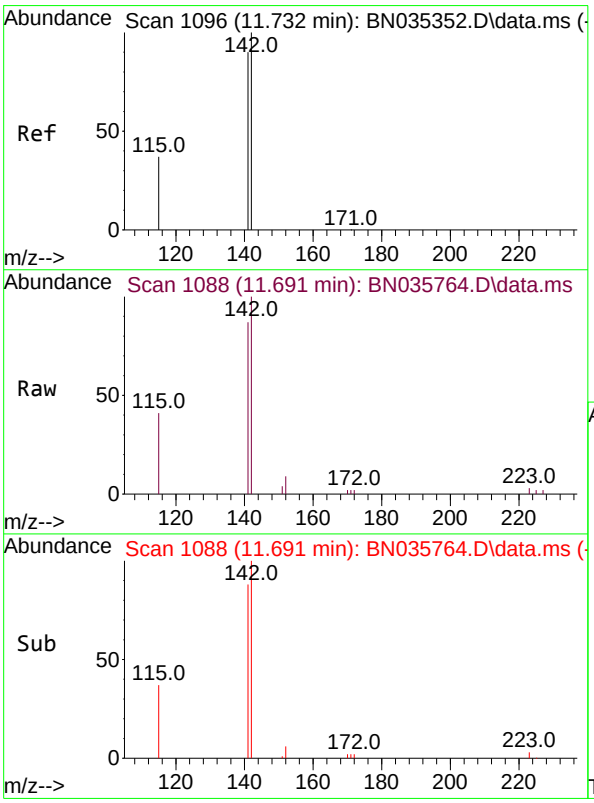
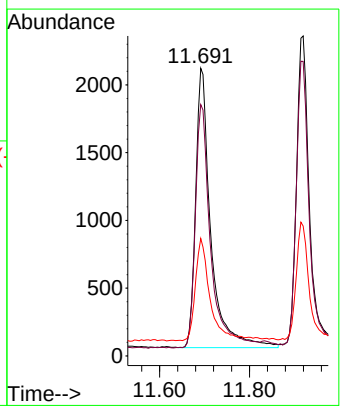
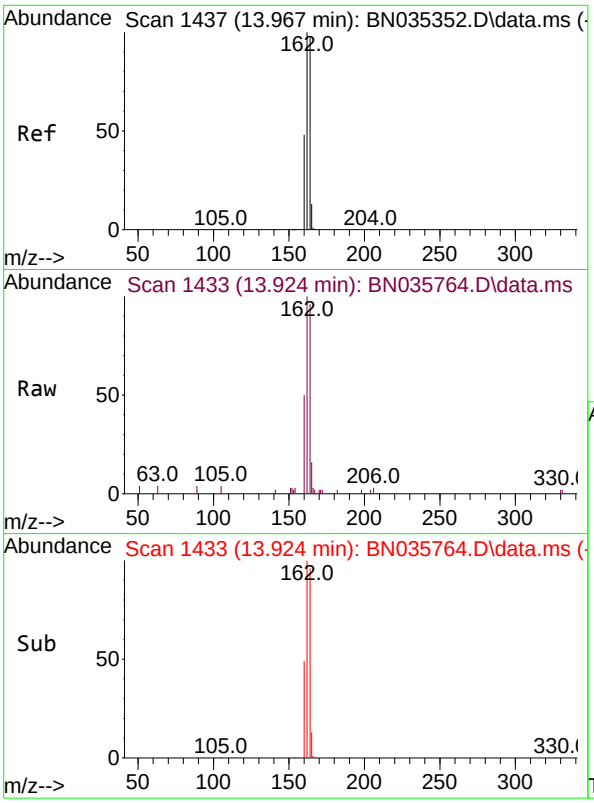


#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:142 Resp: 4846

Ion	Ratio	Lower	Upper
142	100		
141	87.4	72.2	108.4
115	40.9	31.4	47.0

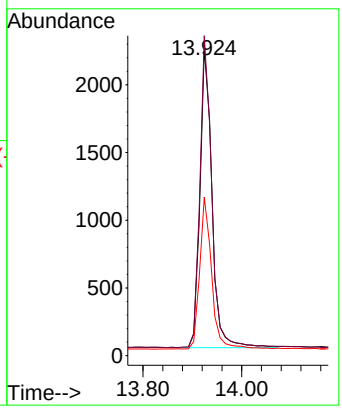




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:164 Resp: 374

Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	51.8	40.1	60.1



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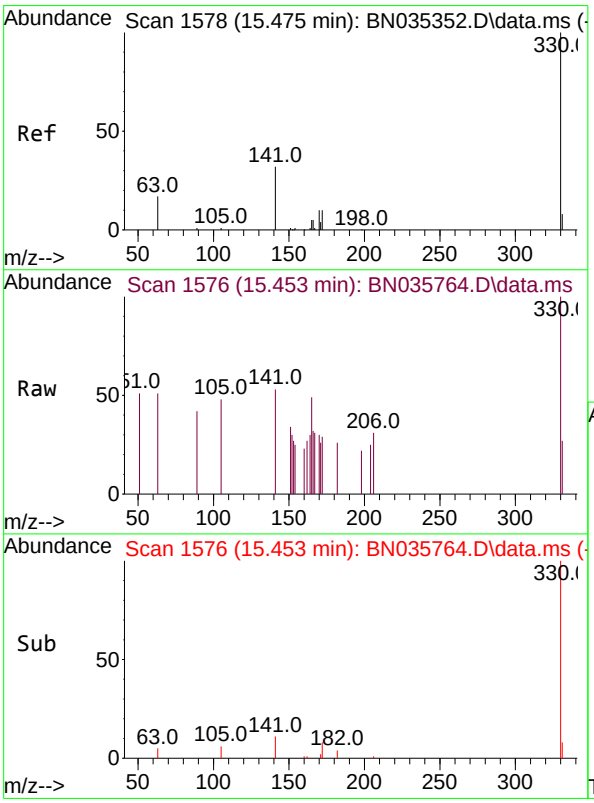
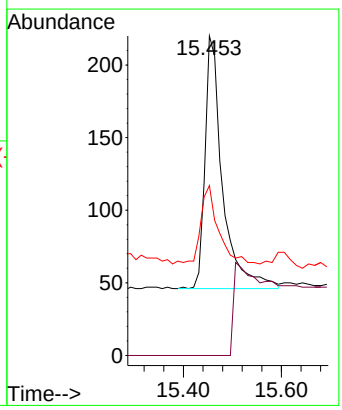
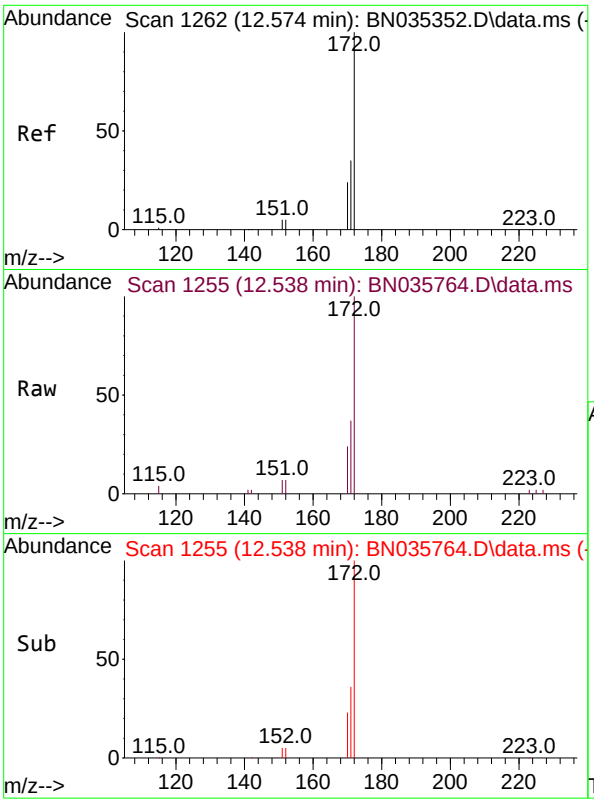


#14
2,4,6-Tribromophenol
Concen: 0.171 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:330 Resp: 453

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

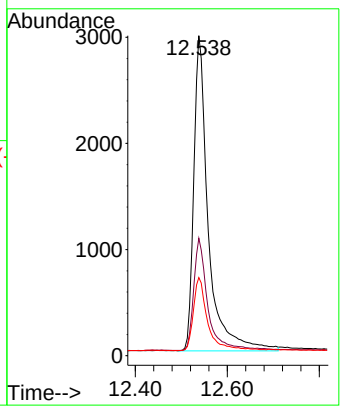




#15
2-Fluorobiphenyl
Concen: 0.460 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:172 Resp: 650

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.0	43.4
170	24.4	19.8	29.8



Instrument :
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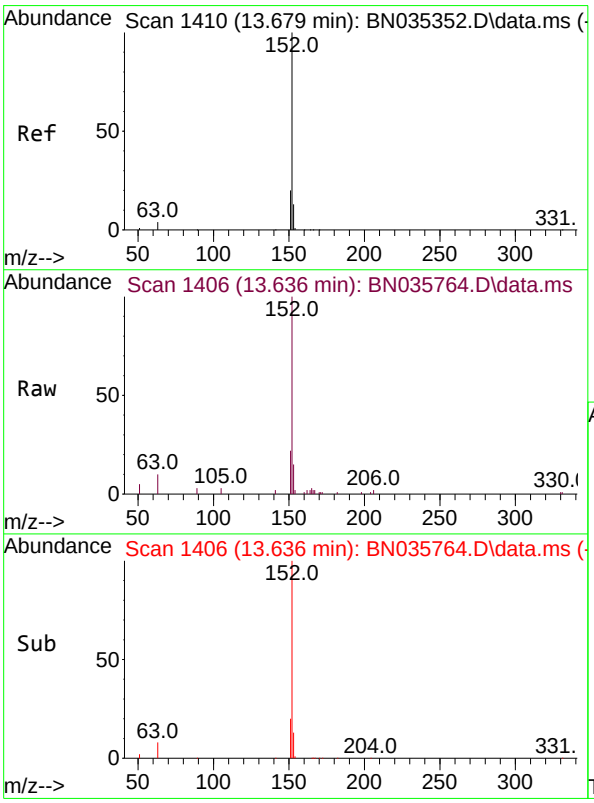
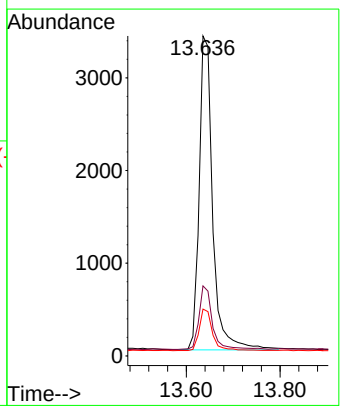
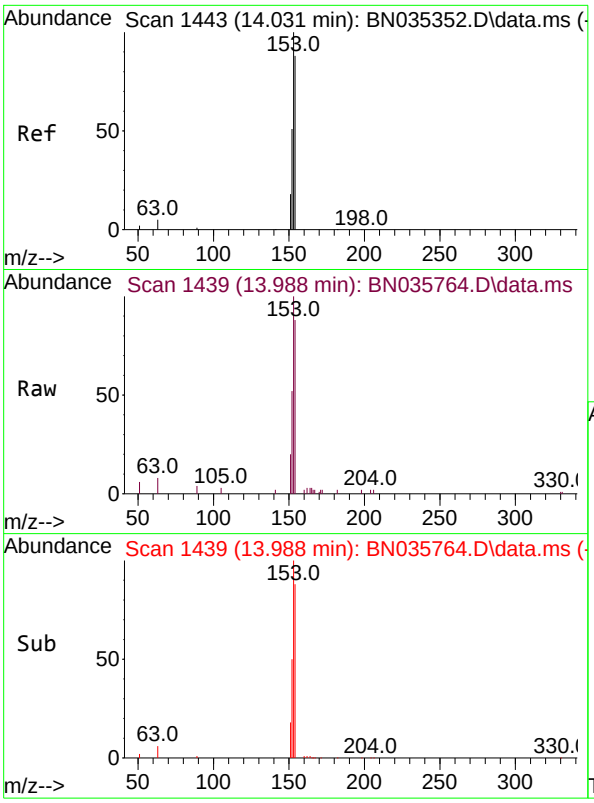


#16
Acenaphthylene
Concen: 0.432 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:152 Resp: 6779

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6

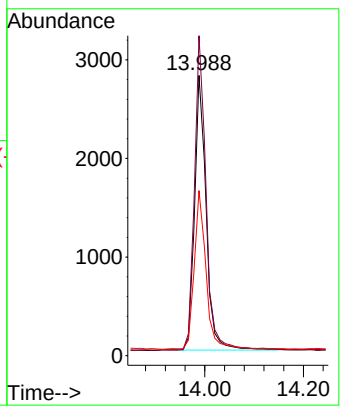




#17
Acenaphthene
Concen: 0.434 ng
RT: 13.988 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:154 Resp: 452

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	58.8	49.0	73.6



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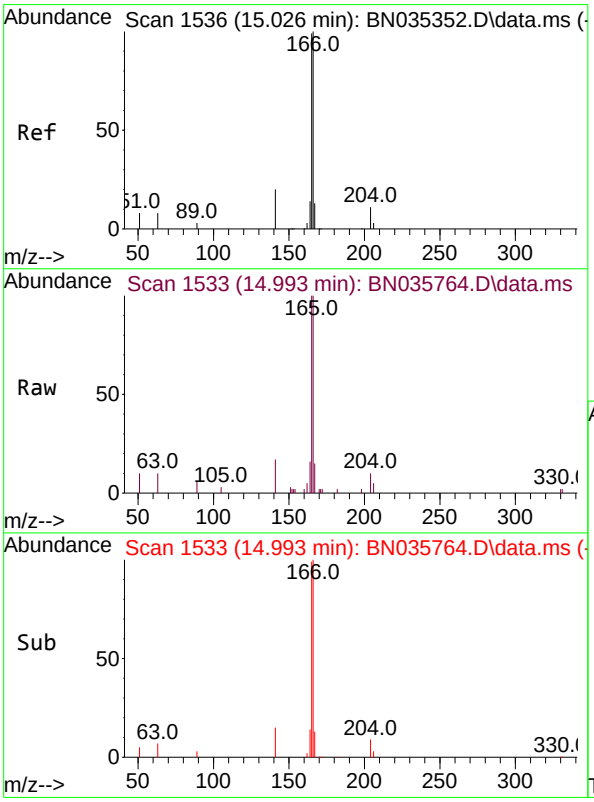
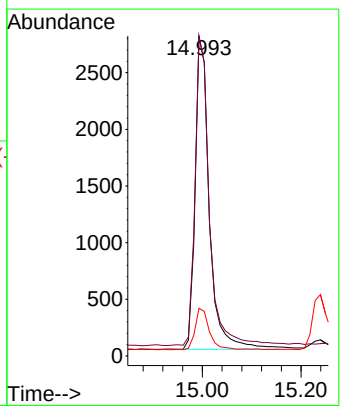
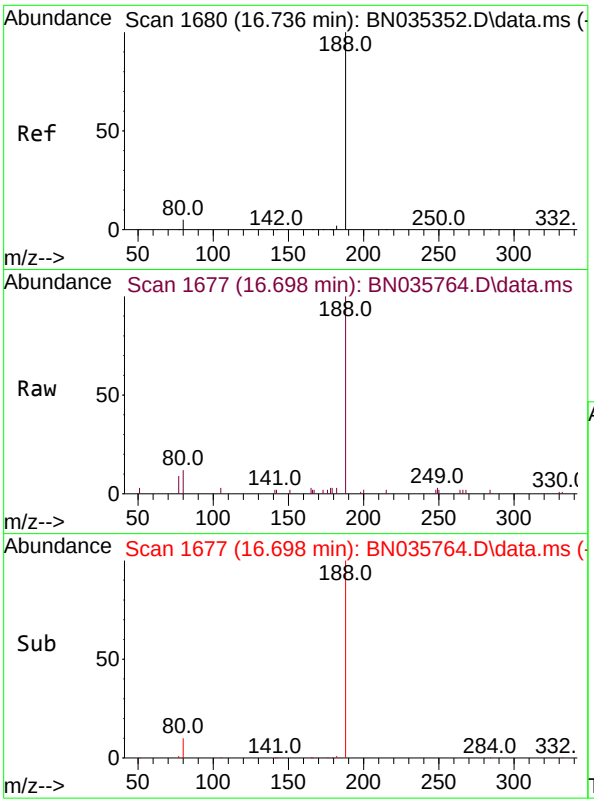


#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:166 Resp: 5492

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.0	10.8	16.2

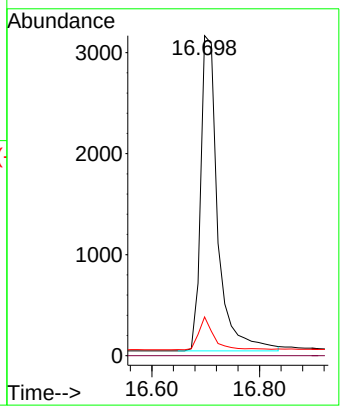




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:188 Resp: 689

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
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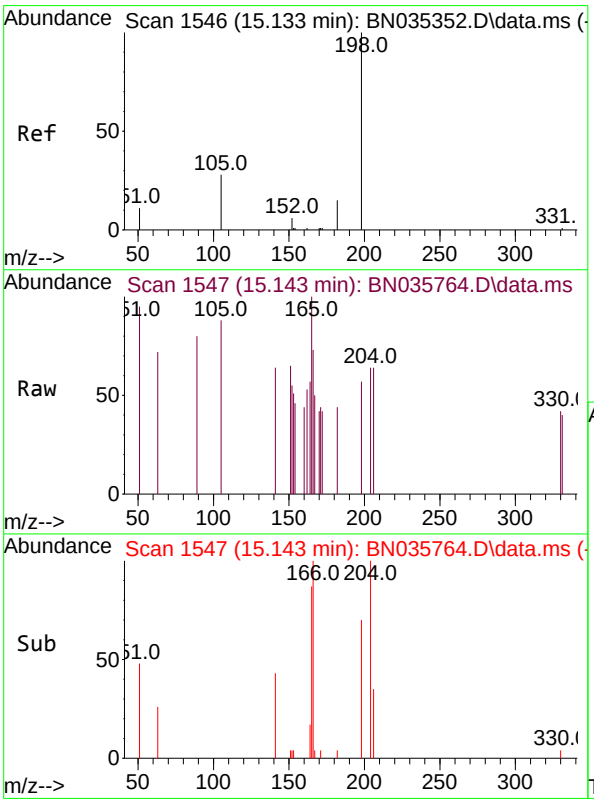
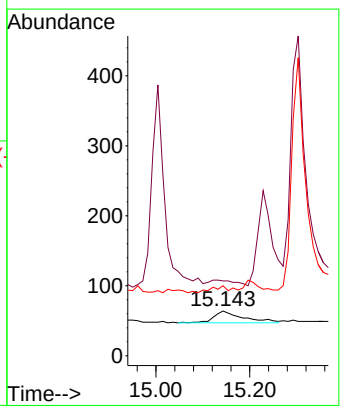
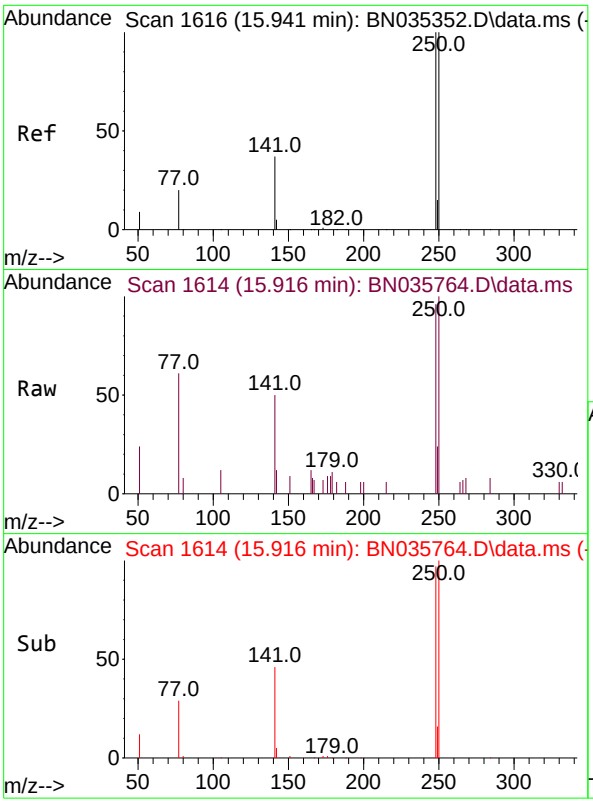


#20
4,6-Dinitro-2-methylphenol
Concen: 0.109 ng
RT: 15.143 min Scan# 1547
Delta R.T. 0.021 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:198 Resp: 74

Ion	Ratio	Lower	Upper
198	100		
51	167.2	46.5	69.7#
105	156.3	45.3	67.9#

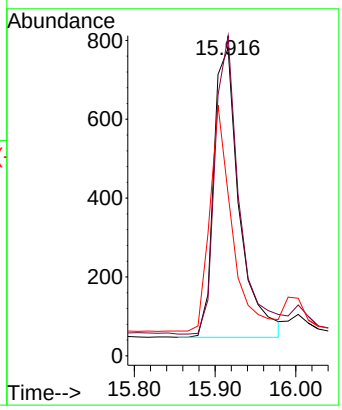




#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 15.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:248 Resp: 162

Ion	Ratio	Lower	Upper
248	100		
250	104.1	80.6	120.8
141	52.6	31.5	47.3#



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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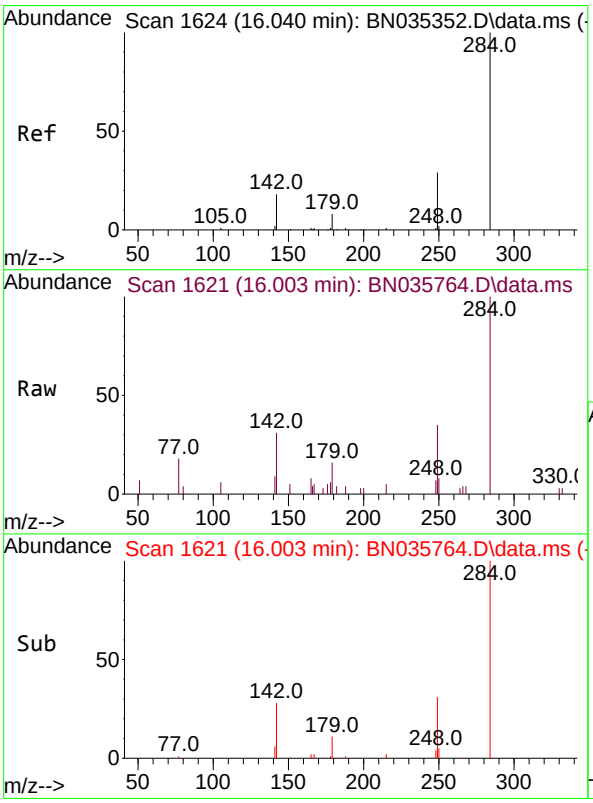
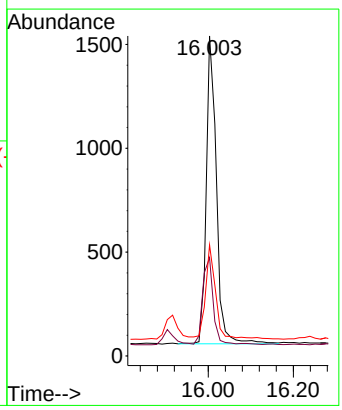
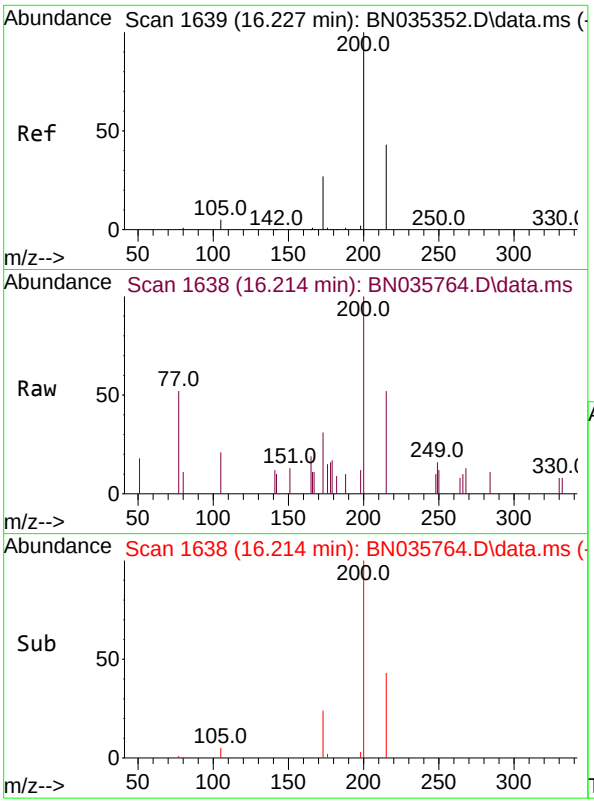


#22
Hexachlorobenzene
Concen: 0.516 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:284 Resp: 2441

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	30.3	24.6	36.8

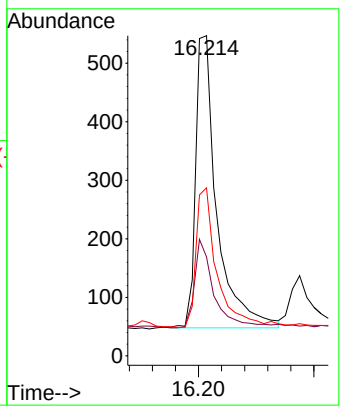




#23
Atrazine
Concen: 0.443 ng
RT: 16.214 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:200 Resp: 127

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	52.5	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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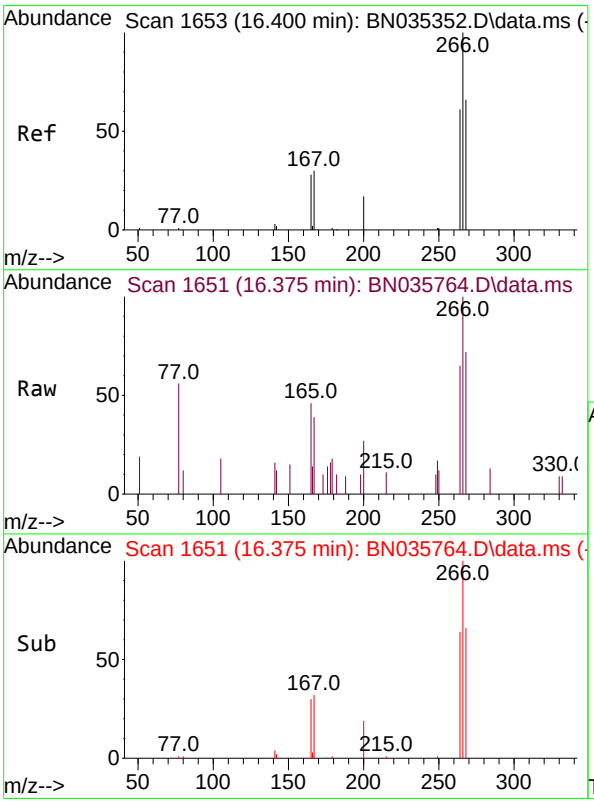
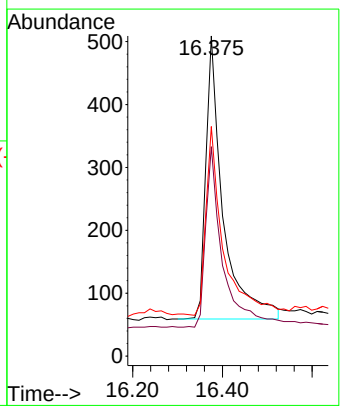
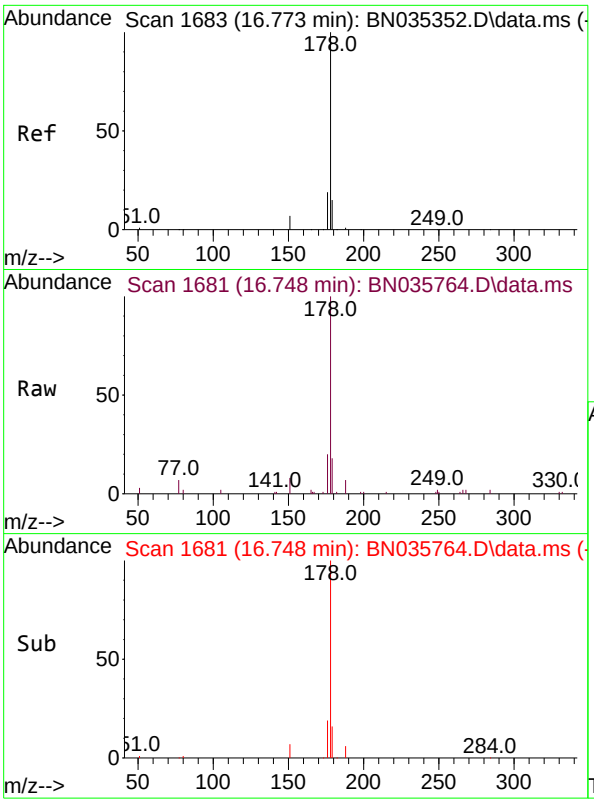


#24
Pentachlorophenol
Concen: 0.579 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:266 Resp: 1192

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	66.2	43.3	64.9#

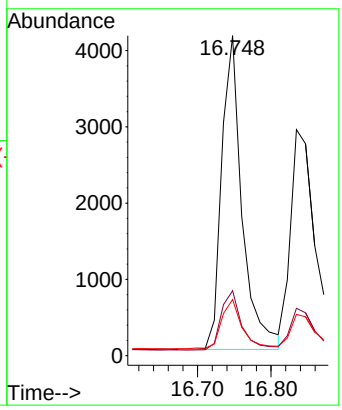




#25
Phenanthrene
Concen: 0.420 ng
RT: 16.748 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:178 Resp: 795

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	16.3	12.3	18.5



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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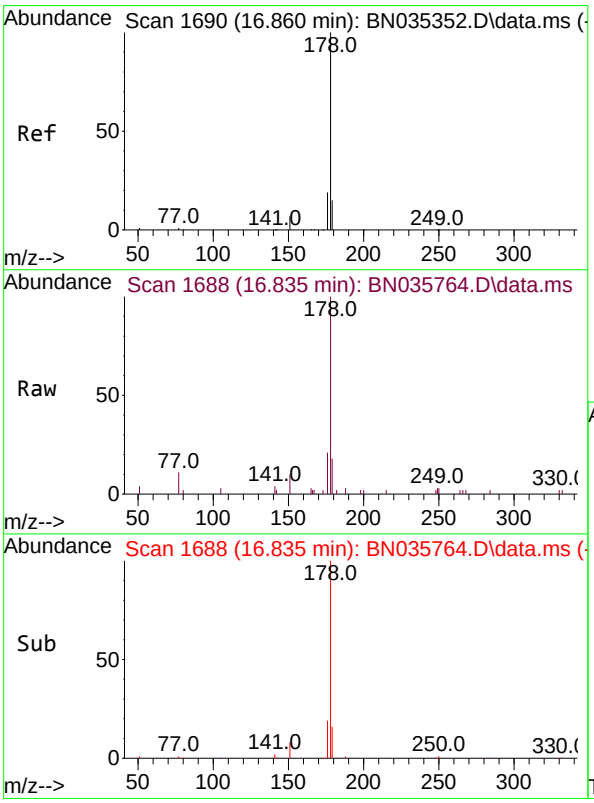
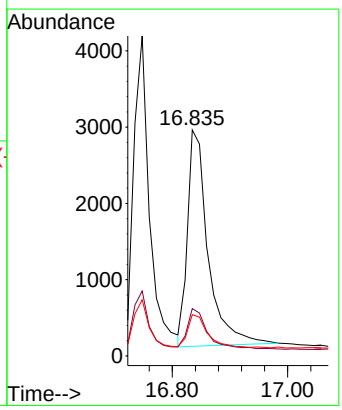
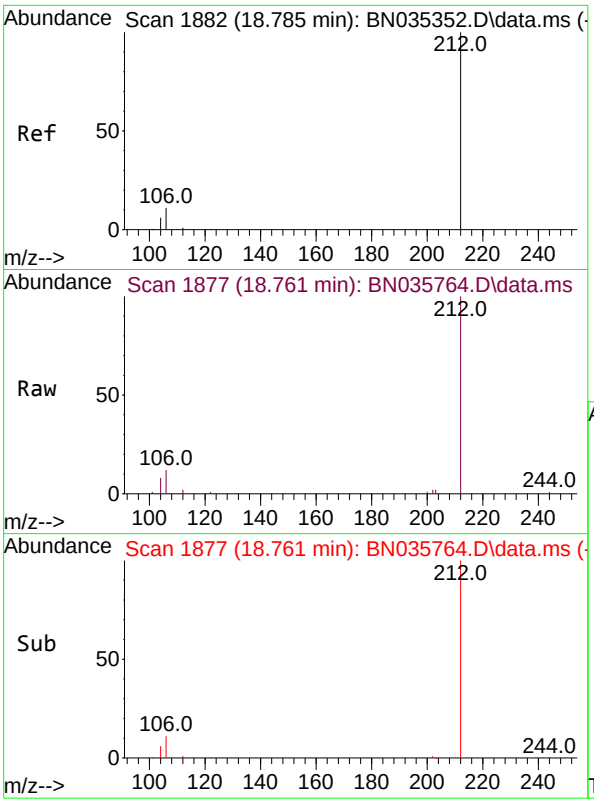


#26
Anthracene
Concen: 0.412 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:178 Resp: 7046

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.7	12.6	18.8

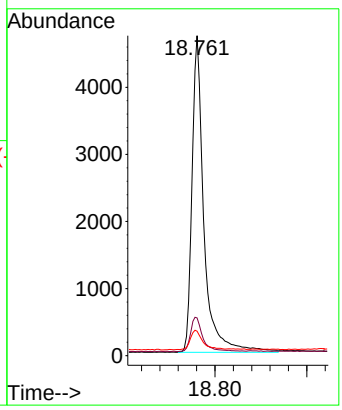




#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:212 Resp: 850

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
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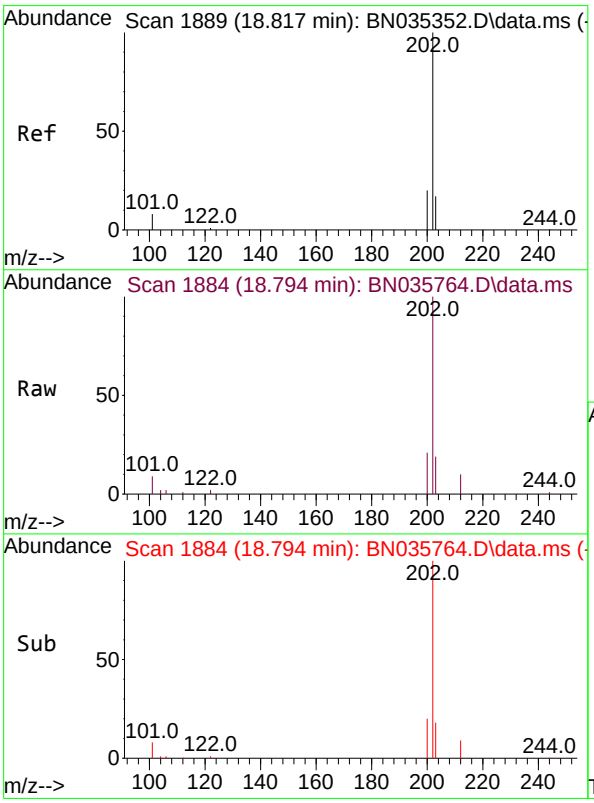
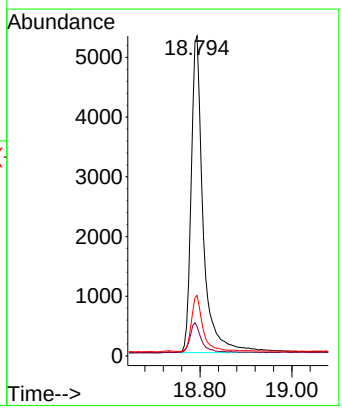
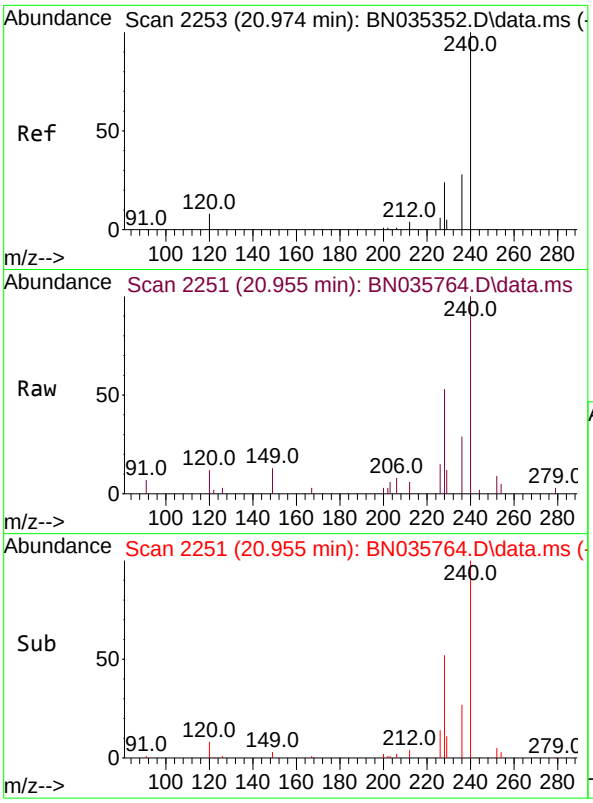


#28
Fluoranthene
Concen: 0.379 ng
RT: 18.794 min Scan# 1884
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 9671

Ion	Ratio	Lower	Upper
202	100		
101	8.7	7.4	11.0
203	16.8	13.7	20.5

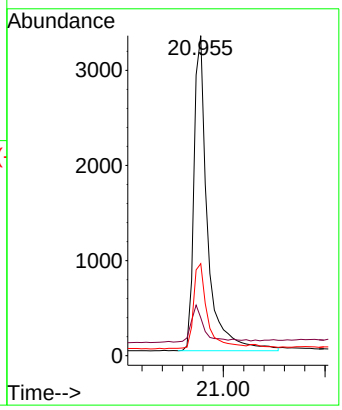




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.955 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:240 Resp: 614

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



Instrument :
BNA_N
ClientSampleId :
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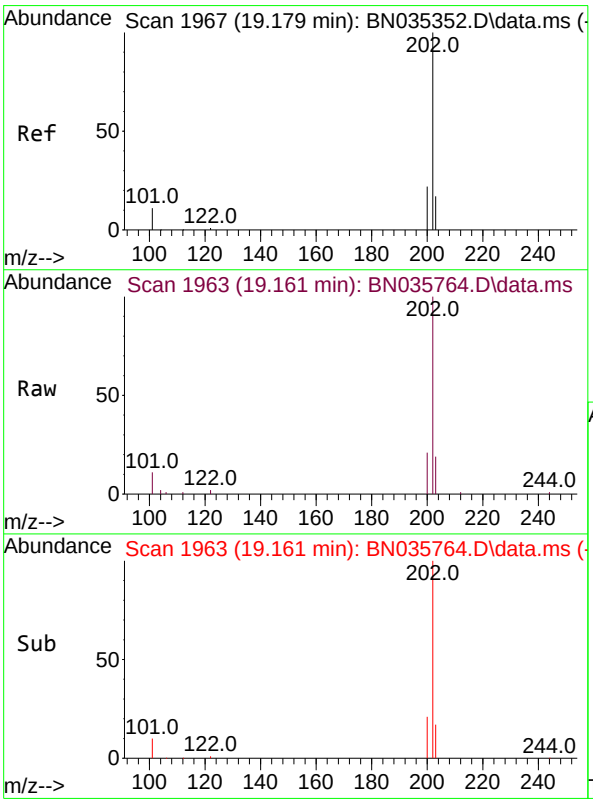
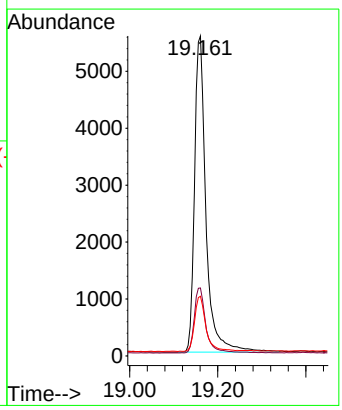
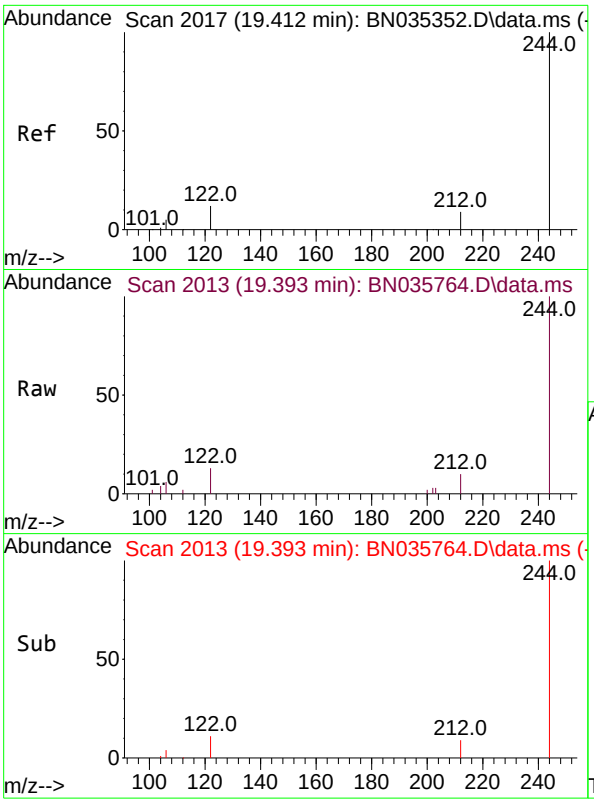


#30
Pyrene
Concen: 0.442 ng
RT: 19.161 min Scan# 1963
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 10032

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.5	14.3	21.5

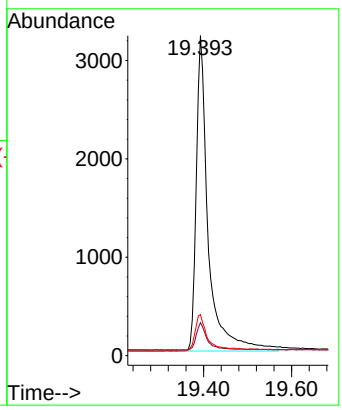




#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:244 Resp: 607

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



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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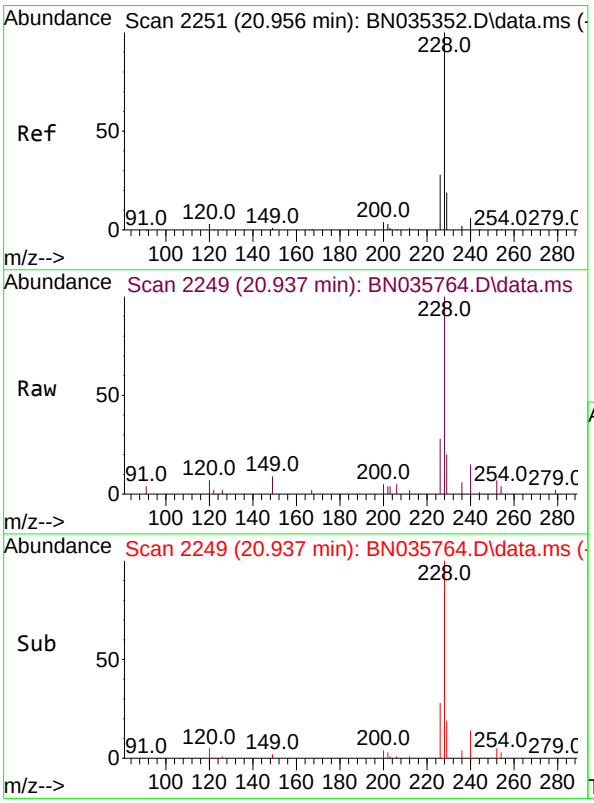
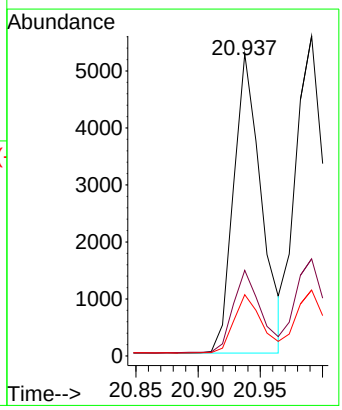
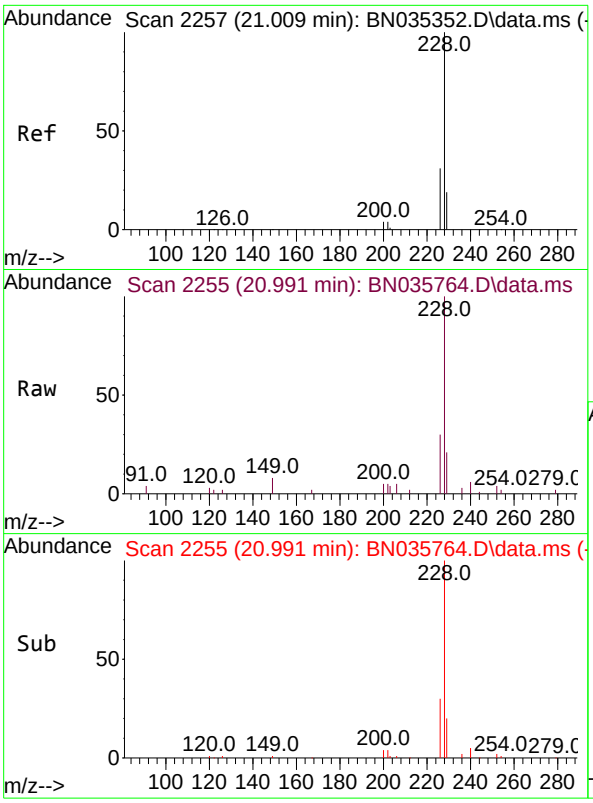


#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 20.937 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:228 Resp: 8148

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.3	15.8	23.8

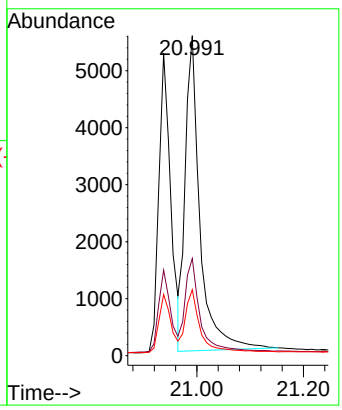




#33
Chrysene
Concen: 0.478 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:228 Resp: 1058

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.6	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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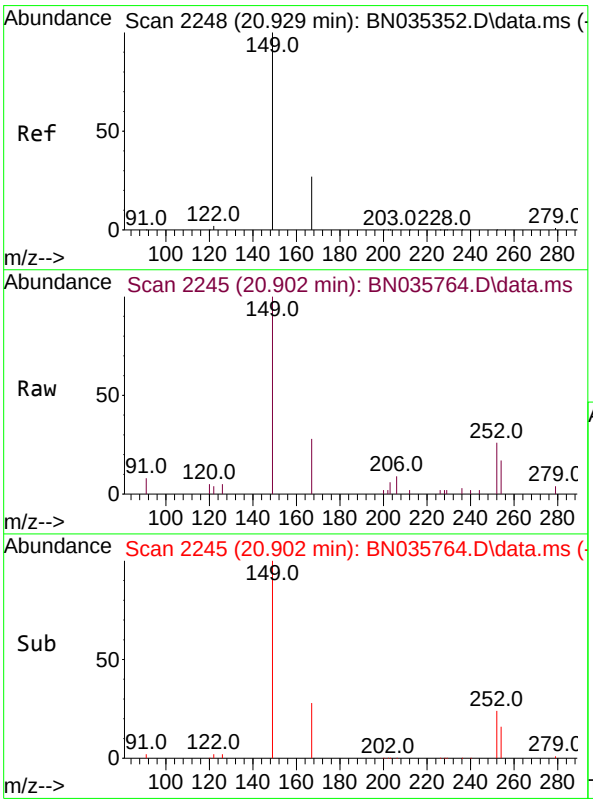
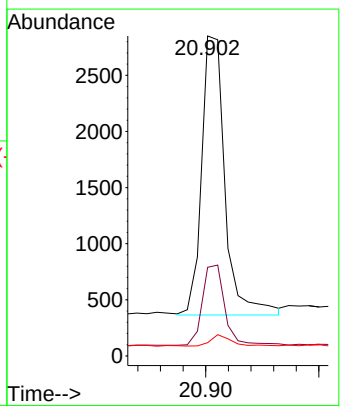
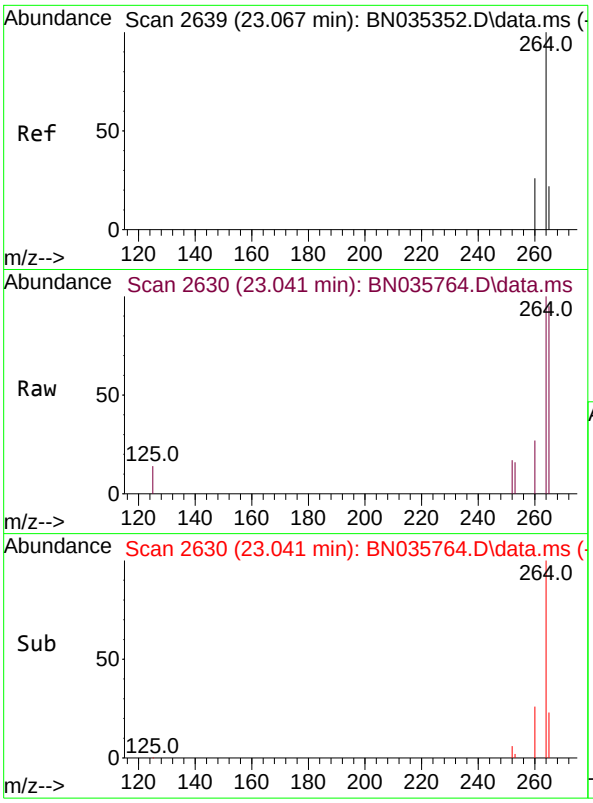


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.420 ng m
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:149 Resp: 3563

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

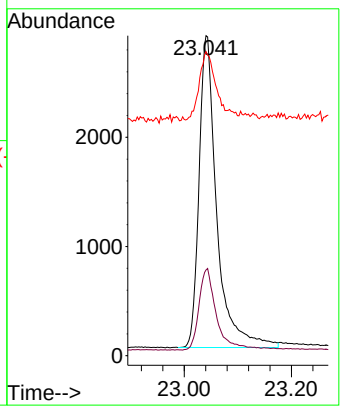




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.041 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:264 Resp: 657

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	95.0	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
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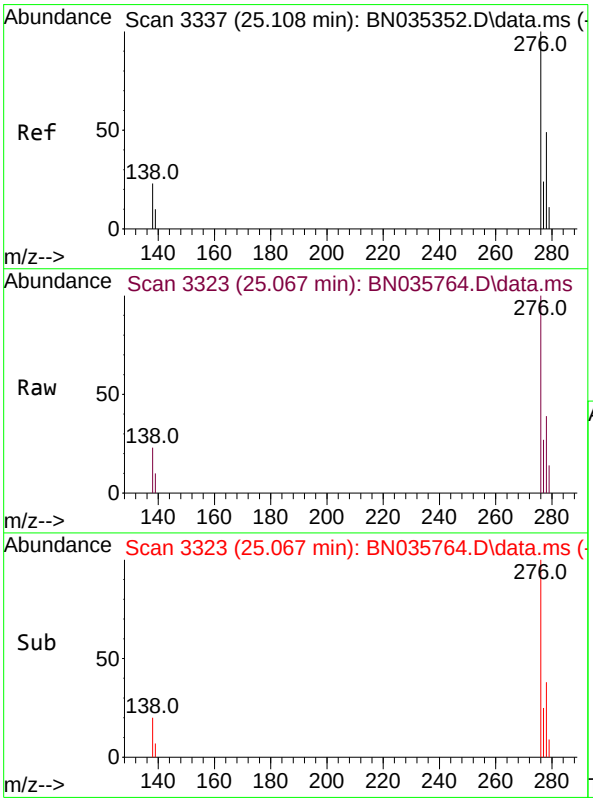
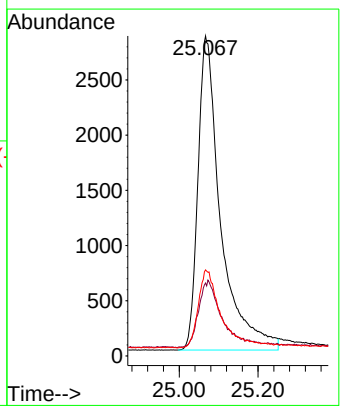
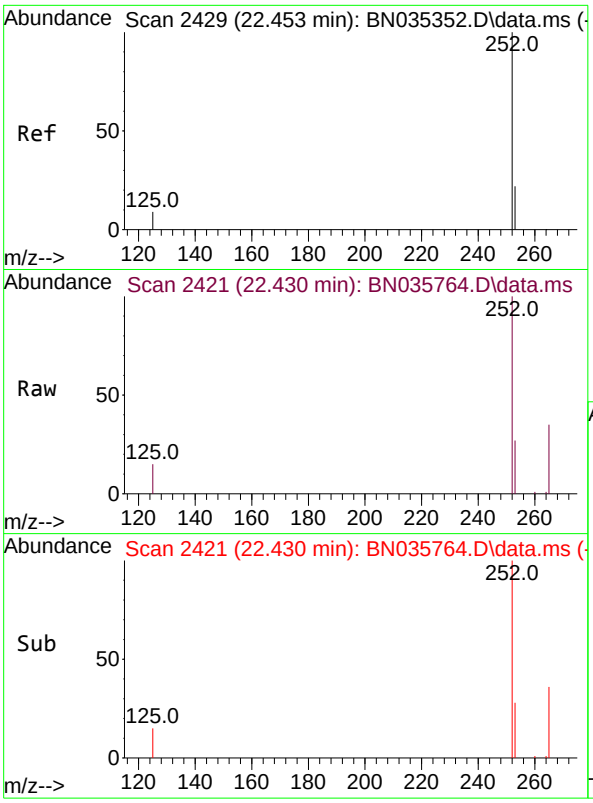


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:276 Resp: 11390

Ion	Ratio	Lower	Upper
276	100		
138	20.7	19.4	29.0
277	24.5	19.8	29.6

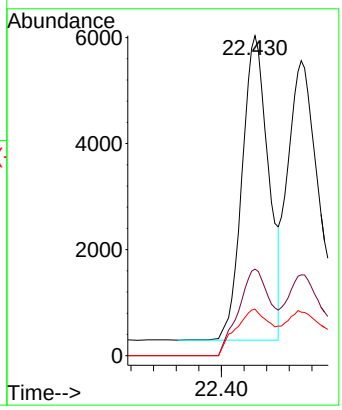




#37
Benzo(b)fluoranthene
Concen: 0.578 ng
RT: 22.430 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:252 Resp: 1389

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.6	29.4
125	14.5	9.6	14.4



Instrument :
BNA_N
ClientSampleId :
PB165724BS

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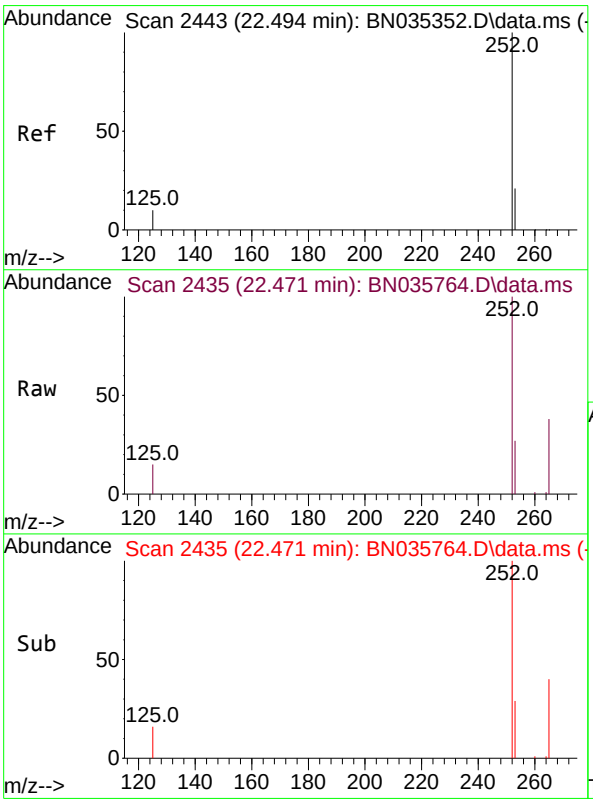
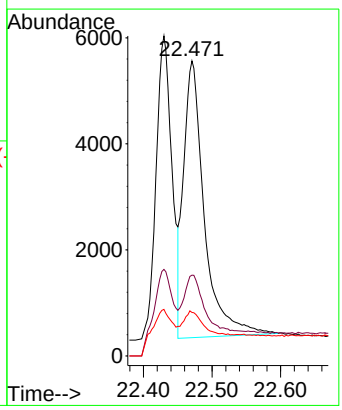
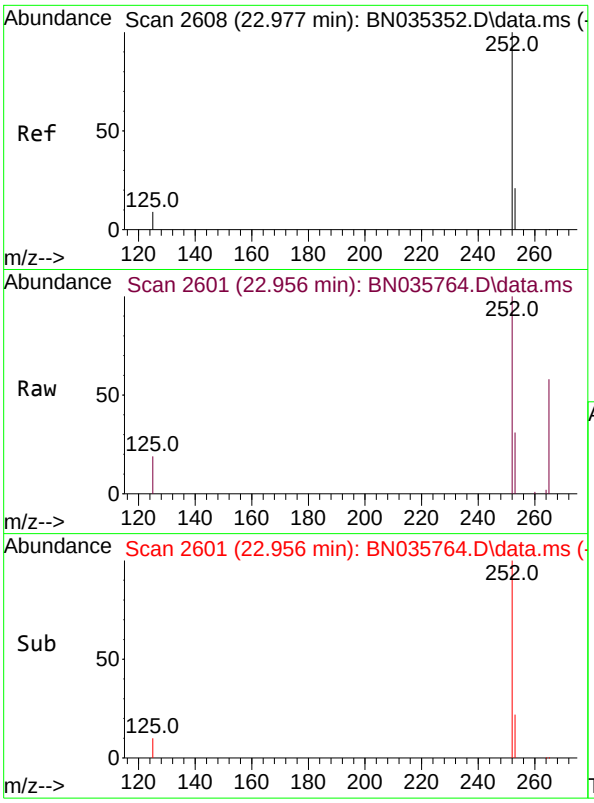


#38
Benzo(k)fluoranthene
Concen: 0.462 ng
RT: 22.471 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:252 Resp: 10950

Ion	Ratio	Lower	Upper
252	100		
253	27.4	19.5	29.3
125	14.7	10.2	15.4

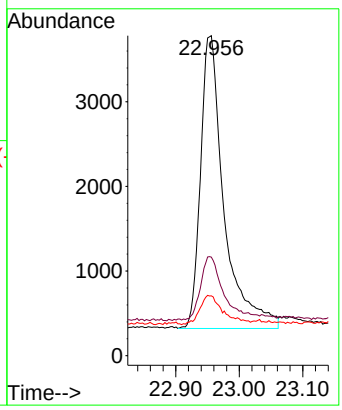




#39
Benzo(a)pyrene
Concen: 0.449 ng
RT: 22.956 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:252 Resp: 888

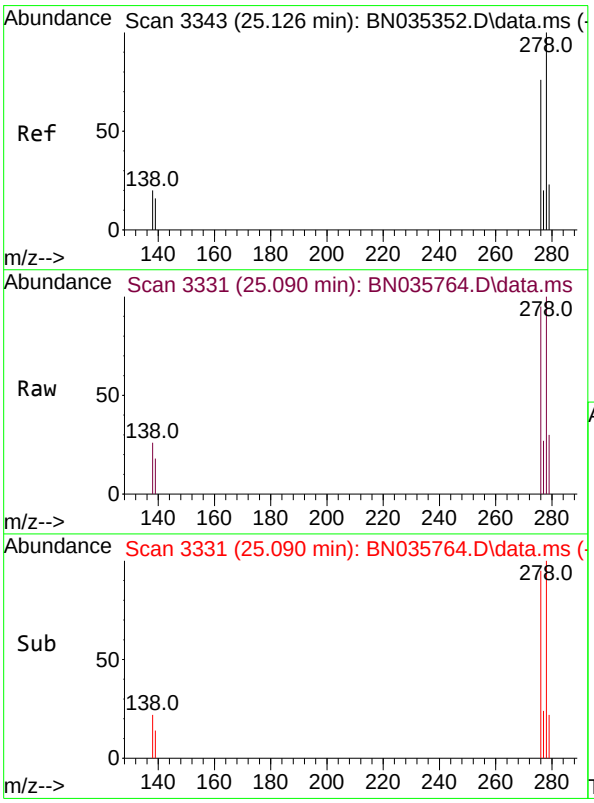
Ion	Ratio	Lower	Upper
252	100		
253	30.8	20.2	30.4
125	18.7	10.9	16.3



Instrument :
BNA_N
ClientSampleId :
PB165724BS

Manual Integrations
APPROVED

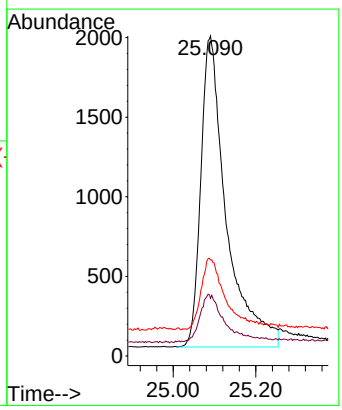
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

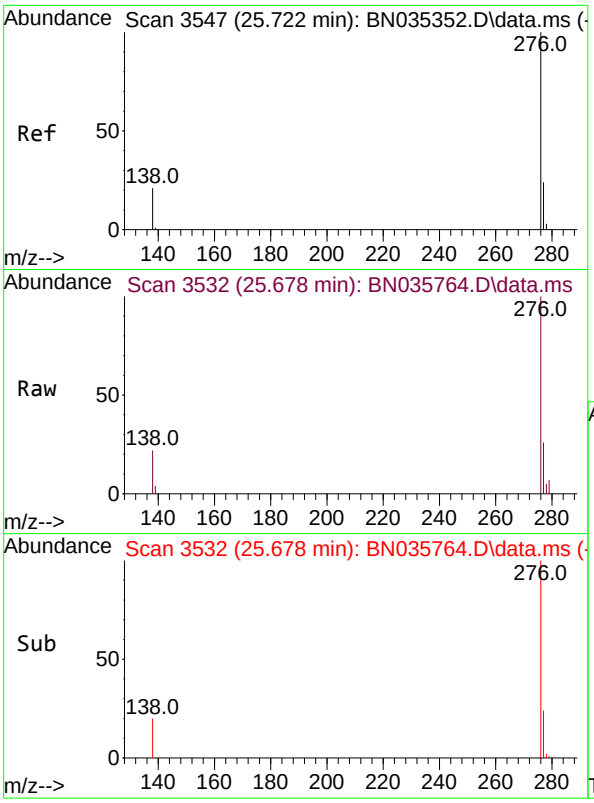


#40
Dibenzo(a,h)anthracene
Concen: 0.412 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:278 Resp: 8351

Ion	Ratio	Lower	Upper
278	100		
139	18.0	14.2	21.4
279	30.0	20.5	30.7

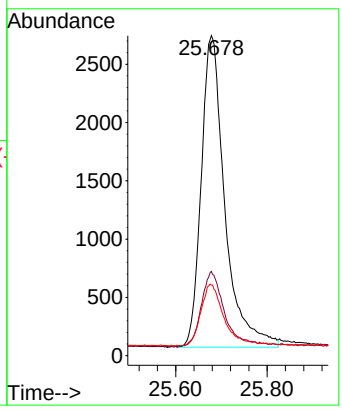




#41
Benzo(g,h,i)perylene
Concen: 0.453 ng
RT: 25.678 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:276 Resp: 959

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	22.1	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165724BS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Raw Data: **BN035853.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:	PB165724BSD	SDG No.:	P5314
Lab Sample ID:	PB165724BSD	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
BN035853.D	1	12/18/24 12:50	12/26/24 14:54	PB165724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.45		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.53		30 - 150		132%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.56	*	55 - 111		140%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.47	*	53 - 106		116%	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	2940	7.257				
1146-65-2	Naphthalene-d8	6910	9.999				
15067-26-2	Acenaphthene-d10	3870	13.914				
1517-22-2	Phenanthrene-d10	7400	16.698				
1719-03-5	Chrysene-d12	5740	20.947				
1520-96-3	Perylene-d12	6250	23.024				

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\BN122624\
Data File : BN035853.D
Acq On : 26 Dec 2024 14:54
Operator : RC/JU
Sample : PB165724BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

Quant Time: Dec 27 00:41:25 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	2938	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6908	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	3870	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	7401	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	5744	0.400	ng	# 0.00
35) Perylene-d12	23.024	264	6254	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	2679	0.364	ng	-0.01
5) Phenol-d6	6.470	99	2872	0.325	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2354m	0.558	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	5721	0.529	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	445	0.162	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6817	0.466	ng	-0.02
27) Fluoranthene-d10	18.748	212	8300	0.396	ng	-0.01
31) Terphenyl-d14	19.379	244	5786	0.511	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1269	0.452	ng	# 81
3) n-Nitrosodimethylamine	3.263	42	1206	0.516	ng	# 93
6) bis(2-Chloroethyl)ether	6.716	93	3004	0.404	ng	99
9) Naphthalene	10.052	128	8072	0.443	ng	99
10) Hexachlorobutadiene	10.340	225	1977	0.470	ng	# 98
12) 2-Methylnaphthalene	11.682	142	5041	0.386	ng	99
16) Acenaphthylene	13.625	152	7205	0.443	ng	99
17) Acenaphthene	13.978	154	4687	0.434	ng	100
18) Fluorene	14.983	166	5947	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	403	0.554	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	1824	0.421	ng	# 94
22) Hexachlorobenzene	15.991	284	2652	0.522	ng	96
23) Atrazine	16.202	200	1370	0.445	ng	95
24) Pentachlorophenol	16.363	266	985	0.445	ng	88
25) Phenanthrene	16.736	178	8677	0.427	ng	100
26) Anthracene	16.835	178	7654	0.416	ng	99
28) Fluoranthene	18.780	202	9853	0.360	ng	99
30) Pyrene	19.147	202	10152	0.479	ng	100
32) Benzo(a)anthracene	20.929	228	7921	0.394	ng	99
33) Chrysene	20.983	228	10214	0.493	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	3576	0.451	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	12472	0.510	ng	100
37) Benzo(b)fluoranthene	22.416	252	13352	0.584	ng	# 93
38) Benzo(k)fluoranthene	22.456	252	10641	0.473	ng	# 93
39) Benzo(a)pyrene	22.939	252	9066	0.481	ng	# 88
40) Dibenzo(a,h)anthracene	25.070	278	9318	0.483	ng	93
41) Benzo(g,h,i)perylene	25.652	276	10352	0.513	ng	97

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

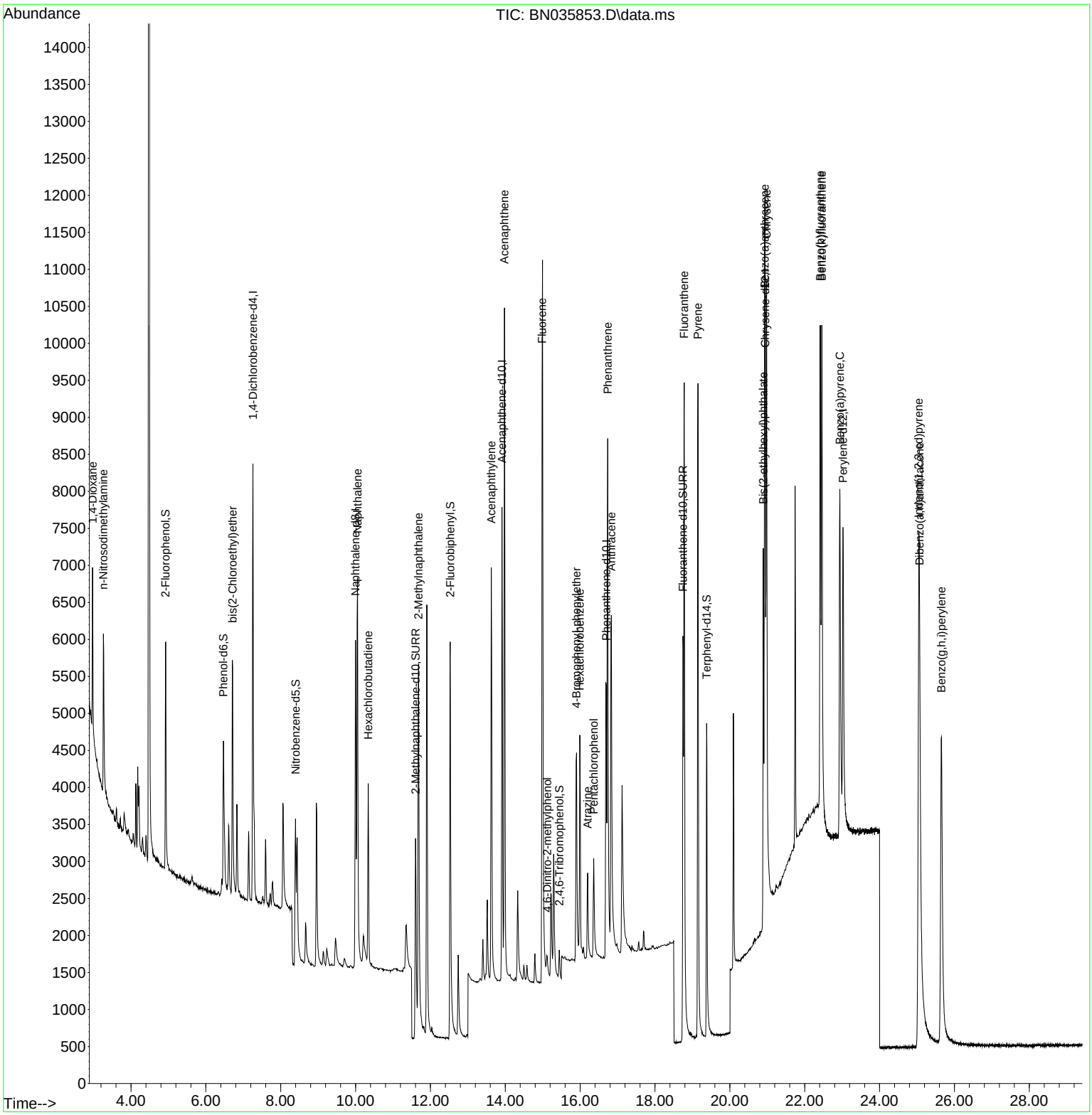
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035853.D
Acq On : 26 Dec 2024 14:54
Operator : RC/JU
Sample : PB165724BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

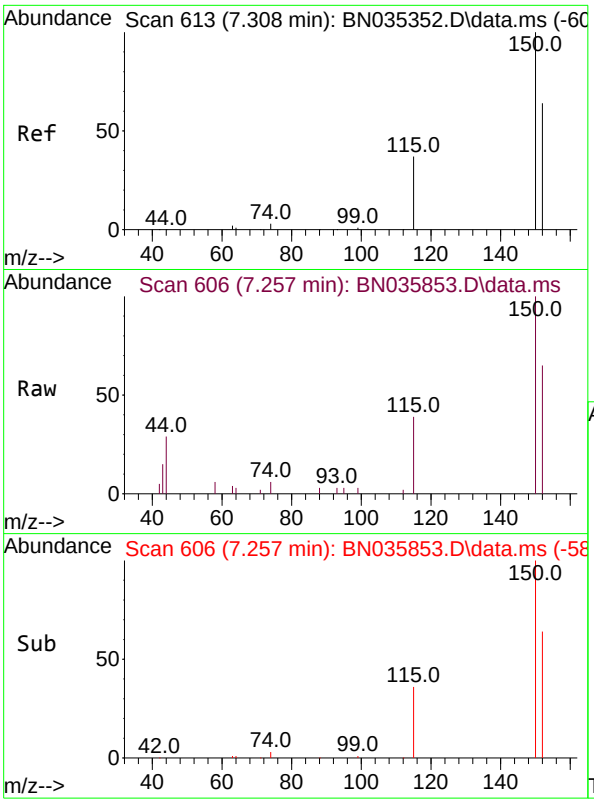
Quant Time: Dec 27 00:41:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

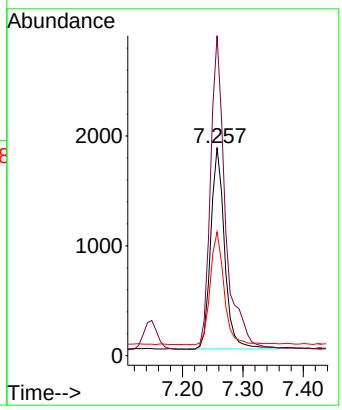




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 293

Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.0	186.0
115	59.5	49.6	74.4



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations
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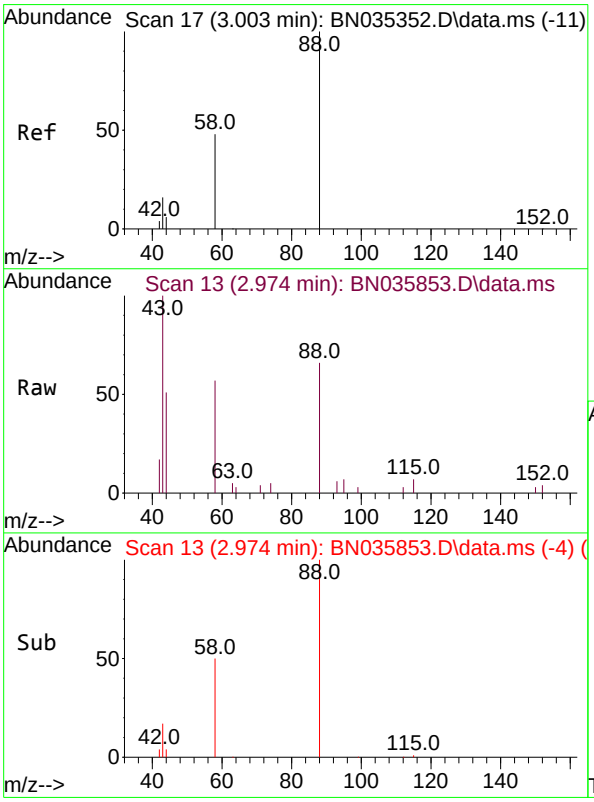
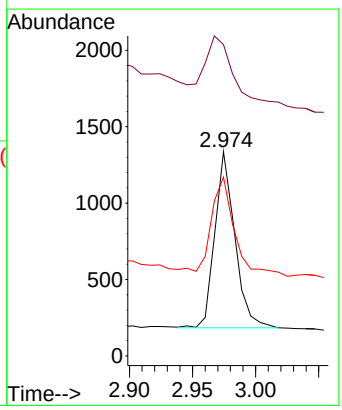
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

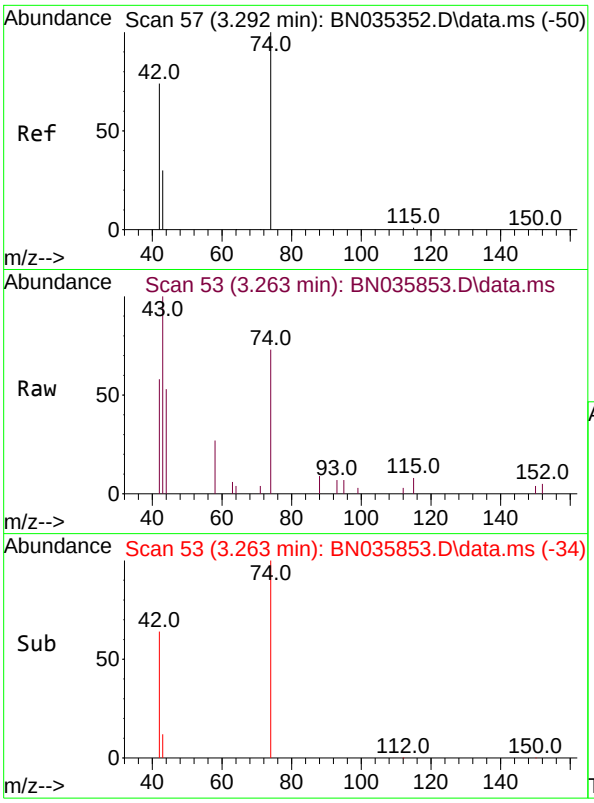


#2
1,4-Dioxane
Concen: 0.452 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 88 Resp: 1269

Ion	Ratio	Lower	Upper
88	100		
43	50.4	17.2	25.8#
58	57.4	44.5	66.7

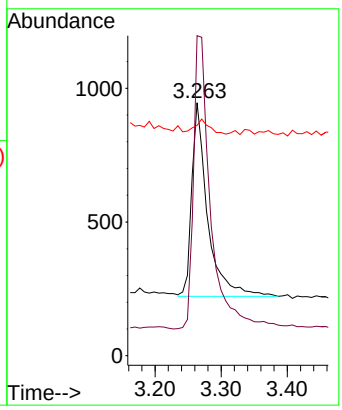




#3
n-Nitrosodimethylamine
Concen: 0.516 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 42 Resp: 120

Ion	Ratio	Lower	Upper
42	100		
74	165.3	124.9	187.3
44	6.5	2.2	3.4



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations
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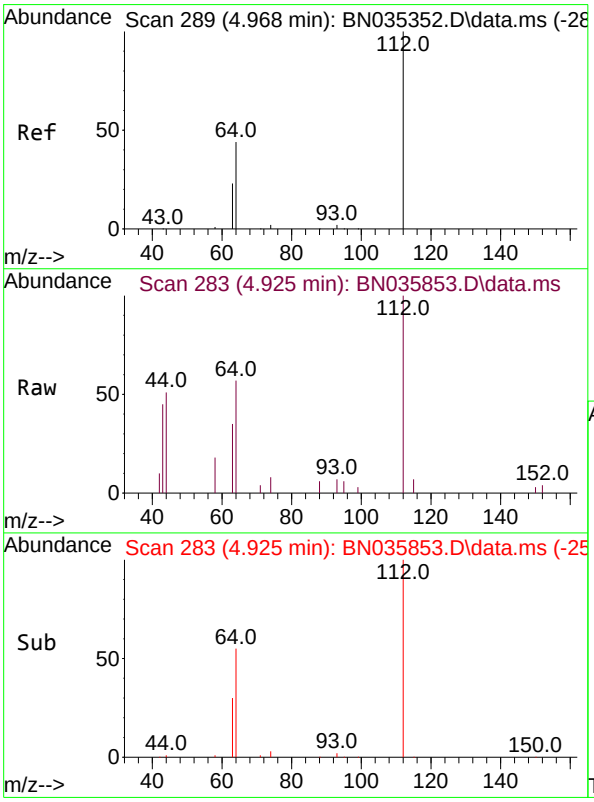
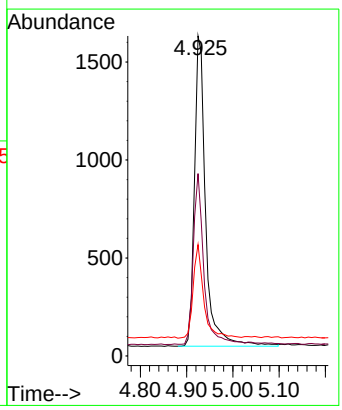
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

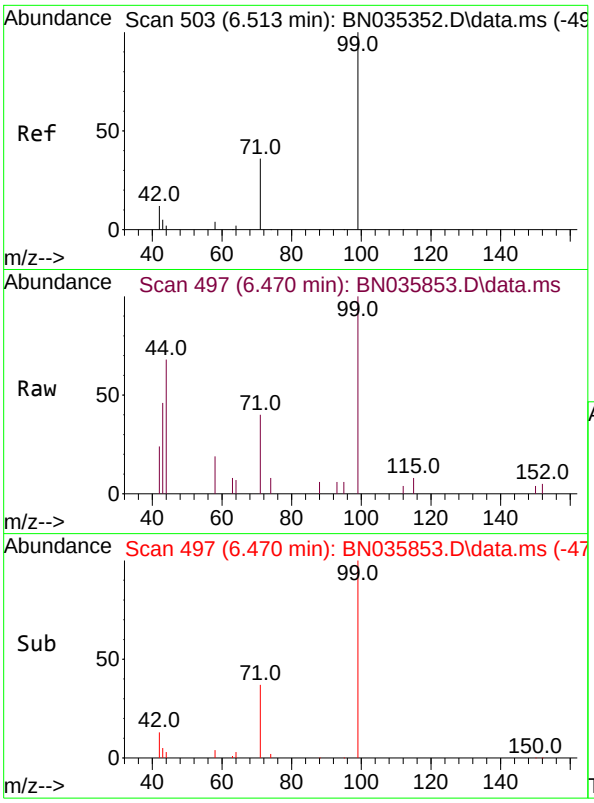


#4
2-Fluorophenol
Concen: 0.364 ng
RT: 4.925 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:112 Resp: 2679

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.3	21.0	31.6

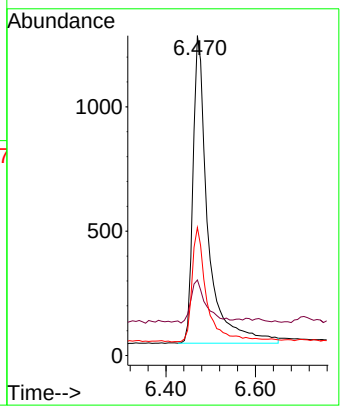




#5
Phenol-d6
Concen: 0.325 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 99 Resp: 287

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.4	29.3	43.9



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations
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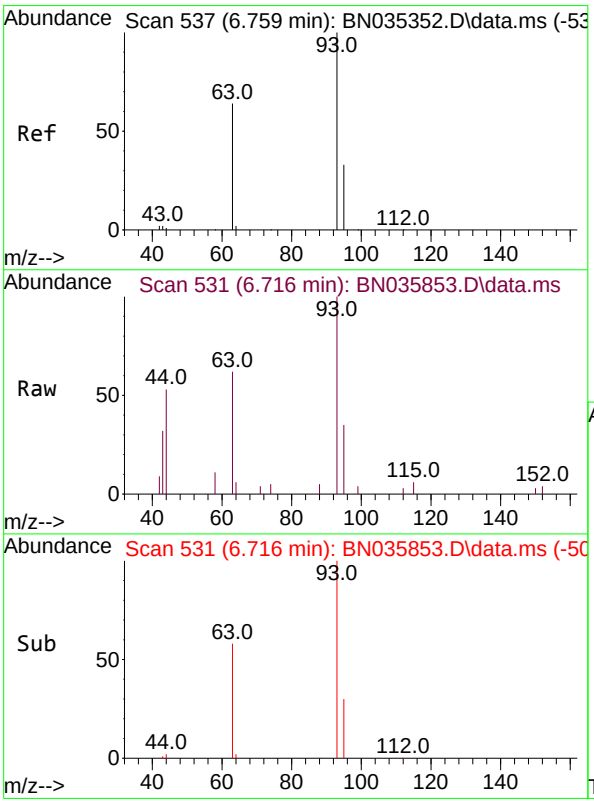
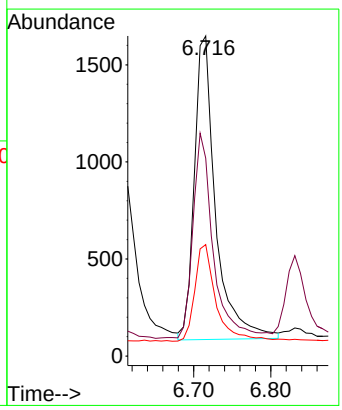
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

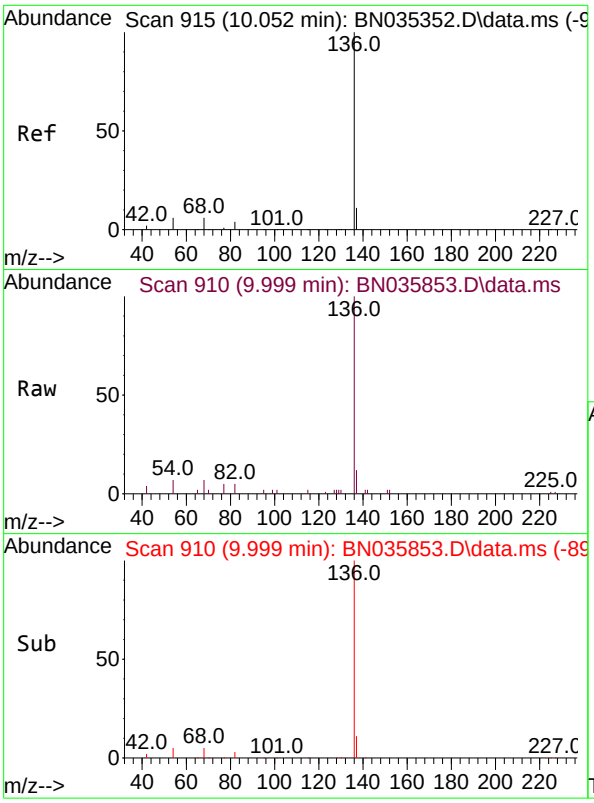


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 93 Resp: 3004

Ion	Ratio	Lower	Upper
93	100		
63	64.0	50.4	75.6
95	32.8	25.7	38.5

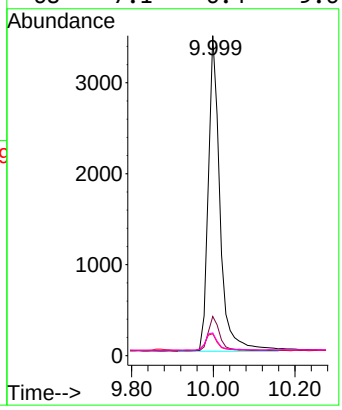




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:136 Resp: 690

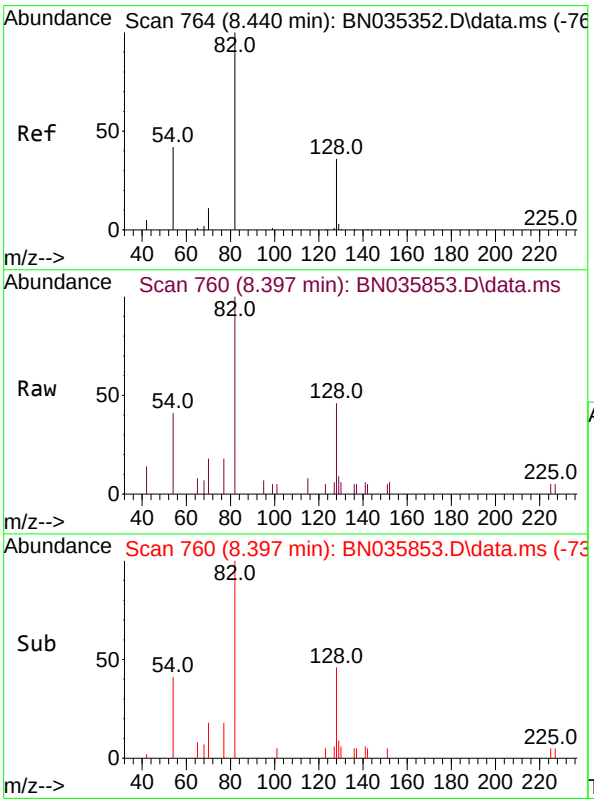
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations
APPROVED

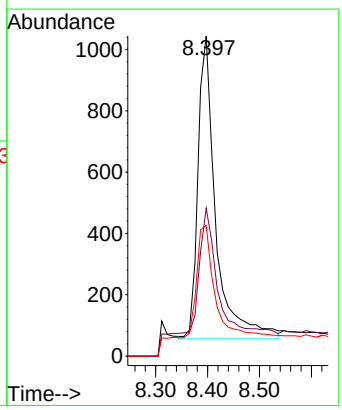
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

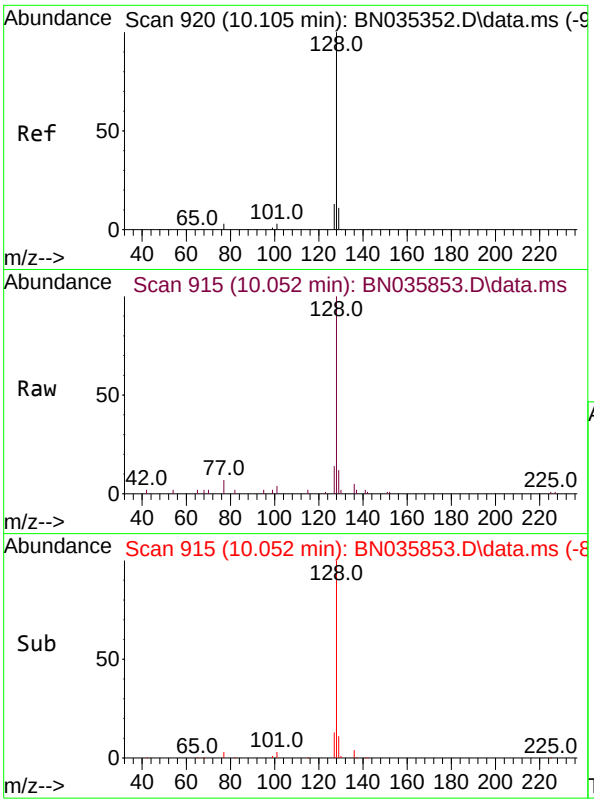


#8
Nitrobenzene-d5
Concen: 0.558 ng m
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 82 Resp: 2354

Ion	Ratio	Lower	Upper
82	100		
128	46.2	33.4	50.0
54	40.8	36.7	55.1





#9
Naphthalene
Concen: 0.443 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

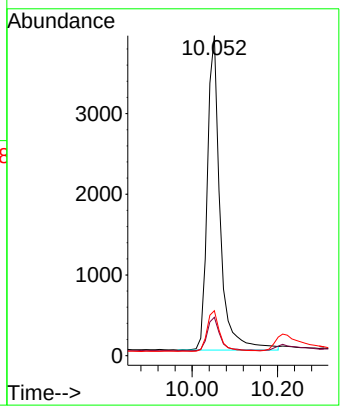
Tgt Ion:128 Resp: 807

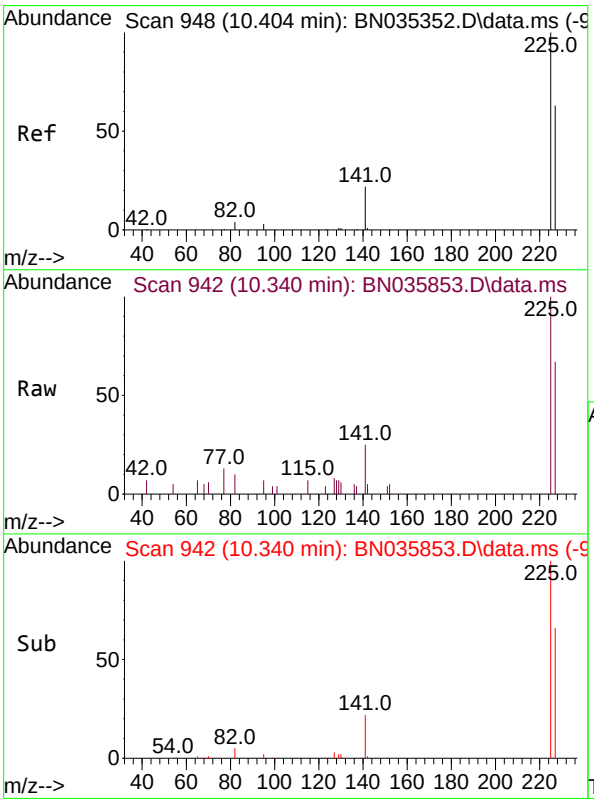
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.0	11.4	17.2

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

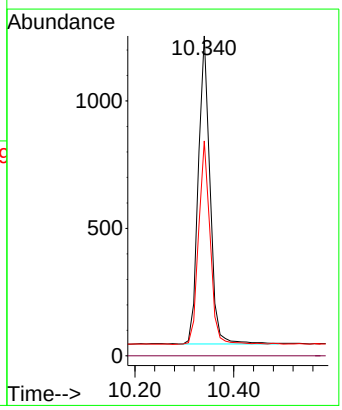


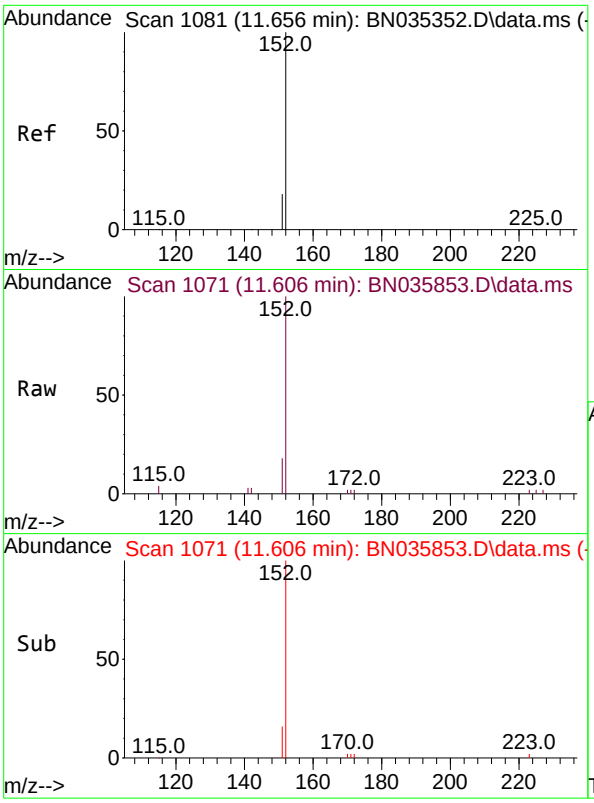


#10
Hexachlorobutadiene
Concen: 0.470 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:225 Resp: 1977

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.529 ng
RT: 11.606 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 572

Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0

Instrument :
BNA_N
ClientSampleId :
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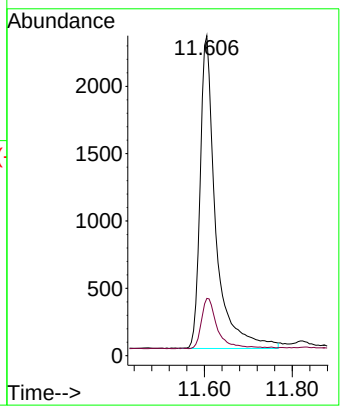
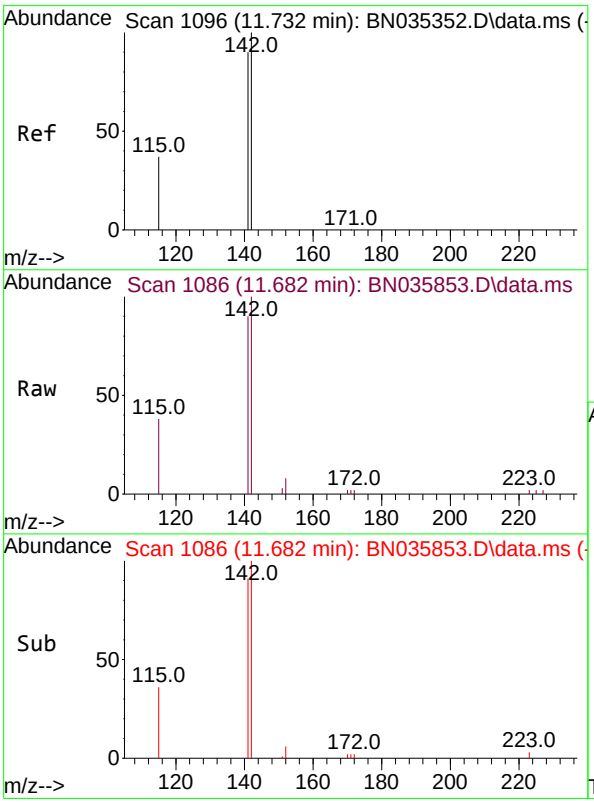
Supervised By :mohammad ahmed 12/30/2024

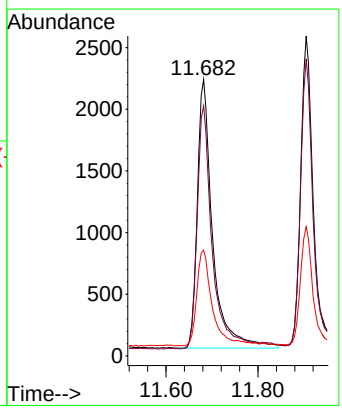


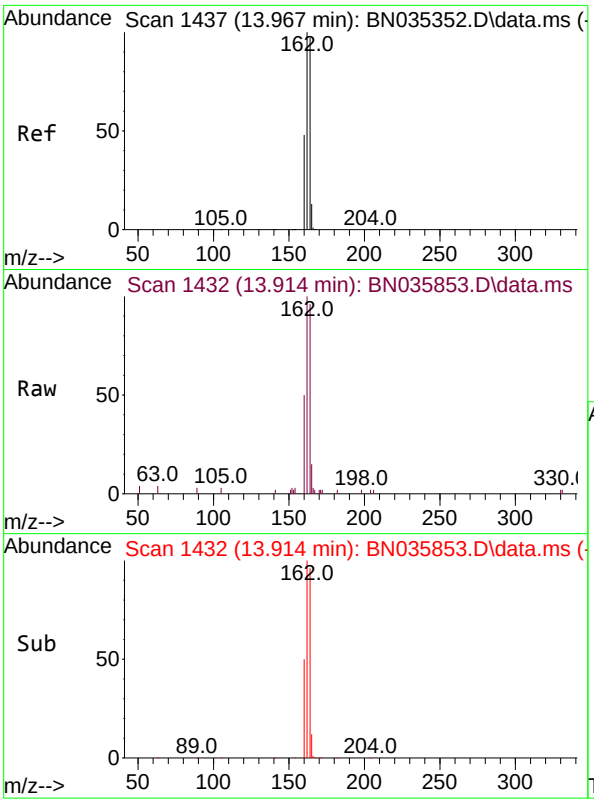


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:142 Resp: 5041

Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.2	108.4
115	38.3	31.4	47.0

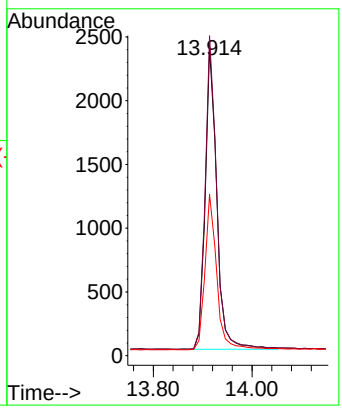




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:164 Resp: 387

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.5	40.1	60.1



Instrument :
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ClientSampleId :
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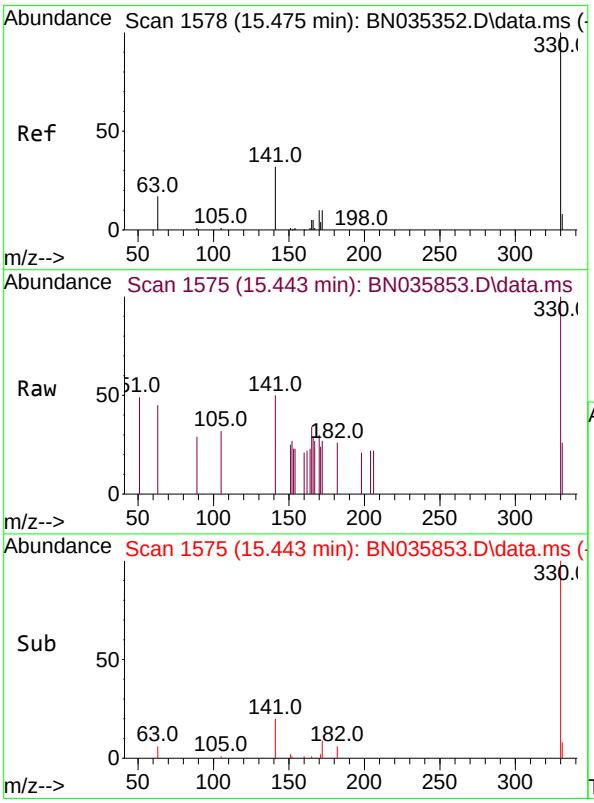
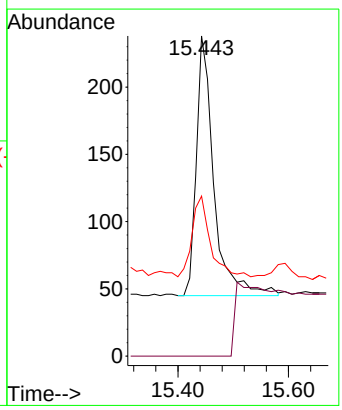
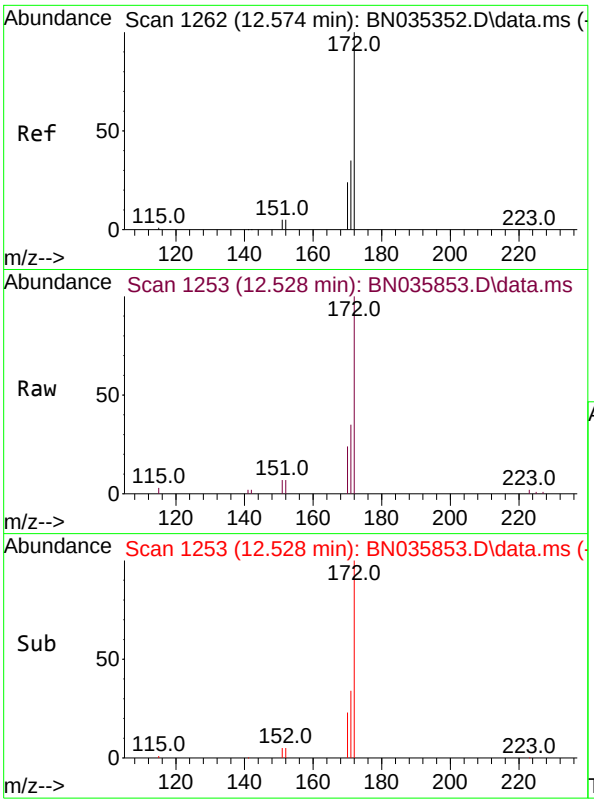


#14
2,4,6-Tribromophenol
Concen: 0.162 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:330 Resp: 445

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.2	26.6	40.0

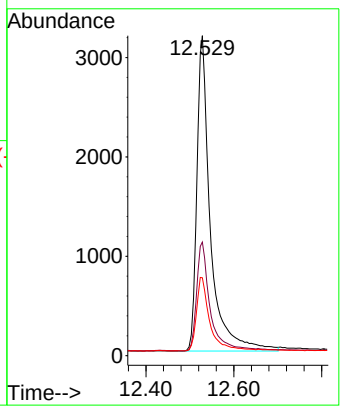




#15
2-Fluorobiphenyl
Concen: 0.466 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:172 Resp: 681

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.0	43.4
170	24.3	19.8	29.8



Instrument :
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ClientSampleId :
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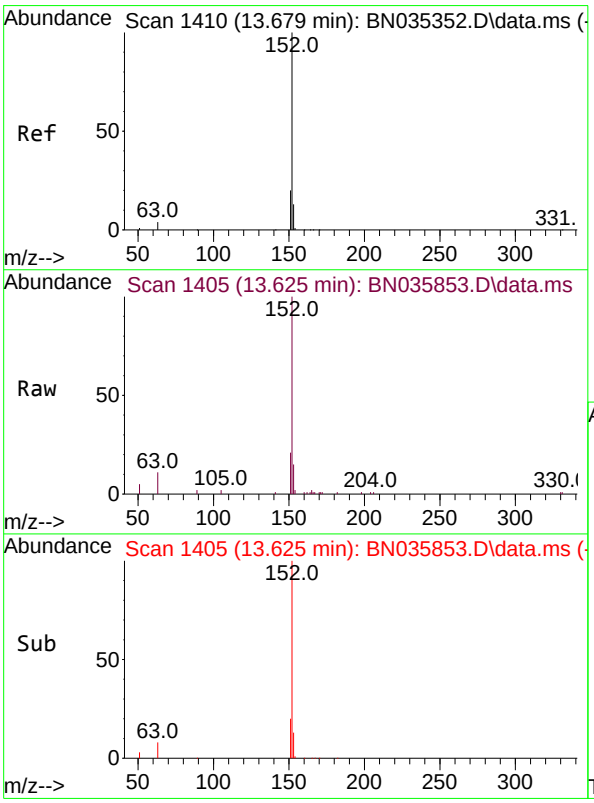
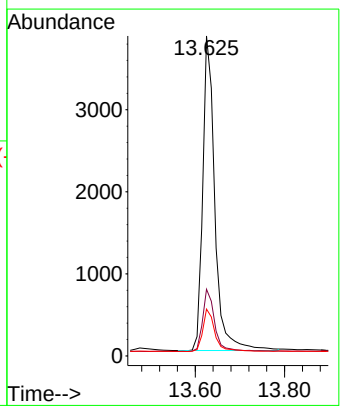
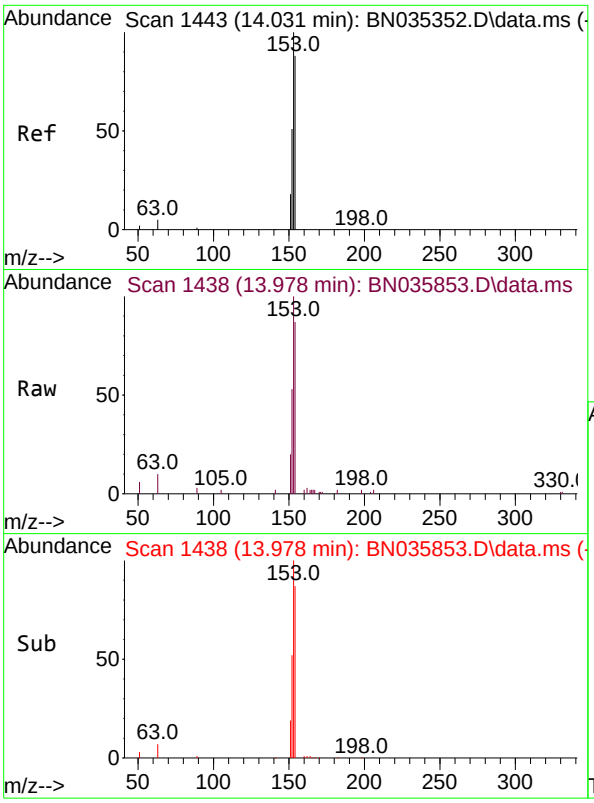


#16
Acenaphthylene
Concen: 0.443 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 7205

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.3	10.4	15.6

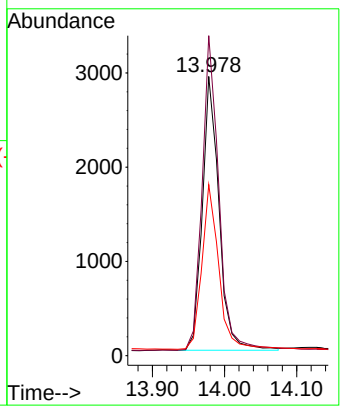




#17
Acenaphthene
Concen: 0.434 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:154 Resp: 468

Ion	Ratio	Lower	Upper
154	100		
153	116.4	92.6	139.0
152	61.2	49.0	73.6



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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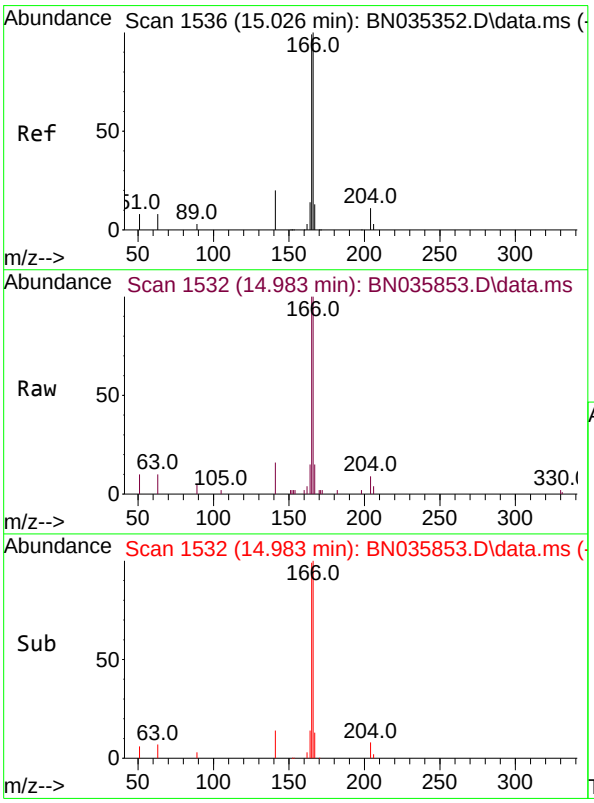
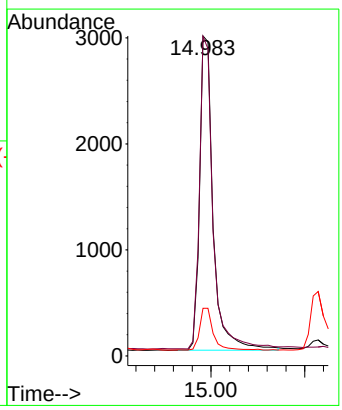
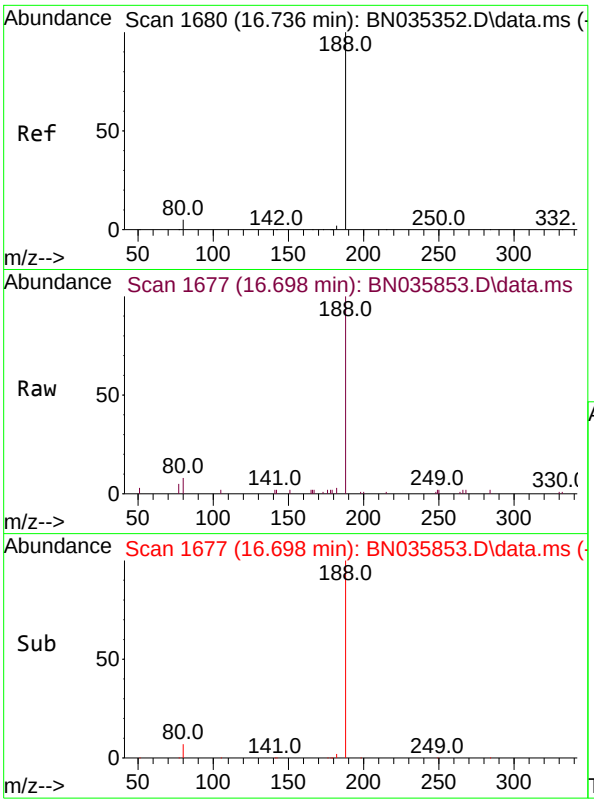


#18
Fluorene
Concen: 0.385 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:166 Resp: 5947

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.3	10.8	16.2

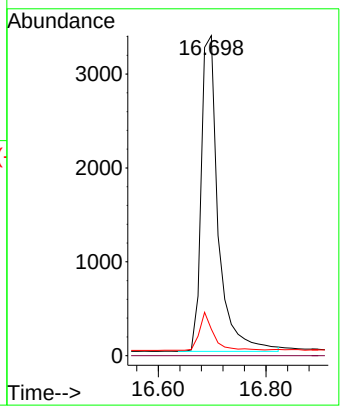




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:188 Resp: 740

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#



Instrument :
BNA_N
ClientSampleId :
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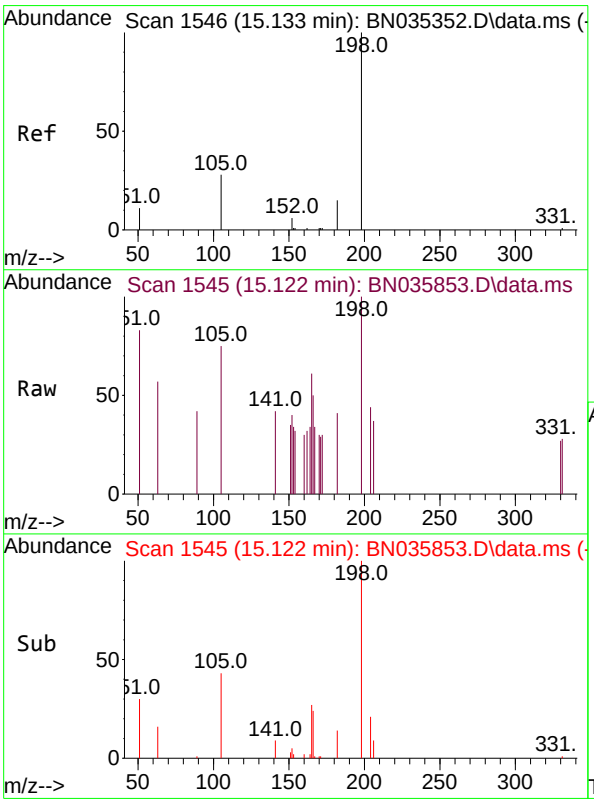
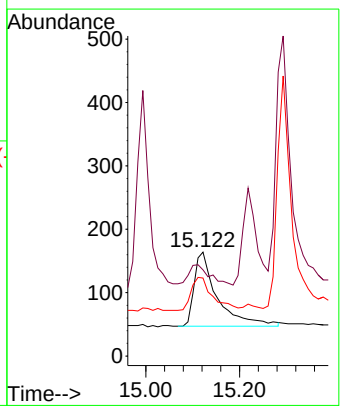
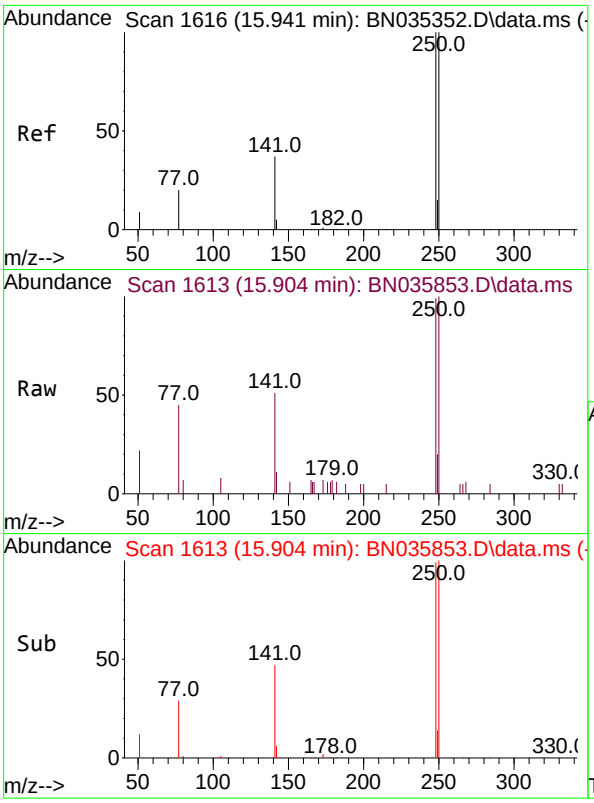


#20
4,6-Dinitro-2-methylphenol
Concen: 0.554 ng
RT: 15.122 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:198 Resp: 403

Ion	Ratio	Lower	Upper
198	100		
51	82.9	46.5	69.7#
105	75.0	45.3	67.9#





#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:248 Resp: 182

Ion	Ratio	Lower	Upper
248	100		
250	101.3	80.6	120.8
141	51.2	31.5	47.3#

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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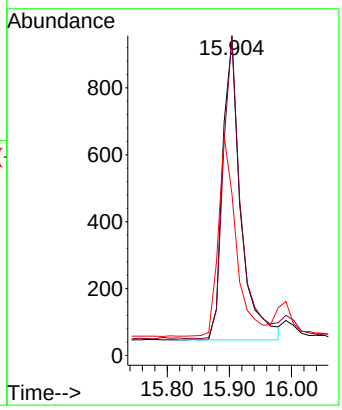
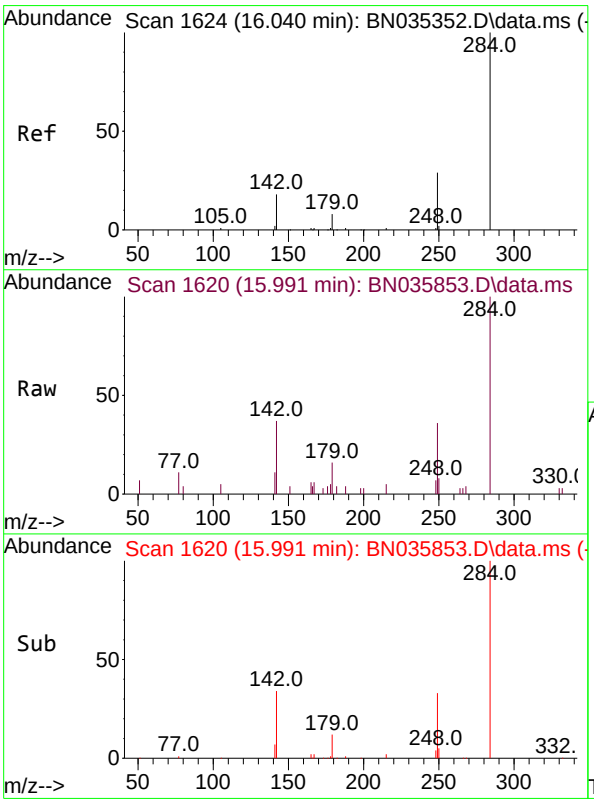
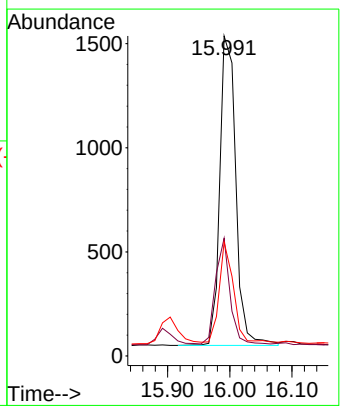


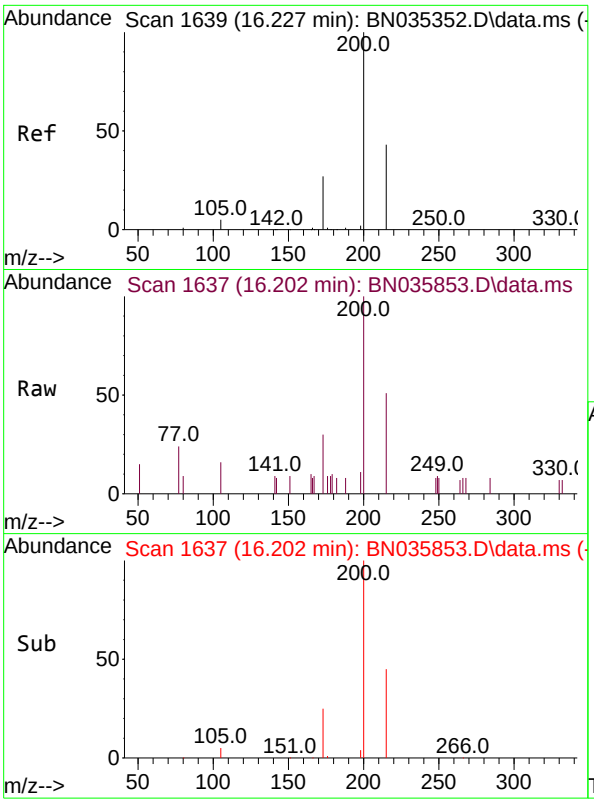


#22
Hexachlorobenzene
Concen: 0.522 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:284 Resp: 2652

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	28.9	24.6	36.8

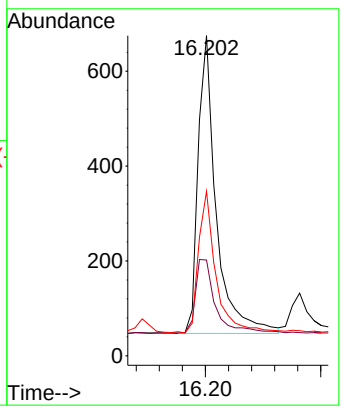




#23
Atrazine
Concen: 0.445 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:200 Resp: 137(

Ion	Ratio	Lower	Upper
200	100		
173	29.9	24.1	36.1
215	51.4	36.9	55.3



Instrument :
BNA_N
ClientSampleId :
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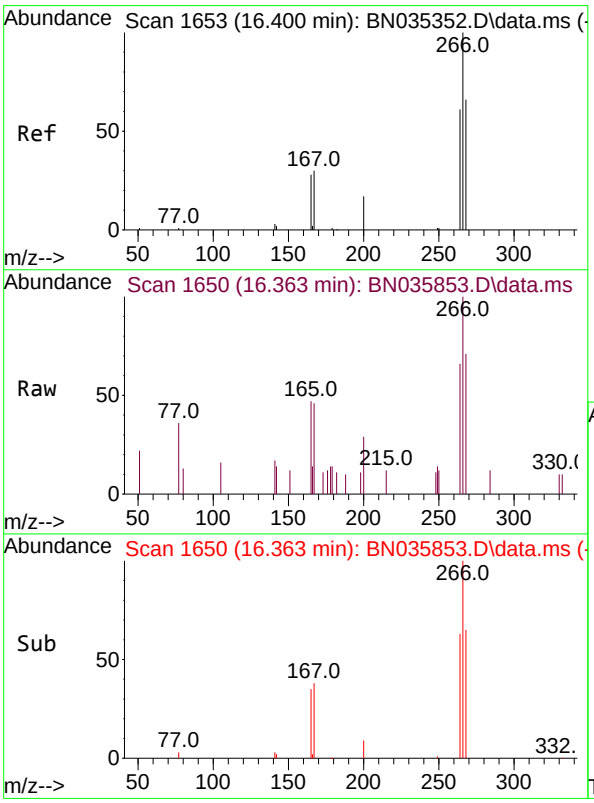
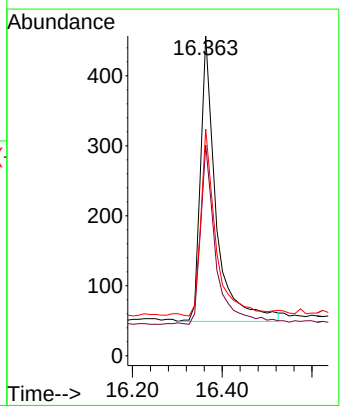
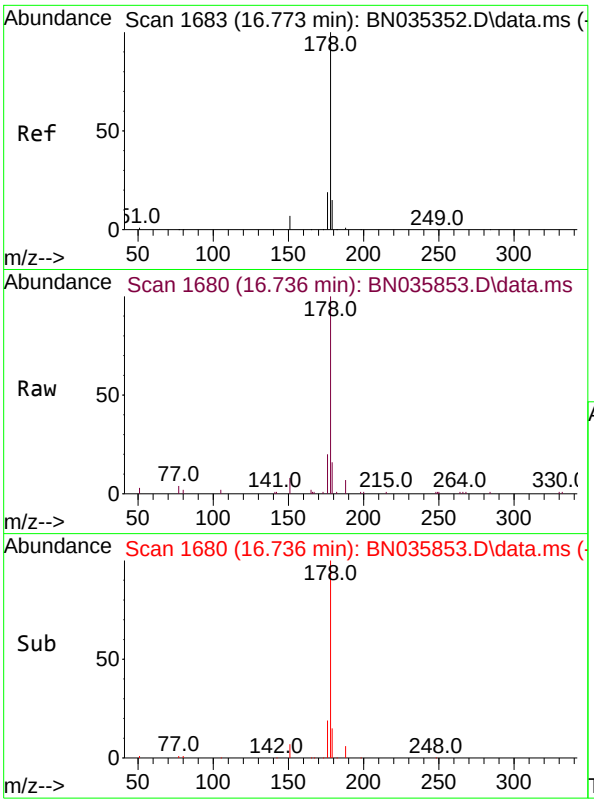


#24
Pentachlorophenol
Concen: 0.445 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:266 Resp: 985

Ion	Ratio	Lower	Upper
266	100		
264	62.0	42.3	63.5
268	61.4	43.3	64.9

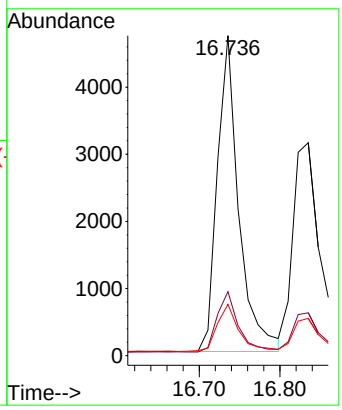




#25
Phenanthrene
Concen: 0.427 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:178 Resp: 867

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



Instrument :
BNA_N
ClientSampleId :
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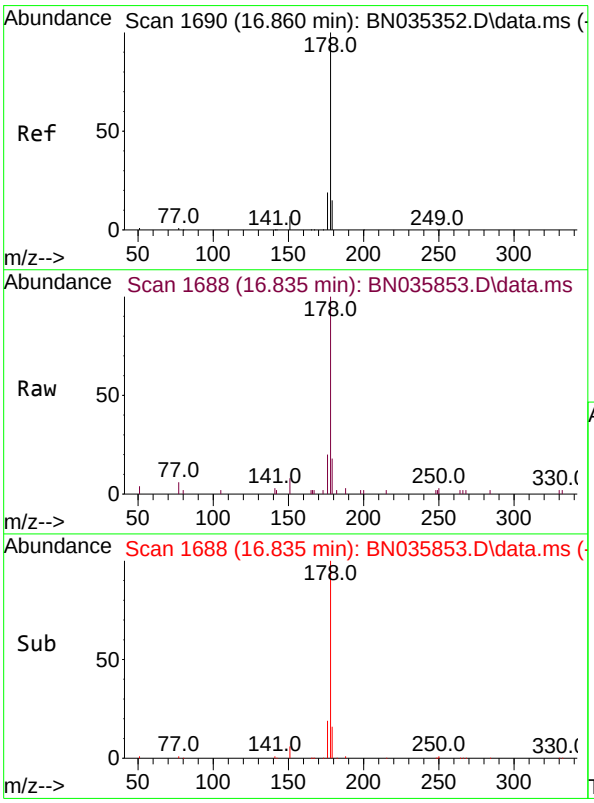
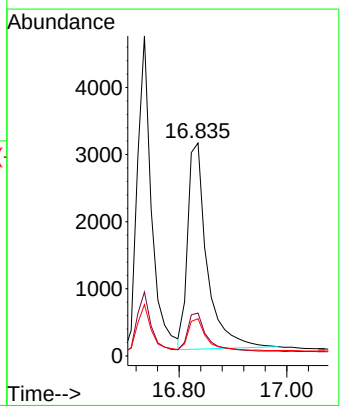
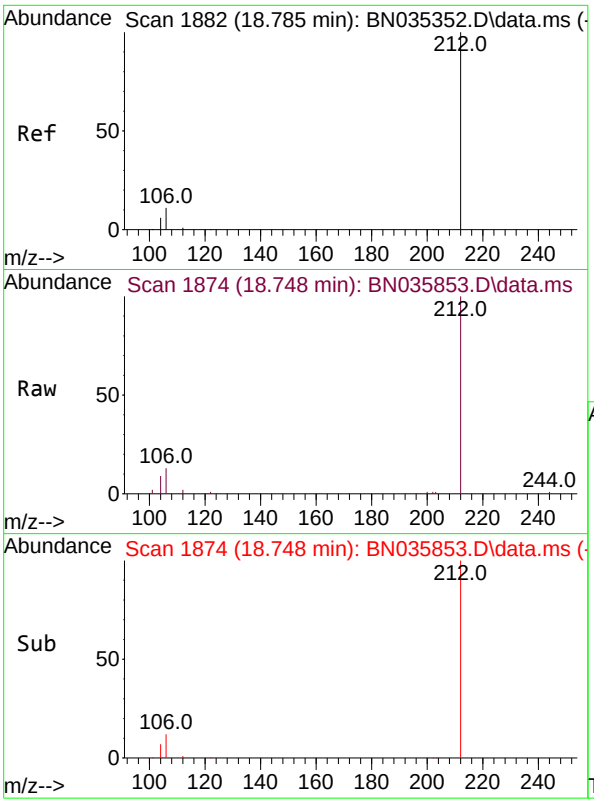


#26
Anthracene
Concen: 0.416 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:178 Resp: 7654

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

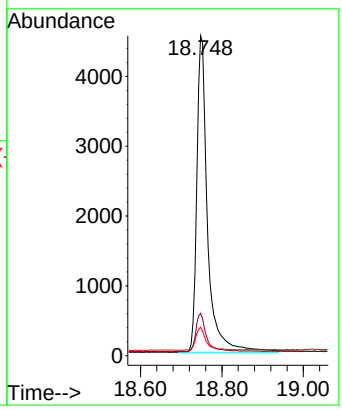




#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:212 Resp: 830

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	7.2	5.3	7.9



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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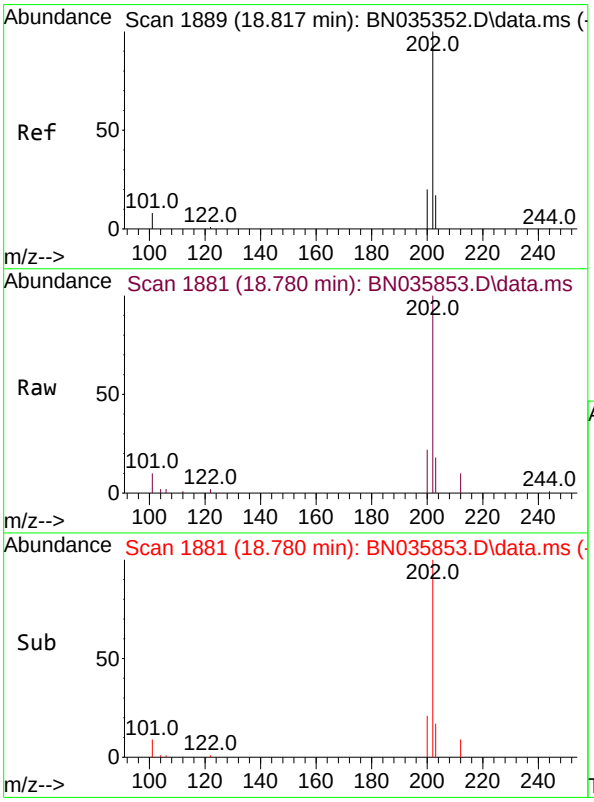
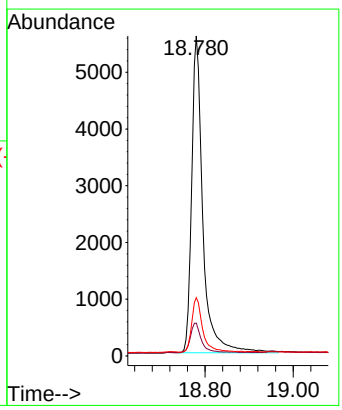
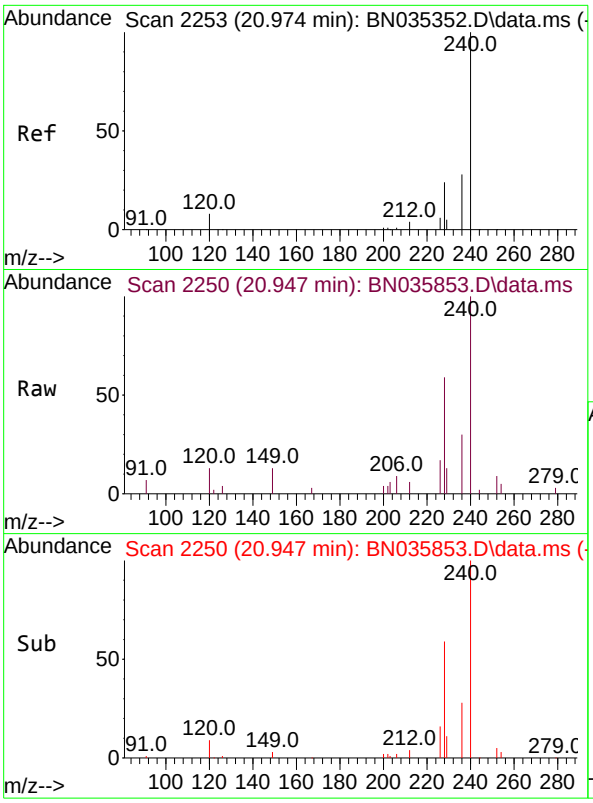


#28
Fluoranthene
Concen: 0.360 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 9853

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	16.6	13.7	20.5

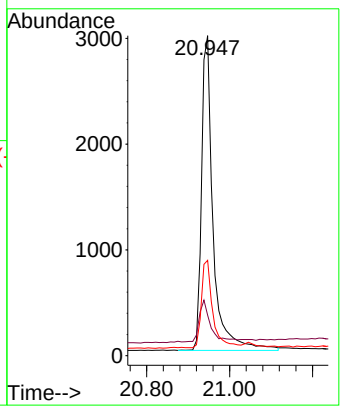




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:240 Resp: 574

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9
236	29.8	22.9	34.3



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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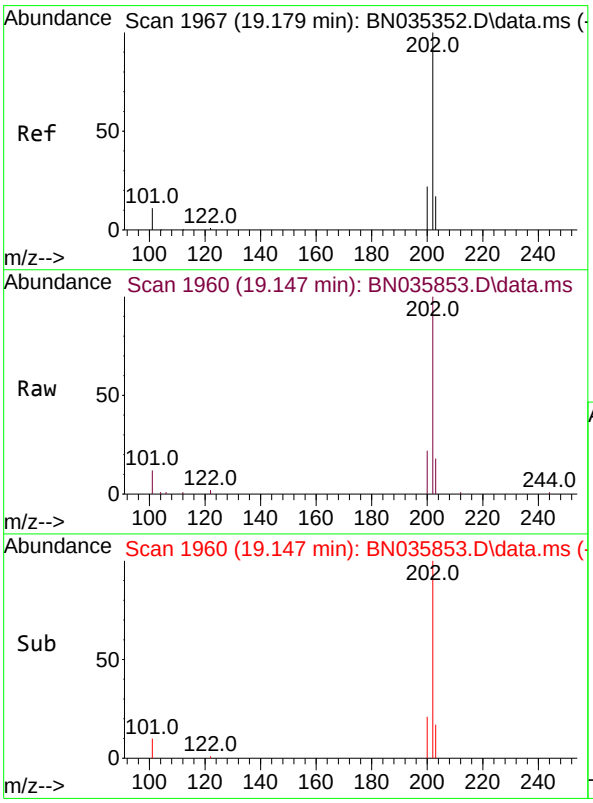
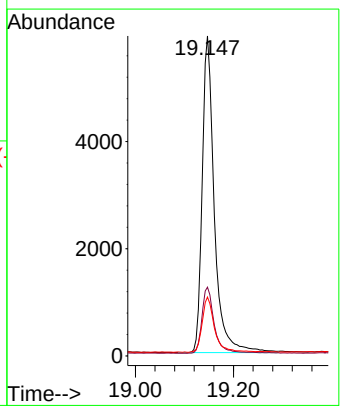
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

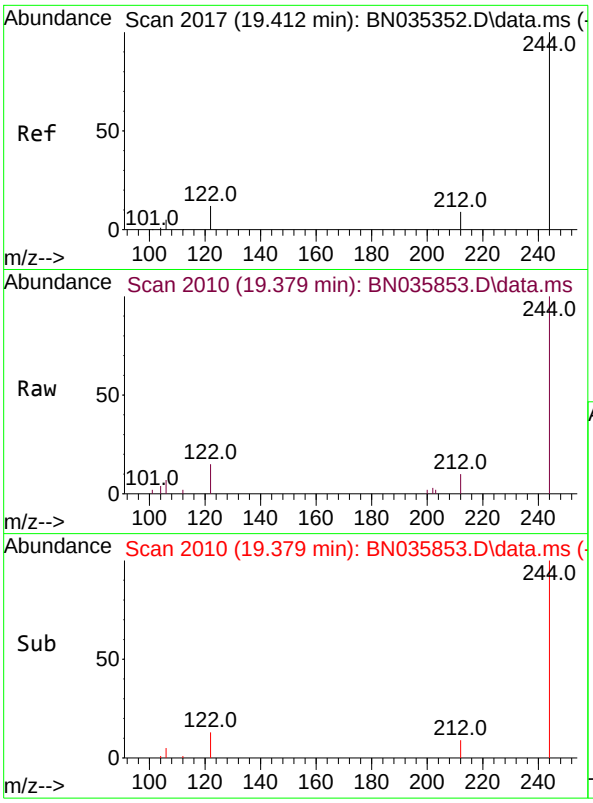


#30
Pyrene
Concen: 0.479 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 10152

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

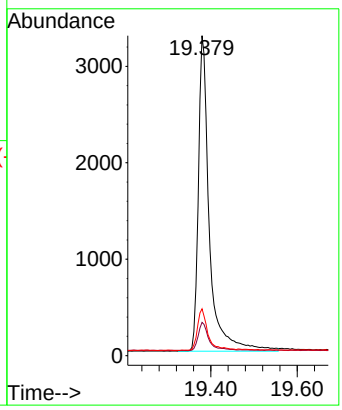




#31
Terphenyl-d14
Concen: 0.511 ng
RT: 19.379 min Scan# 2(
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:244 Resp: 578(

Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	14.6	10.3	15.5



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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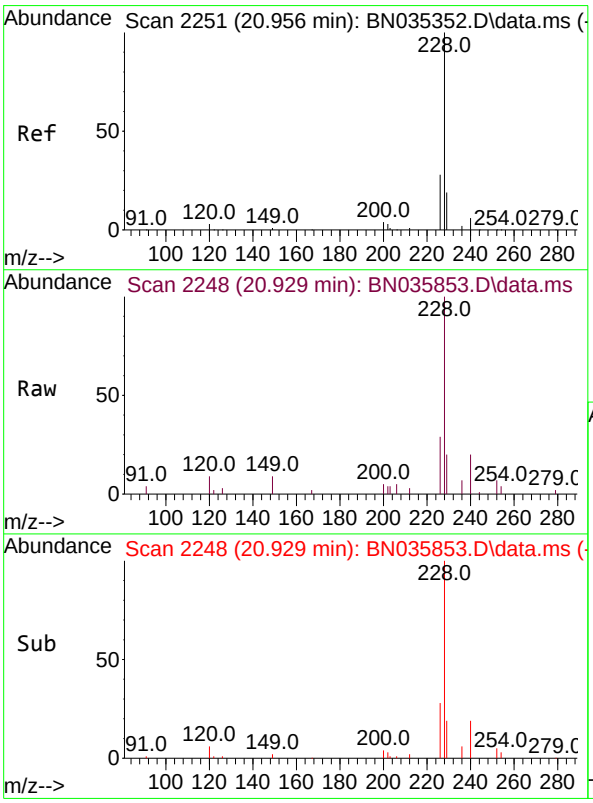
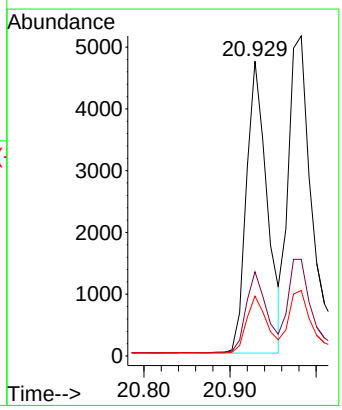
Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

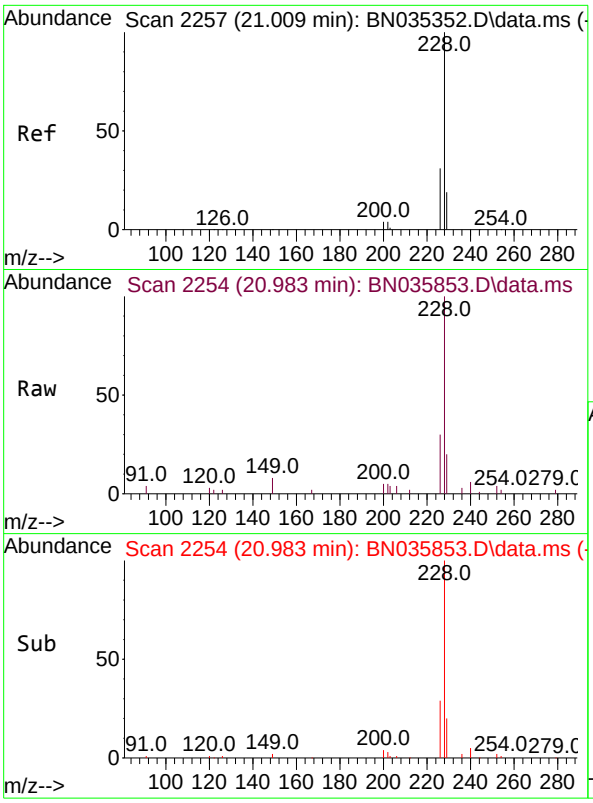


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:228 Resp: 7921

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	20.3	15.8	23.8

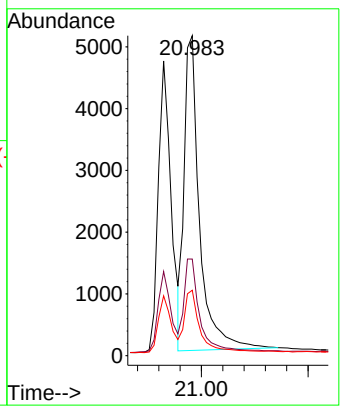




#33
Chrysene
Concen: 0.493 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:228 Resp: 1021

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	20.5	15.9	23.9



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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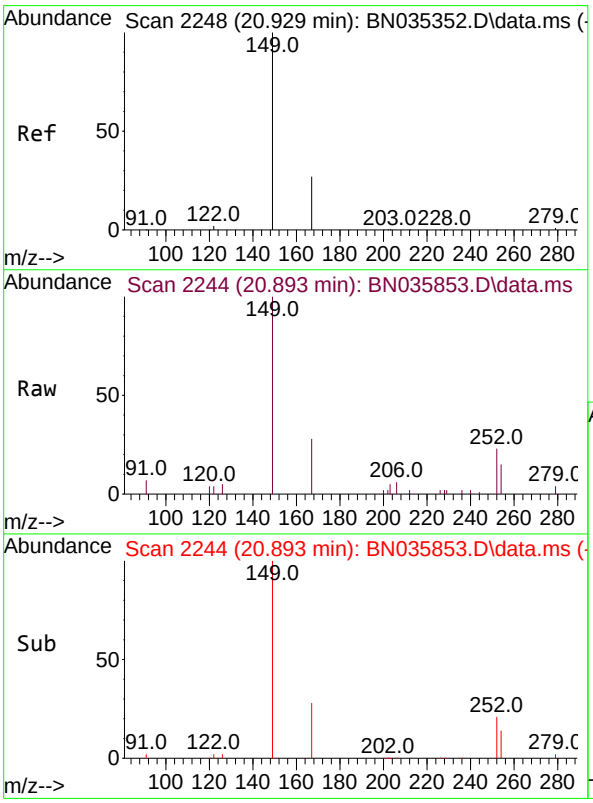
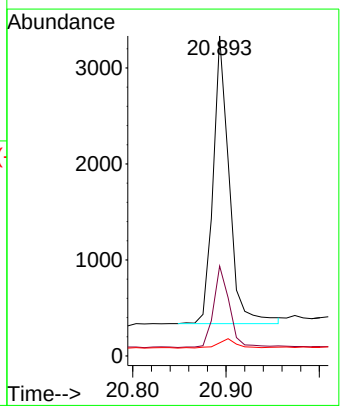
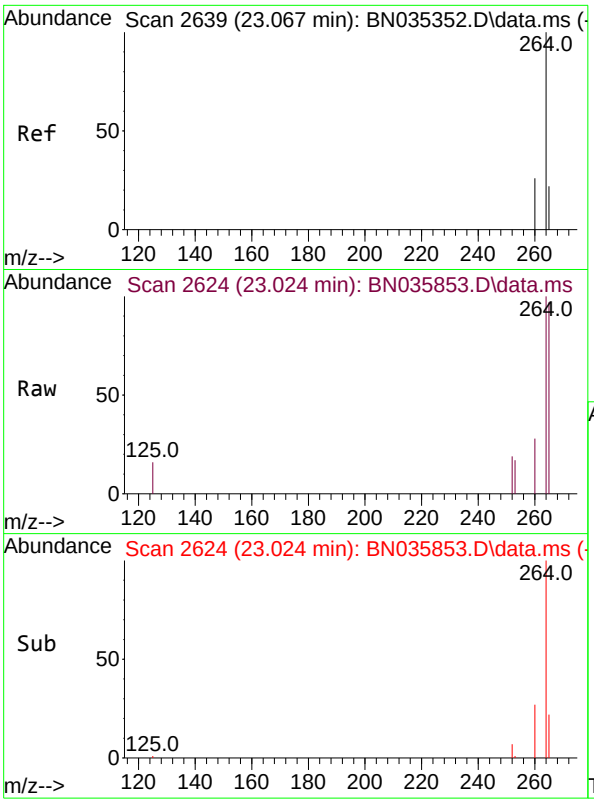


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.451 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:149 Resp: 3576

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.7	2.7	4.1

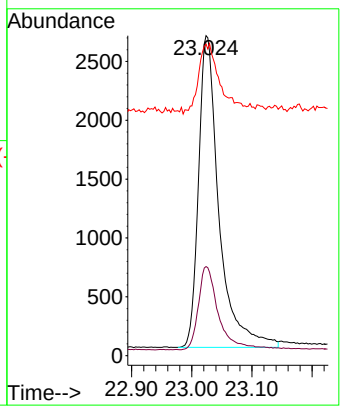




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:264 Resp: 625

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	97.4	40.2	60.4



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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Reviewed By :Yogesh Patel 12/27/2024
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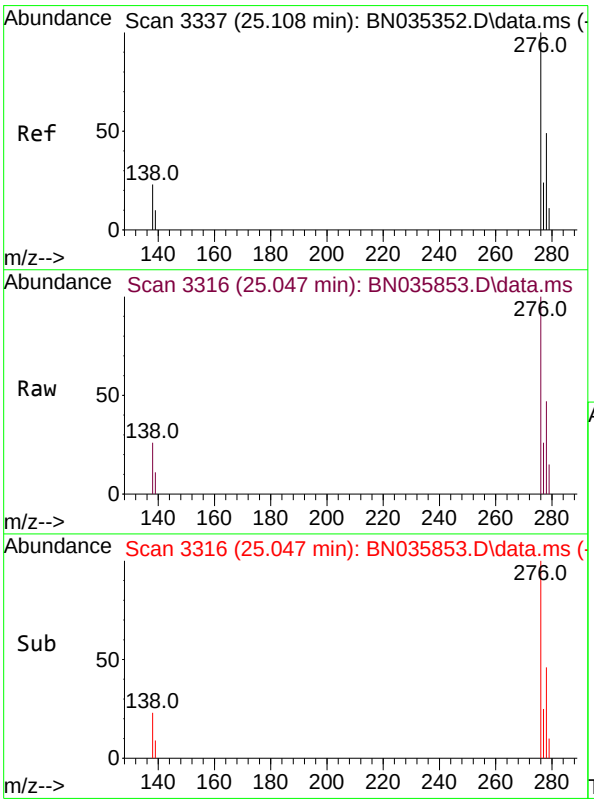
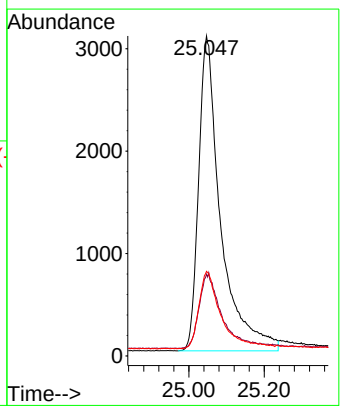
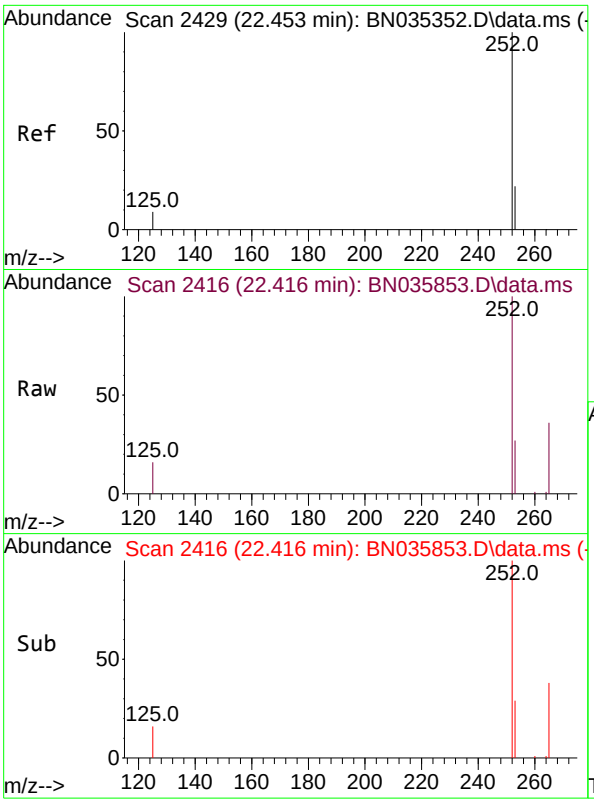


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.510 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.020 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:276 Resp: 12472

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.8	19.8	29.6

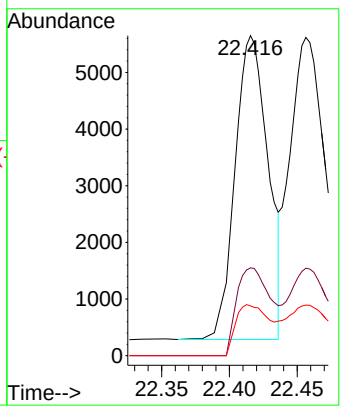




#37
Benzo(b)fluoranthene
Concen: 0.584 ng
RT: 22.416 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:252 Resp: 1335

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.6	29.4
125	15.6	9.6	14.4#



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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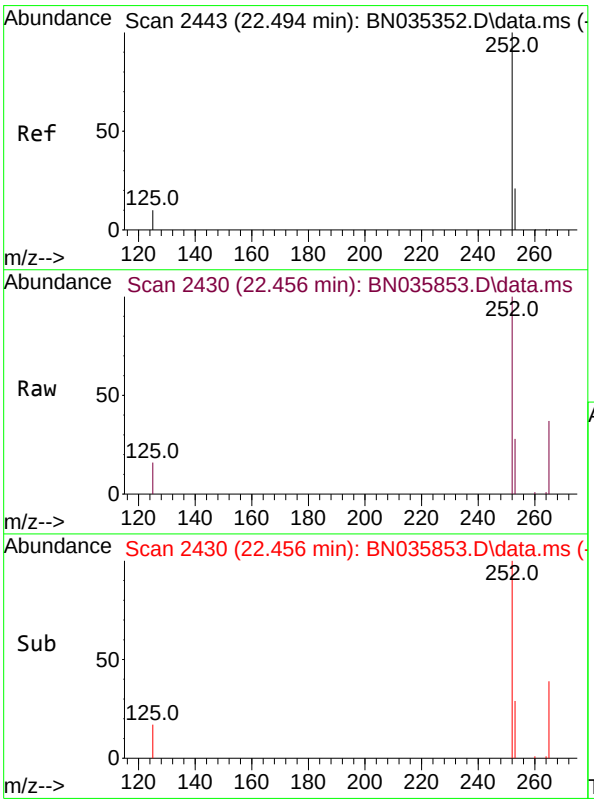
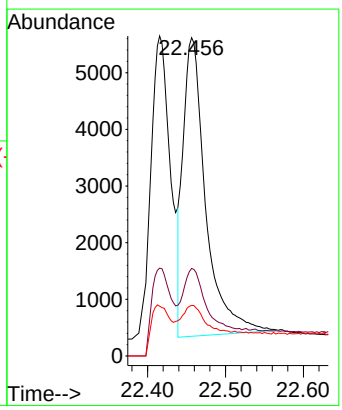
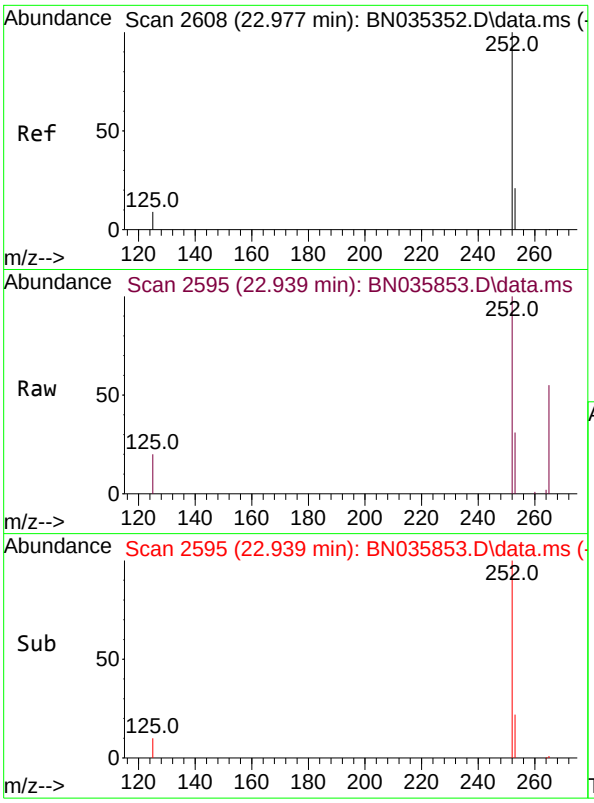


#38
Benzo(k)fluoranthene
Concen: 0.473 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:252 Resp: 10641

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.5	29.3
125	15.9	10.2	15.4#

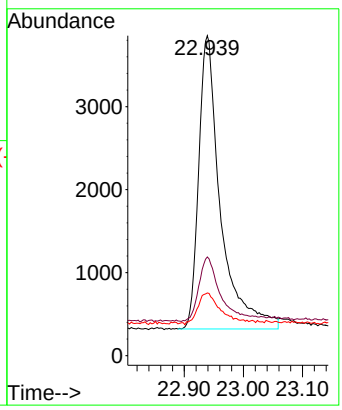




#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:252 Resp: 906

Ion	Ratio	Lower	Upper
252	100		
253	30.9	20.2	30.4#
125	19.6	10.9	16.3#



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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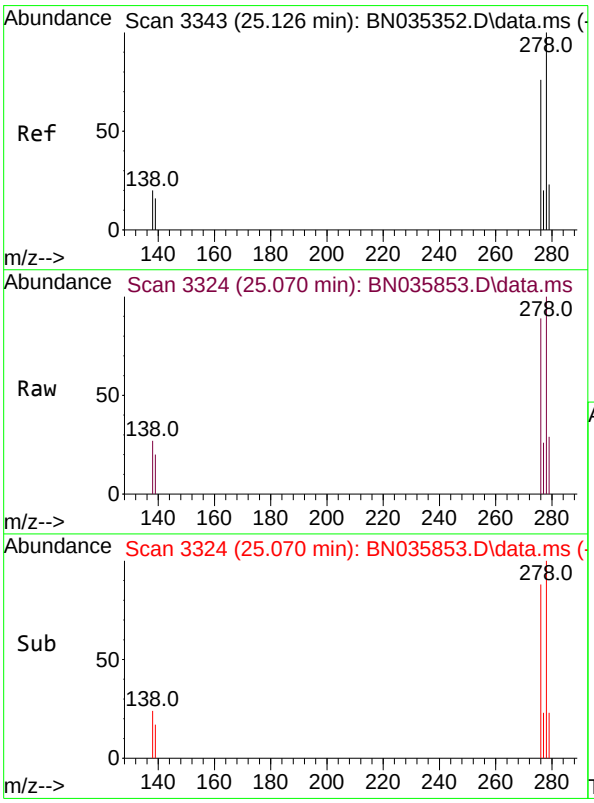
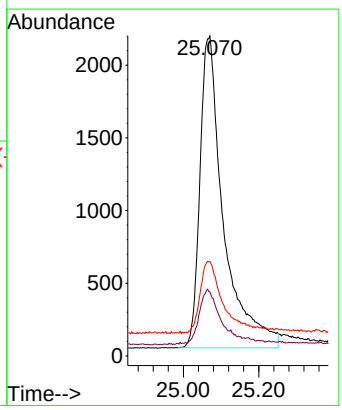
Supervised By :mohammad ahmed 12/30/2024

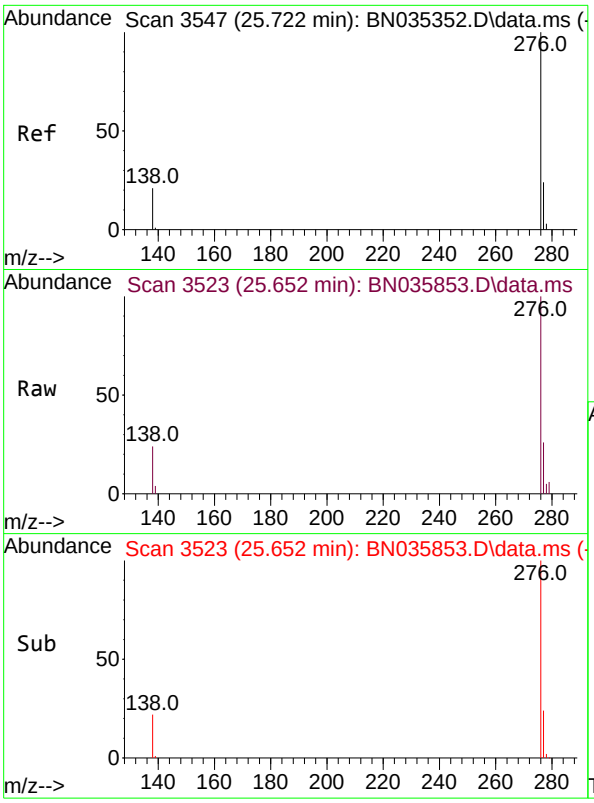


#40
Dibenzo(a,h)anthracene
Concen: 0.483 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:278 Resp: 9318

Ion	Ratio	Lower	Upper
278	100		
139	20.0	14.2	21.4
279	29.5	20.5	30.7

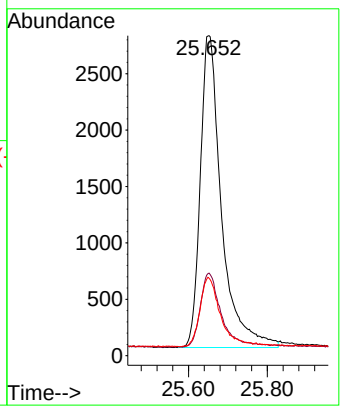




#41
Benzo(g,h,i)perylene
Concen: 0.513 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:276 Resp: 1035

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	24.2	17.8	26.8



Instrument :
BNA_N
ClientSampleId :
PB165724BSD

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Reviewed By :Yogesh Patel 12/27/2024
Supervised By :mohammad ahmed 12/30/2024

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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:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035712.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035712.D	Nitrobenzene-d5	yogesh	12/21/2024 1:12:22 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035729.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:50 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Benzo(k)fluoranthene	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035731.D	Nitrobenzene-d5	yogesh	12/21/2024 1:13:55 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035747.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:30 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	bis(2-Chloroethyl)ether	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035749.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:45:33 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
PB165724BS	BN035764.D	Bis(2-ethylhexyl)phthalate	Jagrut	12/23/2024 10:46:14 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
PB165724BS	BN035764.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:14 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN121924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035765.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035765.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:17 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Benzo(k)fluoranthene	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	Peak Integrated by Software
SSTDCCC0.4	BN035767.D	Nitrobenzene-d5	Jagrut	12/23/2024 10:46:19 AM	mohammad	12/24/2024 11:31:00 PM	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
P5314-02	BN035785.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:48 AM	mohammad	12/26/2024 1:14:41 AM	Peak Integrated by Software
P5314-04	BN035786.D	Nitrobenzene-d5	Yogesh	12/24/2024 8:43:49 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
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
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

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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	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	12/30/2024 12:23:04 AM	Peak Integrated by Software
SSTDCCC0.4	BN035845.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:06 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
PB165724BL	BN035846.D	Nitrobenzene-d5	yogesh	12/30/2024 12:20:49 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
PB165724BSD	BN035853.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:32 AM	mohammad	12/30/2024 12:23:04 AM	Peak Integrated by Software
SSTDCCC0.4	BN035861.D	Nitrobenzene-d5	yogesh	12/27/2024 3:53:44 AM	mohammad	12/30/2024 12:23:04 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 # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM				
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM				
SubDirectory	BN121924	HP Acquire Method	BNA_N		HP Processing Method	bn112724	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	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	BN035711.D	19 Dec 2024 18:44	RC/JU	Ok
2	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23	RC/JU	Ok,M
3	PB165596BL	BN035713.D	19 Dec 2024 20:35	RC/JU	Ok,M
4	P5261-01	BN035714.D	19 Dec 2024 21:11	RC/JU	Ok,M
5	P5261-02	BN035715.D	19 Dec 2024 21:47	RC/JU	Ok,M
6	P5261-03	BN035716.D	19 Dec 2024 22:23	RC/JU	Ok,M
7	P5261-04	BN035717.D	19 Dec 2024 22:58	RC/JU	Dilution
8	P5261-05	BN035718.D	19 Dec 2024 23:34	RC/JU	Ok,M
9	P5261-06	BN035719.D	20 Dec 2024 00:10	RC/JU	Ok,M
10	P5261-07	BN035720.D	20 Dec 2024 00:46	RC/JU	Ok,M
11	P5261-08	BN035721.D	20 Dec 2024 01:22	RC/JU	Ok,M
12	P5261-09	BN035722.D	20 Dec 2024 01:58	RC/JU	Dilution
13	P5261-10	BN035723.D	20 Dec 2024 02:34	RC/JU	Ok,M
14	P5261-11	BN035724.D	20 Dec 2024 03:10	RC/JU	Ok,M
15	P5261-16	BN035725.D	20 Dec 2024 03:46	RC/JU	Ok,M
16	P5261-15	BN035726.D	20 Dec 2024 04:22	RC/JU	Dilution
17	P5261-17	BN035727.D	20 Dec 2024 04:58	RC/JU	Ok,M
18	PB165596BS	BN035728.D	20 Dec 2024 05:34	RC/JU	Ok,M
19	SSTDCCC0.4	BN035729.D	20 Dec 2024 06:10	RC/JU	Ok,M
20	DFTPP	BN035730.D	20 Dec 2024 07:25	RC/JU	Ok
21	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165667BL	BN035732.D	20 Dec 2024 08:40	RC/JU	Ok,M
23	P5280-03	BN035733.D	20 Dec 2024 09:16	RC/JU	Not Ok
24	P5261-12	BN035734.D	20 Dec 2024 10:29	RC/JU	Ok,M
25	P5280-04MS	BN035735.D	20 Dec 2024 11:05	RC/JU	Ok,M
26	P5280-05MSD	BN035736.D	20 Dec 2024 11:41	RC/JU	Ok,M
27	P5261-13MS	BN035737.D	20 Dec 2024 12:17	RC/JU	Ok,M
28	P5261-14MSD	BN035738.D	20 Dec 2024 12:53	RC/JU	Ok,M
29	P5261-18	BN035739.D	20 Dec 2024 13:29	RC/JU	Ok,M
30	P5261-19	BN035740.D	20 Dec 2024 14:05	RC/JU	Dilution
31	P5261-20	BN035741.D	20 Dec 2024 14:41	RC/JU	Ok,M
32	P5281-01	BN035742.D	20 Dec 2024 15:18	RC/JU	Ok,M
33	P5317-01	BN035743.D	20 Dec 2024 15:54	RC/JU	Ok,M
34	P5317-02	BN035744.D	20 Dec 2024 16:30	RC/JU	Ok,M
35	P5317-03	BN035745.D	20 Dec 2024 17:06	RC/JU	Ok,M
36	P5317-04	BN035746.D	20 Dec 2024 17:42	RC/JU	Ok,M
37	SSTDCCC0.4	BN035747.D	20 Dec 2024 18:18	RC/JU	Ok,M
38	DFTPP	BN035748.D	20 Dec 2024 18:54	RC/JU	Ok
39	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33	RC/JU	Ok,M
40	PB165723BL	BN035750.D	20 Dec 2024 20:09	RC/JU	Ok,M
41	P5317-05	BN035751.D	20 Dec 2024 20:45	RC/JU	Ok,M
42	P5261-09DL	BN035752.D	20 Dec 2024 21:21	RC/JU	Ok,M
43	P5261-15DL	BN035753.D	20 Dec 2024 21:57	RC/JU	Ok,M
44	P5261-04DL	BN035754.D	20 Dec 2024 22:33	RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM				
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM				
SubDirectory	BN121924	HP Acquire Method	BNA_N		HP Processing Method	bn112724	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

45	P5317-09	BN035755.D	20 Dec 2024 23:09	RC/JU	Ok,M
46	P5317-10	BN035756.D	20 Dec 2024 23:45	RC/JU	Ok,M
47	P5317-11	BN035757.D	21 Dec 2024 00:21	RC/JU	Ok,M
48	P5317-12	BN035758.D	21 Dec 2024 00:57	RC/JU	Ok,M
49	P5317-08	BN035759.D	21 Dec 2024 01:34	RC/JU	Ok,M
50	P5317-13	BN035760.D	21 Dec 2024 02:10	RC/JU	Ok,M
51	P5317-14	BN035761.D	21 Dec 2024 02:46	RC/JU	Ok,M
52	P5284-02	BN035762.D	21 Dec 2024 03:22	RC/JU	Ok,M
53	P5284-03	BN035763.D	21 Dec 2024 03:58	RC/JU	Ok,M
54	PB165724BS	BN035764.D	21 Dec 2024 04:34	RC/JU	Ok,M
55	SSTDCCC0.4	BN035765.D	21 Dec 2024 05:10	RC/JU	Ok,M
56	DFTPP	BN035766.D	21 Dec 2024 05:46	RC/JU	Ok
57	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25	RC/JU	Ok,M
58	PB165596BL	BN035768.D	21 Dec 2024 07:01	RC/JU	Not Ok
59	P5281-04	BN035769.D	21 Dec 2024 07:37	RC/JU	Not Ok
60	P5317-15	BN035770.D	21 Dec 2024 08:13	RC/JU	Not Ok
61	P5317-16	BN035771.D	21 Dec 2024 08:49	RC/JU	Not Ok
62	P5317-17	BN035772.D	21 Dec 2024 09:25	RC/JU	Not Ok
63	P5317-18	BN035773.D	21 Dec 2024 10:01	RC/JU	Not Ok
64	P5317-19MS	BN035774.D	21 Dec 2024 10:37	RC/JU	Not Ok

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_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	

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_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	

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	12/30/2024 12:23:04 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,M
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 # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	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	BN035711.D	19 Dec 2024 18:44		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035712.D	19 Dec 2024 19:23		RC/JU	Ok,M
3	PB165596BL	PB165596BL	BN035713.D	19 Dec 2024 20:35		RC/JU	Ok,M
4	P5261-01	RE122D1-20241209	BN035714.D	19 Dec 2024 21:11		RC/JU	Ok,M
5	P5261-02	RE122D2-20241209	BN035715.D	19 Dec 2024 21:47		RC/JU	Ok,M
6	P5261-03	RE122D3-20241209	BN035716.D	19 Dec 2024 22:23		RC/JU	Ok,M
7	P5261-04	RE103D1-20241209	BN035717.D	19 Dec 2024 22:58	Need 2X Dilution	RC/JU	Dilution
8	P5261-05	RE103D2-20241209	BN035718.D	19 Dec 2024 23:34		RC/JU	Ok,M
9	P5261-06	RE103D3-20241209	BN035719.D	20 Dec 2024 00:10		RC/JU	Ok,M
10	P5261-07	RE134D1-20241209	BN035720.D	20 Dec 2024 00:46		RC/JU	Ok,M
11	P5261-08	DUP-01-20241209	BN035721.D	20 Dec 2024 01:22		RC/JU	Ok,M
12	P5261-09	RE134D3-20241210	BN035722.D	20 Dec 2024 01:58	Need 2X Dilution	RC/JU	Dilution
13	P5261-10	RE134D4-20241210	BN035723.D	20 Dec 2024 02:34		RC/JU	Ok,M
14	P5261-11	GM3-RW3-MW1-20241	BN035724.D	20 Dec 2024 03:10		RC/JU	Ok,M
15	P5261-16	RE125D3-20241210	BN035725.D	20 Dec 2024 03:46		RC/JU	Ok,M
16	P5261-15	RE125D2-20241210	BN035726.D	20 Dec 2024 04:22	Need 2X Dilution	RC/JU	Dilution
17	P5261-17	RE120D1-20241210	BN035727.D	20 Dec 2024 04:58		RC/JU	Ok,M
18	PB165596BS	PB165596BS	BN035728.D	20 Dec 2024 05:34		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN035729.D	20 Dec 2024 06:10		RC/JU	Ok,M
20	DFTPP	DFTPP	BN035730.D	20 Dec 2024 07:25		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN035731.D	20 Dec 2024 08:04		RC/JU	Ok,M
22	PB165667BL	PB165667BL	BN035732.D	20 Dec 2024 08:40		RC/JU	Ok,M
23	P5280-03	BPOW6-11-20241212	BN035733.D	20 Dec 2024 09:16	Test not Present on Login Page	RC/JU	Not Ok
24	P5261-12	RE125D1-20241210	BN035734.D	20 Dec 2024 10:29		RC/JU	Ok,M
25	P5280-04MS	BPOW6-11-20241212M	BN035735.D	20 Dec 2024 11:05		RC/JU	Ok,M
26	P5280-05MSD	BPOW6-11-20241212M	BN035736.D	20 Dec 2024 11:41		RC/JU	Ok,M
27	P5261-13MS	RE125D1-20241210MS	BN035737.D	20 Dec 2024 12:17		RC/JU	Ok,M
28	P5261-14MSD	RE125D1-20241210MS	BN035738.D	20 Dec 2024 12:53		RC/JU	Ok,M
29	P5261-18	RE120D2-20241210	BN035739.D	20 Dec 2024 13:29		RC/JU	Ok,M
30	P5261-19	RE120D3-20241210	BN035740.D	20 Dec 2024 14:05	Need 5X Dilution	RC/JU	Dilution
31	P5261-20	DUP-02-20241210	BN035741.D	20 Dec 2024 14:41		RC/JU	Ok,M
32	P5281-01	RE114D1-20241212	BN035742.D	20 Dec 2024 15:18		RC/JU	Ok,M
33	P5317-01	RE114D2-20241216	BN035743.D	20 Dec 2024 15:54		RC/JU	Ok,M
34	P5317-02	RW4-20241216	BN035744.D	20 Dec 2024 16:30		RC/JU	Ok,M
35	P5317-03	TT191D1-20241216	BN035745.D	20 Dec 2024 17:06		RC/JU	Ok,M
36	P5317-04	TT191D2-20241216	BN035746.D	20 Dec 2024 17:42		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN035747.D	20 Dec 2024 18:18		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	DFTPP	DFTPP	BN035748.D	20 Dec 2024 18:54		RC/JU	Ok
39	SSTDCCC0.4	SSTDCCC0.4	BN035749.D	20 Dec 2024 19:33		RC/JU	Ok,M
40	PB165723BL	PB165723BL	BN035750.D	20 Dec 2024 20:09		RC/JU	Ok,M
41	P5317-05	TT163S1-20241216	BN035751.D	20 Dec 2024 20:45		RC/JU	Ok,M
42	P5261-09DL	RE134D3-20241210DL	BN035752.D	20 Dec 2024 21:21		RC/JU	Ok,M
43	P5261-15DL	RE125D2-20241210DL	BN035753.D	20 Dec 2024 21:57		RC/JU	Ok,M
44	P5261-04DL	RE103D1-20241209DL	BN035754.D	20 Dec 2024 22:33		RC/JU	Ok,M
45	P5317-09	TT158S1-20241217	BN035755.D	20 Dec 2024 23:09		RC/JU	Ok,M
46	P5317-10	TT158I1-20241217	BN035756.D	20 Dec 2024 23:45		RC/JU	Ok,M
47	P5317-11	DUP-05-20241217	BN035757.D	21 Dec 2024 00:21		RC/JU	Ok,M
48	P5317-12	TT172S1-20241217	BN035758.D	21 Dec 2024 00:57		RC/JU	Ok,M
49	P5317-08	RW8-MW01D1-202412	BN035759.D	21 Dec 2024 01:34		RC/JU	Ok,M
50	P5317-13	RW9-MW01S-2024121	BN035760.D	21 Dec 2024 02:10		RC/JU	Ok,M
51	P5317-14	RW9-MW01D1-202412	BN035761.D	21 Dec 2024 02:46		RC/JU	Ok,M
52	P5284-02	RW5-SP201-20241212	BN035762.D	21 Dec 2024 03:22		RC/JU	Ok,M
53	P5284-03	RW5-SP303-20241212	BN035763.D	21 Dec 2024 03:58		RC/JU	Ok,M
54	PB165724BS	PB165724BS	BN035764.D	21 Dec 2024 04:34		RC/JU	Ok,M
55	SSTDCCC0.4	SSTDCCC0.4EC	BN035765.D	21 Dec 2024 05:10		RC/JU	Ok,M
56	DFTPP	DFTPP	BN035766.D	21 Dec 2024 05:46		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121924

Review By	yogesh	Review On	12/21/2024 1:06:44 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:00 PM		
SubDirectory	BN121924	HP Acquire Method	BNA_N	HP Processing Method	bn112724

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657
CCC	SP6661
Internal Standard/PEM	SP6527,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

57	SSTDCCC0.4	SSTDCCC0.4	BN035767.D	21 Dec 2024 06:25		RC/JU	Ok,M
58	PB165596BL	PB165596BL	BN035768.D	21 Dec 2024 07:01	END CCC Missing	RC/JU	Not Ok
59	P5281-04	TT101D2-20241212	BN035769.D	21 Dec 2024 07:37	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
60	P5317-15	RW9-MW01D2-202412	BN035770.D	21 Dec 2024 08:13	END CCC Missing	RC/JU	Not Ok
61	P5317-16	RW9-MW01D3-202412	BN035771.D	21 Dec 2024 08:49	END CCC Missing	RC/JU	Not Ok
62	P5317-17	DUP-06-20241217	BN035772.D	21 Dec 2024 09:25	END CCC Missing	RC/JU	Not Ok
63	P5317-18	RE132D5-20241217	BN035773.D	21 Dec 2024 10:01	END CCC Missing, Need 2X Dilution	RC/JU	Not Ok
64	P5317-19MS	RE132D5-20241217MS	BN035774.D	21 Dec 2024 10:37	Internal Standard Fail, END CCC Missing	RC/JU	Not Ok

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

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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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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	12/30/2024 12:23:04 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,M
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	12/30/2024 12:23:04 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

PB165724

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 : 12/18/2024

Extraction Start Time : 12:50

Extraction End Date : 12/18/2024

Extraction End Time : 17:45

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
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
12/18/24	RP (Ext. Lab)	Rc/SVOC
17:50	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165724

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

Concentration Date: 12/18/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165724BL	SBLK724	SVOC-SIMGroup1	1000	6	Rubina	rajesh	1			9
PB165724BS	SLCS724	SVOC-SIMGroup1	1000	6	Rubina	rajesh	1			SEP-01
PB165724BSD	SLCSD724	SVOC-SIMGroup1	1000	6	Rubina	rajesh	1			2
P5314-02	BP-VPB-190A-GW-678-680	SVOC-SIMGroup1	800	6	Rubina	rajesh	1	C		3
P5314-04	VPB190A-HYD-20241217	SVOC-SIMGroup1	940	6	Rubina	rajesh	1	C		4
P5317-21	RE132D6-20241217	SVOC-SIMGroup1	980	6	Rubina	rajesh	1	C		5
P5317-22	RE132D7-20241217	SVOC-SIMGroup1	990	6	Rubina	rajesh	1	C		6
P5317-24	RW8-MW01D2-20241217	SVOC-SIMGroup1	990	6	Rubina	rajesh	1	C		7
P5317-25	RW8-MW01D3-20241217	SVOC-SIMGroup1	990	6	Rubina	rajesh	1	C		8

* **Extracts relinguished on the same date as received.**

12/18/24

(8) [illegible]
(22.5)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5317 **WorkList ID :** 186436 **Department :** Extraction **Date :** 12-18-2024 11:49:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5314-02	BP-VPB-190A-GW-678-680	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/13/2024	8270-Modified
P5314-04	VPB190A-HYD-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L51	12/17/2024	8270-Modified
P5317-21	RE132D6-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-22	RE132D7-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-24	RW8-MW01D2-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified
P5317-25	RW8-MW01D3-20241217	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	L41	12/17/2024	8270-Modified

Date/Time 12/18/24 12:05
Raw Sample Received by: RS (Ext 1037)
Raw Sample Relinquished by: [signature] SM

Date/Time 12/18/24 13:10
Raw Sample Received by: [signature] SM
Raw Sample Relinquished by: RS (Ext 1037)

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Prep Standard - Chemical Standard Summary

Order ID : P5314

Test : SVOC-SIMGroup1

Prepbatch ID : PB165724,

Sequence ID/Qc Batch ID: BN121924,BN122324,BN122624,

Standard ID :
EP2559,EP2565,EP2571,SP6527,SP6573,SP6616,SP6629,SP6656,SP6657,SP6658,SP6659,SP6660,SP6661,SP6662,SP6663,SP6666,SP6682,SP6683,SP6684,

Chemical ID :
1ul/100ul sample,E3551,E3657,E3759,E3768,E3788,E3791,E3817,E3818,E3828,E3845,M5173,S10103,S10247,S11011,S11074,S11097,S11494,S11792,S11831,S12029,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
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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

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

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SVOC STANDARD PREPARATION LOG

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)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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

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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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

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

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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	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

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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	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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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	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

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

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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	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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

5580 Skylane Blvd
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Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

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

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

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.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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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 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

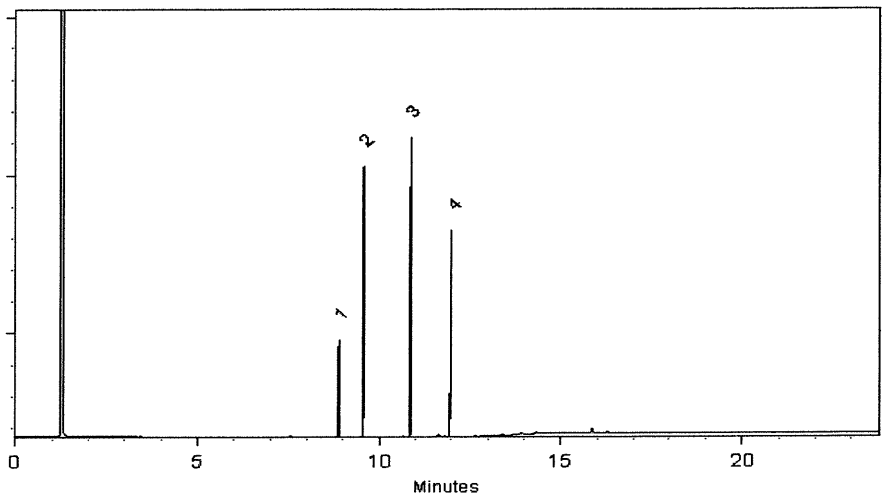
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

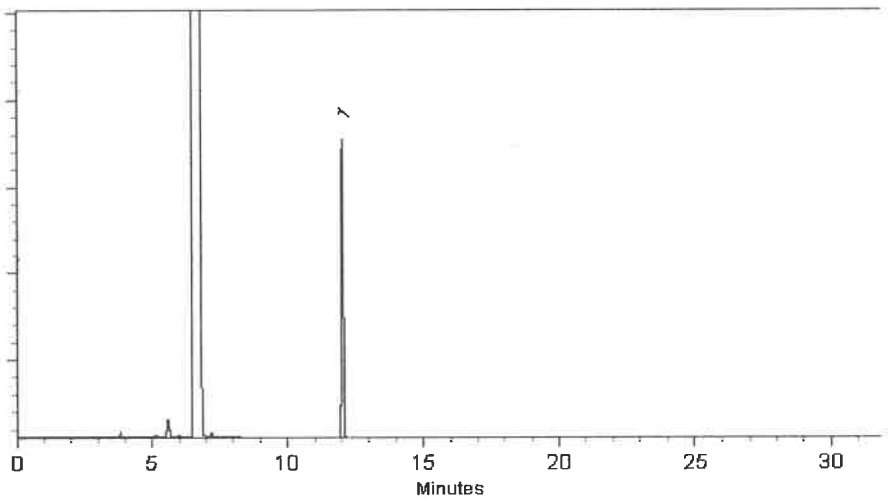
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 01/13/23 by CG S11011 to S11015

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
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: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 10/9/24

E 3818

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3845

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

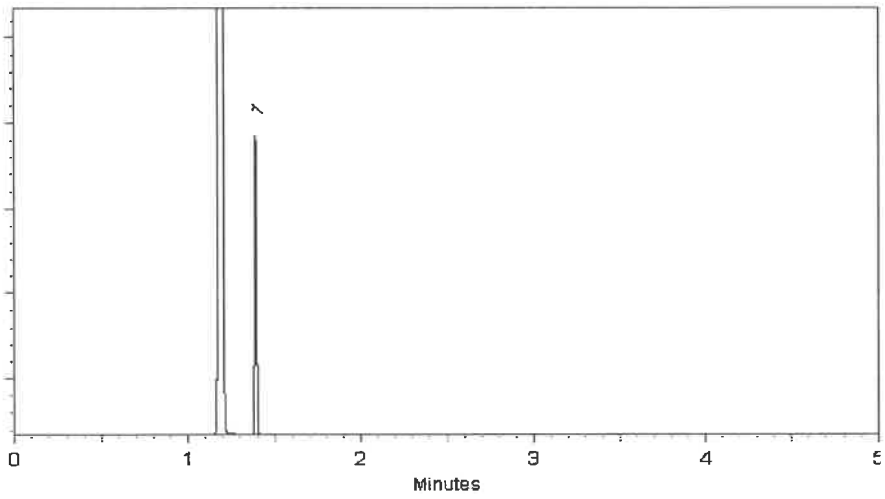
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

S11828 ↓ S11832 RC/ 11/30/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

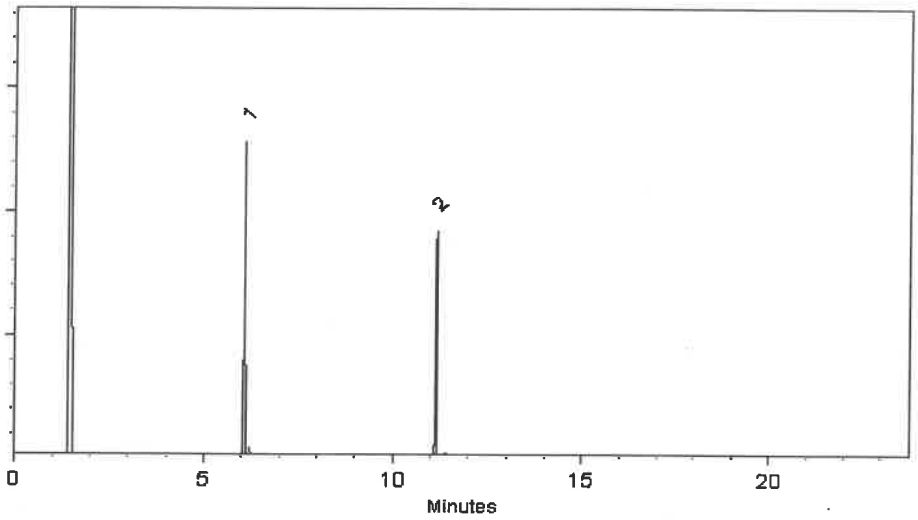
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

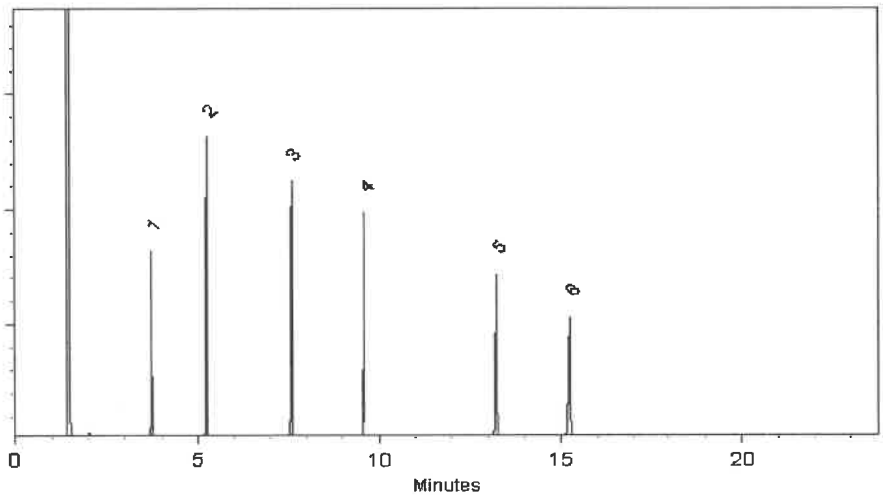
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

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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by TUV USA to ISO 9001:2015

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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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

CPI INTERNATIONAL

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by TUV USA to ISO 9001:2015

Date Received:_____

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Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

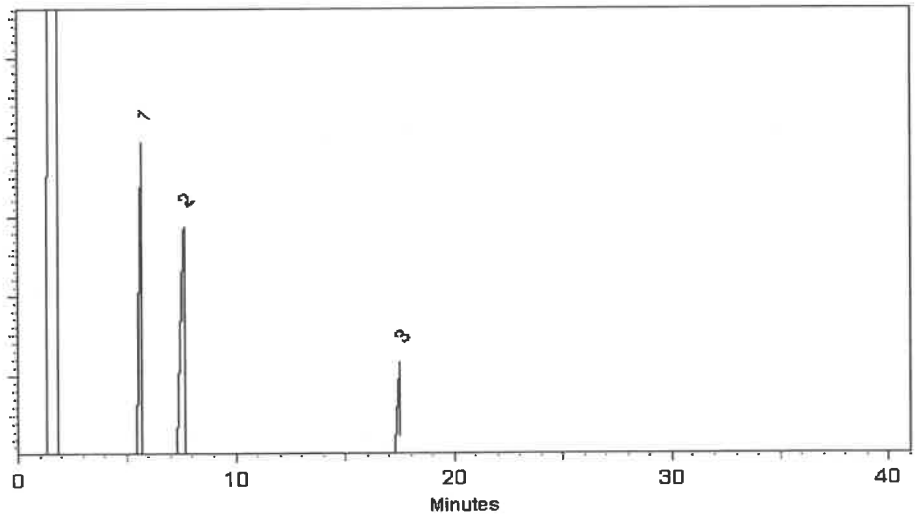
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

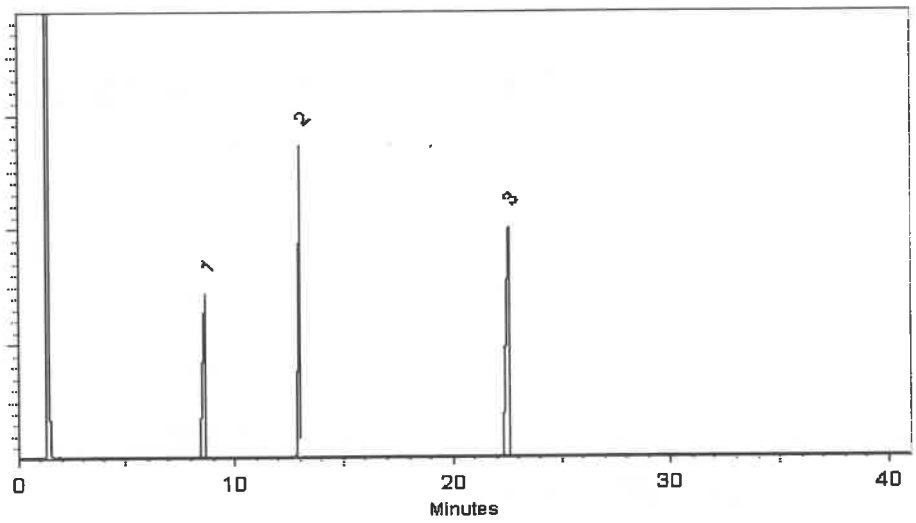
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

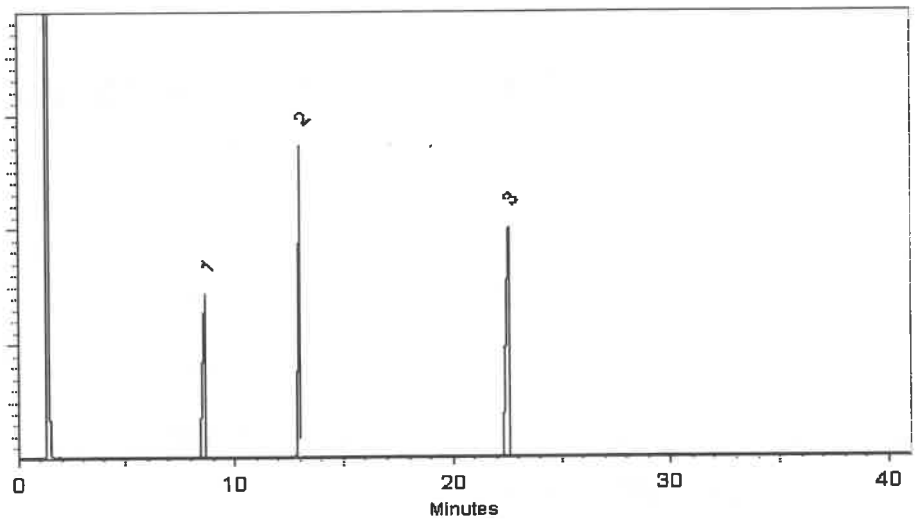
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

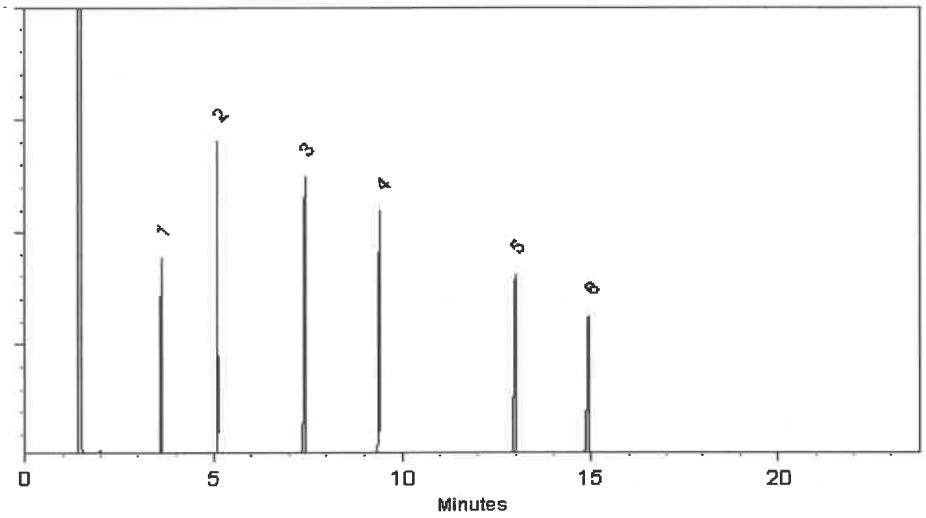
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

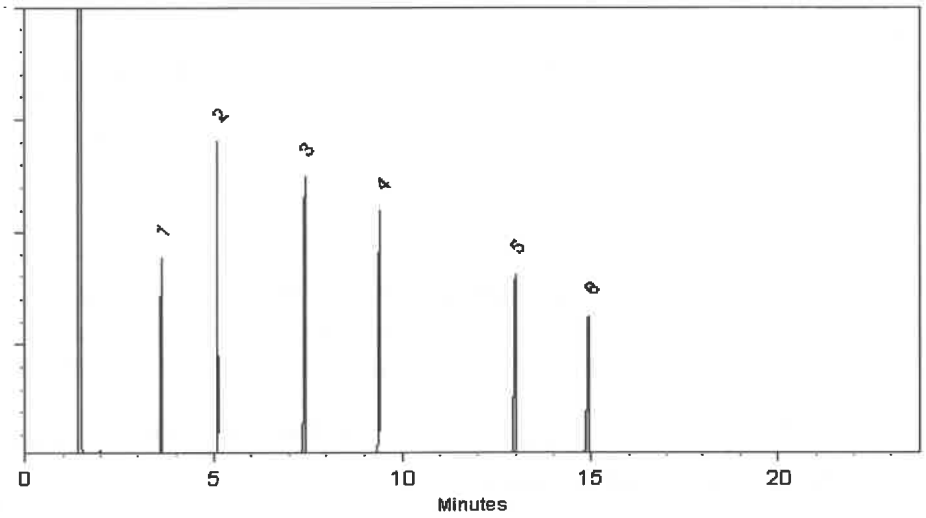
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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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:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- 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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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P5314|15

COC Number:

CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-189
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

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

- ☐ RESULTS 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)	1,4 Dioxane (522 PREC)						

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A		F							<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
1.	BP-VPB-190A-TB-20241213	QA		X	12/13/24	8:00	2	2									Trip Blank
2.	BP-VPB-190A-GW-678-680	AQ		X	12/13/24	11:00	3	2	1								
3.	BP-VPB-190A-GW-698-700	AQ		X	12/13/24	13:20	3	3									Collected extra vials due to high particulate matter
4.	VPB190A-HYD-20241217	QA		X	12/17/24	10:00	5	2	1	2							Hydrant Sample
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

	DATE/TIME		
1. RELINQUISHED BY SAMPLER	12/17/24 14:00	1. RECEIVED BY	1530 12-17-24
2. RELINQUISHED BY	DATE/TIME	2. RECEIVED BY	
3. RELINQUISHED BY	1830 12-17-24	3. RECEIVED FOR LAB BY	

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1 C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5314 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 12/17/2024 3:43:00 PM
Project Name : CTO WE13
Receive DateTime : 12/17/2024 12:00:00 AM 18:30
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P5314-01	BP-VPB-190A-TB-20241213	Water	12/13/2024	08:00						
					VOCMS Group1		8260-Low	~~10~~ Bus. Days		2 days
P5314-02	BP-VPB-190A-GW-678-680	Water	12/13/2024	11:00						
					VOCMS Group1		8260-Low	~~10~~ Bus. Days		
P5314-03	BP-VPB-190A-GW-698-700	Water	12/13/2024	13:20						
					VOCMS Group1		8260-Low	~~10~~ Bus. Days		
P5314-04	~~VPB190A-HYF-20241217~~ VPB190A-HYD-20241217	Water	12/17/2024	10:00						
					VOCMS Group1		8260-Low	~~10~~ Bus. Days		

Relinguished By : cl
Date / Time : 12-18-24 1045

Received By :
Date / Time : 12-18-24 10:45
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng		0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng		0.00
35) Perylene-d12	23.067	264	13004	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	573	0.101	ng		0.00
5) Phenol-d6	6.513	99	686	0.096	ng		0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng		0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng		0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng		0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	227	0.112	ng	#	87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	#	90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng		98
9) Naphthalene	10.105	128	1527	0.102	ng	#	91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	#	97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng		96
16) Acenaphthylene	13.679	152	1675	0.096	ng		100
17) Acenaphthene	14.031	154	1143	0.100	ng		99
18) Fluorene	15.026	166	1620	0.096	ng		98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	#	29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	#	94
22) Hexachlorobenzene	16.041	284	720	0.100	ng		97
23) Atrazine	16.227	200	421	0.068	ng	#	86
24) Pentachlorophenol	16.401	266	381	0.114	ng		90
25) Phenanthrene	16.773	178	2963	0.104	ng		99
26) Anthracene	16.860	178	2617	0.100	ng		98
28) Fluoranthene	18.817	202	4173	0.106	ng		99
30) Pyrene	19.184	202	4461	0.119	ng		100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng		99
33) Chrysene	21.010	228	4123	0.106	ng		97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng		99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng		97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	#	82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	#	80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	#	69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	#	86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	#	93

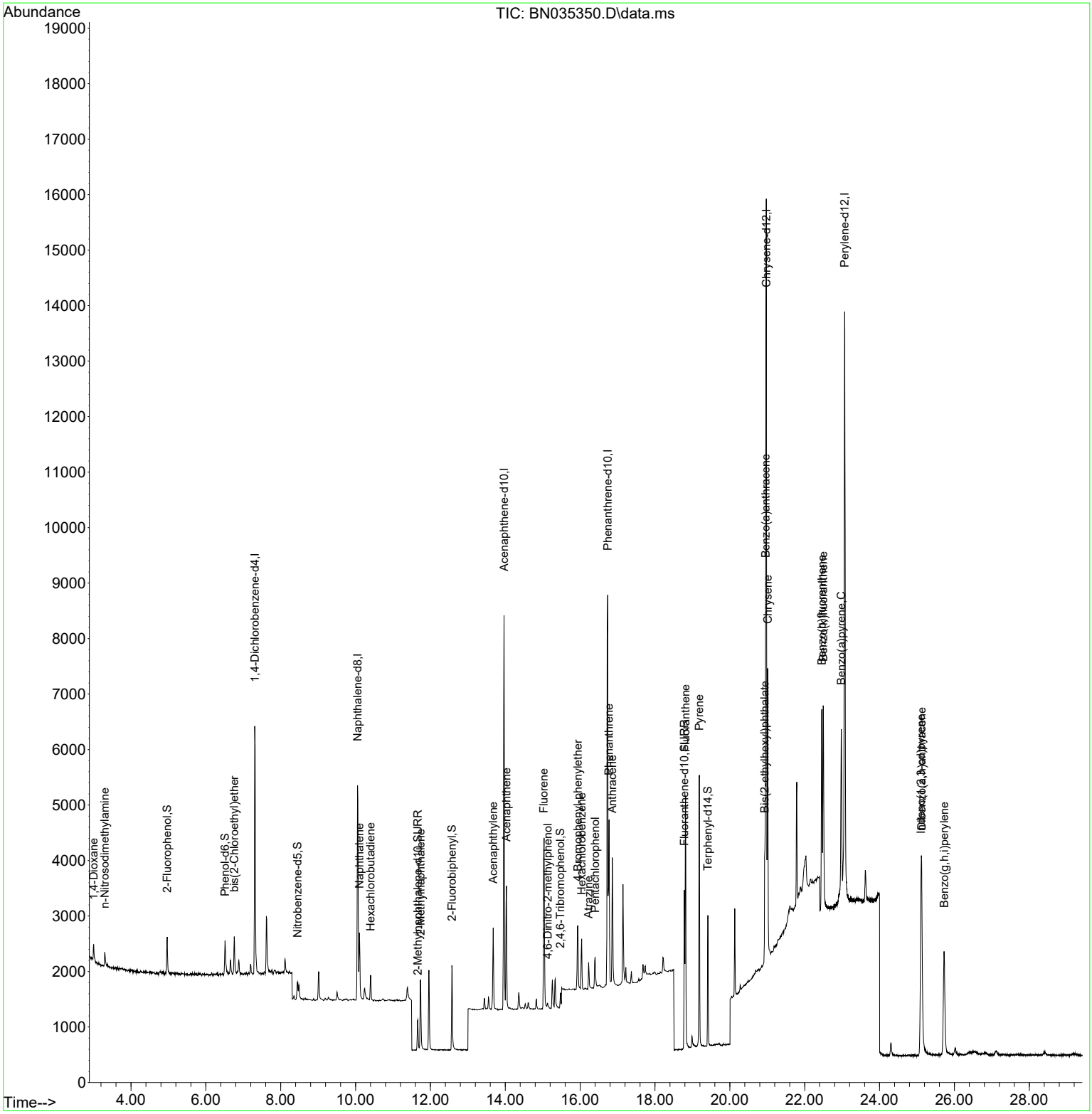
(#) = qualifier out of range (m) = manual integration (+) = signals summed

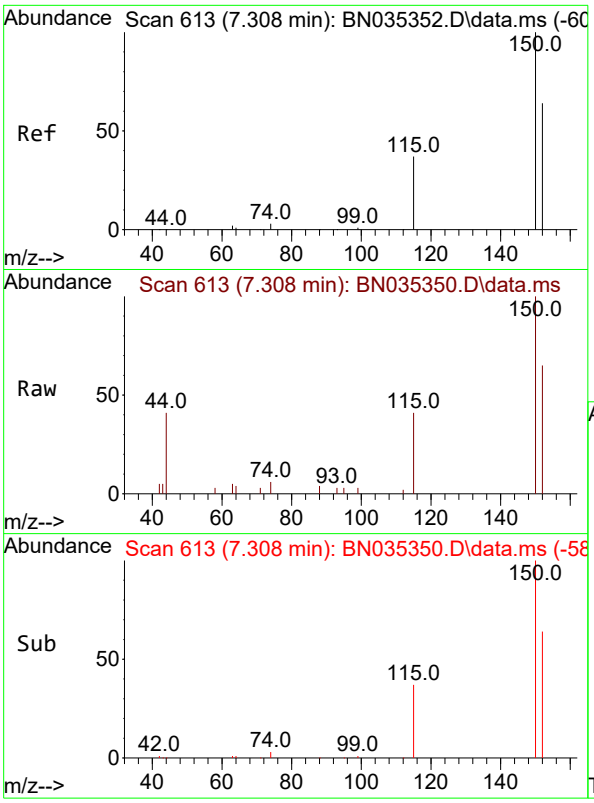
Quantitation Report (Not Reviewed)

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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



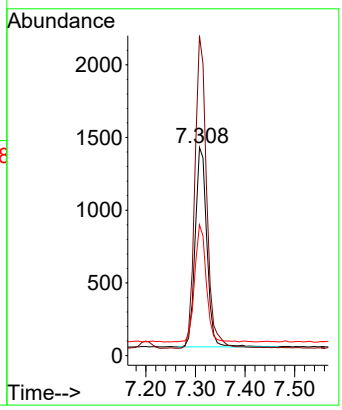


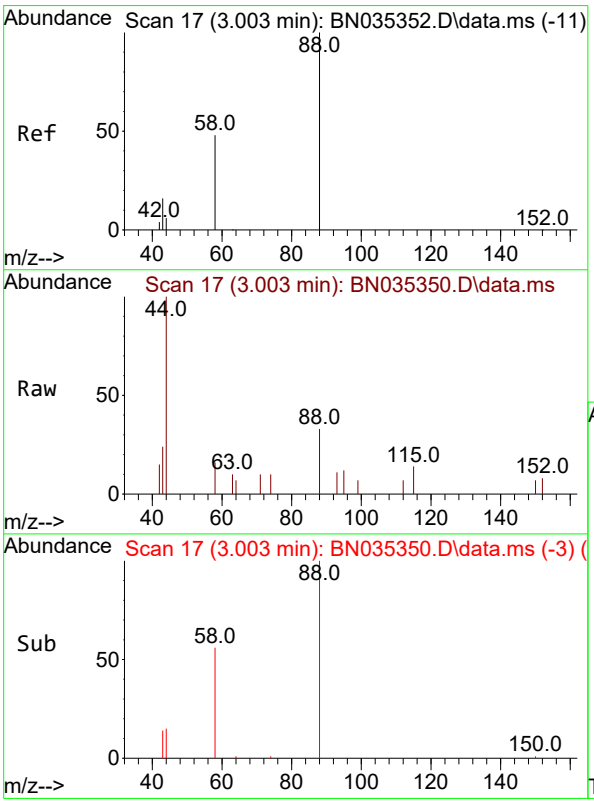
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2237

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

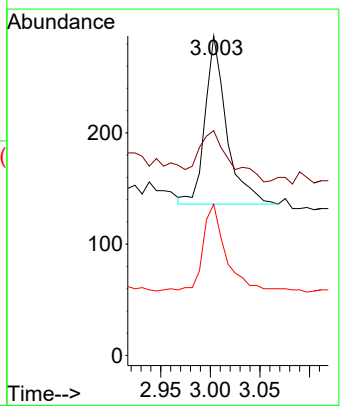


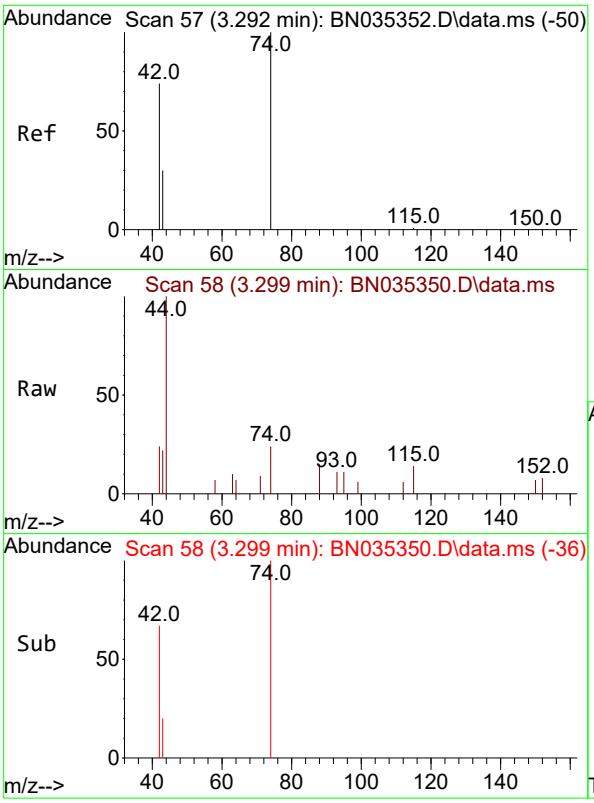


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 88 Resp: 227

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



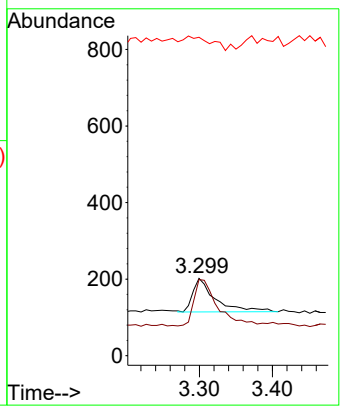


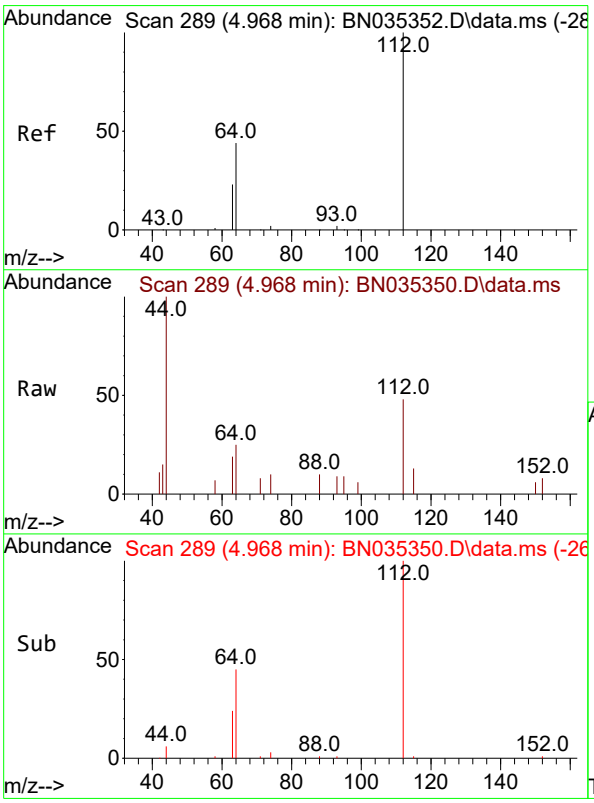
#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 187

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

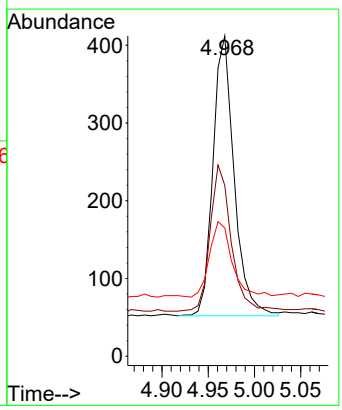


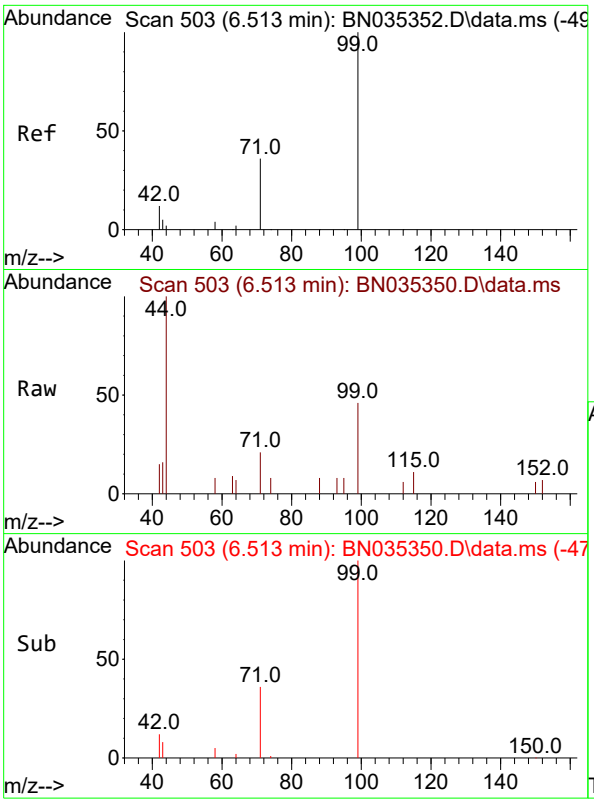


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:112 Resp: 573

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



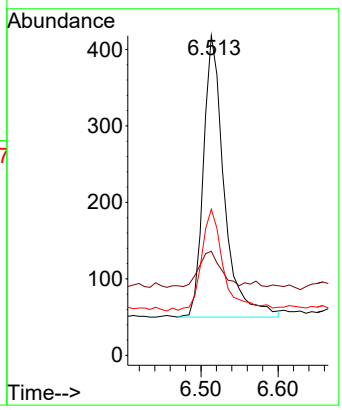


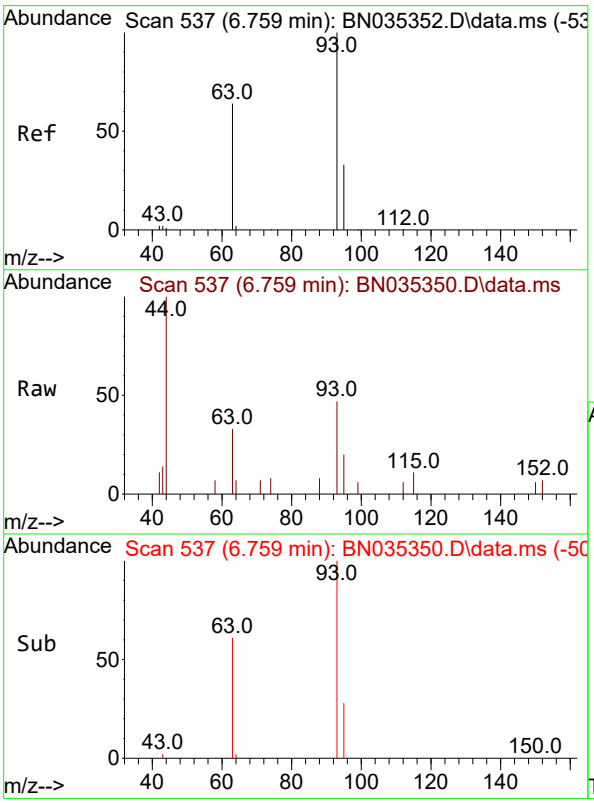
#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 686

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

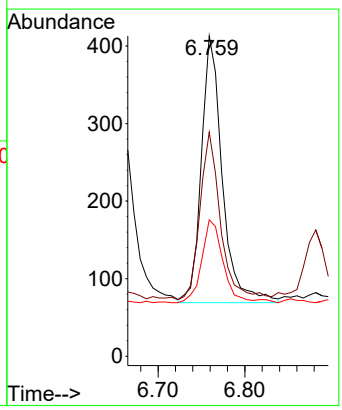


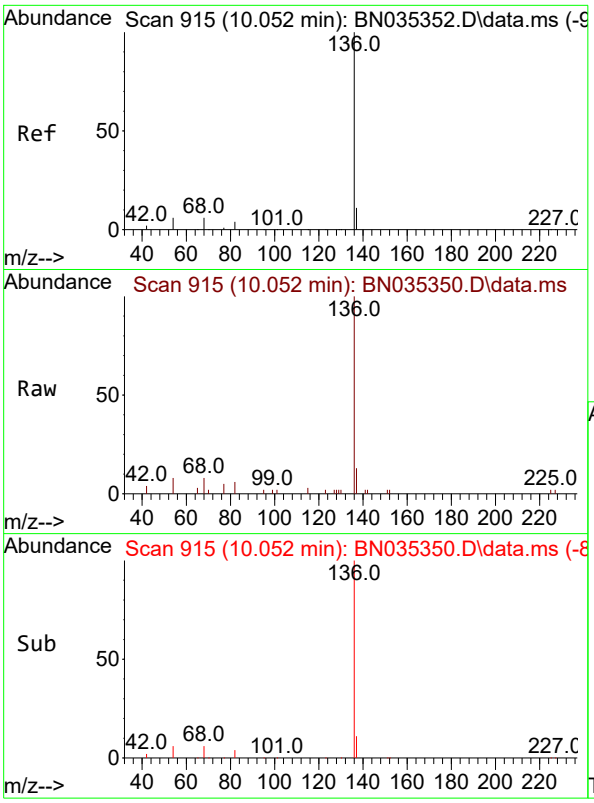


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 93 Resp: 579

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



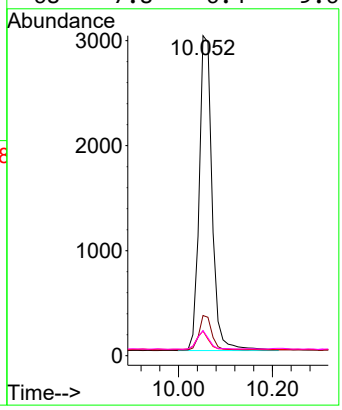


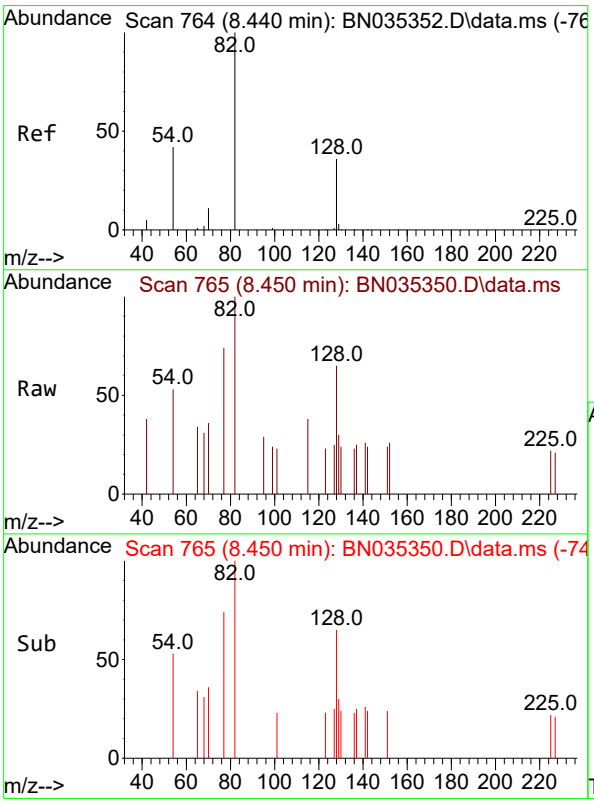
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 5753

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

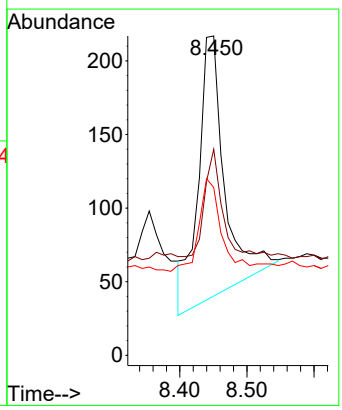


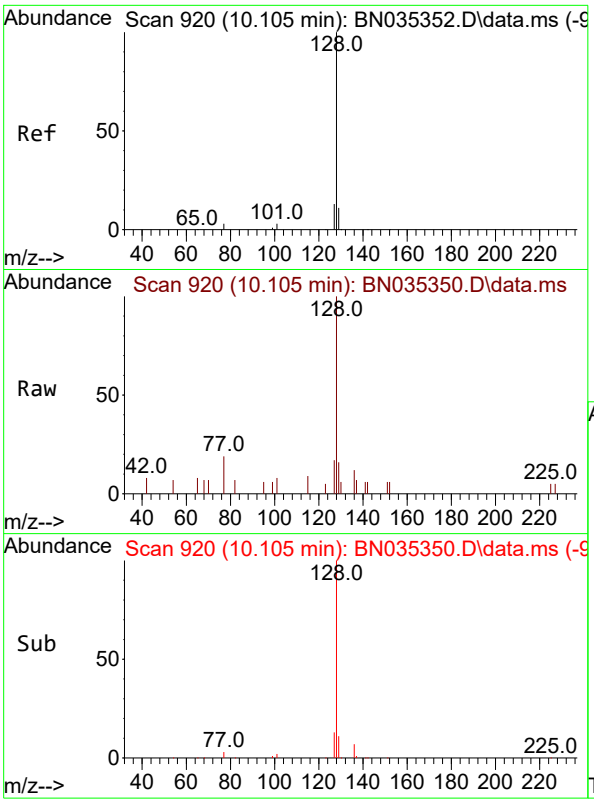


#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

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



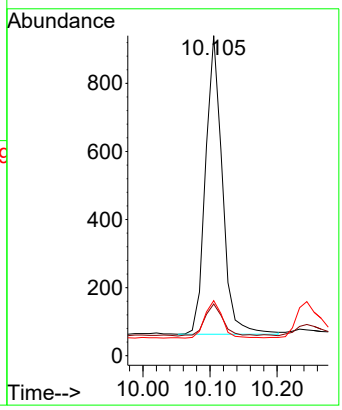


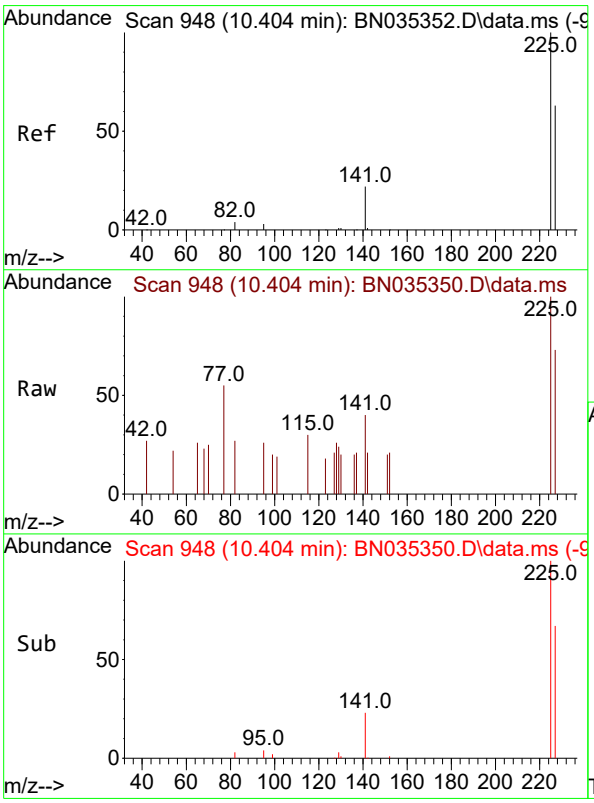
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1527

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

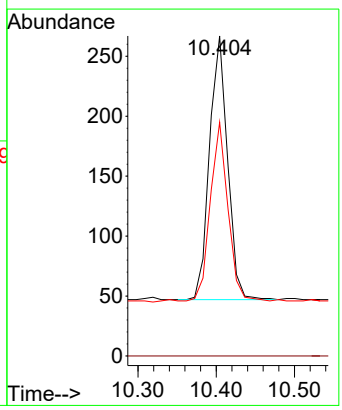


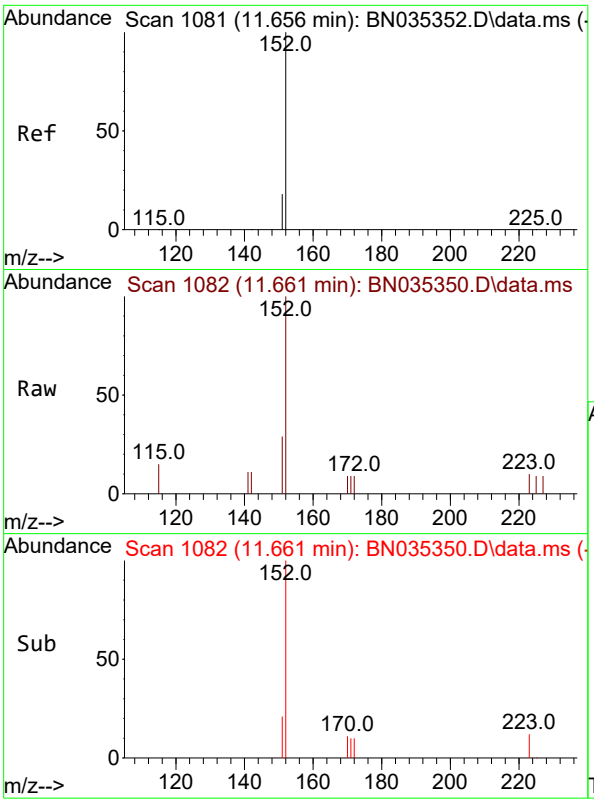


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:225 Resp: 352

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



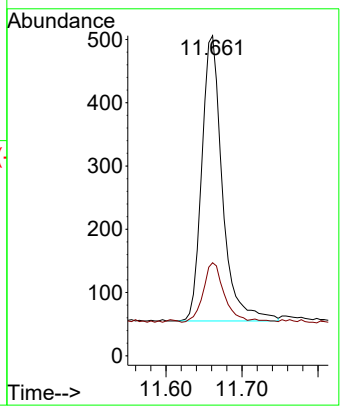


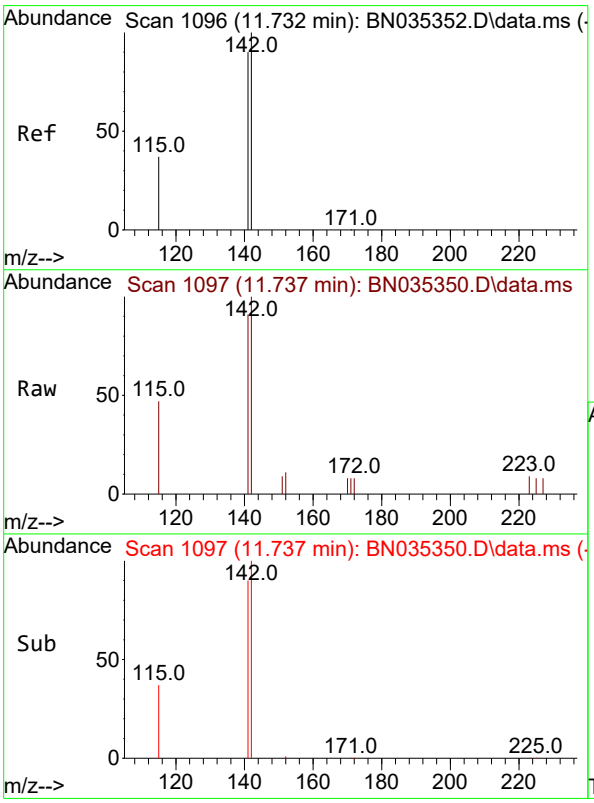
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 850

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.6	25.0

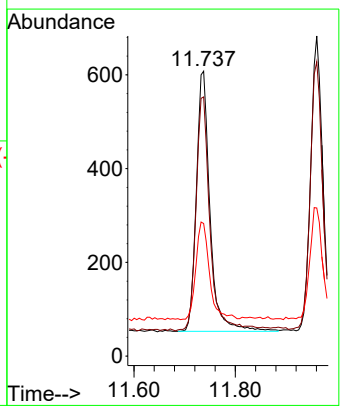


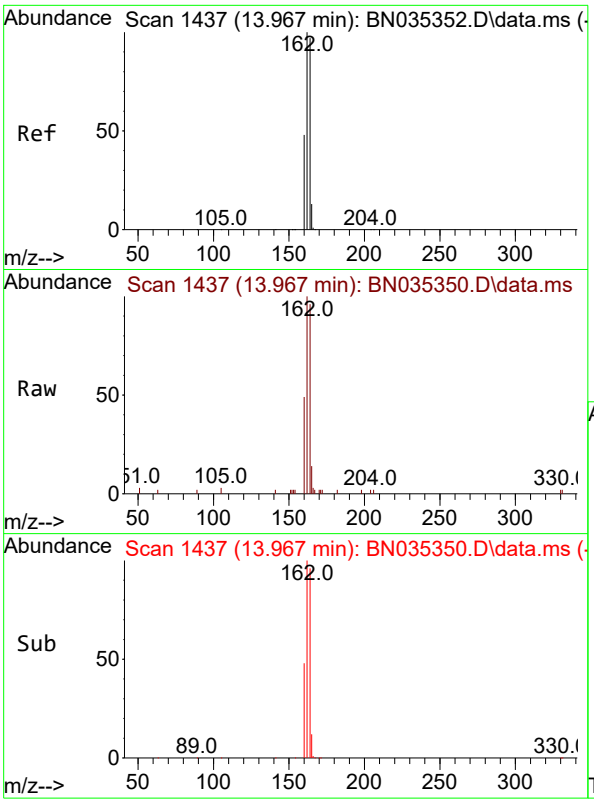


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042

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



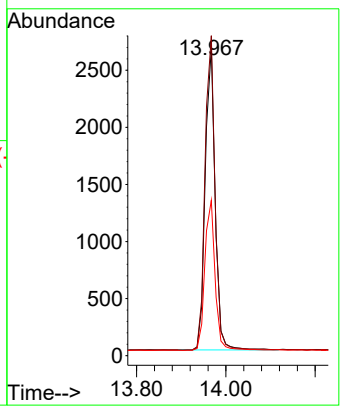


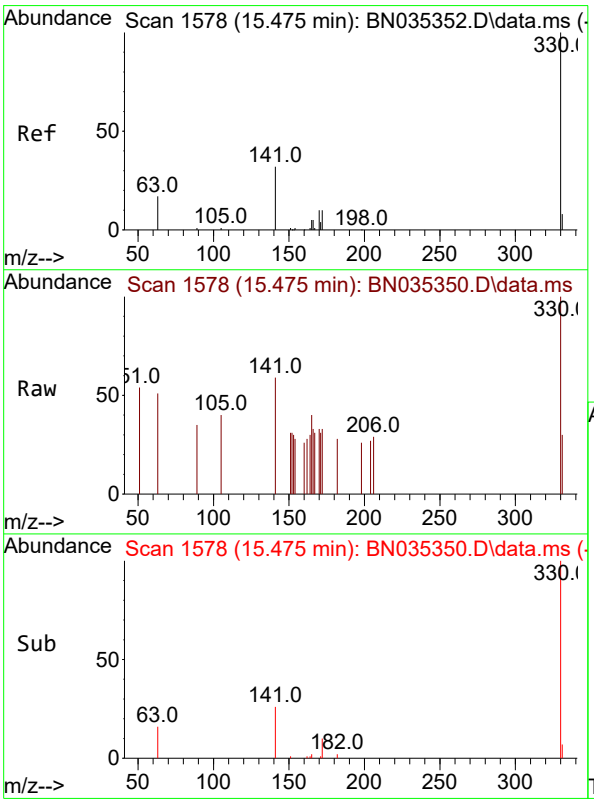
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 4077

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

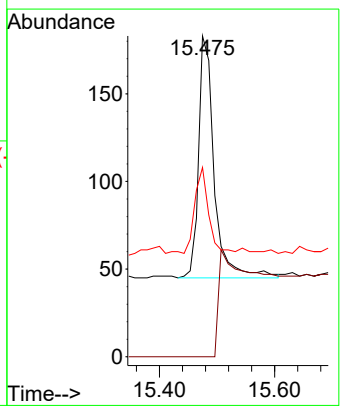


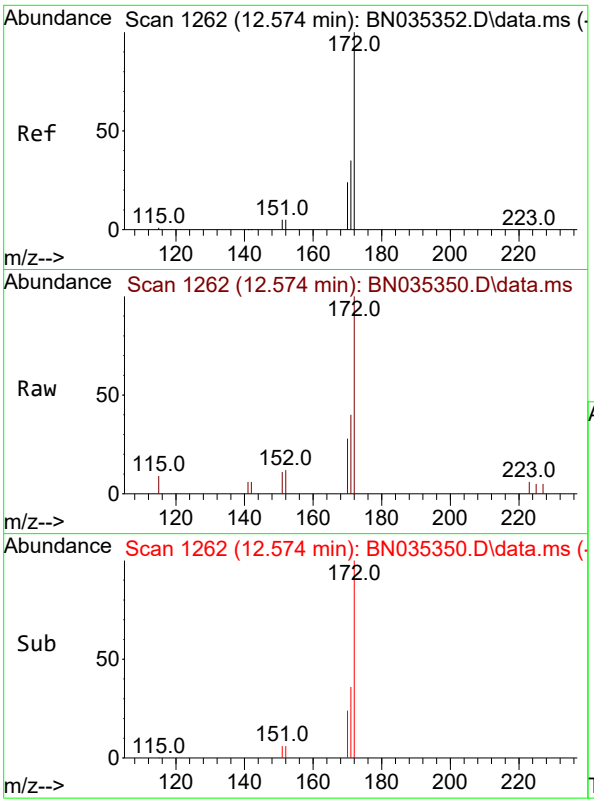


#14
2,4,6-Tribromophenol
Concen: 0.095 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:330 Resp: 278

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



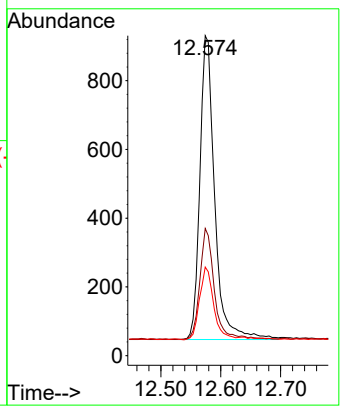


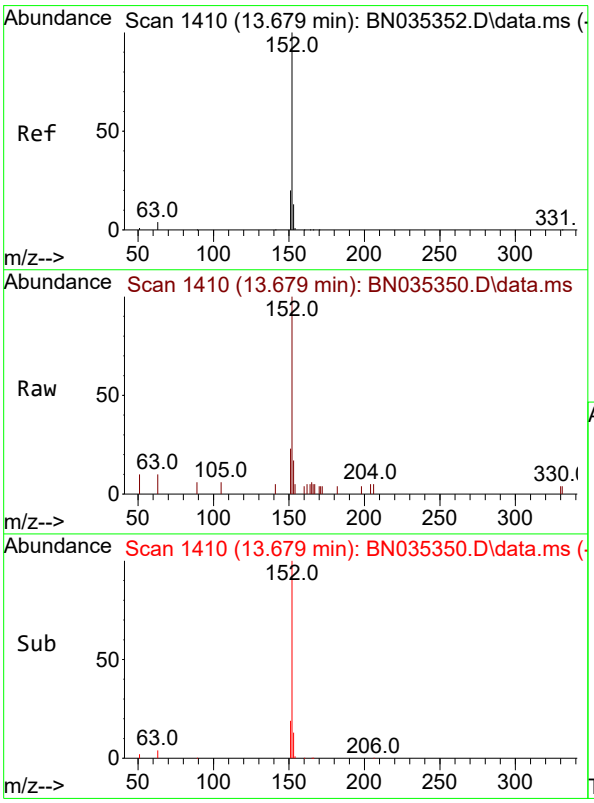
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 1518

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

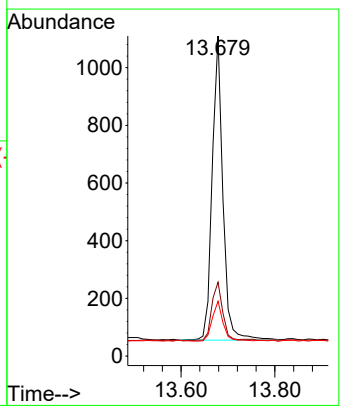


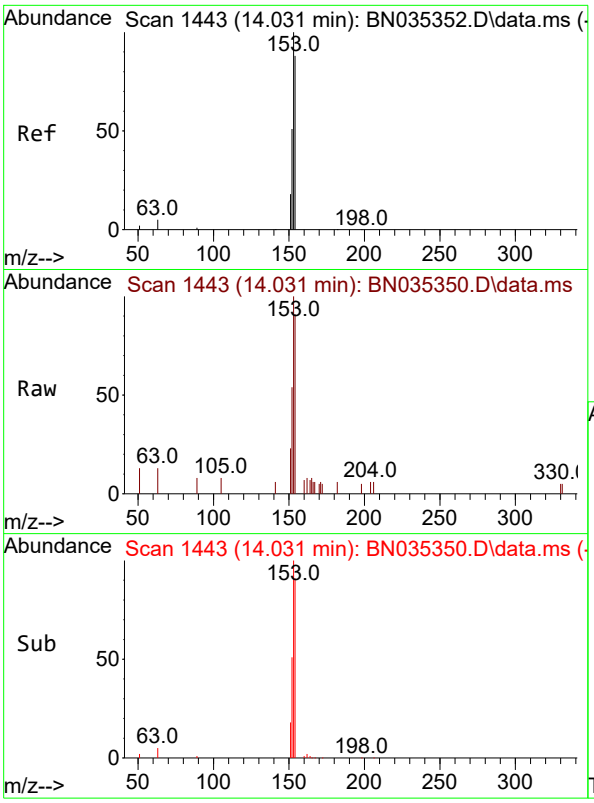


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:152 Resp: 1675

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



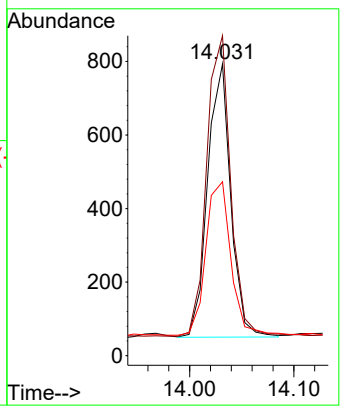


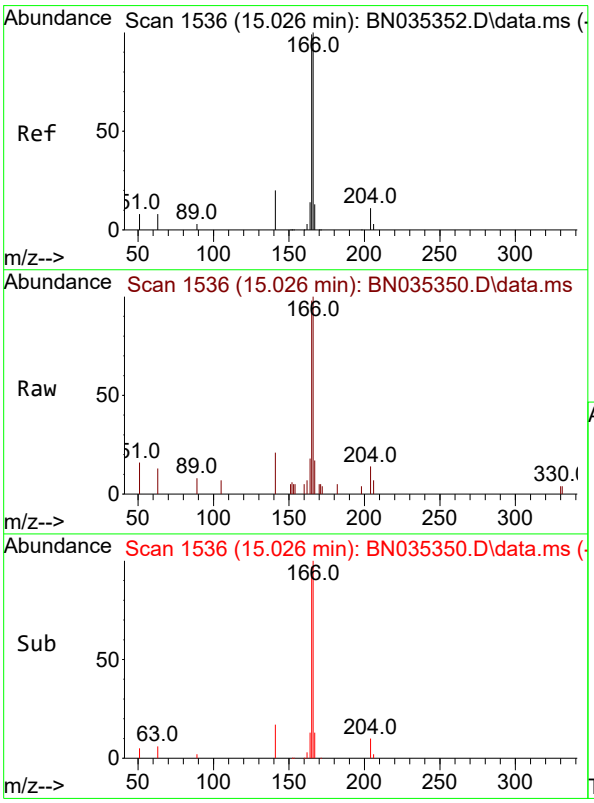
#17
Acenaphthene
Concen: 0.100 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 1143

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

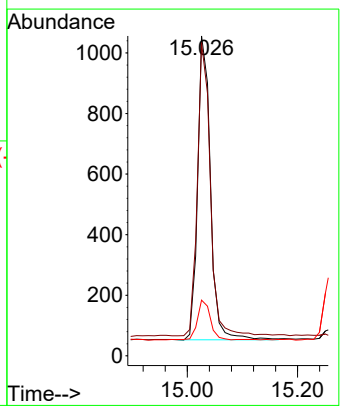


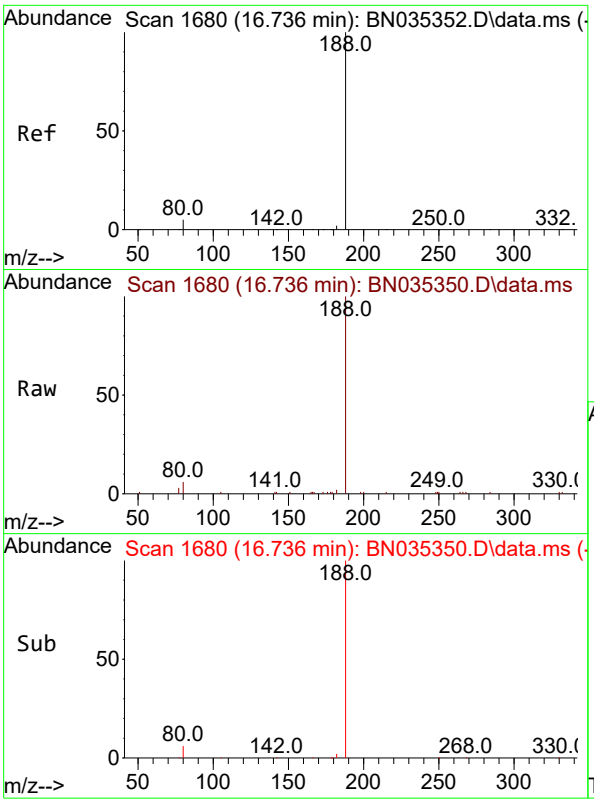


#18
Fluorene
Concen: 0.096 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:166 Resp: 1620

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



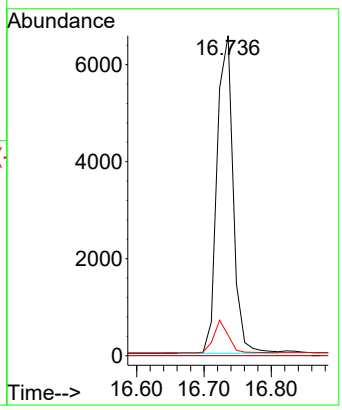


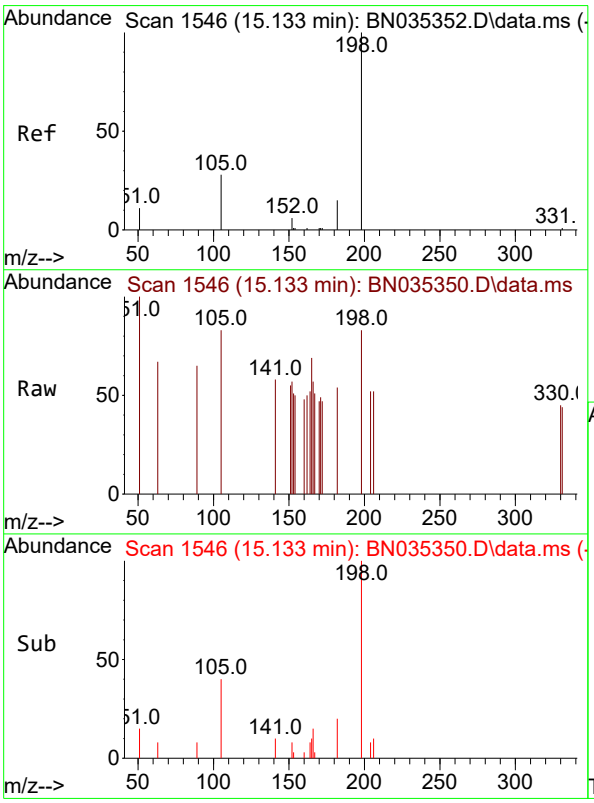
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 10855

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

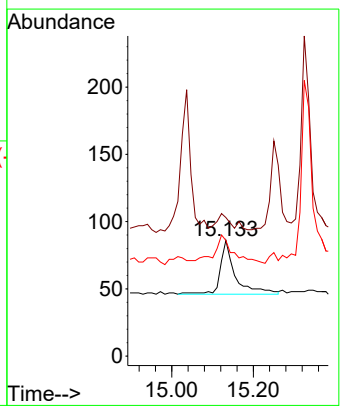


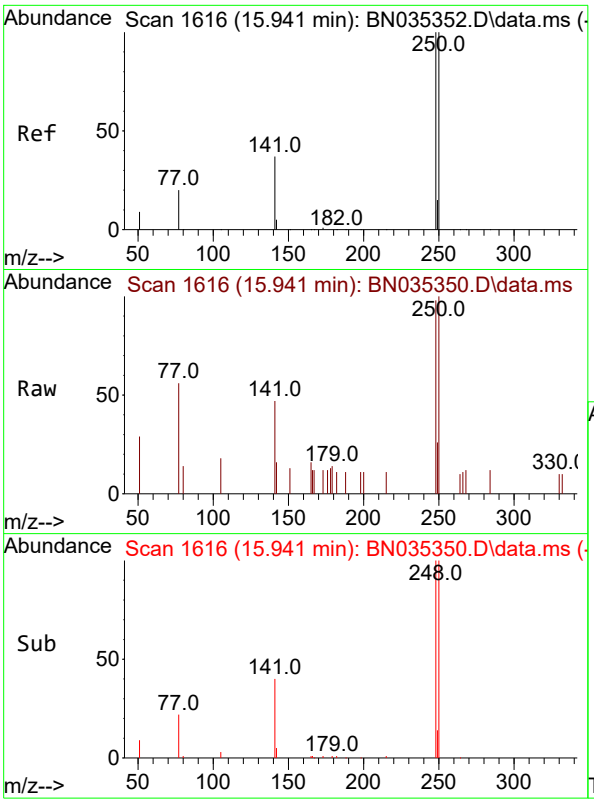


#20
4,6-Dinitro-2-methylphenol
Concen: 0.046 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:198 Resp: 103

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



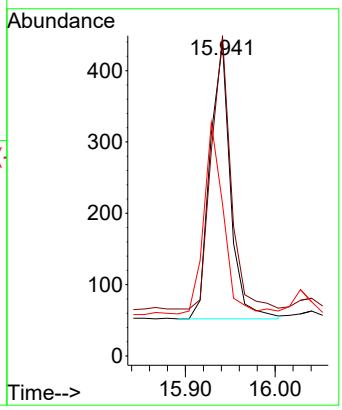


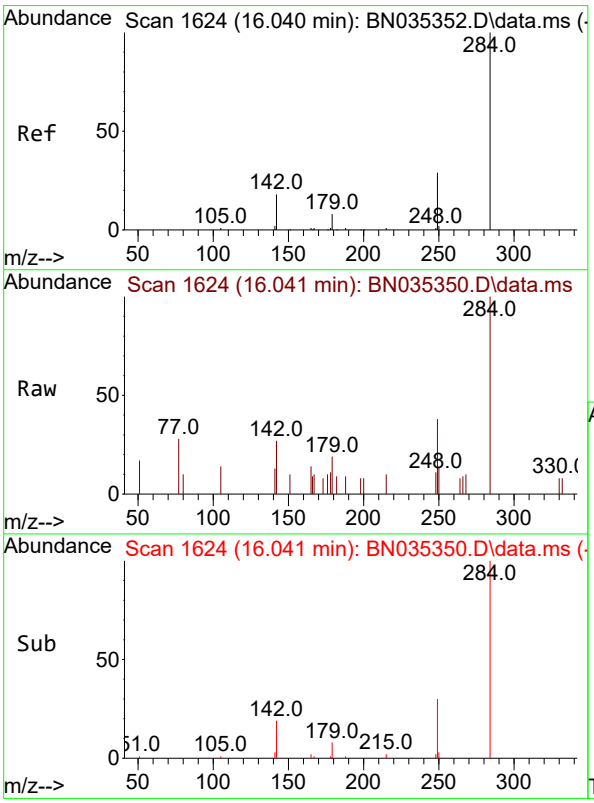
#21
4-Bromophenyl-phenylether
Concen: 0.088 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:248 Resp: 612

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

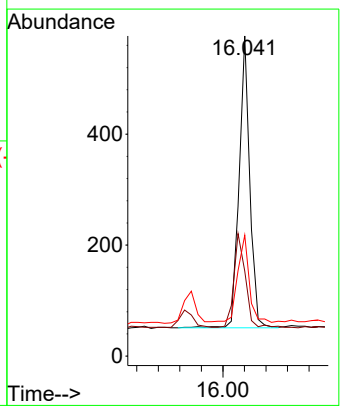


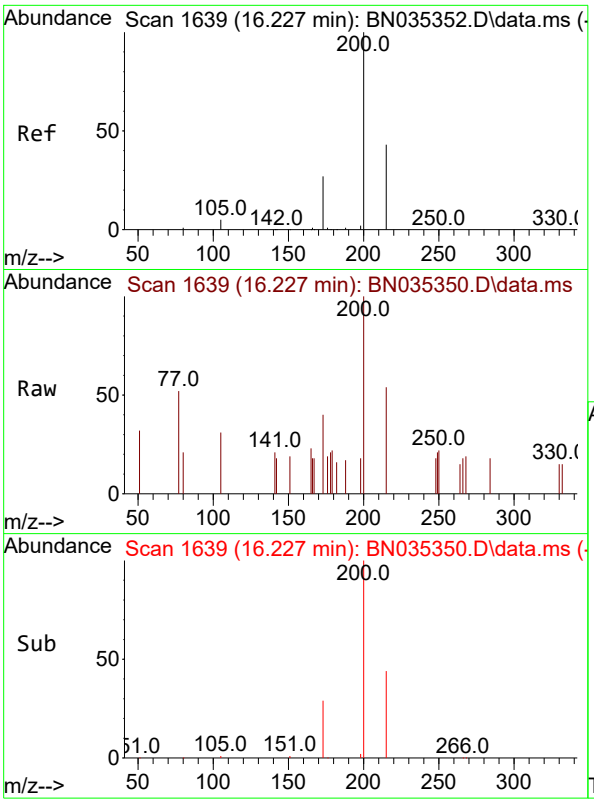


#22
Hexachlorobenzene
Concen: 0.100 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:284 Resp: 720

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



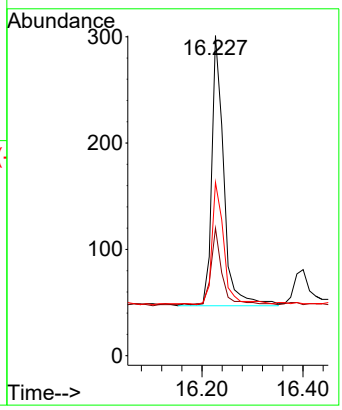


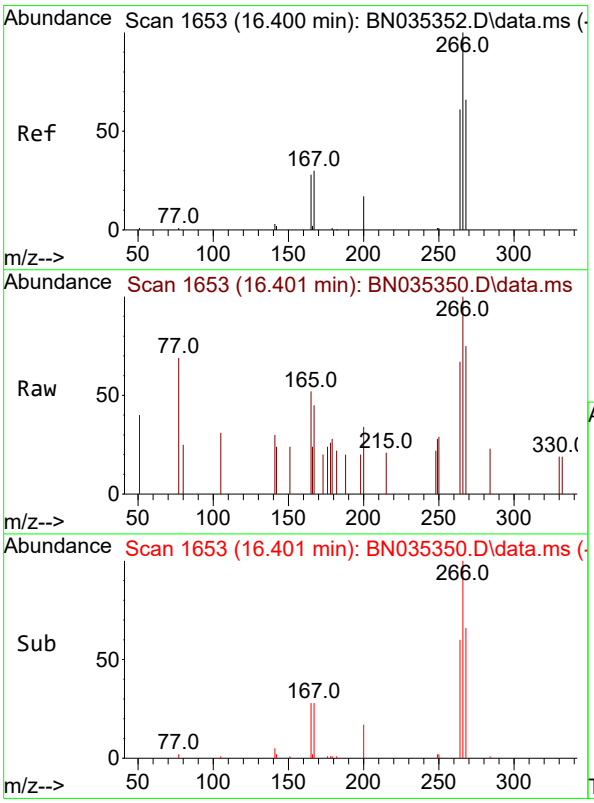
#23
Atrazine
Concen: 0.068 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:200 Resp: 421

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

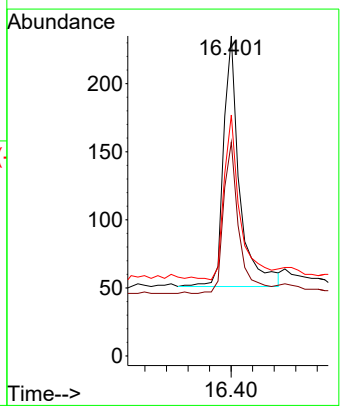


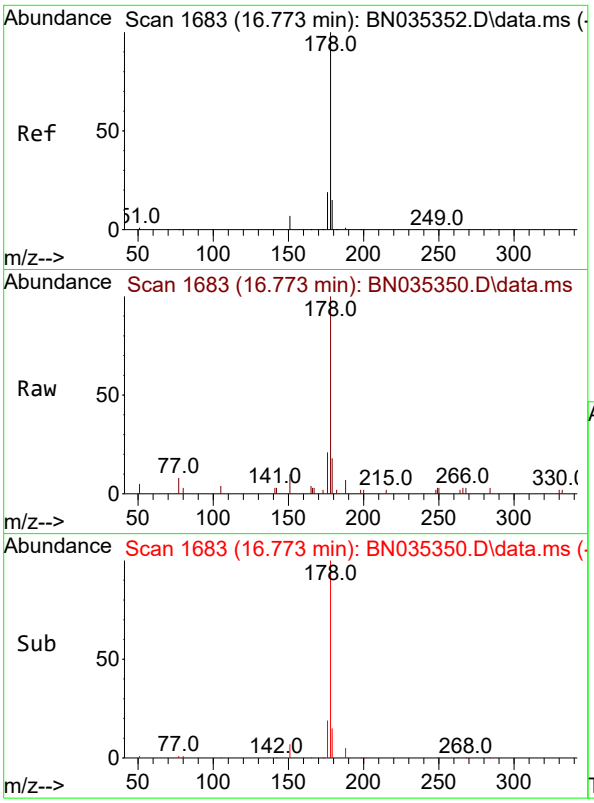


#24
Pentachlorophenol
Concen: 0.114 ng
RT: 16.401 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:266 Resp: 381

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



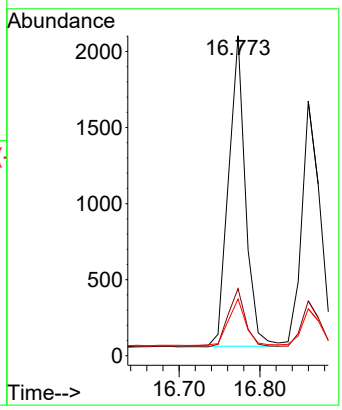


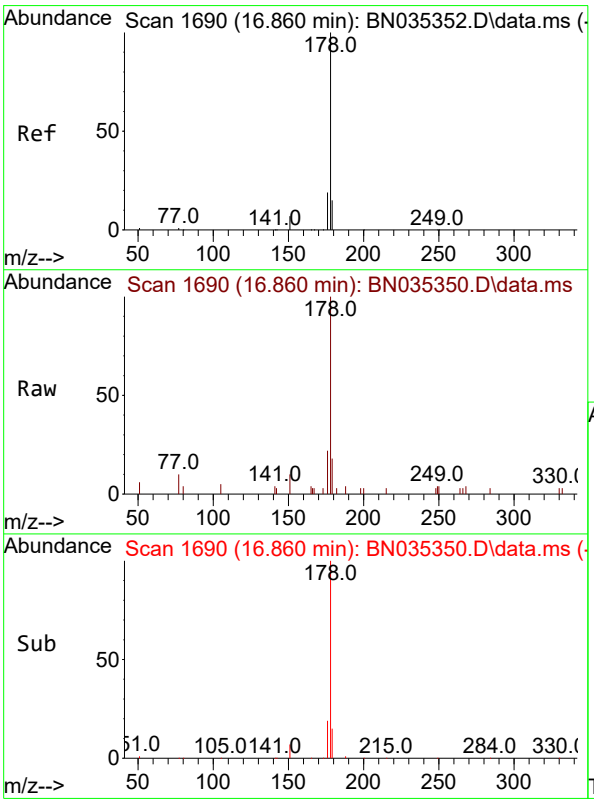
#25
Phenanthrene
Concen: 0.104 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2963

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

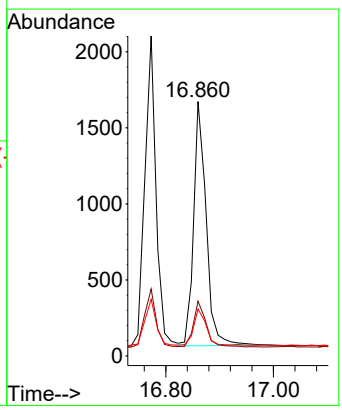


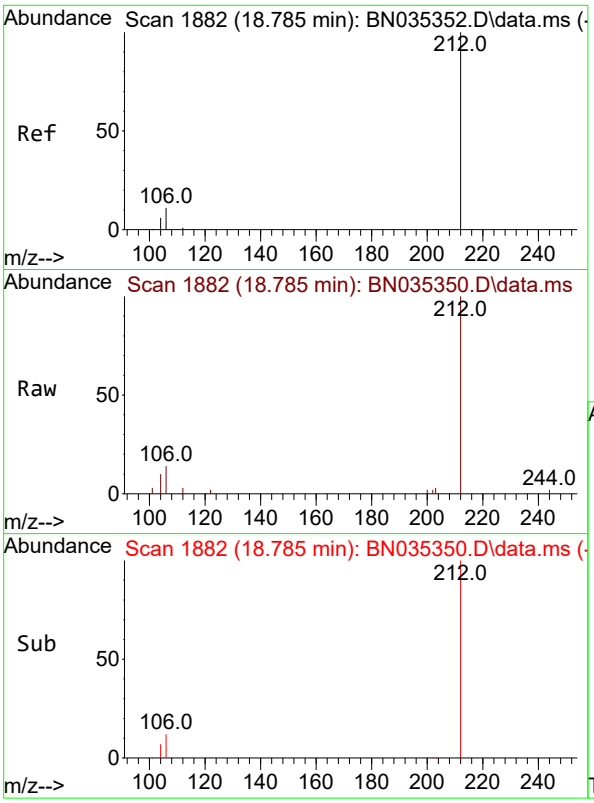


#26
Anthracene
Concen: 0.100 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:178 Resp: 2617

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



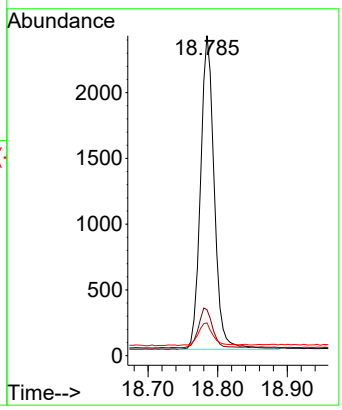


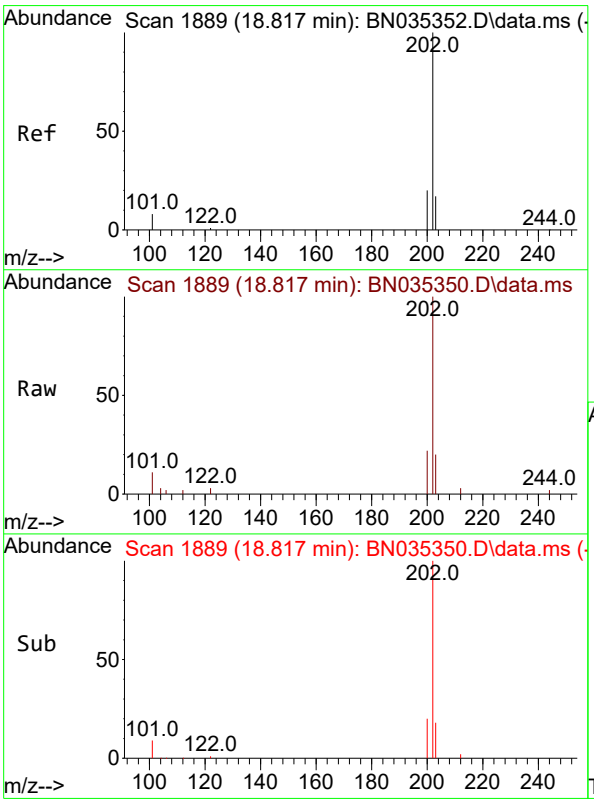
#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3265

Ion	Ratio	Lower	Upper
212	100		
106	12.8	9.2	13.8
104	7.6	5.3	7.9

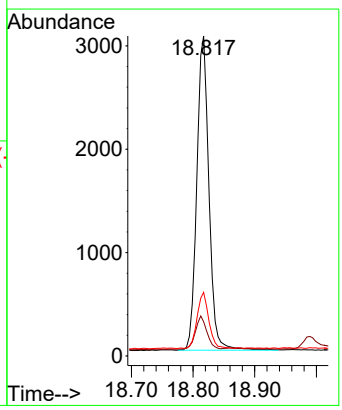


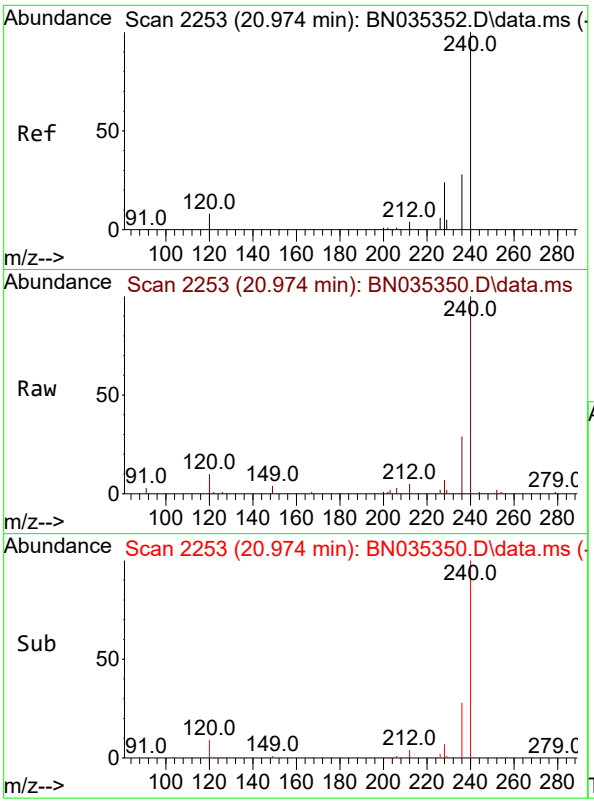


#28
Fluoranthene
Concen: 0.106 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4173

Ion	Ratio	Lower	Upper
202	100		
101	10.2	7.4	11.0
203	17.3	13.7	20.5



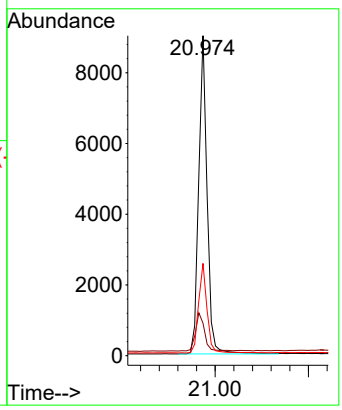


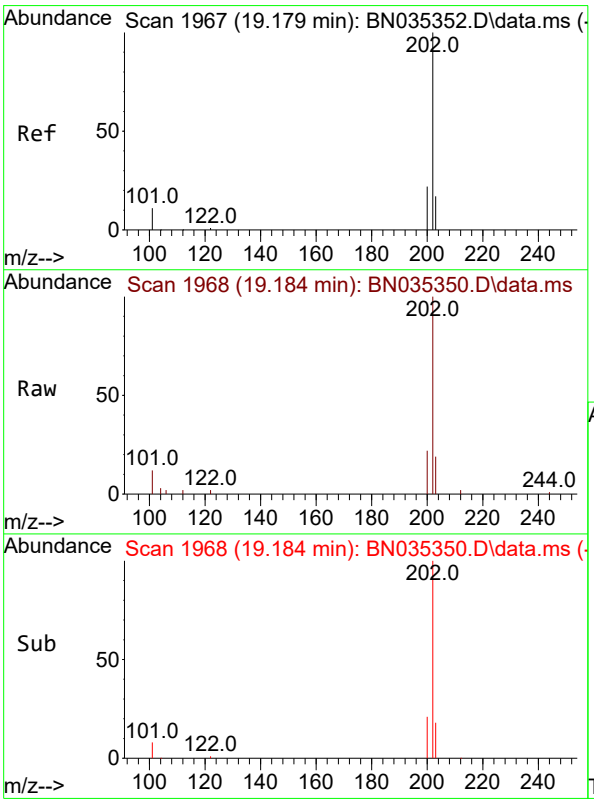
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11269

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.9	11.9
236	28.8	22.9	34.3

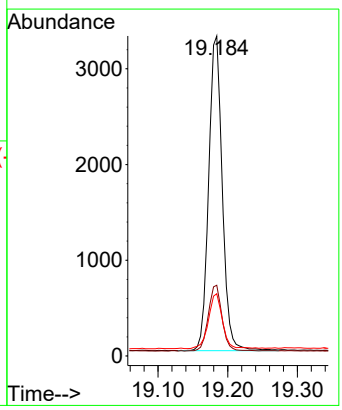


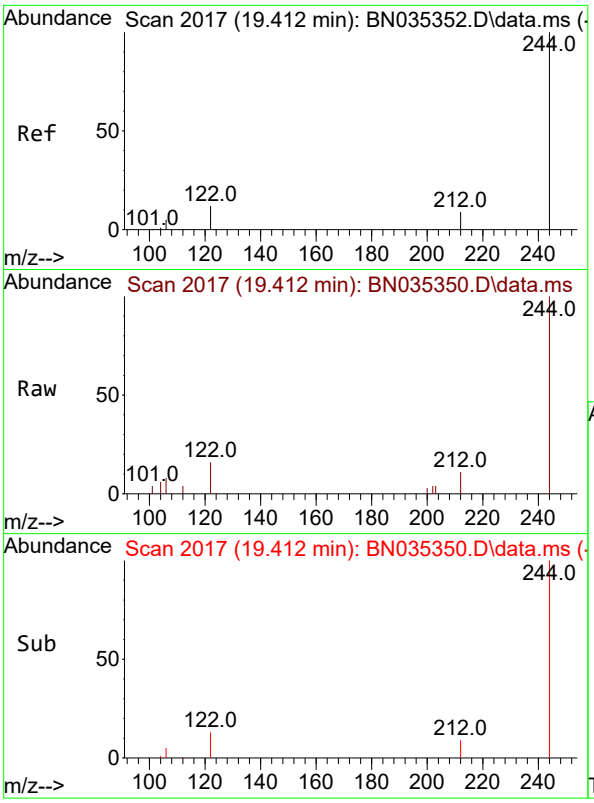


#30
Pyrene
Concen: 0.119 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:202 Resp: 4461

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



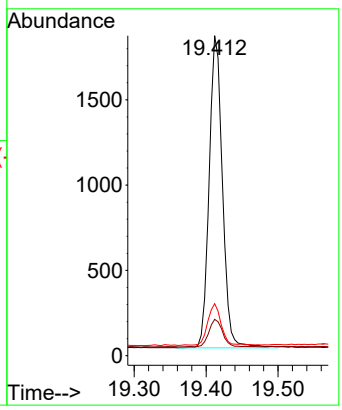


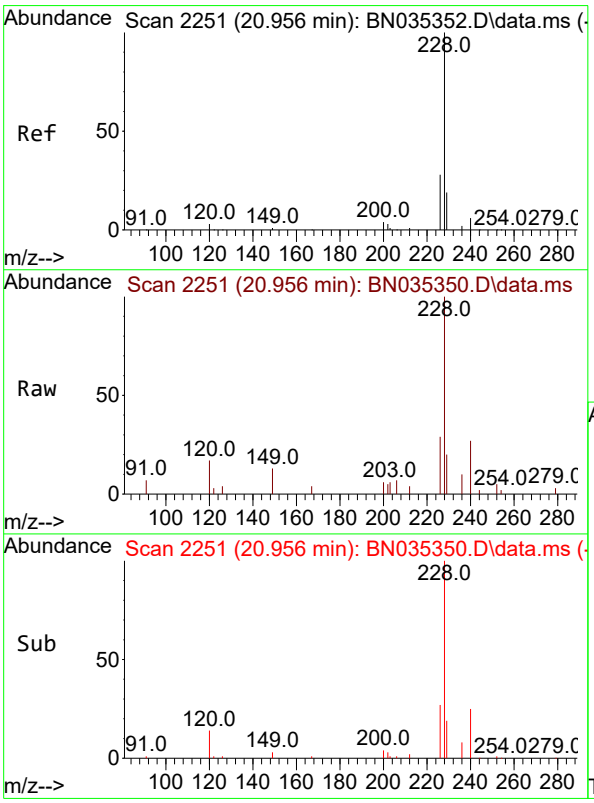
#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2344

Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.1	12.1
122	16.3	10.3	15.5#

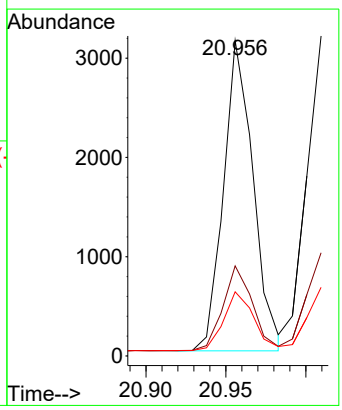


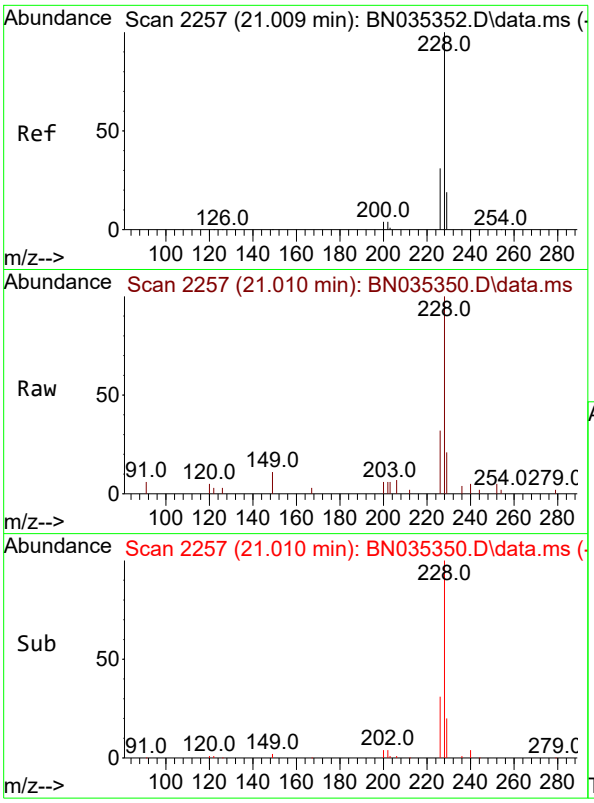


#32
Benzo(a)anthracene
Concen: 0.103 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:228 Resp: 4031

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.5	33.7
229	20.4	15.8	23.8



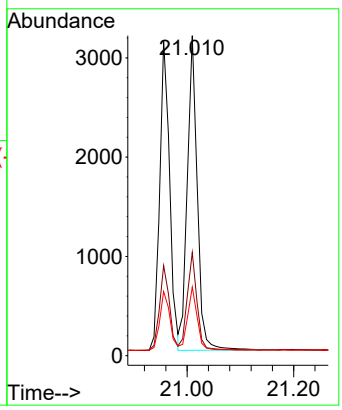


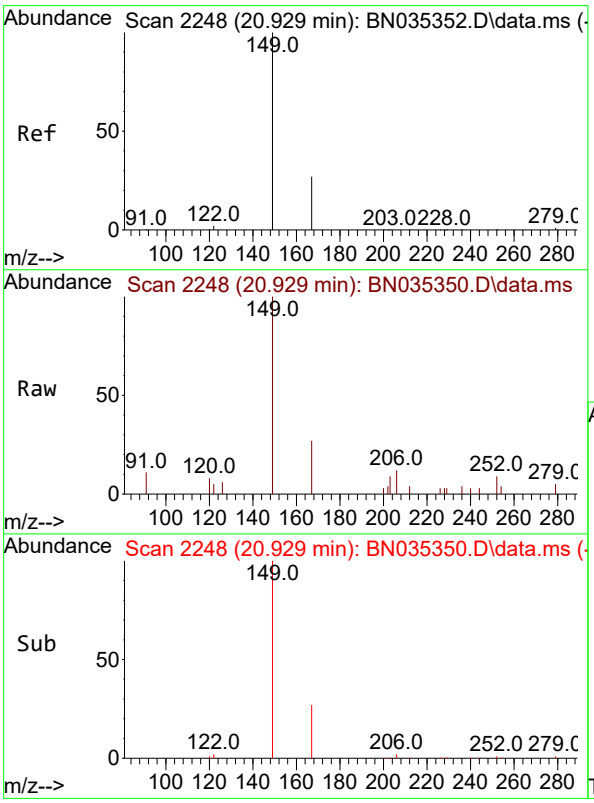
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4123

Ion	Ratio	Lower	Upper
228	100		
226	32.3	24.6	37.0
229	21.5	15.9	23.9

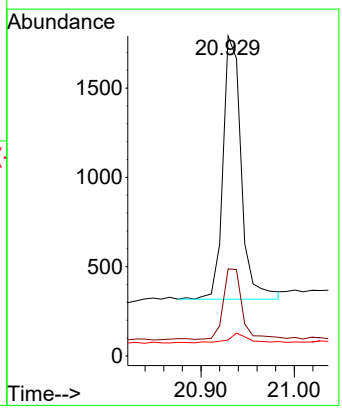


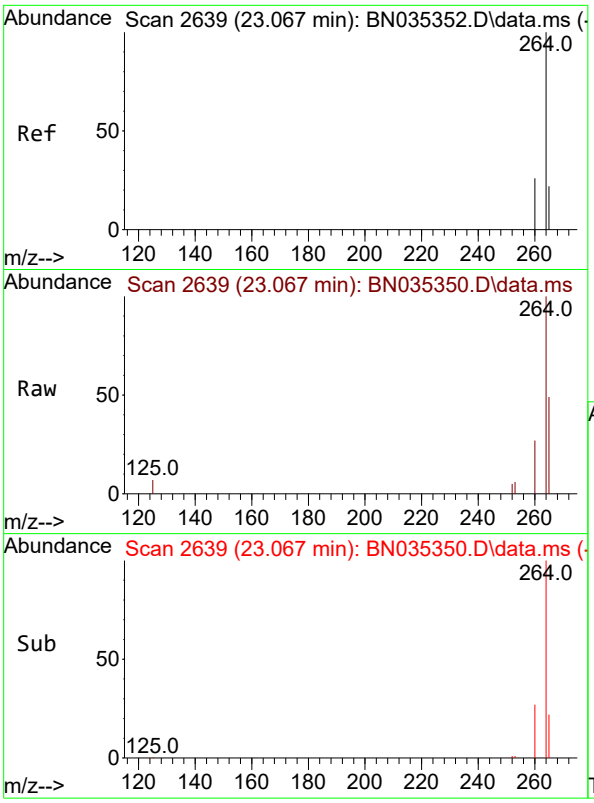


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:149 Resp: 1999

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	3.6	2.7	4.1



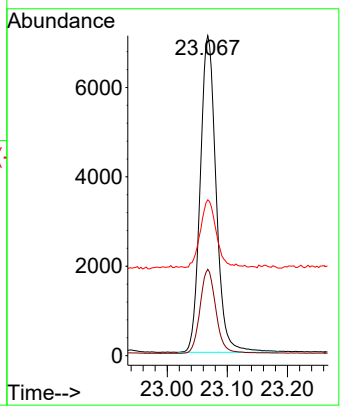


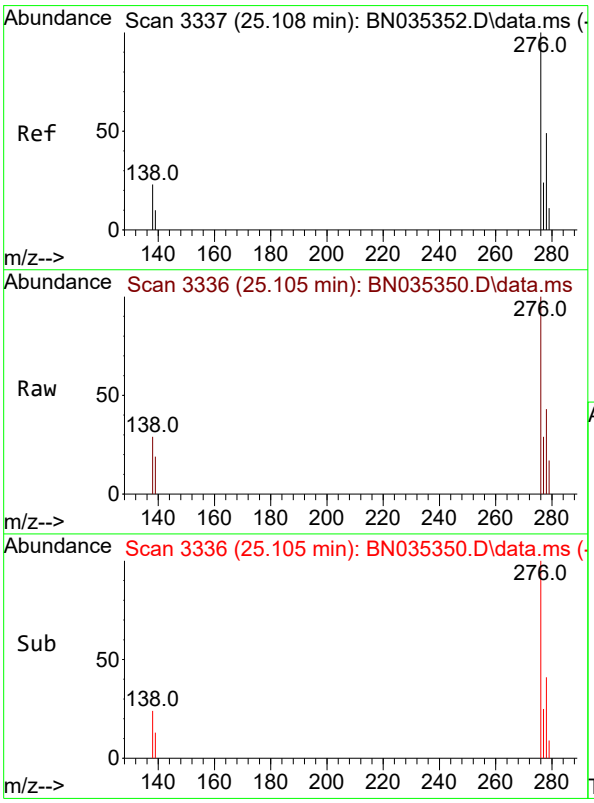
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 13004

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.2
265	48.7	40.2	60.4

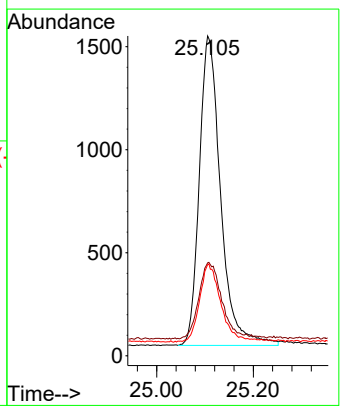


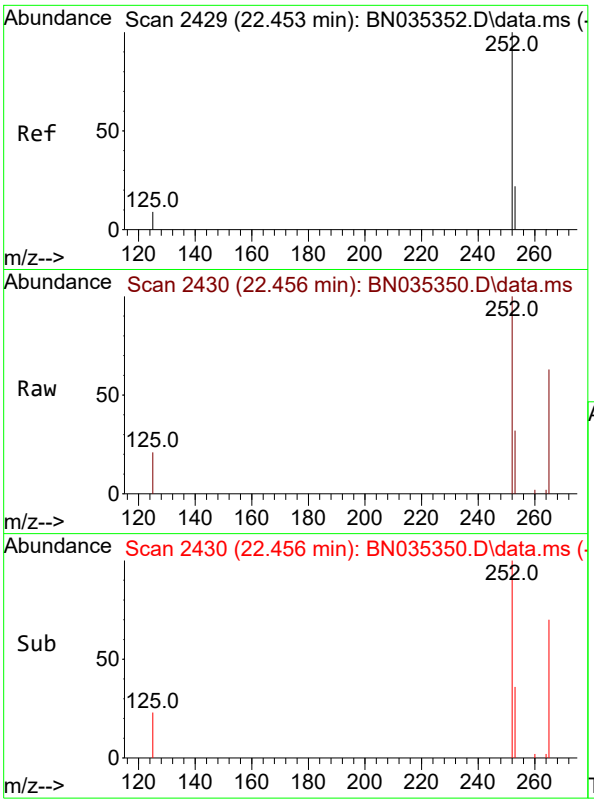


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:276 Resp: 4586

Ion	Ratio	Lower	Upper
276	100		
138	26.2	19.4	29.0
277	25.6	19.8	29.6



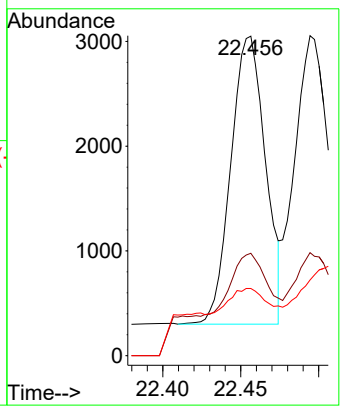


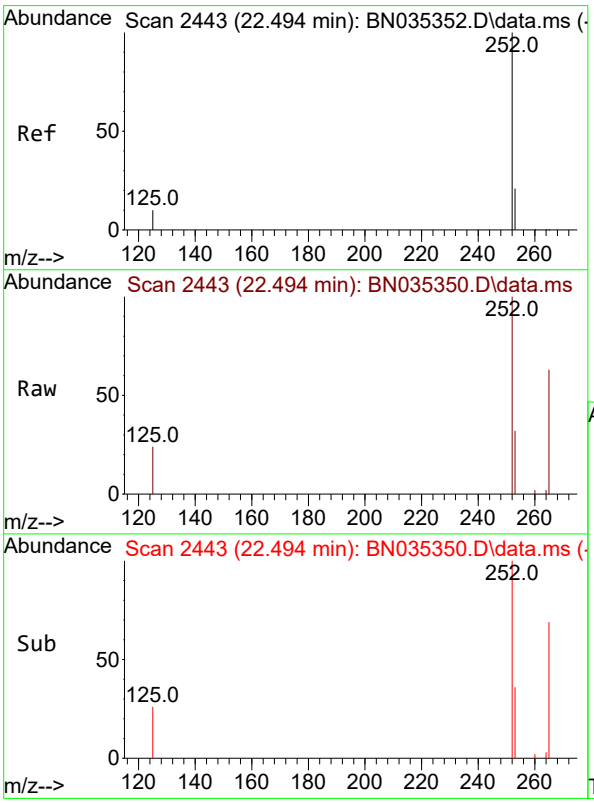
#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4243

Ion	Ratio	Lower	Upper
252	100		
253	32.1	19.6	29.4#
125	21.0	9.6	14.4#

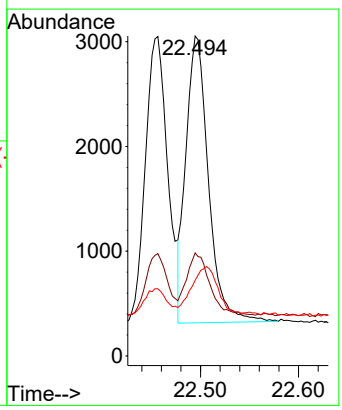


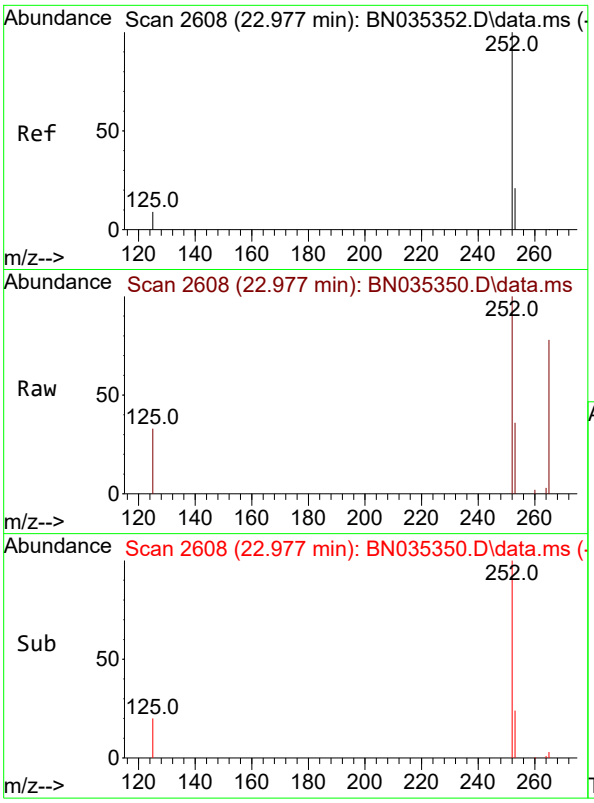


#38
Benzo(k)fluoranthene
Concen: 0.100 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:252 Resp: 4378

Ion	Ratio	Lower	Upper
252	100		
253	32.2	19.5	29.3#
125	23.7	10.2	15.4#



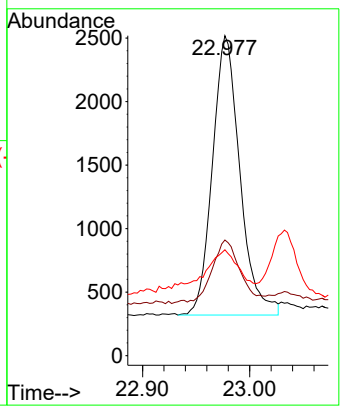


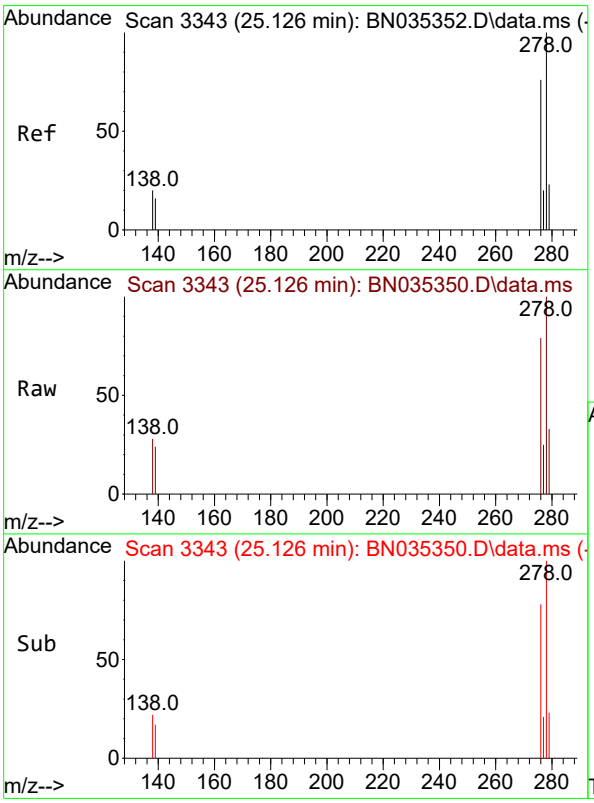
#39
Benzo(a)pyrene
Concen: 0.102 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 3913

Ion	Ratio	Lower	Upper
252	100		
253	36.1	20.2	30.4#
125	33.1	10.9	16.3#

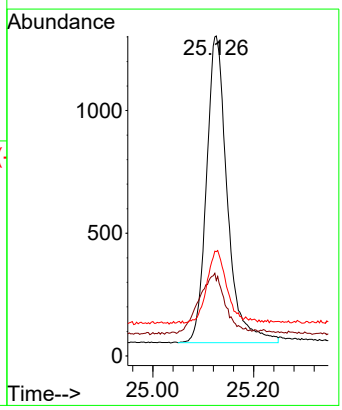


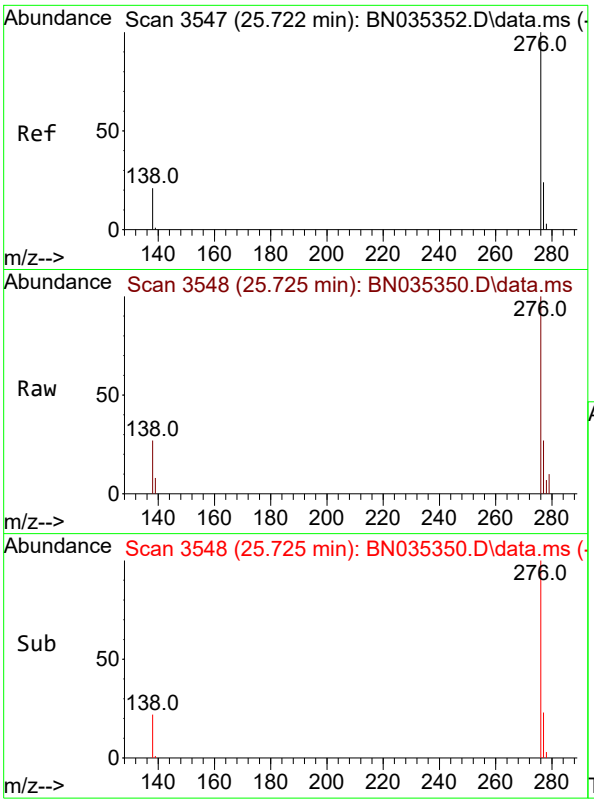


#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:278 Resp: 3588

Ion	Ratio	Lower	Upper
278	100		
139	23.6	14.2	21.4#
279	32.6	20.5	30.7#



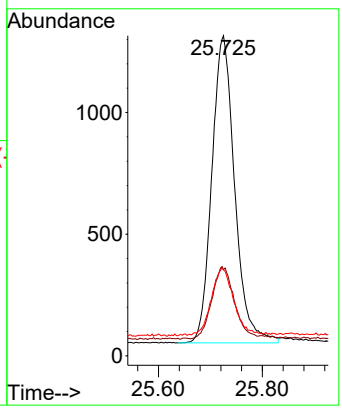


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 3863

Ion	Ratio	Lower	Upper
276	100		
277	26.9	19.9	29.9
138	26.8	17.8	26.8#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	240	9963	0.400	ng	0.00
35) Perylene-d12	23.070	264	11158	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	1159	0.219	ng	0.00
5) Phenol-d6	6.513	99	1236	0.186	ng	0.00
8) Nitrobenzene-d5	8.450	82	806	0.174	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	1608	0.169	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	492	0.179	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	2838	0.184	ng	0.00
27) Fluoranthene-d10	18.784	212	5379	0.177	ng	0.00
31) Terphenyl-d14	19.416	244	3871	0.185	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.003	88	435	0.230	ng	# 95
3) n-Nitrosodimethylamine	3.299	42	315	0.179	ng	# 87
6) bis(2-Chloroethyl)ether	6.759	93	1064	0.214	ng	99
9) Naphthalene	10.105	128	2744	0.197	ng	96
10) Hexachlorobutadiene	10.404	225	646	0.158	ng	# 99
12) 2-Methylnaphthalene	11.737	142	1910	0.186	ng	98
16) Acenaphthylene	13.678	152	3047	0.187	ng	99
17) Acenaphthene	14.031	154	2064	0.194	ng	99
18) Fluorene	15.026	166	2949	0.188	ng	99
20) 4,6-Dinitro-2-methylph...	15.132	198	153	0.074	ng	# 53
21) 4-Bromophenyl-phenylether	15.941	248	1081	0.171	ng	96
22) Hexachlorobenzene	16.040	284	1318	0.201	ng	98
23) Atrazine	16.227	200	770	0.136	ng	93
24) Pentachlorophenol	16.400	266	445	0.145	ng	# 84
25) Phenanthrene	16.773	178	5182	0.199	ng	99
26) Anthracene	16.860	178	4571	0.191	ng	100
28) Fluoranthene	18.817	202	6914	0.193	ng	100
30) Pyrene	19.184	202	7198	0.217	ng	100
32) Benzo(a)anthracene	20.956	228	6691	0.193	ng	99
33) Chrysene	21.009	228	7234	0.211	ng	99
34) Bis(2-ethylhexyl)phtha...	20.938	149	2779	0.153	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.108	276	8305	0.187	ng	100
37) Benzo(b)fluoranthene	22.456	252	7522	0.200	ng	# 94
38) Benzo(k)fluoranthene	22.456	252	7522	0.200	ng	94
39) Benzo(a)pyrene	22.980	252	6450	0.195	ng	# 90
40) Dibenzo(a,h)anthracene	25.128	278	6620	0.188	ng	96
41) Benzo(g,h,i)perylene	25.725	276	6908	0.184	ng	99

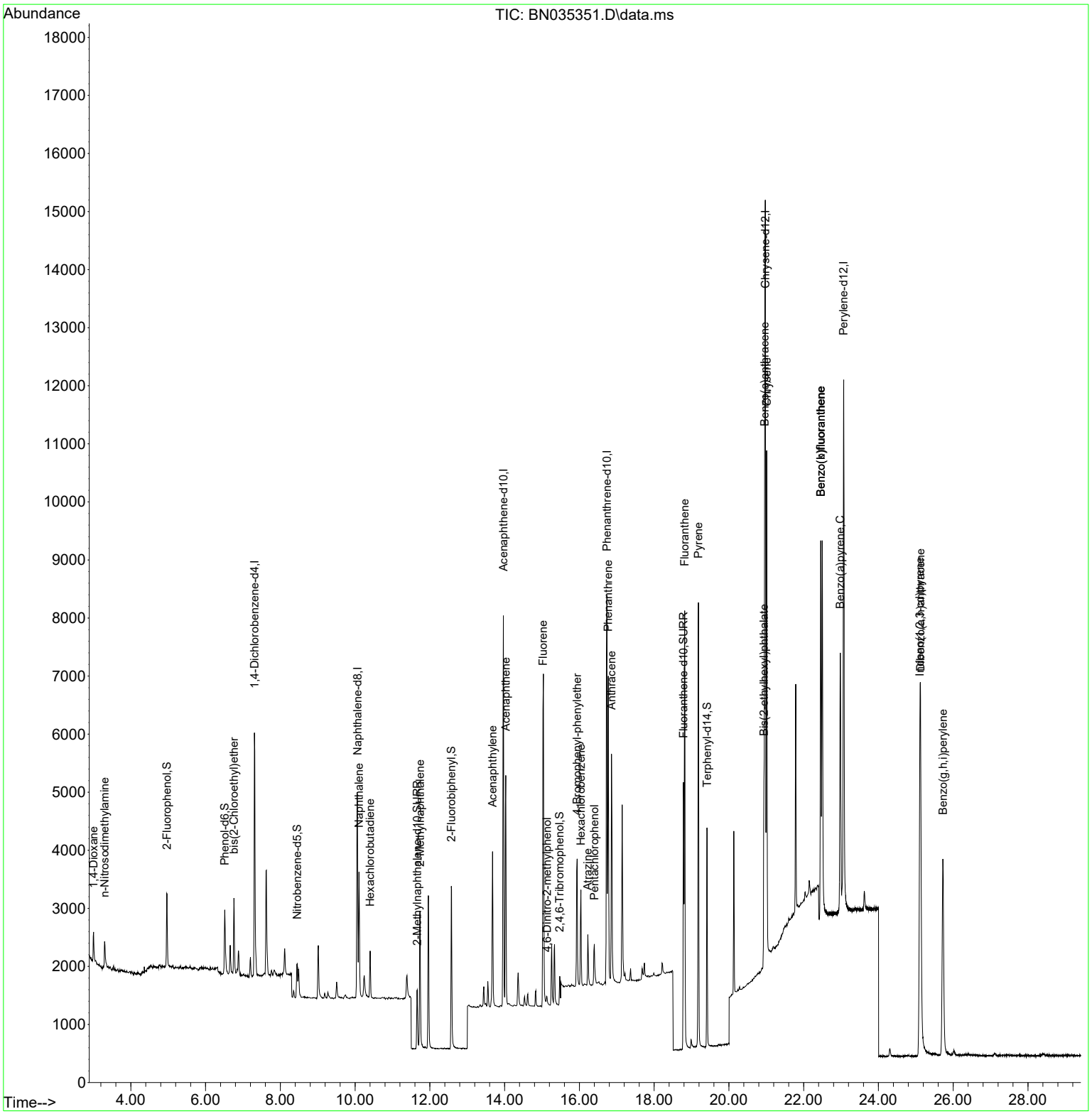
(#) = qualifier out of range (m) = manual integration (+) = signals summed

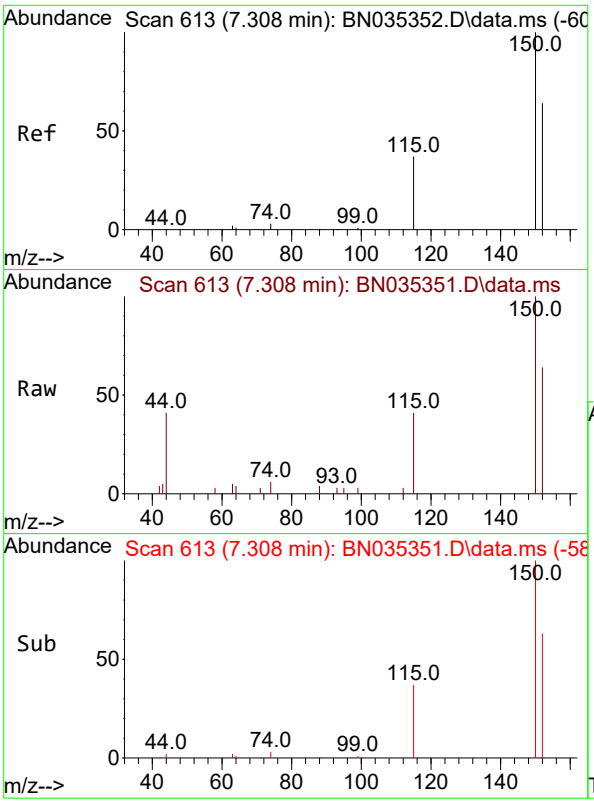
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035351.D
Acq On : 27 Nov 2024 16:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 27 22:52:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



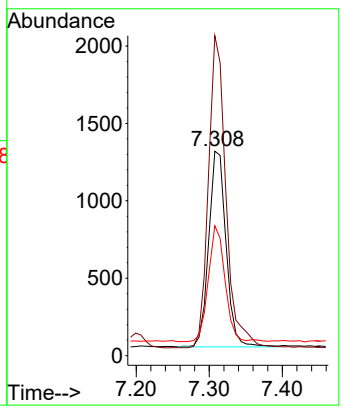


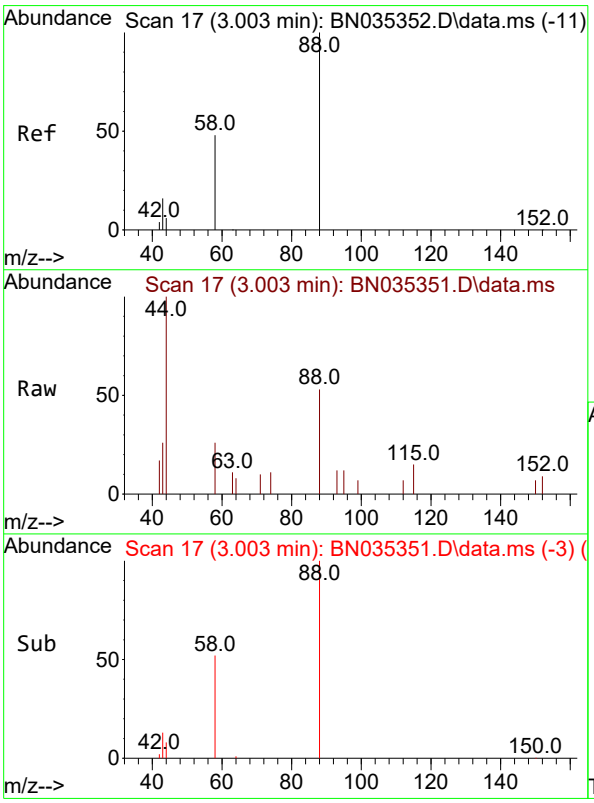
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 2084

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.0	186.0
115	63.5	49.6	74.4

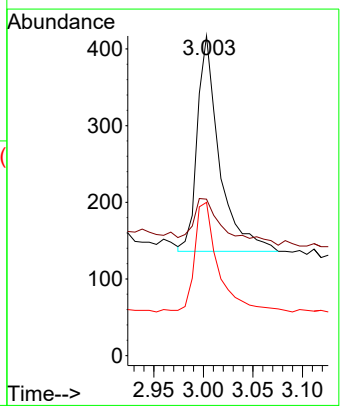


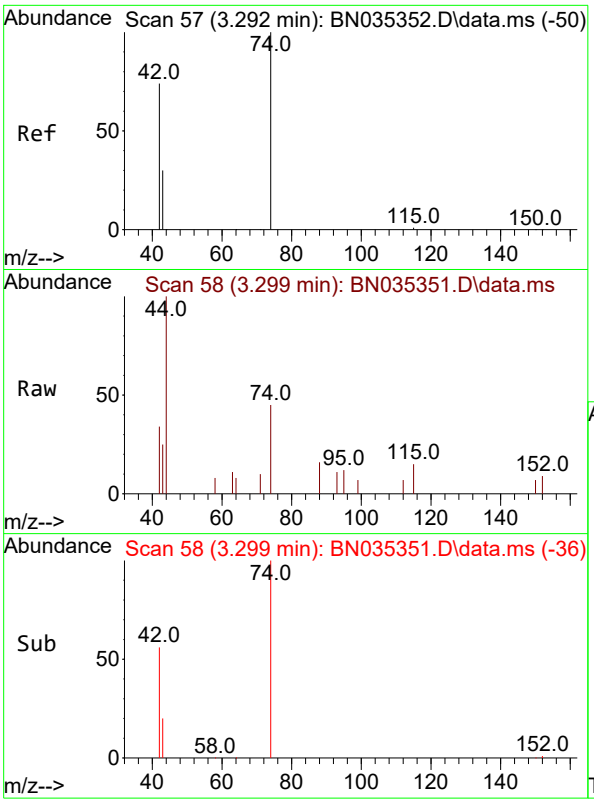


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 88 Resp: 435

Ion	Ratio	Lower	Upper
88	100		
43	29.9	17.2	25.8#
58	55.2	44.5	66.7



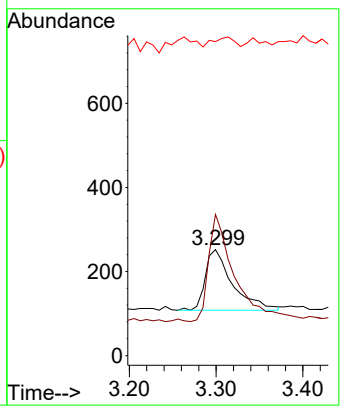


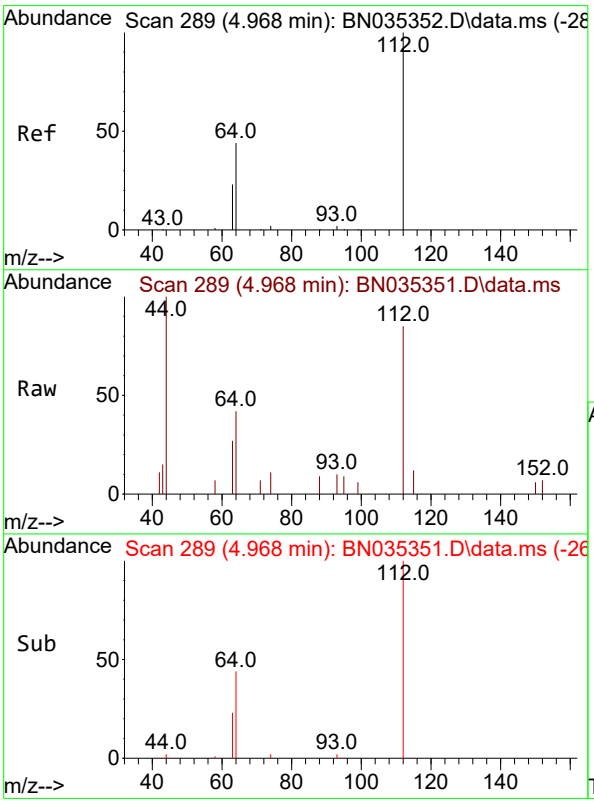
#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 315

Ion	Ratio	Lower	Upper
42	100		
74	172.4	124.9	187.3
44	16.2	2.2	3.4#

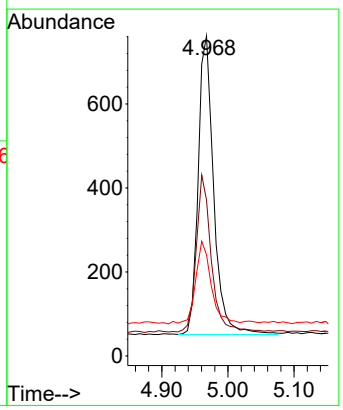


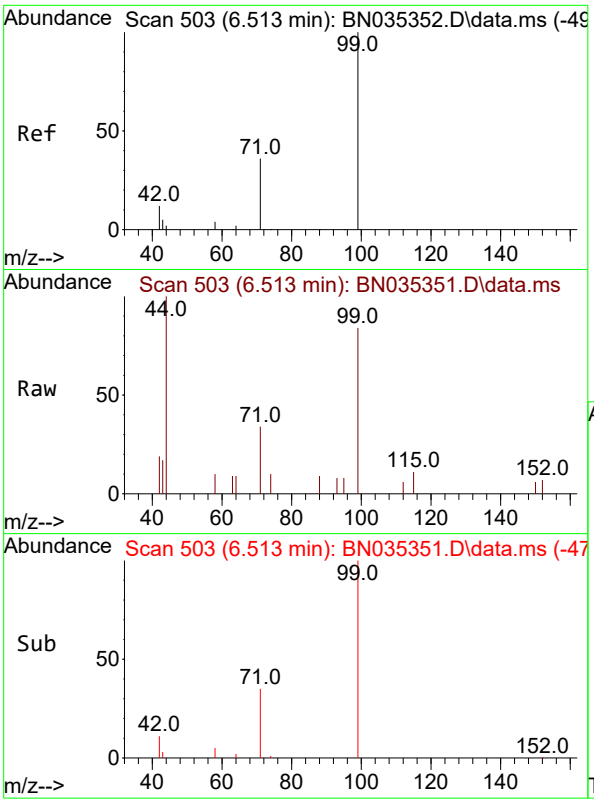


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:112 Resp: 1159

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	27.9	21.0	31.6



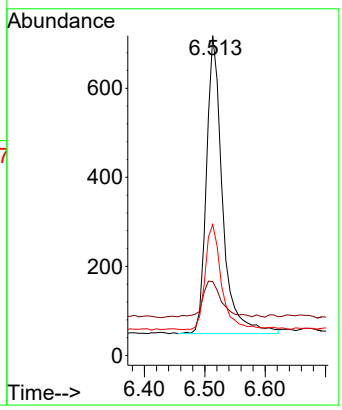


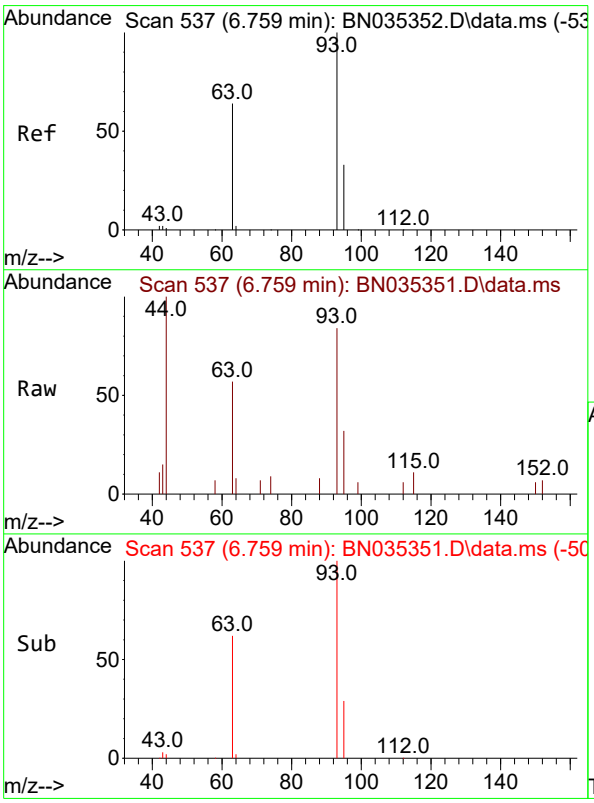
#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1236

Ion	Ratio	Lower	Upper
99	100		
42	15.0	11.4	17.2
71	35.8	29.3	43.9

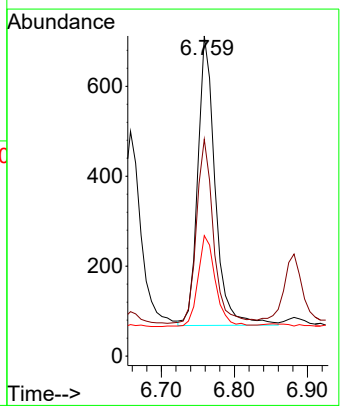


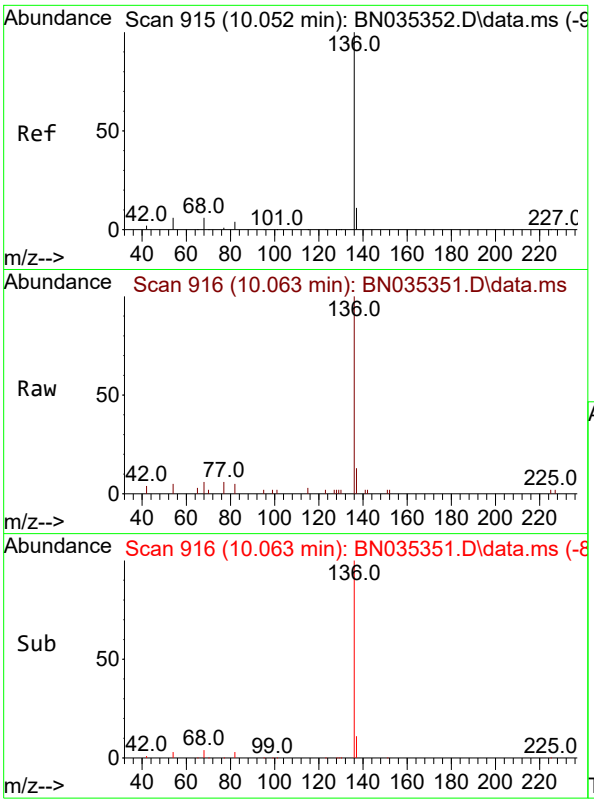


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 93 Resp: 1064

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.6	25.7	38.5



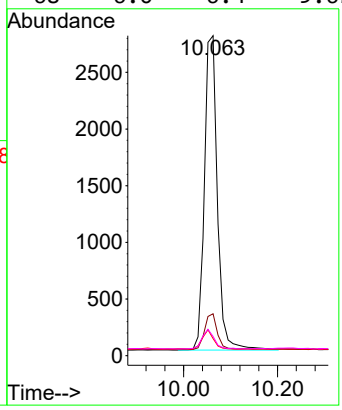


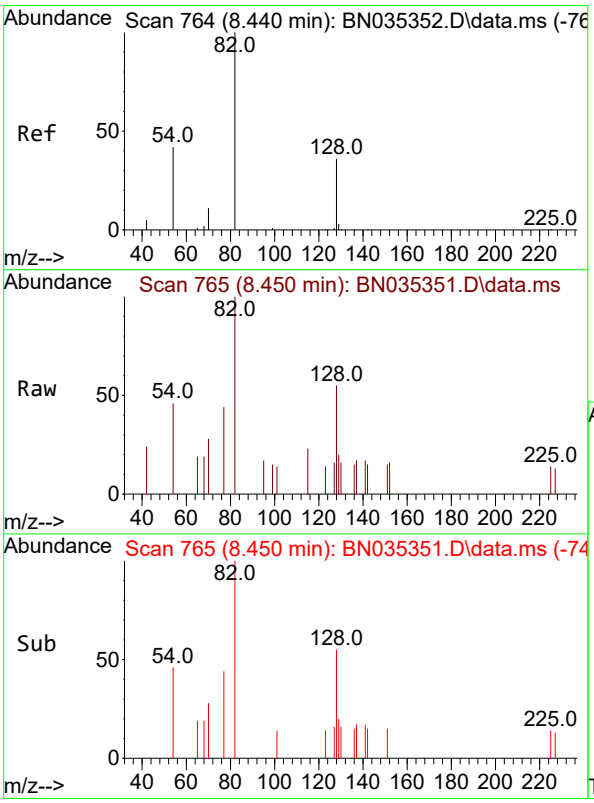
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 5334

Ion	Ratio	Lower	Upper
136	100		
137	13.1	10.2	15.2
54	5.3	6.1	9.1#
68	6.0	6.4	9.6#

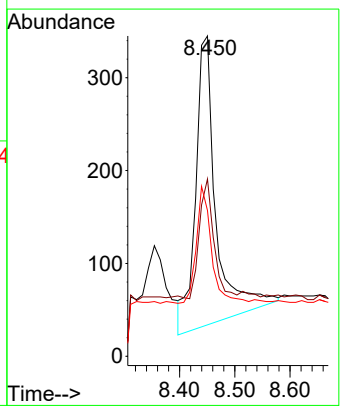


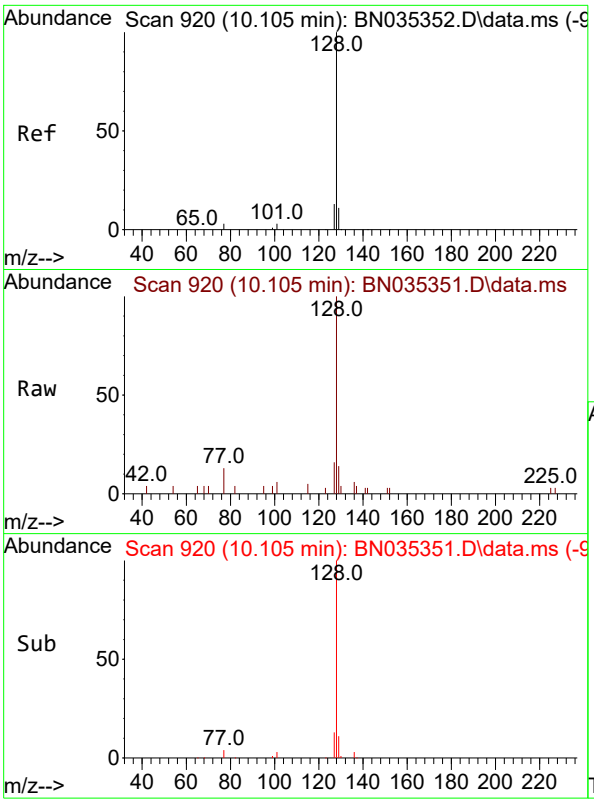


#8
Nitrobenzene-d5
Concen: 0.174 ng
RT: 8.450 min Scan# 765
Delta R.T. 0.011 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion: 82 Resp: 806

Ion	Ratio	Lower	Upper
82	100		
128	55.4	33.4	50.0#
54	45.5	36.7	55.1



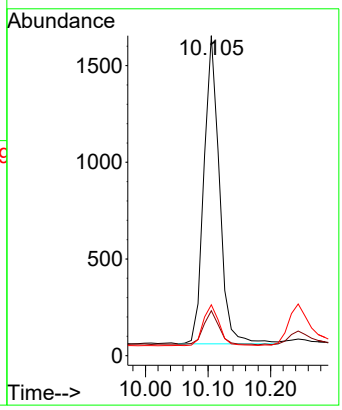


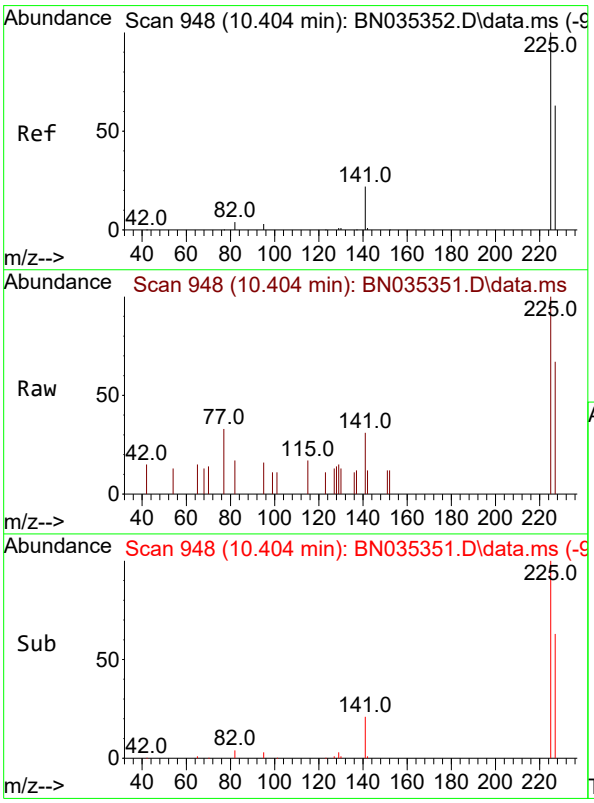
#9
Naphthalene
Concen: 0.197 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 2744

Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.6
127	15.9	11.4	17.2

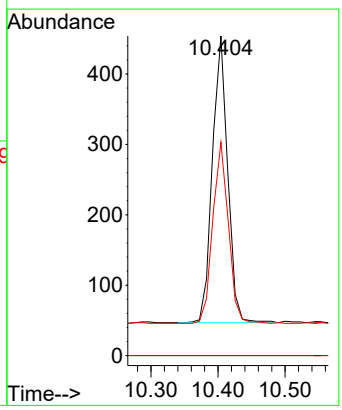


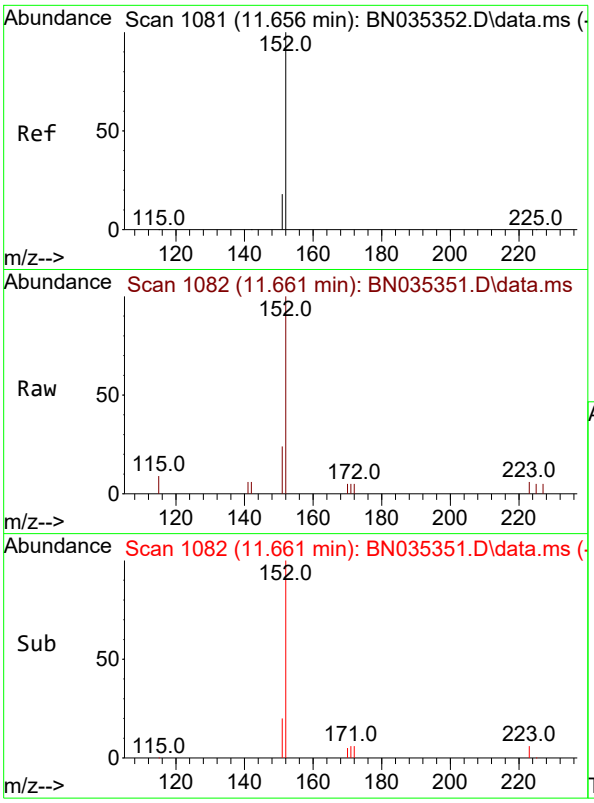


#10
Hexachlorobutadiene
Concen: 0.158 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:225 Resp: 646

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.3	76.9



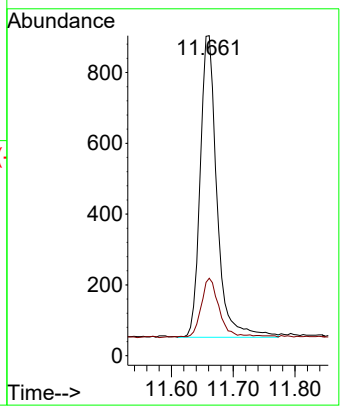


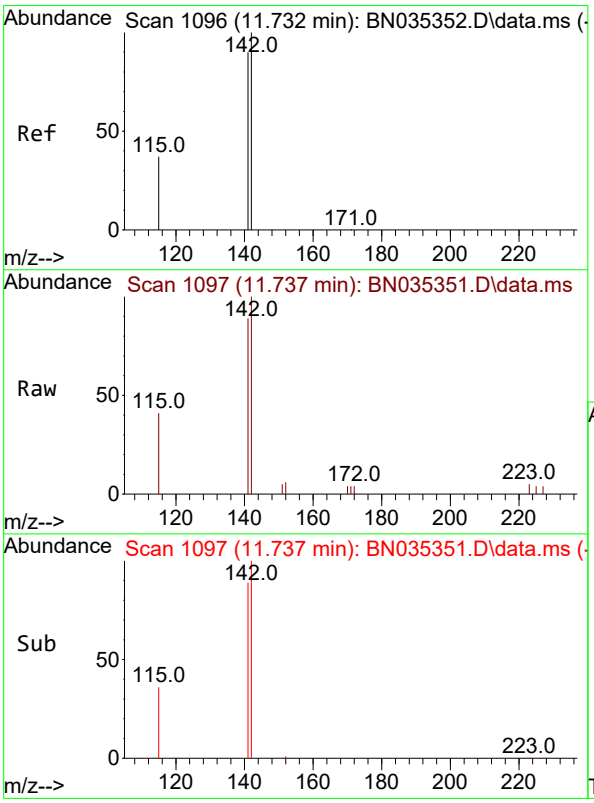
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1608

Ion	Ratio	Lower	Upper
152	100		
151	22.3	16.6	25.0

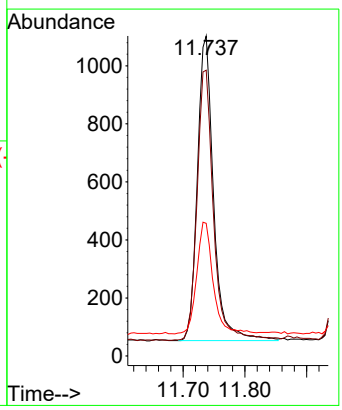


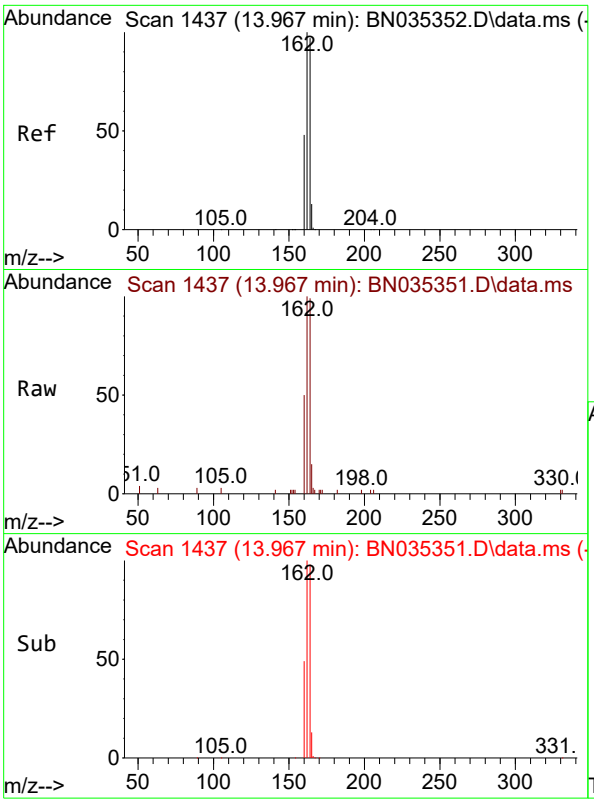


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:142 Resp: 1910

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	41.4	31.4	47.0



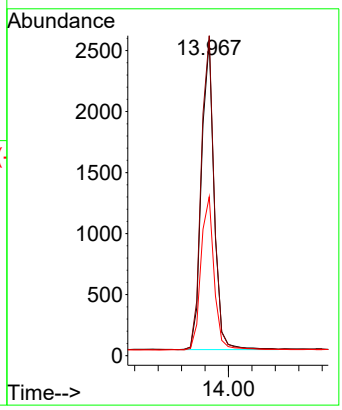


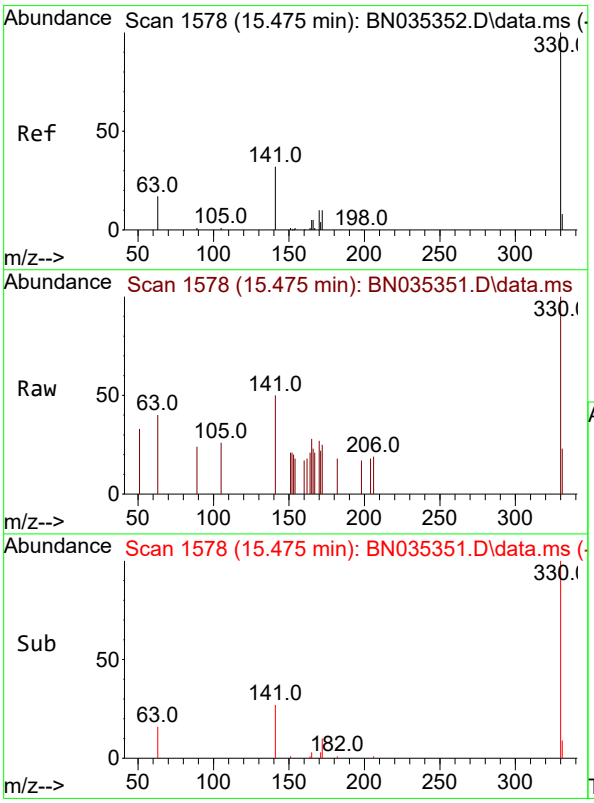
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 3808

Ion	Ratio	Lower	Upper
164	100		
162	101.5	82.2	123.2
160	50.4	40.1	60.1

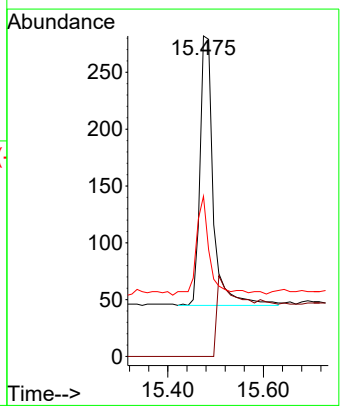


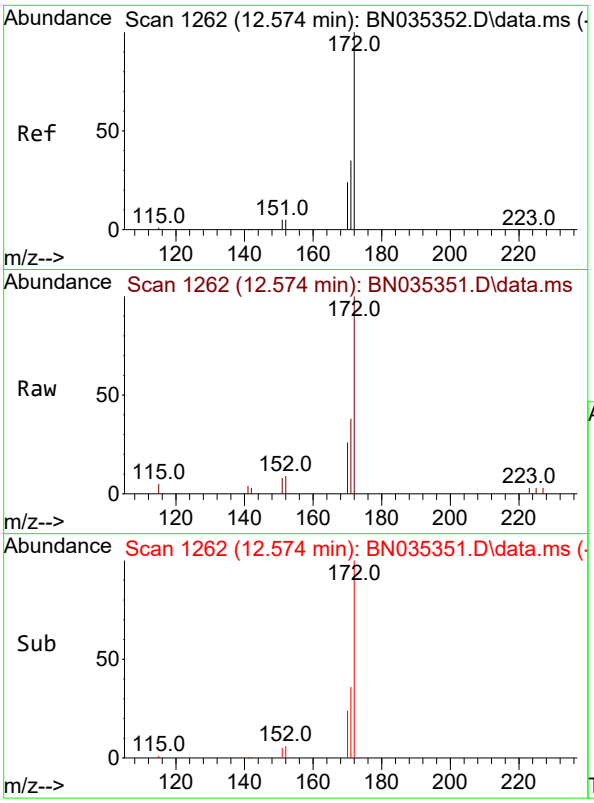


#14
2,4,6-Tribromophenol
Concen: 0.179 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:330 Resp: 492

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	37.2	26.6	40.0



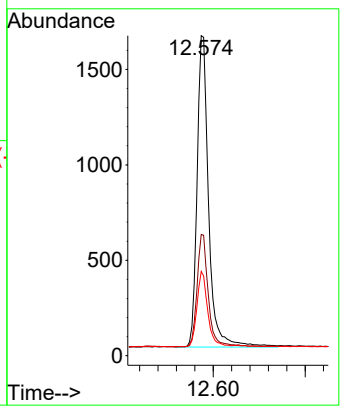


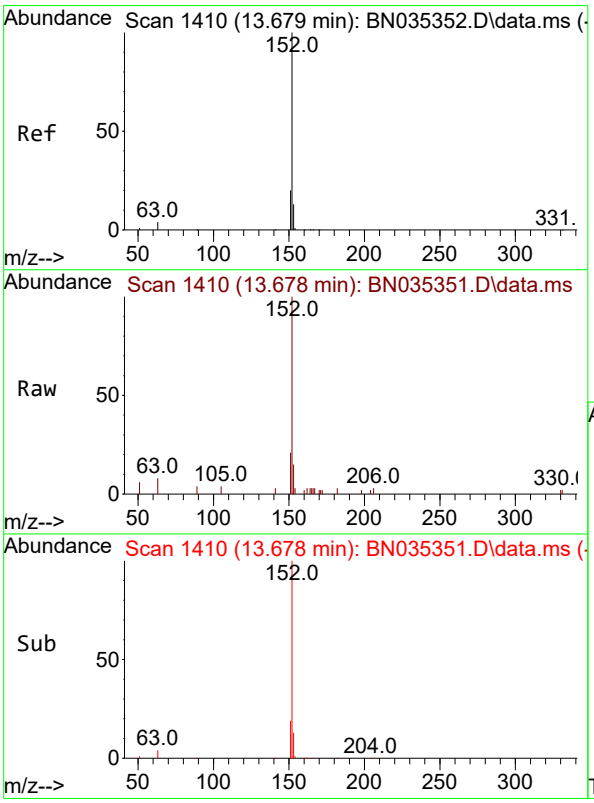
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 2838

Ion	Ratio	Lower	Upper
172	100		
171	37.9	29.0	43.4
170	26.3	19.8	29.8

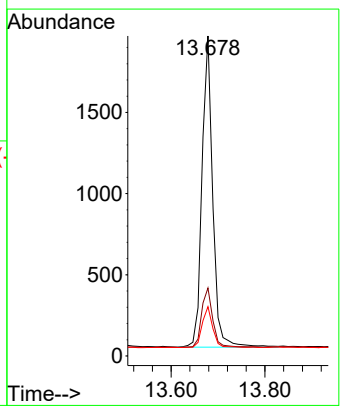


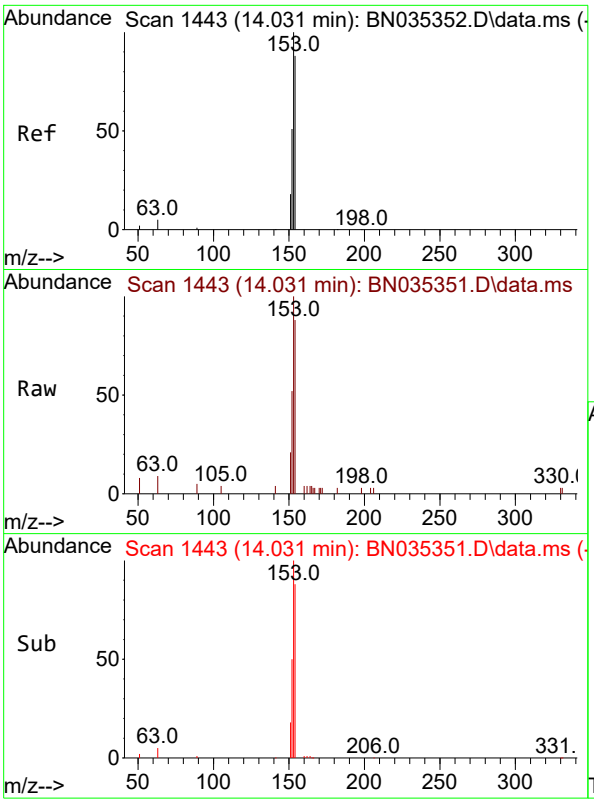


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:152 Resp: 3047

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	12.9	10.4	15.6



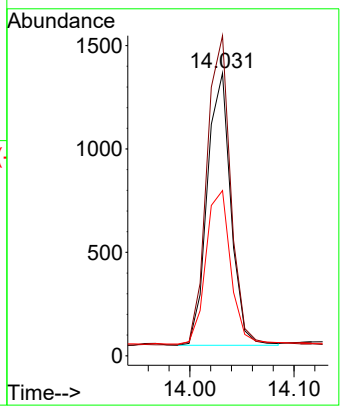


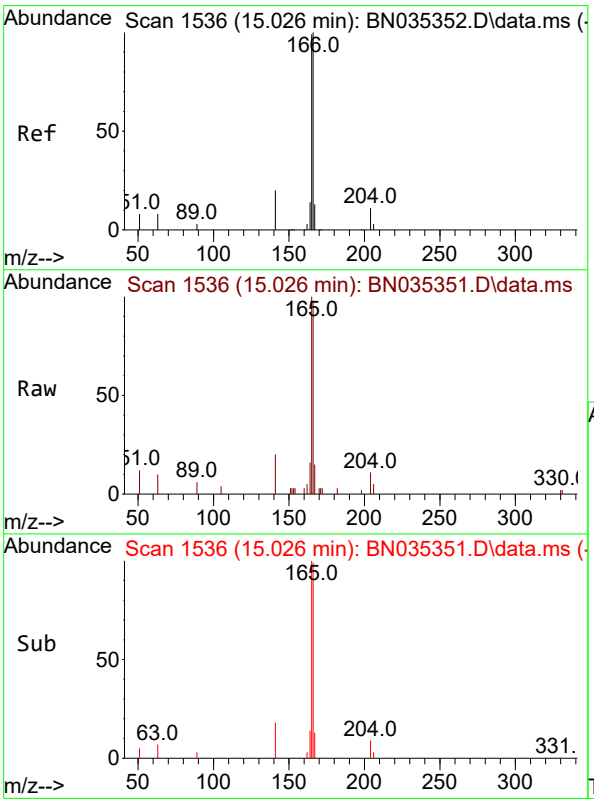
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 2064

Ion	Ratio	Lower	Upper
154	100		
153	115.2	92.6	139.0
152	60.7	49.0	73.6

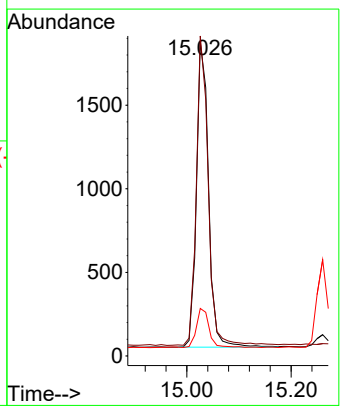


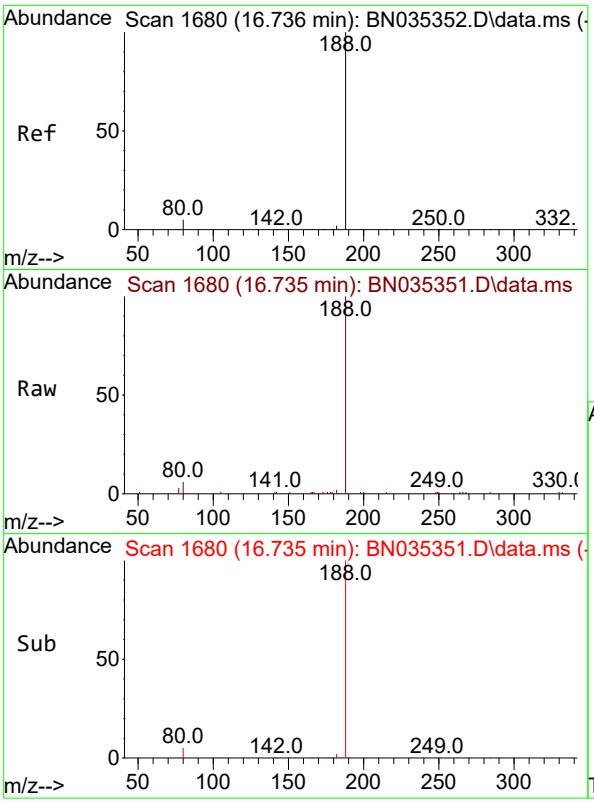


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:166 Resp: 2949

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2



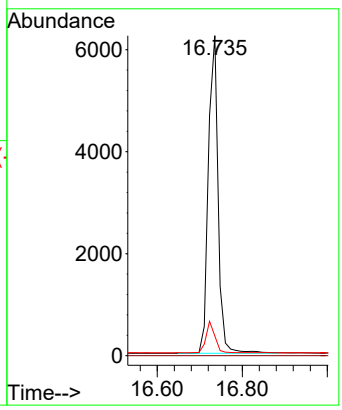


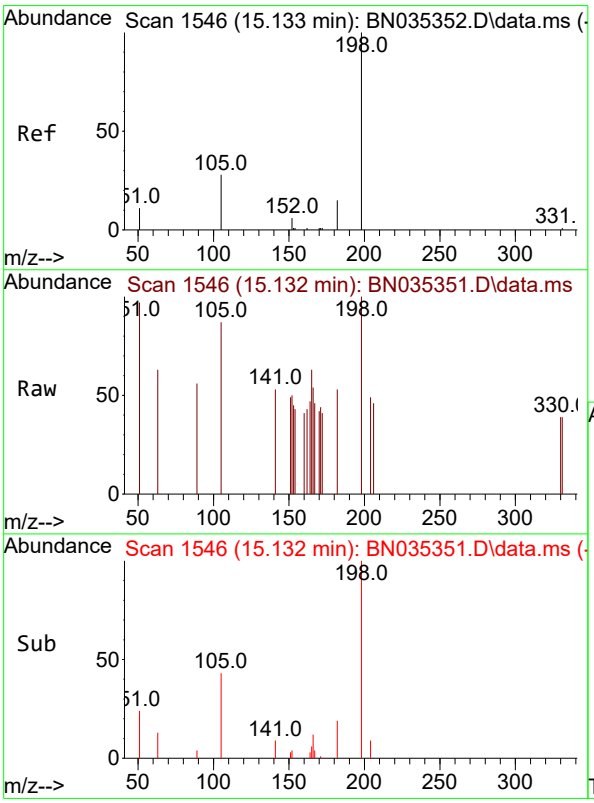
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 9904

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.2	4.6	6.8

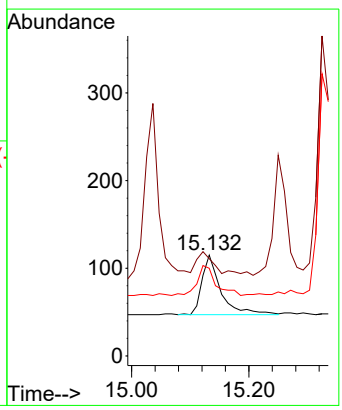


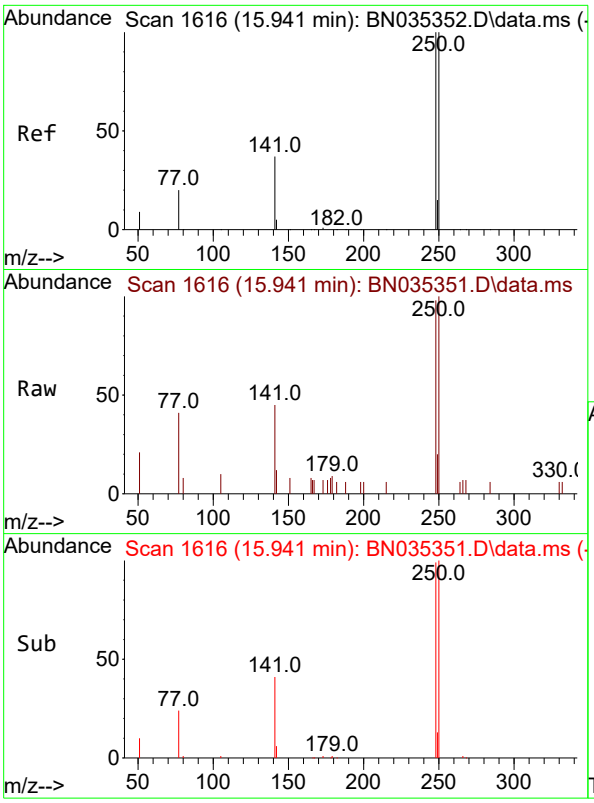


#20
4,6-Dinitro-2-methylphenol
Concen: 0.074 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:198 Resp: 153

Ion	Ratio	Lower	Upper
198	100		
51	96.5	46.5	69.7#
105	87.0	45.3	67.9#



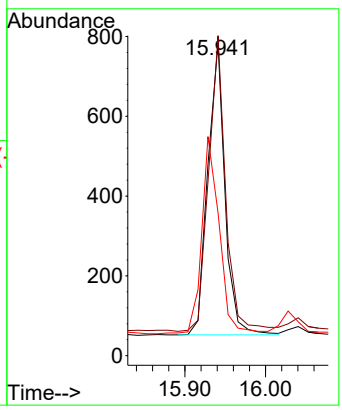


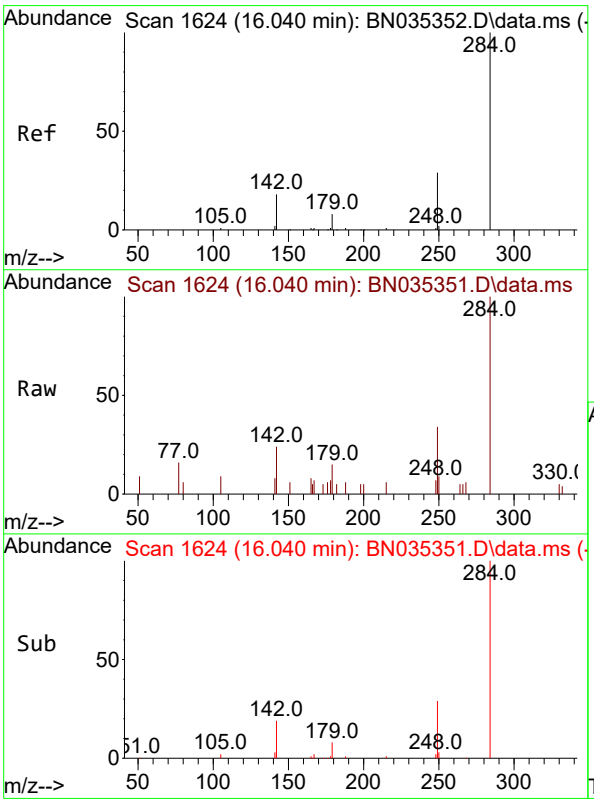
#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 1081

Ion	Ratio	Lower	Upper
248	100		
250	102.3	80.6	120.8
141	45.7	31.5	47.3

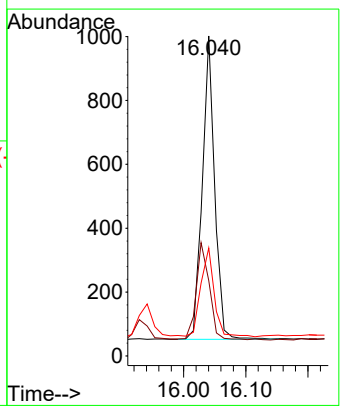


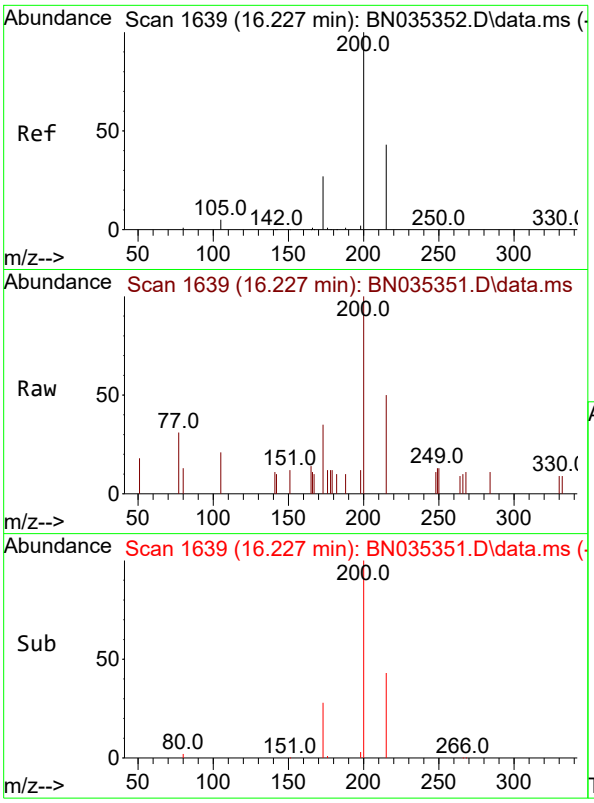


#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:284 Resp: 1318

Ion	Ratio	Lower	Upper
284	100		
142	34.2	26.7	40.1
249	32.0	24.6	36.8



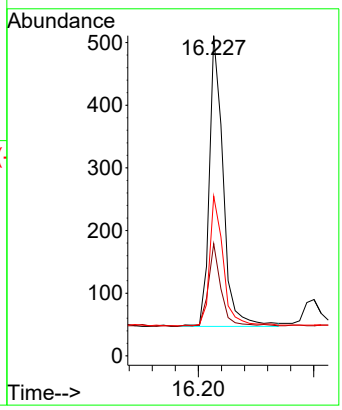


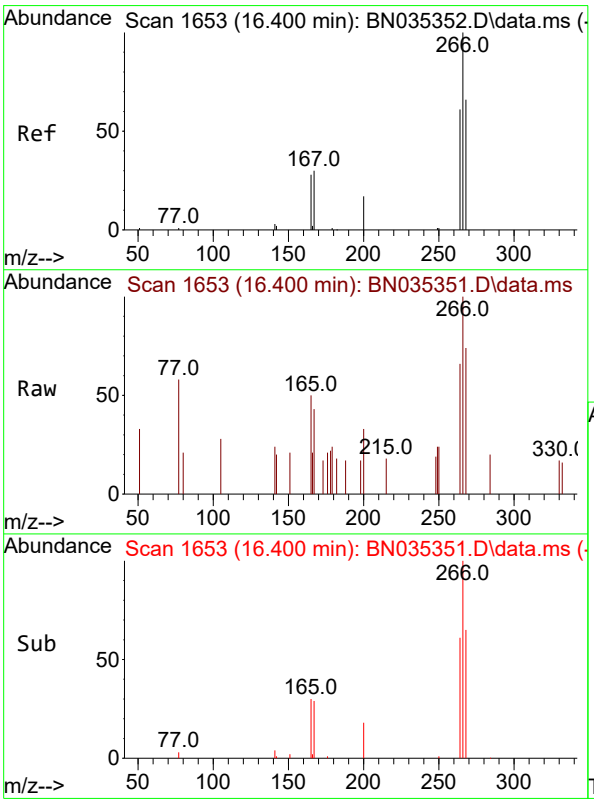
#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 770

Ion	Ratio	Lower	Upper
200	100		
173	35.0	24.1	36.1
215	49.9	36.9	55.3

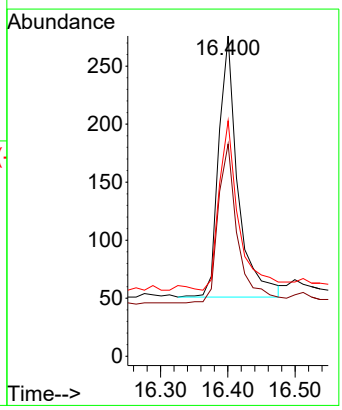


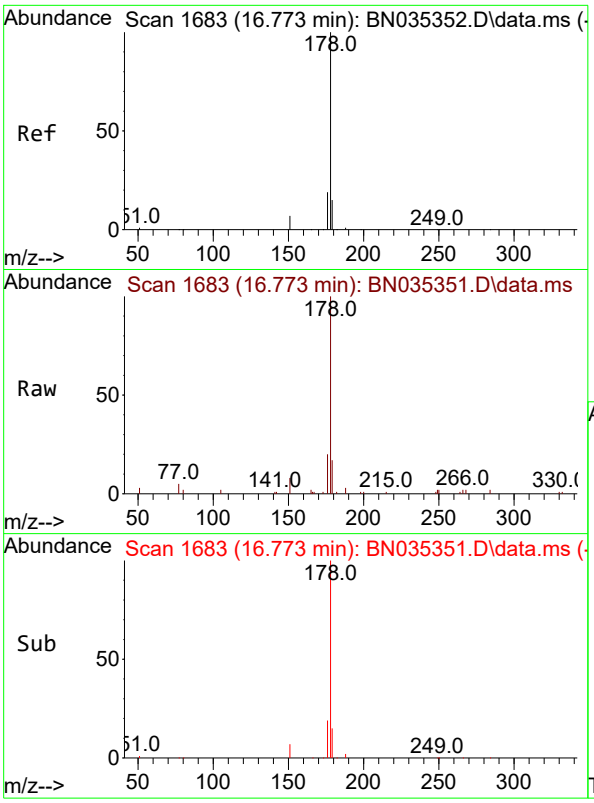


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:266 Resp: 445

Ion	Ratio	Lower	Upper
266	100		
264	62.7	42.3	63.5
268	67.2	43.3	64.9#



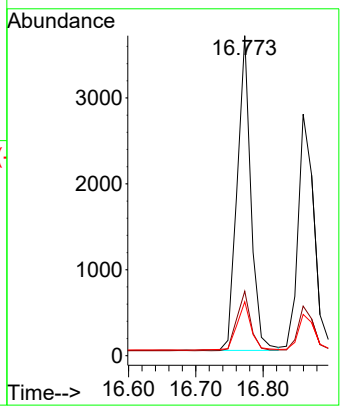


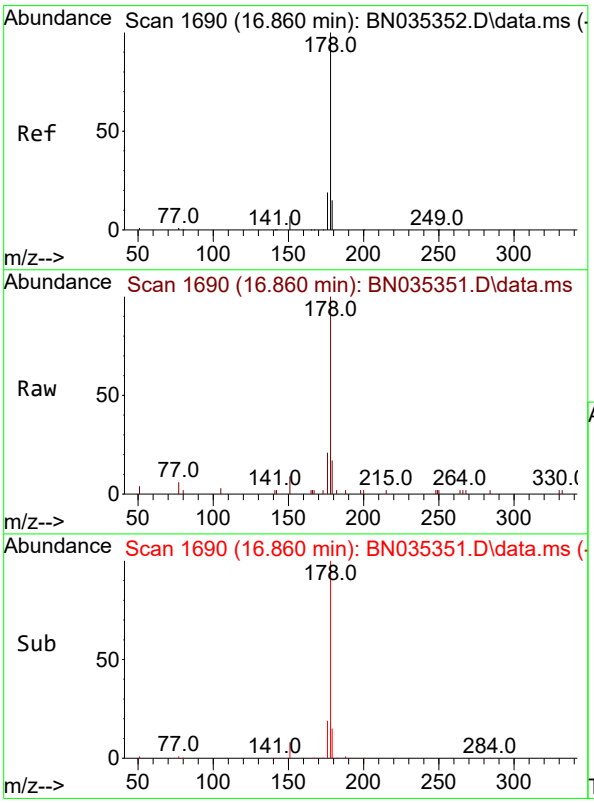
#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 5182

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	15.9	12.3	18.5

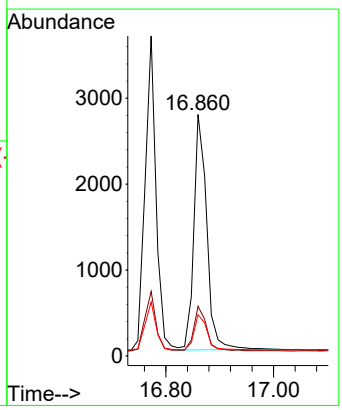


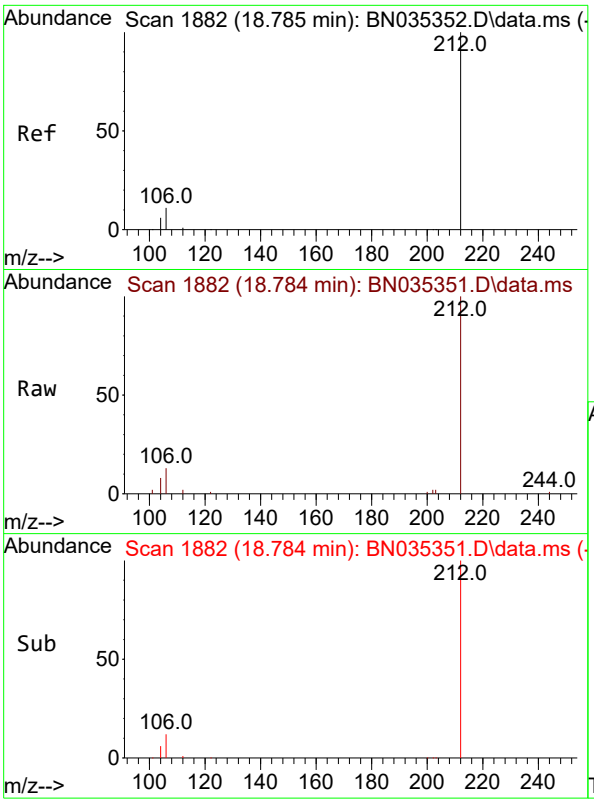


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:178 Resp: 4571

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.4	12.6	18.8



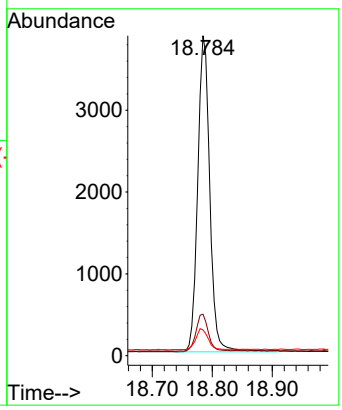


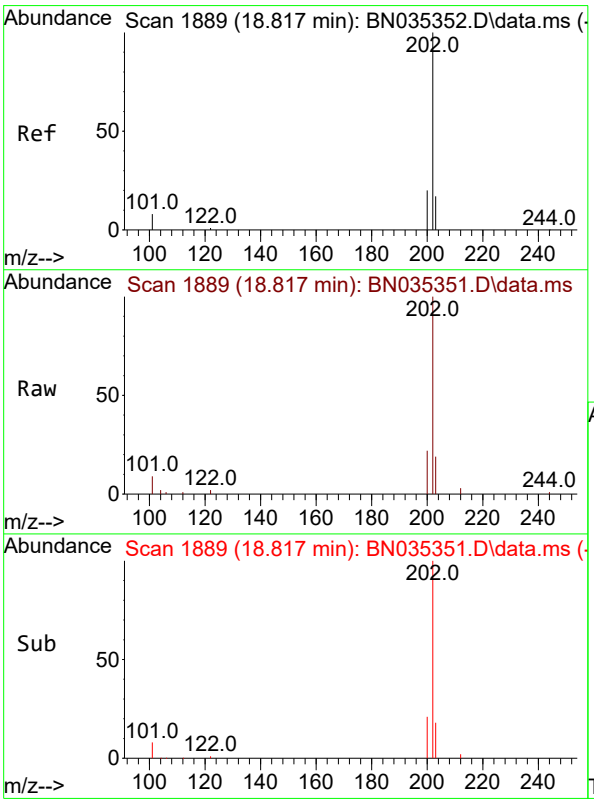
#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 5379

Ion	Ratio	Lower	Upper
212	100		
106	11.8	9.2	13.8
104	6.9	5.3	7.9

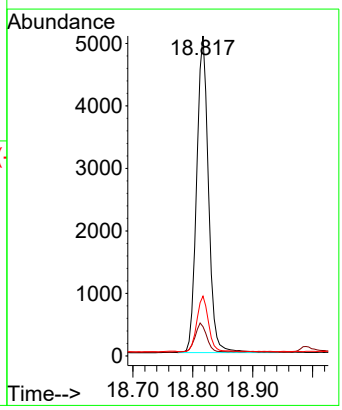


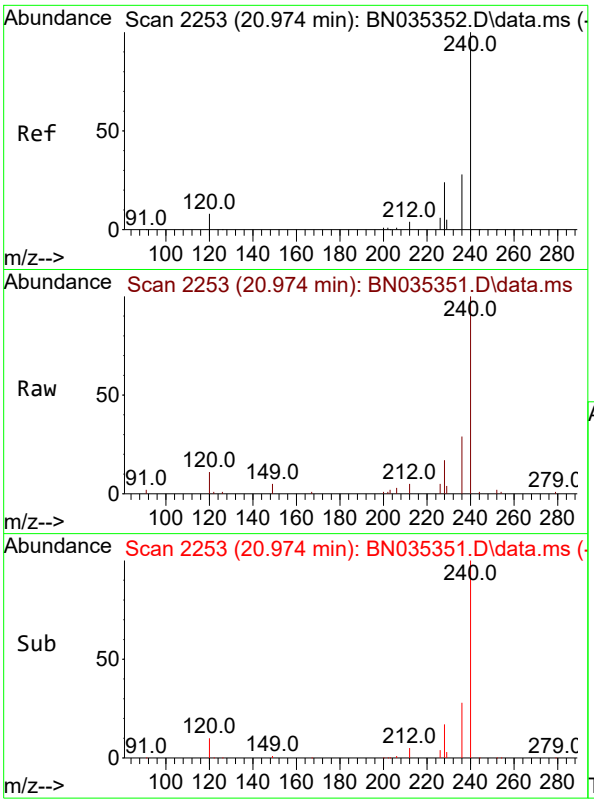


#28
Fluoranthene
Concen: 0.193 ng
RT: 18.817 min Scan# 1889
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 6914

Ion	Ratio	Lower	Upper
202	100		
101	9.3	7.4	11.0
203	17.3	13.7	20.5



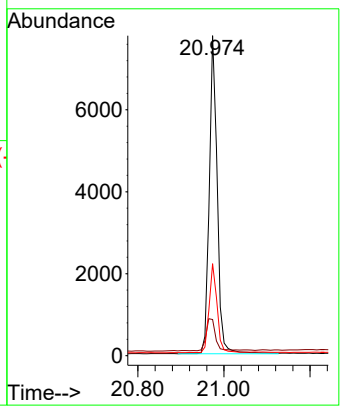


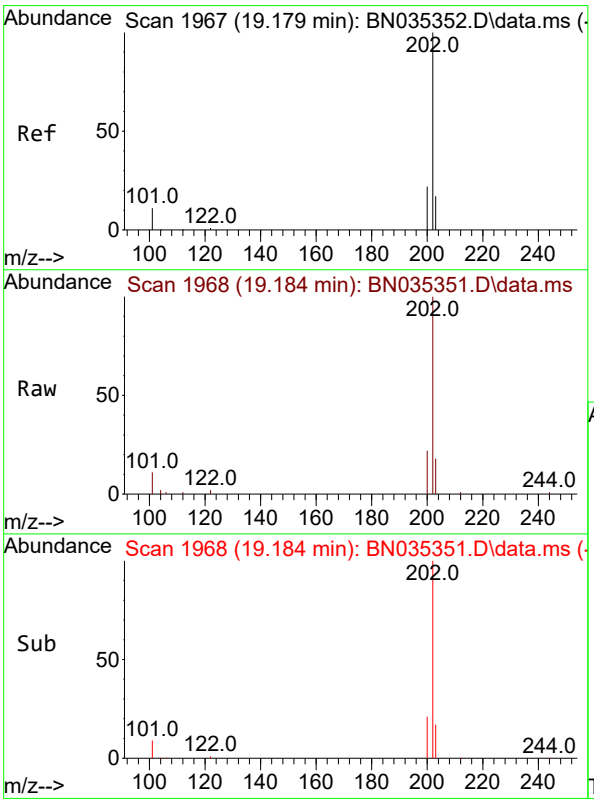
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 9963

Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.9	11.9
236	28.8	22.9	34.3

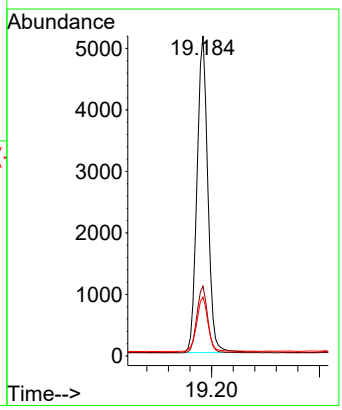


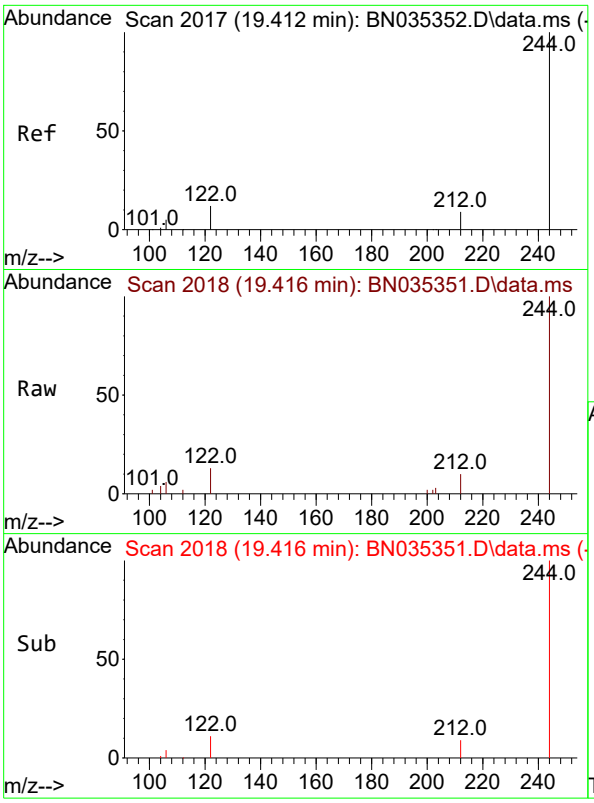


#30
Pyrene
Concen: 0.217 ng
RT: 19.184 min Scan# 1968
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:202 Resp: 7198

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



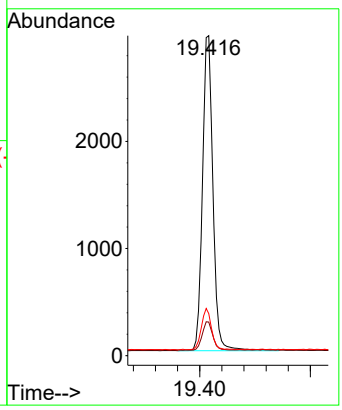


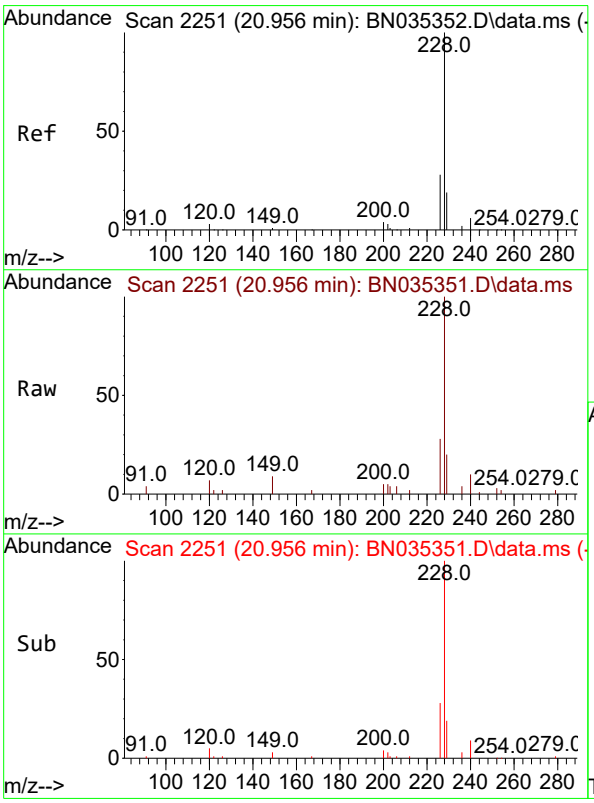
#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 3871

Ion	Ratio	Lower	Upper
244	100		
212	10.5	8.1	12.1
122	13.1	10.3	15.5

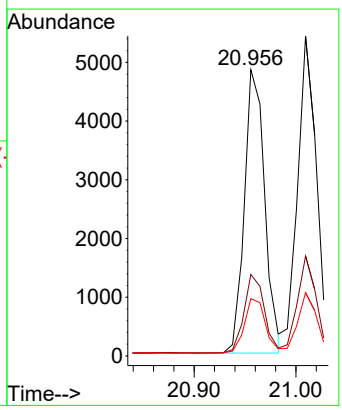


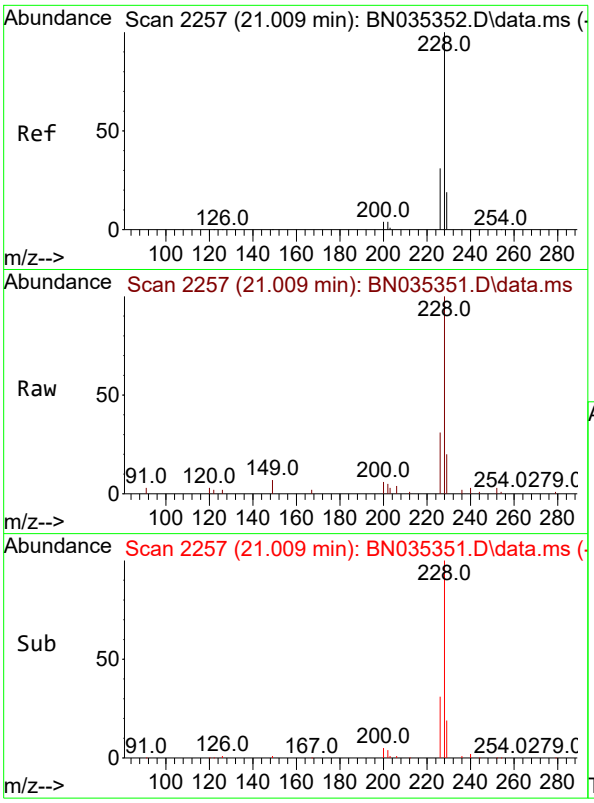


#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:228 Resp: 6691

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.5	33.7
229	20.0	15.8	23.8



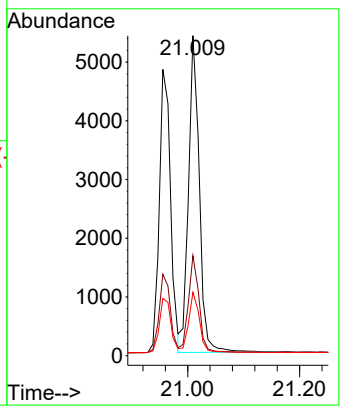


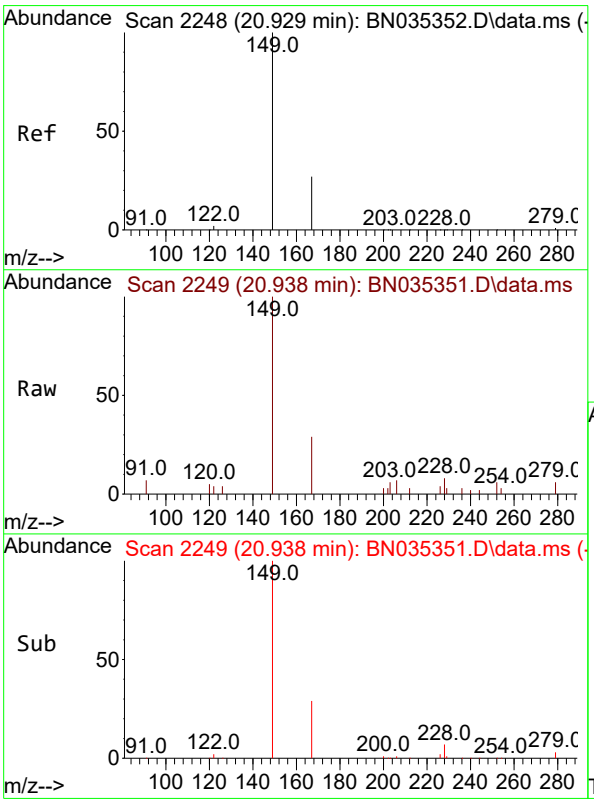
#33
Chrysene
Concen: 0.211 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 7234

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	19.8	15.9	23.9

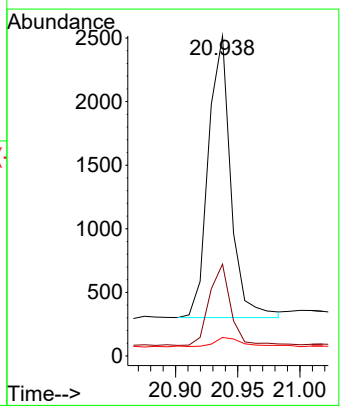


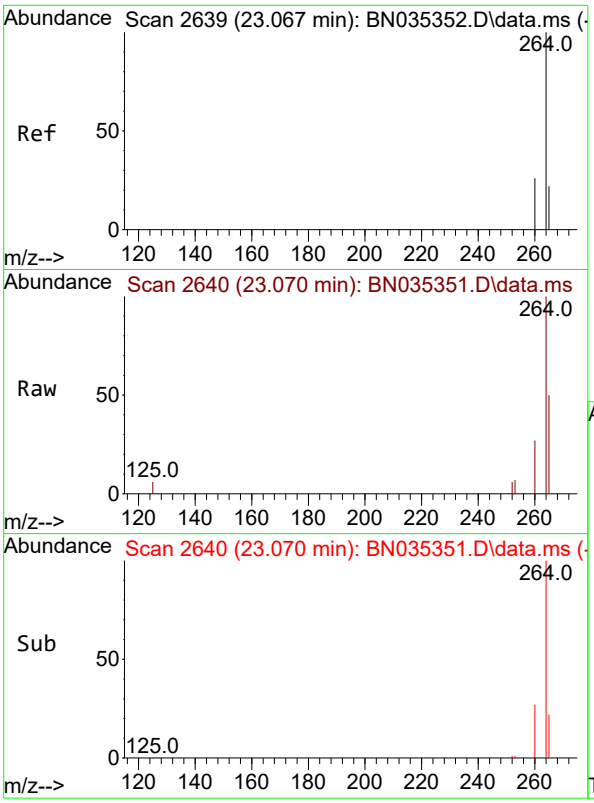


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.153 ng
RT: 20.938 min Scan# 2249
Delta R.T. 0.009 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:149 Resp: 2779

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.2	33.4
279	4.8	2.7	4.1#



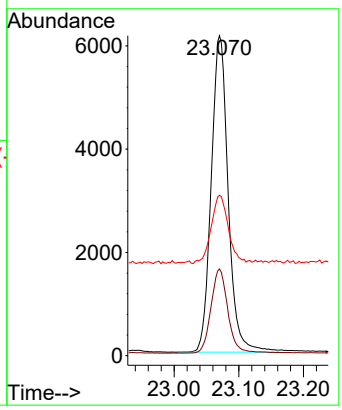


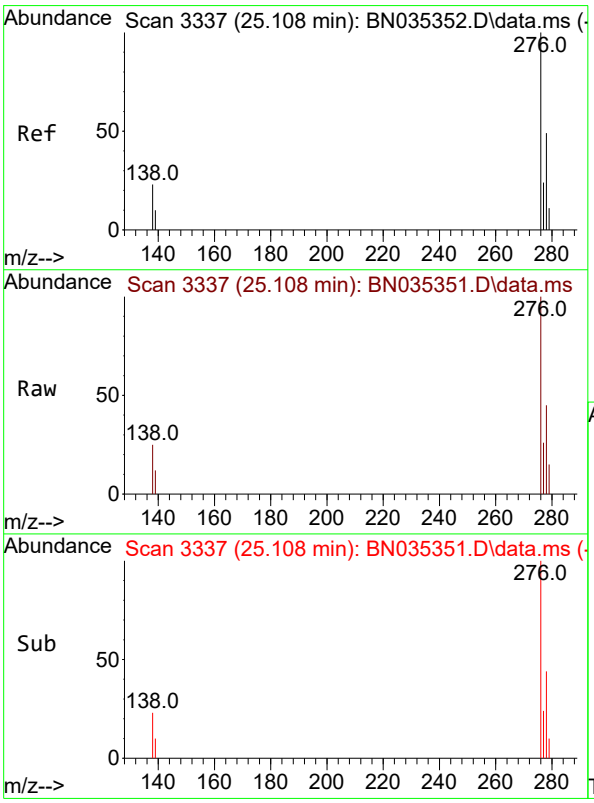
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 11158

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.4	32.2
265	50.2	40.2	60.4

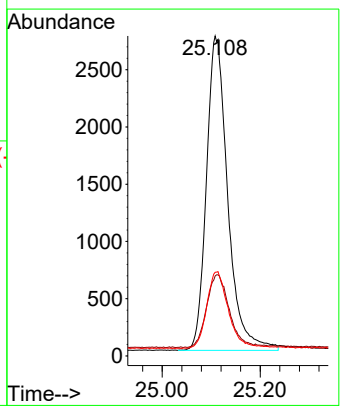


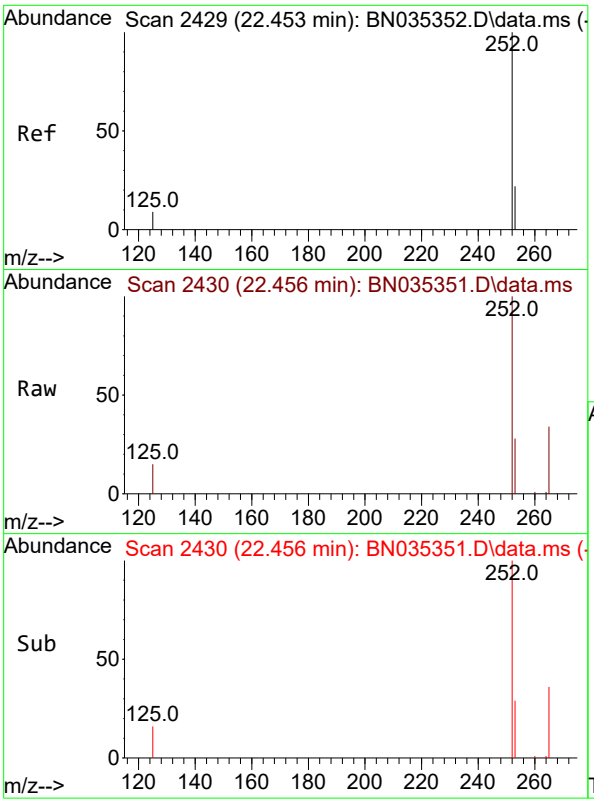


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 ng
RT: 25.108 min Scan# 3337
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:276 Resp: 8305

Ion	Ratio	Lower	Upper
276	100		
138	24.3	19.4	29.0
277	24.7	19.8	29.6



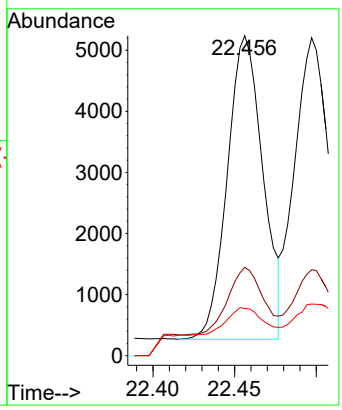


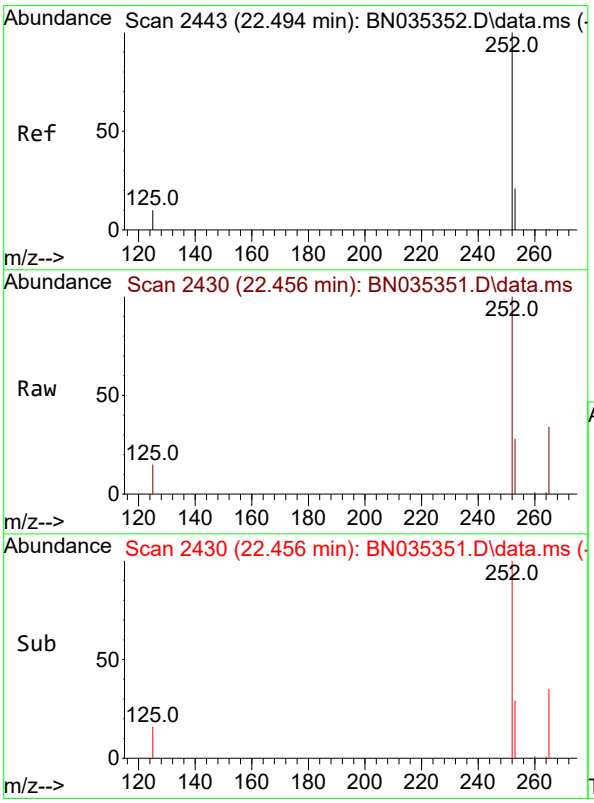
#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.6	29.4
125	14.8	9.6	14.4#

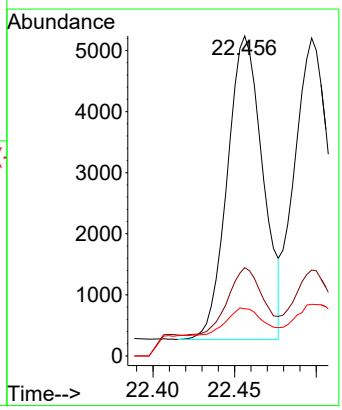


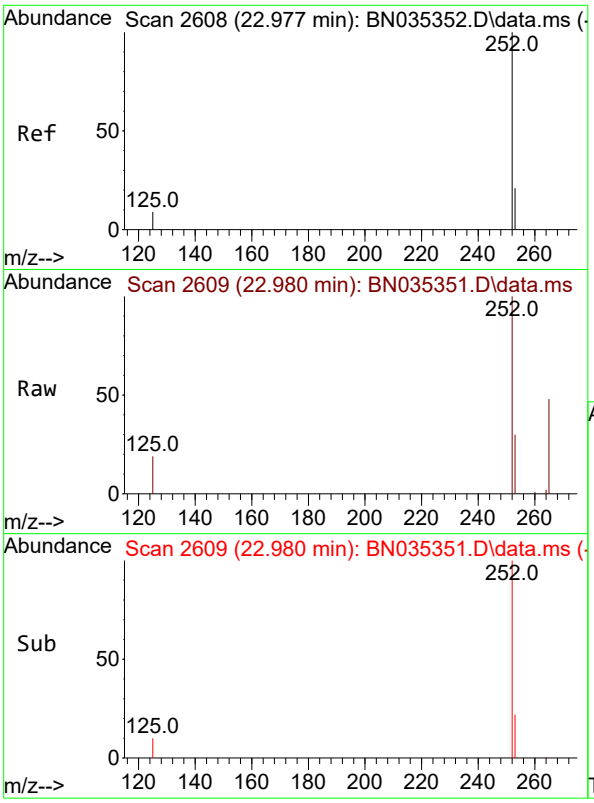


#38
Benzo(k)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.038 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:252 Resp: 7522

Ion	Ratio	Lower	Upper
252	100		
253	27.6	19.5	29.3
125	14.8	10.2	15.4



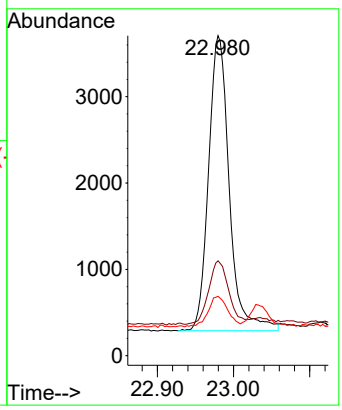


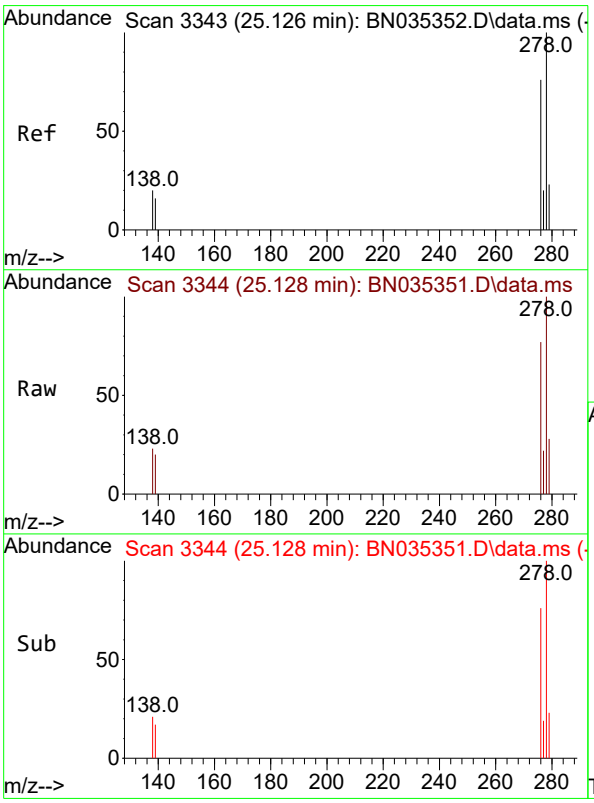
#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 6450

Ion	Ratio	Lower	Upper
252	100		
253	29.7	20.2	30.4
125	18.5	10.9	16.3#

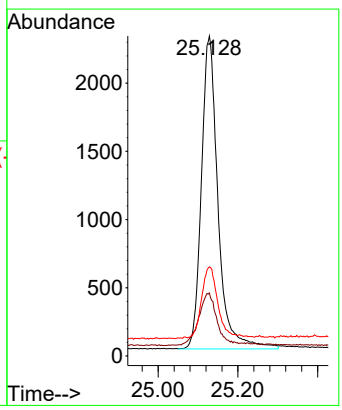


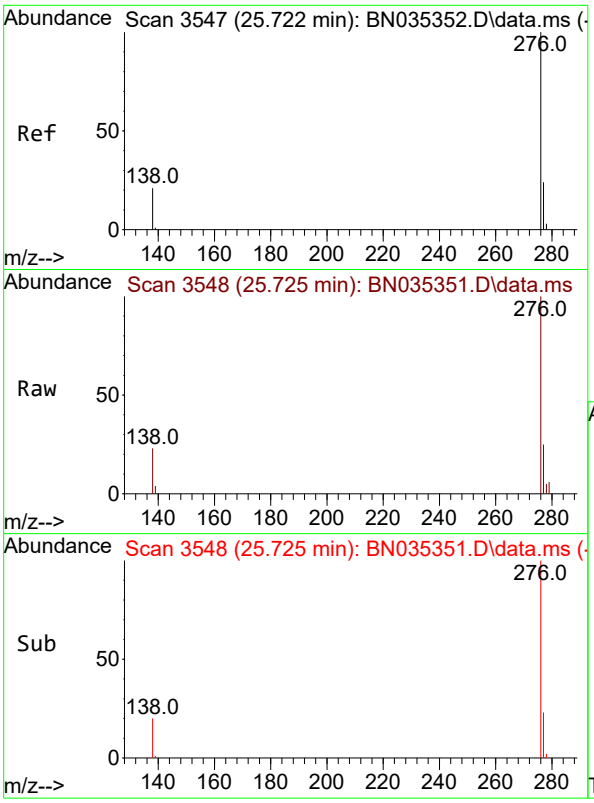


#40
Dibenzo(a,h)anthracene
Concen: 0.188 ng
RT: 25.128 min Scan# 3344
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Tgt Ion:278 Resp: 6620

Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.2	21.4
279	27.9	20.5	30.7



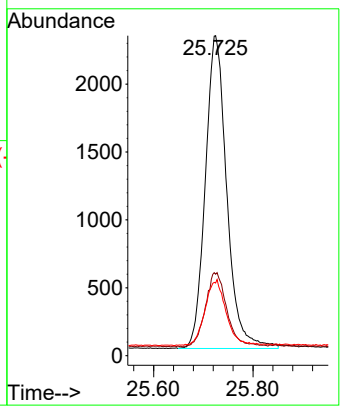


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 6908

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng		0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng		0.00
29) Chrysene-d12	20.974	240	9527	0.400	ng		0.00
35) Perylene-d12	23.067	264	10842	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	2085	0.401	ng		0.00
5) Phenol-d6	6.513	99	2444	0.375	ng		0.00
8) Nitrobenzene-d5	8.440	82	1371	0.301	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	3237	0.347	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	975	0.356	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	5735	0.372	ng		0.00
27) Fluoranthene-d10	18.785	212	10223	0.352	ng		0.00
31) Terphenyl-d14	19.412	244	7533	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	771	0.414	ng		100
3) n-Nitrosodimethylamine	3.292	42	668	0.385	ng		100
6) bis(2-Chloroethyl)ether	6.759	93	2032	0.415	ng		100
9) Naphthalene	10.105	128	5475	0.401	ng		100
10) Hexachlorobutadiene	10.404	225	1292	0.323	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3867	0.384	ng		100
16) Acenaphthylene	13.679	152	6058	0.373	ng		100
17) Acenaphthene	14.031	154	4125	0.388	ng		100
18) Fluorene	15.026	166	5863	0.375	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	337	0.171	ng		100
21) 4-Bromophenyl-phenylether	15.941	248	2146	0.355	ng		100
22) Hexachlorobenzene	16.040	284	2590	0.413	ng		100
23) Atrazine	16.227	200	1461	0.269	ng		100
24) Pentachlorophenol	16.400	266	906	0.309	ng		87
25) Phenanthrene	16.773	178	10127	0.405	ng		100
26) Anthracene	16.860	178	8921	0.389	ng		100
28) Fluoranthene	18.817	202	13438	0.391	ng		100
30) Pyrene	19.179	202	14053	0.443	ng		100
32) Benzo(a)anthracene	20.956	228	12908	0.389	ng		100
33) Chrysene	21.009	228	13729	0.418	ng		100
34) Bis(2-ethylhexyl)phtha...	20.929	149	4912	0.282	ng		100
36) Indeno(1,2,3-cd)pyrene	25.108	276	16615	0.384	ng		100
37) Benzo(b)fluoranthene	22.453	252	14235	0.390	ng		100
38) Benzo(k)fluoranthene	22.494	252	15199	0.416	ng		100
39) Benzo(a)pyrene	22.977	252	12425	0.387	ng		100
40) Dibenzo(a,h)anthracene	25.126	278	12948	0.378	ng		100
41) Benzo(g,h,i)perylene	25.722	276	13529	0.371	ng		100

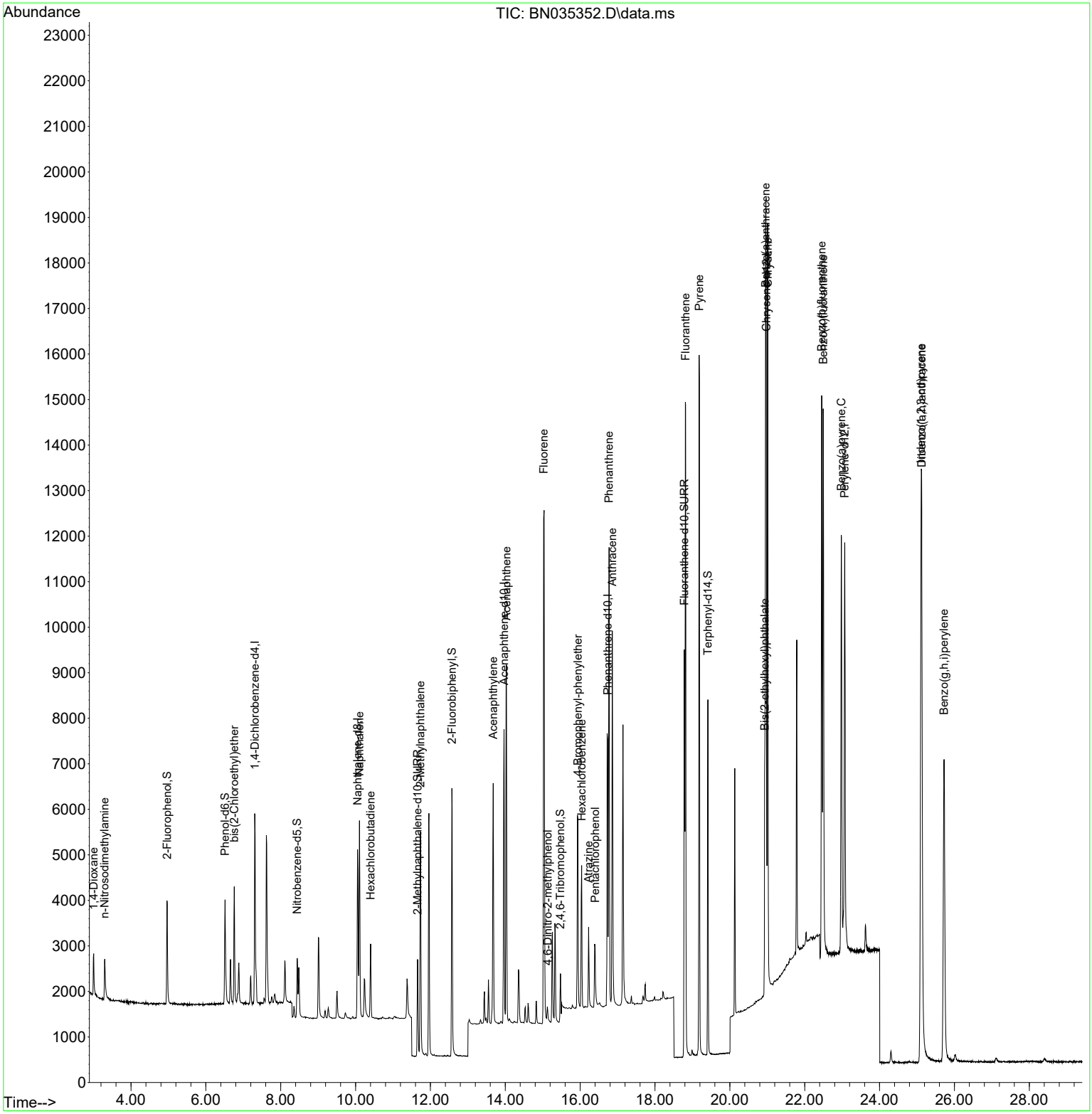
(#) = qualifier out of range (m) = manual integration (+) = signals summed

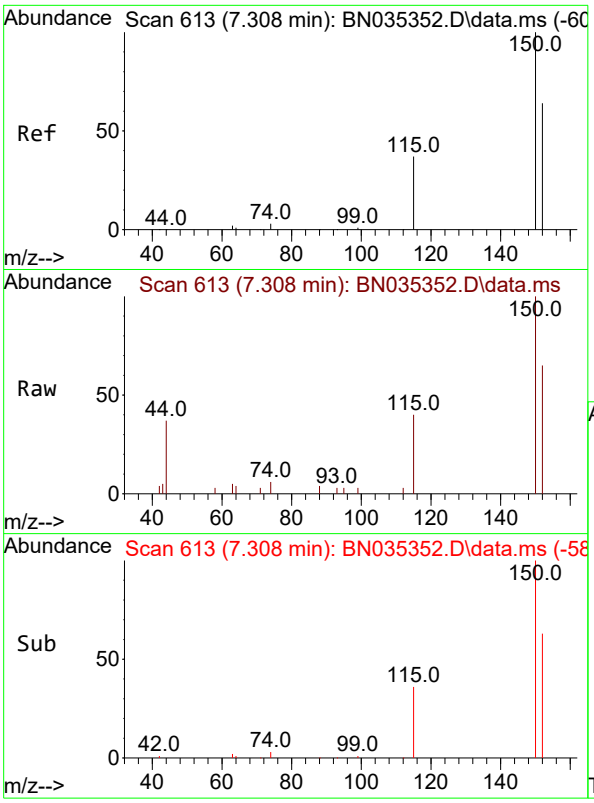
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035352.D
Acq On : 27 Nov 2024 16:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 27 22:52:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration



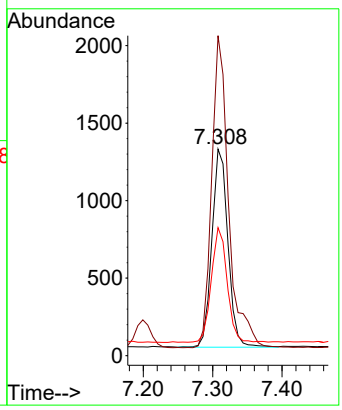


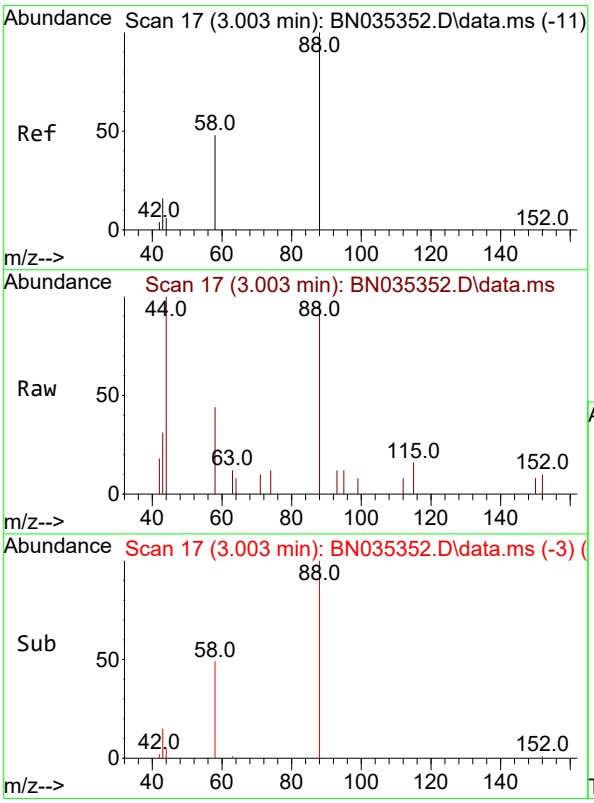
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 2048

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.0	186.0
115	62.0	49.6	74.4

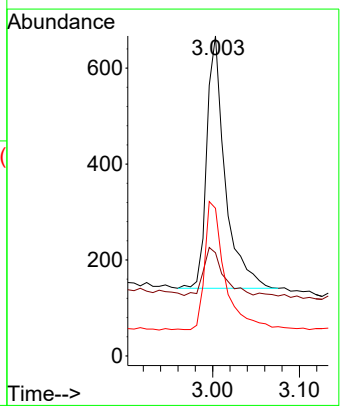


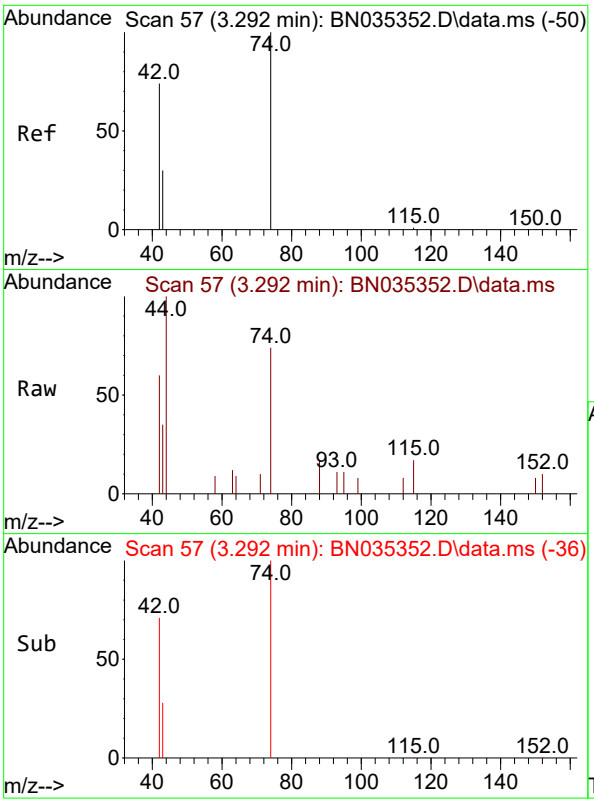


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 88 Resp: 771

Ion	Ratio	Lower	Upper
88	100		
43	21.5	17.2	25.8
58	55.6	44.5	66.7



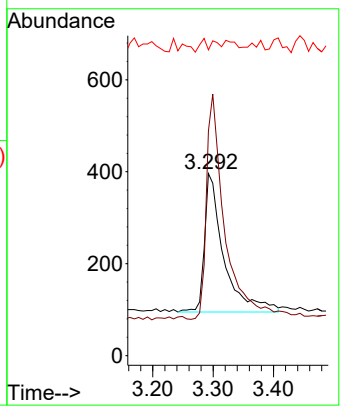


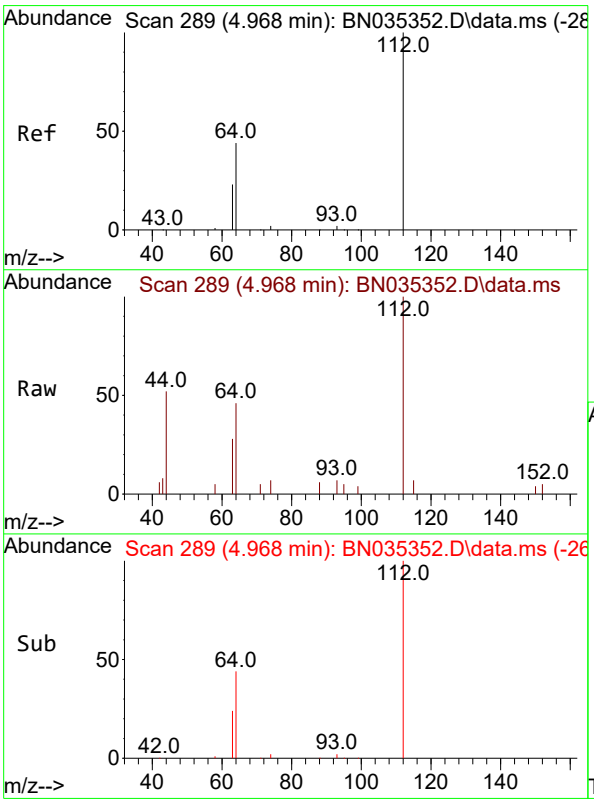
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 668

Ion	Ratio	Lower	Upper
42	100		
74	156.1	124.9	187.3
44	2.8	2.2	3.4

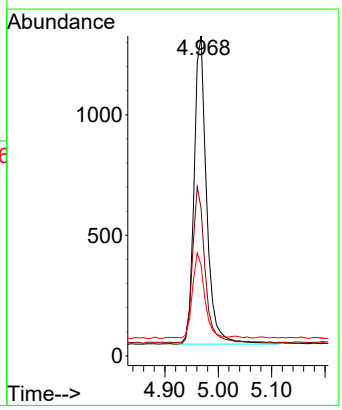


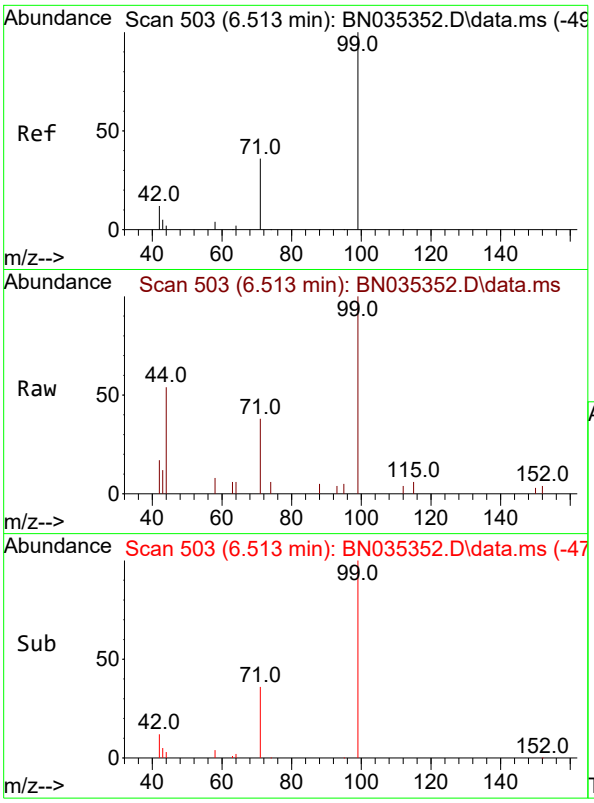


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:112 Resp: 2085

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.8	59.8
63	26.3	21.0	31.6



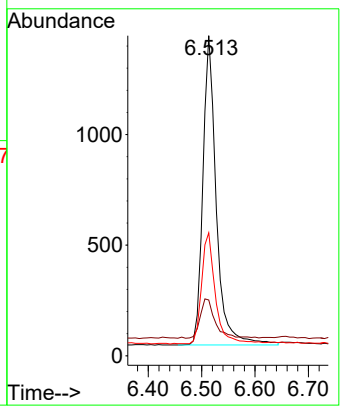


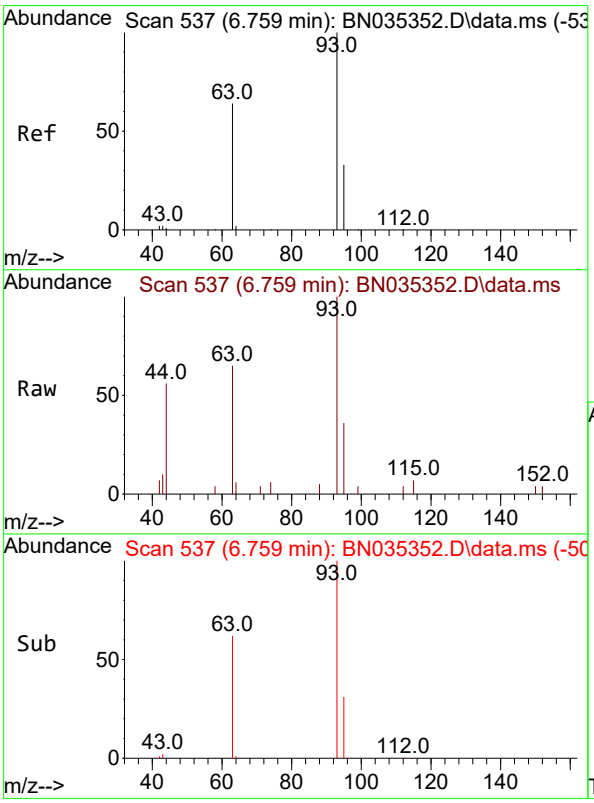
#5
Phenol-d6
Concen: 0.375 ng
RT: 6.513 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 2444

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.6	29.3	43.9

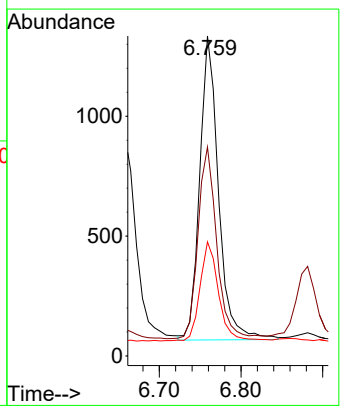


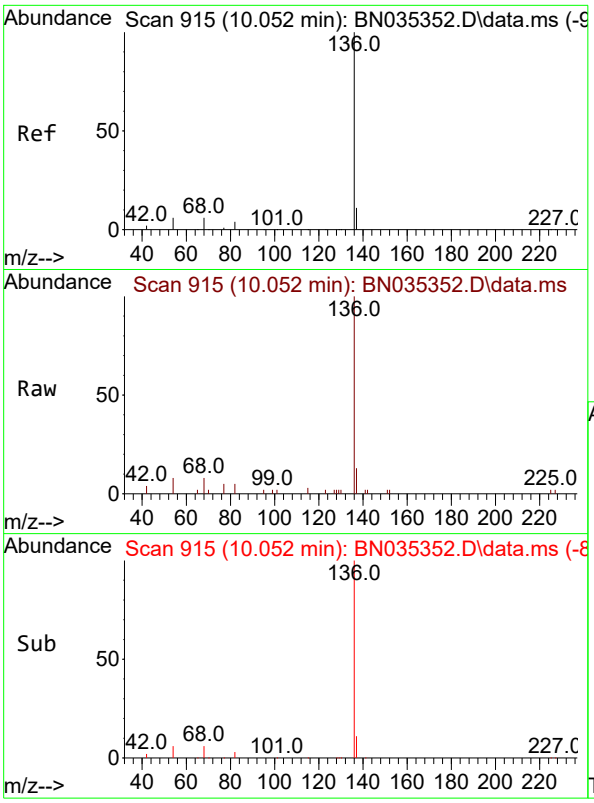


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 93 Resp: 2032

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



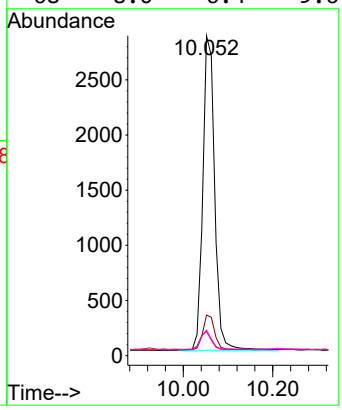


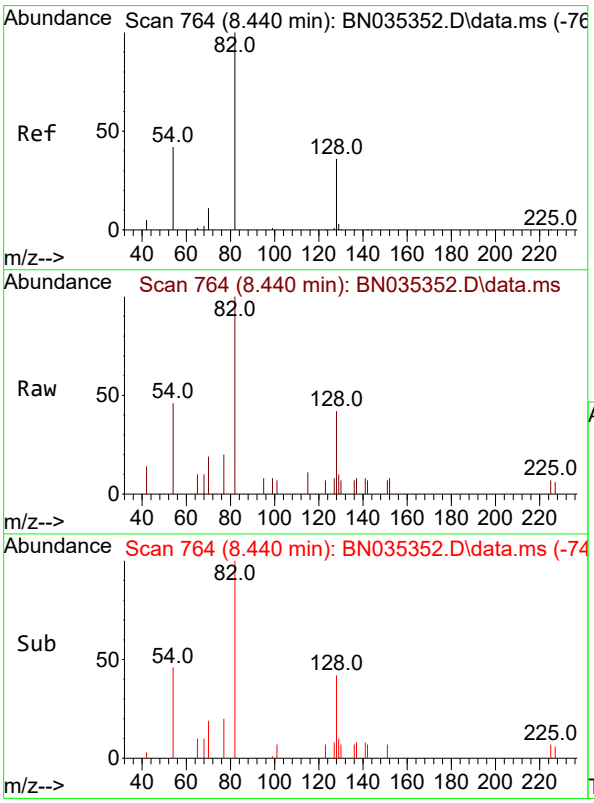
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 5229

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.6	6.1	9.1
68	8.0	6.4	9.6

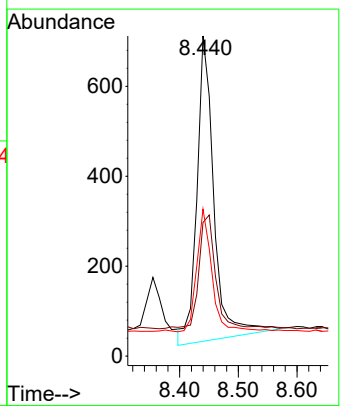


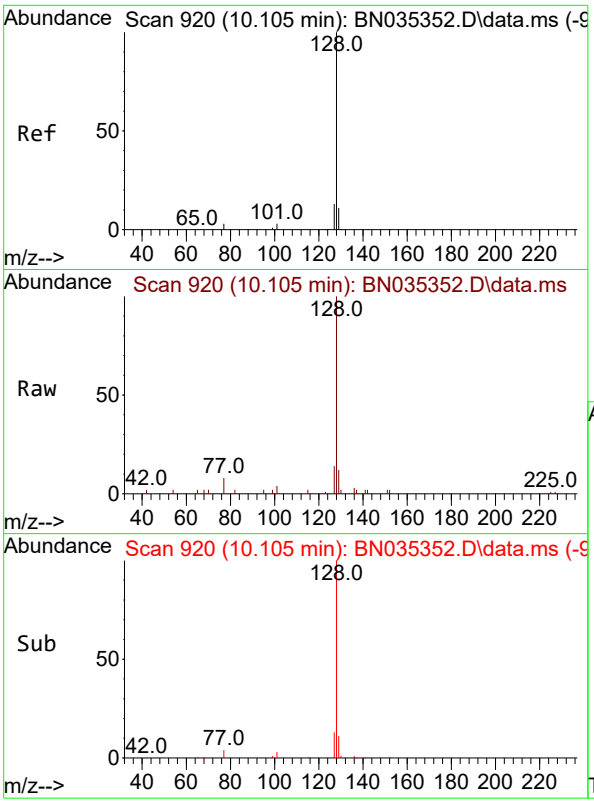


#8
Nitrobenzene-d5
Concen: 0.301 ng
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion	Ratio	Lower	Upper
82	100		
128	41.7	33.4	50.0
54	45.9	36.7	55.1



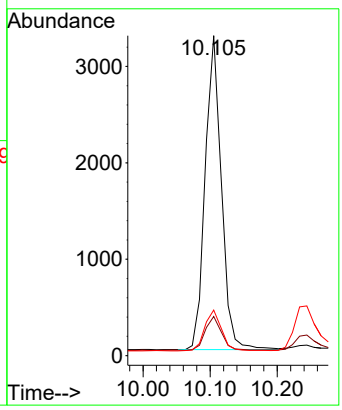


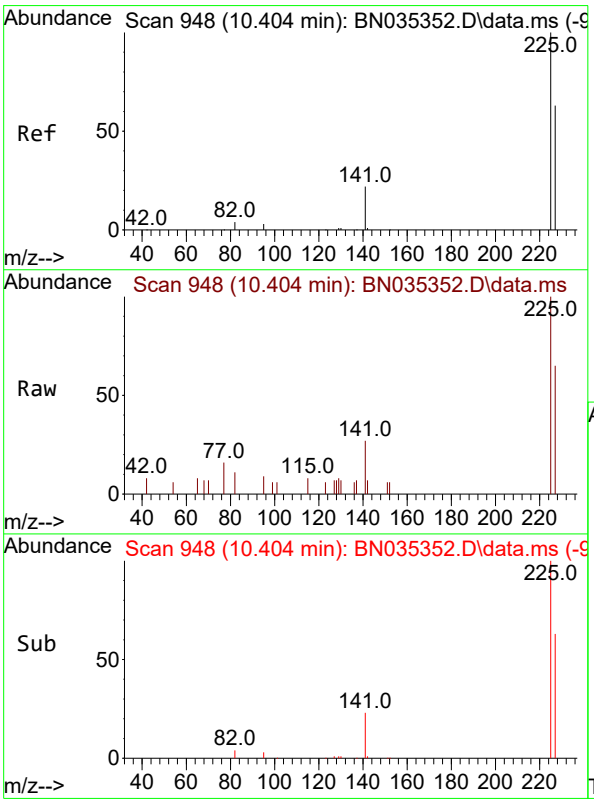
#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 5475

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

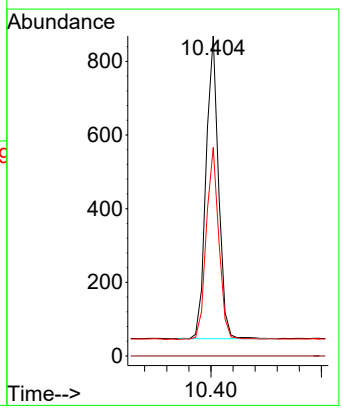


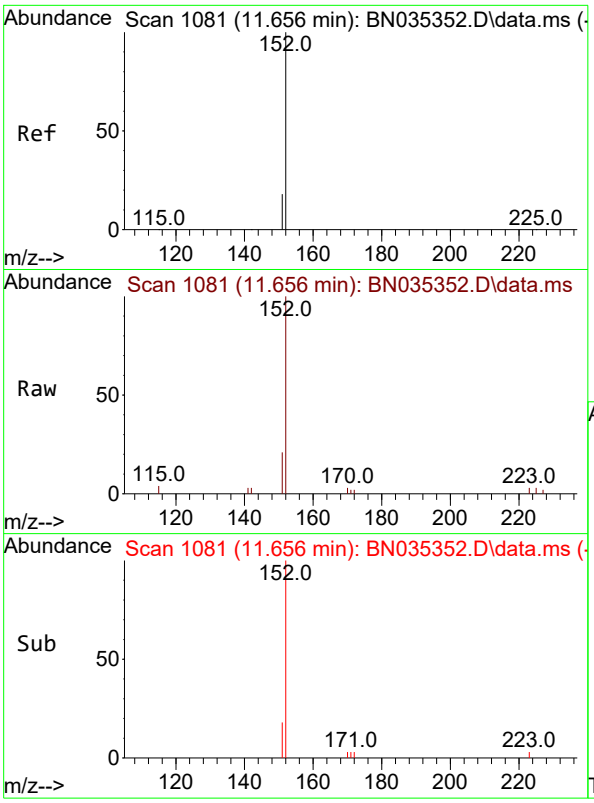


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:225 Resp: 1292

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	51.3	76.9



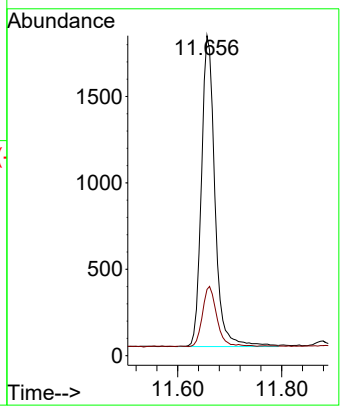


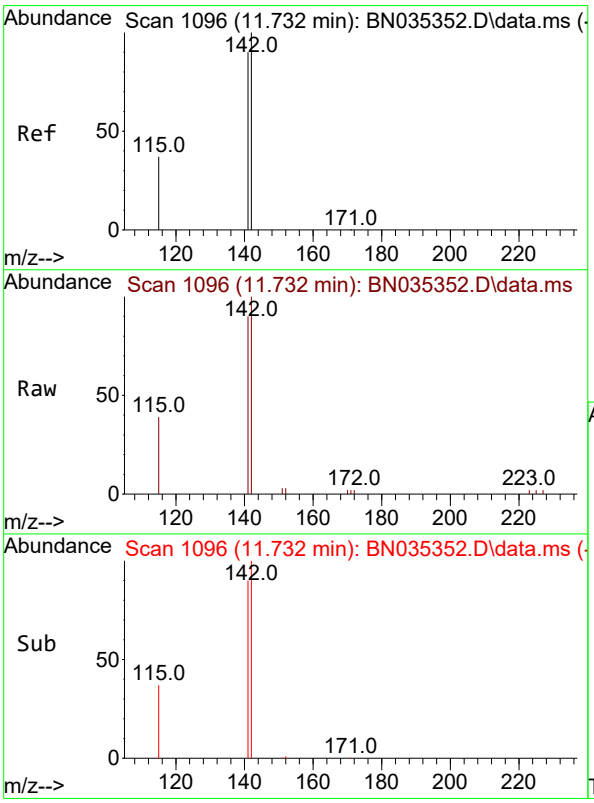
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 3237

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	25.0

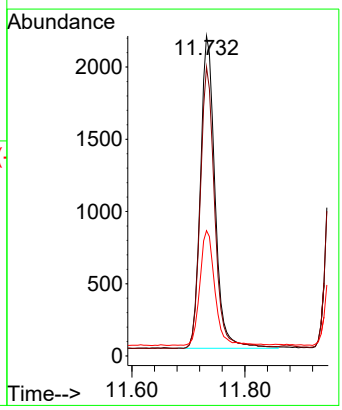


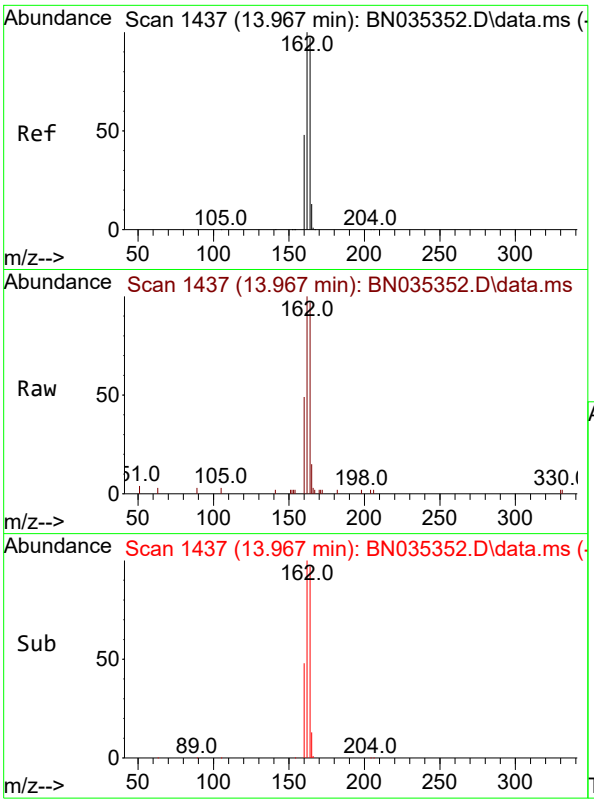


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:142 Resp: 3867

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4
115	39.2	31.4	47.0



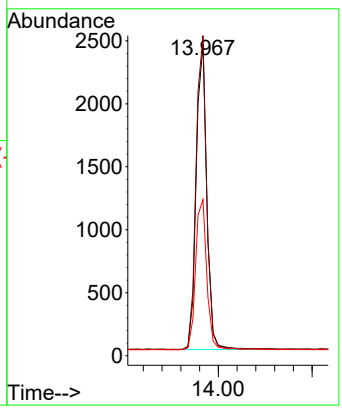


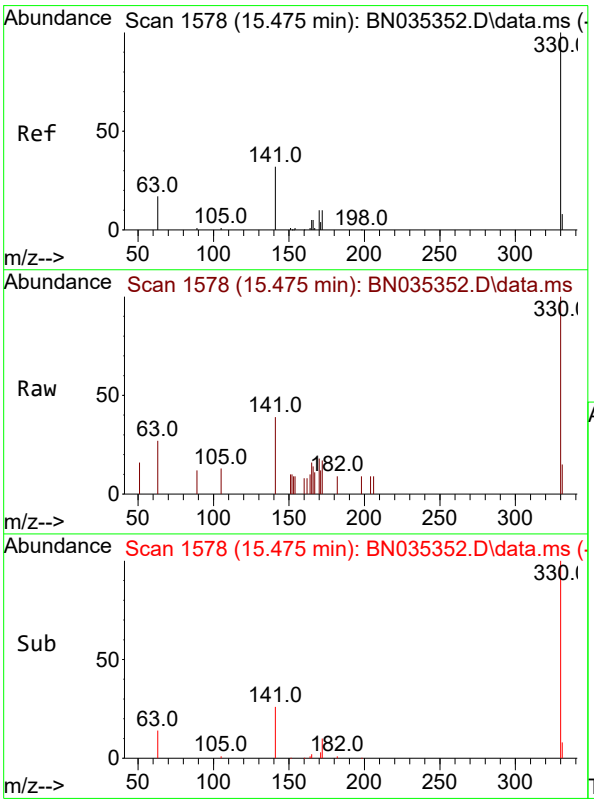
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 3799

Ion	Ratio	Lower	Upper
164	100		
162	102.7	82.2	123.2
160	50.1	40.1	60.1

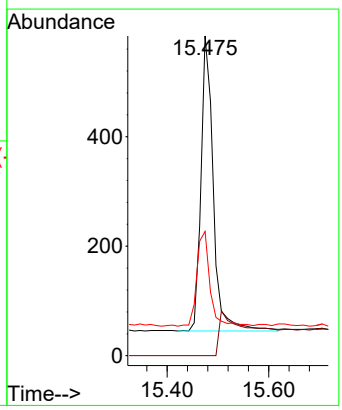


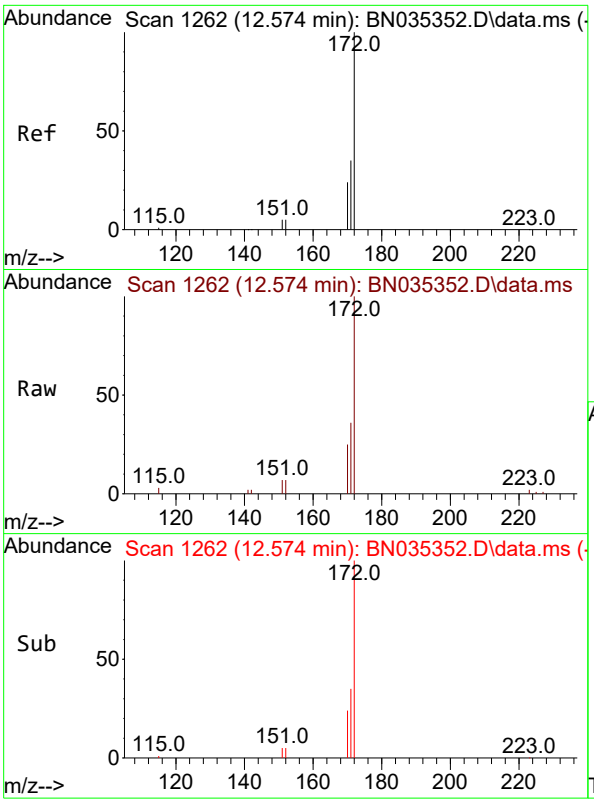


#14
2,4,6-Tribromophenol
Concen: 0.356 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.3	26.6	40.0



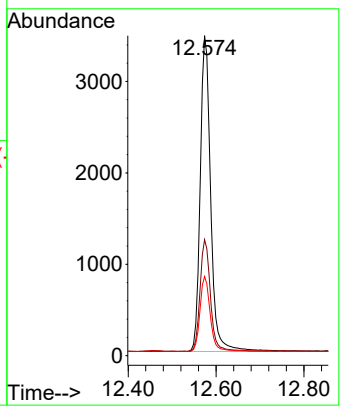


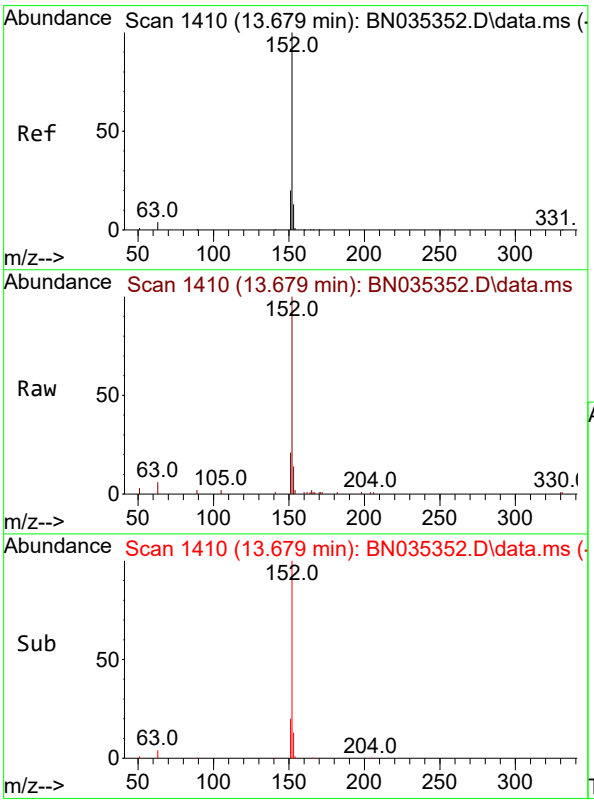
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 5735

Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.0	43.4
170	24.8	19.8	29.8

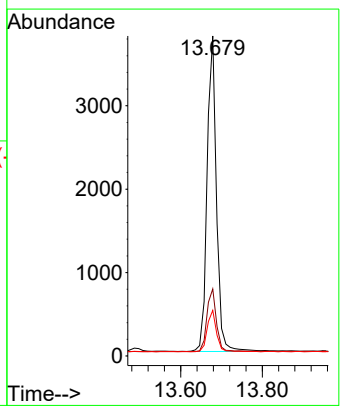


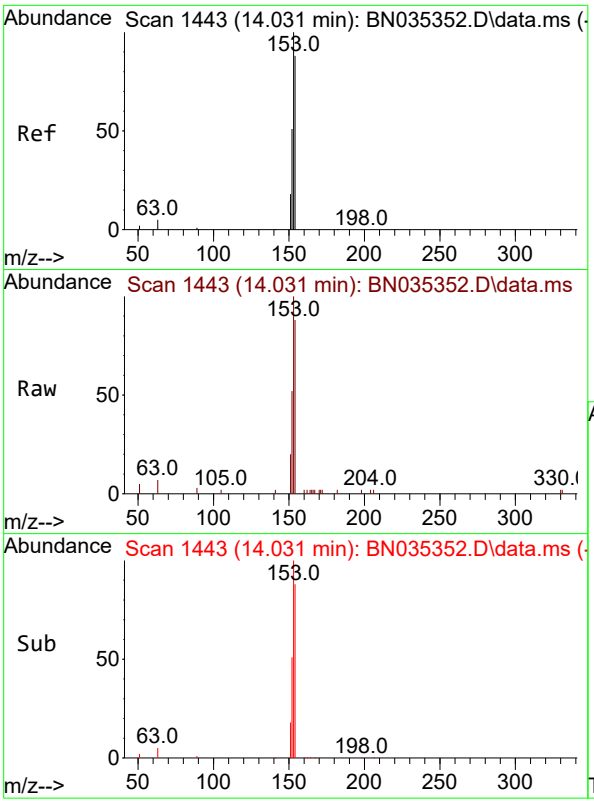


#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:152 Resp: 6058

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.0	10.4	15.6



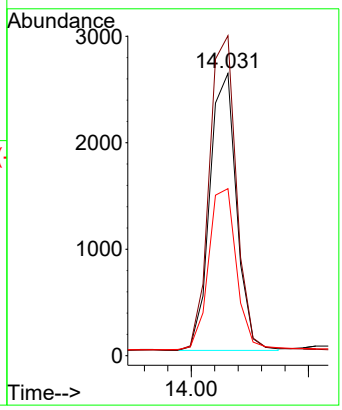


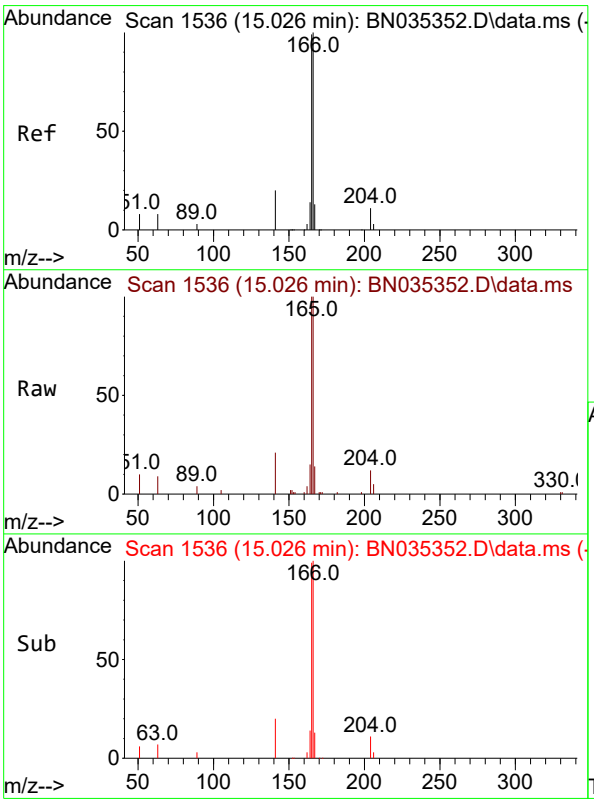
#17
Acenaphthene
Concen: 0.388 ng
RT: 14.031 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 4125

Ion	Ratio	Lower	Upper
154	100		
153	115.8	92.6	139.0
152	61.3	49.0	73.6

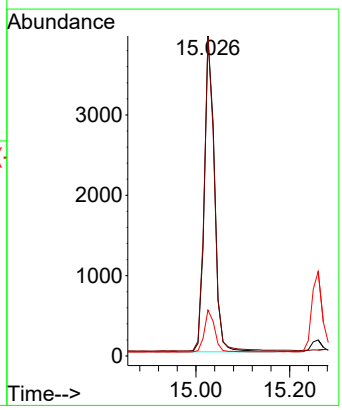


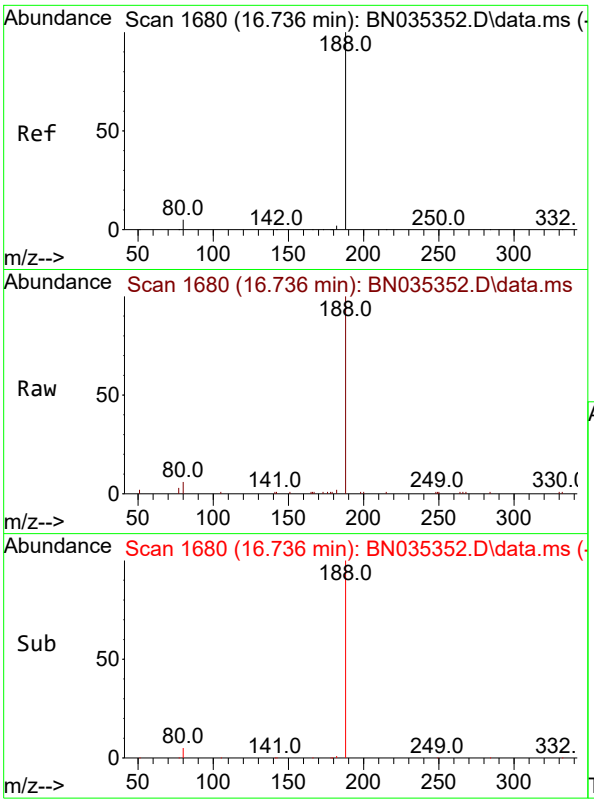


#18
Fluorene
Concen: 0.375 ng
RT: 15.026 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:166 Resp: 5863

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.5	10.8	16.2



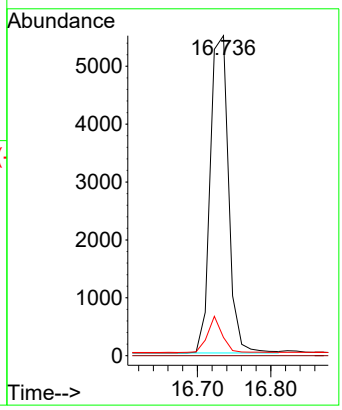


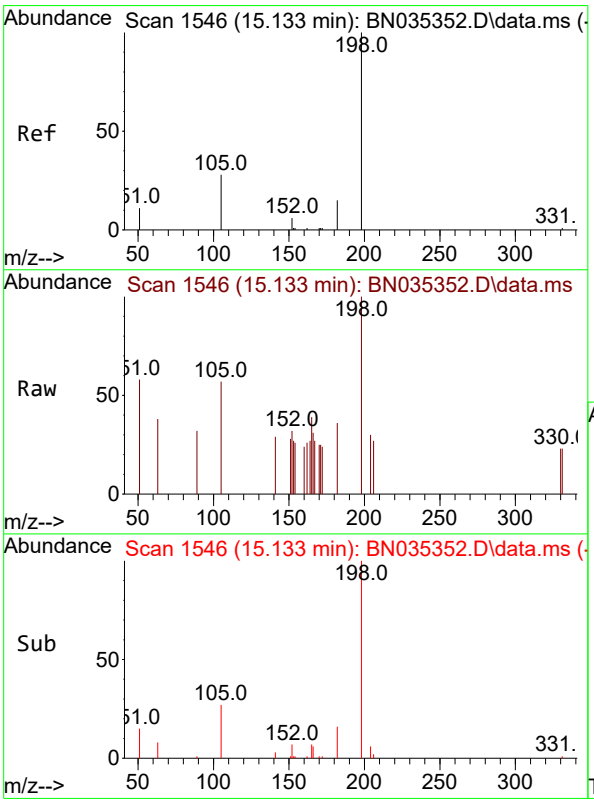
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 9490

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.7	4.6	6.8

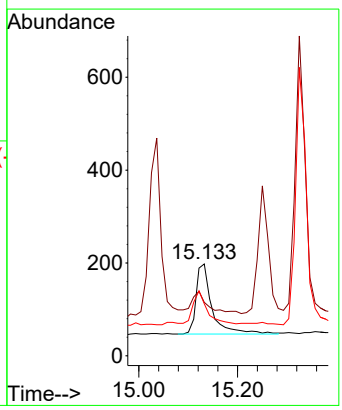


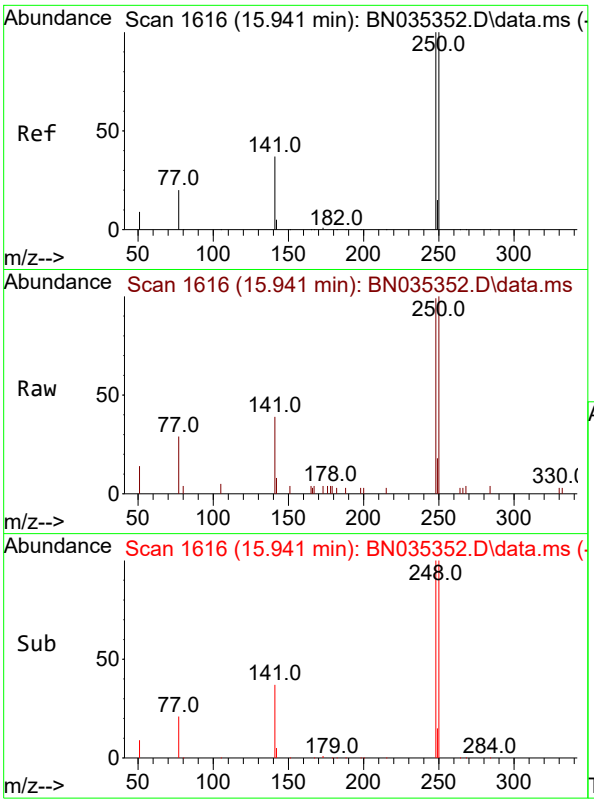


#20
4,6-Dinitro-2-methylphenol
Concen: 0.171 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:198 Resp: 337

Ion	Ratio	Lower	Upper
198	100		
51	58.1	46.5	69.7
105	56.6	45.3	67.9



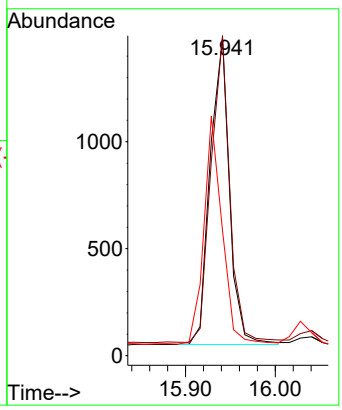


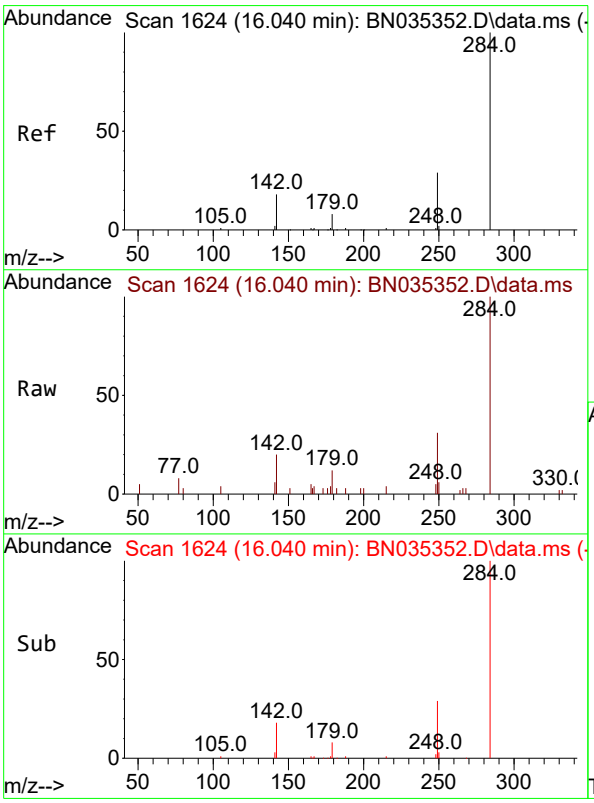
#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 2146

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	39.4	31.5	47.3

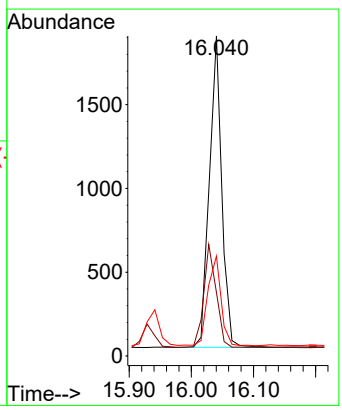


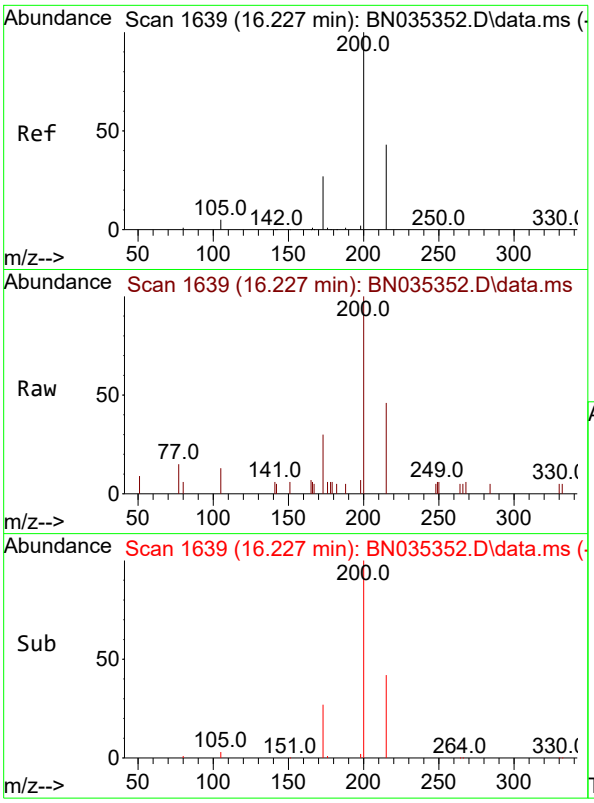


#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:284 Resp: 2590

Ion	Ratio	Lower	Upper
284	100		
142	33.4	26.7	40.1
249	30.7	24.6	36.8



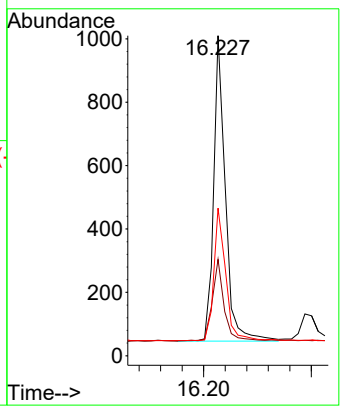


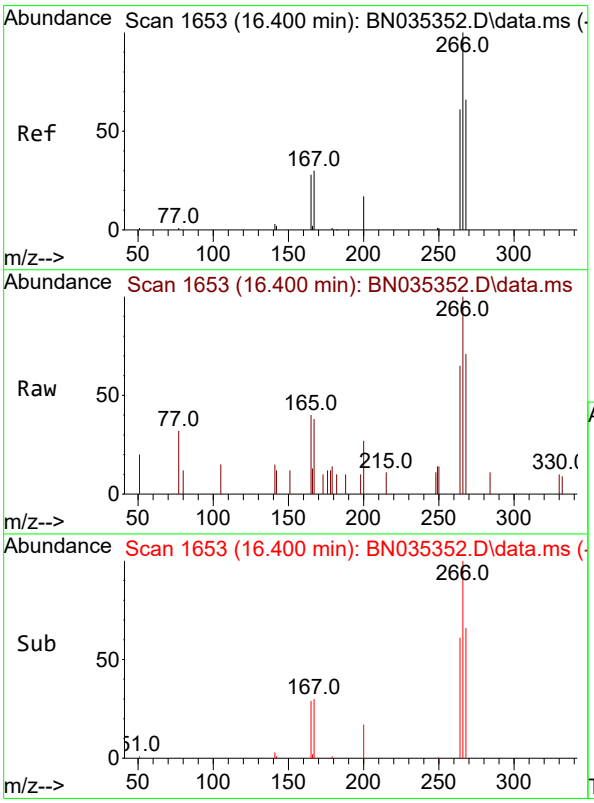
#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 1461

Ion	Ratio	Lower	Upper
200	100		
173	30.1	24.1	36.1
215	46.1	36.9	55.3

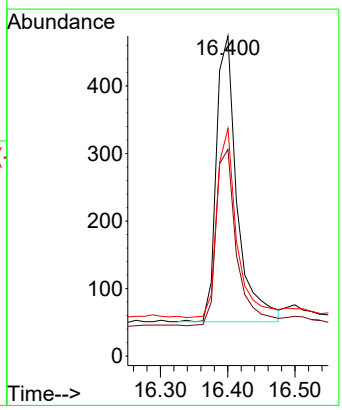


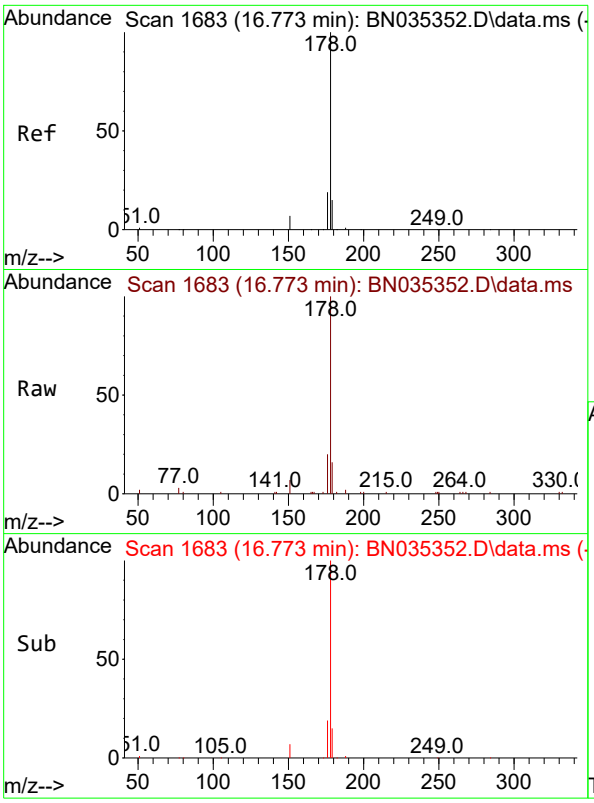


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:266 Resp: 906

Ion	Ratio	Lower	Upper
266	100		
264	62.4	42.3	63.5
268	63.8	43.3	64.9



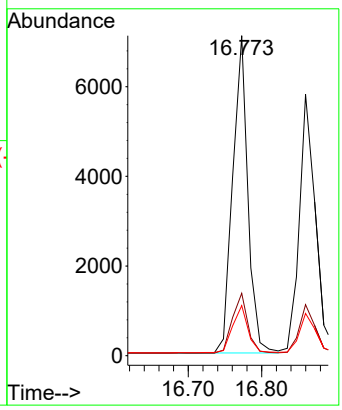


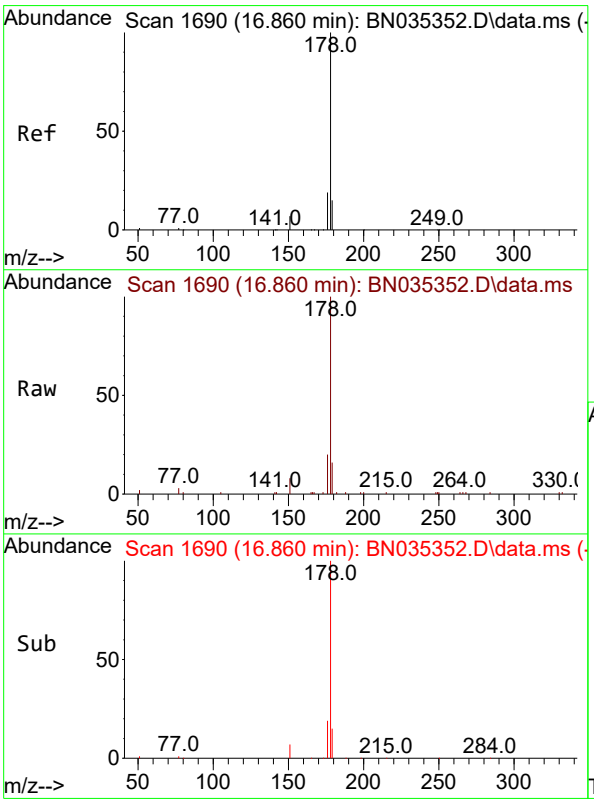
#25
Phenanthrene
Concen: 0.405 ng
RT: 16.773 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 10127

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.4	12.3	18.5

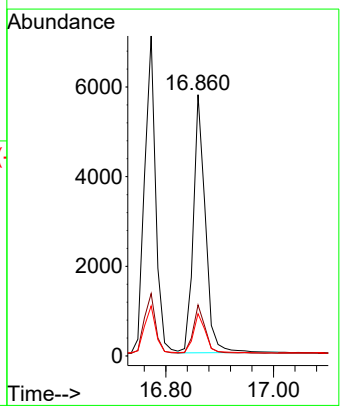


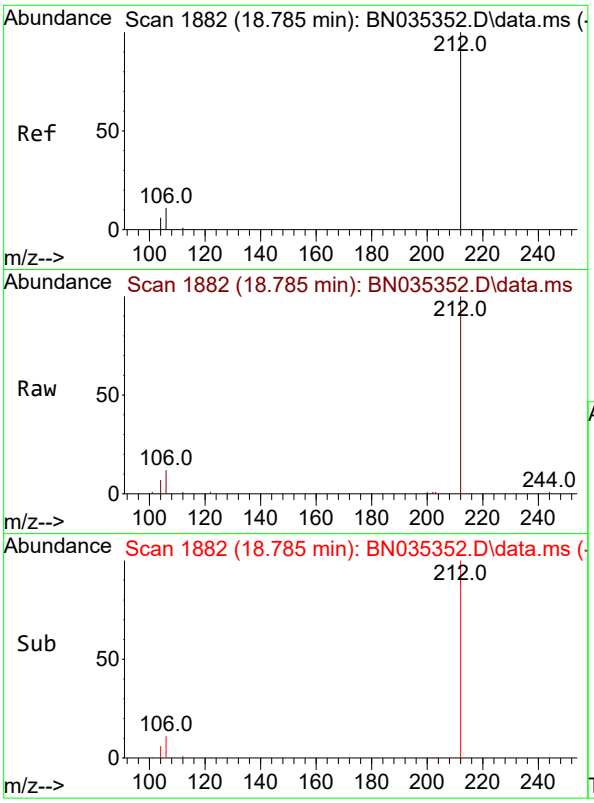


#26
Anthracene
Concen: 0.389 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:178 Resp: 8921

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.7	12.6	18.8



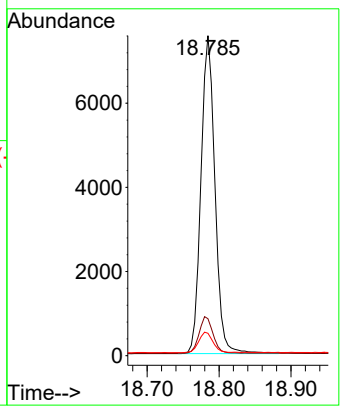


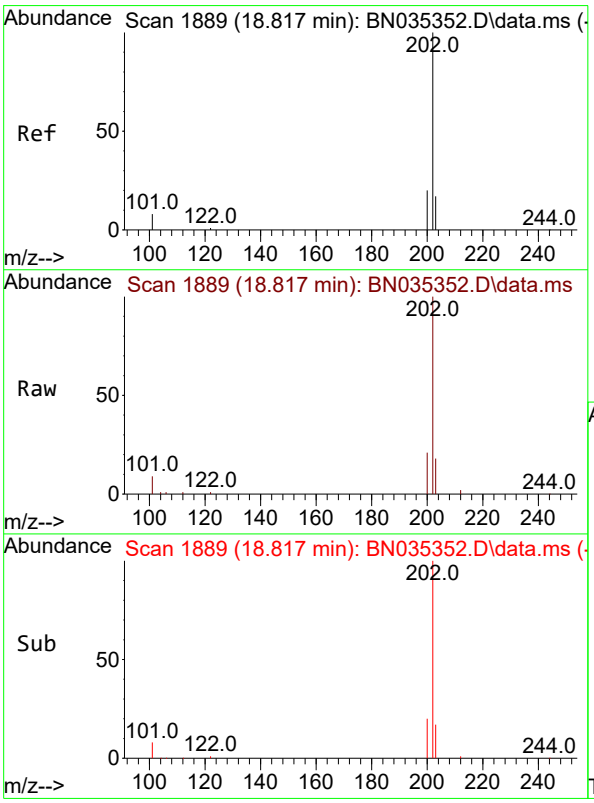
#27
Fluoranthene-d10
Concen: 0.352 ng
RT: 18.785 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 10223

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	6.6	5.3	7.9

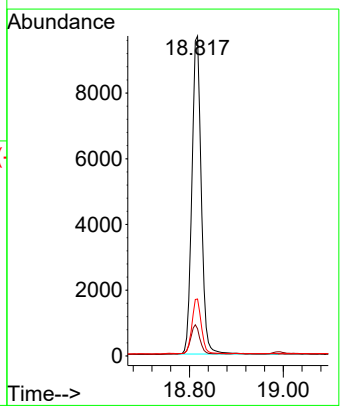


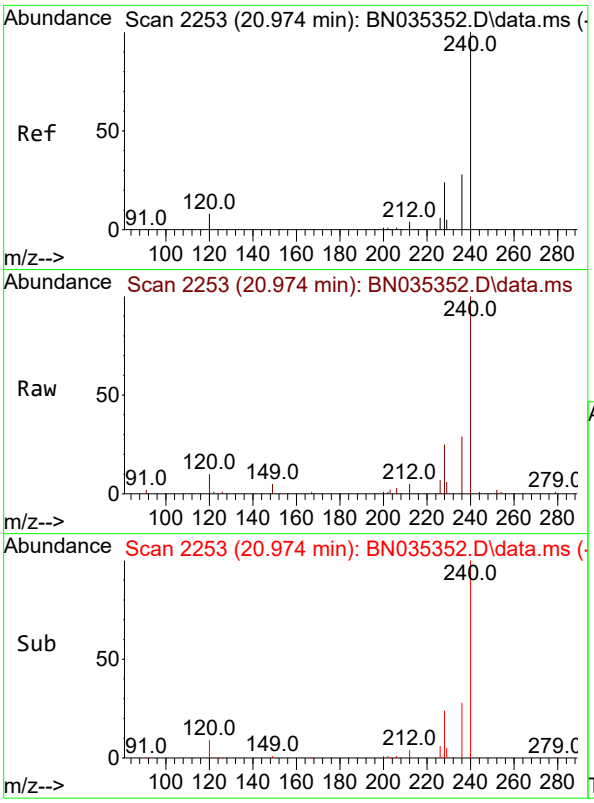


#28
Fluoranthene
Concen: 0.391 ng
RT: 18.817 min Scan# 1889
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 13438

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



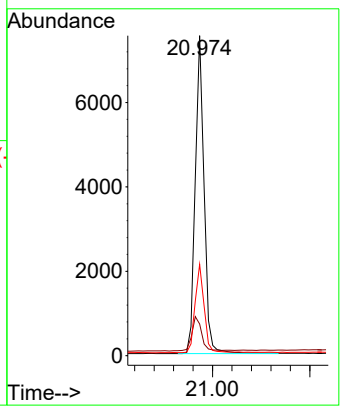


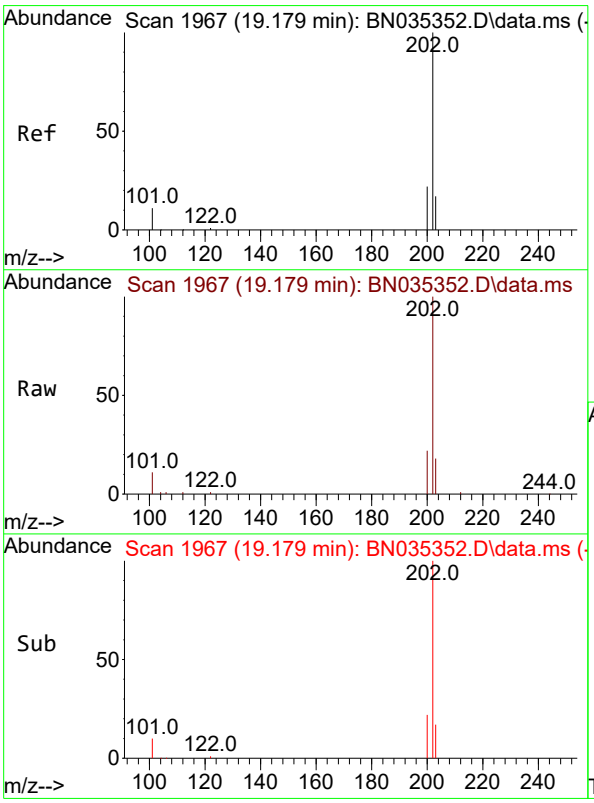
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 9527

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	28.6	22.9	34.3

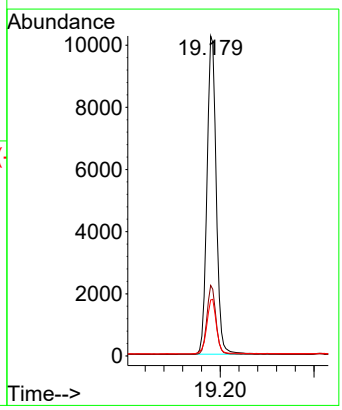


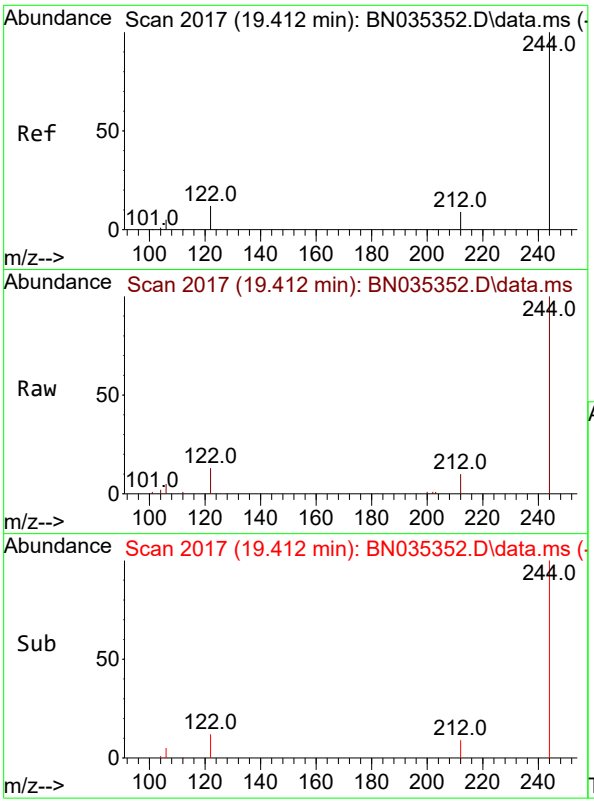


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:202 Resp: 14053

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



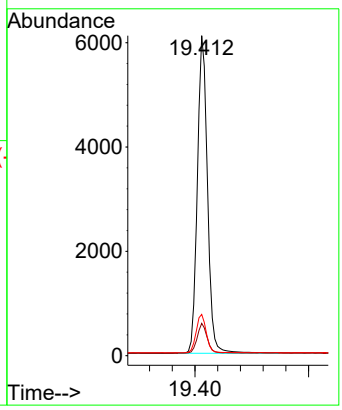


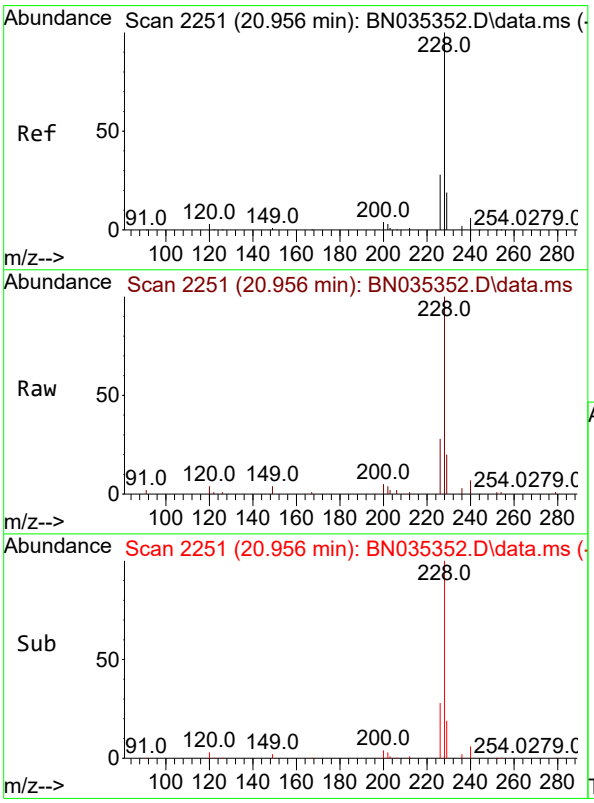
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 7533

Ion	Ratio	Lower	Upper
244	100		
212	10.1	8.1	12.1
122	12.9	10.3	15.5

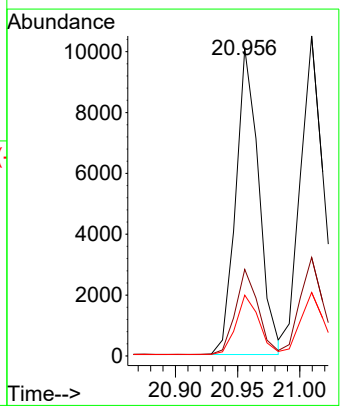


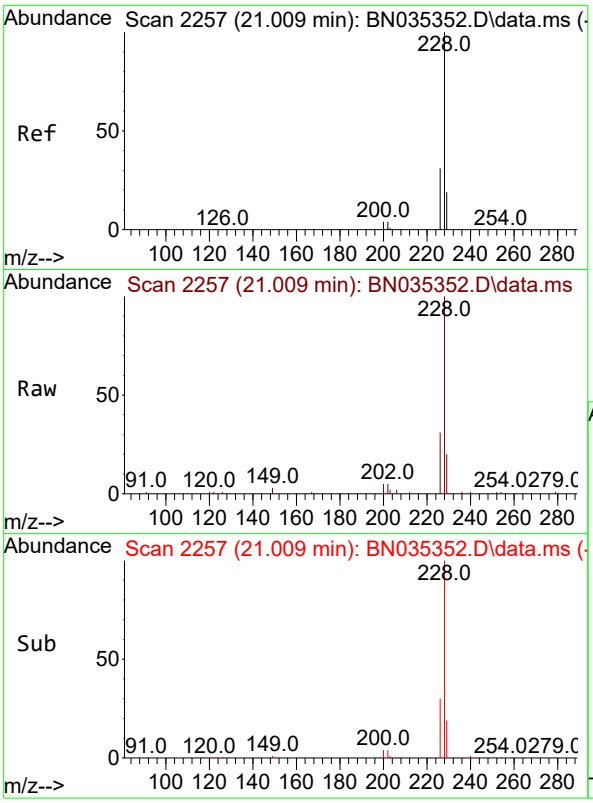


#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:228 Resp: 12908

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.5	33.7
229	19.8	15.8	23.8



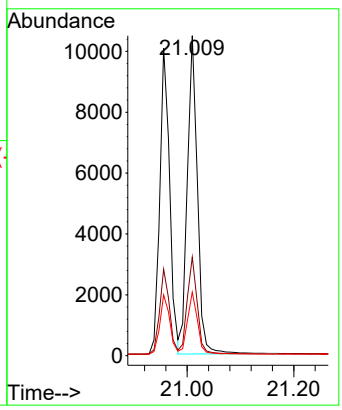


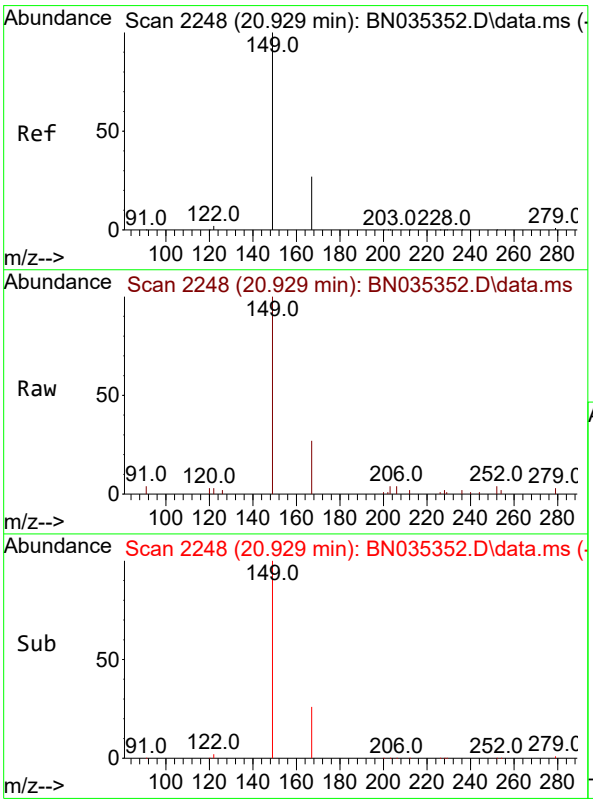
#33
Chrysene
Concen: 0.418 ng
RT: 21.009 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 13729

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.9	15.9	23.9

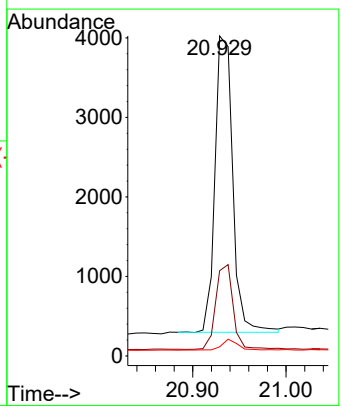


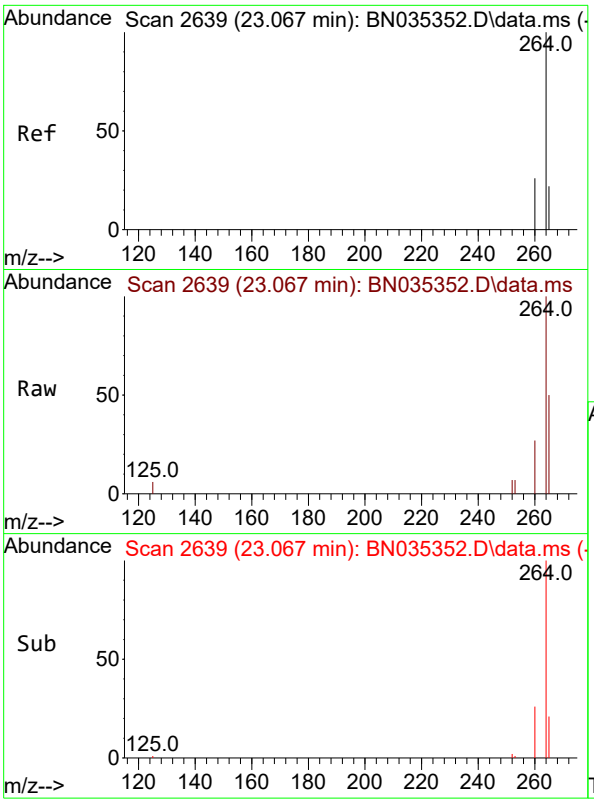


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:149 Resp: 4912

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.4	2.7	4.1



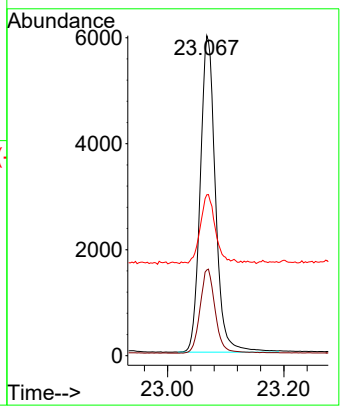


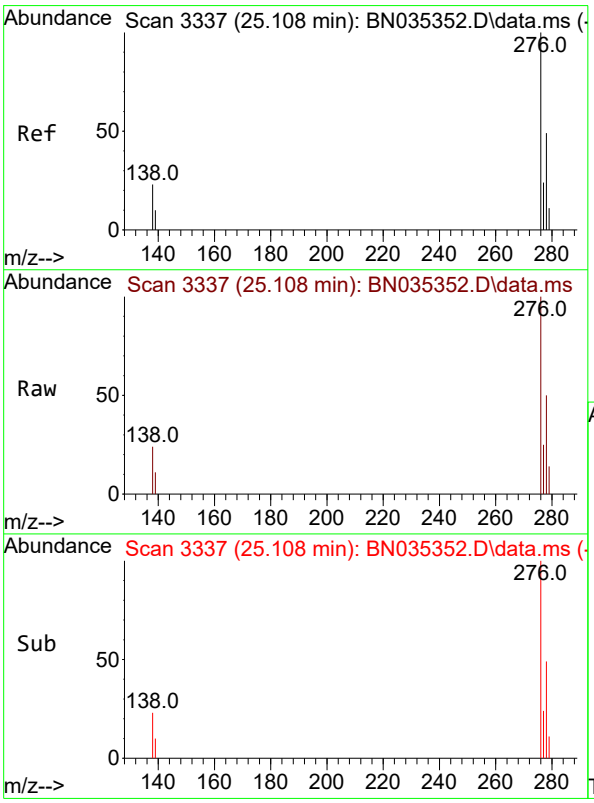
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 10842

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	50.3	40.2	60.4

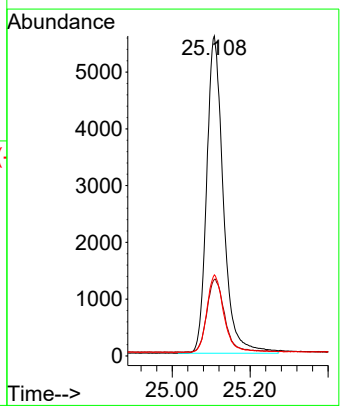


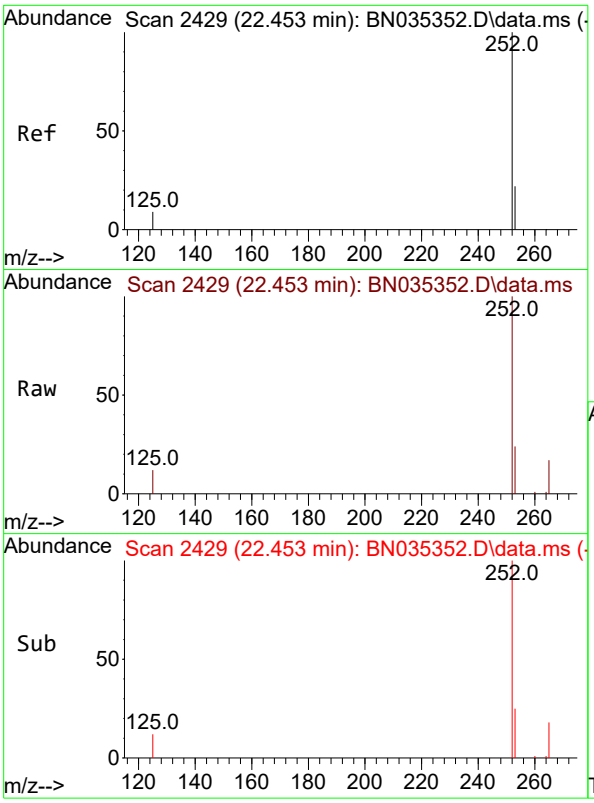


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:276 Resp: 16615

Ion	Ratio	Lower	Upper
276	100		
138	24.2	19.4	29.0
277	24.7	19.8	29.6



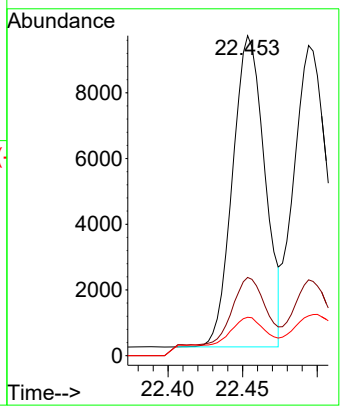


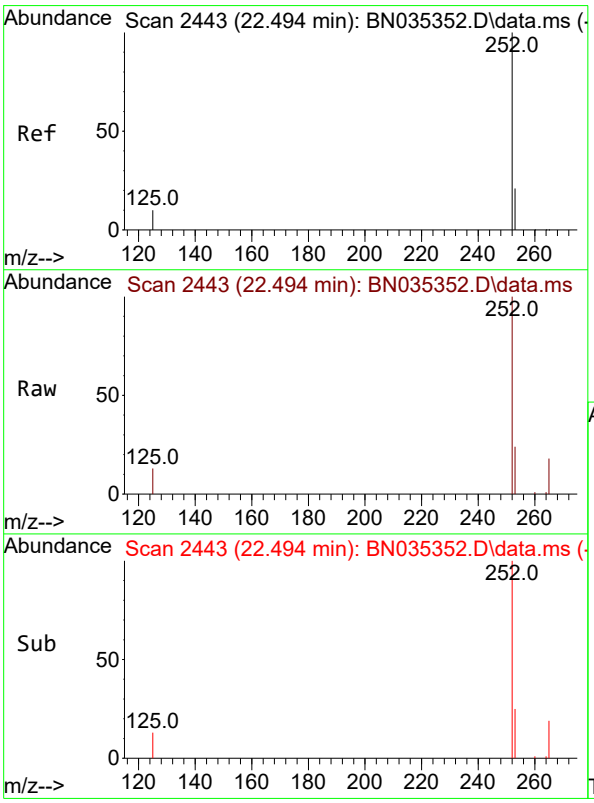
#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 14235

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	12.0	9.6	14.4

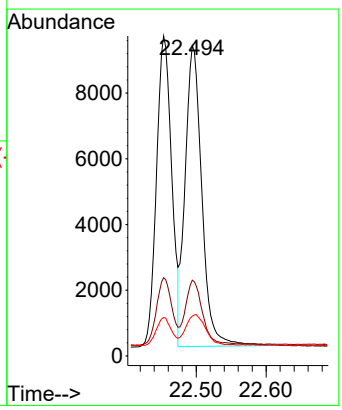


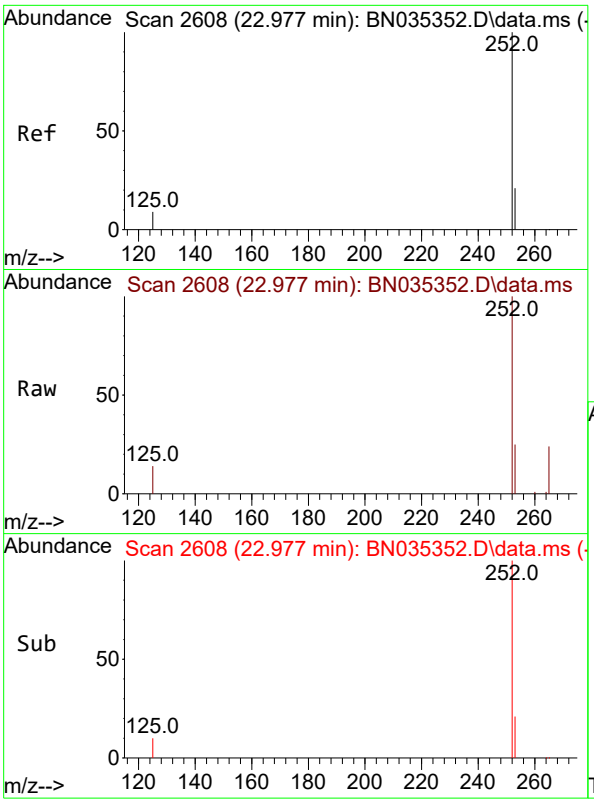


#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:252 Resp: 15199

Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.5	29.3
125	12.8	10.2	15.4



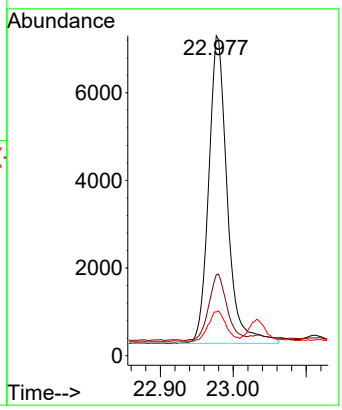


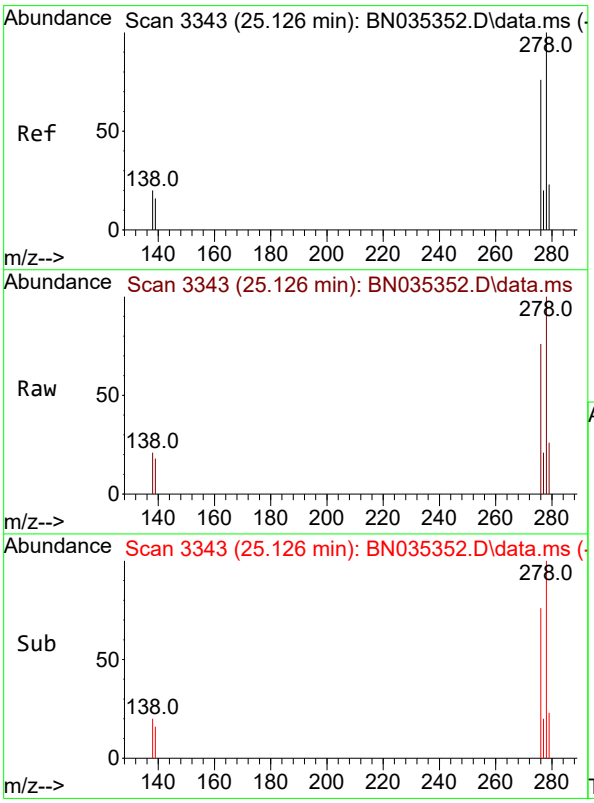
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.977 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 12425

Ion	Ratio	Lower	Upper
252	100		
253	25.3	20.2	30.4
125	13.6	10.9	16.3

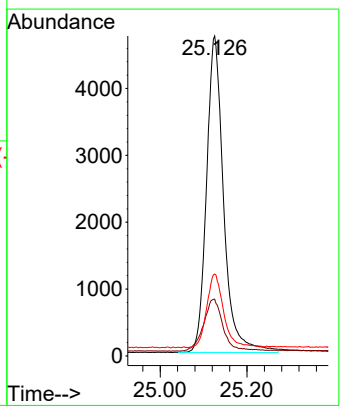


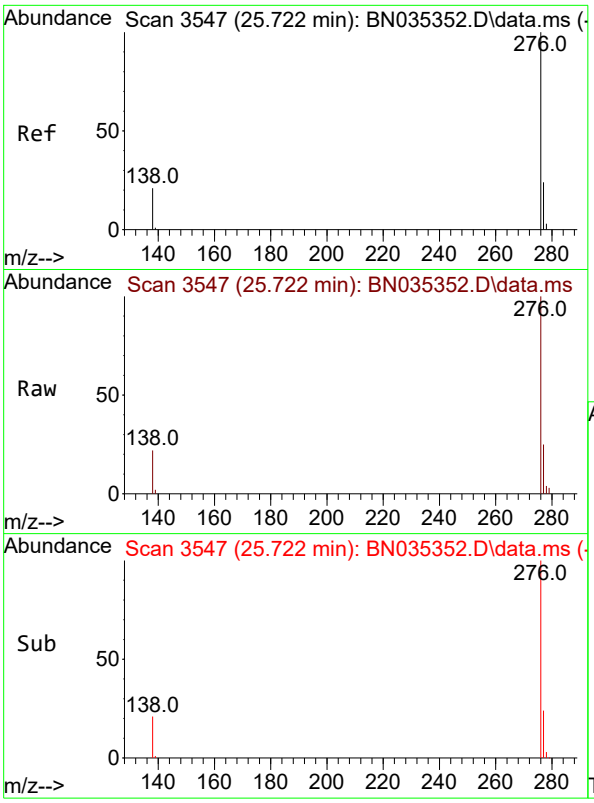


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.126 min Scan# 3343
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Tgt Ion:278 Resp: 12948

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.2	21.4
279	25.6	20.5	30.7



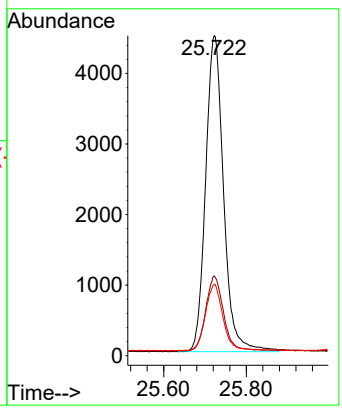


#41
Benzo(g,h,i)perylene
Concen: 0.371 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.9	29.9
138	22.3	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng		0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng		0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng		0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng		#-0.01
29) Chrysene-d12	20.974	240	7576	0.400	ng		0.00
35) Perylene-d12	23.067	264	8338	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.968	112	1280	0.332	ng		0.00
5) Phenol-d6	6.513	99	1437	0.310	ng		0.00
8) Nitrobenzene-d5	8.440	82	1017	0.427	ng		0.00
11) 2-Methylnaphthalene-d10	11.656	152	2565	0.420	ng		0.00
14) 2,4,6-Tribromophenol	15.475	330	617	0.302	ng		0.00
15) 2-Fluorobiphenyl	12.574	172	4647	0.427	ng		0.00
27) Fluoranthene-d10	18.785	212	8415	0.404	ng		0.00
31) Terphenyl-d14	19.412	244	6272	0.420	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.003	88	684	0.465	ng		99
3) n-Nitrosodimethylamine	3.299	42	495	0.404	ng	#	88
6) bis(2-Chloroethyl)ether	6.759	93	1676	0.430	ng		99
9) Naphthalene	10.105	128	4364	0.424	ng		99
10) Hexachlorobutadiene	10.404	225	1005	0.423	ng	#	100
12) 2-Methylnaphthalene	11.732	142	3157	0.428	ng		98
16) Acenaphthylene	13.679	152	5261	0.435	ng		100
17) Acenaphthene	14.031	154	3421	0.426	ng		99
18) Fluorene	15.026	166	4825	0.420	ng		99
20) 4,6-Dinitro-2-methylph...	15.132	198	263	0.364	ng	#	86
21) 4-Bromophenyl-phenylether	15.941	248	1742	0.405	ng		99
22) Hexachlorobenzene	16.040	284	2151	0.426	ng		99
23) Atrazine	16.227	200	1227	0.401	ng		99
24) Pentachlorophenol	16.400	266	662	0.301	ng	#	83
25) Phenanthrene	16.773	178	8509	0.421	ng		100
26) Anthracene	16.860	178	7849	0.430	ng		100
28) Fluoranthene	18.812	202	10941	0.402	ng		100
30) Pyrene	19.179	202	11476	0.410	ng		100
32) Benzo(a)anthracene	20.956	228	10934	0.413	ng		100
33) Chrysene	21.009	228	11926	0.436	ng		99
34) Bis(2-ethylhexyl)phtha...	20.929	149	4016	0.384	ng		100
36) Indeno(1,2,3-cd)pyrene	25.105	276	14433	0.443	ng		99
37) Benzo(b)fluoranthene	22.453	252	12988	0.426	ng		99
38) Benzo(k)fluoranthene	22.494	252	12669	0.422	ng		99
39) Benzo(a)pyrene	22.974	252	11094	0.442	ng		99
40) Dibenzo(a,h)anthracene	25.123	278	11141	0.433	ng		100
41) Benzo(g,h,i)perylene	25.722	276	10870	0.404	ng		99

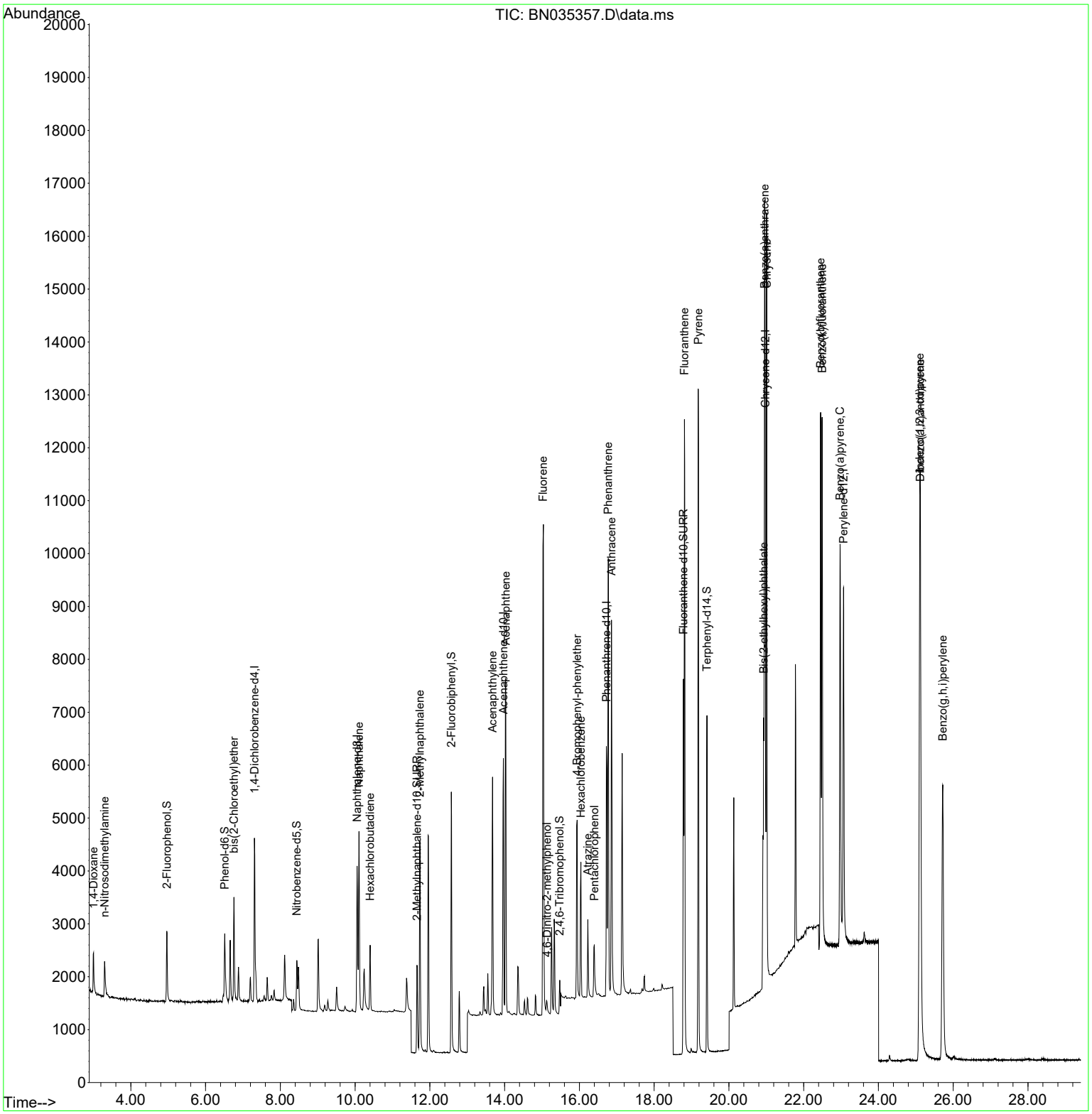
(#) = qualifier out of range (m) = manual integration (+) = signals summed

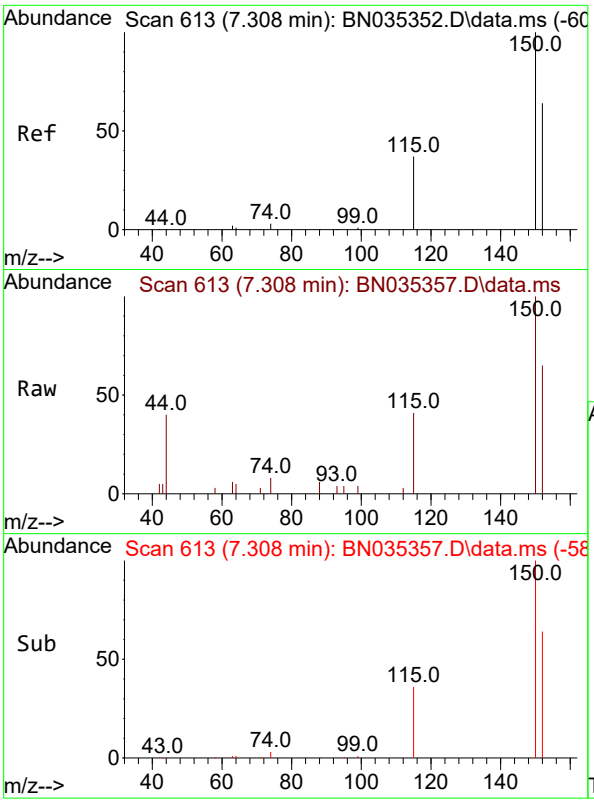
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



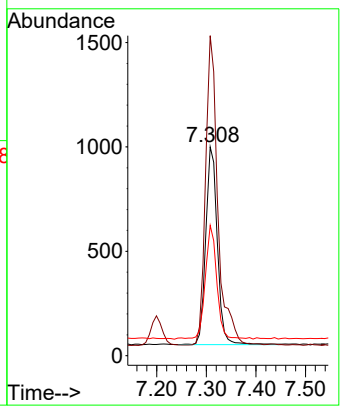


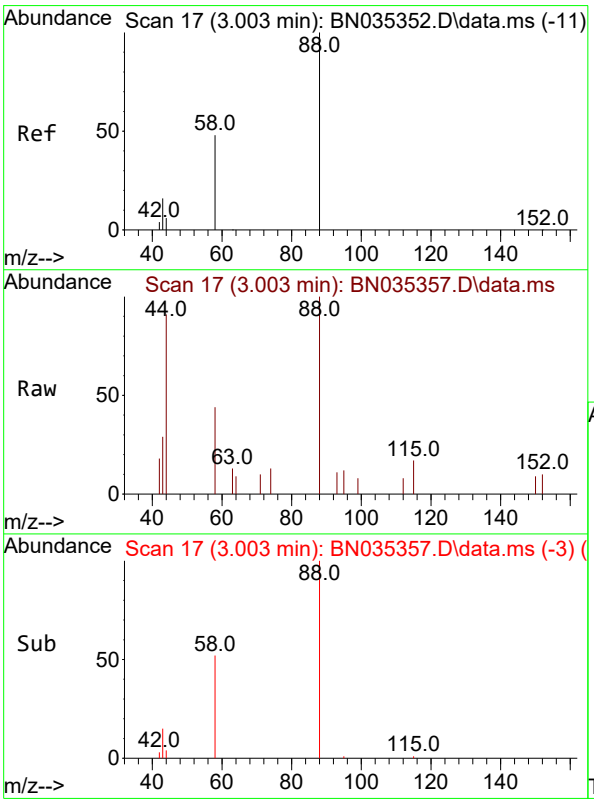
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 1540

Ion	Ratio	Lower	Upper
152	100		
150	153.3	124.0	186.0
115	62.4	49.6	74.4

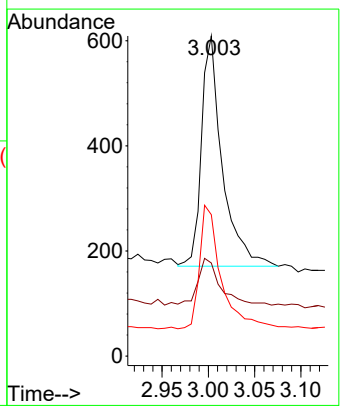


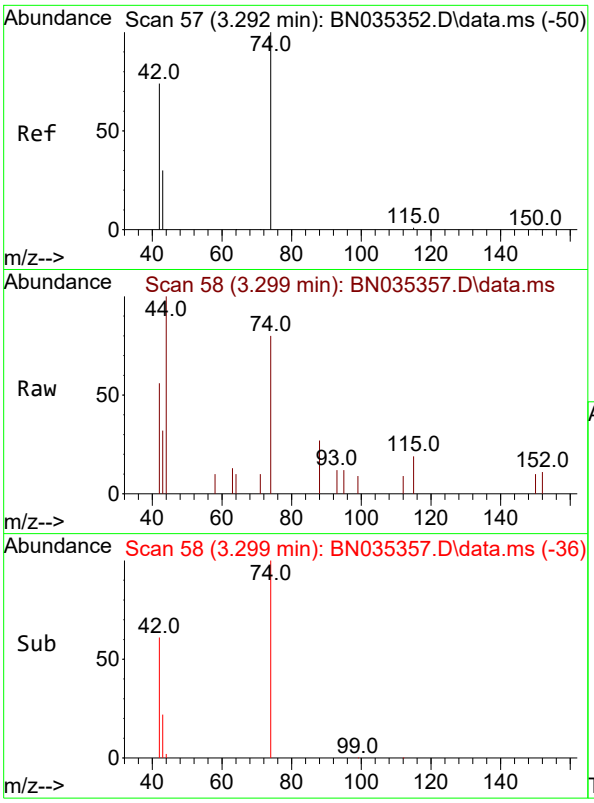


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 88 Resp: 684

Ion	Ratio	Lower	Upper
88	100		
43	21.8	17.2	25.8
58	56.0	44.5	66.7



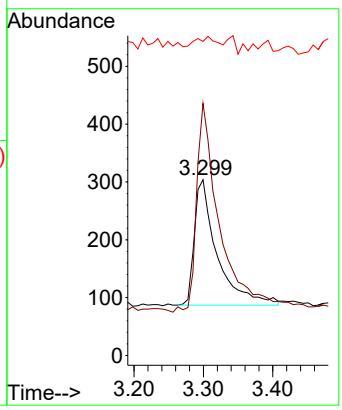


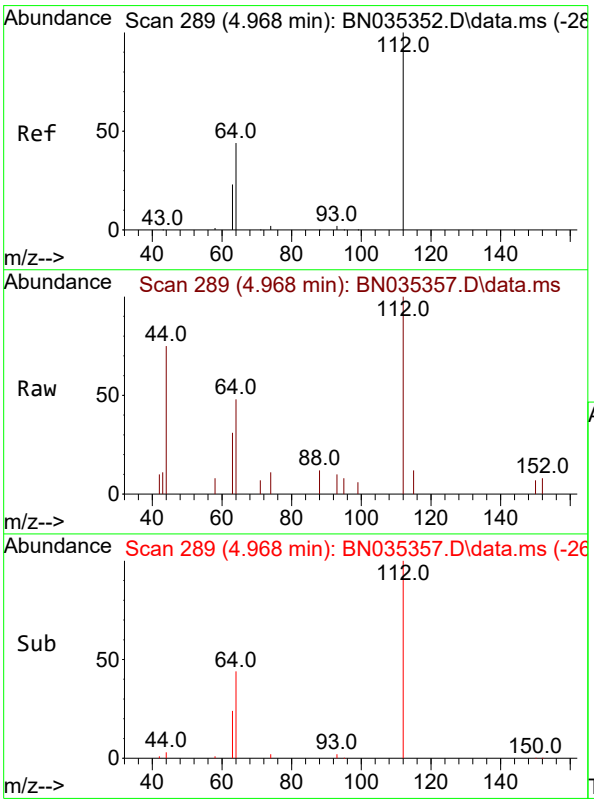
#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 42 Resp: 495

Ion	Ratio	Lower	Upper
42	100		
74	172.1	124.9	187.3
44	6.3	2.2	3.4#

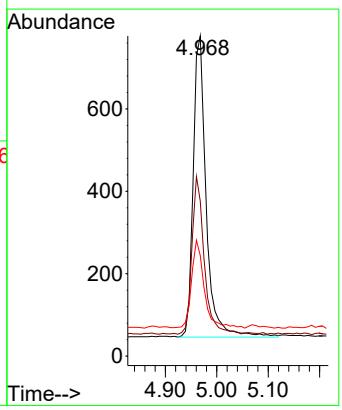


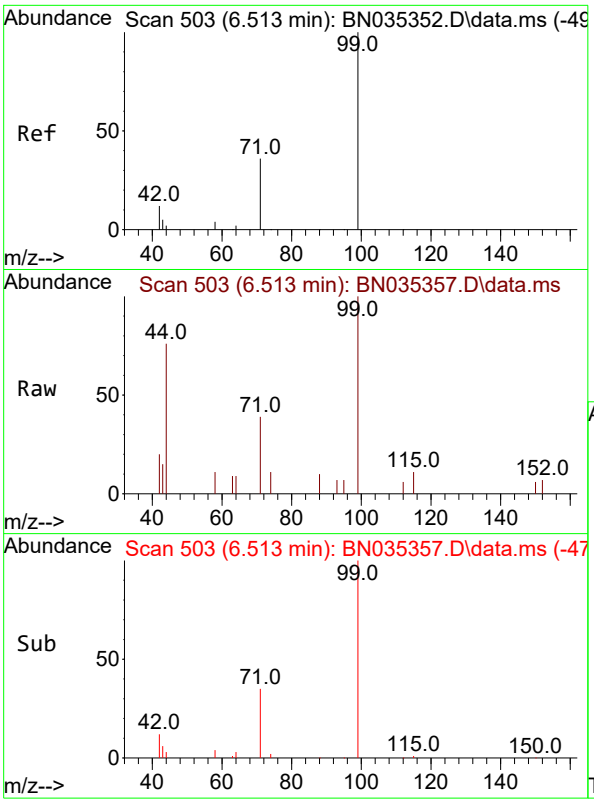


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:112 Resp: 1280

Ion	Ratio	Lower	Upper
112	100		
64	49.0	39.8	59.8
63	28.4	21.0	31.6



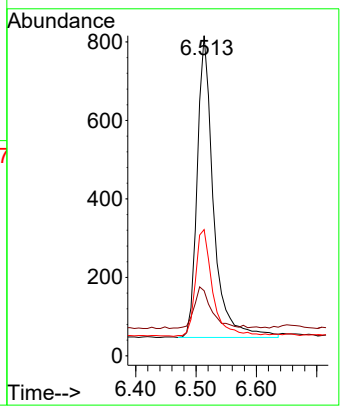


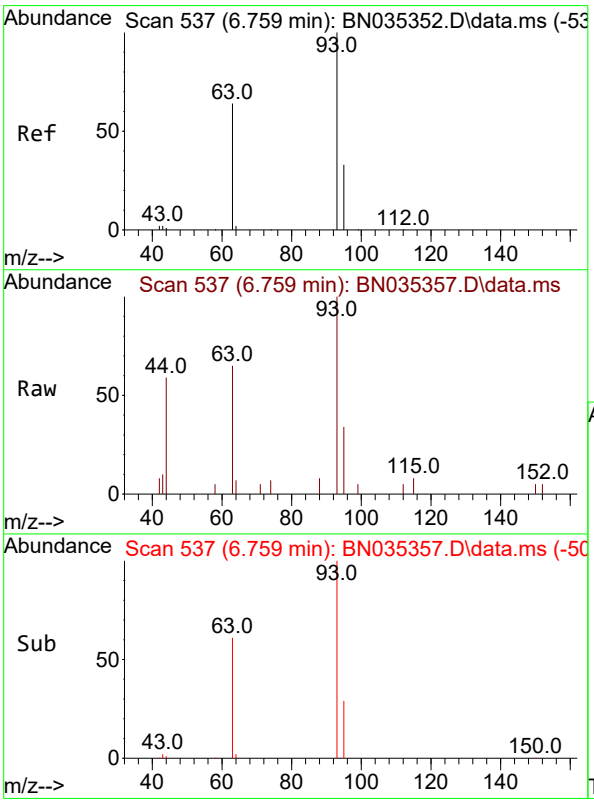
#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion: 99 Resp: 1437

Ion	Ratio	Lower	Upper
99	100		
42	13.9	11.4	17.2
71	37.2	29.3	43.9

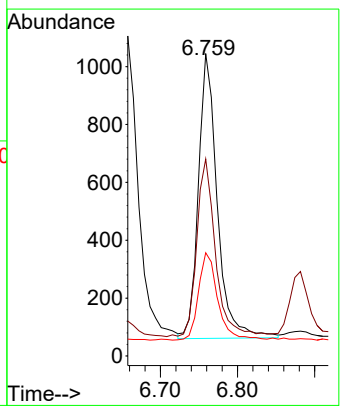


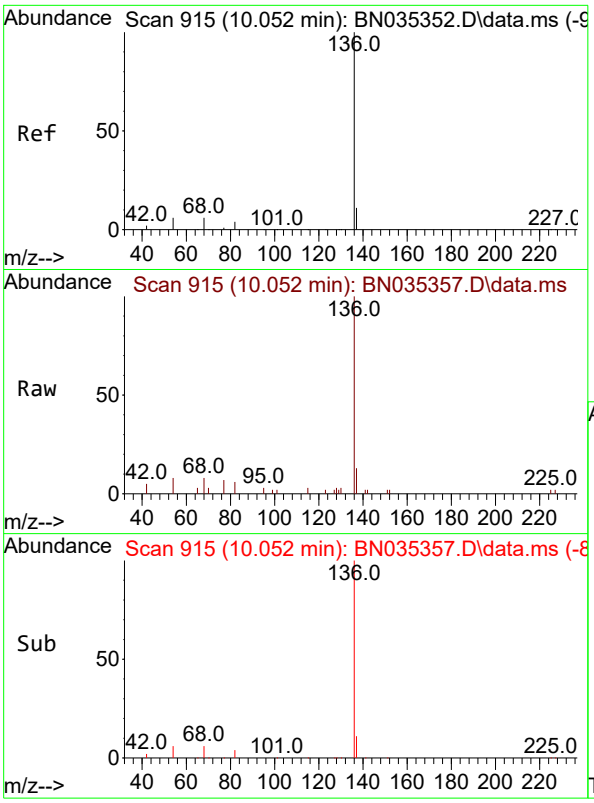


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 93 Resp: 1676

Ion	Ratio	Lower	Upper
93	100		
63	62.1	50.4	75.6
95	31.4	25.7	38.5



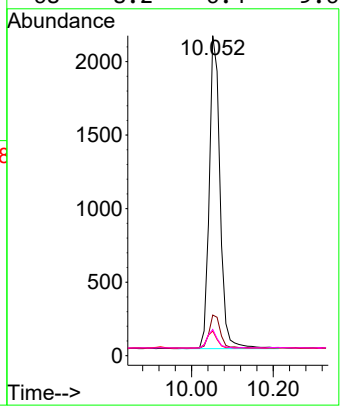


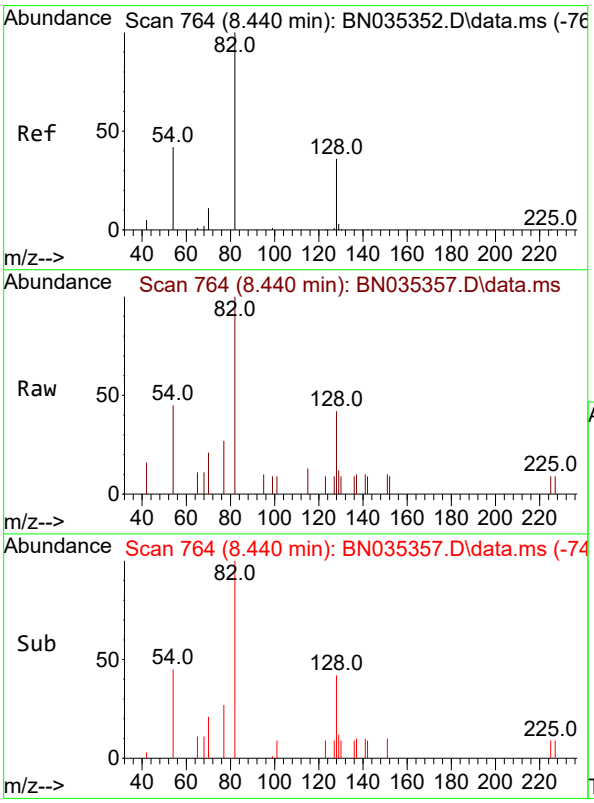
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:136 Resp: 3904

Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	7.7	6.1	9.1
68	8.2	6.4	9.6

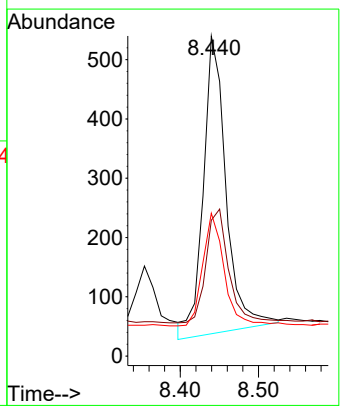


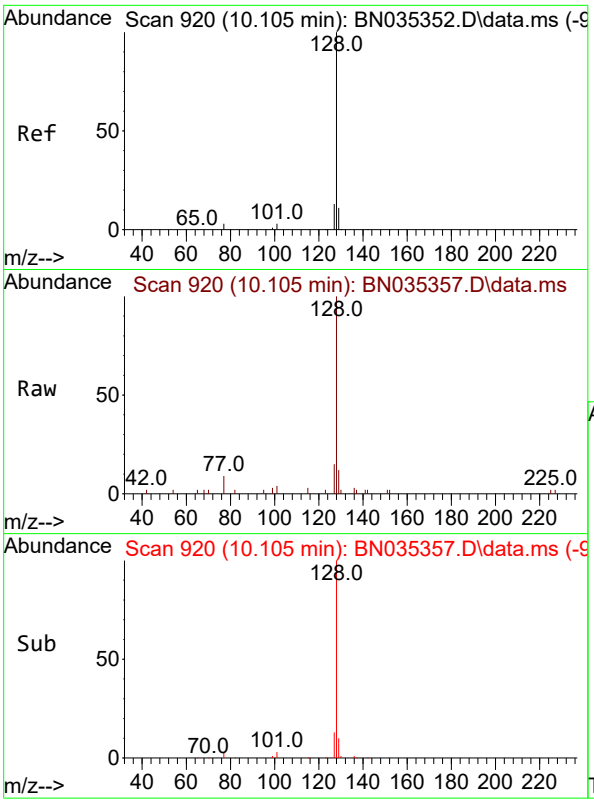


#8
Nitrobenzene-d5
Concen: 0.427 ng
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

Ion	Ratio	Lower	Upper
82	100		
128	42.4	33.4	50.0
54	44.6	36.7	55.1



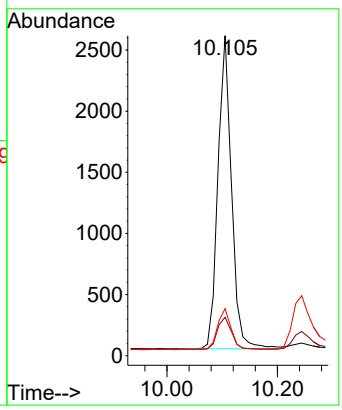


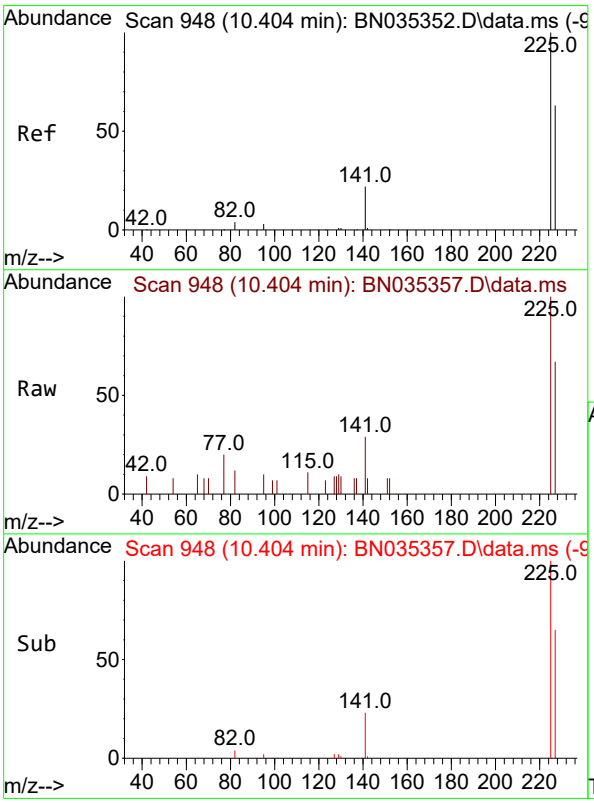
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:128 Resp: 4364

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.7	11.4	17.2

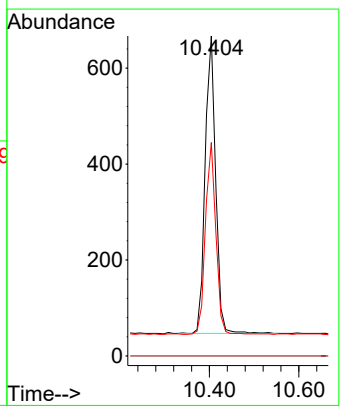


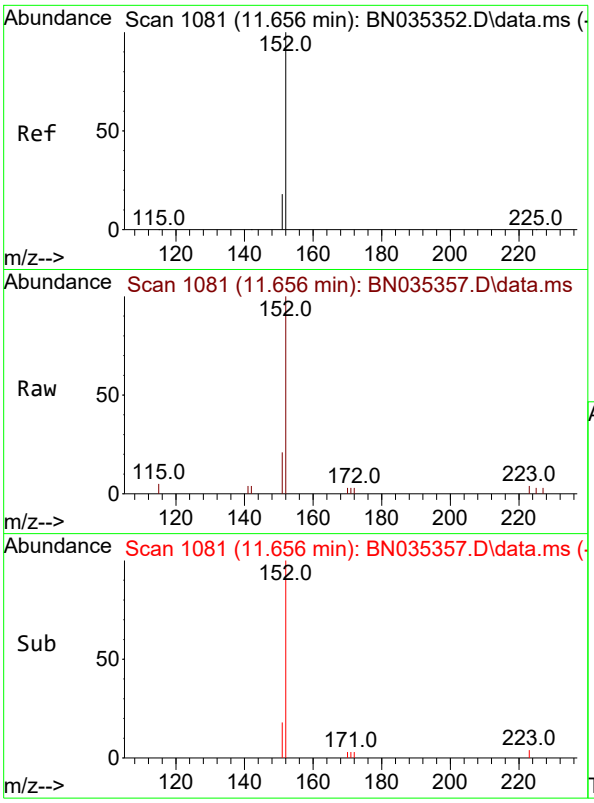


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:225 Resp: 1005

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.3	51.3	76.9



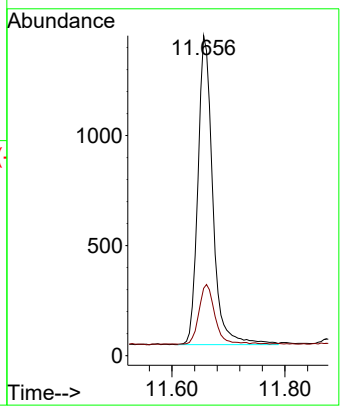


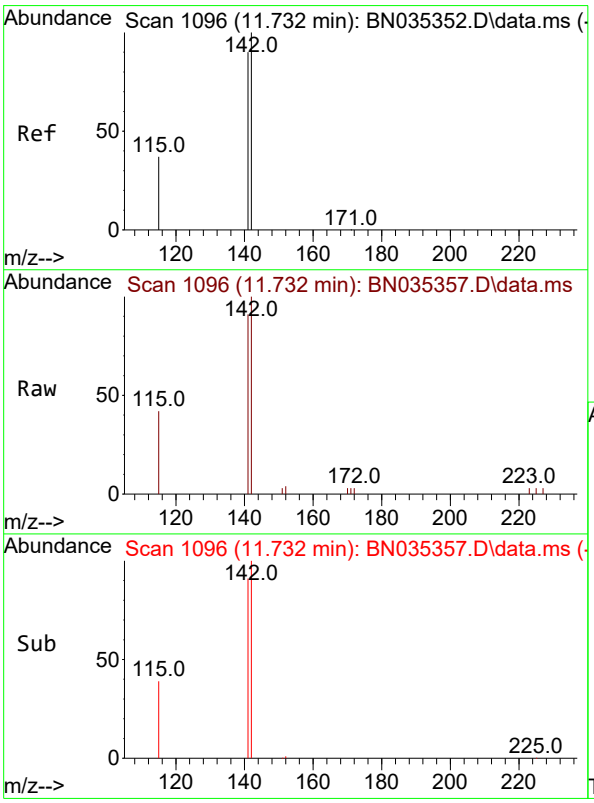
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:152 Resp: 2565

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.6	25.0

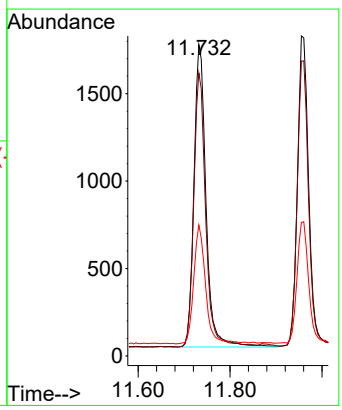


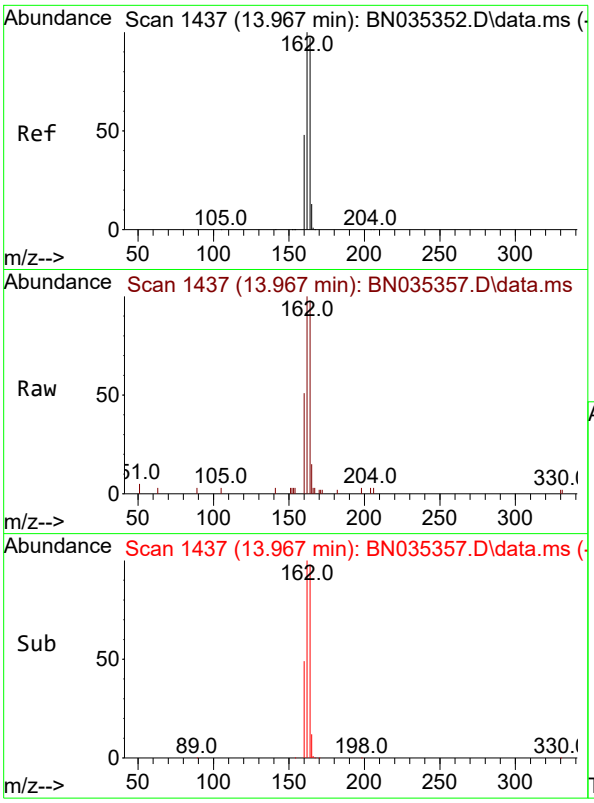


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:142 Resp: 3157

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4
115	42.0	31.4	47.0



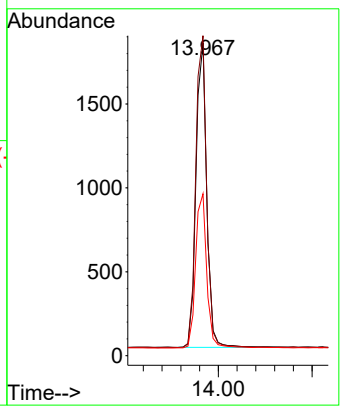


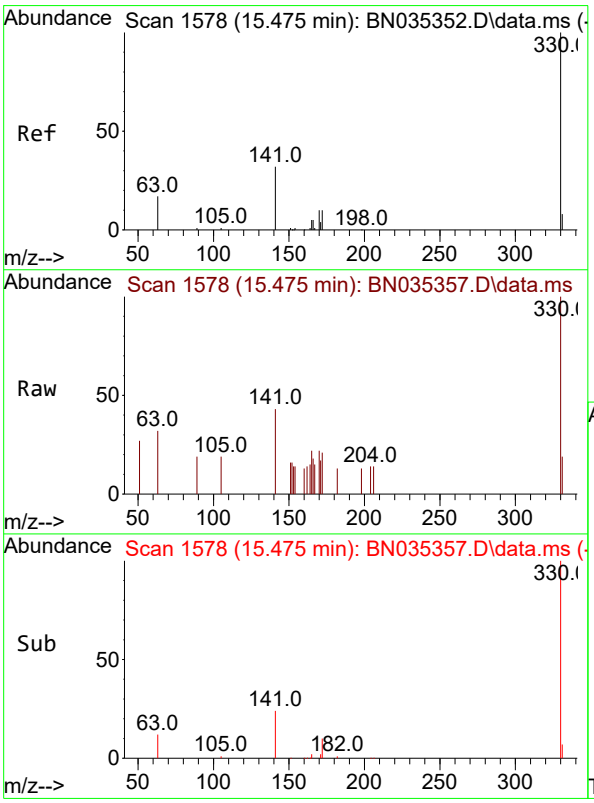
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:164 Resp: 2879

Ion	Ratio	Lower	Upper
164	100		
162	102.3	82.2	123.2
160	51.8	40.1	60.1

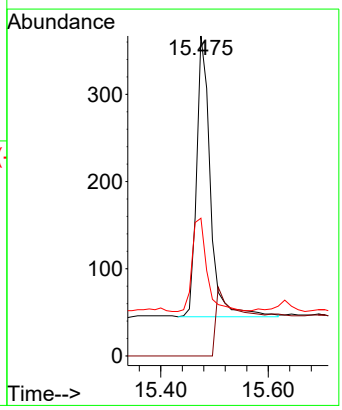


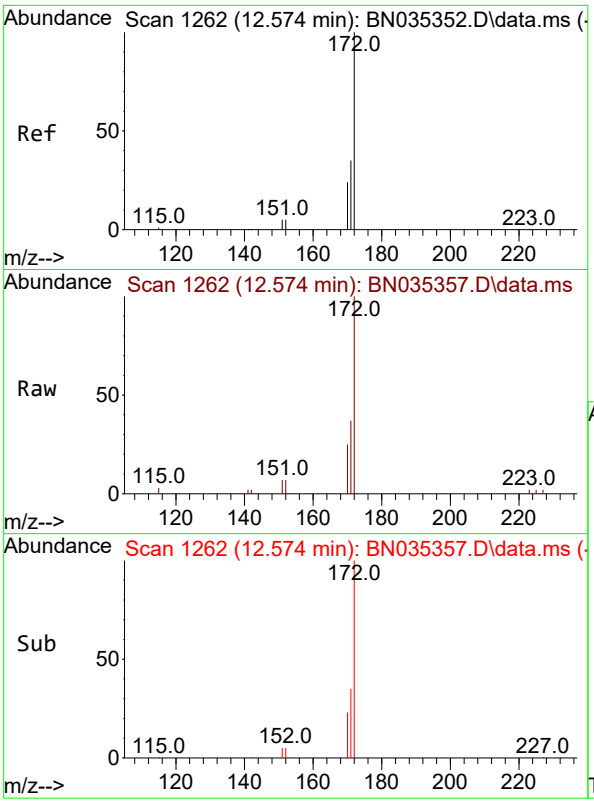


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:330 Resp: 617

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0



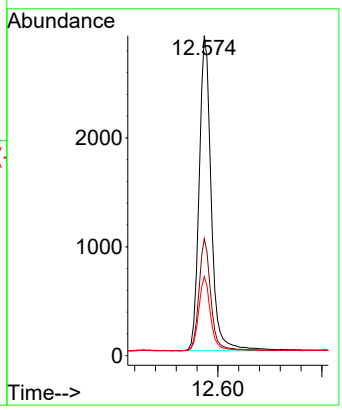


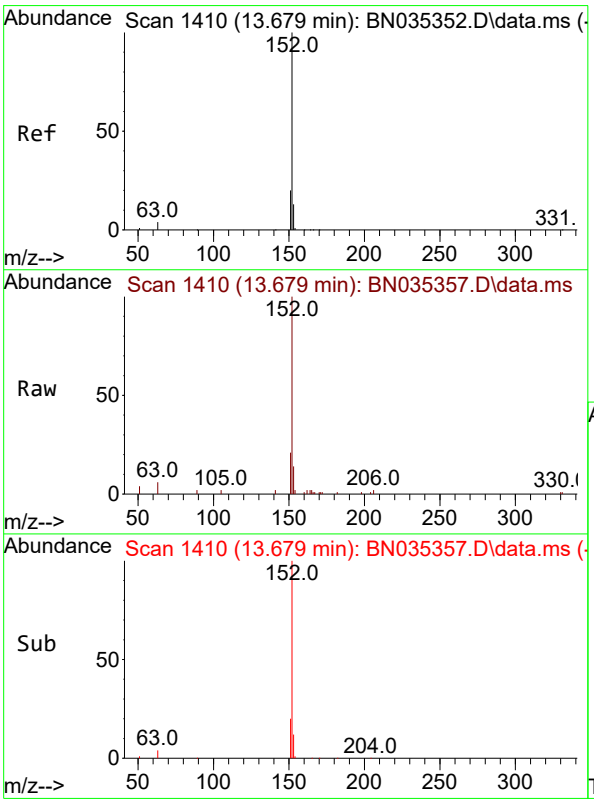
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:172 Resp: 4647

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.0	43.4
170	24.7	19.8	29.8

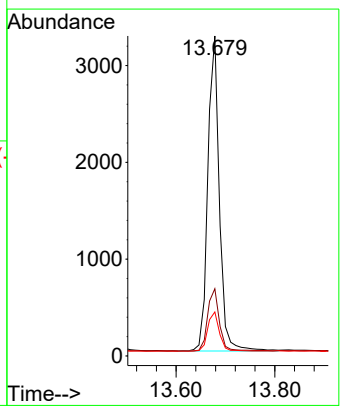


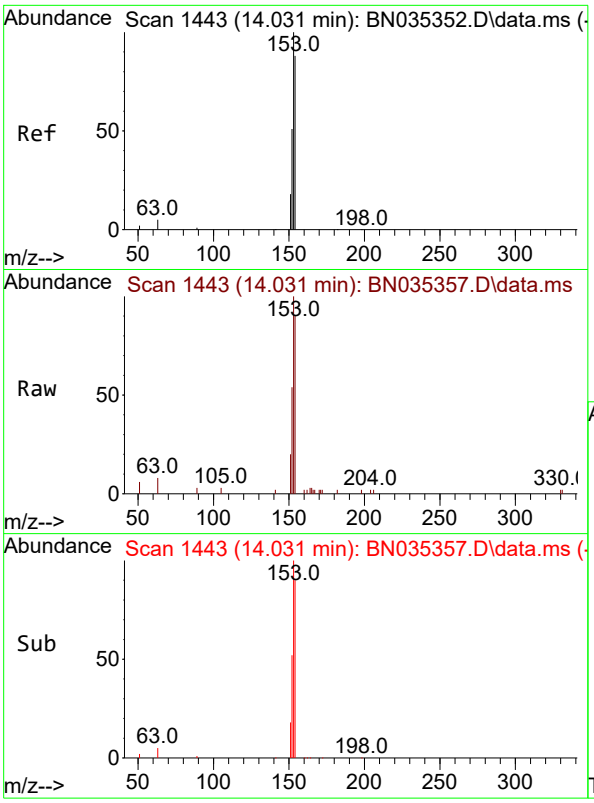


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:152 Resp: 5261

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	12.7	10.4	15.6



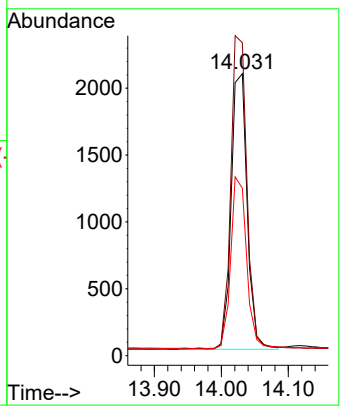


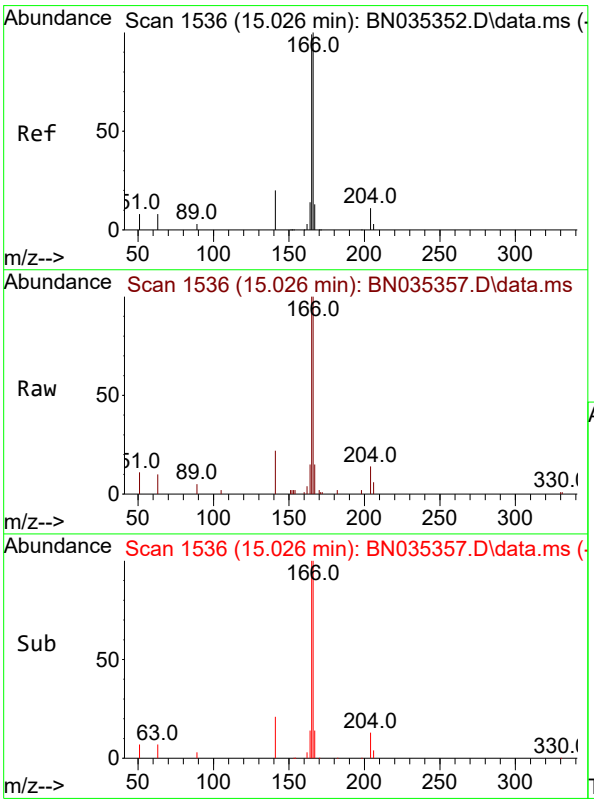
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:154 Resp: 3421

Ion	Ratio	Lower	Upper
154	100		
153	115.4	92.6	139.0
152	61.9	49.0	73.6

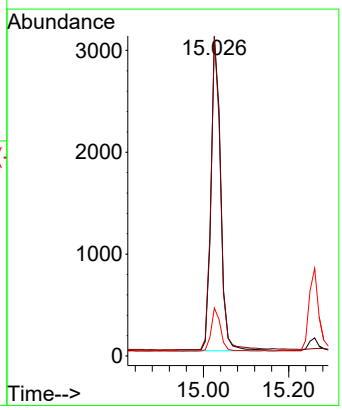


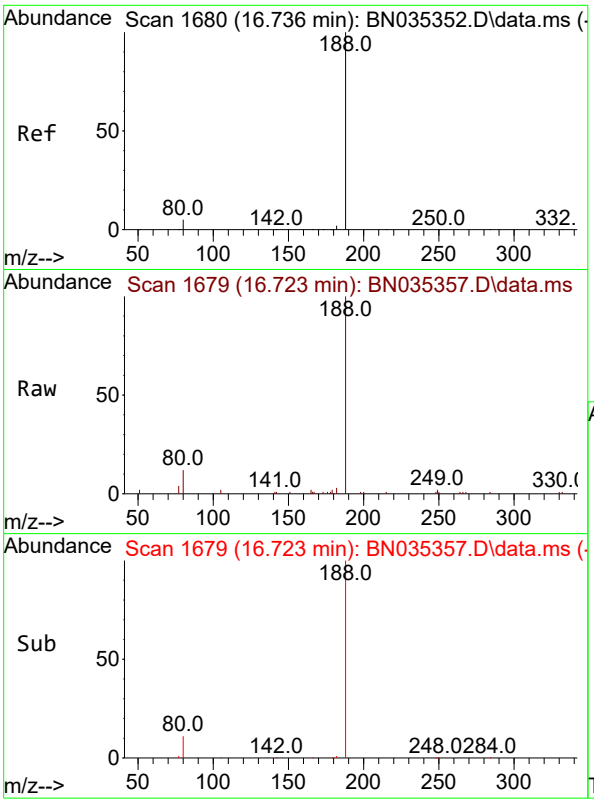


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:166 Resp: 4825

Ion	Ratio	Lower	Upper
166	100		
165	98.4	79.7	119.5
167	13.6	10.8	16.2



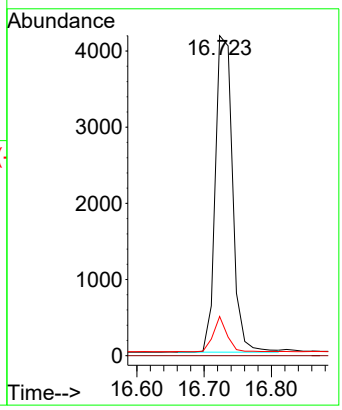


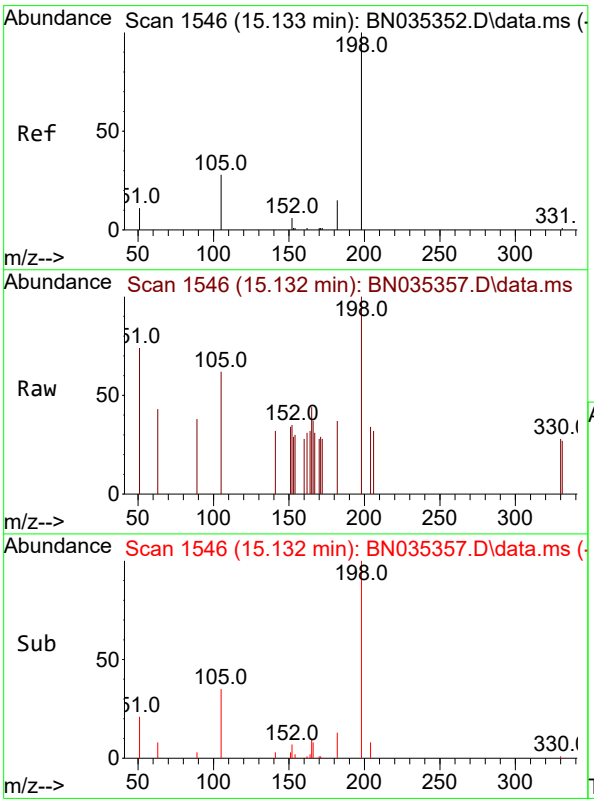
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:188 Resp: 7350

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.2	4.6	6.8#

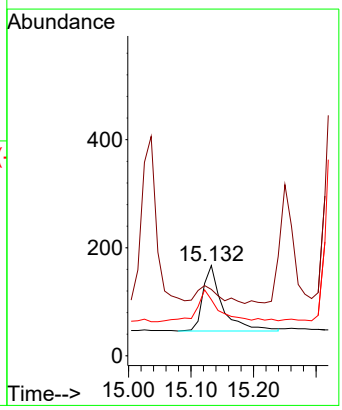


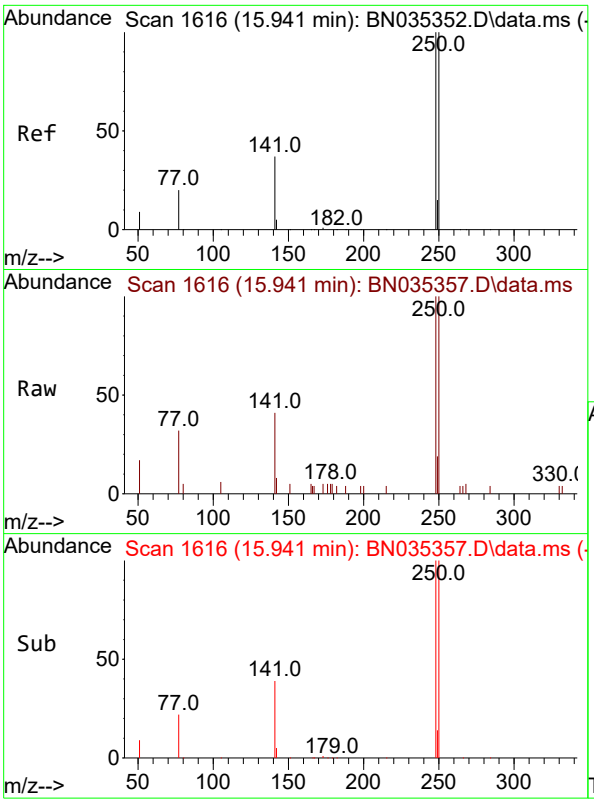


#20
4,6-Dinitro-2-methylphenol
Concen: 0.364 ng
RT: 15.132 min Scan# 1546
Delta R.T. -0.001 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:198 Resp: 263

Ion	Ratio	Lower	Upper
198	100		
51	73.7	46.5	69.7#
105	62.3	45.3	67.9



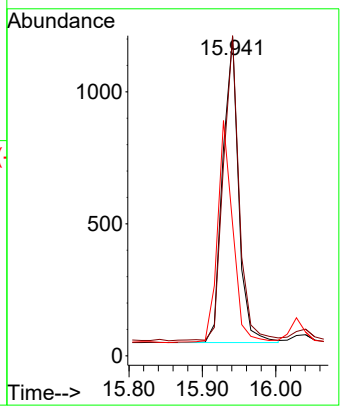


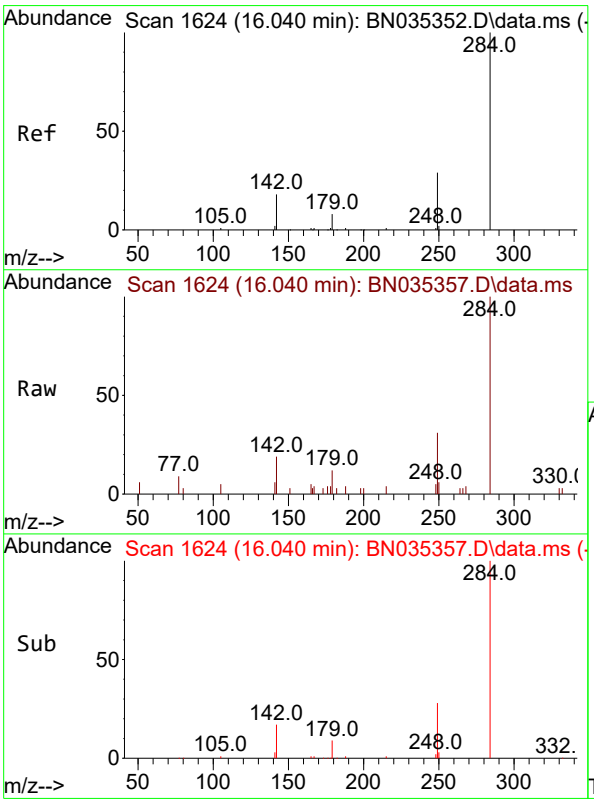
#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:248 Resp: 1742

Ion	Ratio	Lower	Upper
248	100		
250	100.3	80.6	120.8
141	41.2	31.5	47.3

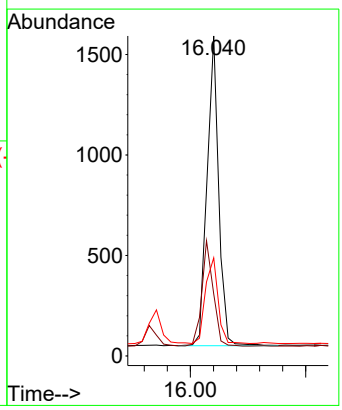


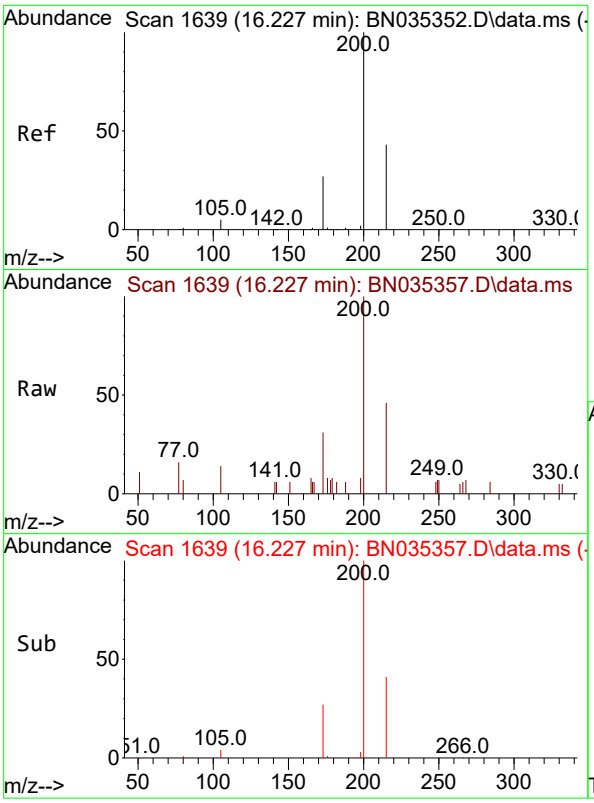


#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:284 Resp: 2151

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.7	40.1
249	30.0	24.6	36.8



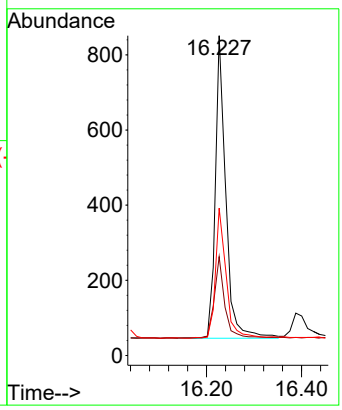


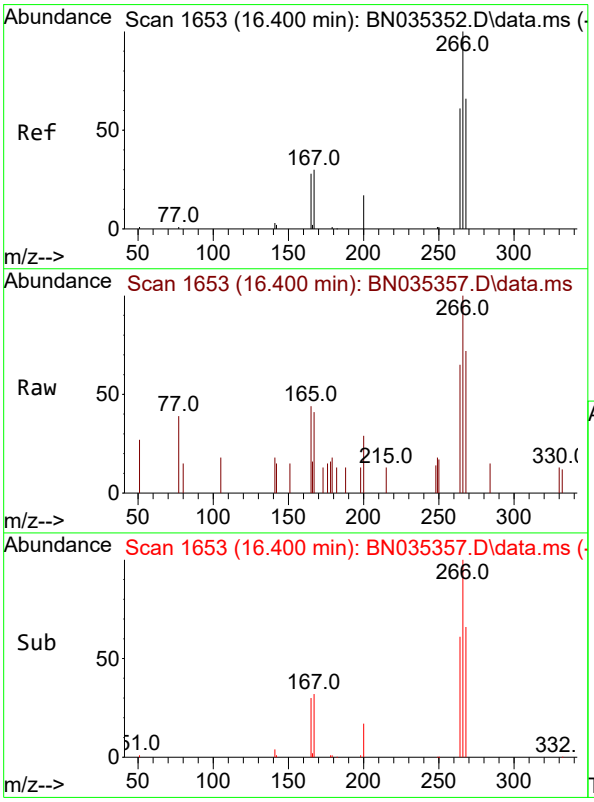
#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:200 Resp: 1227

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	46.1	36.9	55.3

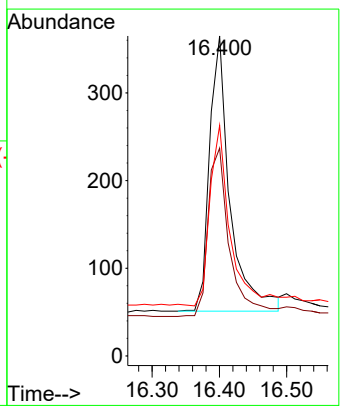


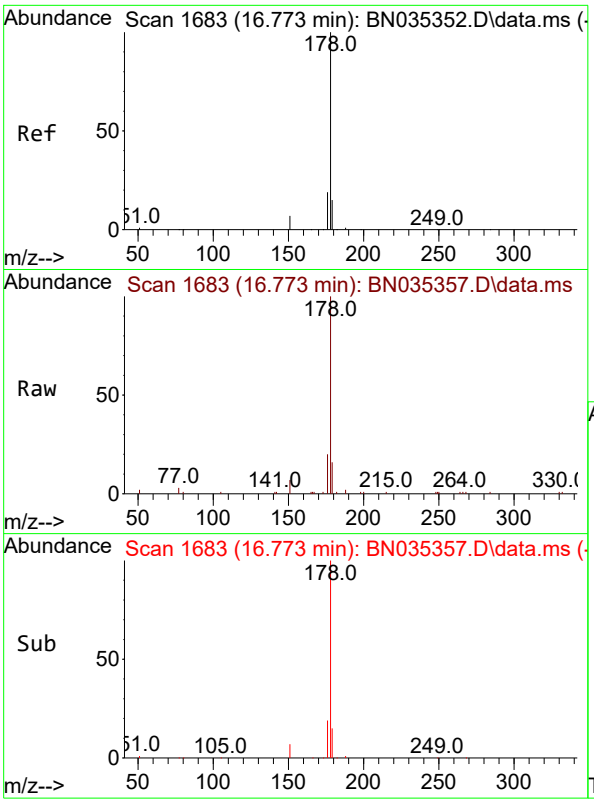


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:266 Resp: 662

Ion	Ratio	Lower	Upper
266	100		
264	65.0	42.3	63.5#
268	66.8	43.3	64.9#



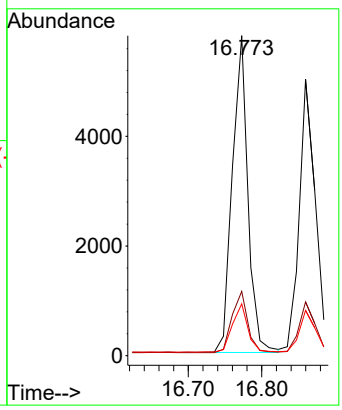


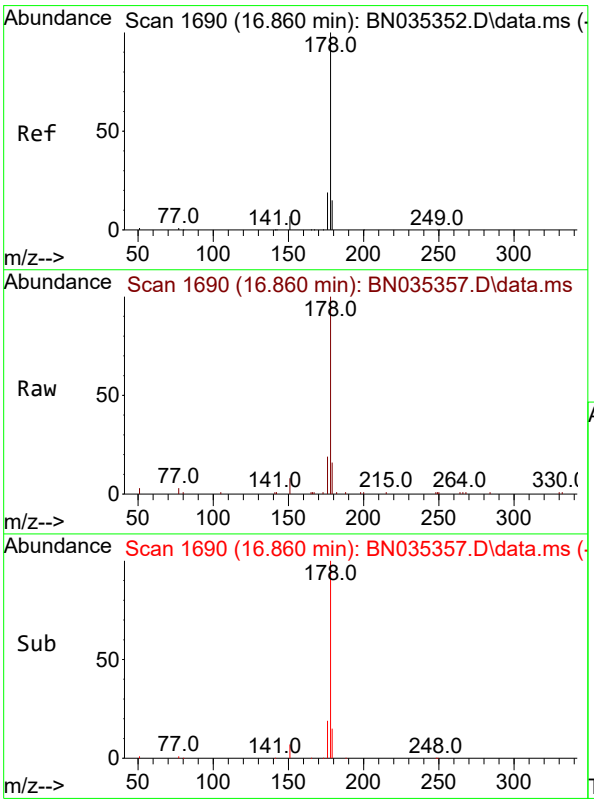
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:178 Resp: 8509

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.3	18.5

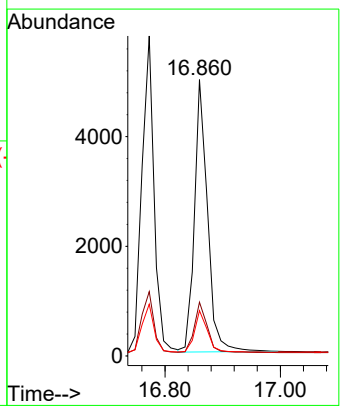


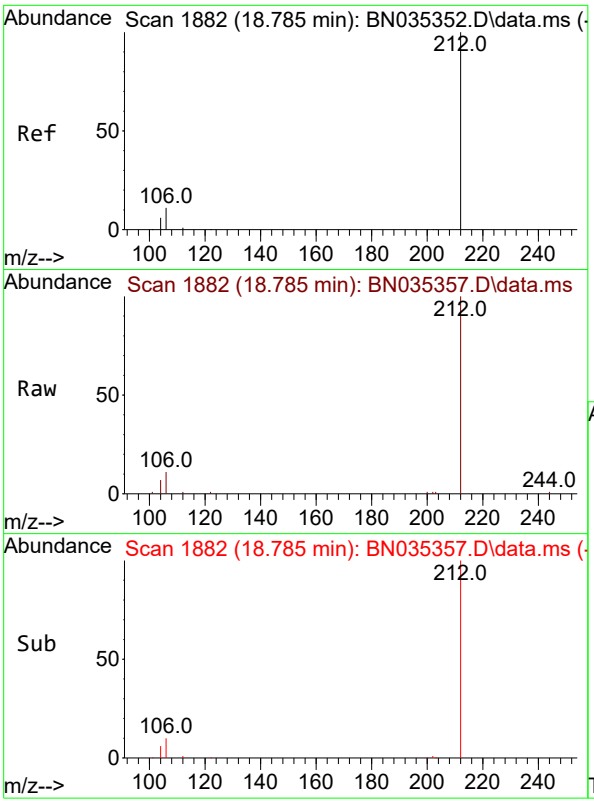


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:178 Resp: 7849

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.6	18.8



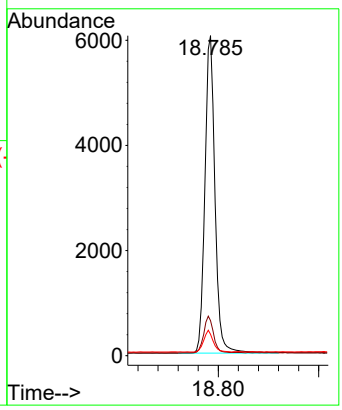


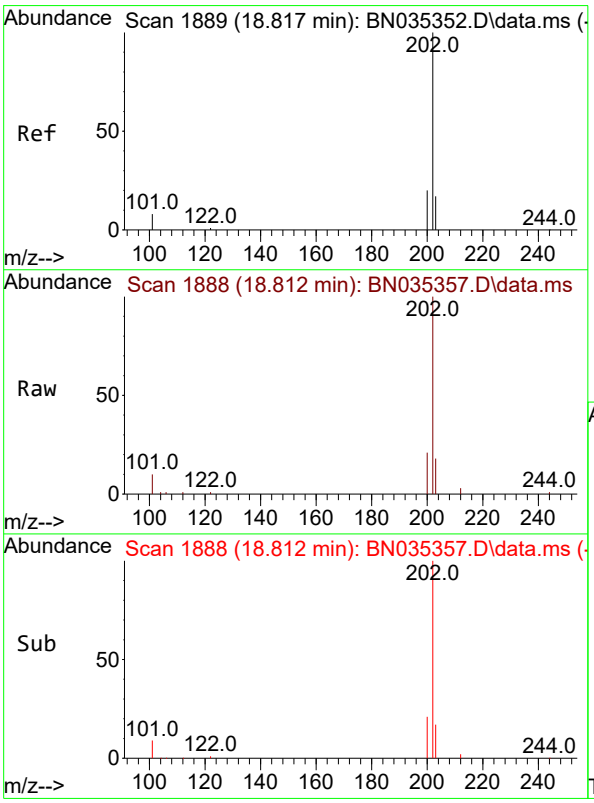
#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:212 Resp: 8415

Ion	Ratio	Lower	Upper
212	100		
106	11.3	9.2	13.8
104	6.4	5.3	7.9

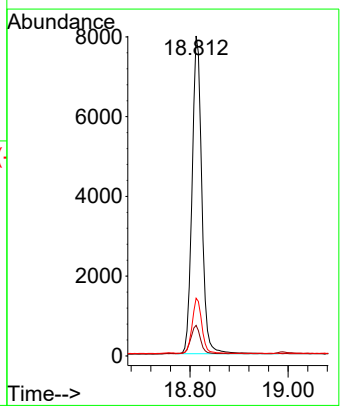


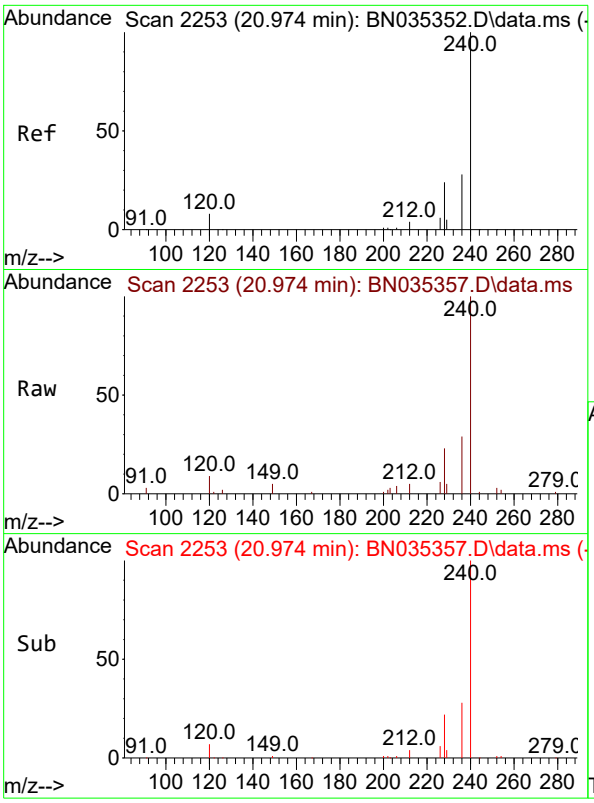


#28
Fluoranthene
Concen: 0.402 ng
RT: 18.812 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 10941

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	17.1	13.7	20.5



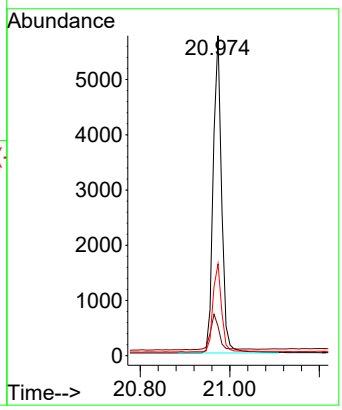


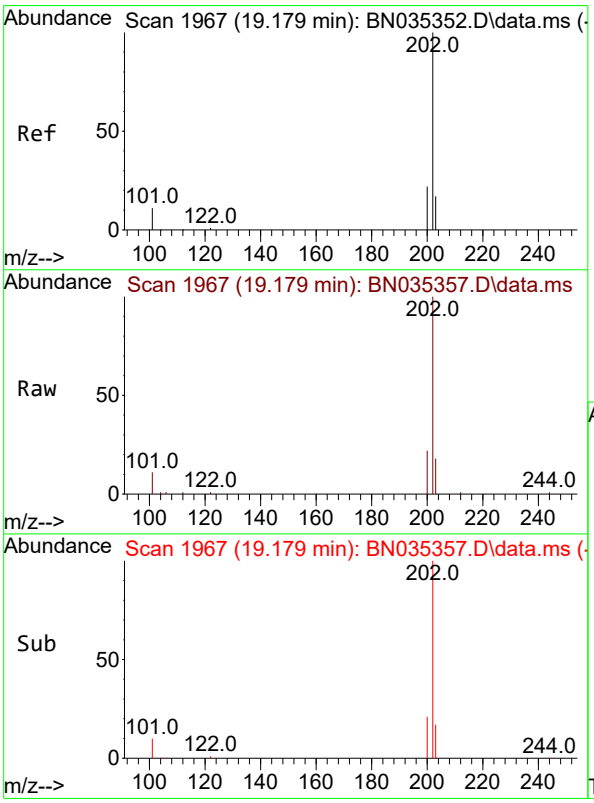
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:240 Resp: 7576

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.9	11.9
236	28.7	22.9	34.3

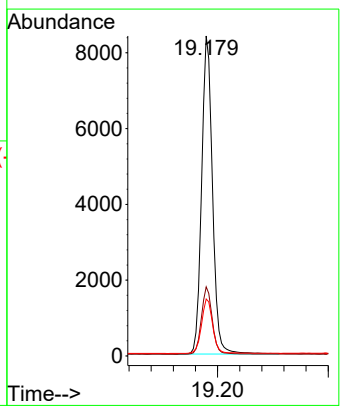


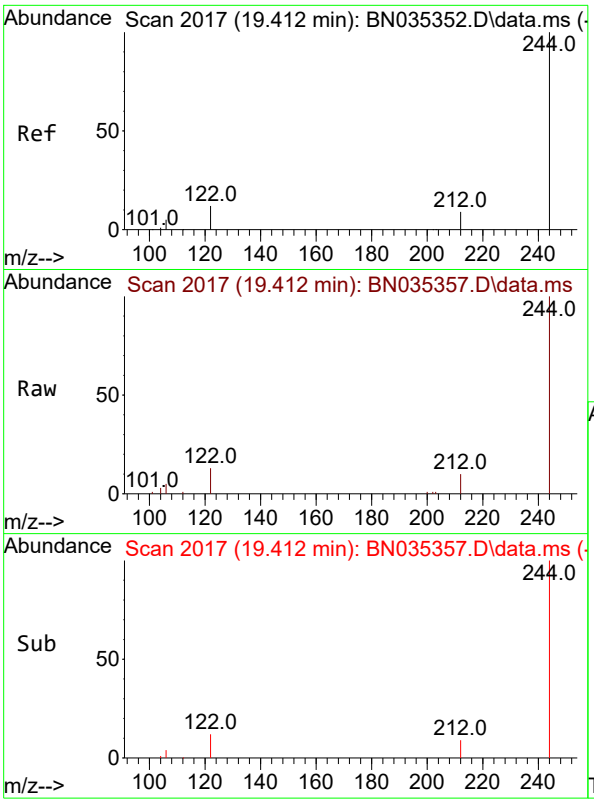


#30
Pyrene
Concen: 0.410 ng
RT: 19.179 min Scan# 1967
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:202 Resp: 11476

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.8	14.3	21.5



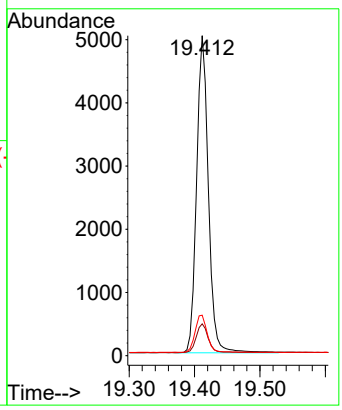


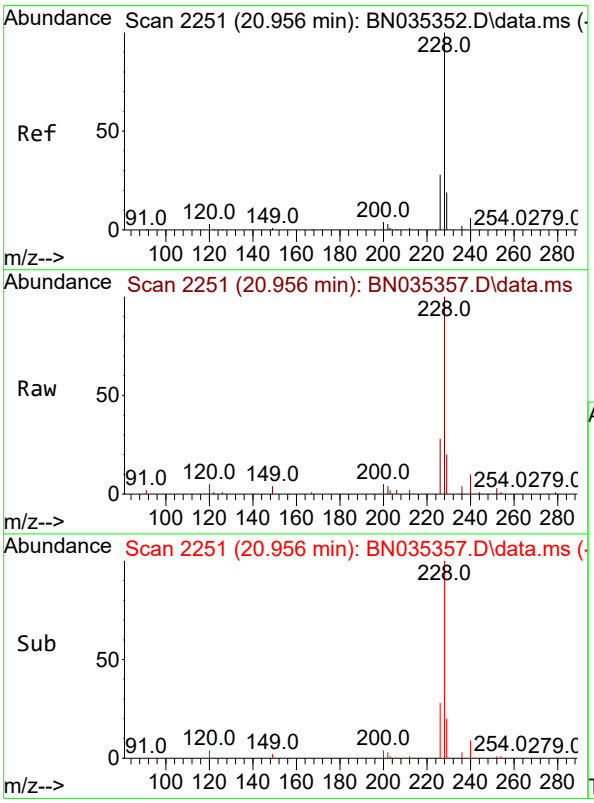
#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:244 Resp: 6272

Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.1	12.1
122	12.6	10.3	15.5

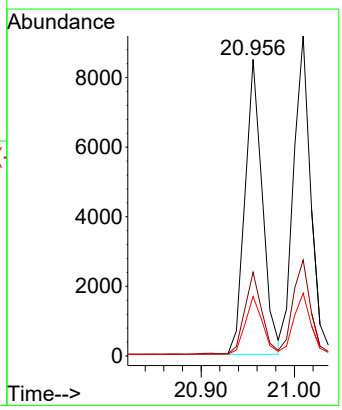


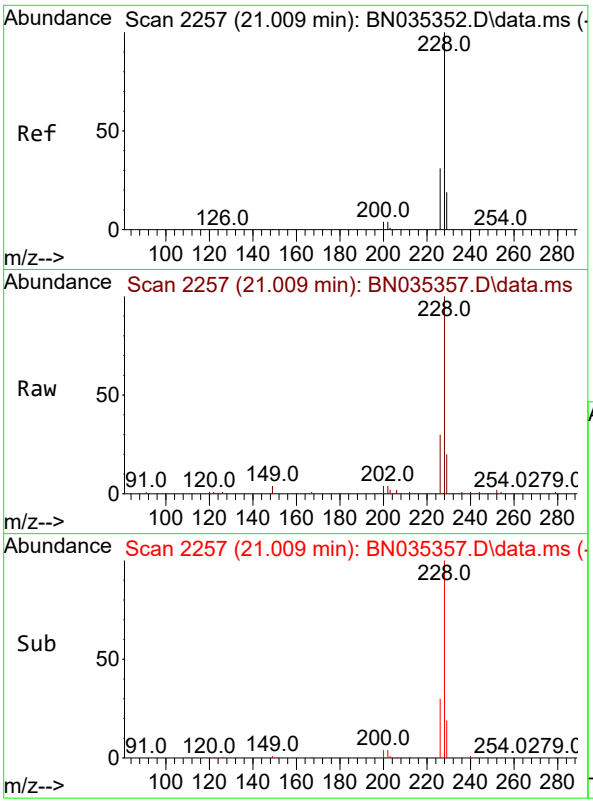


#32
Benzo(a)anthracene
Concen: 0.413 ng
RT: 20.956 min Scan# 2251
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:228 Resp: 10934

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.1	15.8	23.8



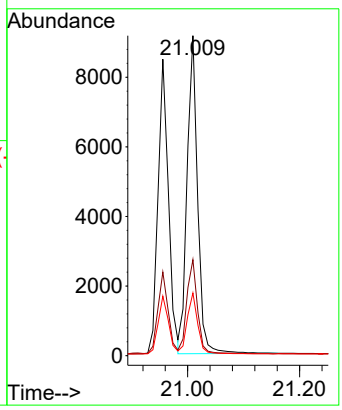


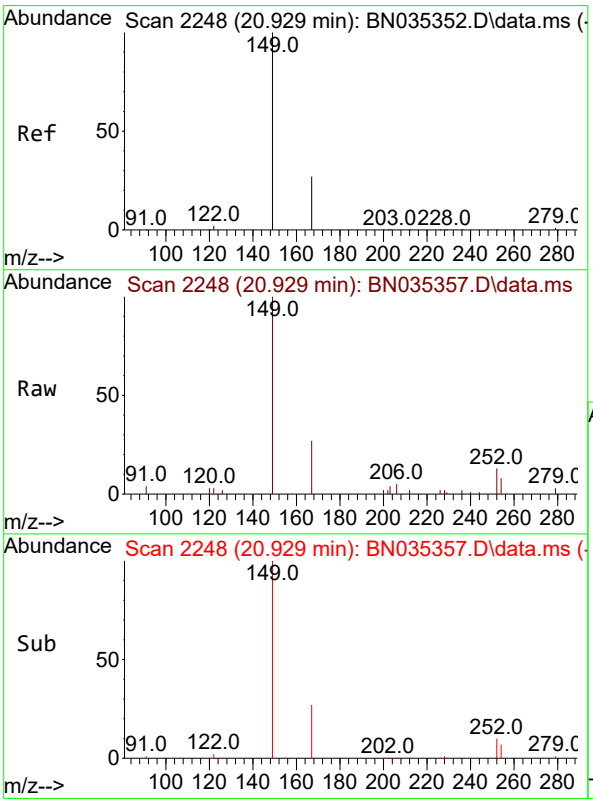
#33
Chrysene
Concen: 0.436 ng
RT: 21.009 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:228 Resp: 11926

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.6	15.9	23.9

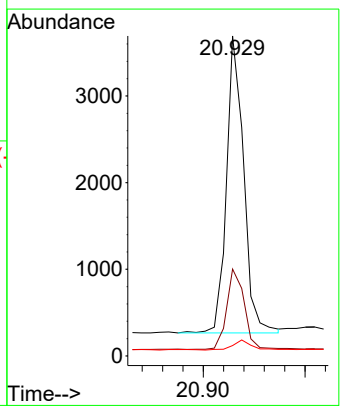


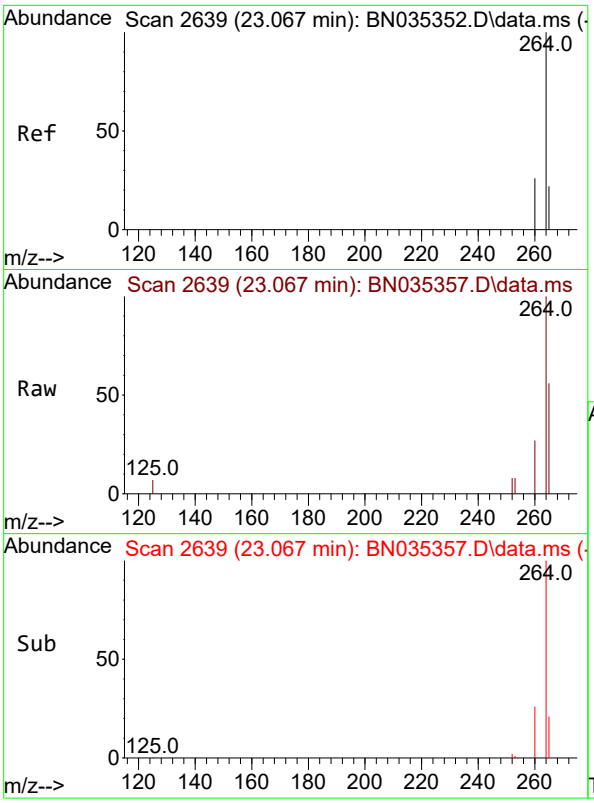


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:149 Resp: 4016

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	3.7	2.7	4.1



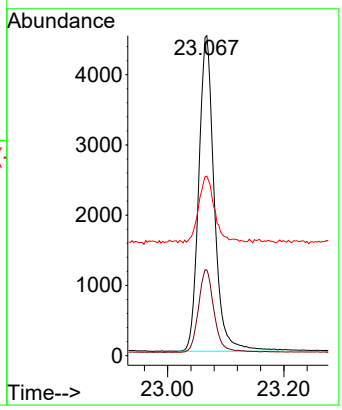


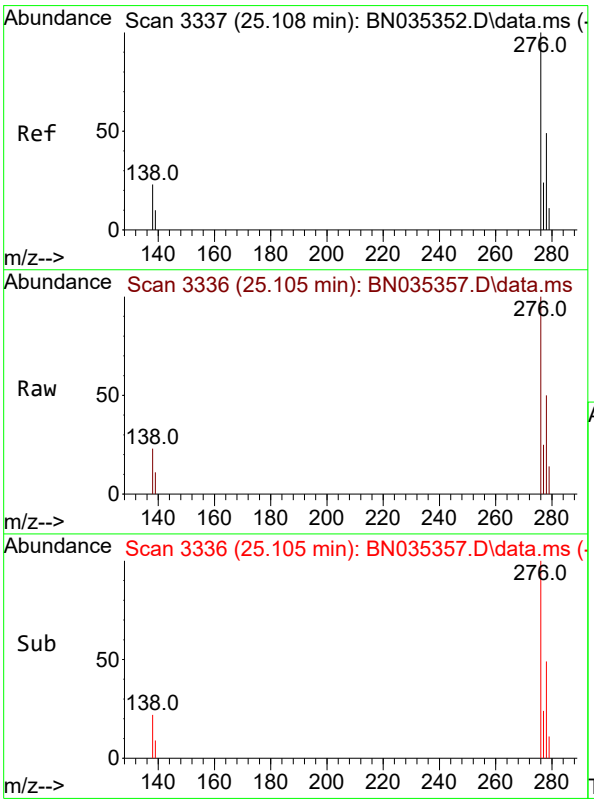
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:264 Resp: 8338

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	56.1	40.2	60.4

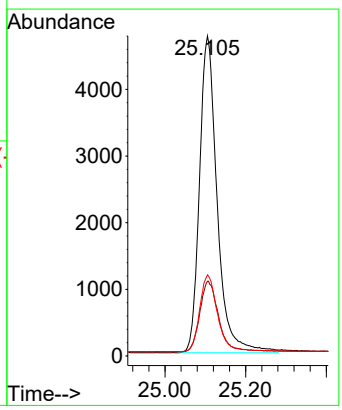


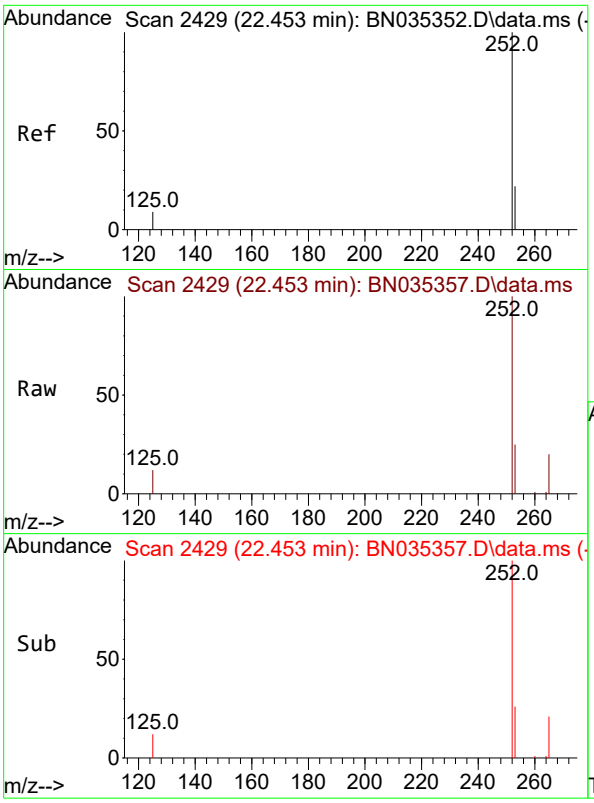


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:276 Resp: 14433

Ion	Ratio	Lower	Upper
276	100		
138	23.5	19.4	29.0
277	24.6	19.8	29.6



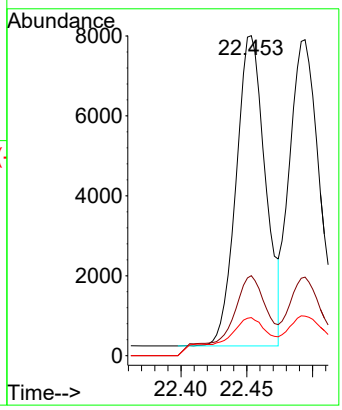


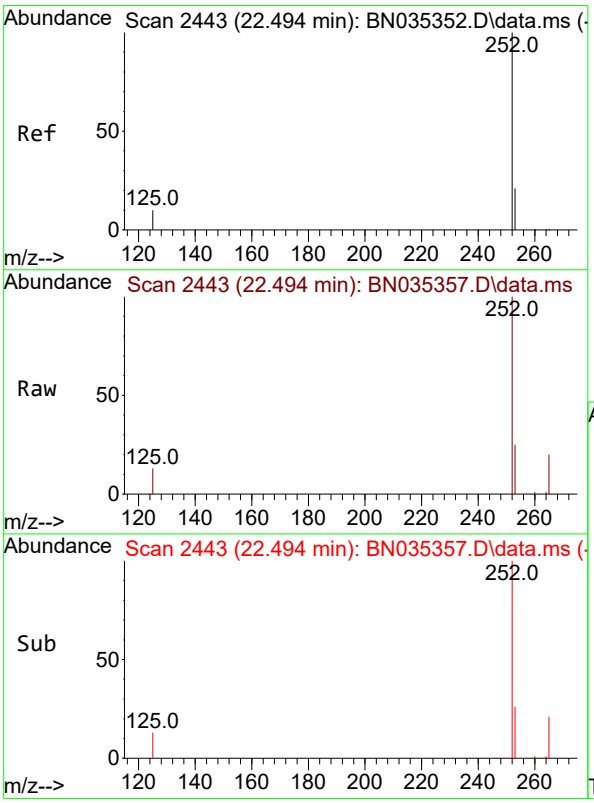
#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 12988

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	11.9	9.6	14.4

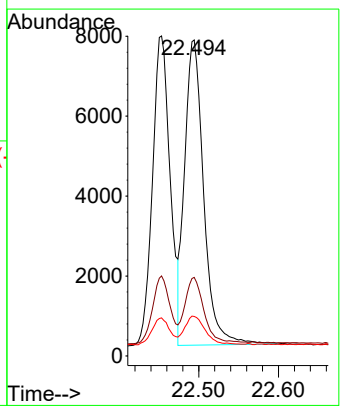


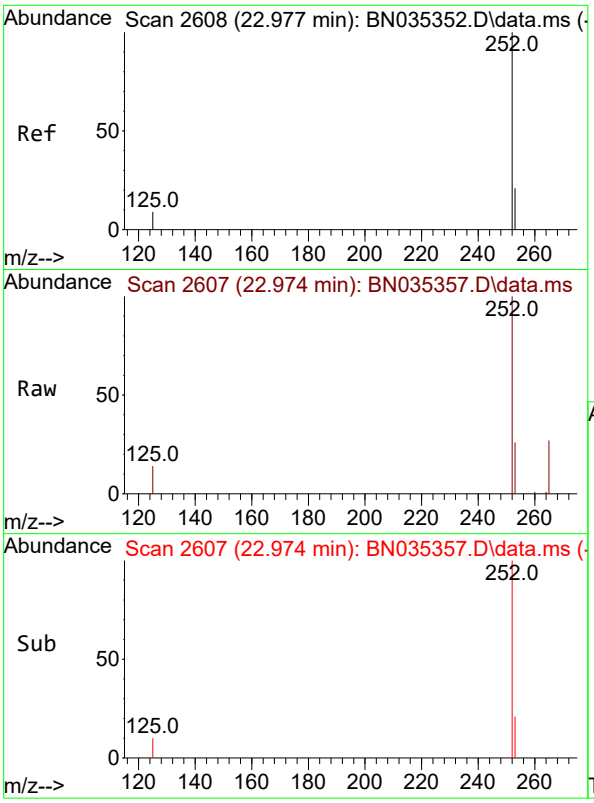


#38
Benzo(k)fluoranthene
Concen: 0.422 ng
RT: 22.494 min Scan# 2443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:252 Resp: 12669

Ion	Ratio	Lower	Upper
252	100		
253	24.8	19.5	29.3
125	12.5	10.2	15.4



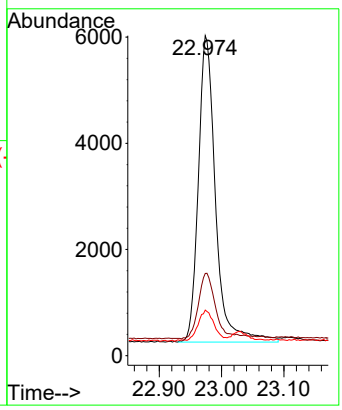


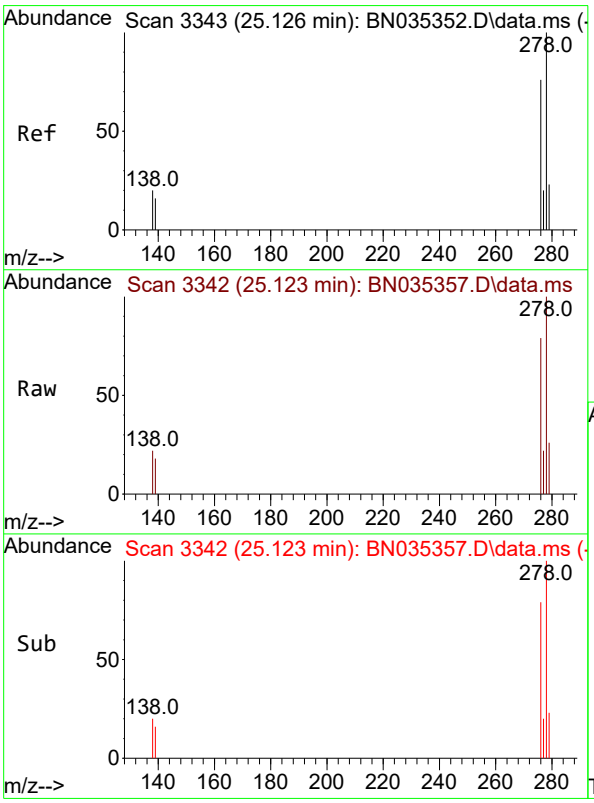
#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:252 Resp: 11094

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.2	30.4
125	14.3	10.9	16.3

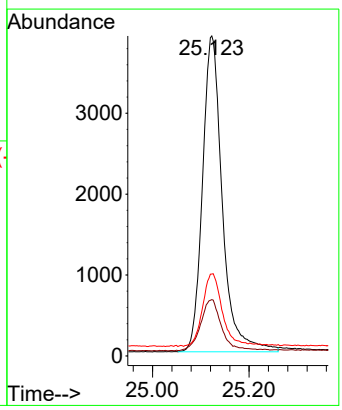


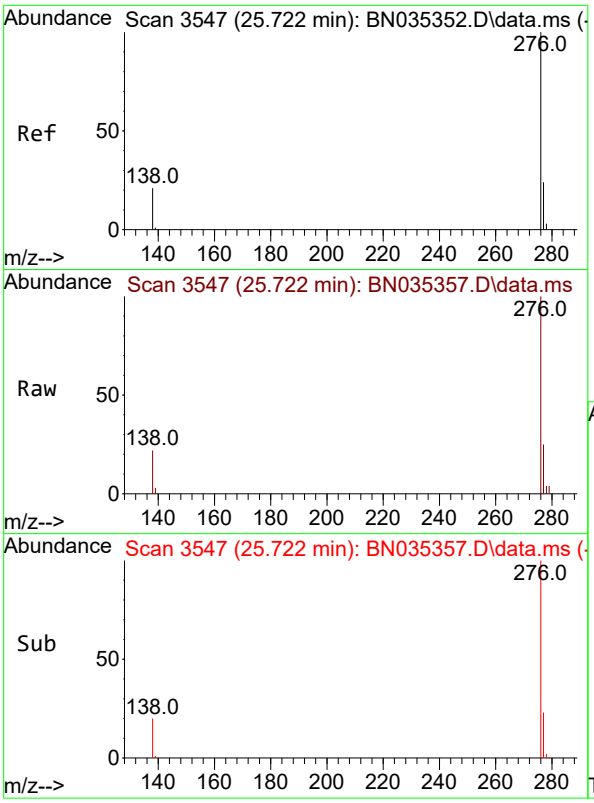


#40
Dibenzo(a,h)anthracene
Concen: 0.433 ng
RT: 25.123 min Scan# 3342
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Tgt Ion:278 Resp: 11141

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	25.6	20.5	30.7



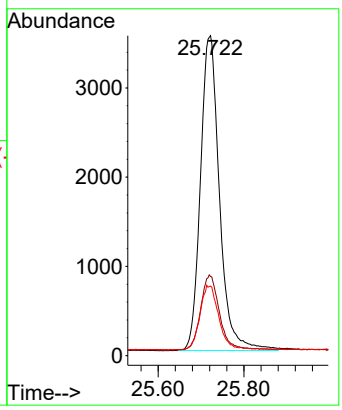


#41
Benzo(g,h,i)perylene
Concen: 0.404 ng
RT: 25.722 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Tgt Ion:276 Resp: 10870

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.9	29.9
138	21.7	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.272	152	2885	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	7460	0.400	ng		-0.01
13) Acenaphthene-d10	13.925	164	4592	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	9182	0.400	ng	#	0.00
29) Chrysene-d12	20.956	240	7719	0.400	ng		0.00
35) Perylene-d12	23.038	264	7943	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	2946	0.408	ng		0.00
5) Phenol-d6	6.484	99	3398	0.391	ng		0.00
8) Nitrobenzene-d5	8.408	82	2510	0.551	ng		0.00
11) 2-Methylnaphthalene-d10	11.616	152	4637	0.397	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1079	0.331	ng		0.00
15) 2-Fluorobiphenyl	12.539	172	7163	0.413	ng		0.00
27) Fluoranthene-d10	18.761	212	9858	0.379	ng		0.00
31) Terphenyl-d14	19.393	244	6880	0.452	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1284	0.466	ng		96
3) n-Nitrosodimethylamine	3.271	42	1037	0.451	ng	#	96
6) bis(2-Chloroethyl)ether	6.723	93	2854	0.391	ng		99
9) Naphthalene	10.063	128	8115	0.412	ng		99
10) Hexachlorobutadiene	10.351	225	2104	0.464	ng	#	98
12) 2-Methylnaphthalene	11.697	142	5318	0.378	ng		99
16) Acenaphthylene	13.636	152	7458	0.387	ng		100
17) Acenaphthene	13.989	154	5179	0.405	ng		99
18) Fluorene	14.994	166	6721	0.367	ng		100
20) 4,6-Dinitro-2-methylph...	15.133	198	99	0.110	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2111	0.393	ng	#	80
22) Hexachlorobenzene	16.003	284	3074	0.487	ng		96
23) Atrazine	16.202	200	1584	0.414	ng		97
24) Pentachlorophenol	16.376	266	1014	0.370	ng		87
25) Phenanthrene	16.748	178	9861	0.391	ng		100
26) Anthracene	16.835	178	8624	0.378	ng		99
28) Fluoranthene	18.789	202	12002	0.353	ng		100
30) Pyrene	19.156	202	12468	0.438	ng		99
32) Benzo(a)anthracene	20.938	228	9472	0.351	ng		99
33) Chrysene	20.992	228	11952	0.429	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	4632	0.434	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.067	276	12531	0.404	ng		96
37) Benzo(b)fluoranthene	22.427	252	13708	0.472	ng		95
38) Benzo(k)fluoranthene	22.427	252	13708	0.479	ng		96
39) Benzo(a)pyrene	22.950	252	9304	0.389	ng	#	91
40) Dibenzo(a,h)anthracene	25.082	278	9530	0.389	ng		95
41) Benzo(g,h,i)perylene	25.675	276	11213	0.438	ng		99

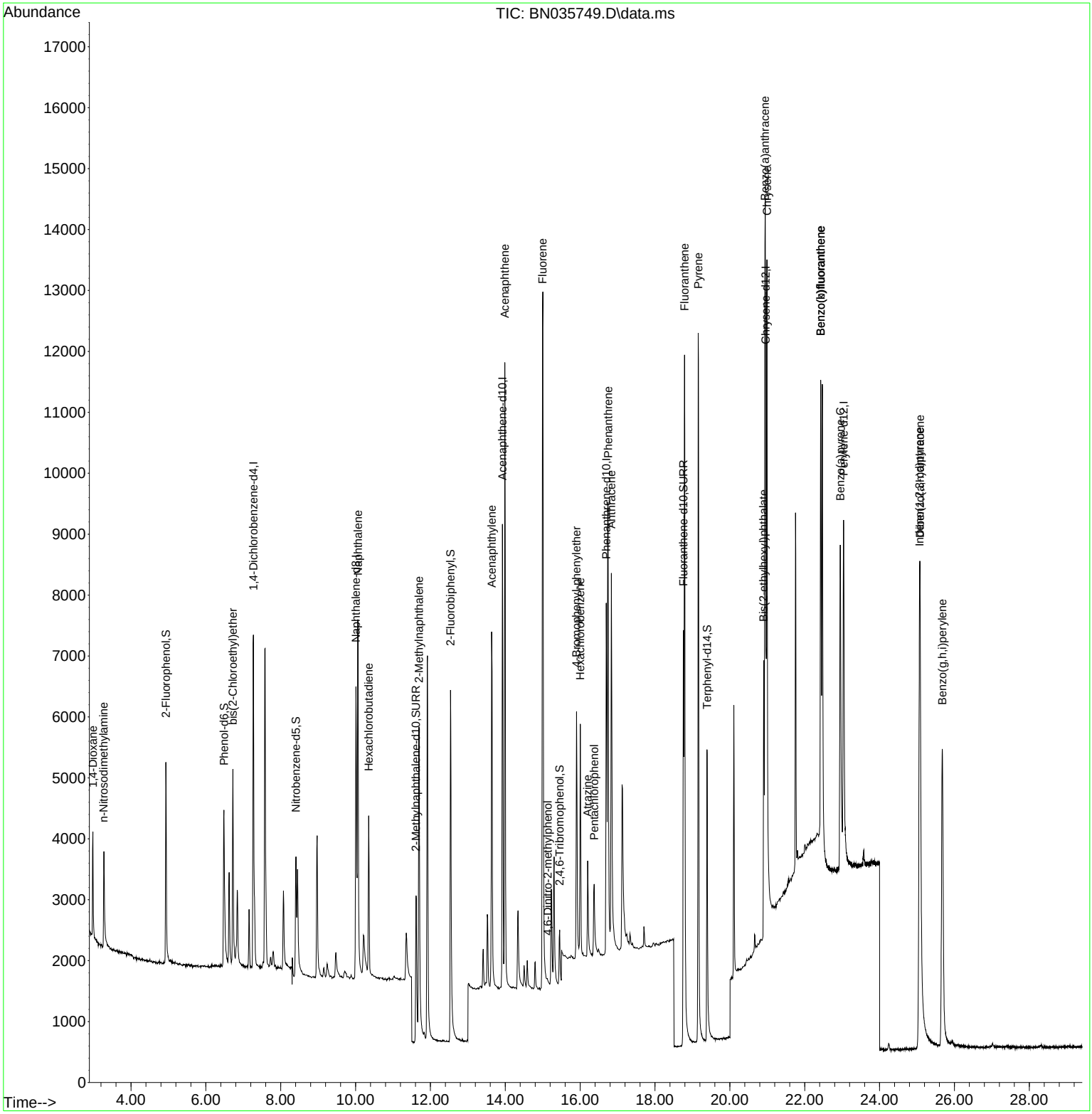
(#) = qualifier out of range (m) = manual integration (+) = signals summed

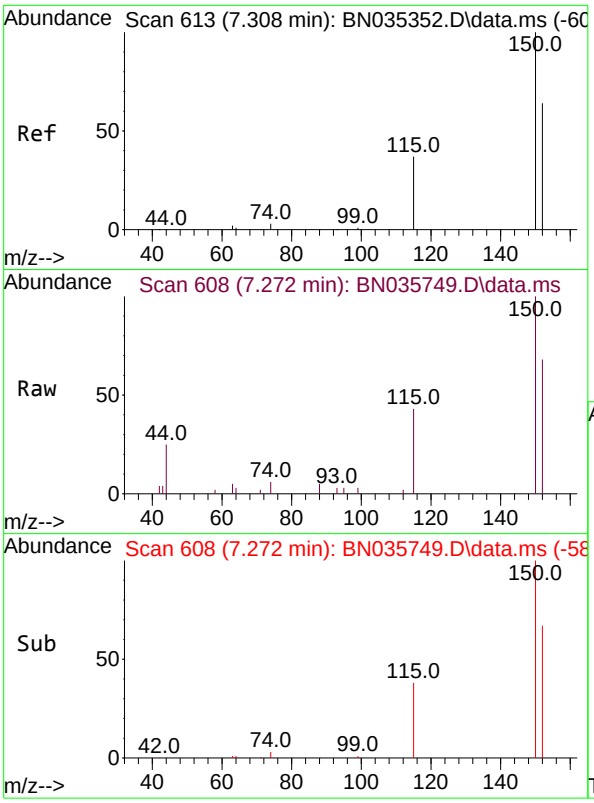
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035749.D
Acq On : 20 Dec 2024 19:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 40 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 21 01:43:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



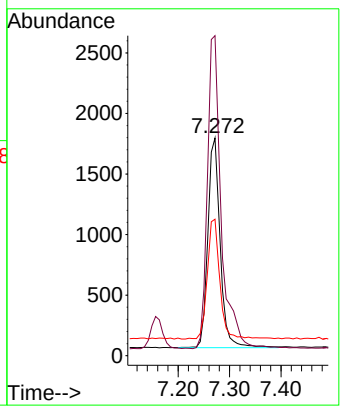


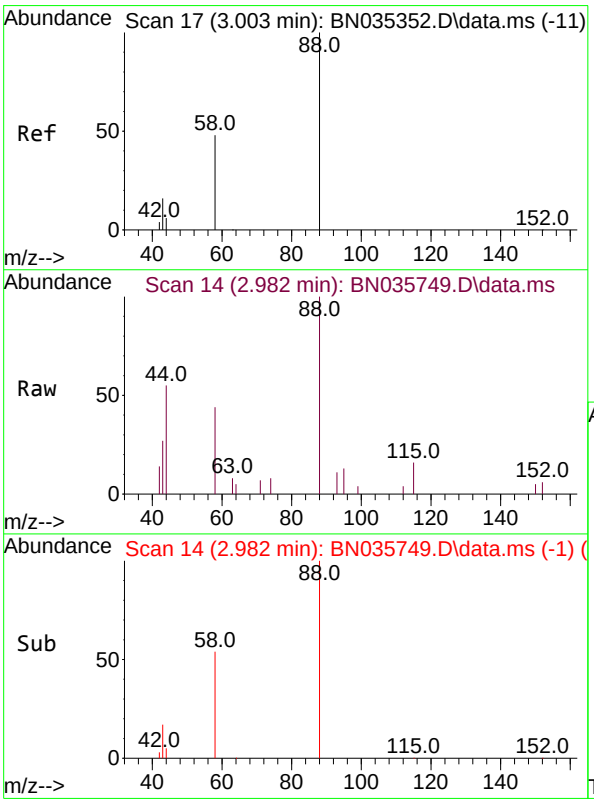
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.272 min Scan# 6(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2885

Ion	Ratio	Lower	Upper
152	100		
150	147.0	124.0	186.0
115	62.7	49.6	74.4

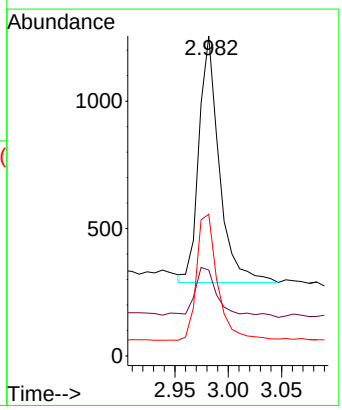


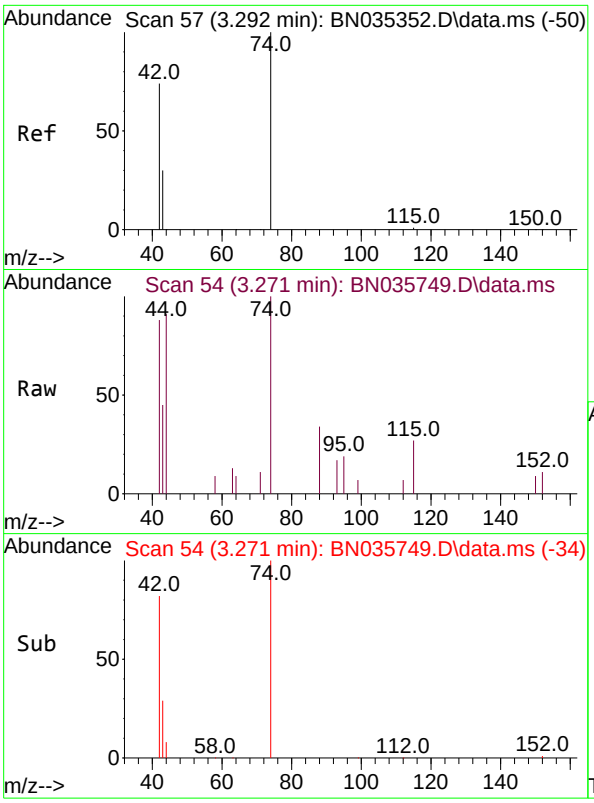


#2
1,4-Dioxane
Concen: 0.466 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 88 Resp: 1284

Ion	Ratio	Lower	Upper
88	100		
43	24.5	17.2	25.8
58	53.3	44.5	66.7



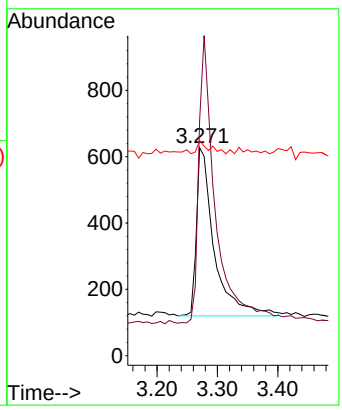


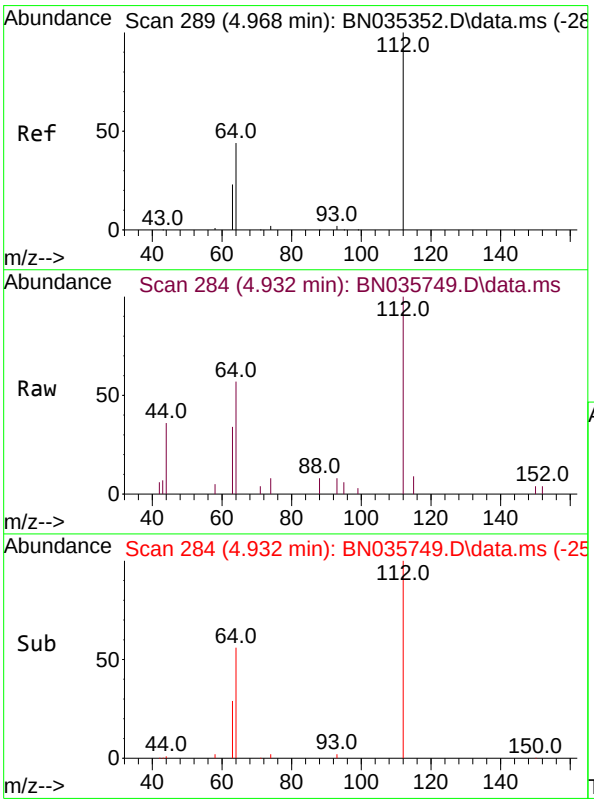
#3
n-Nitrosodimethylamine
Concen: 0.451 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1037

Ion	Ratio	Lower	Upper
42	100		
74	160.8	124.9	187.3
44	7.0	2.2	3.4#

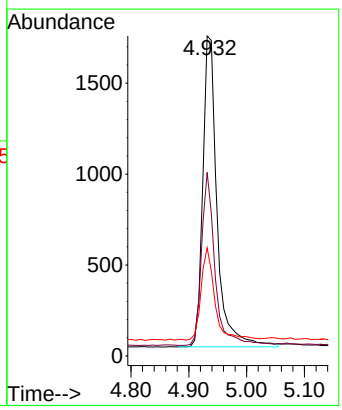


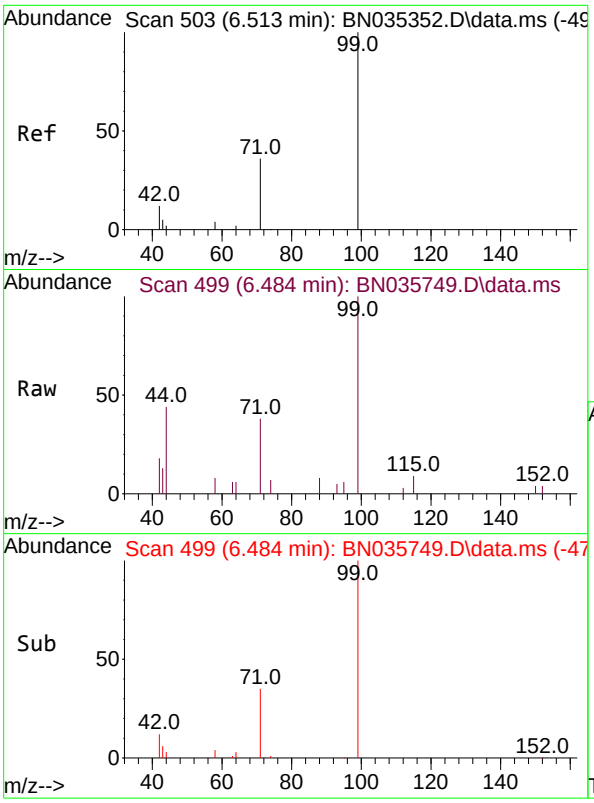


#4
2-Fluorophenol
Concen: 0.408 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:112 Resp: 2946

Ion	Ratio	Lower	Upper
112	100		
64	52.4	39.8	59.8
63	28.5	21.0	31.6



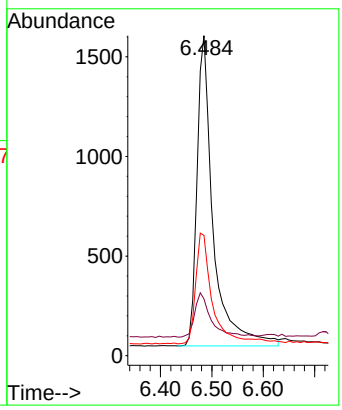


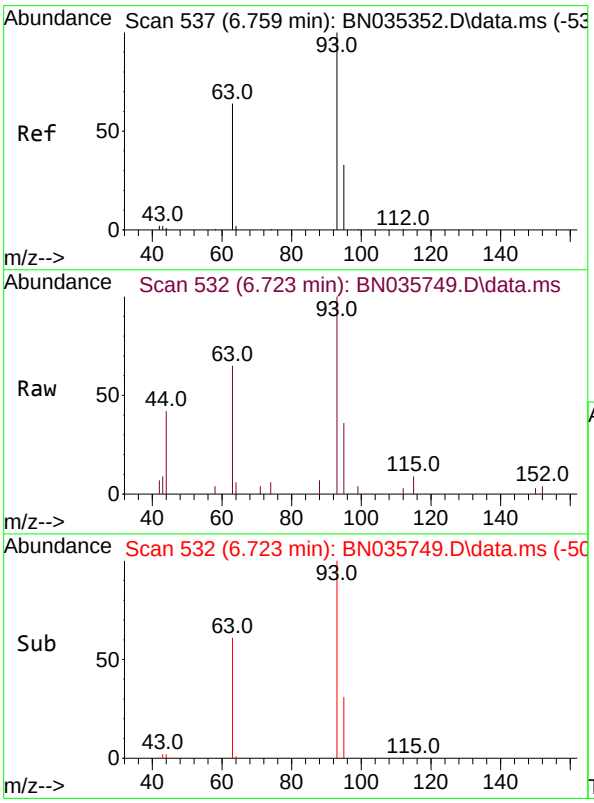
#5
Phenol-d6
Concen: 0.391 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 3398

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	37.5	29.3	43.9

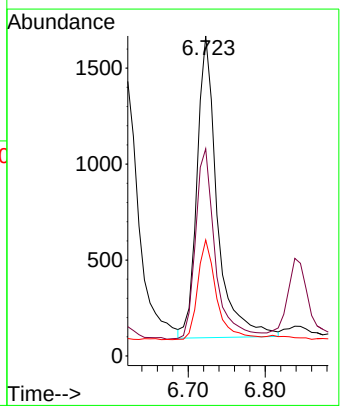


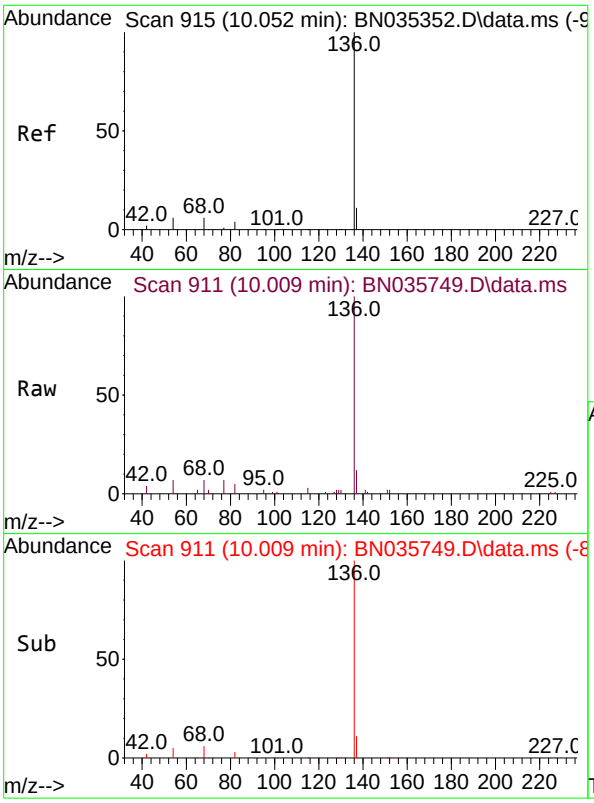


#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 93 Resp: 2854

Ion	Ratio	Lower	Upper
93	100		
63	62.2	50.4	75.6
95	31.1	25.7	38.5



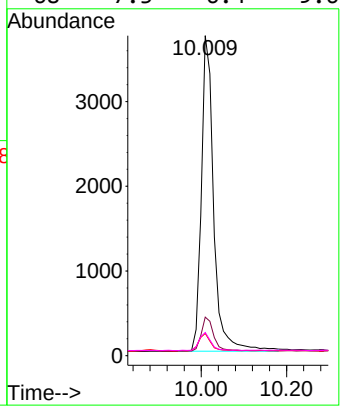


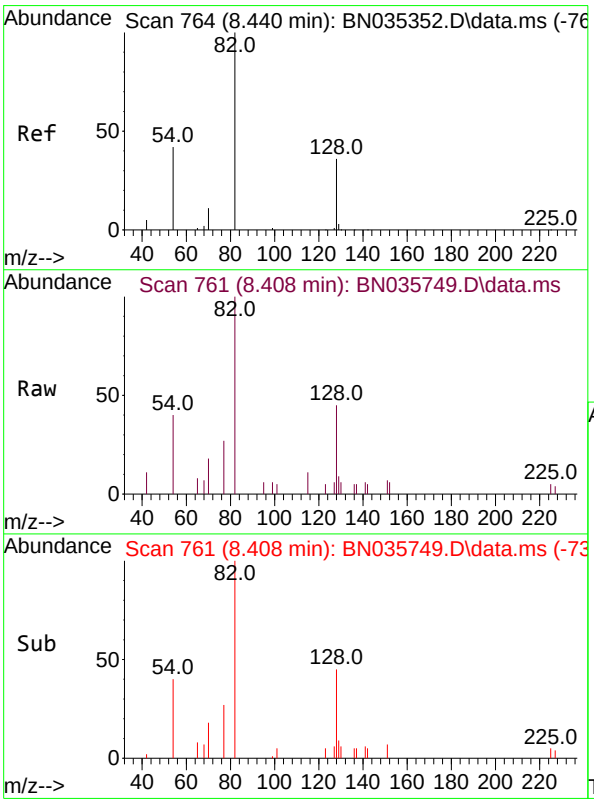
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 7460

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6

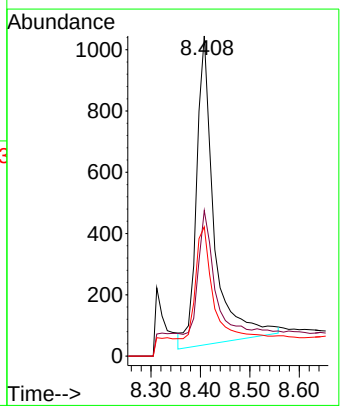


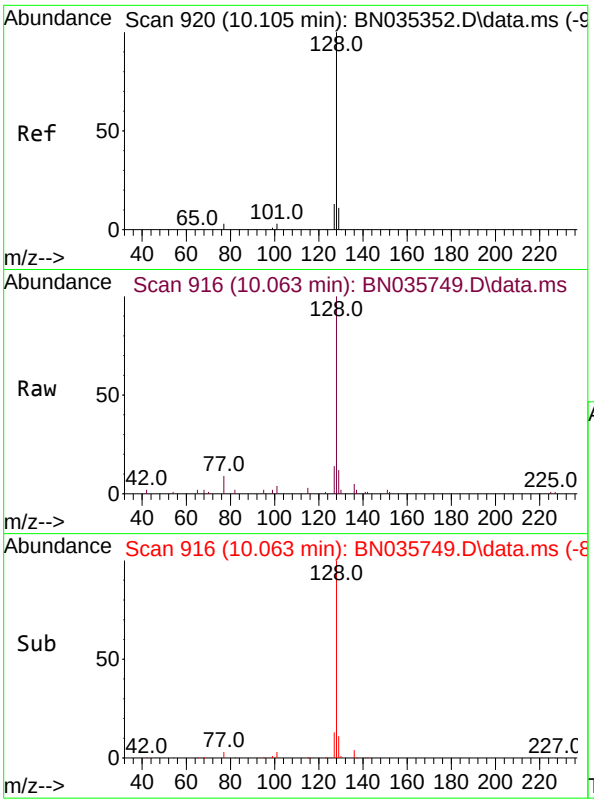


#8
Nitrobenzene-d5
Concen: 0.551 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion: 82 Resp: 2510

Ion	Ratio	Lower	Upper
82	100		
128	45.5	33.4	50.0
54	40.4	36.7	55.1



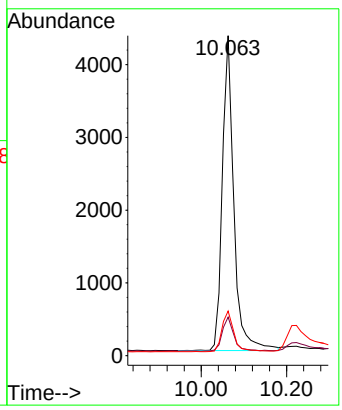


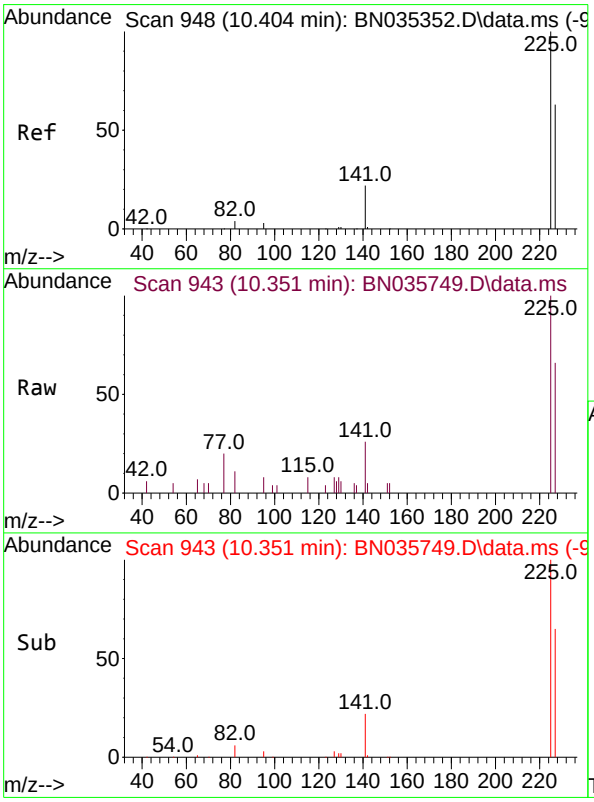
#9
Naphthalene
Concen: 0.412 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 8115

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.8	14.6
127	13.9	11.4	17.2

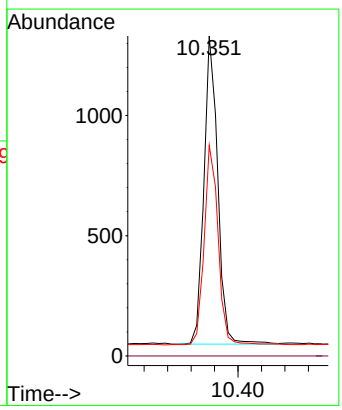


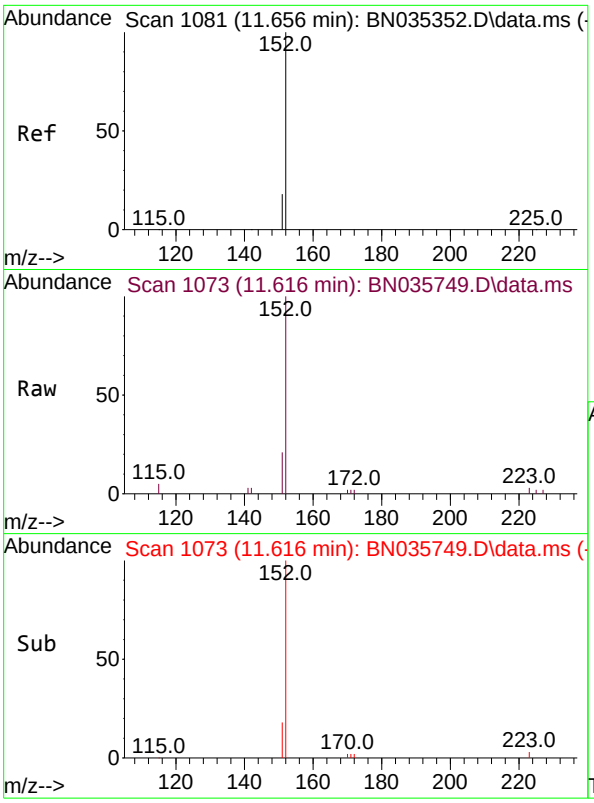


#10
Hexachlorobutadiene
Concen: 0.464 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:225 Resp: 2104

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	51.3	76.9



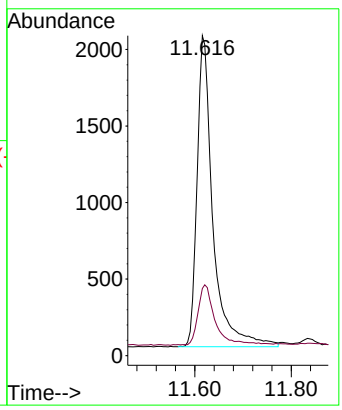


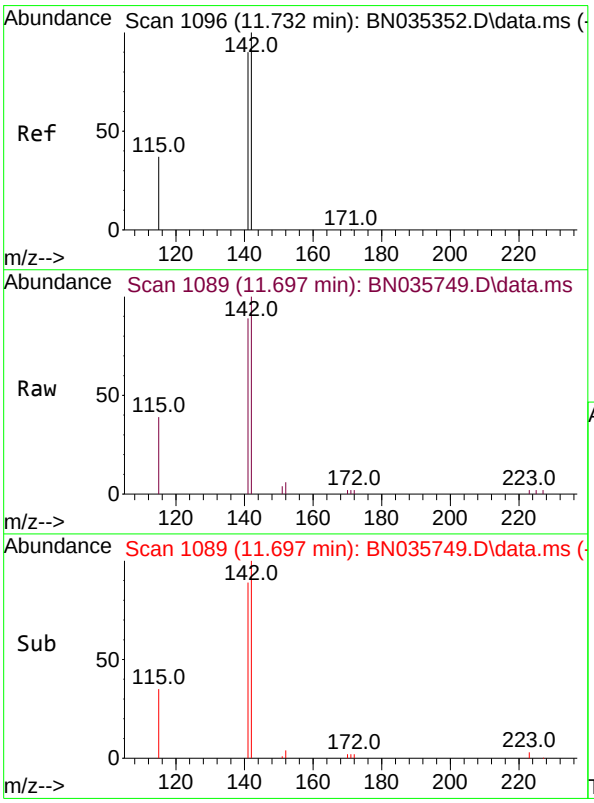
#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 4637

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0

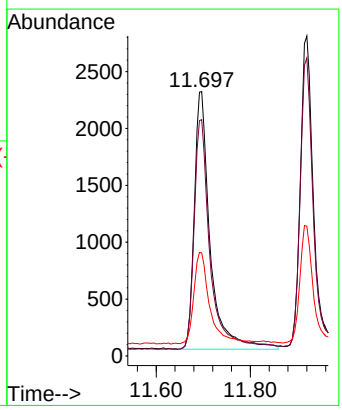


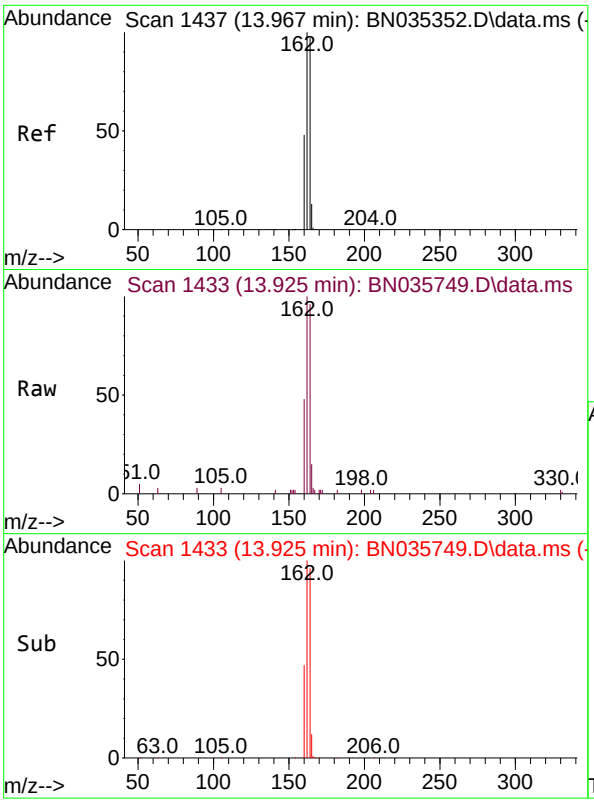


#12
2-Methylnaphthalene
Concen: 0.378 ng
RT: 11.697 min Scan# 1089
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:142 Resp: 5318

Ion	Ratio	Lower	Upper
142	100		
141	89.4	72.2	108.4
115	39.0	31.4	47.0



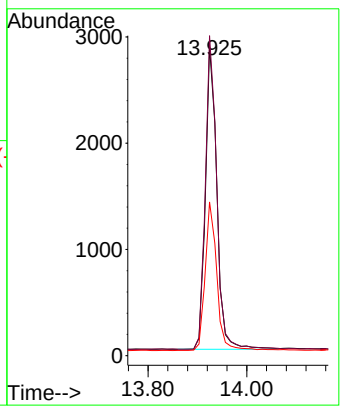


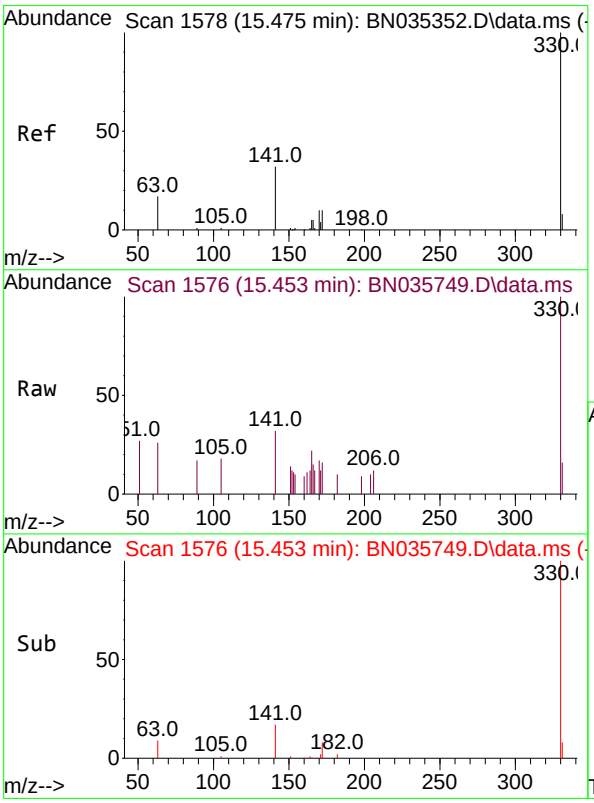
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 4592

Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.2	123.2
160	49.8	40.1	60.1

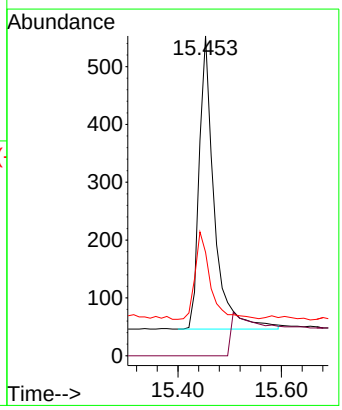


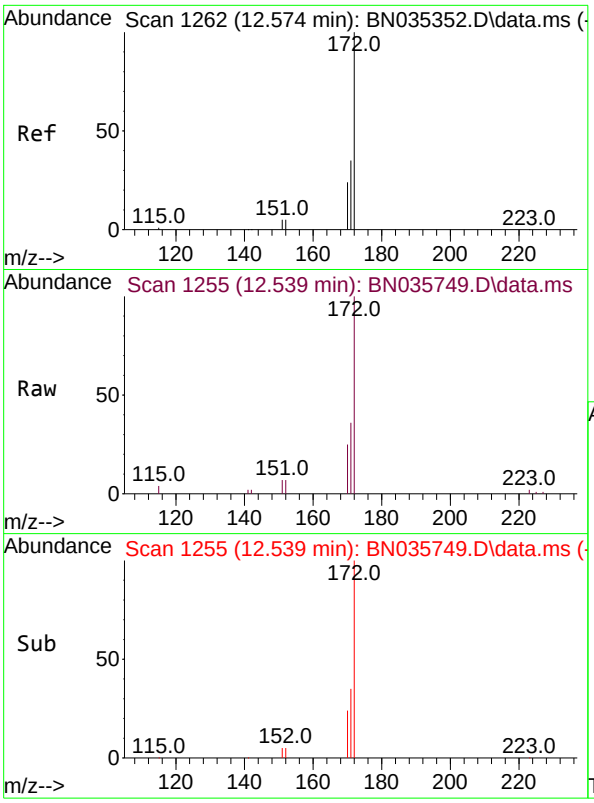


#14
2,4,6-Tribromophenol
Concen: 0.331 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:330 Resp: 1079

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.6	26.6	40.0



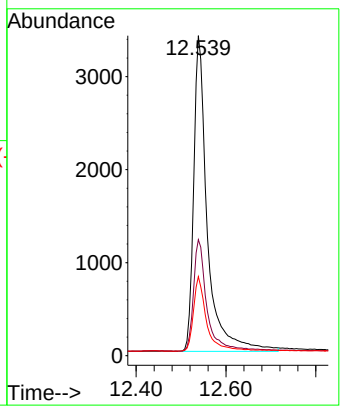


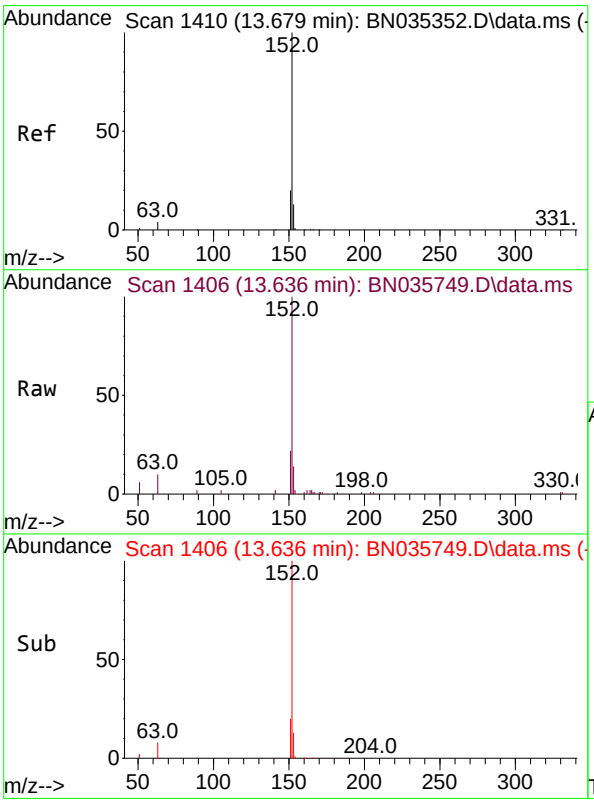
#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 7163

Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.0	43.4
170	24.7	19.8	29.8

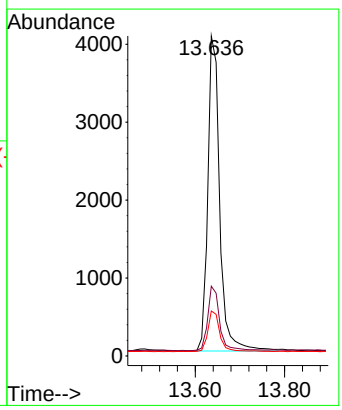


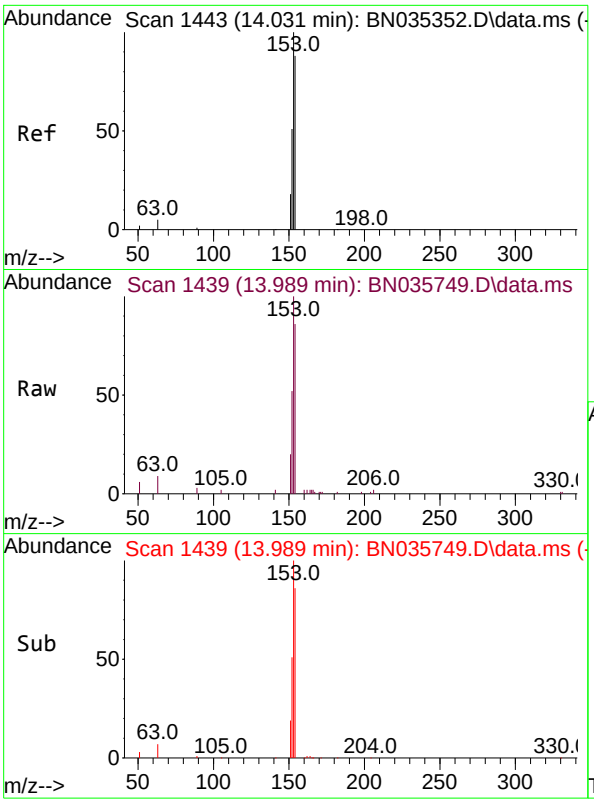


#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:152 Resp: 7458

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.2	10.4	15.6



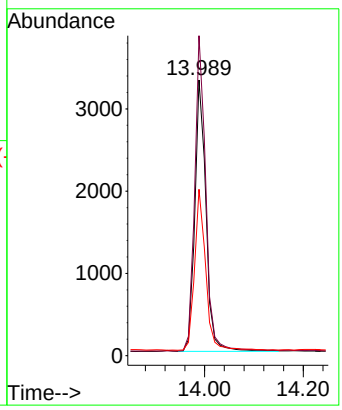


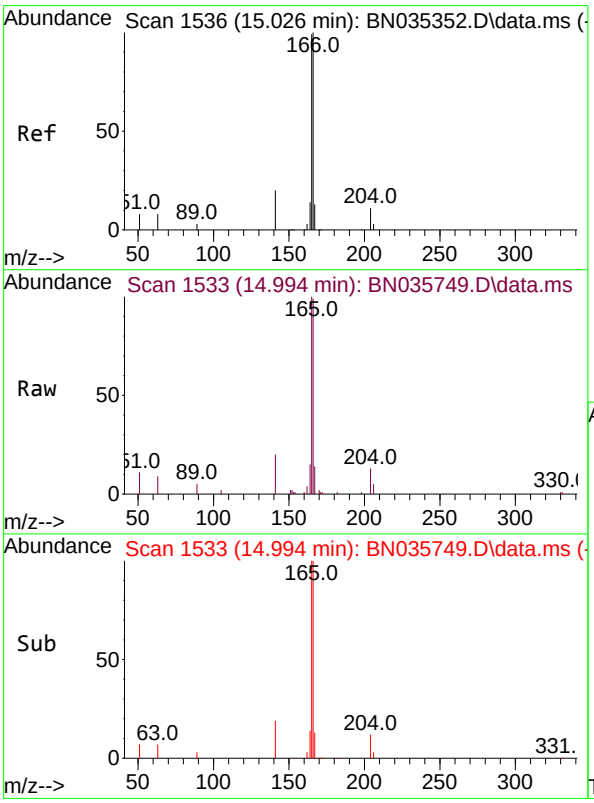
#17
Acenaphthene
Concen: 0.405 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 5179

Ion	Ratio	Lower	Upper
154	100		
153	115.5	92.6	139.0
152	59.2	49.0	73.6

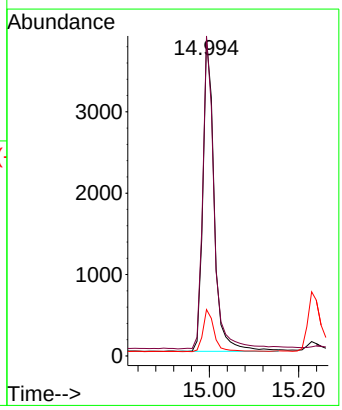


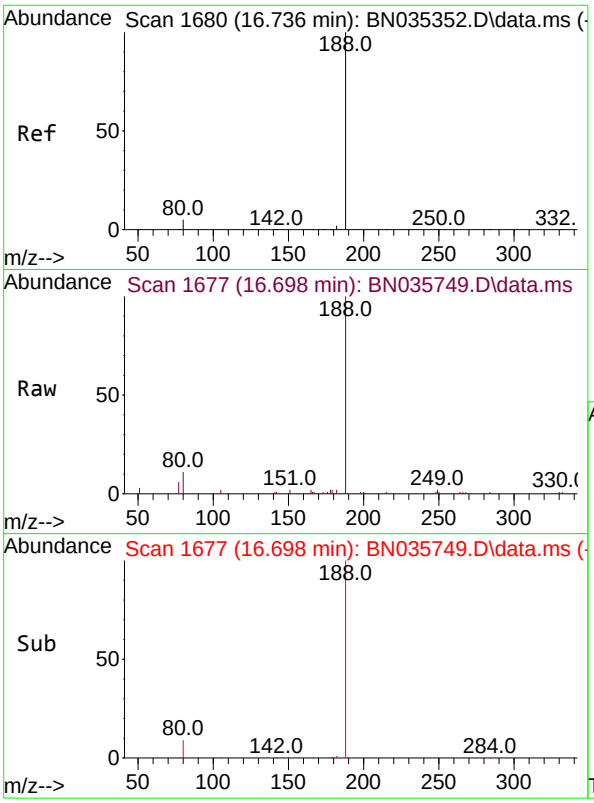


#18
Fluorene
Concen: 0.367 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:166 Resp: 6721

Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.7	119.5
167	13.6	10.8	16.2



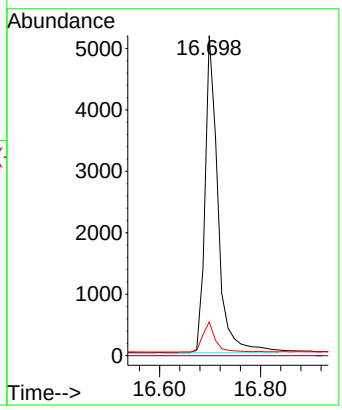


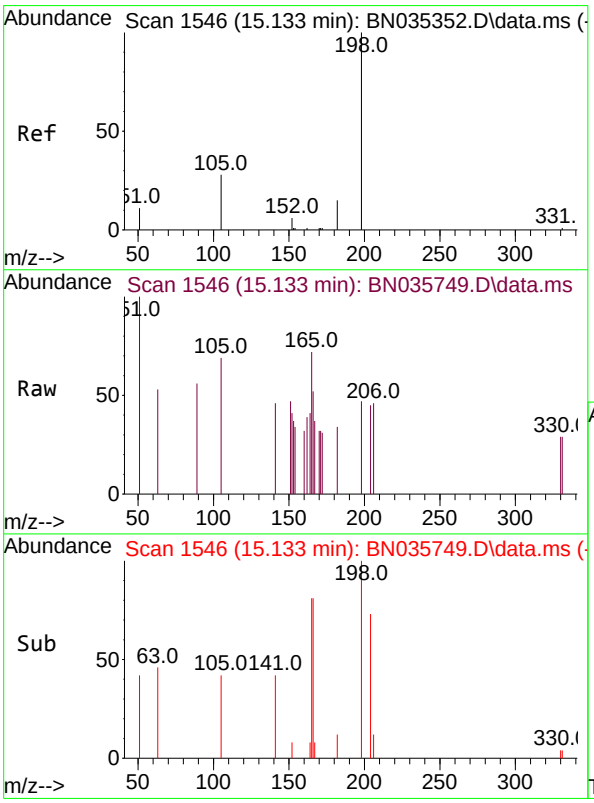
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 9182

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	4.6	6.8#

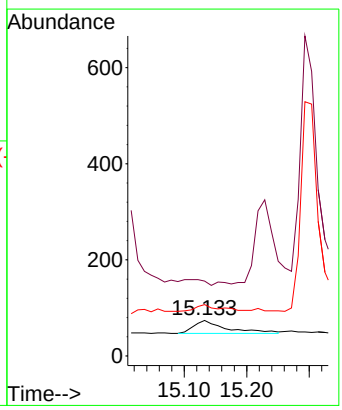


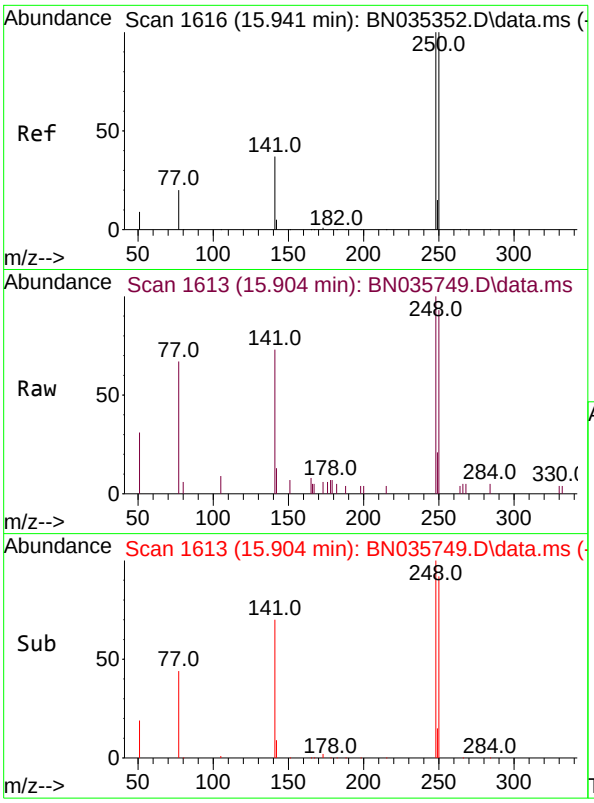


#20
4,6-Dinitro-2-methylphenol
Concen: 0.110 ng
RT: 15.133 min Scan# 1546
Delta R.T. 0.011 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:198 Resp: 99

Ion	Ratio	Lower	Upper
198	100		
51	210.8	46.5	69.7#
105	144.6	45.3	67.9#



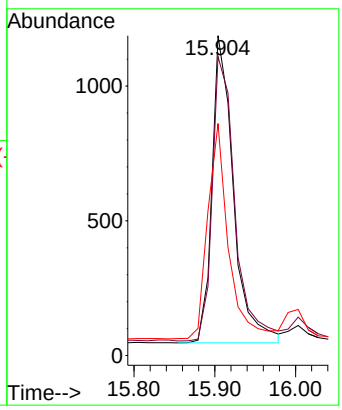


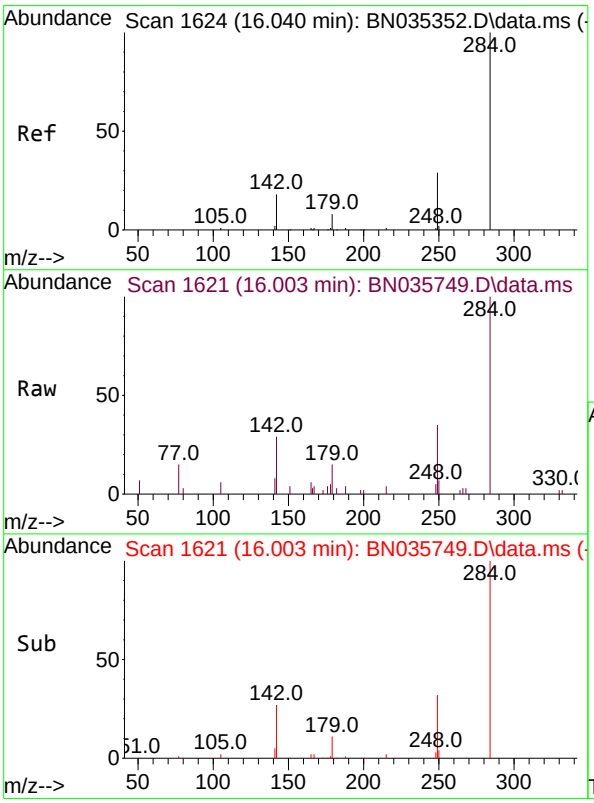
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2111

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.6	120.8
141	72.5	31.5	47.3#

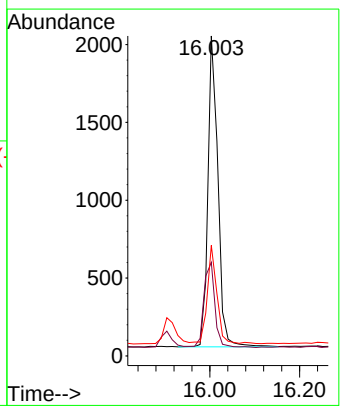


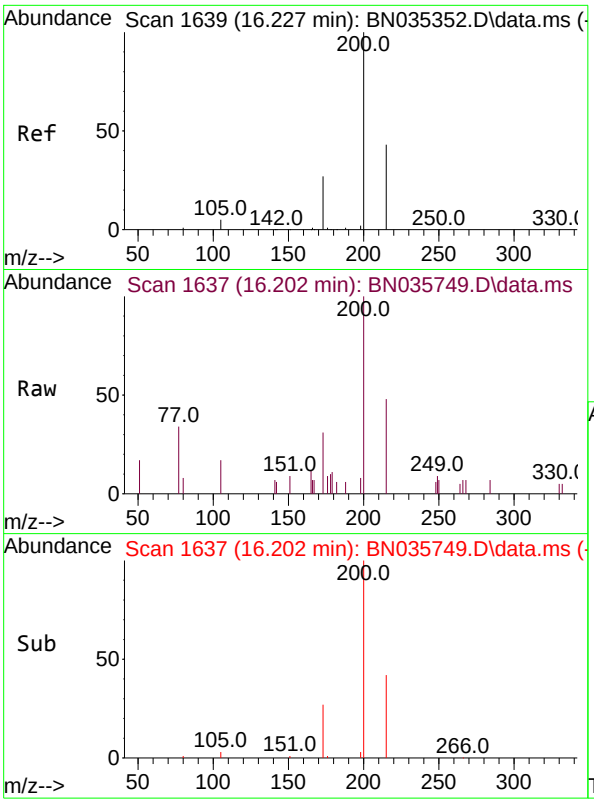


#22
Hexachlorobenzene
Concen: 0.487 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:284 Resp: 3074

Ion	Ratio	Lower	Upper
284	100		
142	30.3	26.7	40.1
249	29.7	24.6	36.8



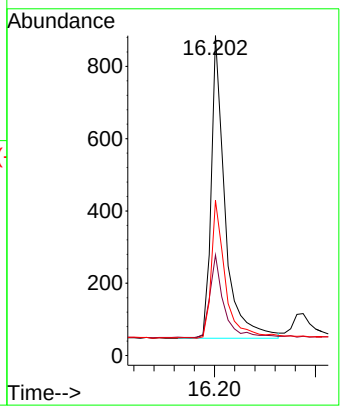


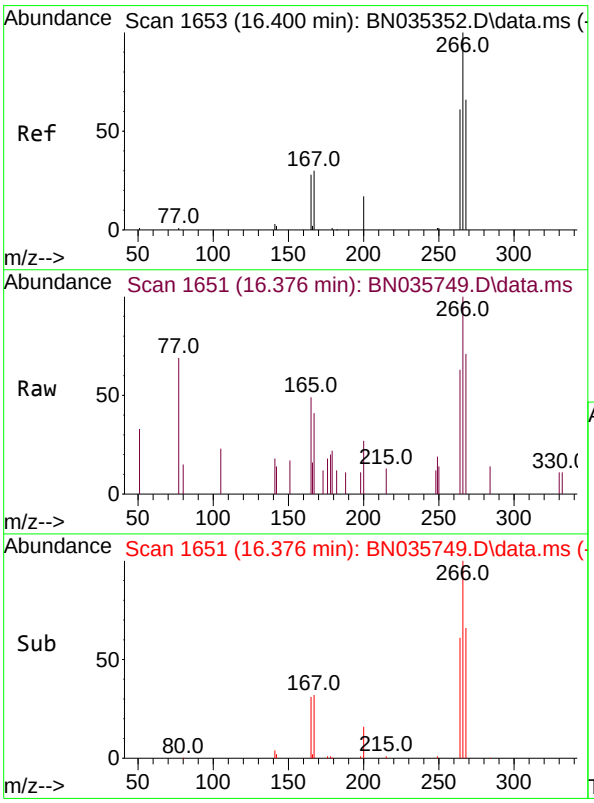
#23
Atrazine
Concen: 0.414 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1584

Ion	Ratio	Lower	Upper
200	100		
173	31.4	24.1	36.1
215	48.5	36.9	55.3

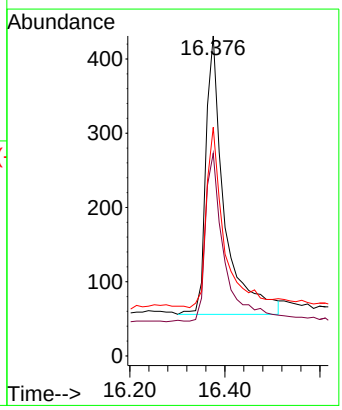


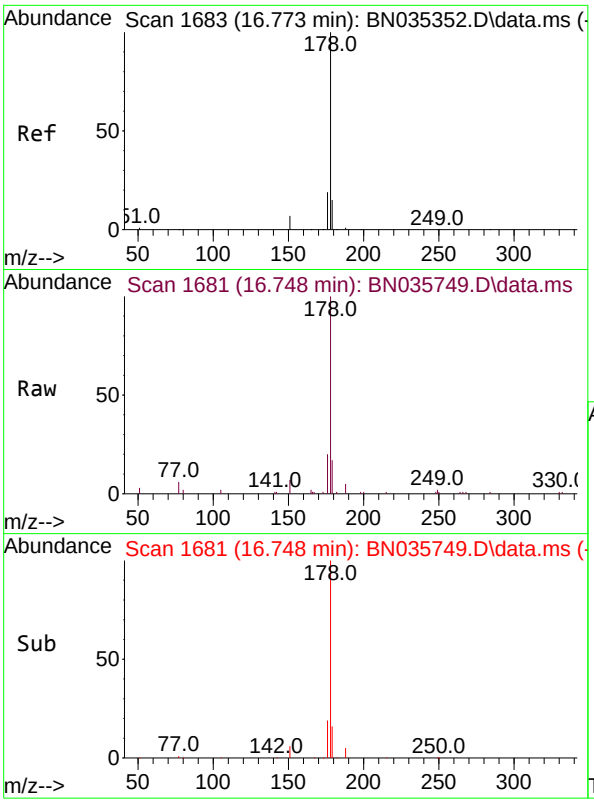


#24
Pentachlorophenol
Concen: 0.370 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:266 Resp: 1014

Ion	Ratio	Lower	Upper
266	100		
264	61.4	42.3	63.5
268	64.0	43.3	64.9



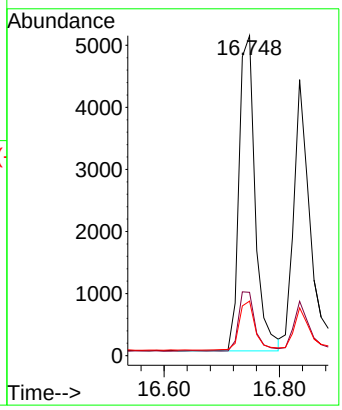


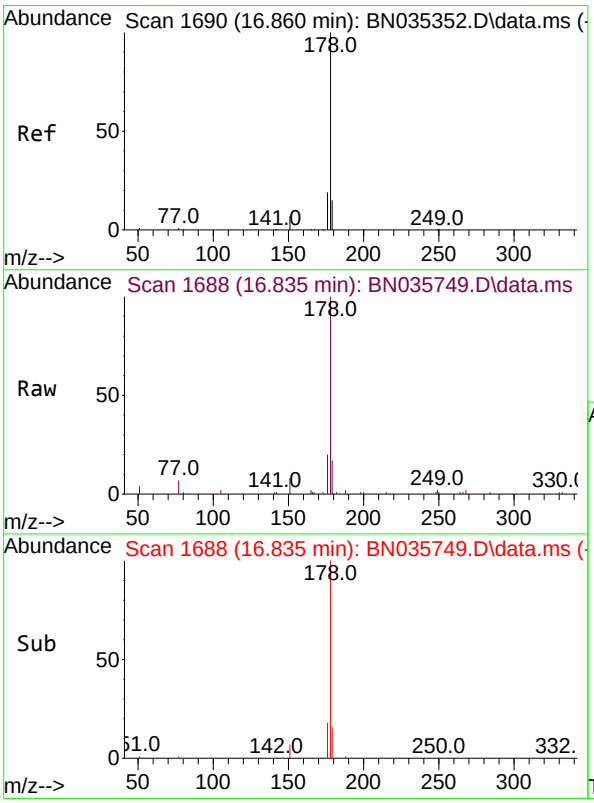
#25
Phenanthrene
Concen: 0.391 ng
RT: 16.748 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 9861

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

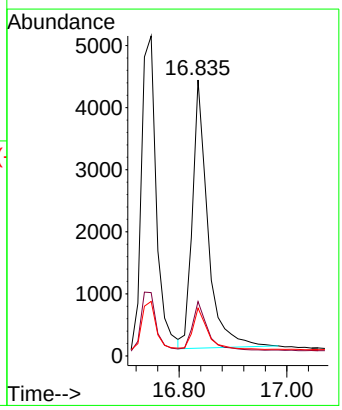


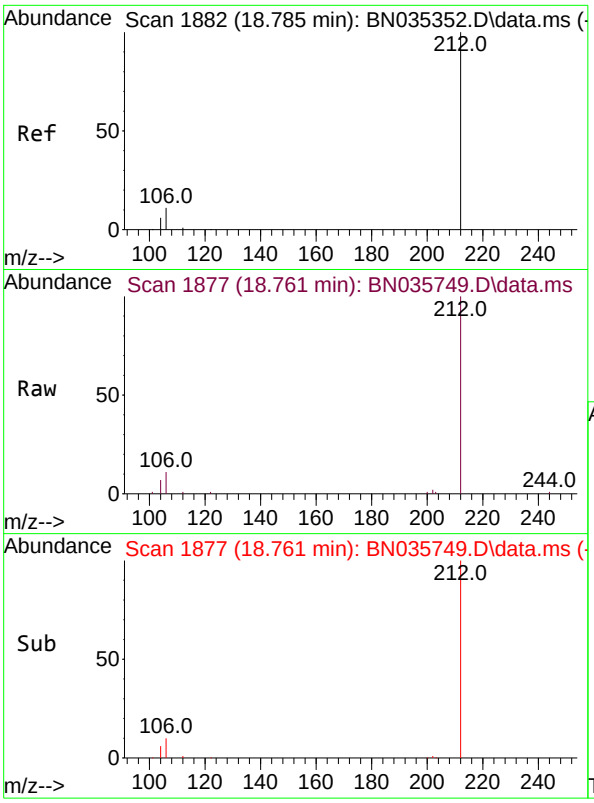


#26
Anthracene
Concen: 0.378 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:178 Resp: 8624

Ion	Ratio	Lower	Upper
178	100		
176	18.2	15.0	22.6
179	15.3	12.6	18.8



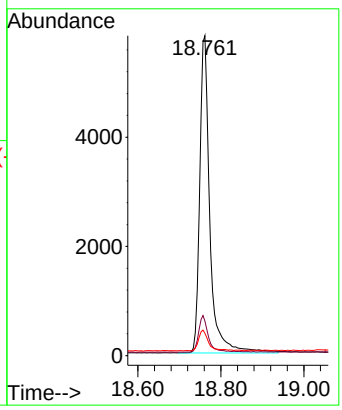


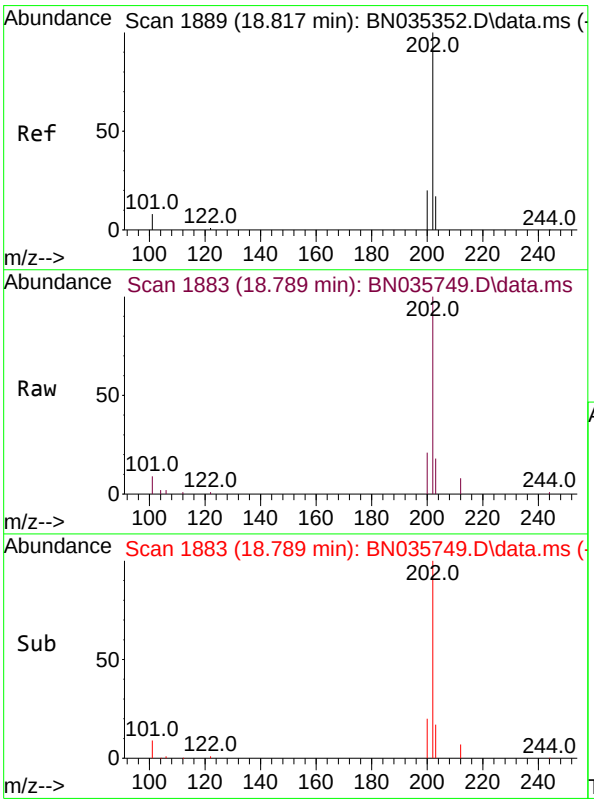
#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 9858

Ion	Ratio	Lower	Upper
212	100		
106	11.0	9.2	13.8
104	6.4	5.3	7.9

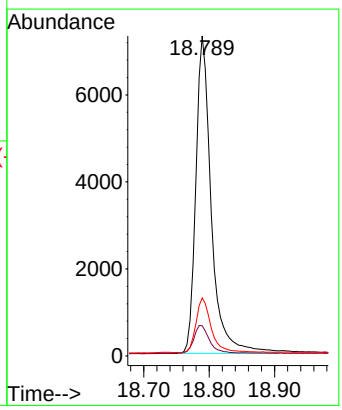


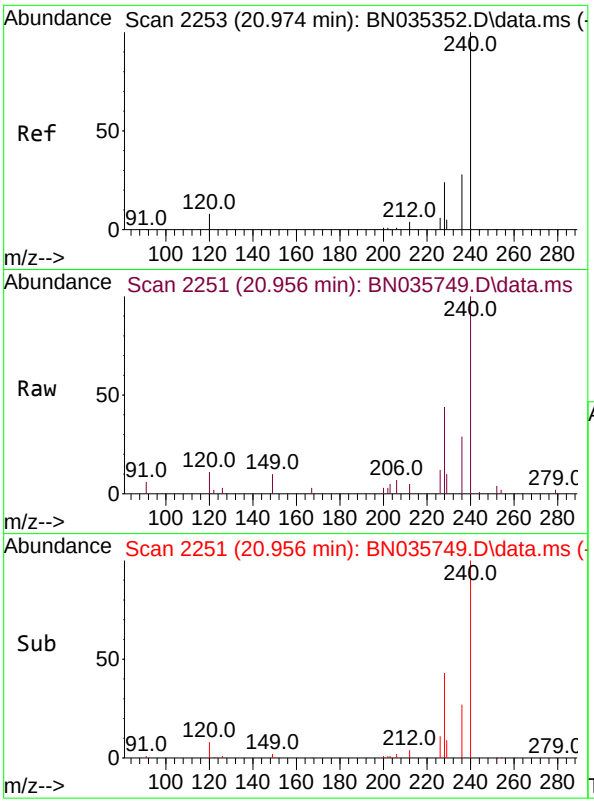


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12002

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	17.1	13.7	20.5



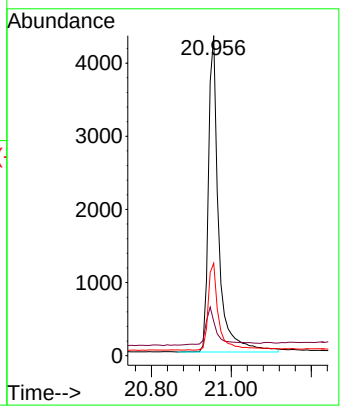


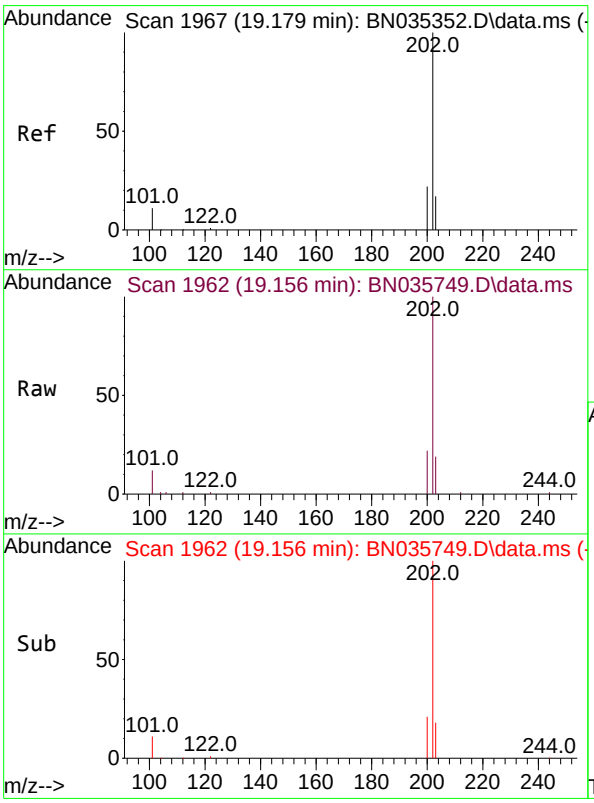
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.956 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 7719

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3

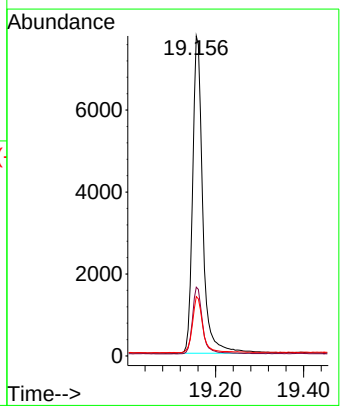


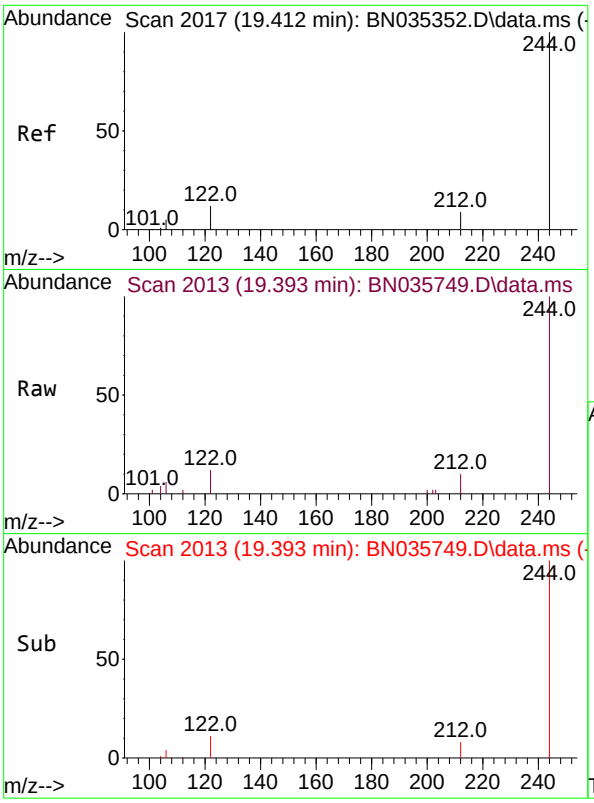


#30
Pyrene
Concen: 0.438 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:202 Resp: 12468

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.8	14.3	21.5



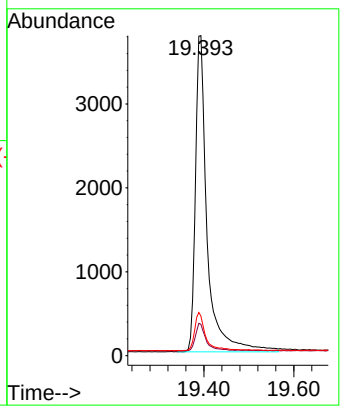


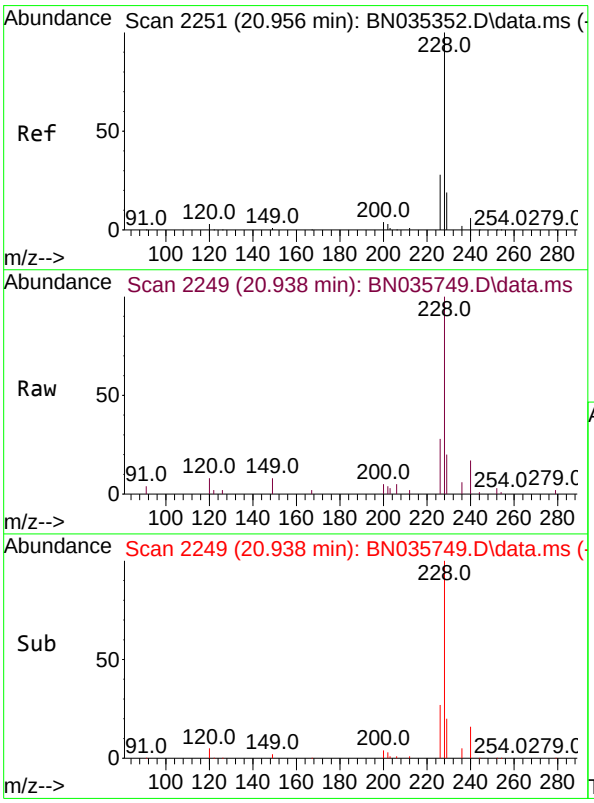
#31
Terphenyl-d14
Concen: 0.452 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 6880

Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.1	12.1
122	12.4	10.3	15.5

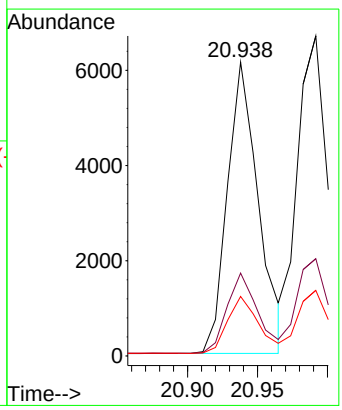


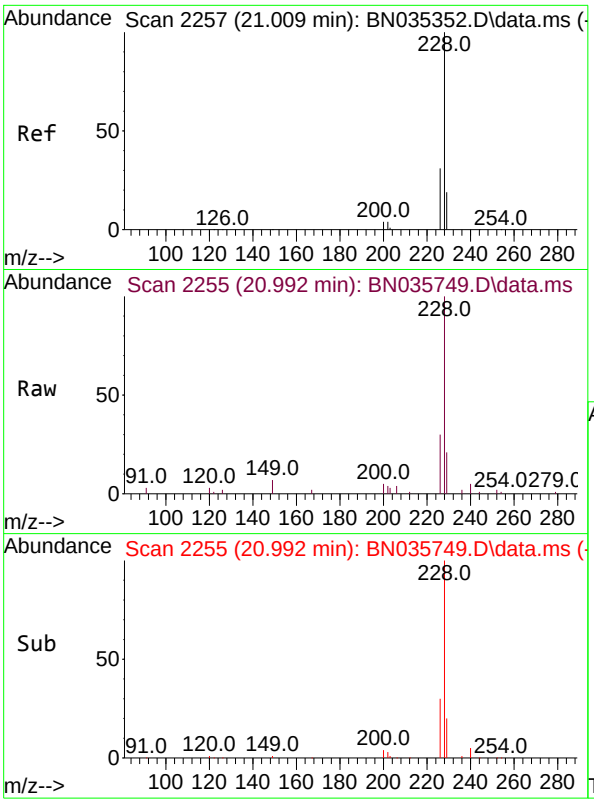


#32
Benzo(a)anthracene
Concen: 0.351 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:228 Resp: 9472

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.5	33.7
229	20.3	15.8	23.8



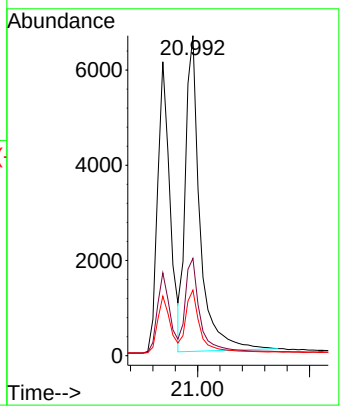


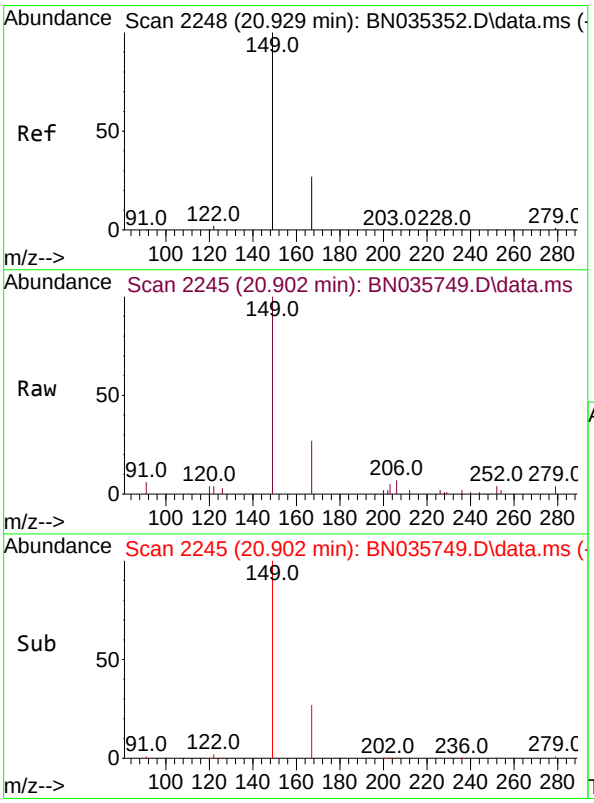
#33
Chrysene
Concen: 0.429 ng
RT: 20.992 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 11952

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.5	15.9	23.9

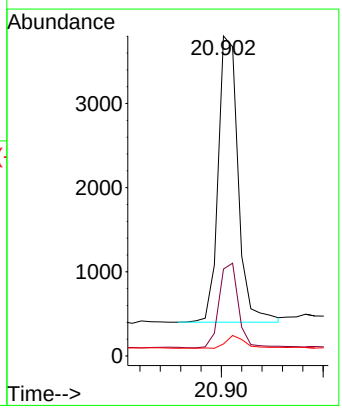


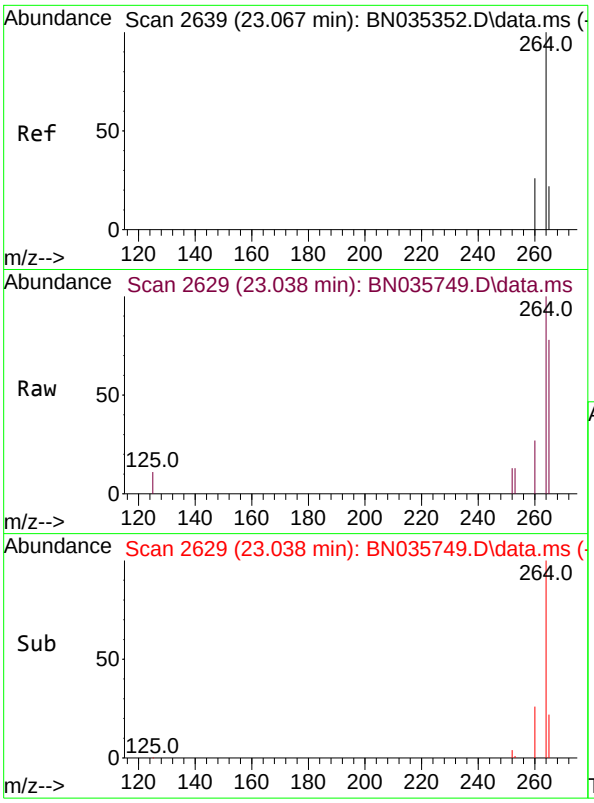


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.434 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:149 Resp: 4632

Ion	Ratio	Lower	Upper
149	100		
167	28.9	22.2	33.4
279	4.5	2.7	4.1#



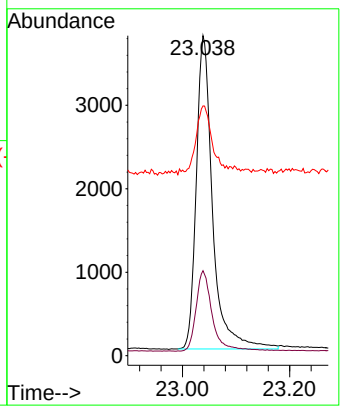


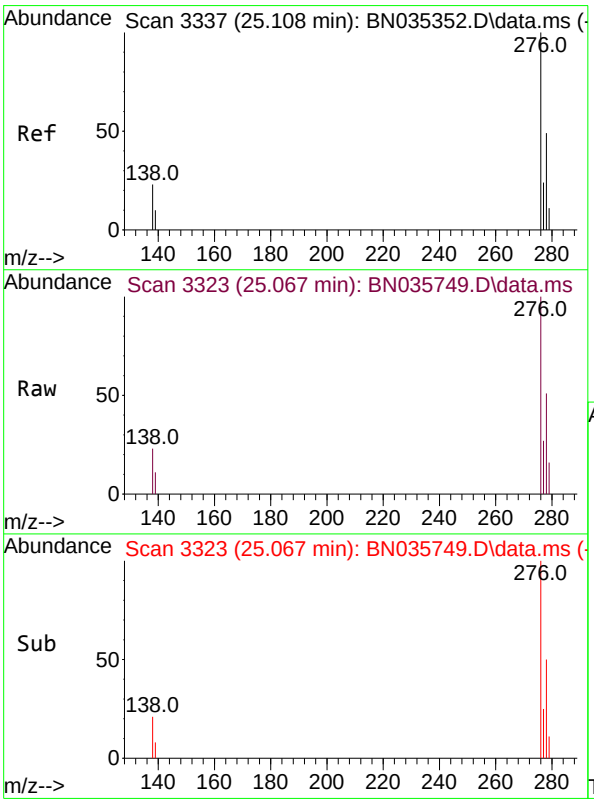
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.038 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 7943

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	78.1	40.2	60.4#

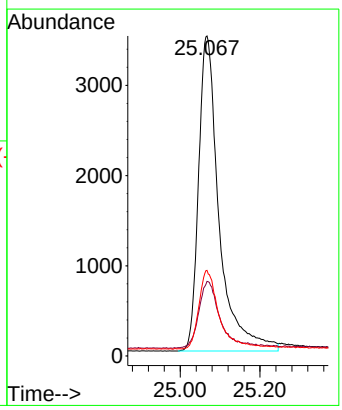


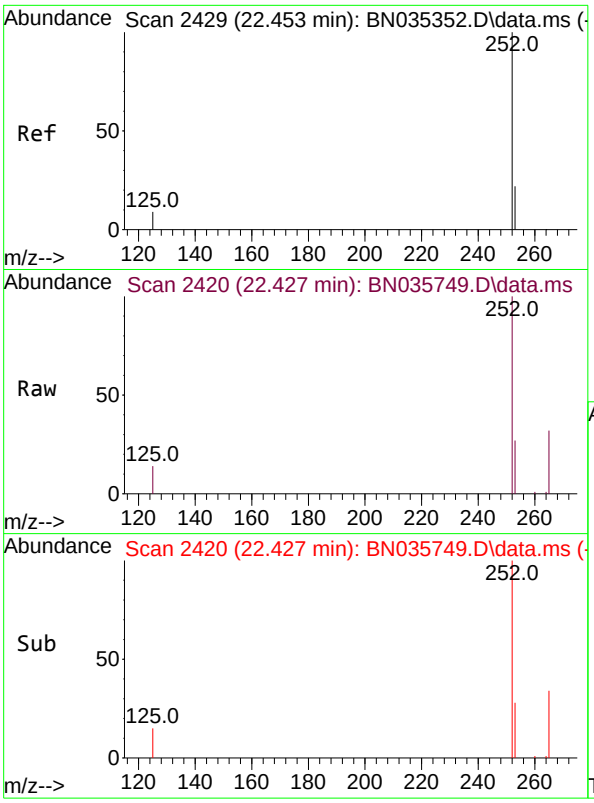


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.404 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:276 Resp: 12531

Ion	Ratio	Lower	Upper
276	100		
138	21.0	19.4	29.0
277	24.2	19.8	29.6



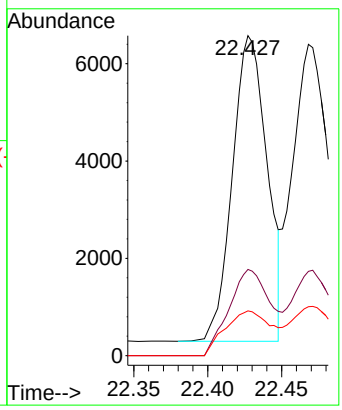


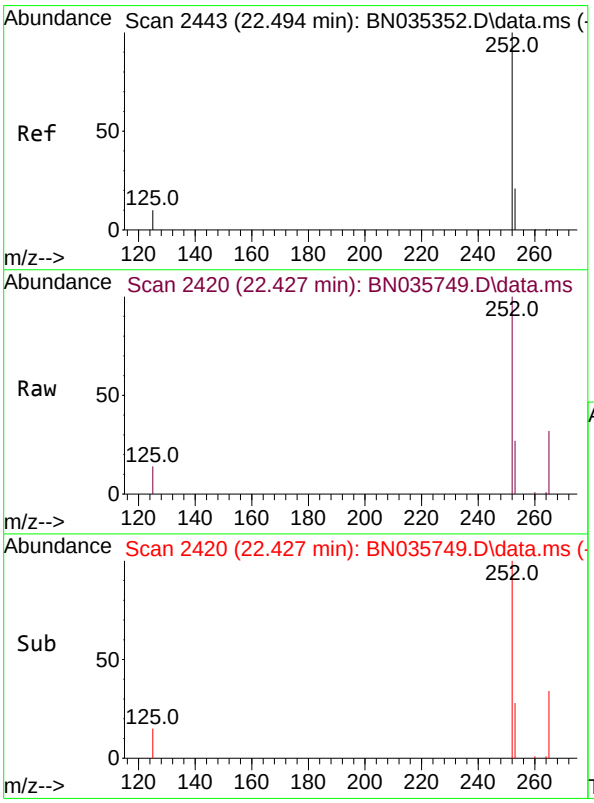
#37
Benzo(b)fluoranthene
Concen: 0.472 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 13708

Ion	Ratio	Lower	Upper
252	100		
253	26.9	19.6	29.4
125	14.0	9.6	14.4

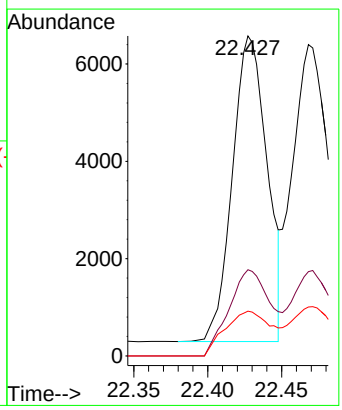


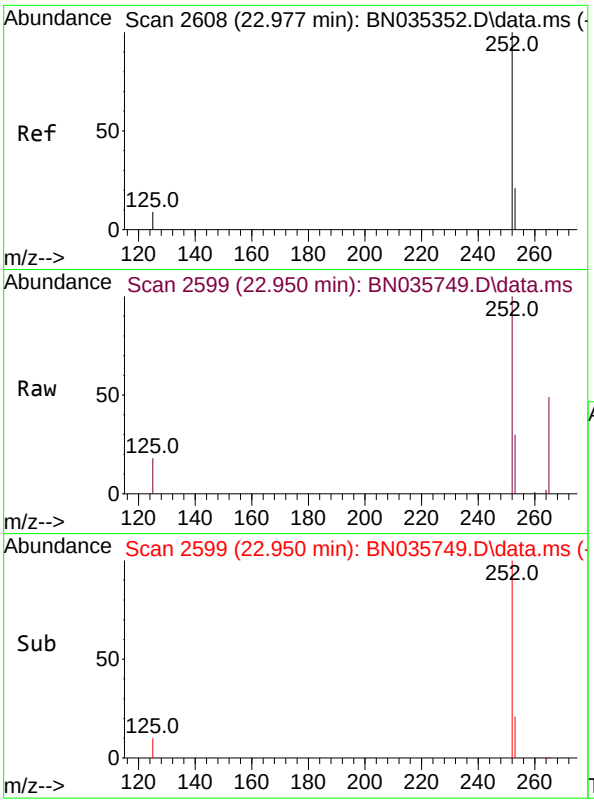


#38
Benzo(k)fluoranthene
Concen: 0.479 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:252 Resp: 13708

Ion	Ratio	Lower	Upper
252	100		
253	26.9	19.5	29.3
125	14.0	10.2	15.4



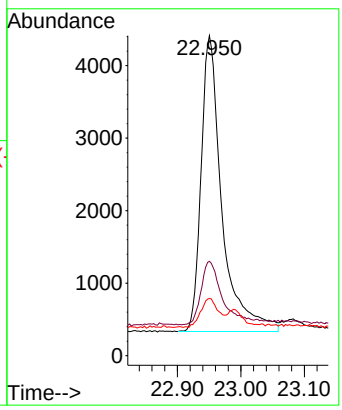


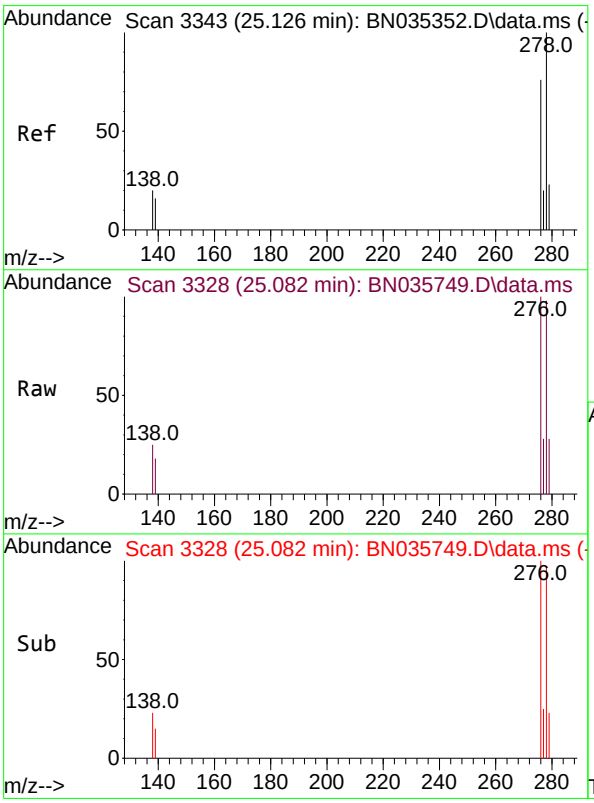
#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 22.950 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 9304

Ion	Ratio	Lower	Upper
252	100		
253	29.5	20.2	30.4
125	17.9	10.9	16.3#

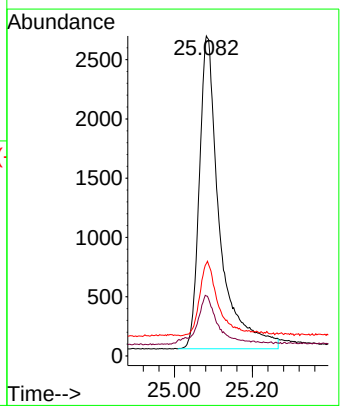


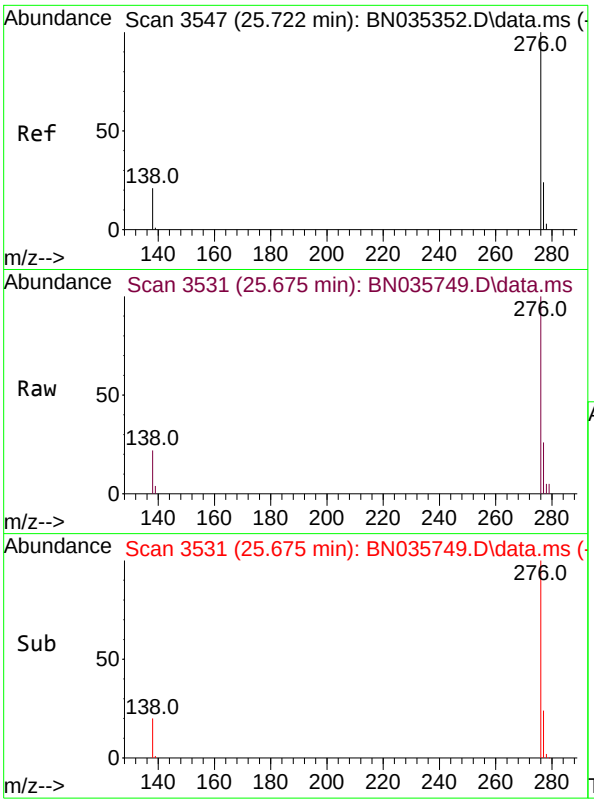


#40
Dibenzo(a,h)anthracene
Concen: 0.389 ng
RT: 25.082 min Scan# 3328
Delta R.T. -0.000 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Tgt Ion:278 Resp: 9530

Ion	Ratio	Lower	Upper
278	100		
139	18.7	14.2	21.4
279	28.9	20.5	30.7



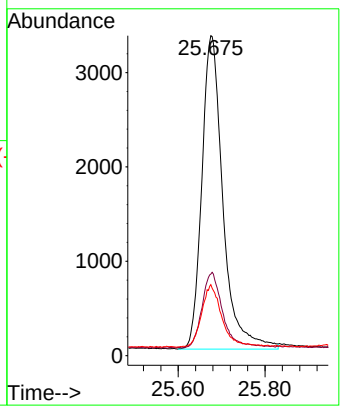


#41
Benzo(g,h,i)perylene
Concen: 0.438 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035749.D
Acq: 20 Dec 2024 19:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11213

Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.9	29.9
138	22.2	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035764.D
Acq On : 21 Dec 2024 04:34
Operator : RC/JU
Sample : PB165724BS
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Quant Time: Dec 21 05:09:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	7.271	152	2647	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	6538	0.400	ng	-0.01
13) Acenaphthene-d10	13.924	164	3740	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	6891	0.400	ng	# 0.00
29) Chrysene-d12	20.955	240	6144	0.400	ng	0.00
35) Perylene-d12	23.041	264	6576	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.939	112	2510	0.379	ng	0.00
5) Phenol-d6	6.484	99	2665	0.334	ng	0.00
8) Nitrobenzene-d5	8.407	82	2346	0.587	ng	0.00
11) 2-Methylnaphthalene-d10	11.615	152	5689	0.556	ng	0.00
14) 2,4,6-Tribromophenol	15.453	330	453	0.171	ng	0.00
15) 2-Fluorobiphenyl	12.538	172	6506	0.460	ng	0.00
27) Fluoranthene-d10	18.761	212	8504	0.435	ng	0.00
31) Terphenyl-d14	19.393	244	6077	0.501	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.981	88	1209	0.478	ng	# 64
3) n-Nitrosodimethylamine	3.270	42	1089	0.517	ng	# 97
6) bis(2-Chloroethyl)ether	6.722	93	2779	0.415	ng	99
9) Naphthalene	10.062	128	7464	0.433	ng	99
10) Hexachlorobutadiene	10.351	225	1928	0.485	ng	# 99
12) 2-Methylnaphthalene	11.691	142	4846	0.393	ng	97
16) Acenaphthylene	13.636	152	6779	0.432	ng	99
17) Acenaphthene	13.988	154	4529	0.434	ng	98
18) Fluorene	14.993	166	5492	0.368	ng	100
20) 4,6-Dinitro-2-methylph...	15.143	198	74	0.109	ng	# 1
21) 4-Bromophenyl-phenylether	15.916	248	1621	0.402	ng	# 92
22) Hexachlorobenzene	16.003	284	2441	0.516	ng	96
23) Atrazine	16.214	200	1272	0.443	ng	94
24) Pentachlorophenol	16.375	266	1192	0.579	ng	# 84
25) Phenanthrene	16.748	178	7957	0.420	ng	99
26) Anthracene	16.835	178	7046	0.412	ng	100
28) Fluoranthene	18.794	202	9671	0.379	ng	99
30) Pyrene	19.161	202	10032	0.442	ng	99
32) Benzo(a)anthracene	20.937	228	8148	0.379	ng	99
33) Chrysene	20.991	228	10584	0.478	ng	99
34) Bis(2-ethylhexyl)phtha...	20.902	149	3462	0.408	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.067	276	11390	0.443	ng	96
37) Benzo(b)fluoranthene	22.430	252	13899	0.578	ng	# 94
38) Benzo(k)fluoranthene	22.471	252	10950	0.462	ng	94
39) Benzo(a)pyrene	22.956	252	8888	0.449	ng	# 88
40) Dibenzo(a,h)anthracene	25.090	278	8351	0.412	ng	95
41) Benzo(g,h,i)perylene	25.678	276	9596	0.453	ng	98

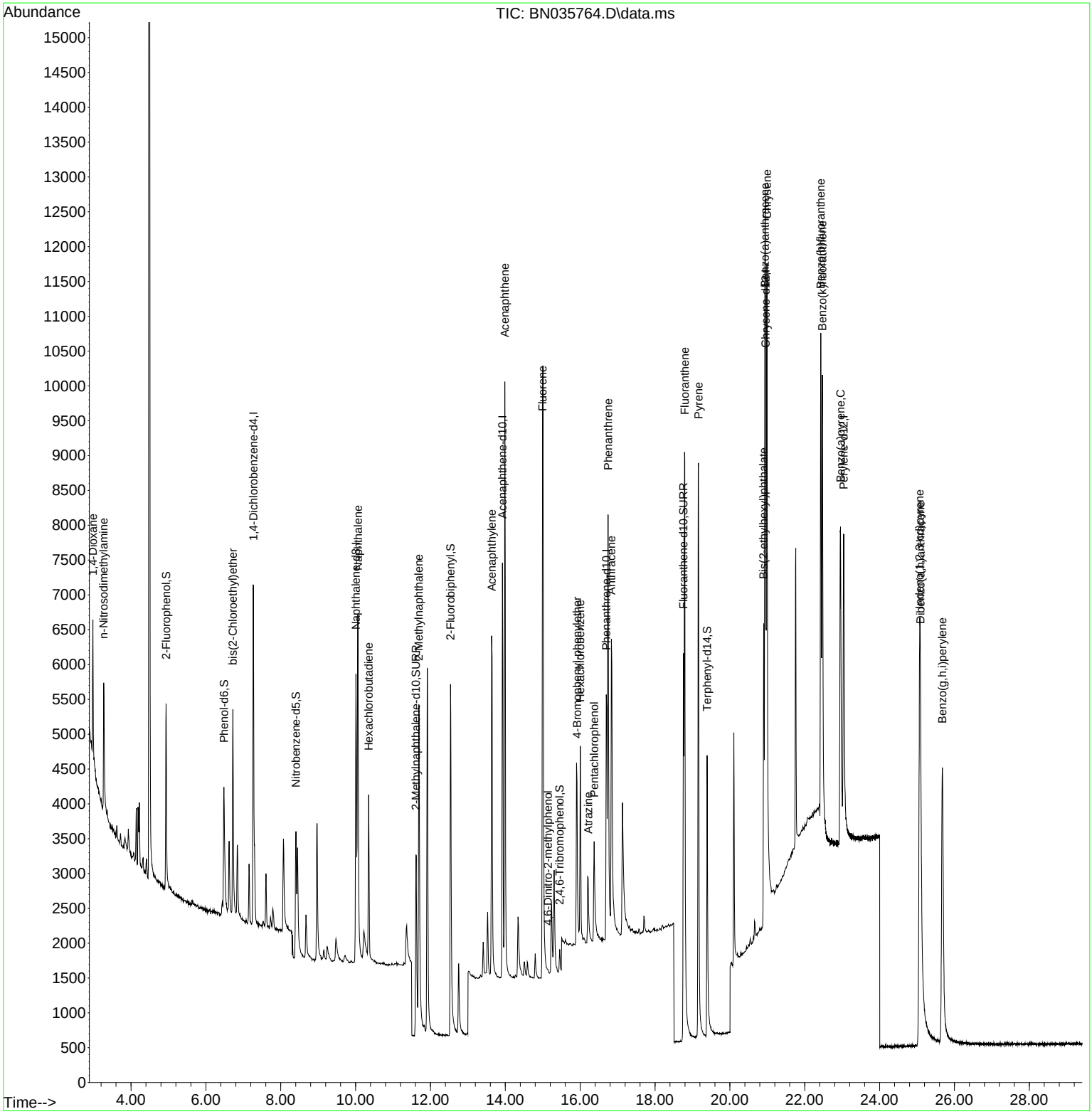
(#) = qualifier out of range (m) = manual integration (+) = signals summed

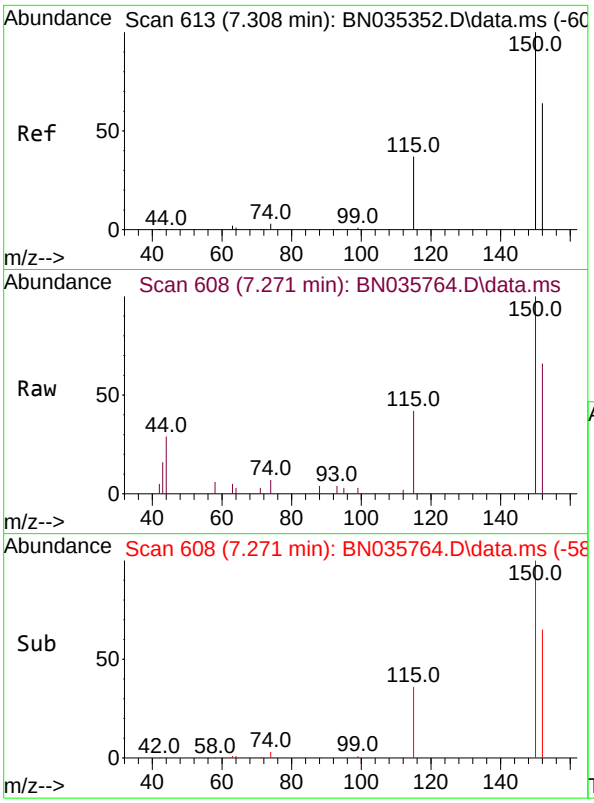
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035764.D
Acq On : 21 Dec 2024 04:34
Operator : RC/JU
Sample : PB165724BS
Misc :
ALS Vial : 55 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Quant Time: Dec 21 05:09:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



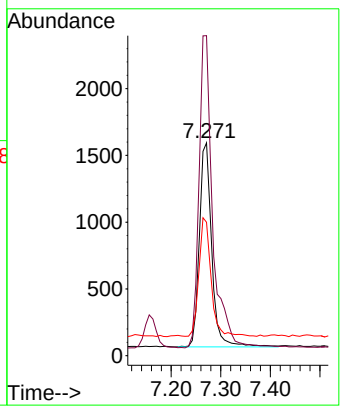


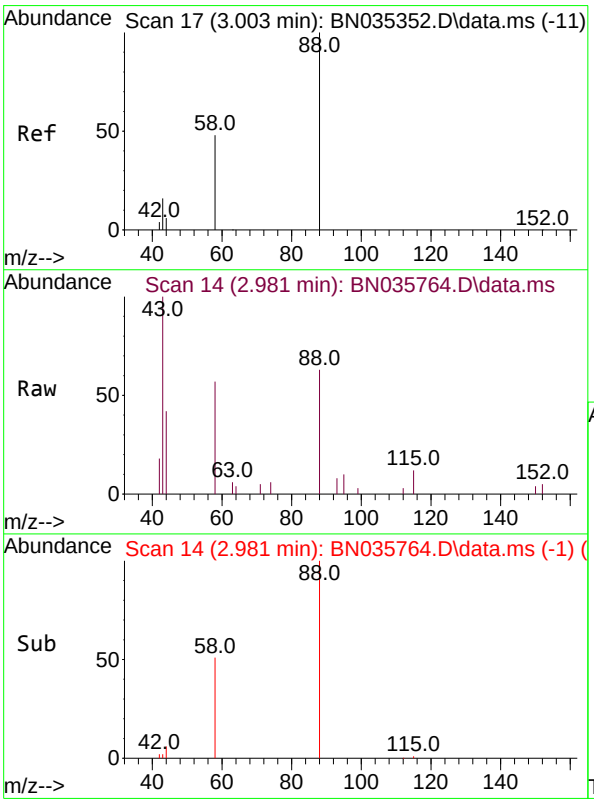
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.271 min Scan# 6(
Delta R.T. -0.001 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:152 Resp: 2647

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	62.7	49.6	74.4

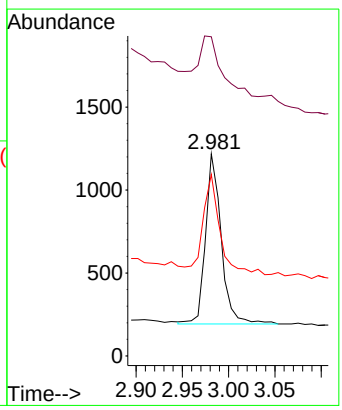


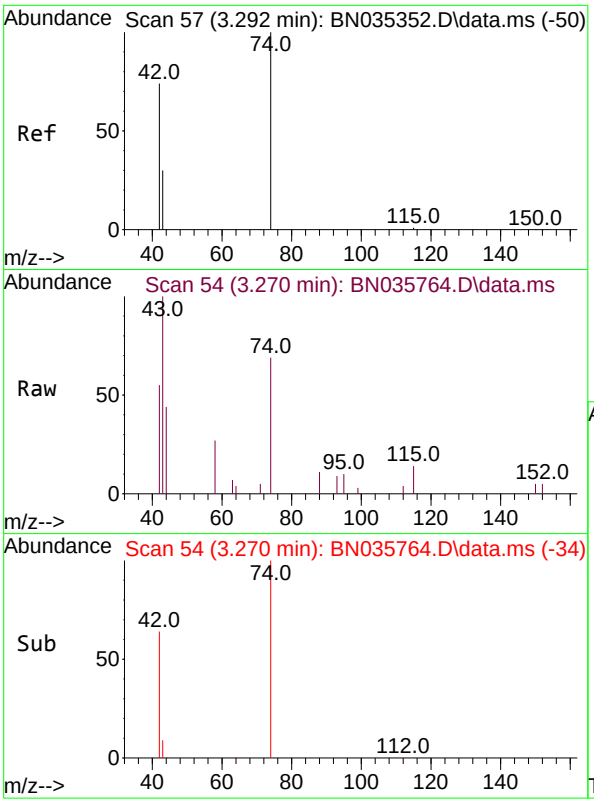


#2
1,4-Dioxane
Concen: 0.478 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 88 Resp: 1209

Ion	Ratio	Lower	Upper
88	100		
43	69.2	17.2	25.8#
58	63.2	44.5	66.7



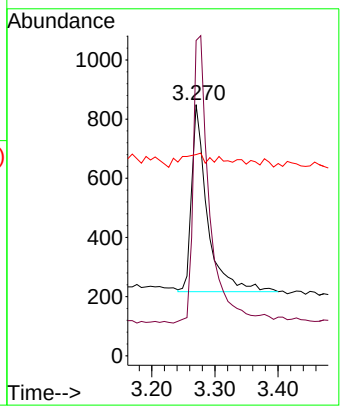


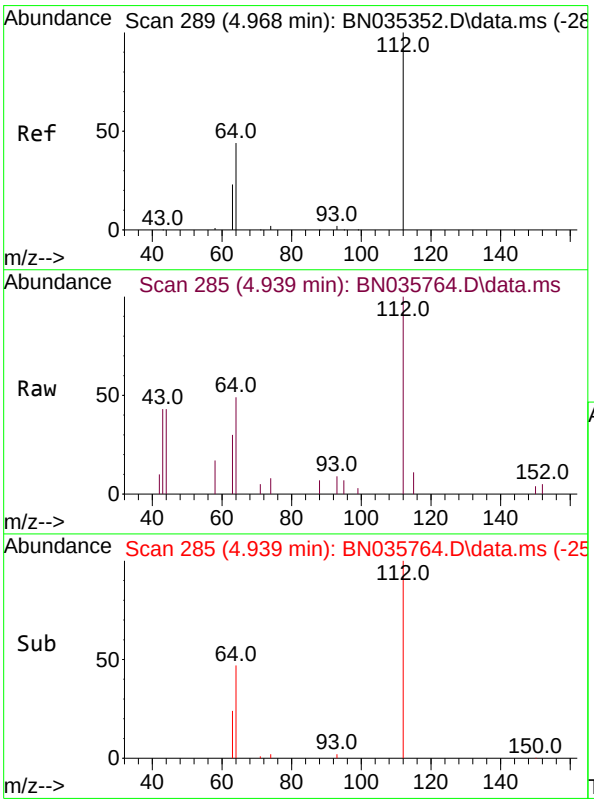
#3
n-Nitrosodimethylamine
Concen: 0.517 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion: 42 Resp: 1089

Ion	Ratio	Lower	Upper
42	100		
74	159.0	124.9	187.3
44	12.7	2.2	3.4#

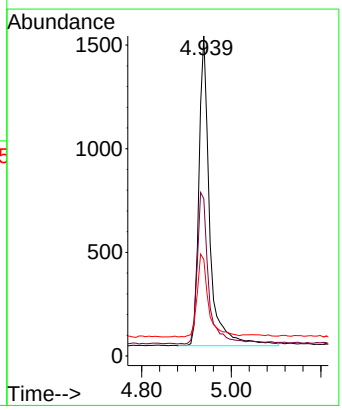


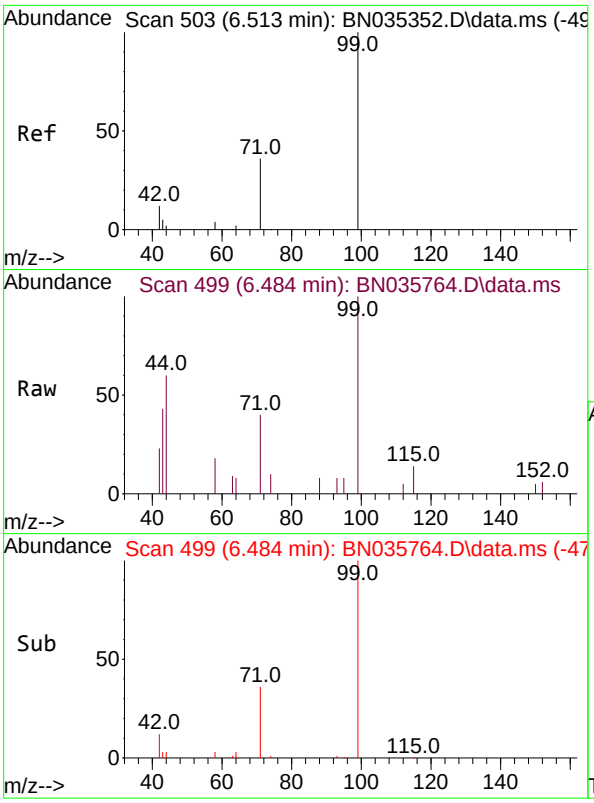


#4
2-Fluorophenol
Concen: 0.379 ng
RT: 4.939 min Scan# 285
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:112 Resp: 2510

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.8
63	27.8	21.0	31.6



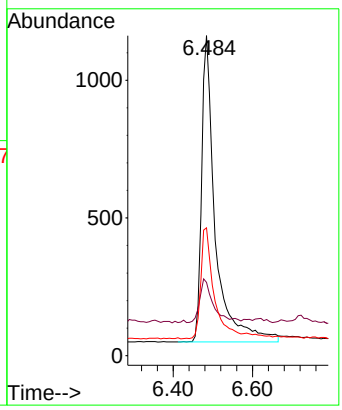


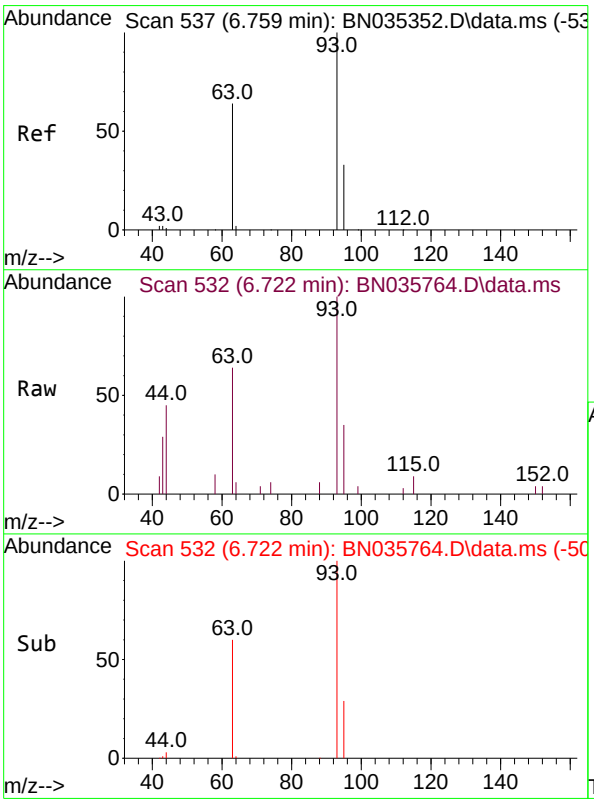
#5
Phenol-d6
Concen: 0.334 ng
RT: 6.484 min Scan# 4
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion: 99 Resp: 2665

Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.4	17.2
71	36.9	29.3	43.9

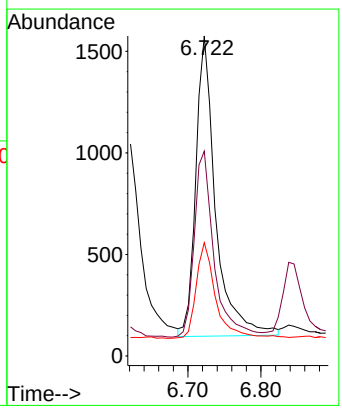


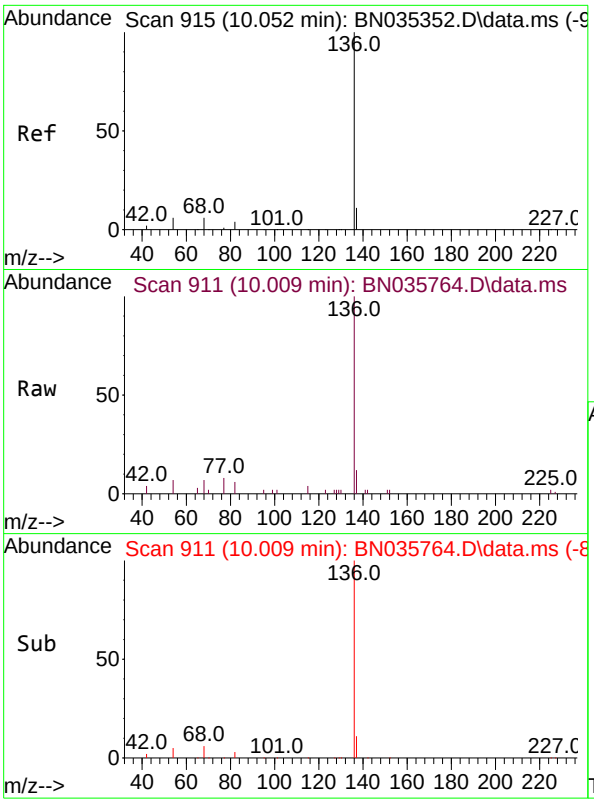


#6
bis(2-Chloroethyl)ether
Concen: 0.415 ng
RT: 6.722 min Scan# 532
Delta R.T. -0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 93 Resp: 2779

Ion	Ratio	Lower	Upper
93	100		
63	61.9	50.4	75.6
95	32.0	25.7	38.5



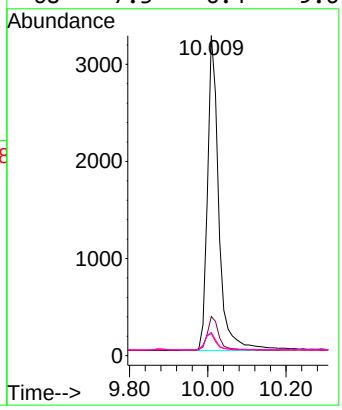


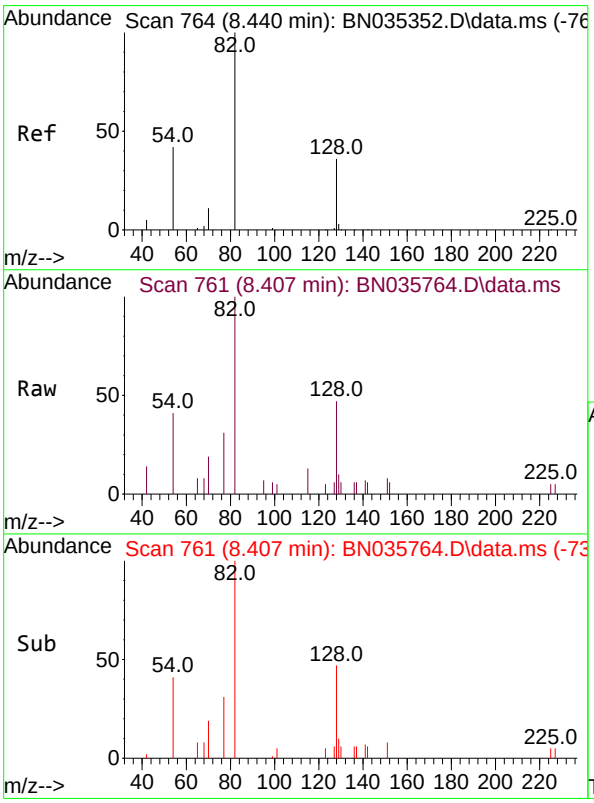
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:136 Resp: 6538

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.3	6.4	9.6

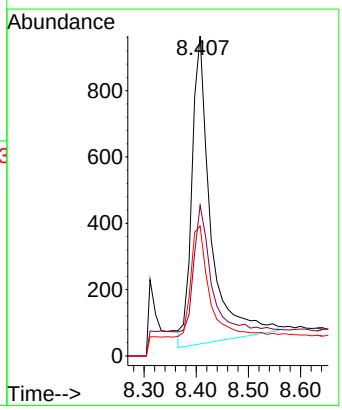


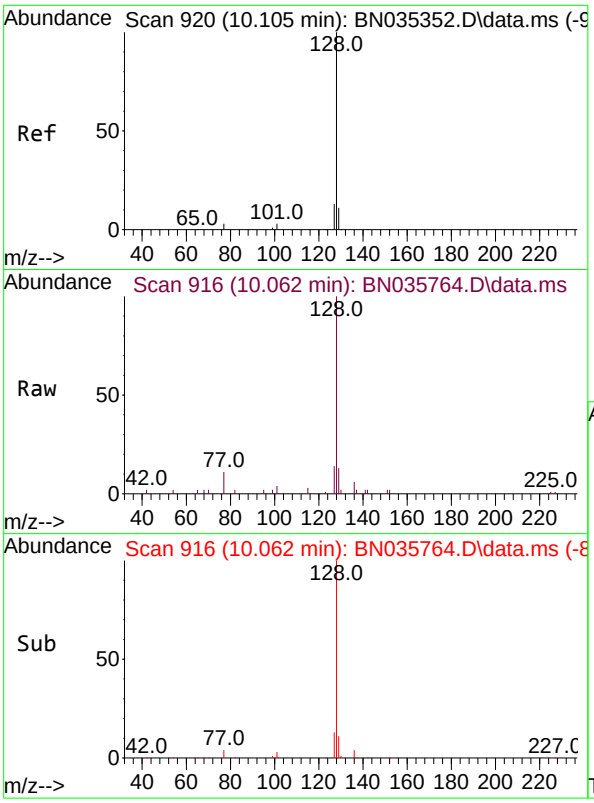


#8
Nitrobenzene-d5
Concen: 0.587 ng
RT: 8.407 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion: 82 Resp: 2346

Ion	Ratio	Lower	Upper
82	100		
128	47.0	33.4	50.0
54	40.6	36.7	55.1



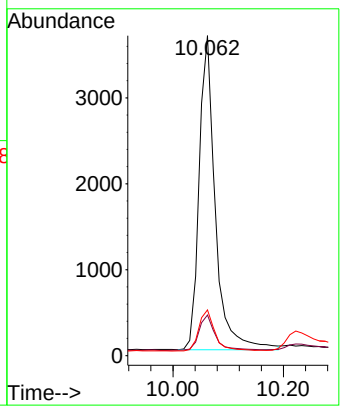


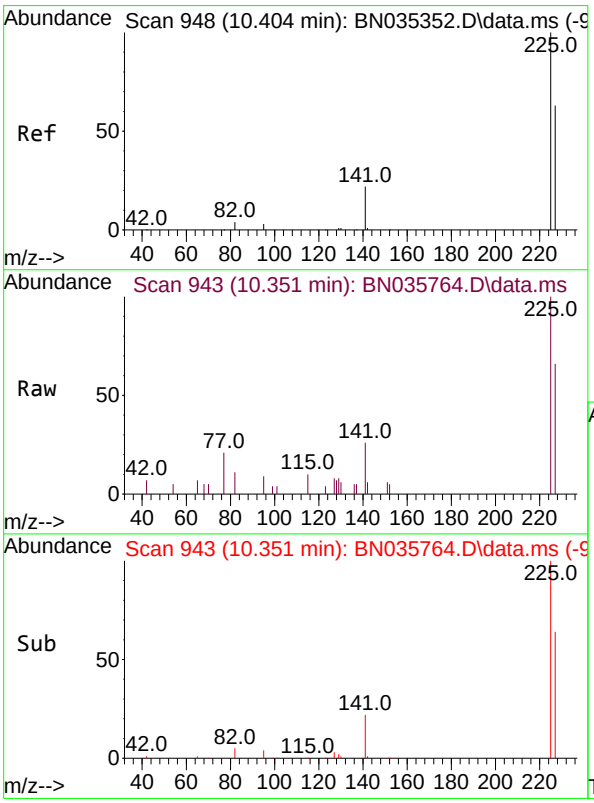
#9
Naphthalene
Concen: 0.433 ng
RT: 10.062 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:128 Resp: 7464

Ion	Ratio	Lower	Upper
128	100		
129	12.7	9.8	14.6
127	14.3	11.4	17.2

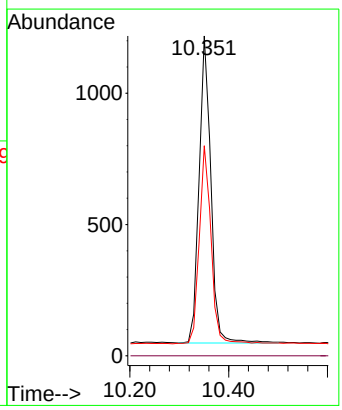


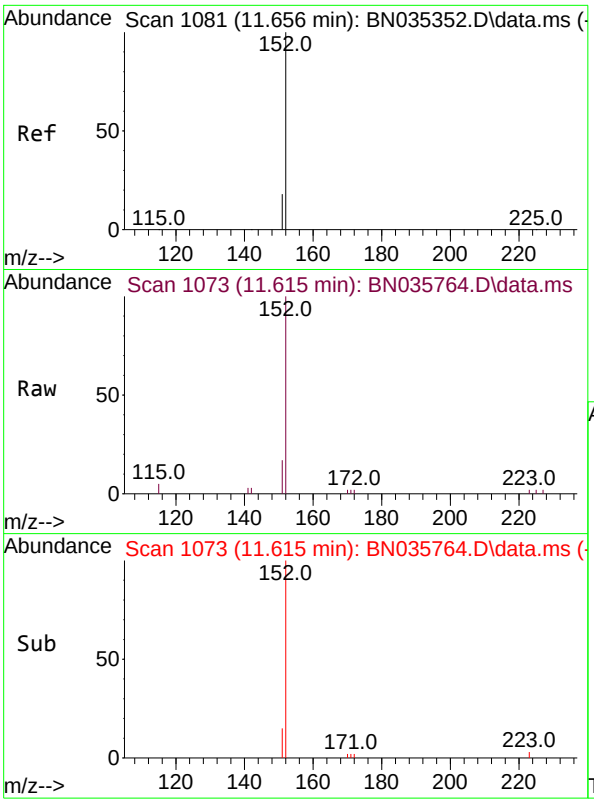


#10
Hexachlorobutadiene
Concen: 0.485 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:225 Resp: 1928

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9



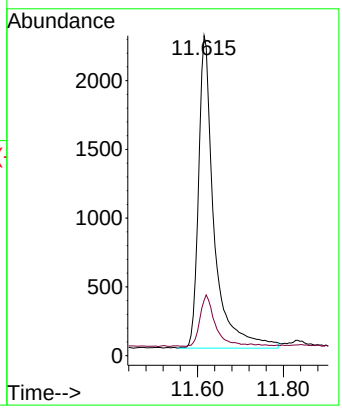


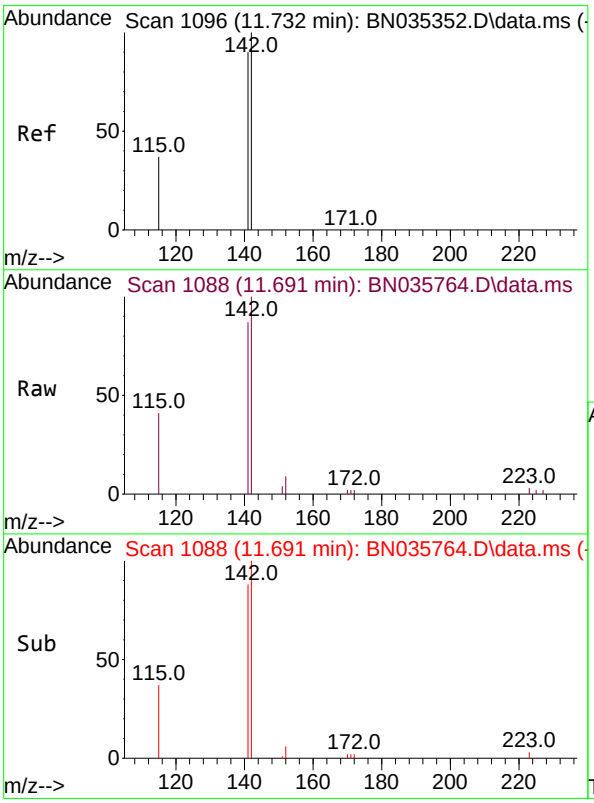
#11
2-Methylnaphthalene-d10
Concen: 0.556 ng
RT: 11.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:152 Resp: 5689

Ion	Ratio	Lower	Upper
152	100		
151	15.9	16.6	25.0#

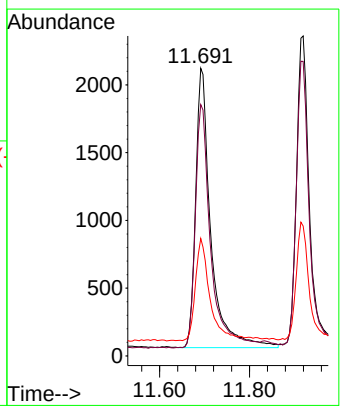


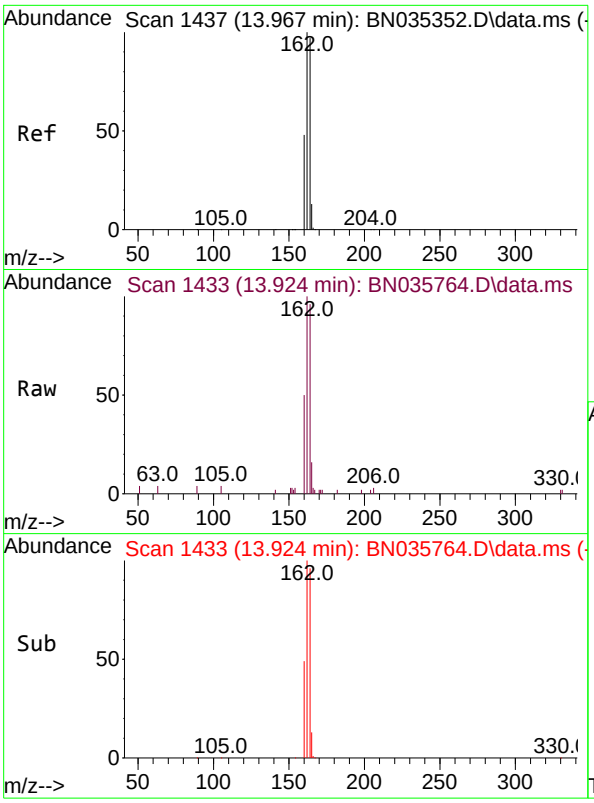


#12
2-Methylnaphthalene
Concen: 0.393 ng
RT: 11.691 min Scan# 1088
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:142 Resp: 4846

Ion	Ratio	Lower	Upper
142	100		
141	87.4	72.2	108.4
115	40.9	31.4	47.0



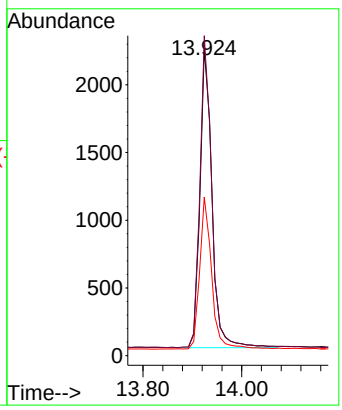


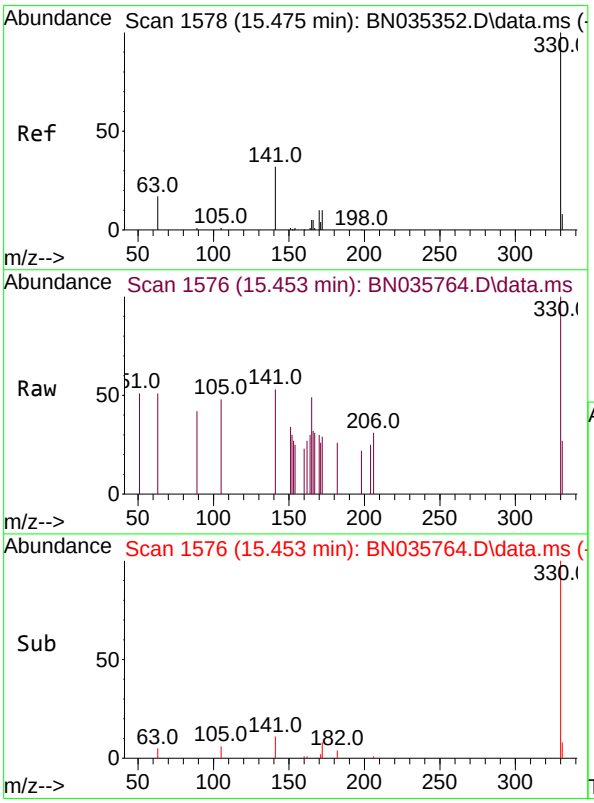
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:164 Resp: 3740

Ion	Ratio	Lower	Upper
164	100		
162	104.5	82.2	123.2
160	51.8	40.1	60.1

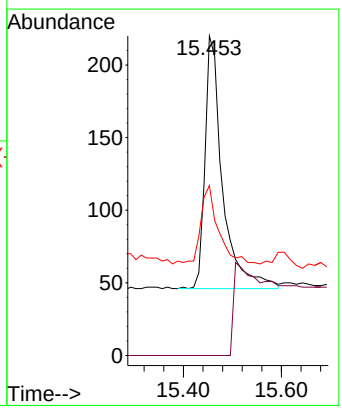


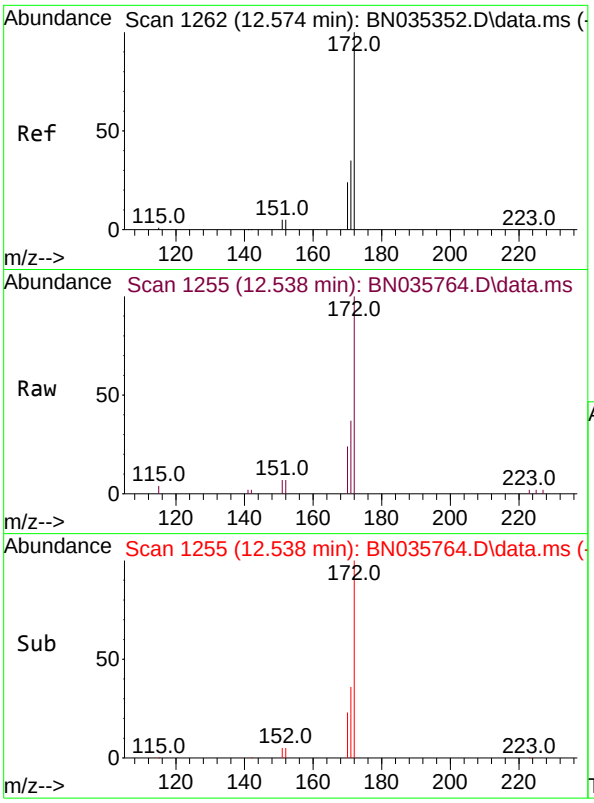


#14
2,4,6-Tribromophenol
Concen: 0.171 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:330 Resp: 453

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	30.2	26.6	40.0



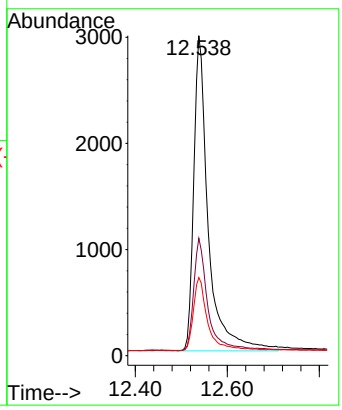


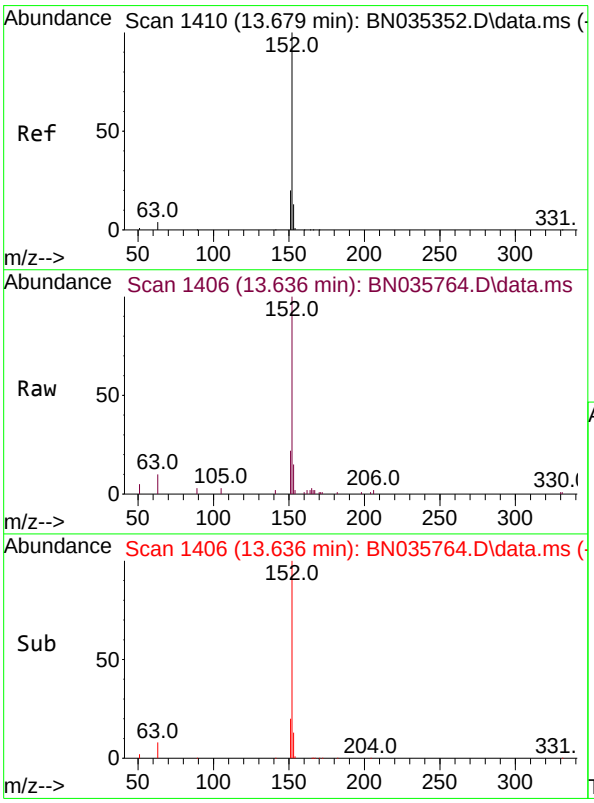
#15
2-Fluorobiphenyl
Concen: 0.460 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:172 Resp: 6506

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.0	43.4
170	24.4	19.8	29.8

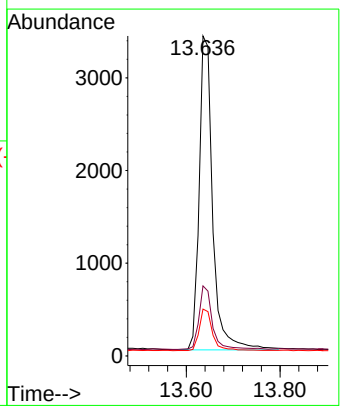


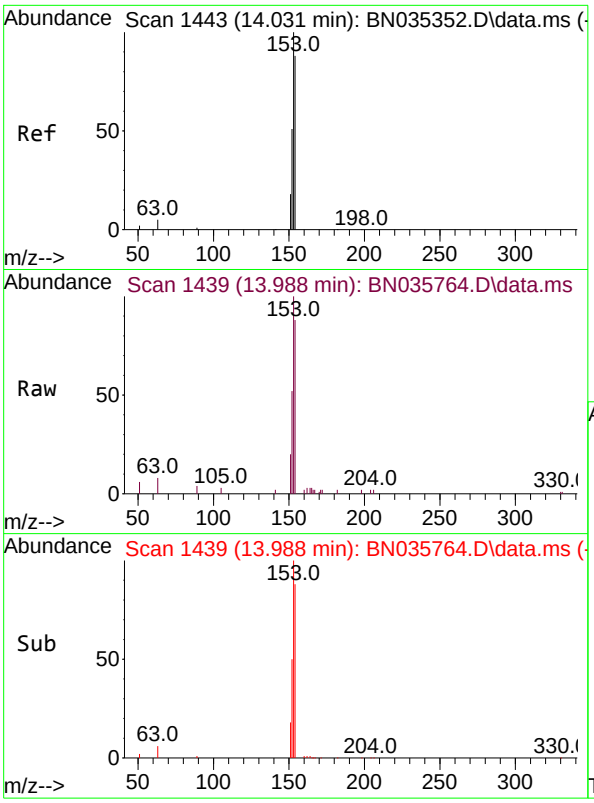


#16
Acenaphthylene
Concen: 0.432 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:152 Resp: 6779

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.2	10.4	15.6



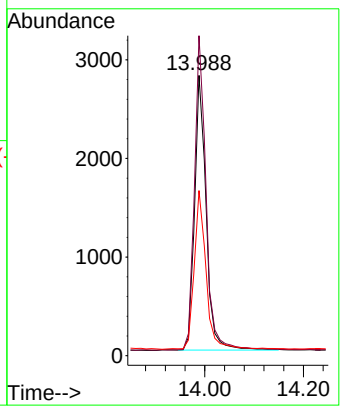


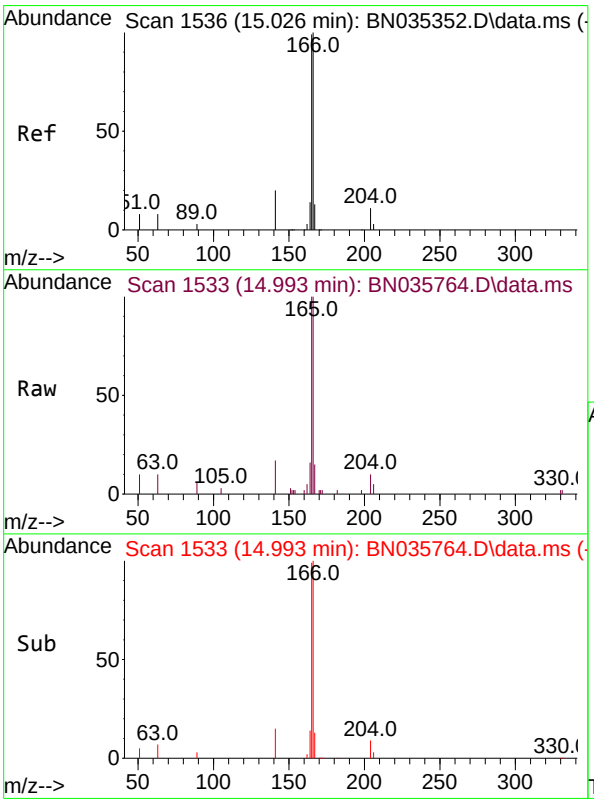
#17
Acenaphthene
Concen: 0.434 ng
RT: 13.988 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:154 Resp: 4529

Ion	Ratio	Lower	Upper
154	100		
153	115.1	92.6	139.0
152	58.8	49.0	73.6

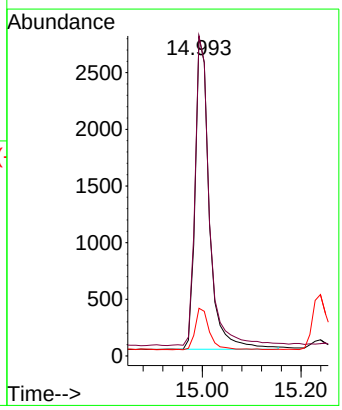


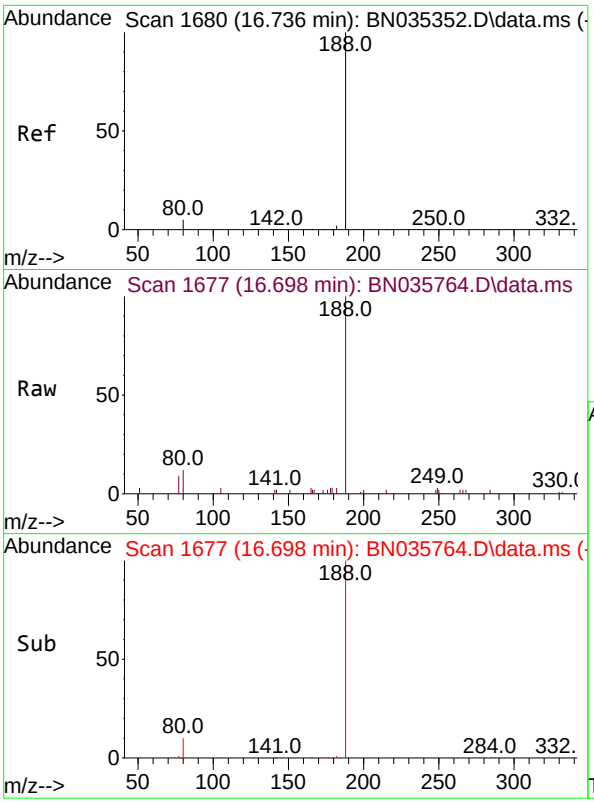


#18
Fluorene
Concen: 0.368 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:166 Resp: 5492

Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.7	119.5
167	13.0	10.8	16.2



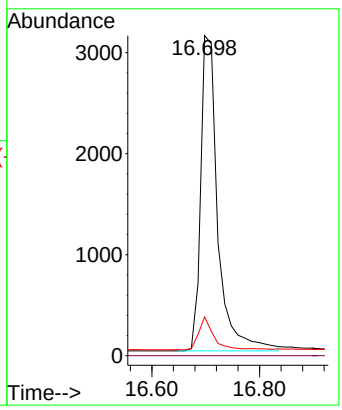


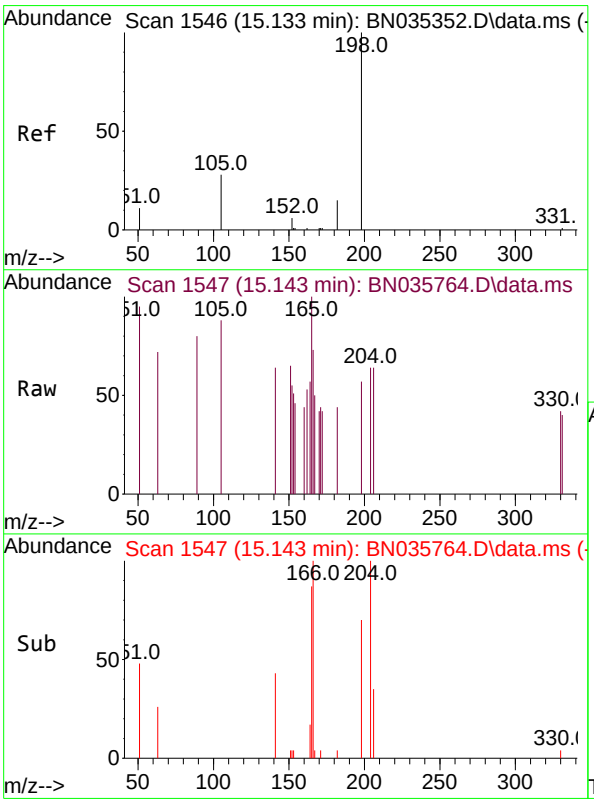
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:188 Resp: 6891

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	4.6	6.8#

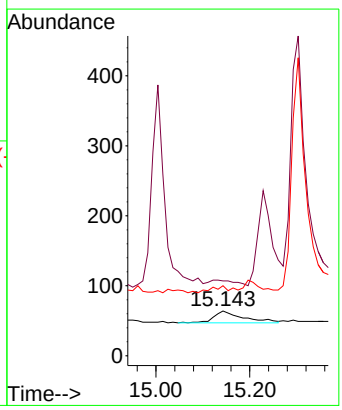


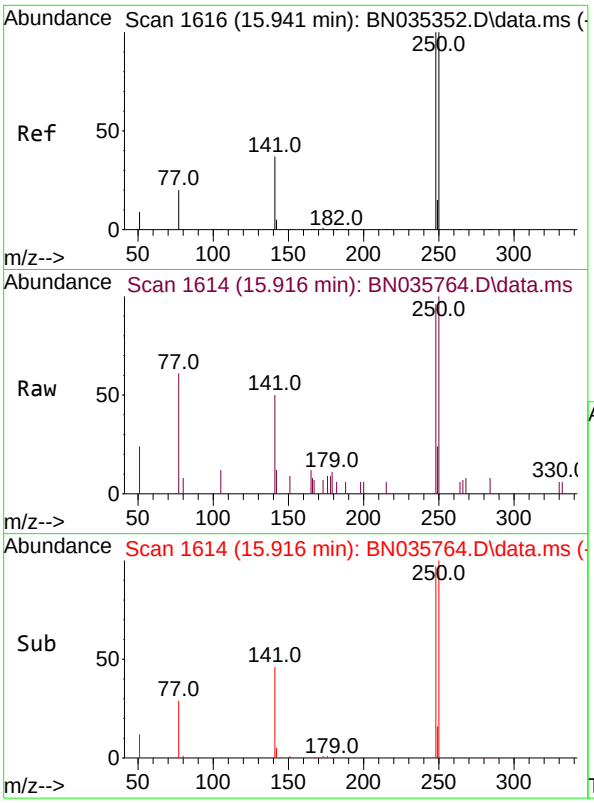


#20
4,6-Dinitro-2-methylphenol
Concen: 0.109 ng
RT: 15.143 min Scan# 1547
Delta R.T. 0.021 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:198 Resp: 74

Ion	Ratio	Lower	Upper
198	100		
51	167.2	46.5	69.7#
105	156.3	45.3	67.9#



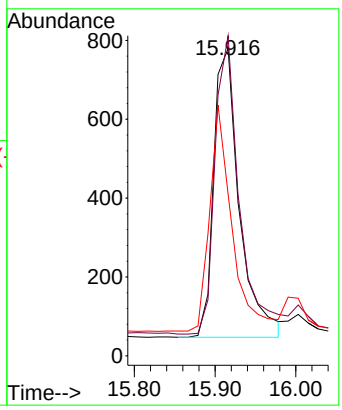


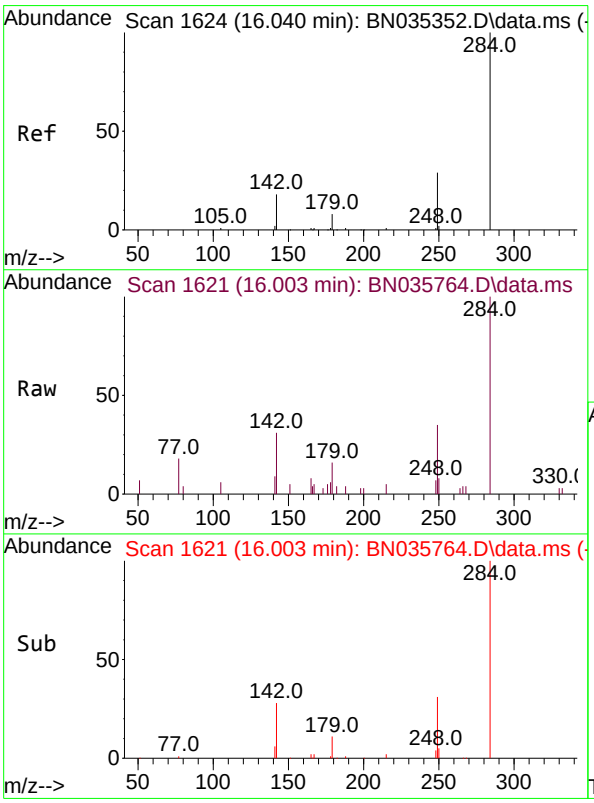
#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 15.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:248 Resp: 1621

Ion	Ratio	Lower	Upper
248	100		
250	104.1	80.6	120.8
141	52.6	31.5	47.3#

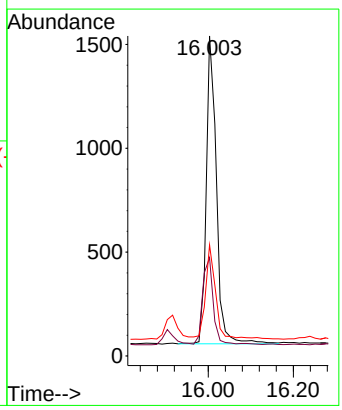


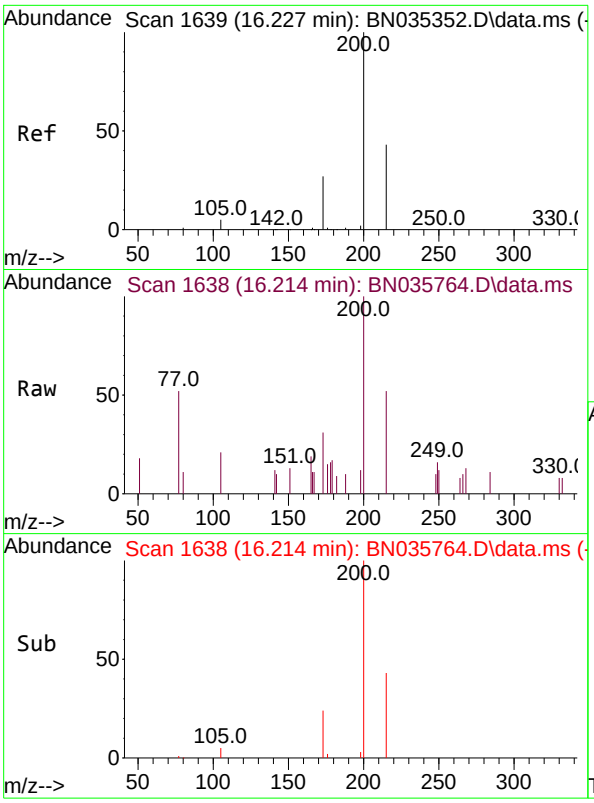


#22
Hexachlorobenzene
Concen: 0.516 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:284 Resp: 2441

Ion	Ratio	Lower	Upper
284	100		
142	29.6	26.7	40.1
249	30.3	24.6	36.8



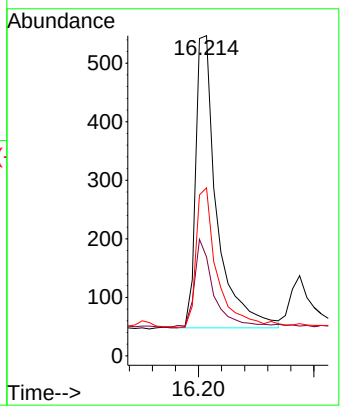


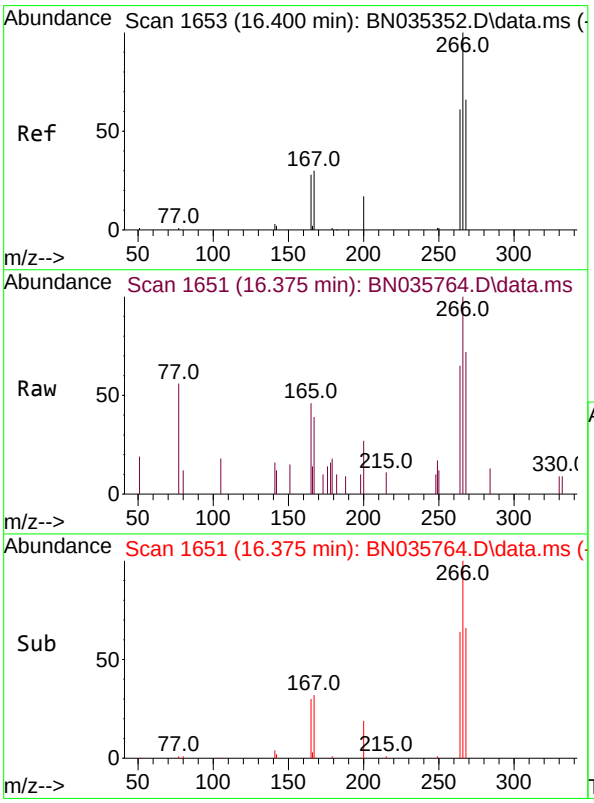
#23
Atrazine
Concen: 0.443 ng
RT: 16.214 min Scan# 1(
Delta R.T. 0.012 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:200 Resp: 1272

Ion	Ratio	Lower	Upper
200	100		
173	30.9	24.1	36.1
215	52.5	36.9	55.3

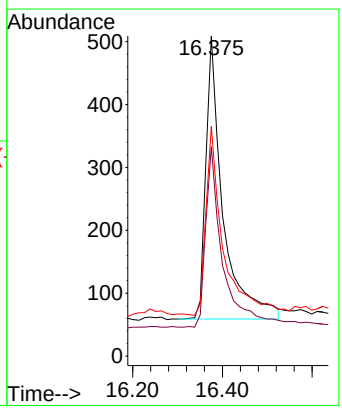


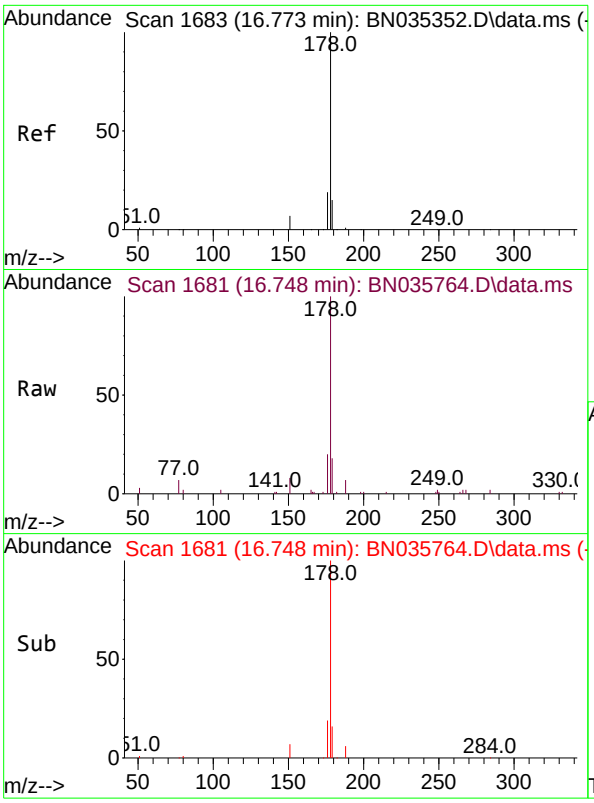


#24
Pentachlorophenol
Concen: 0.579 ng
RT: 16.375 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:266 Resp: 1192

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	66.2	43.3	64.9#



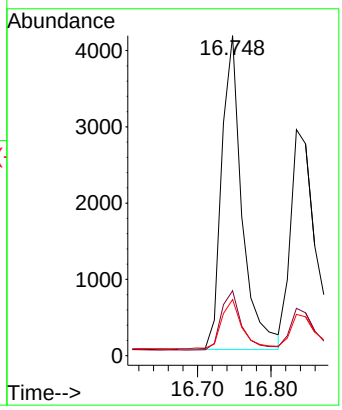


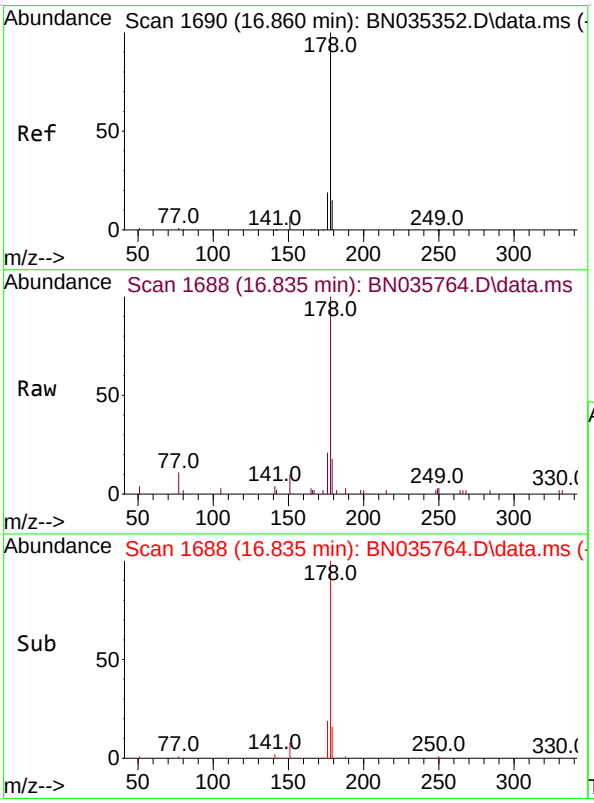
#25
Phenanthrene
Concen: 0.420 ng
RT: 16.748 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:178 Resp: 7957

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	16.3	12.3	18.5

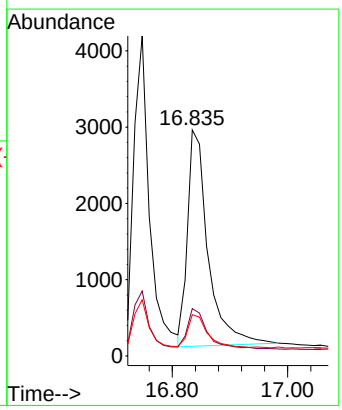


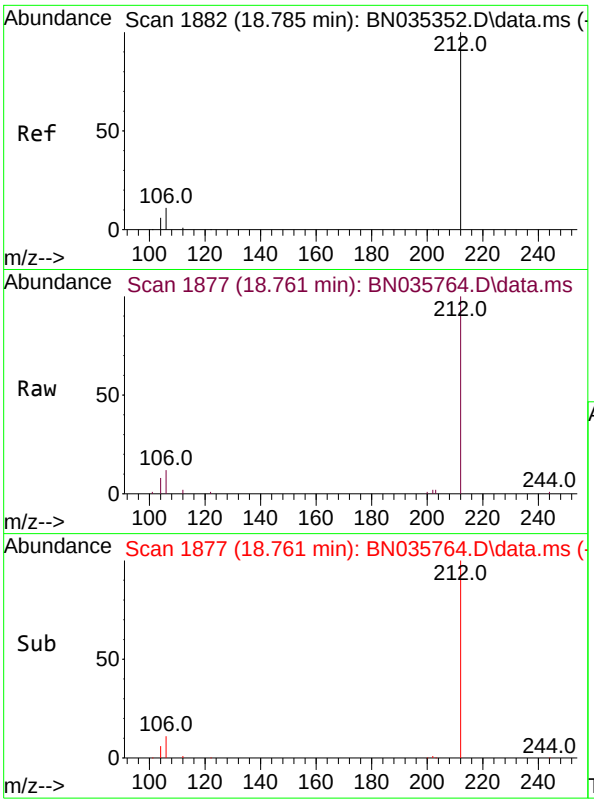


#26
Anthracene
Concen: 0.412 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:178 Resp: 7046

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.7	12.6	18.8



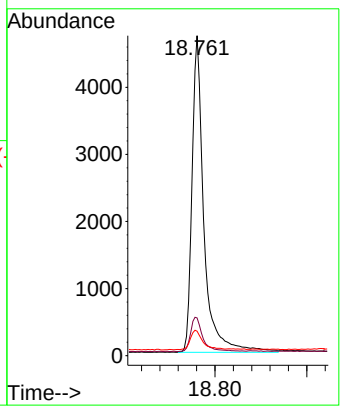


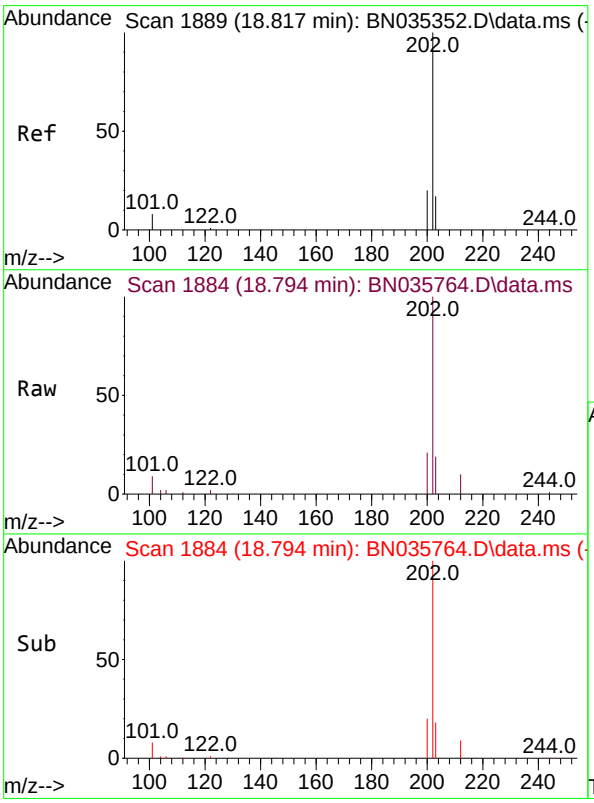
#27
Fluoranthene-d10
Concen: 0.435 ng
RT: 18.761 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:212 Resp: 8504

Ion	Ratio	Lower	Upper
212	100		
106	11.1	9.2	13.8
104	6.4	5.3	7.9

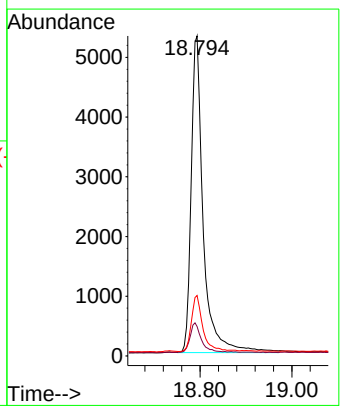


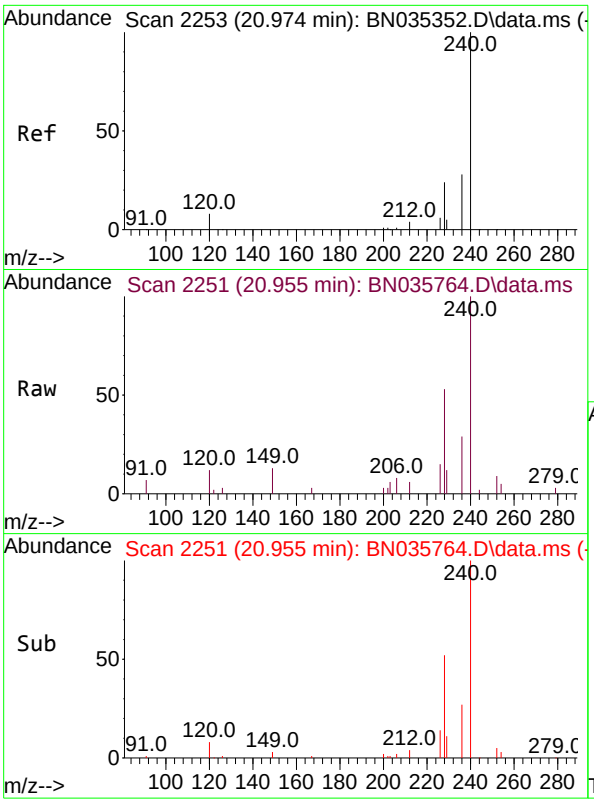


#28
Fluoranthene
Concen: 0.379 ng
RT: 18.794 min Scan# 1884
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 9671

Ion	Ratio	Lower	Upper
202	100		
101	8.7	7.4	11.0
203	16.8	13.7	20.5



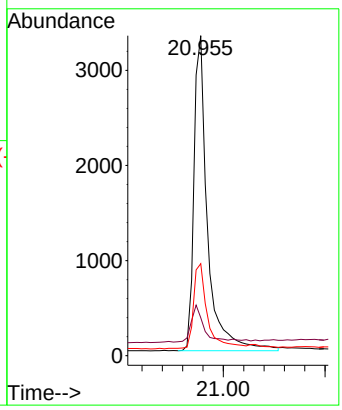


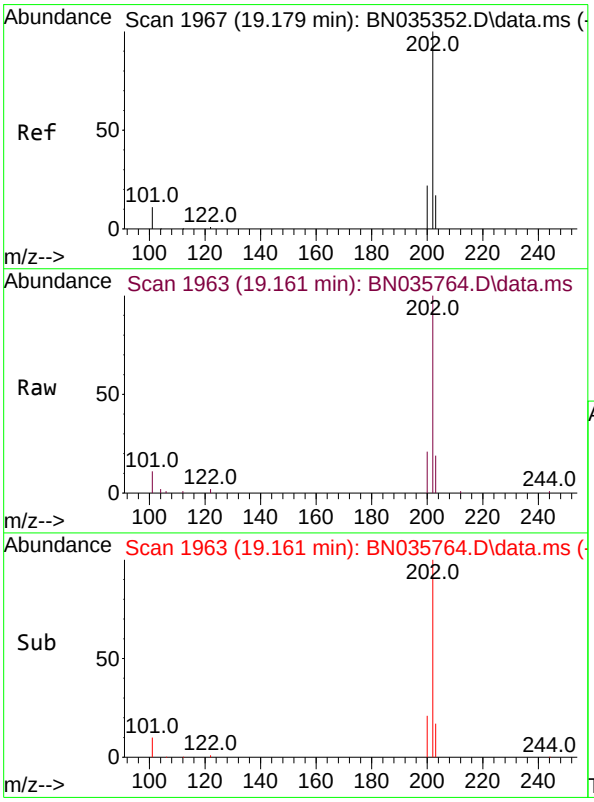
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.955 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:240 Resp: 6144

Ion	Ratio	Lower	Upper
240	100		
120	11.9	7.9	11.9
236	28.7	22.9	34.3

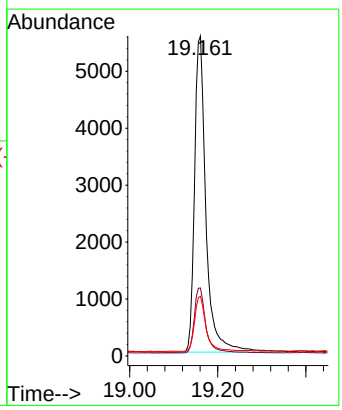


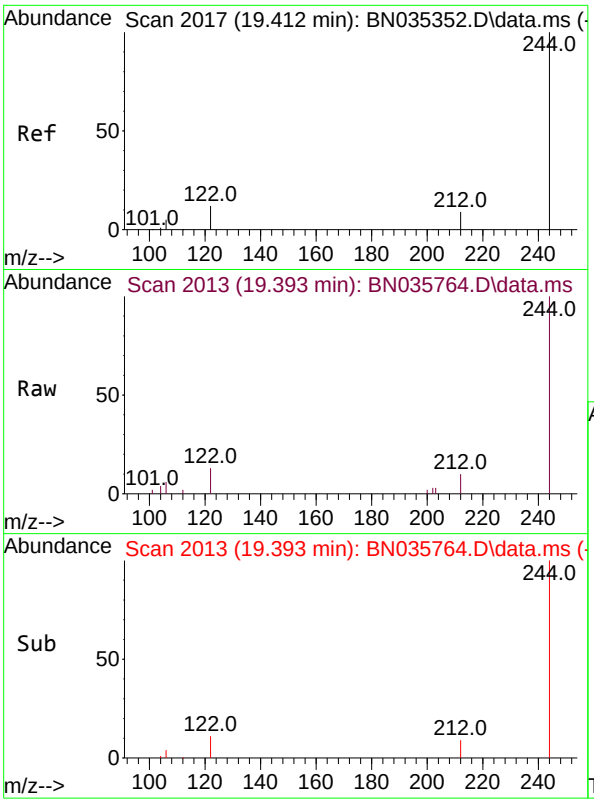


#30
Pyrene
Concen: 0.442 ng
RT: 19.161 min Scan# 1963
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:202 Resp: 10032

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.5	14.3	21.5



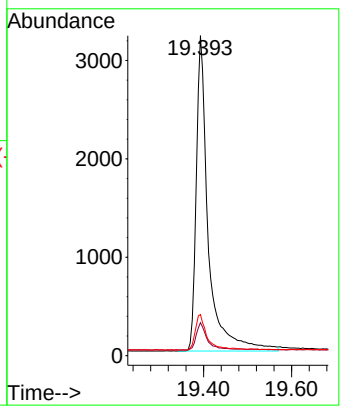


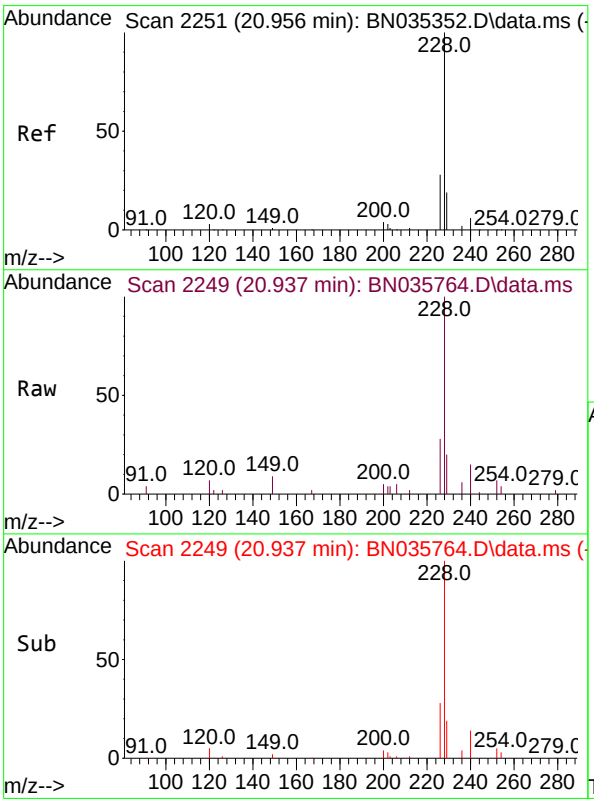
#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.393 min Scan# 2
Delta R.T. 0.004 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:244 Resp: 6077

Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.1	12.1
122	12.9	10.3	15.5

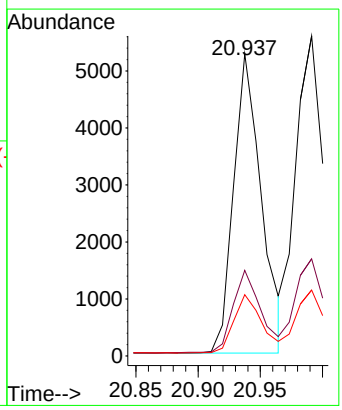


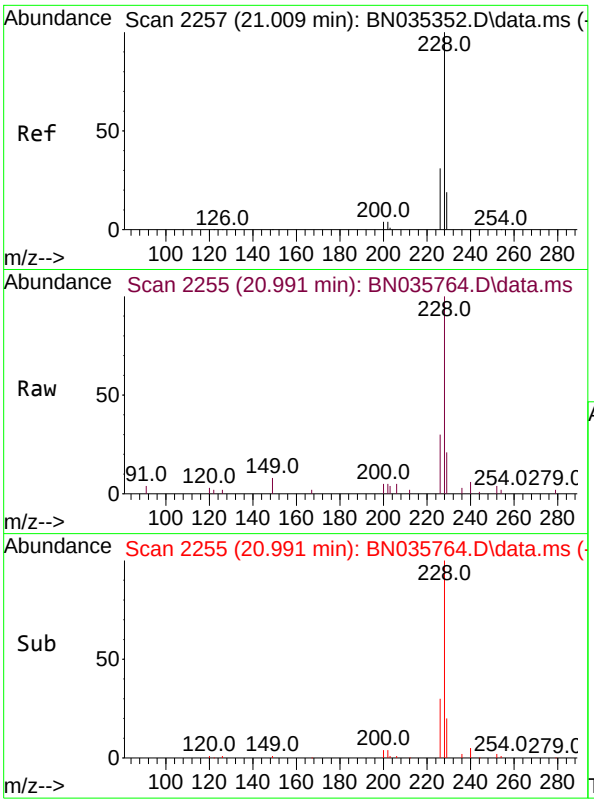


#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 20.937 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:228 Resp: 8148

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.5	33.7
229	20.3	15.8	23.8



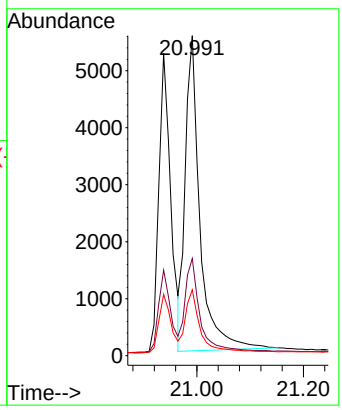


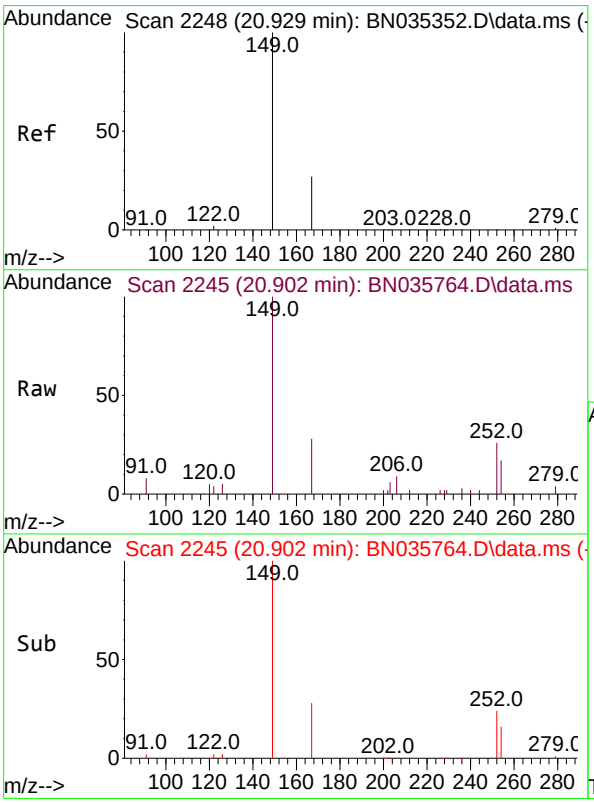
#33
Chrysene
Concen: 0.478 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:228 Resp: 10584

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	20.6	15.9	23.9

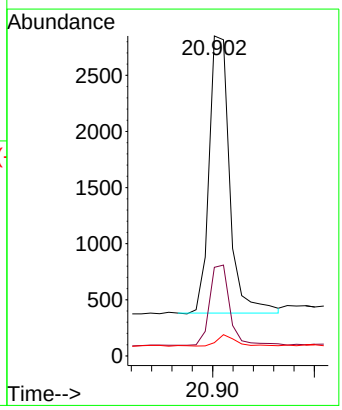


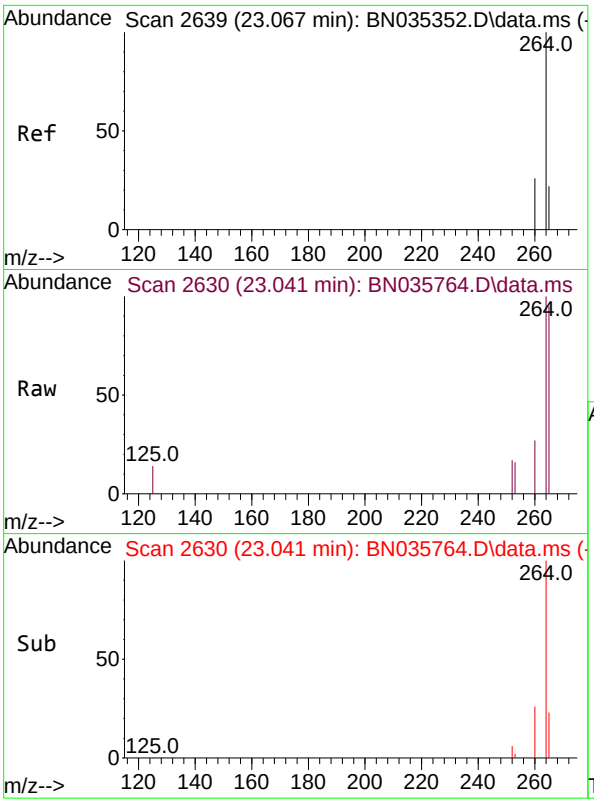


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:149 Resp: 3462

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.4
279	4.2	2.7	4.1#



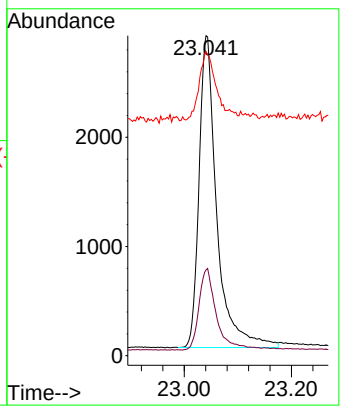


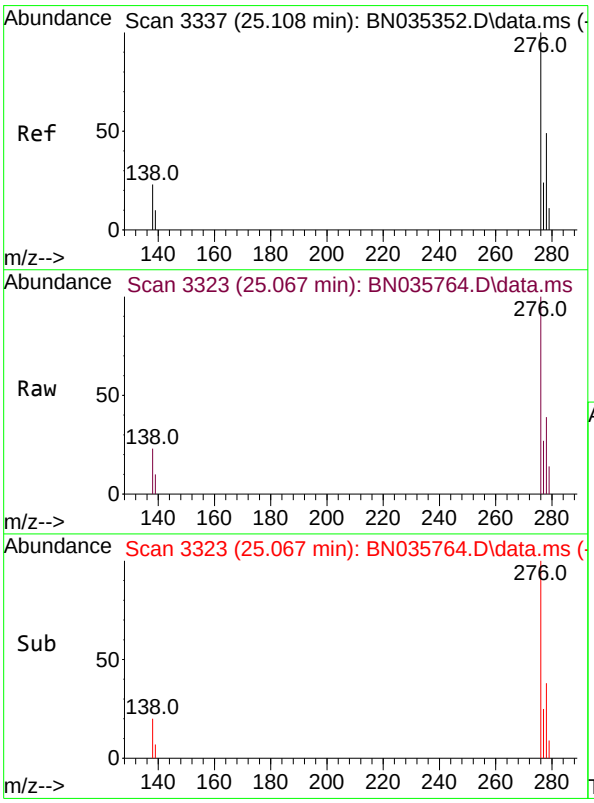
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.041 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:264 Resp: 6576

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	95.0	40.2	60.4#

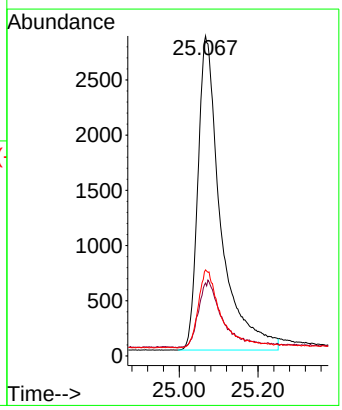


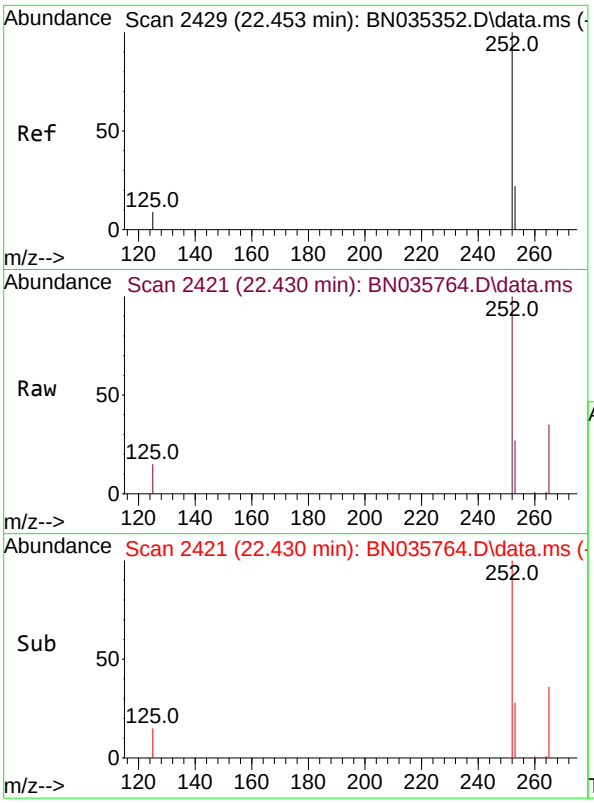


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.443 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:276 Resp: 11390

Ion	Ratio	Lower	Upper
276	100		
138	20.7	19.4	29.0
277	24.5	19.8	29.6



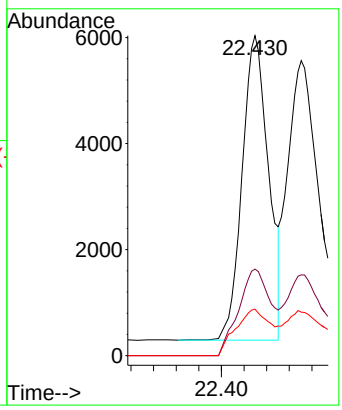


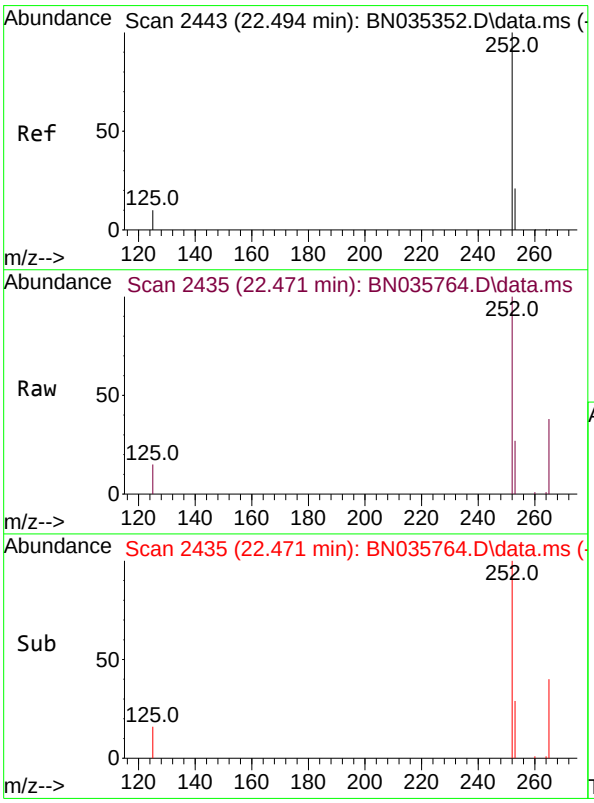
#37
Benzo(b)fluoranthene
Concen: 0.578 ng
RT: 22.430 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:252 Resp: 13899

Ion	Ratio	Lower	Upper
252	100		
253	27.1	19.6	29.4
125	14.5	9.6	14.4#

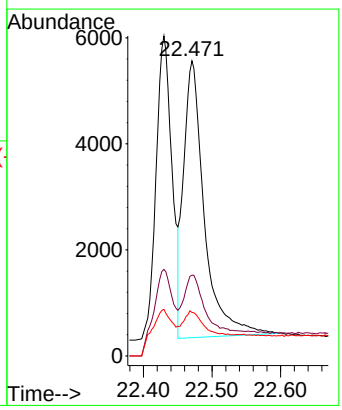


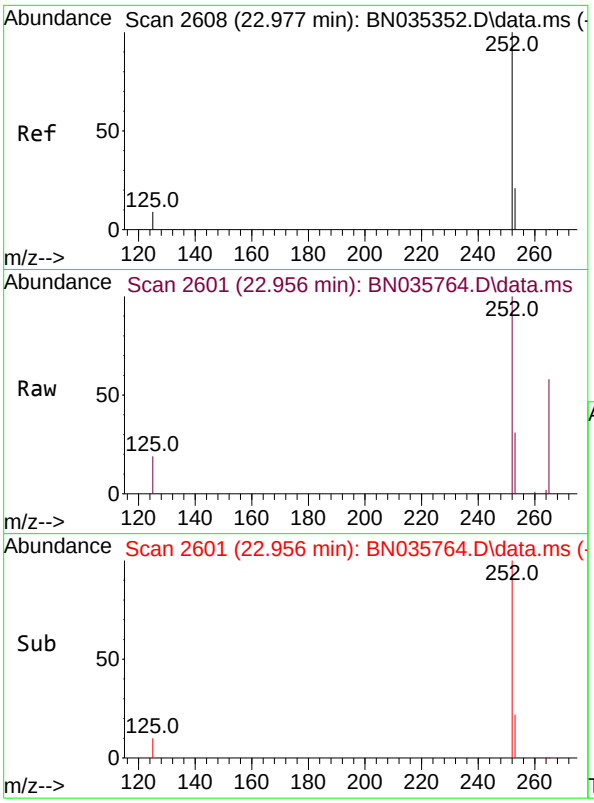


#38
Benzo(k)fluoranthene
Concen: 0.462 ng
RT: 22.471 min Scan# 2435
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:252 Resp: 10950

Ion	Ratio	Lower	Upper
252	100		
253	27.4	19.5	29.3
125	14.7	10.2	15.4



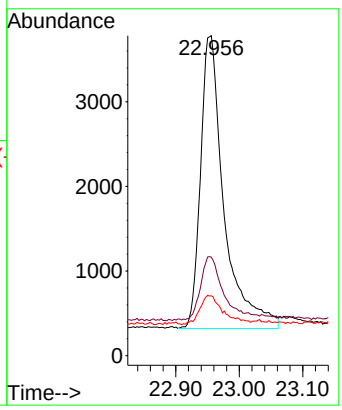


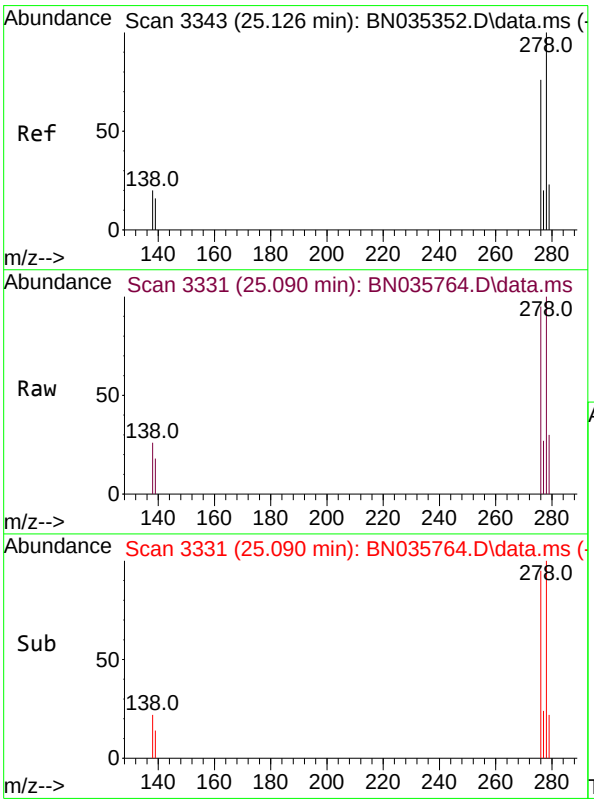
#39
Benzo(a)pyrene
Concen: 0.449 ng
RT: 22.956 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:252 Resp: 8888

Ion	Ratio	Lower	Upper
252	100		
253	30.8	20.2	30.4#
125	18.7	10.9	16.3#

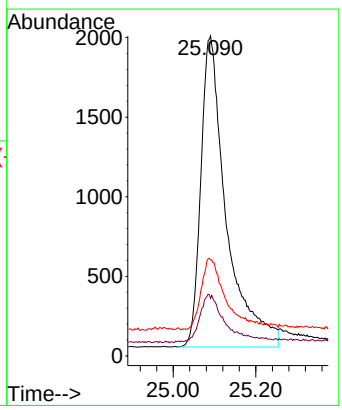


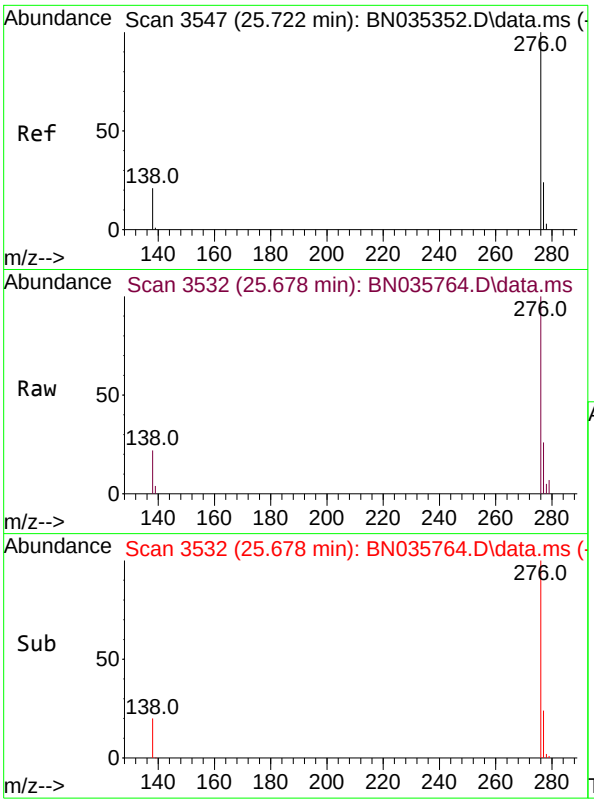


#40
Dibenzo(a,h)anthracene
Concen: 0.412 ng
RT: 25.090 min Scan# 3331
Delta R.T. 0.008 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Tgt Ion:278 Resp: 8351

Ion	Ratio	Lower	Upper
278	100		
139	18.0	14.2	21.4
279	30.0	20.5	30.7



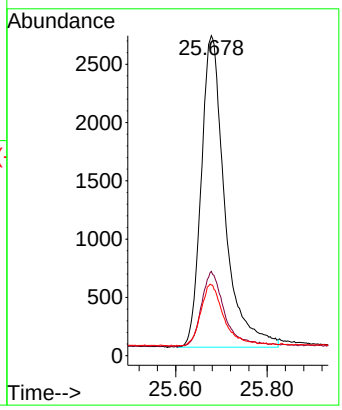


#41
Benzo(g,h,i)perylene
Concen: 0.453 ng
RT: 25.678 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035764.D
Acq: 21 Dec 2024 04:34

Instrument :
BNA_N
ClientSampleId :
PB165724BS

Tgt Ion:276 Resp: 9596

Ion	Ratio	Lower	Upper
276	100		
277	26.3	19.9	29.9
138	22.1	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 21 05:39:14 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	3545	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	9106	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5821	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	12321	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	9836	0.400	ng		# 0.00
35) Perylene-d12	23.035	264	10740	0.400	ng		# 0.00
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	3403	0.384	ng		0.00
5) Phenol-d6	6.477	99	3879	0.364	ng		-0.01
8) Nitrobenzene-d5	8.408	82	2756	0.496	ng		0.00
11) 2-Methylnaphthalene-d10	11.616	152	5263	0.369	ng		0.00
14) 2,4,6-Tribromophenol	15.453	330	1253	0.303	ng		0.00
15) 2-Fluorobiphenyl	12.538	172	8084	0.367	ng		0.00
27) Fluoranthene-d10	18.757	212	12191	0.349	ng		0.00
31) Terphenyl-d14	19.388	244	8488	0.437	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1555	0.459	ng		96
3) n-Nitrosodimethylamine	3.278	42	1104	0.391	ng	#	93
6) bis(2-Chloroethyl)ether	6.723	93	3165	0.353	ng		98
9) Naphthalene	10.063	128	9097	0.379	ng		100
10) Hexachlorobutadiene	10.351	225	2300	0.415	ng	#	99
12) 2-Methylnaphthalene	11.692	142	6016	0.350	ng		99
16) Acenaphthylene	13.636	152	8764	0.359	ng		99
17) Acenaphthene	13.989	154	6047	0.373	ng		98
18) Fluorene	14.993	166	7942	0.342	ng		100
20) 4,6-Dinitro-2-methylph...	15.132	198	142	0.117	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2531	0.351	ng	#	83
22) Hexachlorobenzene	16.003	284	3667	0.433	ng		97
23) Atrazine	16.202	200	1895	0.369	ng		96
24) Pentachlorophenol	16.376	266	1177	0.320	ng	#	86
25) Phenanthrene	16.735	178	12350	0.365	ng		99
26) Anthracene	16.835	178	10612	0.347	ng		99
28) Fluoranthene	18.789	202	15375	0.337	ng		99
30) Pyrene	19.156	202	15587	0.429	ng		100
32) Benzo(a)anthracene	20.938	228	11659	0.339	ng		100
33) Chrysene	20.991	228	14263	0.402	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	5697	0.419	ng		99
36) Indeno(1,2,3-cd)pyrene	25.064	276	15666	0.373	ng		99
37) Benzo(b)fluoranthene	22.427	252	19003	0.484	ng		98
38) Benzo(k)fluoranthene	22.427	252	19003	0.491	ng		99
39) Benzo(a)pyrene	22.947	252	11742	0.363	ng		94
40) Dibenzo(a,h)anthracene	25.079	278	11661	0.352	ng		97
41) Benzo(g,h,i)perylene	25.675	276	14236	0.411	ng		99

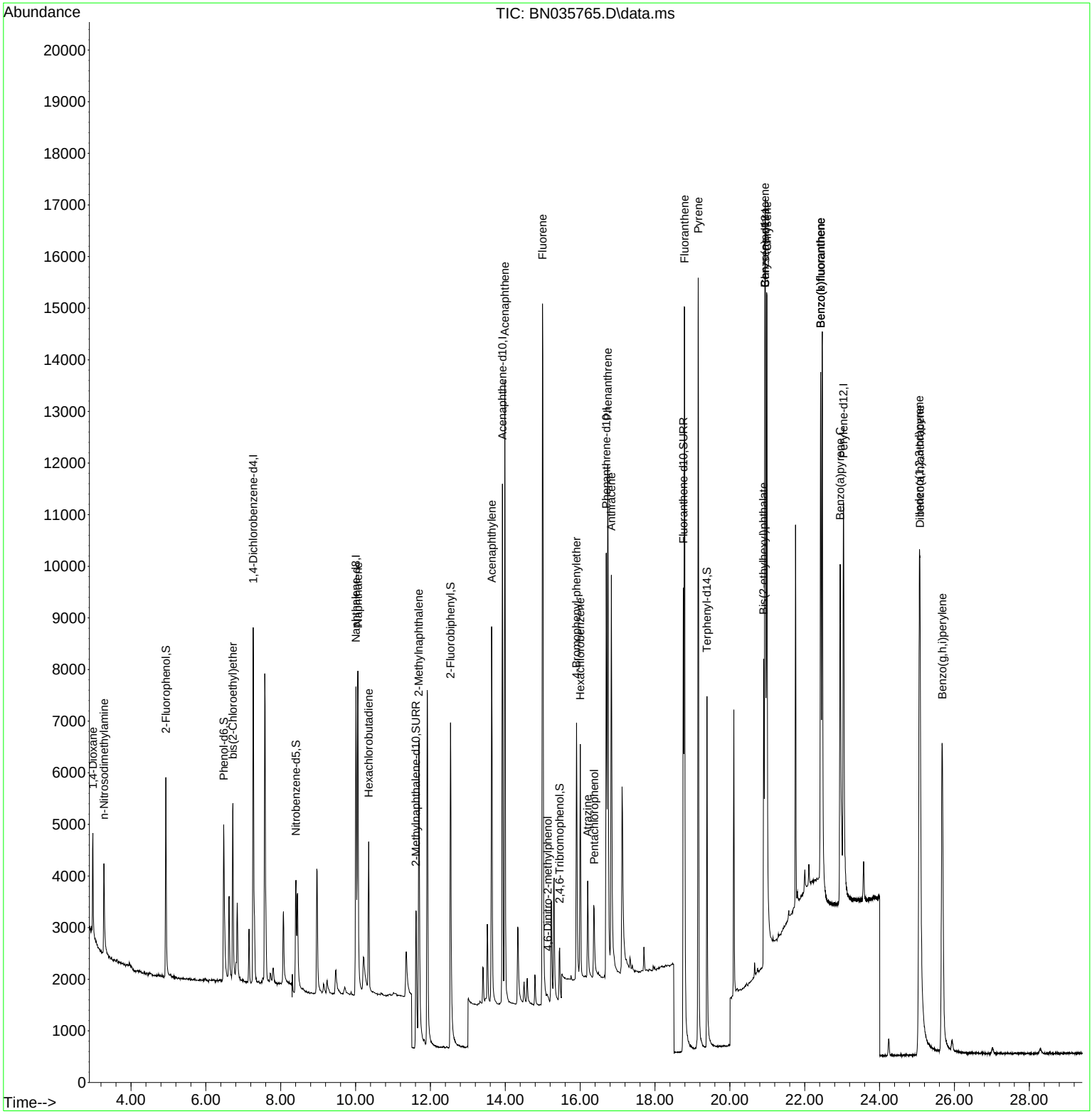
(#) = qualifier out of range (m) = manual integration (+) = signals summed

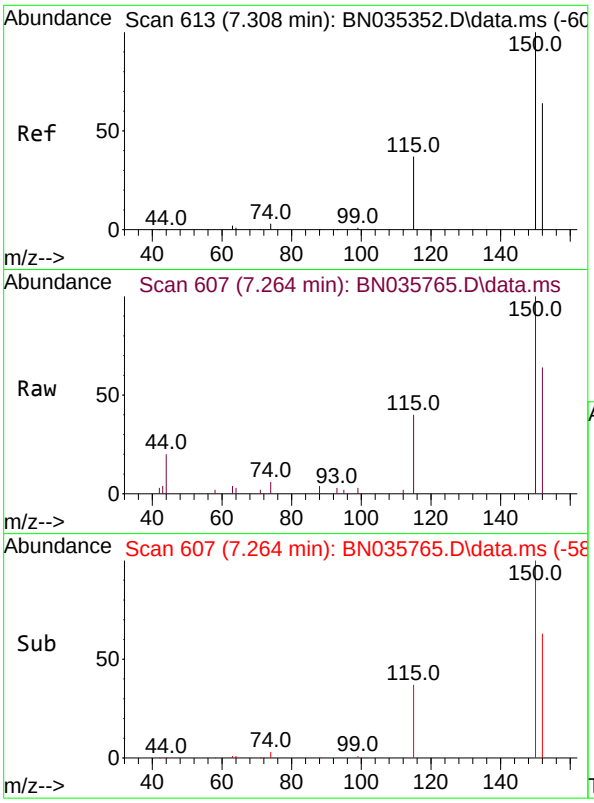
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121924\
Data File : BN035765.D
Acq On : 21 Dec 2024 05:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 56 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 21 05:39:14 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



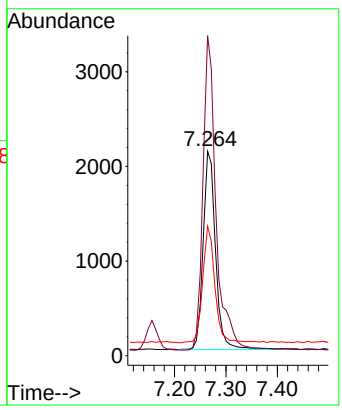


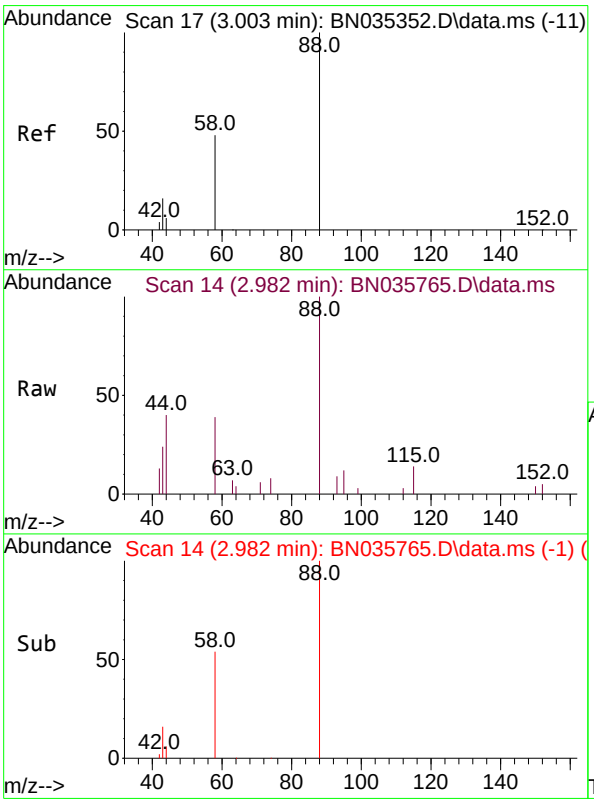
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3545

Ion	Ratio	Lower	Upper
152	100		
150	156.6	124.0	186.0
115	63.3	49.6	74.4

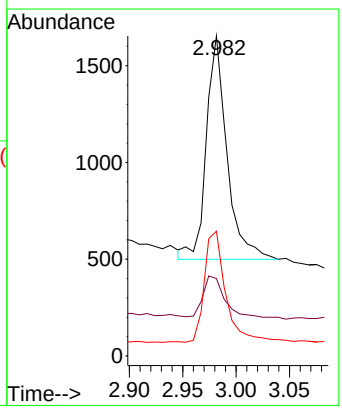


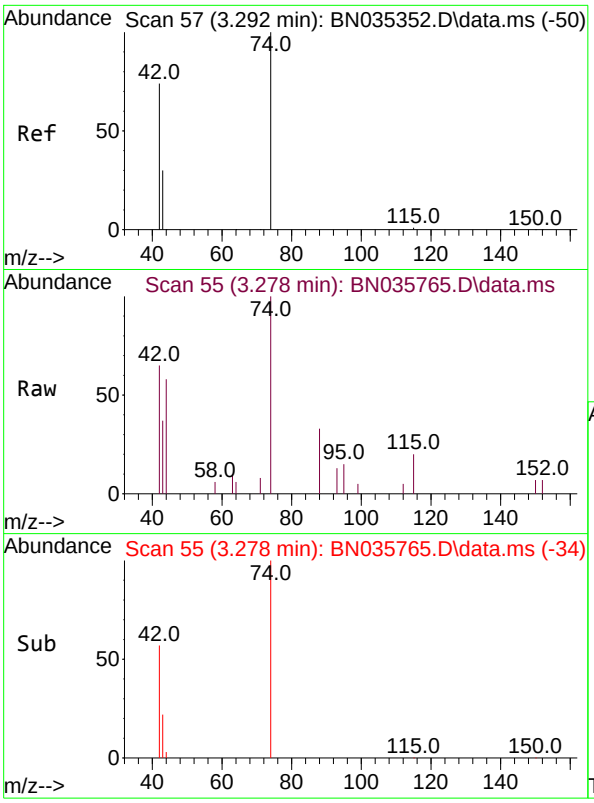


#2
1,4-Dioxane
Concen: 0.459 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 88 Resp: 1555

Ion	Ratio	Lower	Upper
88	100		
43	22.1	17.2	25.8
58	52.2	44.5	66.7



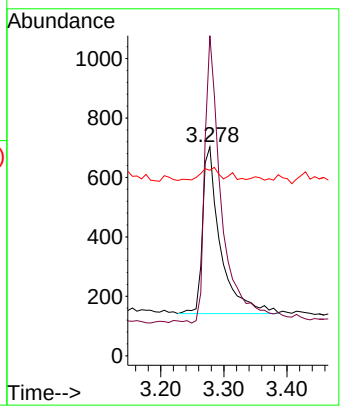


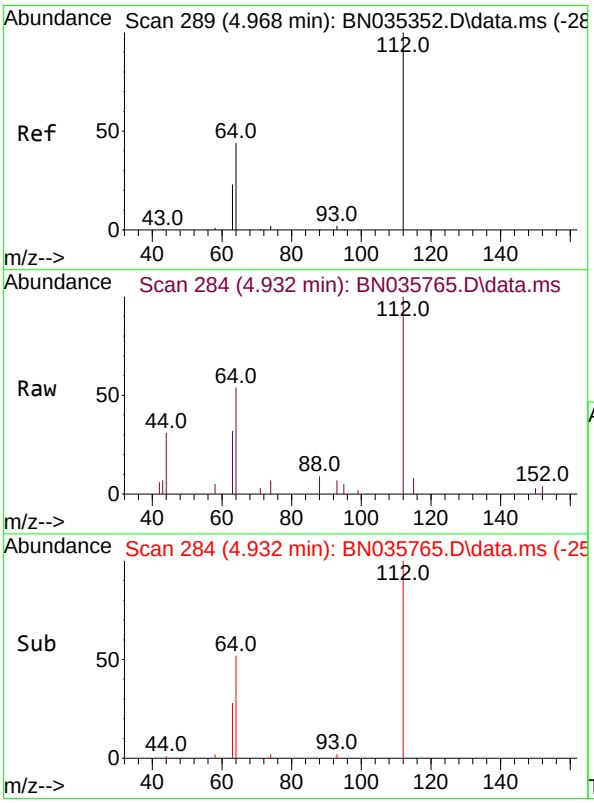
#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1104

Ion	Ratio	Lower	Upper
42	100		
74	165.7	124.9	187.3
44	6.3	2.2	3.4#

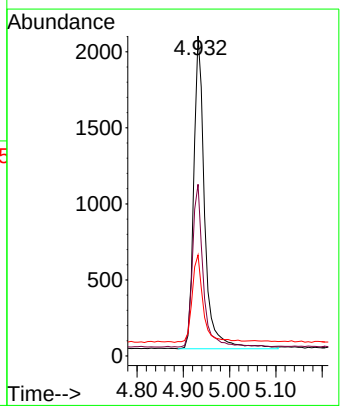


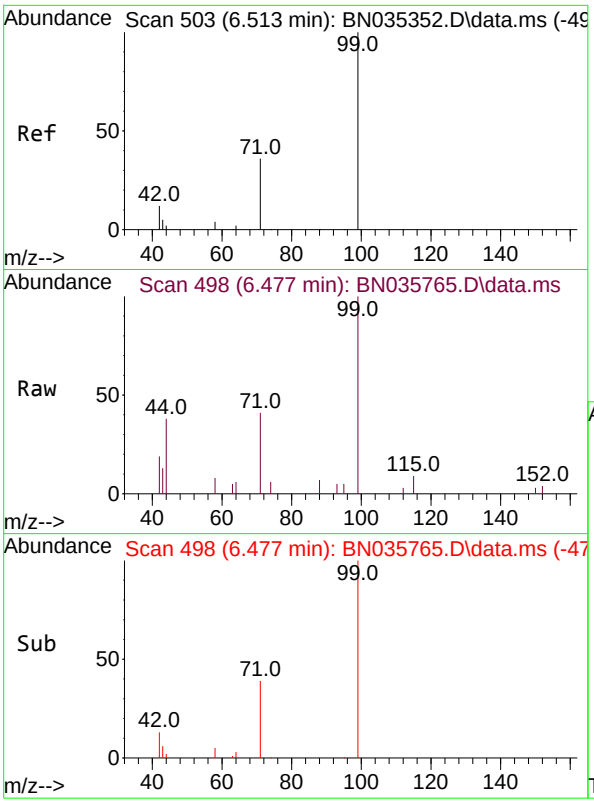


#4
2-Fluorophenol
Concen: 0.384 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:112 Resp: 3403

Ion	Ratio	Lower	Upper
112	100		
64	51.2	39.8	59.8
63	28.0	21.0	31.6



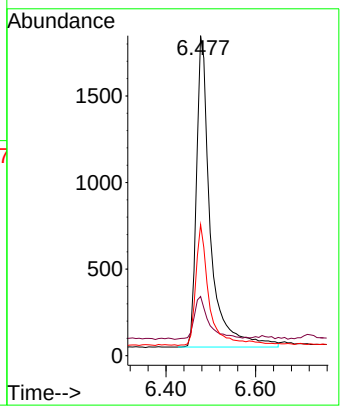


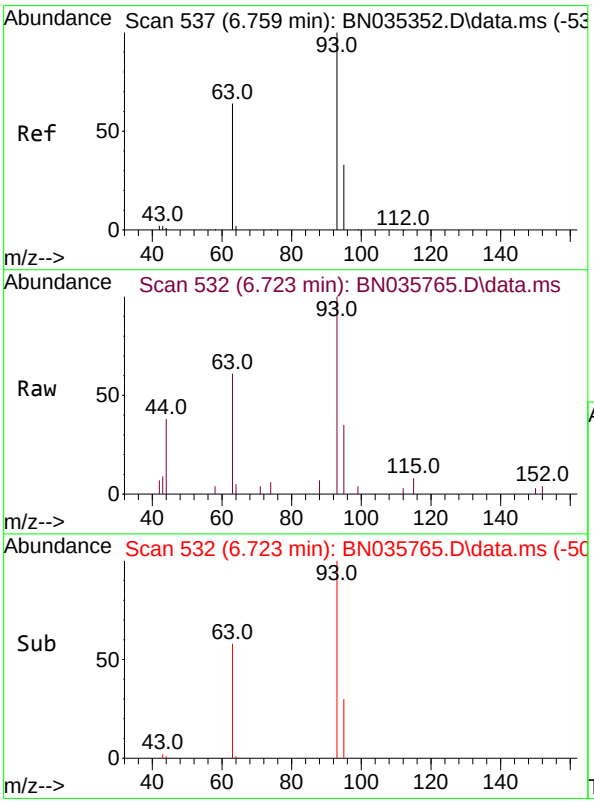
#5
Phenol-d6
Concen: 0.364 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 3879

Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.4	17.2
71	35.9	29.3	43.9

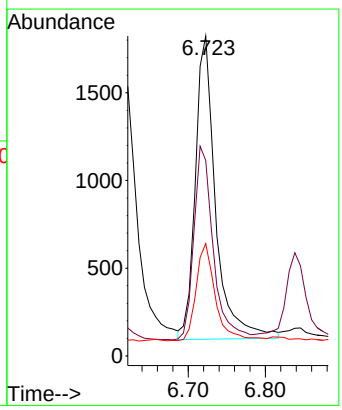


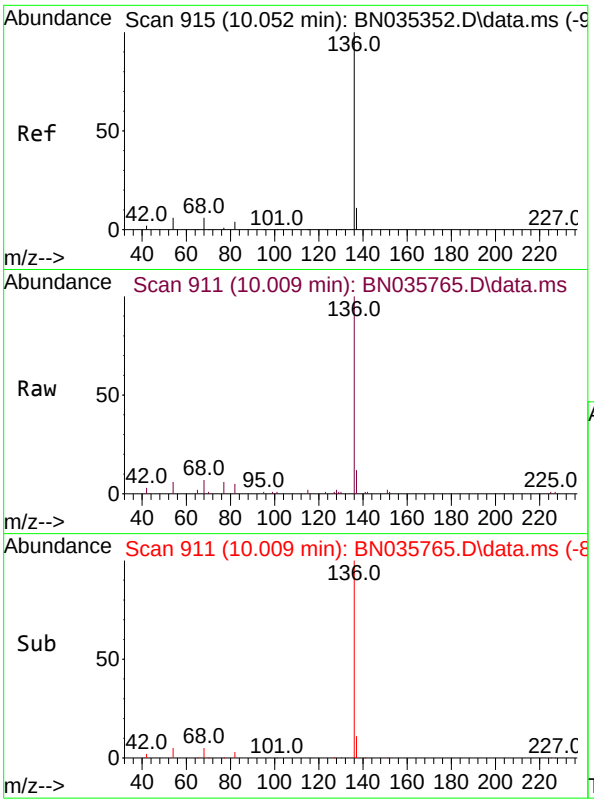


#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 6.723 min Scan# 532
Delta R.T. -0.007 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 93 Resp: 3165

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	30.6	25.7	38.5



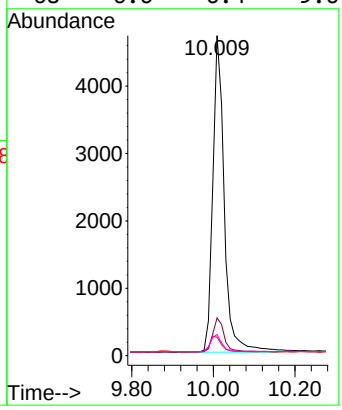


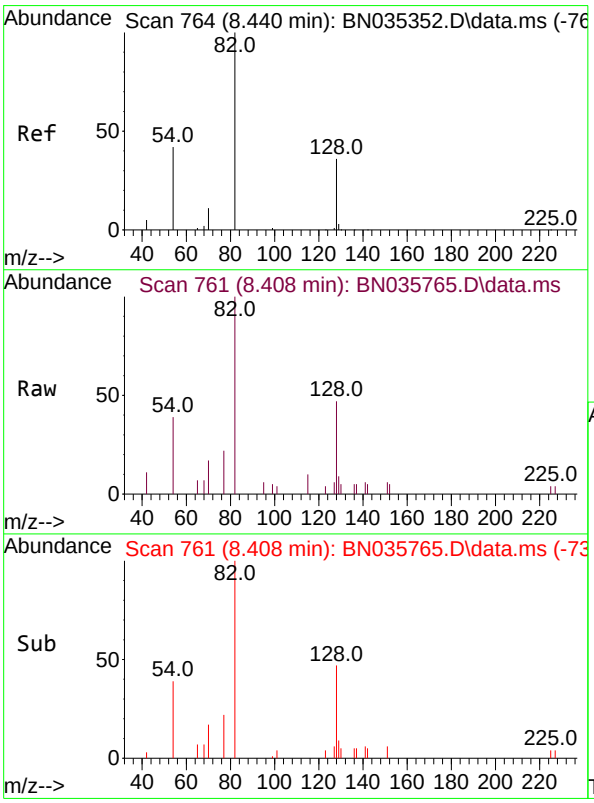
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 9106

Ion	Ratio	Lower	Upper
136	100		
137	11.8	10.2	15.2
54	5.8	6.1	9.1#
68	6.6	6.4	9.6

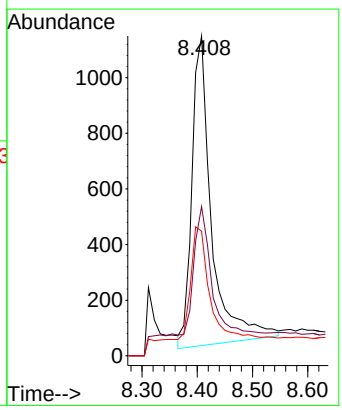


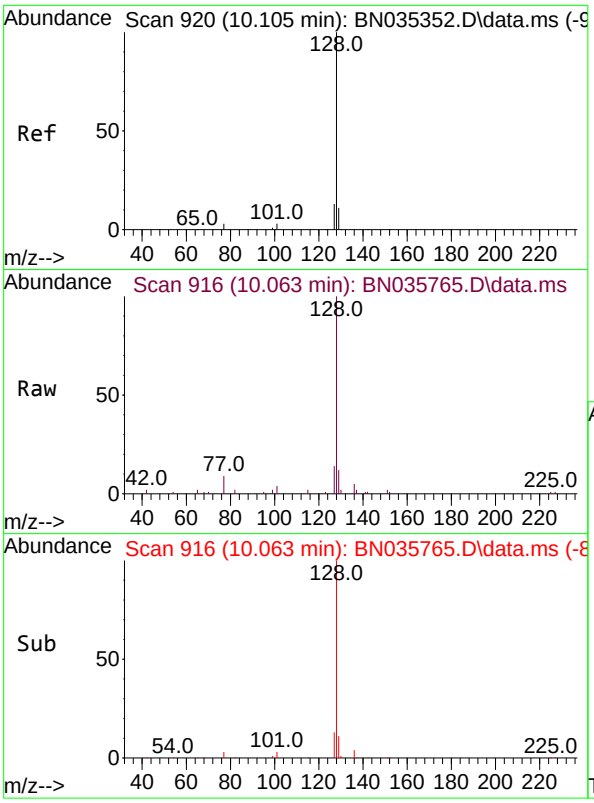


#8
Nitrobenzene-d5
Concen: 0.496 ng
RT: 8.408 min Scan# 761
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion: 82 Resp: 2756

Ion	Ratio	Lower	Upper
82	100		
128	46.7	33.4	50.0
54	39.0	36.7	55.1



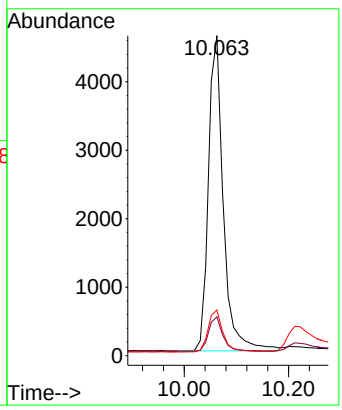


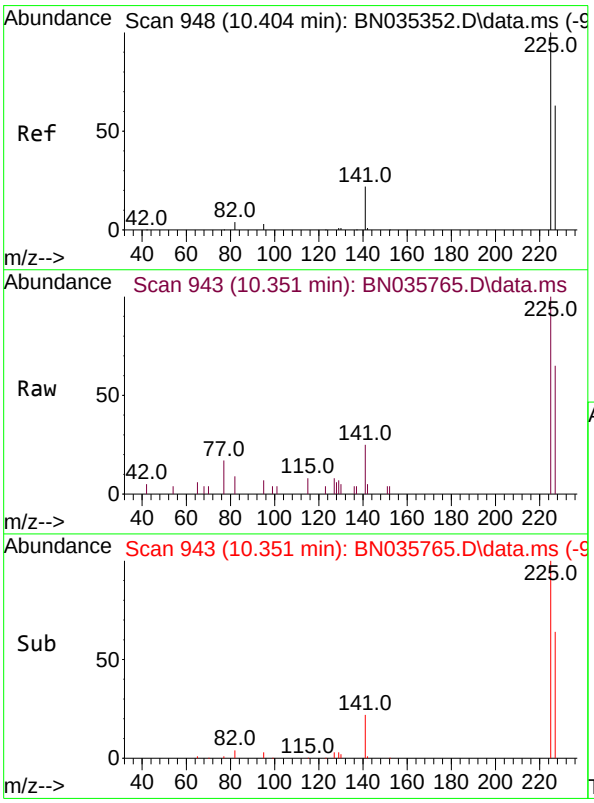
#9
Naphthalene
Concen: 0.379 ng
RT: 10.063 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 9097

Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.3	11.4	17.2

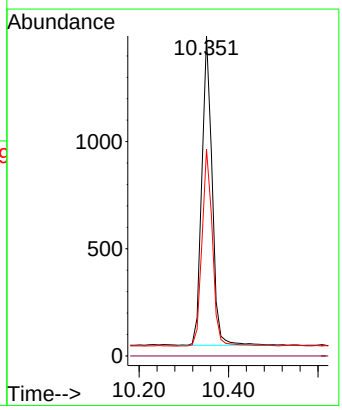


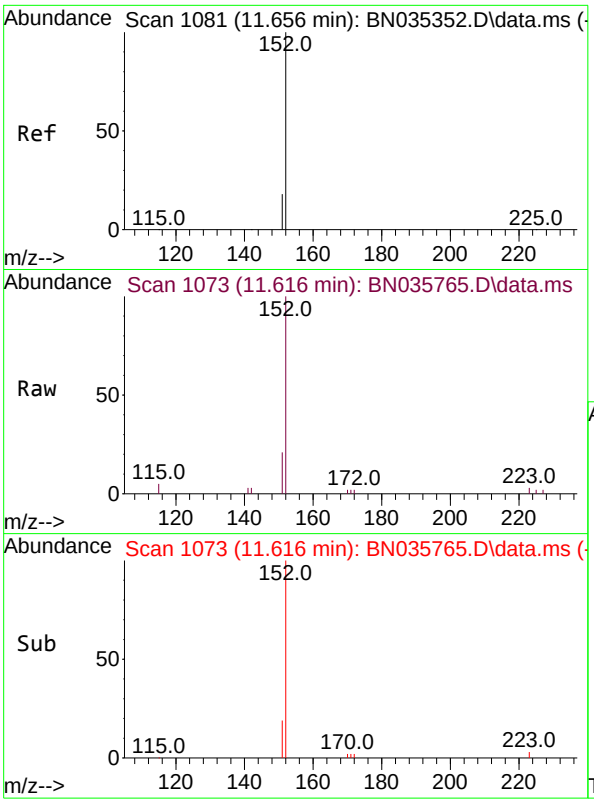


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:225 Resp: 2300

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.0	51.3	76.9



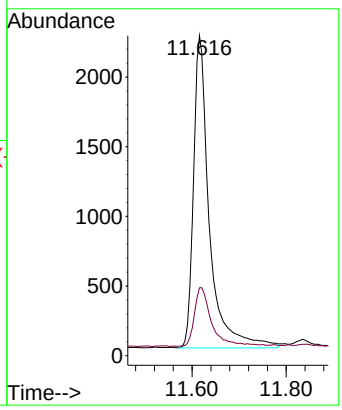


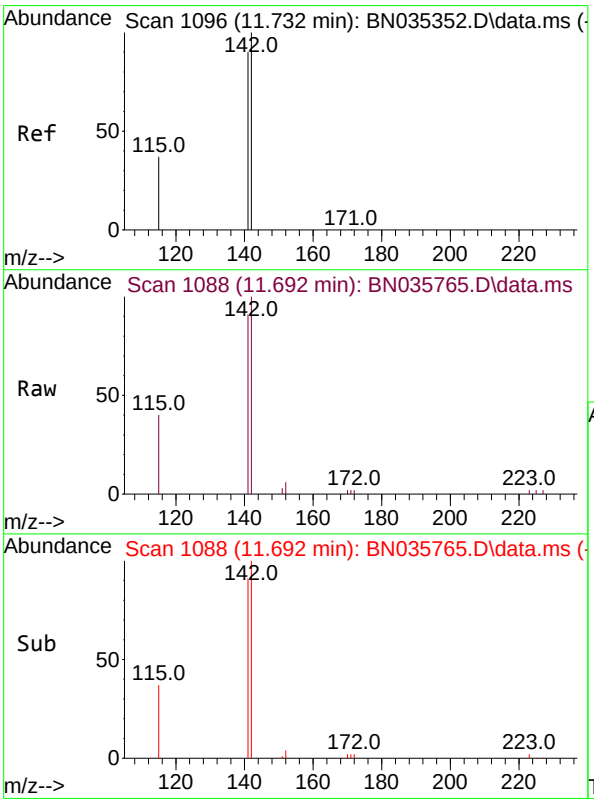
#11
2-Methylnaphthalene-d10
Concen: 0.369 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 5263

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.6	25.0

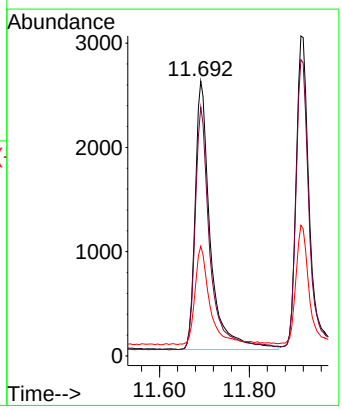


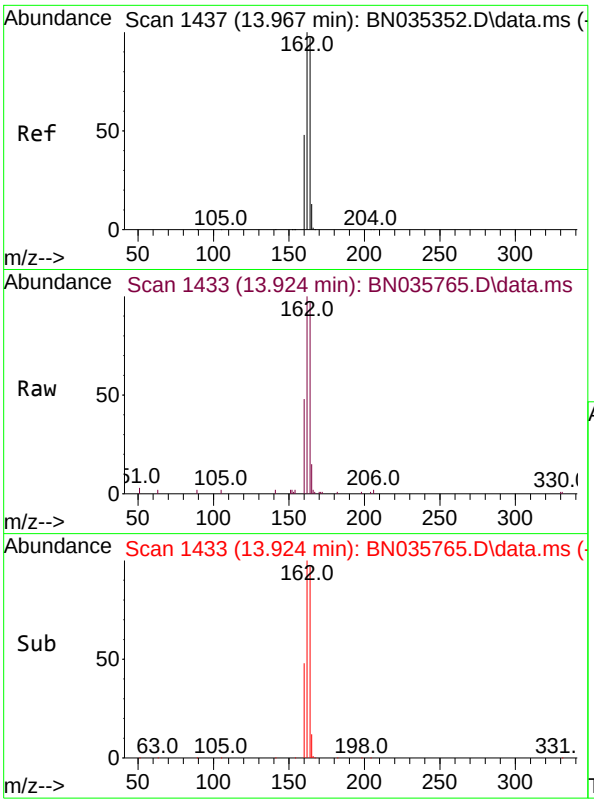


#12
2-Methylnaphthalene
Concen: 0.350 ng
RT: 11.692 min Scan# 1088
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:142 Resp: 6016

Ion	Ratio	Lower	Upper
142	100		
141	90.5	72.2	108.4
115	39.9	31.4	47.0



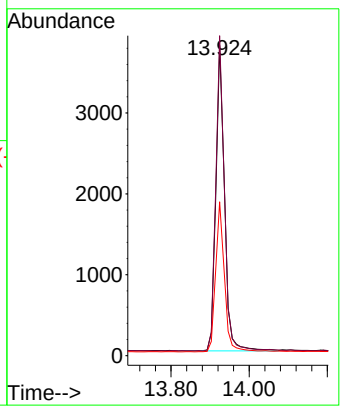


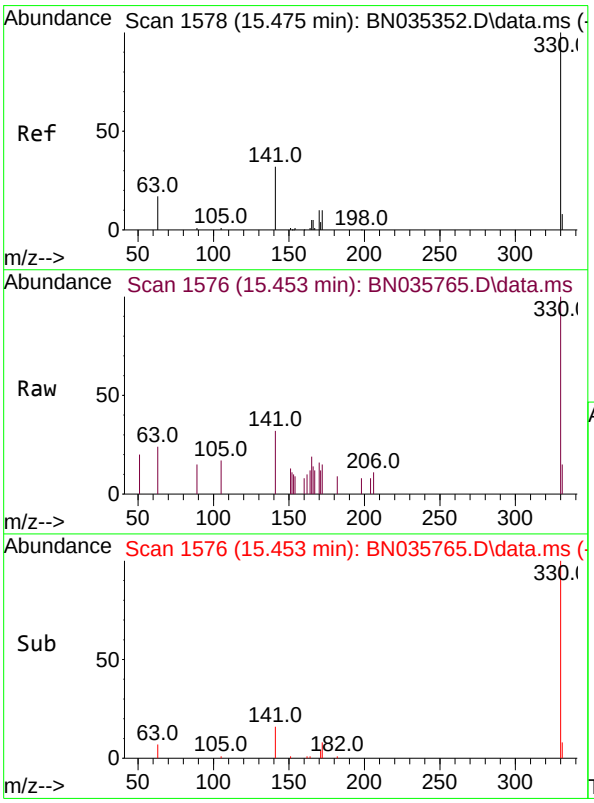
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 5821

Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.2	123.2
160	49.6	40.1	60.1

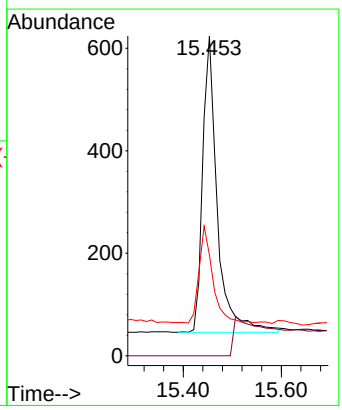


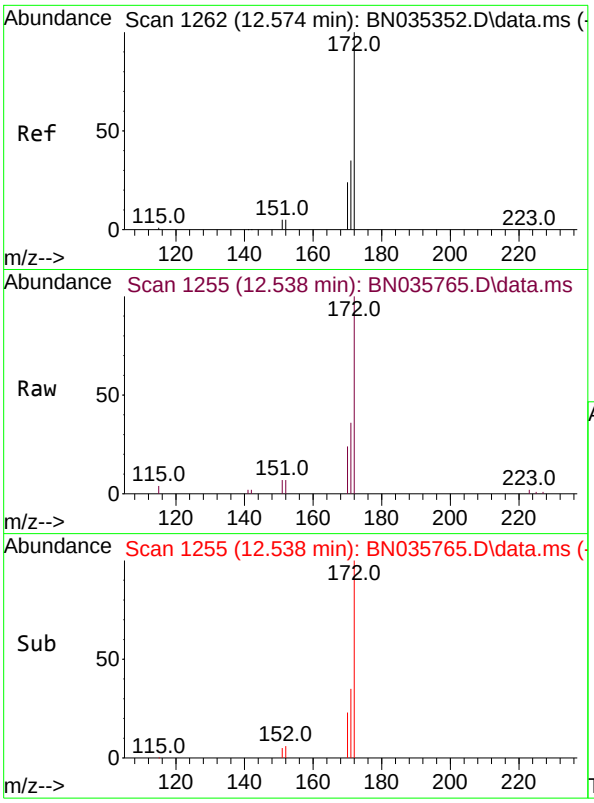


#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 15.453 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:330 Resp: 1253

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.6	26.6	40.0



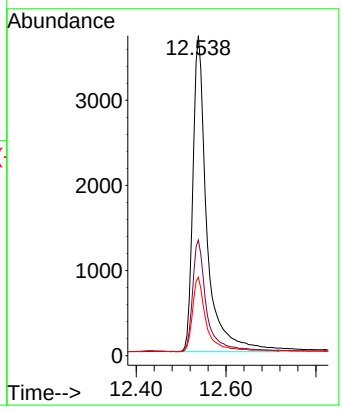


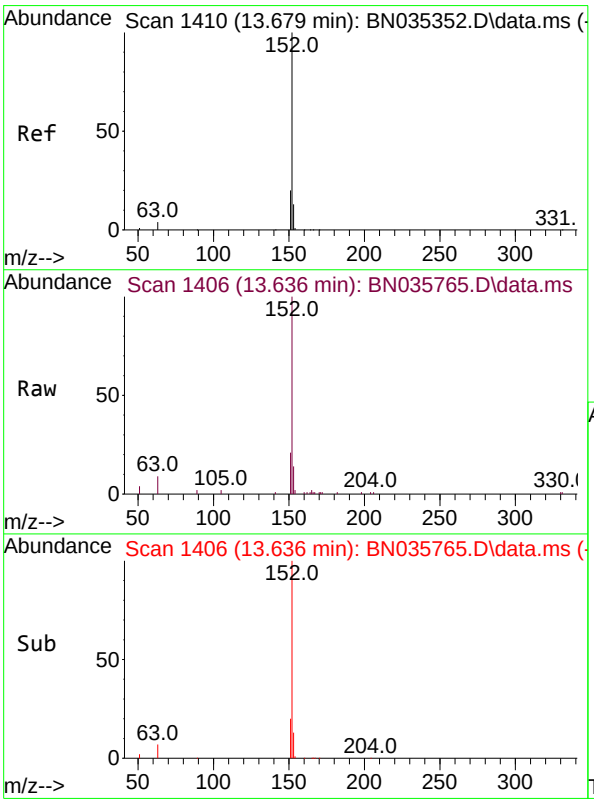
#15
2-Fluorobiphenyl
Concen: 0.367 ng
RT: 12.538 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 8084

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	24.5	19.8	29.8

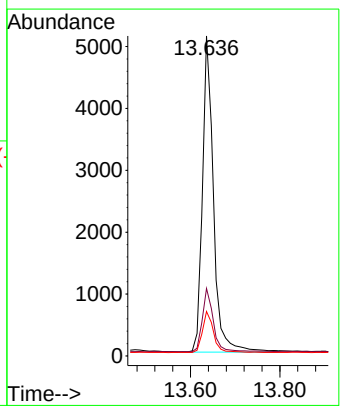


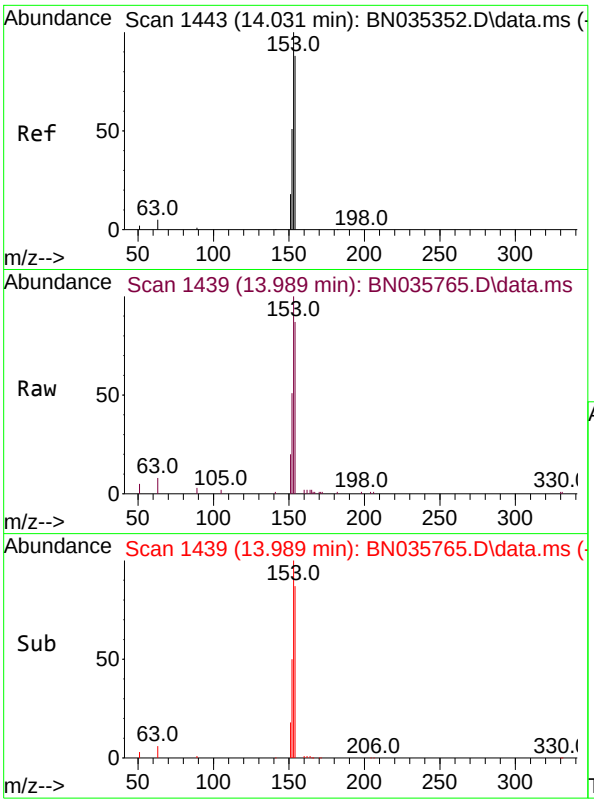


#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:152 Resp: 8764

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.0	10.4	15.6



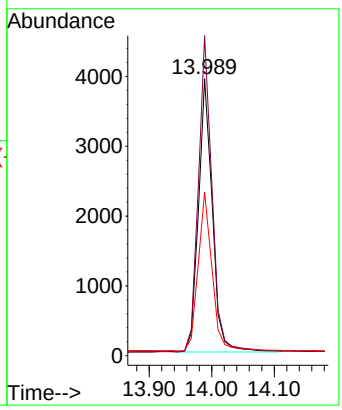


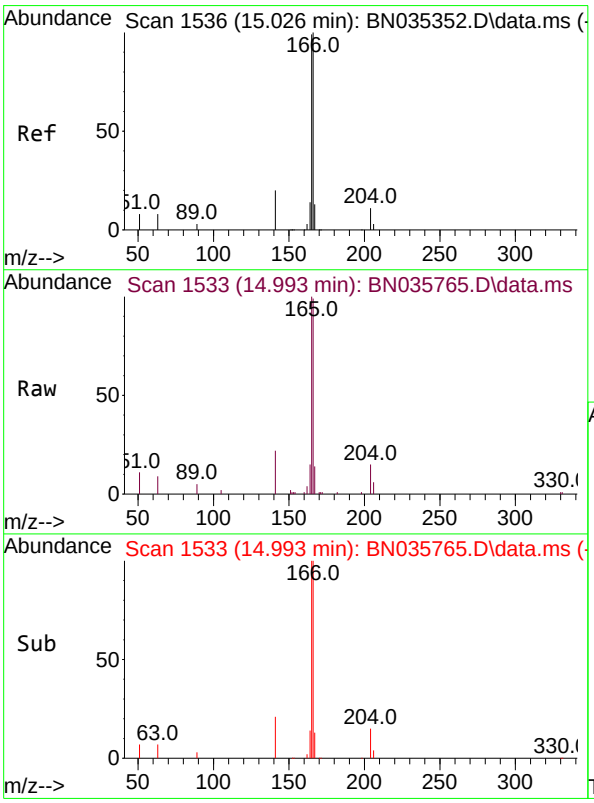
#17
Acenaphthene
Concen: 0.373 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 6047

Ion	Ratio	Lower	Upper
154	100		
153	114.7	92.6	139.0
152	58.8	49.0	73.6

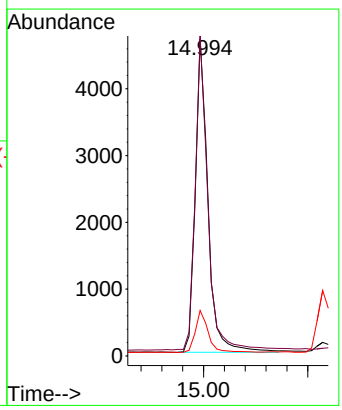


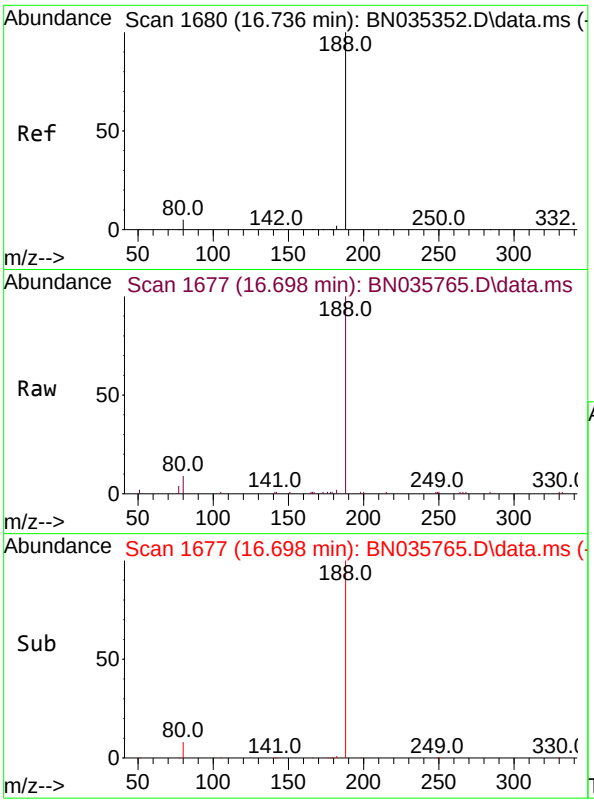


#18
Fluorene
Concen: 0.342 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:166 Resp: 7942

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2



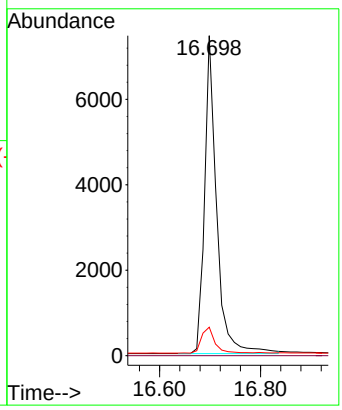


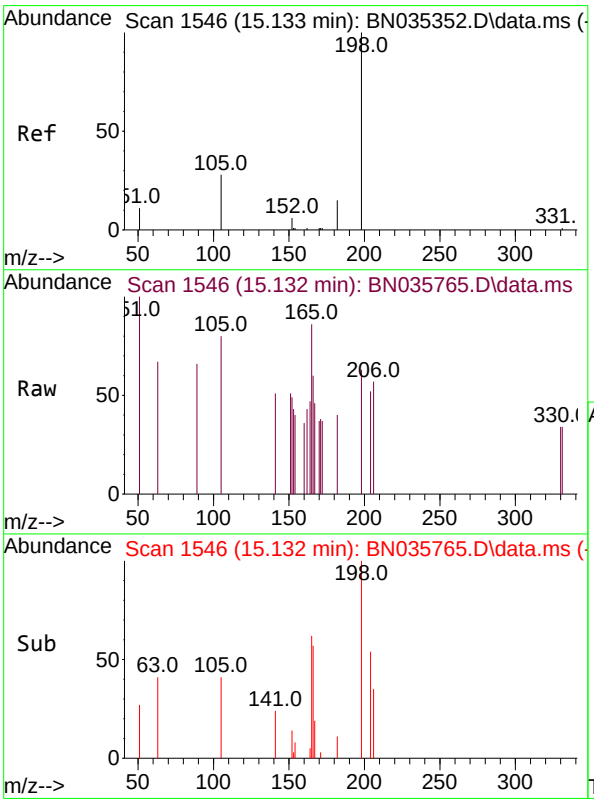
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 12321

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	4.6	6.8#

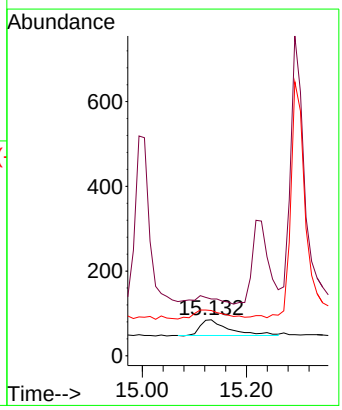


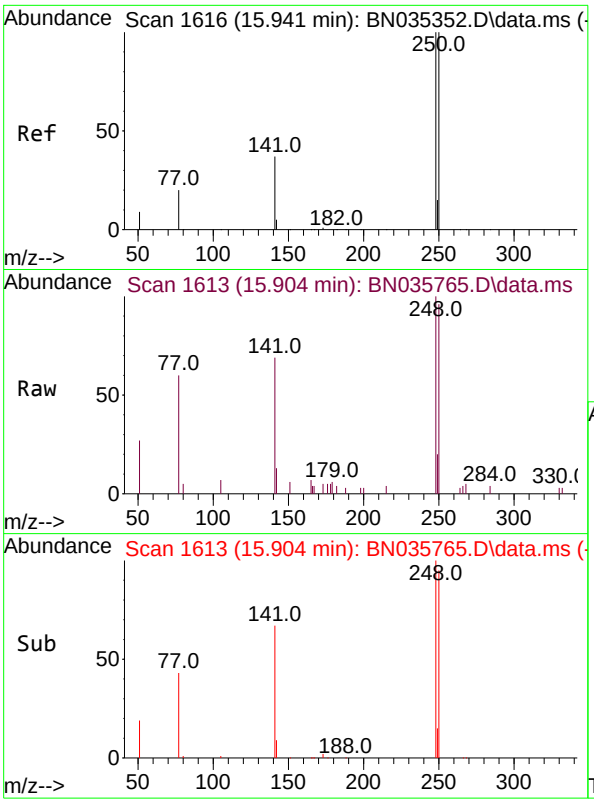


#20
4,6-Dinitro-2-methylphenol
Concen: 0.117 ng
RT: 15.132 min Scan# 1546
Delta R.T. 0.011 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:198 Resp: 142

Ion	Ratio	Lower	Upper
198	100		
51	157.6	46.5	69.7#
105	125.9	45.3	67.9#



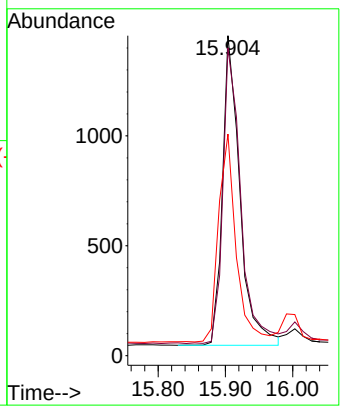


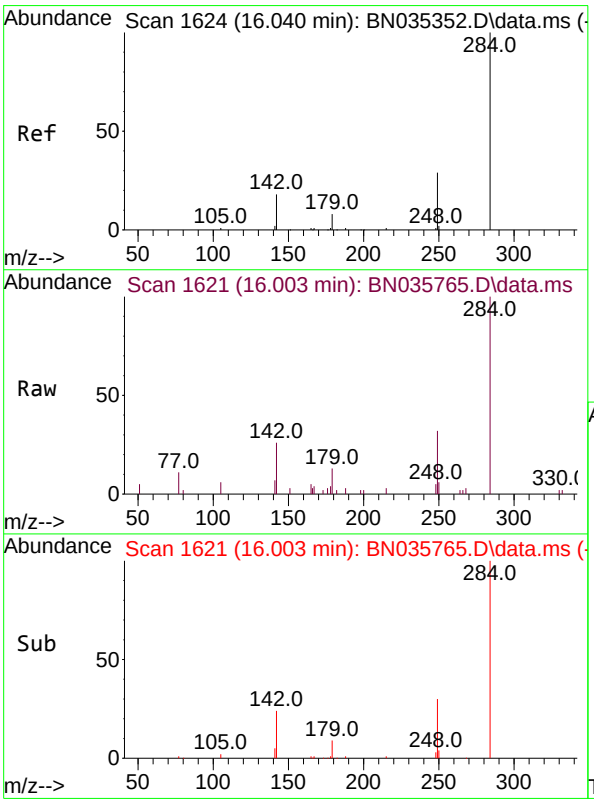
#21
4-Bromophenyl-phenylether
Concen: 0.351 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2531

Ion	Ratio	Lower	Upper
248	100		
250	96.2	80.6	120.8
141	69.2	31.5	47.3#

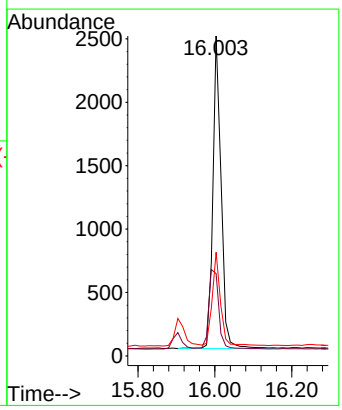


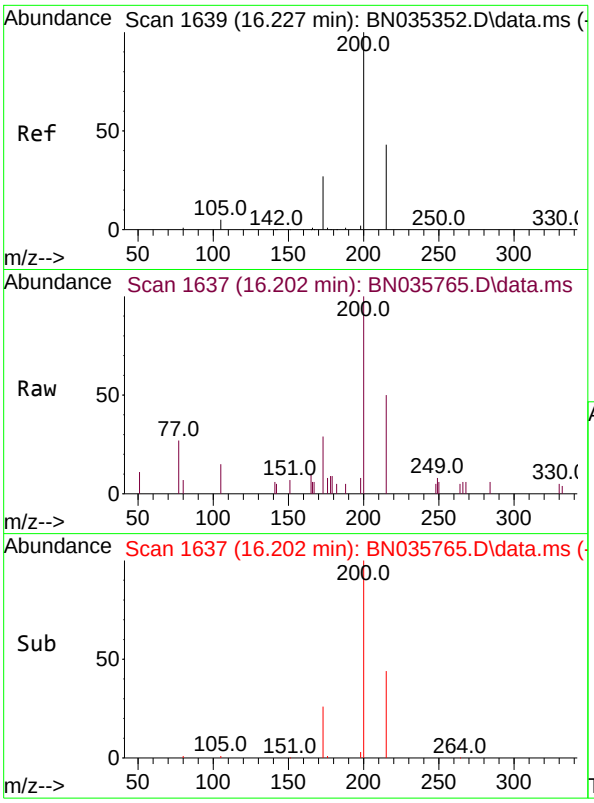


#22
Hexachlorobenzene
Concen: 0.433 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:284 Resp: 3667

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	29.9	24.6	36.8



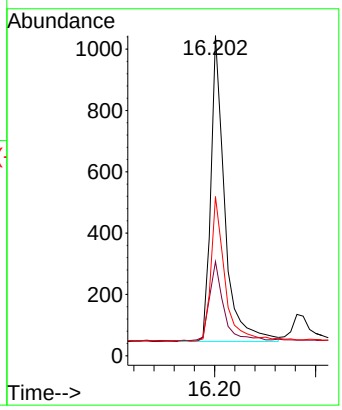


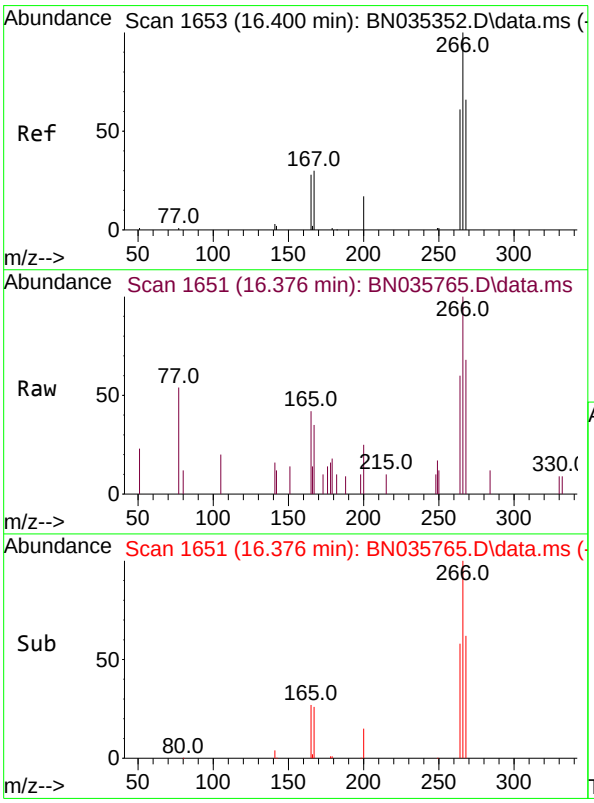
#23
Atrazine
Concen: 0.369 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1895

Ion	Ratio	Lower	Upper
200	100		
173	29.4	24.1	36.1
215	49.7	36.9	55.3

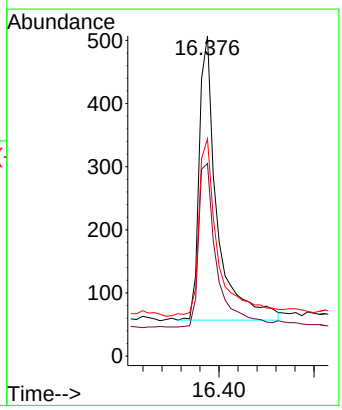


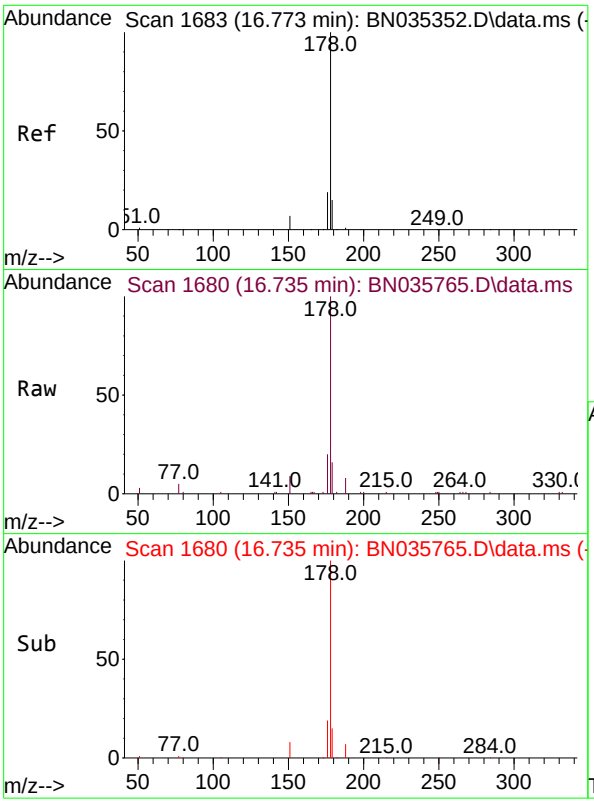


#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.376 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:266 Resp: 1177

Ion	Ratio	Lower	Upper
266	100		
264	59.3	42.3	63.5
268	67.2	43.3	64.9#



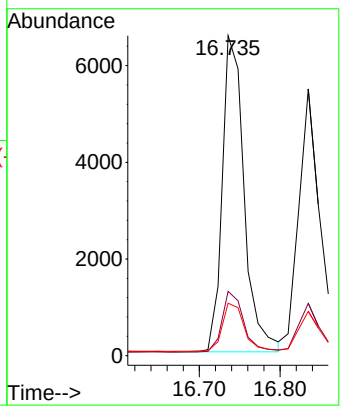


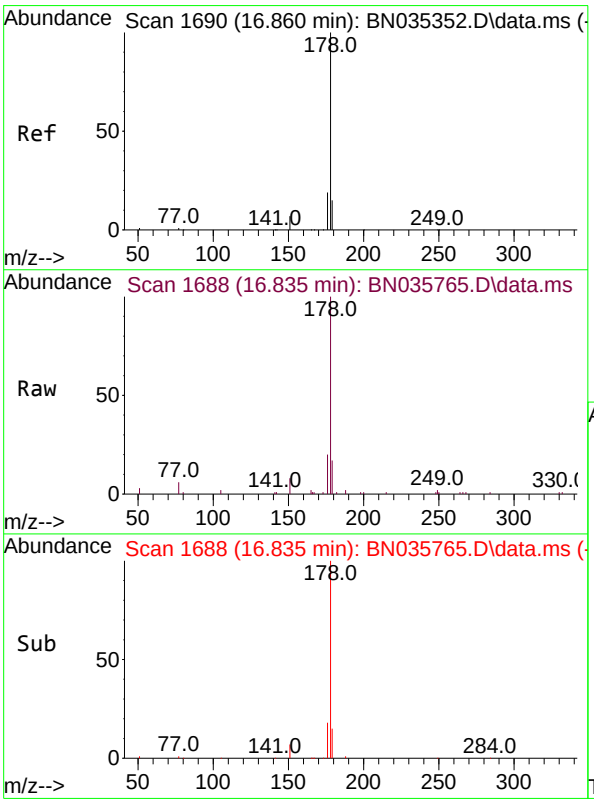
#25
Phenanthrene
Concen: 0.365 ng
RT: 16.735 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 12350

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.4	12.3	18.5

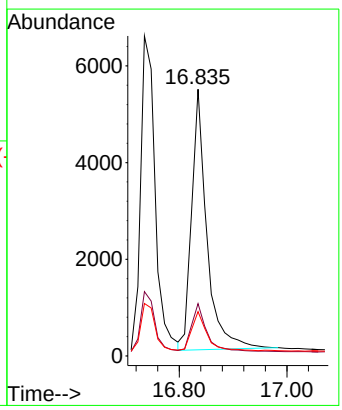


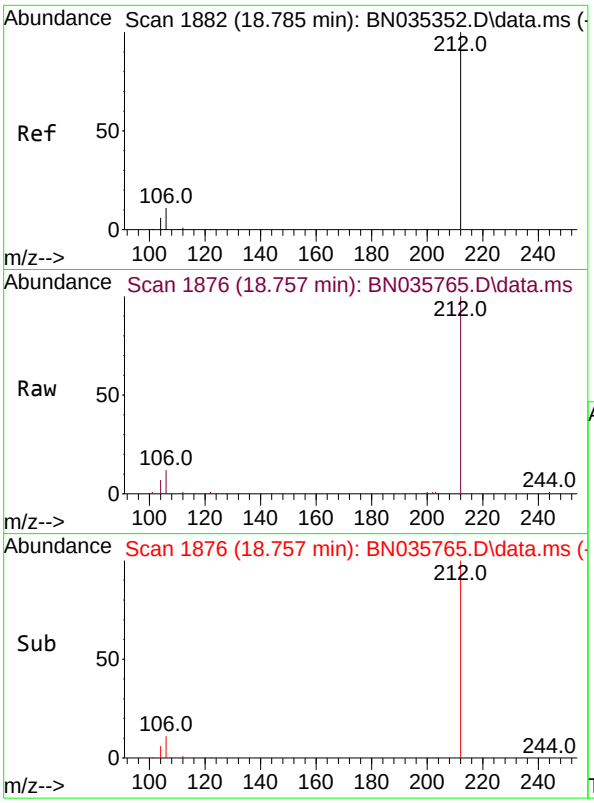


#26
Anthracene
Concen: 0.347 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:178 Resp: 10612

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.6	18.8



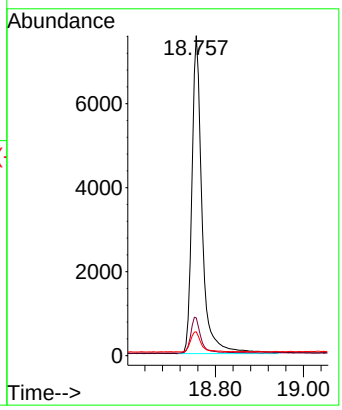


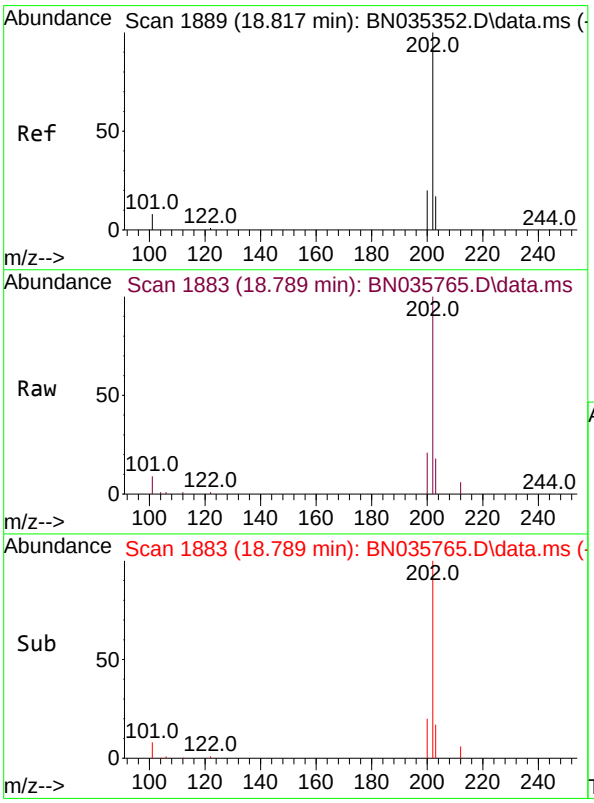
#27
Fluoranthene-d10
Concen: 0.349 ng
RT: 18.757 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 12191

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.5	5.3	7.9

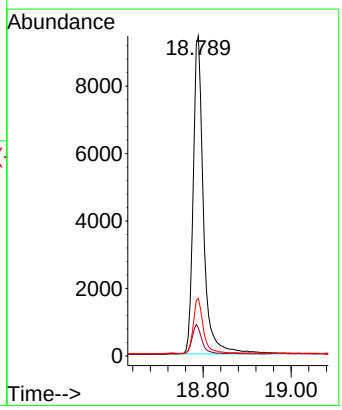


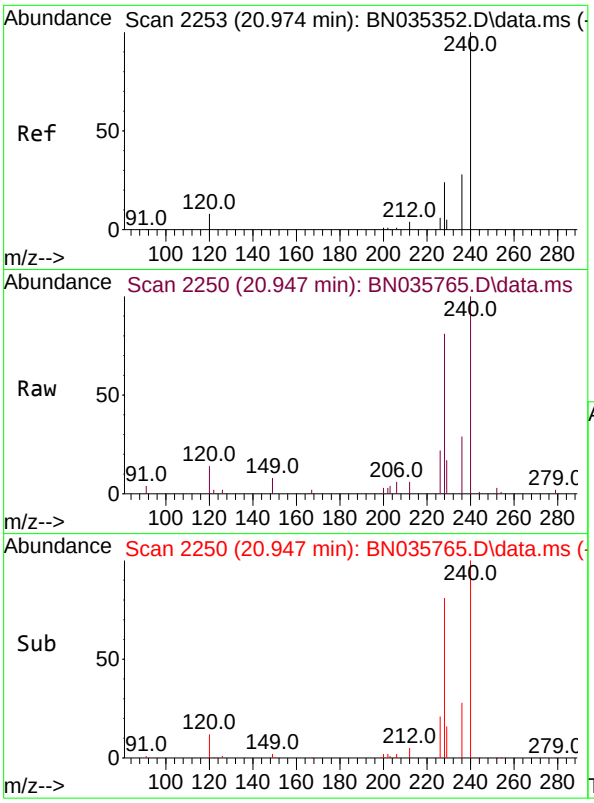


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.789 min Scan# 1883
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15375

Ion	Ratio	Lower	Upper
202	100		
101	9.2	7.4	11.0
203	16.8	13.7	20.5



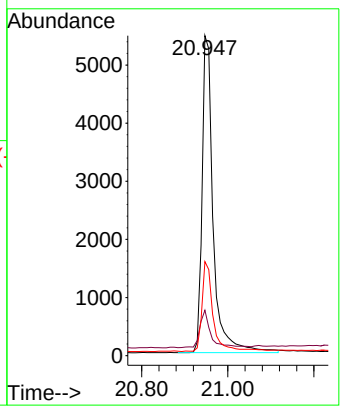


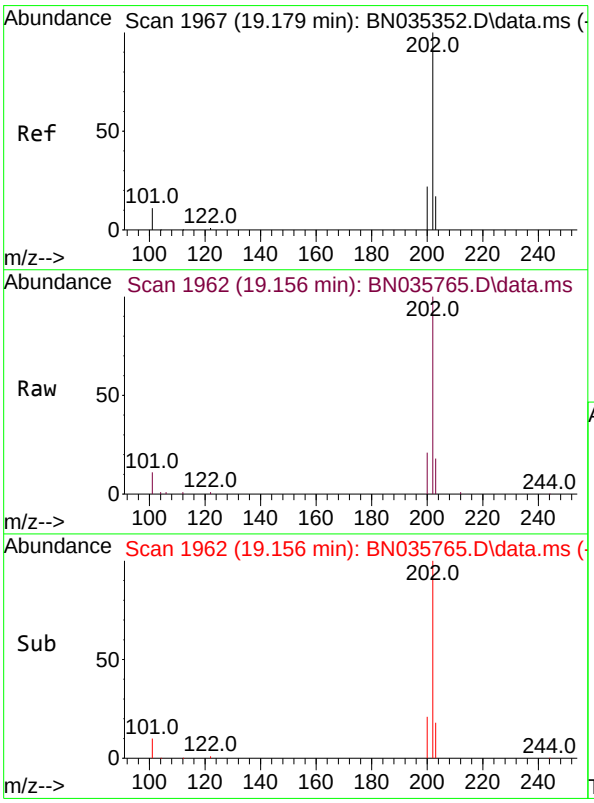
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 9836

Ion	Ratio	Lower	Upper
240	100		
120	14.2	7.9	11.9#
236	29.4	22.9	34.3

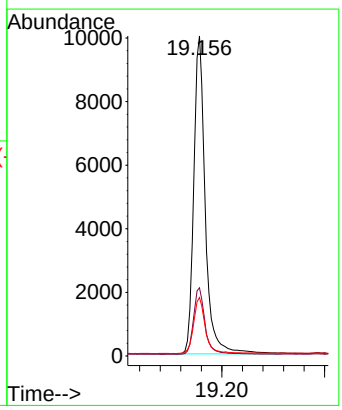


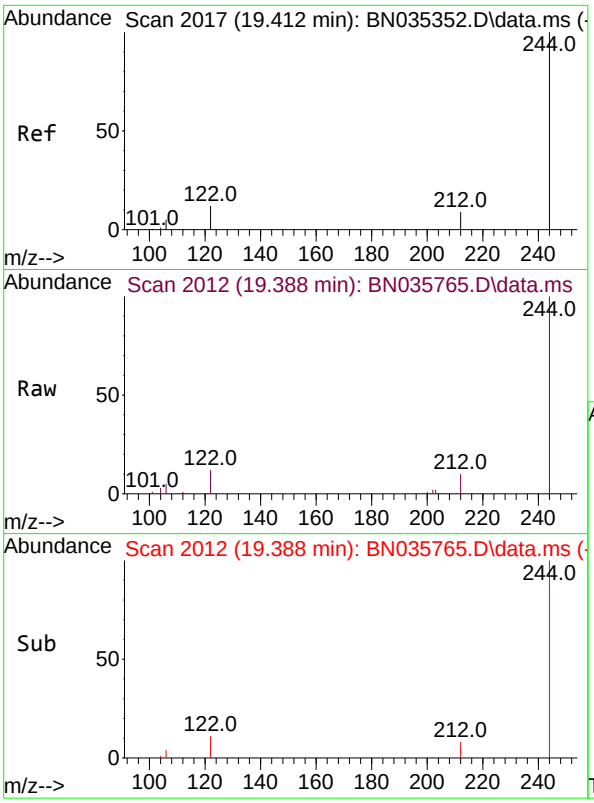


#30
Pyrene
Concen: 0.429 ng
RT: 19.156 min Scan# 1962
Delta R.T. -0.005 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:202 Resp: 15587

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



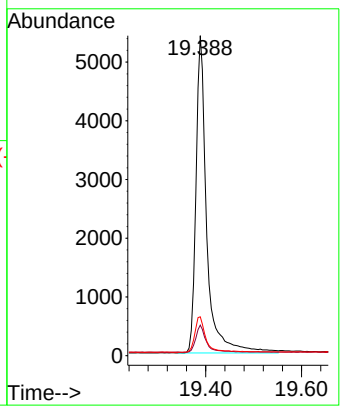


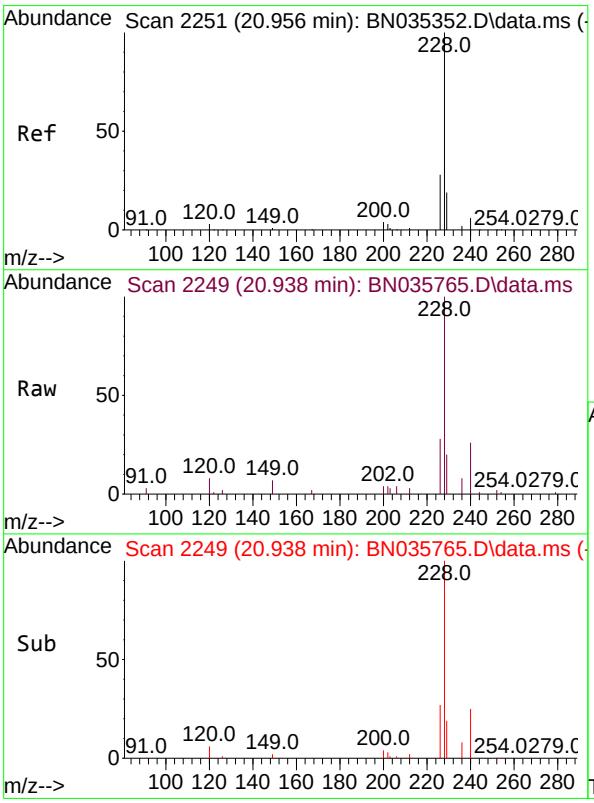
#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 8488

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	12.1	10.3	15.5

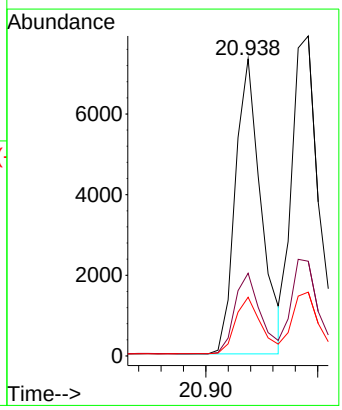


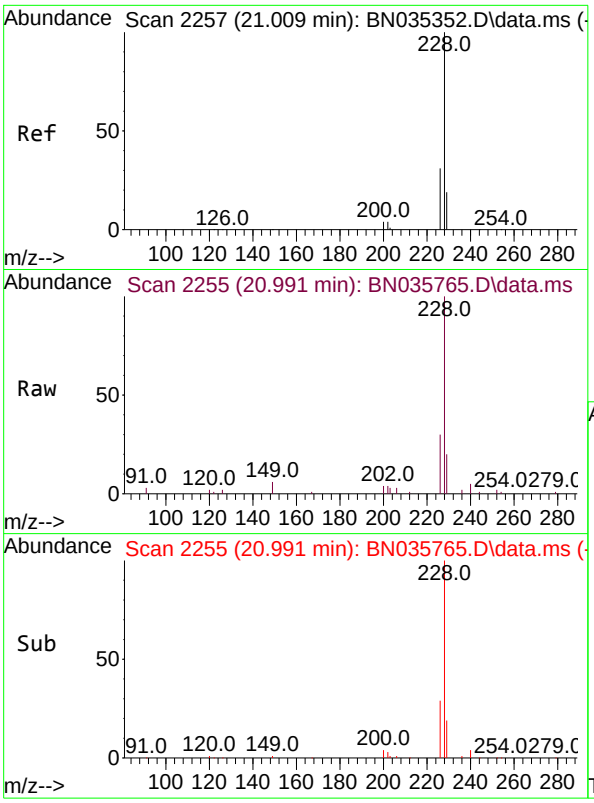


#32
Benzo(a)anthracene
Concen: 0.339 ng
RT: 20.938 min Scan# 2249
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:228 Resp: 11659

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.5	33.7
229	19.8	15.8	23.8



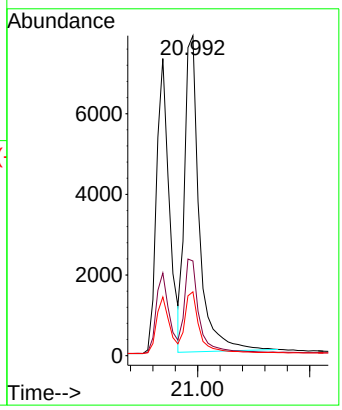


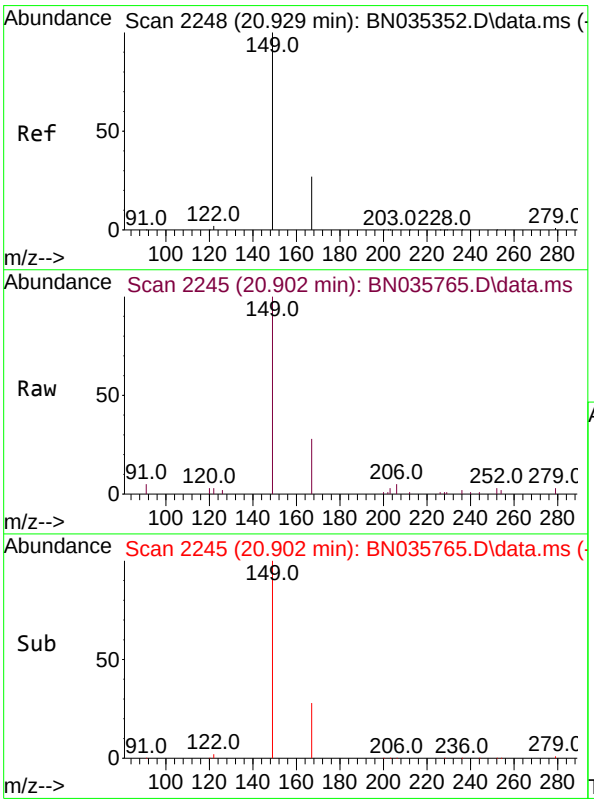
#33
Chrysene
Concen: 0.402 ng
RT: 20.991 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 14263

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.6	37.0
229	20.0	15.9	23.9

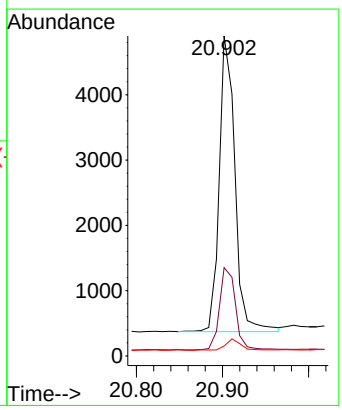


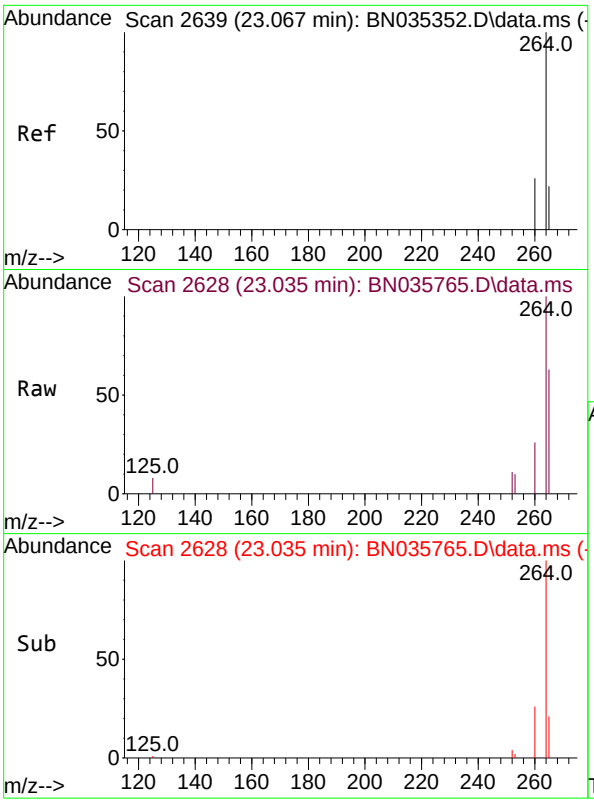


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.419 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:149 Resp: 5697

Ion	Ratio	Lower	Upper
149	100		
167	28.5	22.2	33.4
279	3.9	2.7	4.1



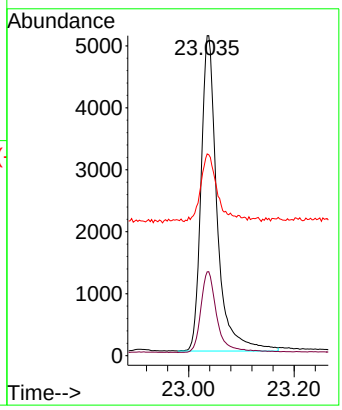


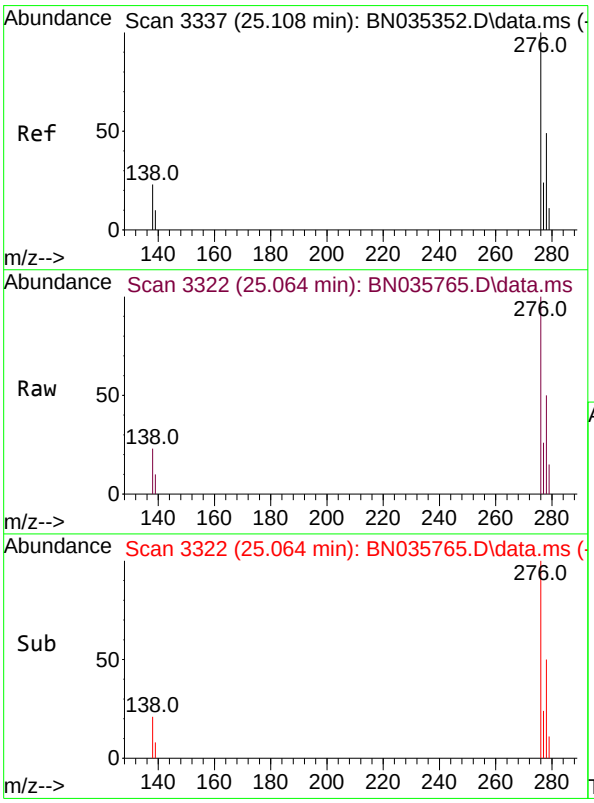
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 10740

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.4	32.2
265	63.0	40.2	60.4#

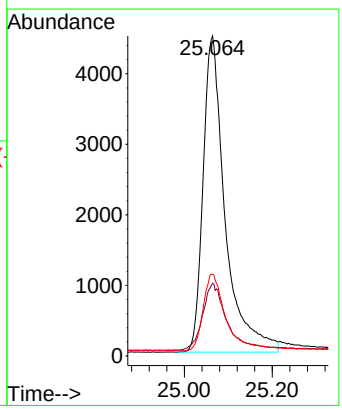


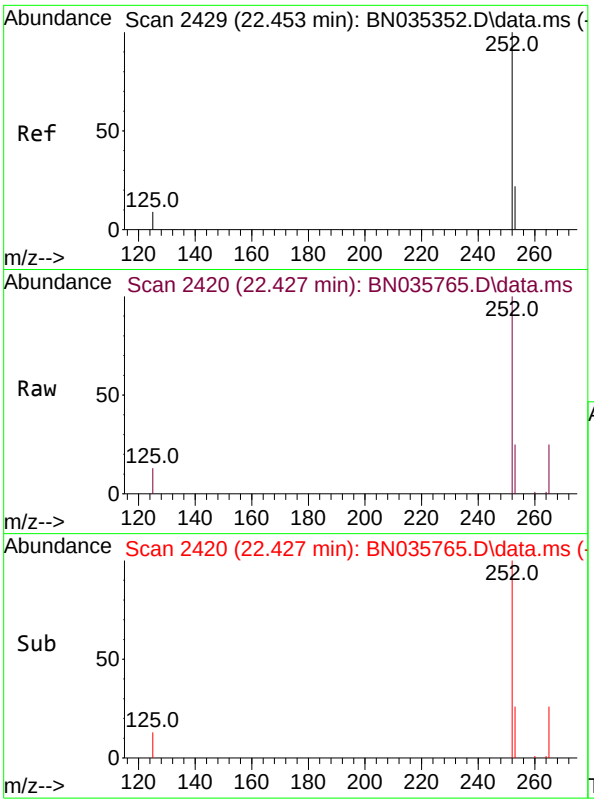


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.064 min Scan# 3322
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:276 Resp: 15666

Ion	Ratio	Lower	Upper
276	100		
138	22.9	19.4	29.0
277	24.7	19.8	29.6



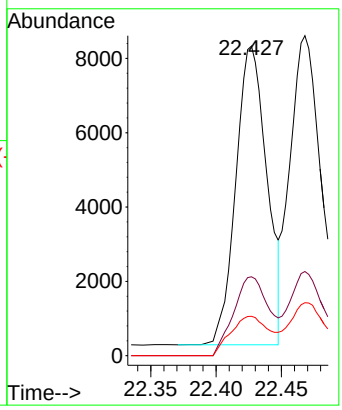


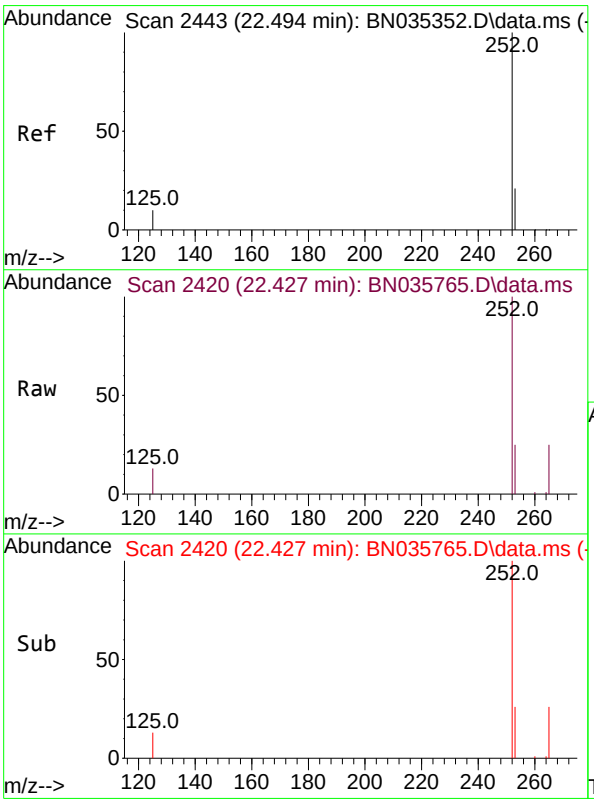
#37
Benzo(b)fluoranthene
Concen: 0.484 ng
RT: 22.427 min Scan# 24
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 19003

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.6	29.4
125	12.7	9.6	14.4

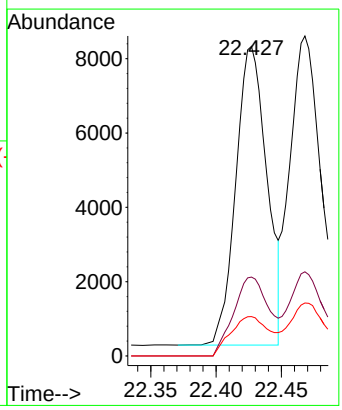


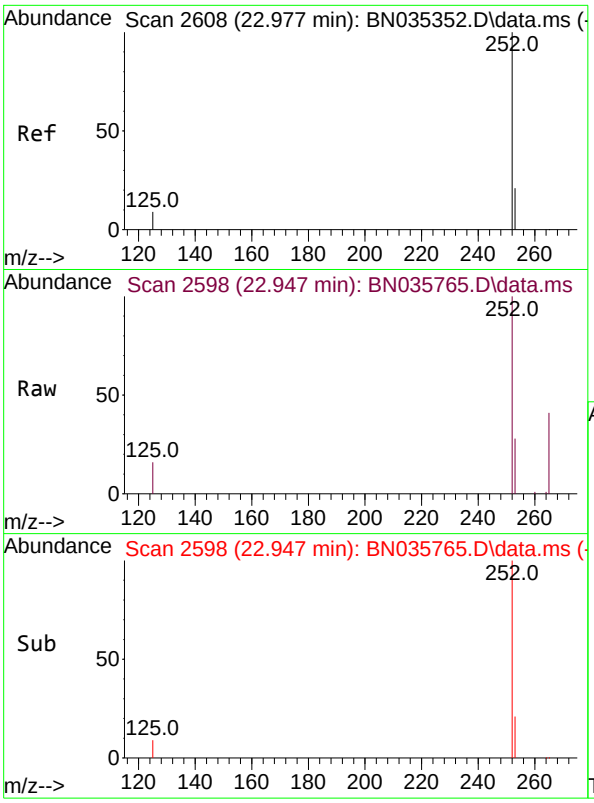


#38
Benzo(k)fluoranthene
Concen: 0.491 ng
RT: 22.427 min Scan# 2420
Delta R.T. -0.044 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:252 Resp: 19003

Ion	Ratio	Lower	Upper
252	100		
253	25.5	19.5	29.3
125	12.7	10.2	15.4



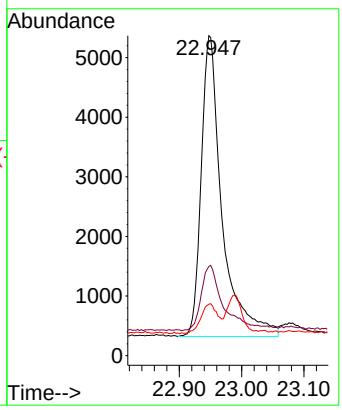


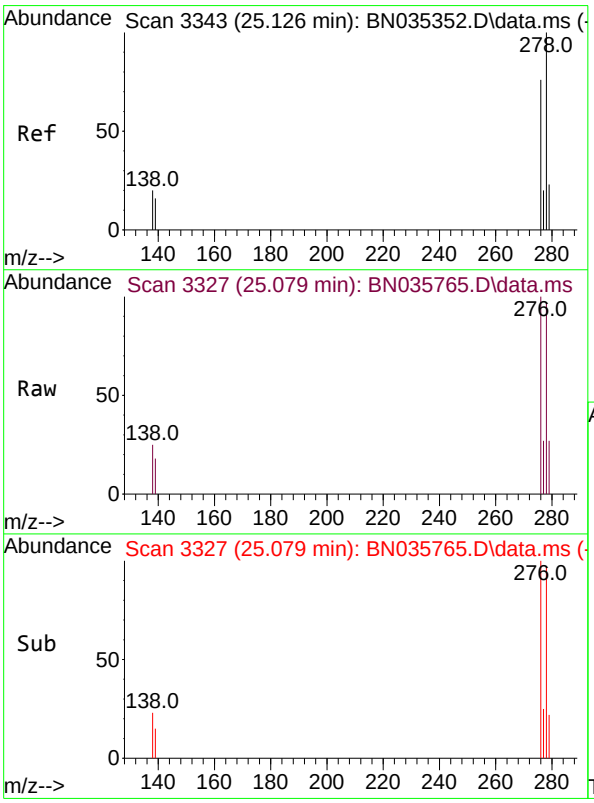
#39
Benzo(a)pyrene
Concen: 0.363 ng
RT: 22.947 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 11742

Ion	Ratio	Lower	Upper
252	100		
253	27.9	20.2	30.4
125	16.1	10.9	16.3

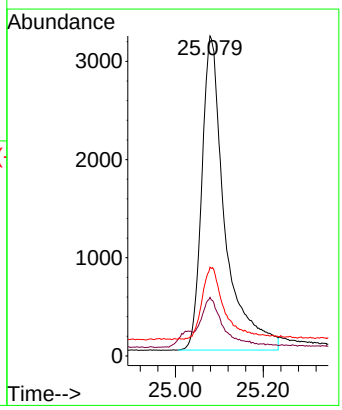


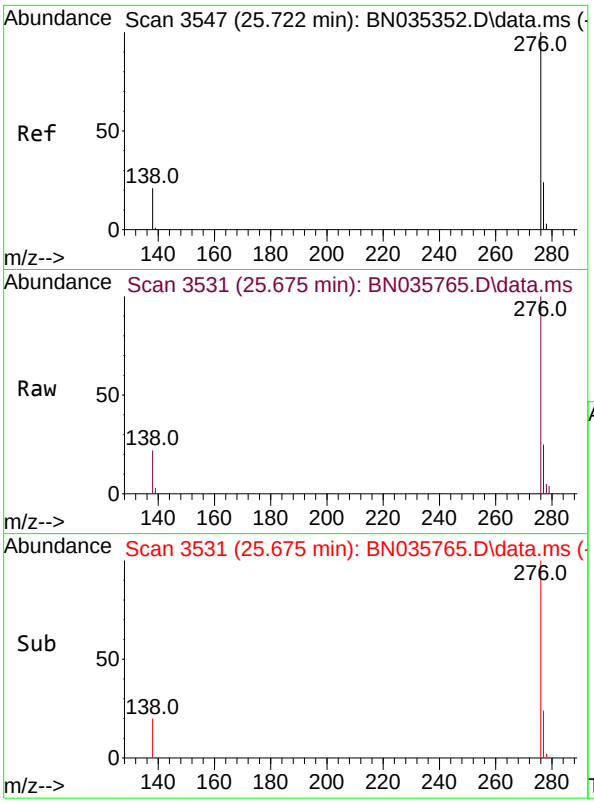


#40
Dibenzo(a,h)anthracene
Concen: 0.352 ng
RT: 25.079 min Scan# 3327
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Tgt Ion:278 Resp: 11661

Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.2	21.4
279	27.7	20.5	30.7



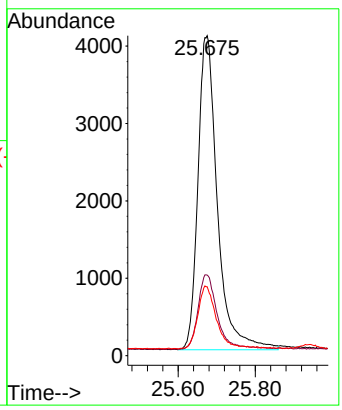


#41
Benzo(g,h,i)perylene
Concen: 0.411 ng
RT: 25.675 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035765.D
Acq: 21 Dec 2024 05:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 14236

Ion	Ratio	Lower	Upper
276	100		
277	25.2	19.9	29.9
138	21.5	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration

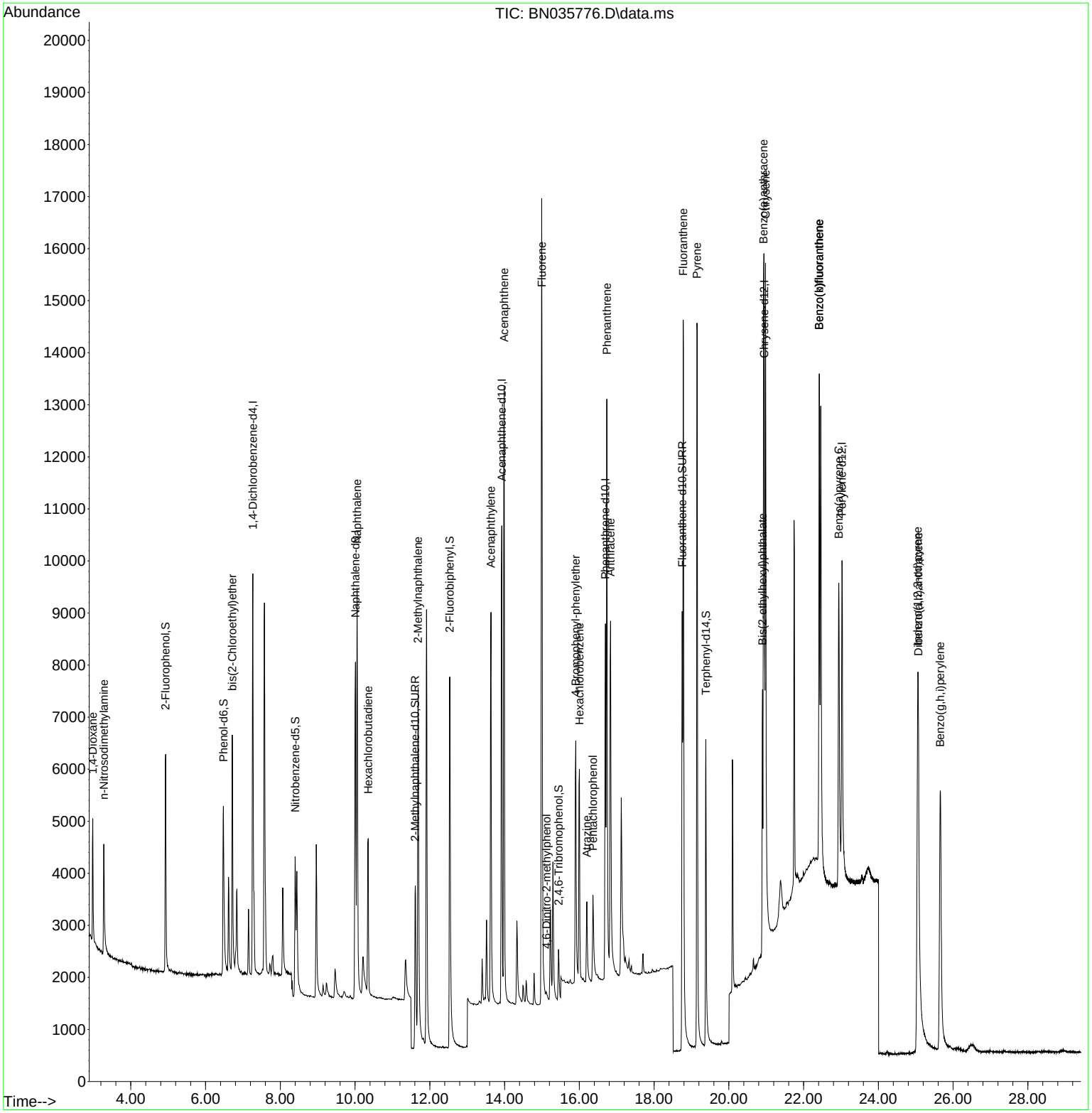
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.264	152	3884	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	10099	0.400	ng		#-0.01
13) Acenaphthene-d10	13.924	164	5893	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	11548	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	8770	0.400	ng		0.00
35) Perylene-d12	23.026	264	8918	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.931	112	3917	0.403	ng		0.00
5) Phenol-d6	6.477	99	4314	0.369	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3236	0.525	ng		-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6074	0.384	ng		-0.01
14) 2,4,6-Tribromophenol	15.442	330	1206	0.288	ng		-0.01
15) 2-Fluorobiphenyl	12.533	172	9436	0.424	ng		-0.01
27) Fluoranthene-d10	18.752	212	11979	0.366	ng		0.00
31) Terphenyl-d14	19.384	244	8267	0.478	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.981	88	1665	0.448	ng		99
3) n-Nitrosodimethylamine	3.278	42	1278	0.413	ng	#	88
6) bis(2-Chloroethyl)ether	6.715	93	3946	0.402	ng		98
9) Naphthalene	10.052	128	10927	0.410	ng		99
10) Hexachlorobutadiene	10.351	225	2685	0.437	ng	#	100
12) 2-Methylnaphthalene	11.686	142	6976	0.366	ng		98
16) Acenaphthylene	13.636	152	9517	0.385	ng		99
17) Acenaphthene	13.989	154	6826	0.415	ng		97
18) Fluorene	14.993	166	8480	0.361	ng		99
20) 4,6-Dinitro-2-methylph...	15.122	198	178	0.157	ng	#	1
21) 4-Bromophenyl-phenylether	15.904	248	2687	0.398	ng	#	94
22) Hexachlorobenzene	16.003	284	3943	0.497	ng		95
23) Atrazine	16.202	200	1724	0.359	ng		95
24) Pentachlorophenol	16.363	266	1350	0.391	ng		89
25) Phenanthrene	16.735	178	12569	0.396	ng		100
26) Anthracene	16.835	178	10686	0.372	ng		99
28) Fluoranthene	18.780	202	15101	0.353	ng		99
30) Pyrene	19.147	202	15291	0.472	ng		99
32) Benzo(a)anthracene	20.929	228	10904	0.355	ng		99
33) Chrysene	20.982	228	14126	0.447	ng		100
34) Bis(2-ethylhexyl)phtha...	20.902	149	4992	0.412	ng		99
36) Indeno(1,2,3-cd)pyrene	25.052	276	12530	0.359	ng		98
37) Benzo(b)fluoranthene	22.418	252	21074	0.646	ng		96
38) Benzo(k)fluoranthene	22.418	252	21074	0.656	ng		97
39) Benzo(a)pyrene	22.942	252	10518	0.391	ng	#	91
40) Dibenzo(a,h)anthracene	25.070	278	9258	0.337	ng		94
41) Benzo(g,h,i)perylene	25.658	276	11833	0.412	ng		99

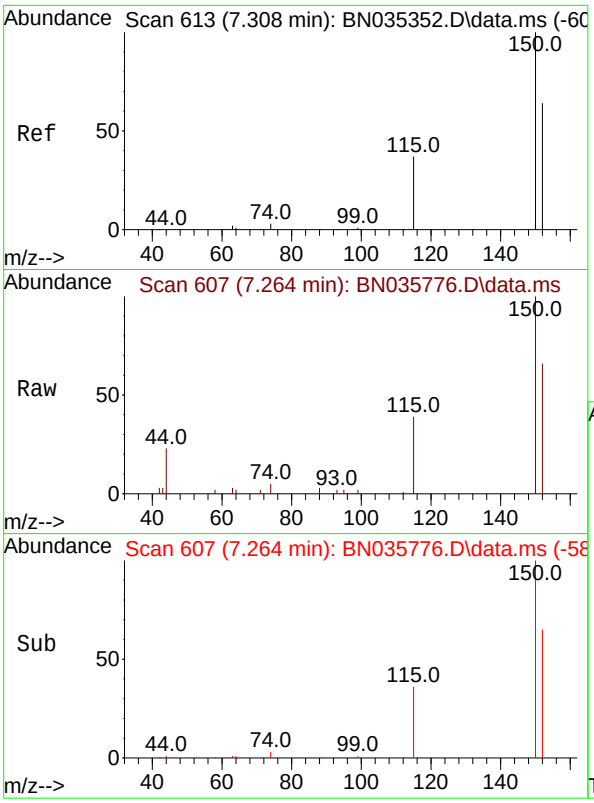
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035776.D
Acq On : 23 Dec 2024 10:22
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 58 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 23 11:23:28 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



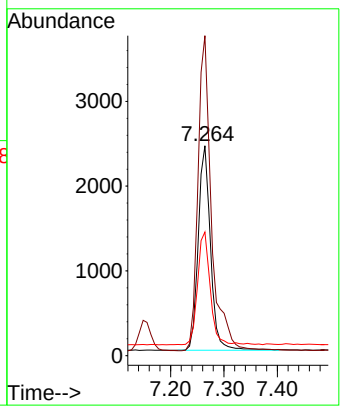


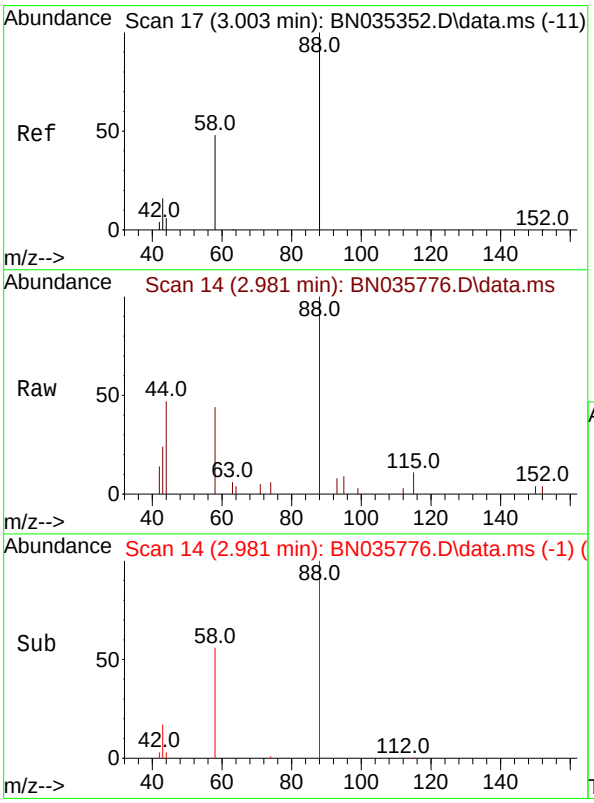
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 3884

Ion	Ratio	Lower	Upper
152	100		
150	152.4	124.0	186.0
115	58.9	49.6	74.4

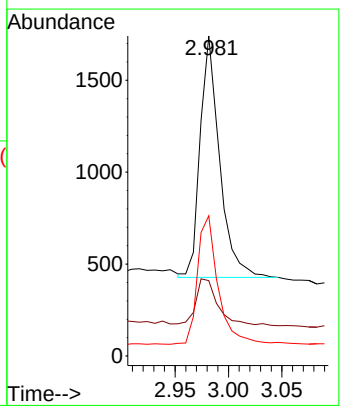


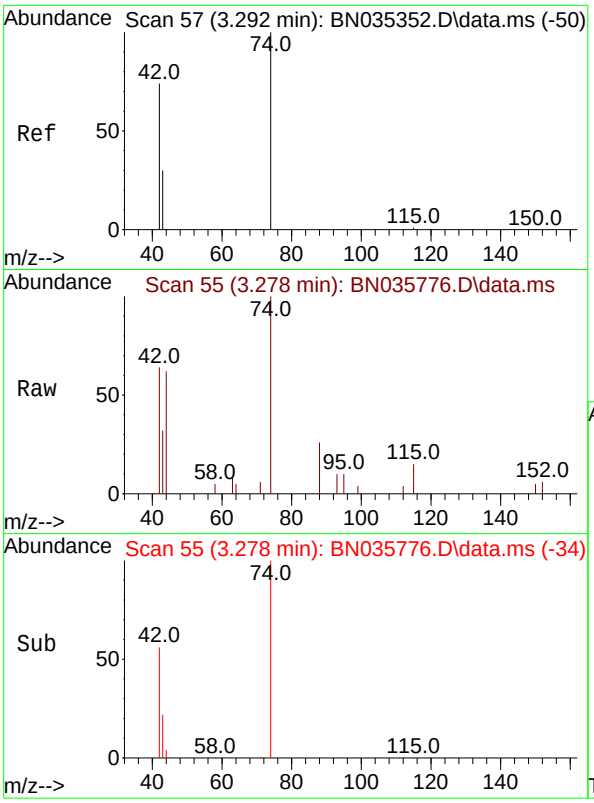


#2
1,4-Dioxane
Concen: 0.448 ng
RT: 2.981 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 88 Resp: 1665

Ion	Ratio	Lower	Upper
88	100		
43	22.6	17.2	25.8
58	55.9	44.5	66.7



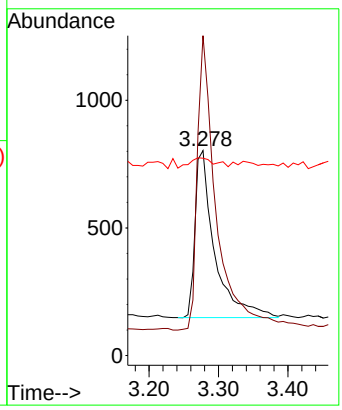


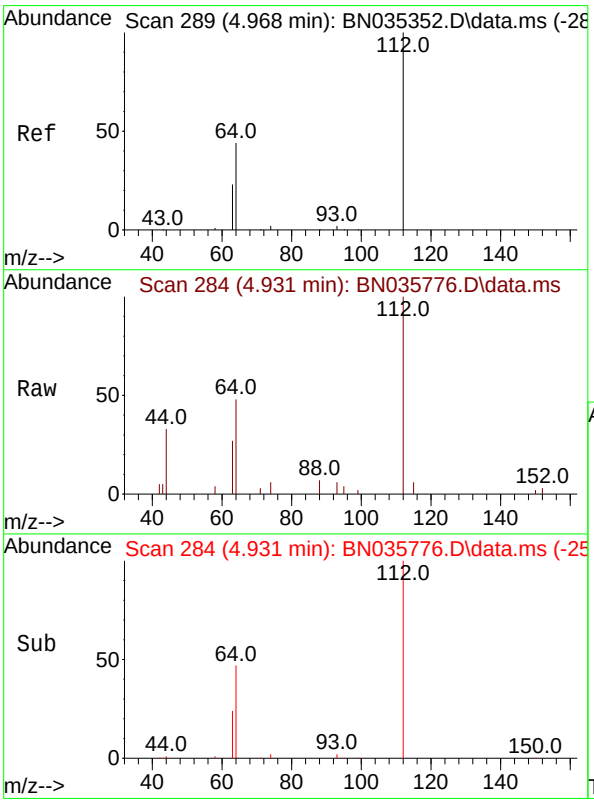
#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.278 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 1278

Ion	Ratio	Lower	Upper
42	100		
74	172.3	124.9	187.3
44	6.3	2.2	3.4#

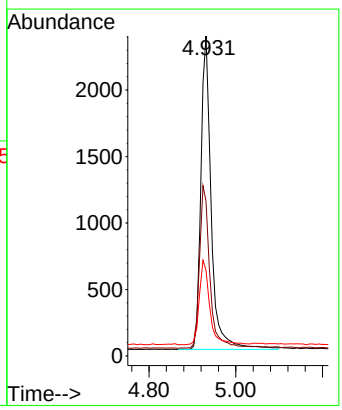


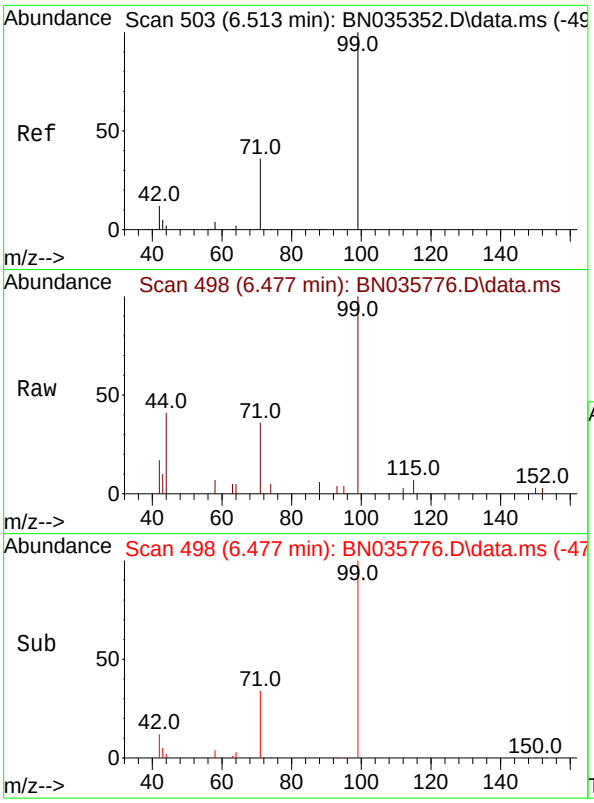


#4
2-Fluorophenol
Concen: 0.403 ng
RT: 4.931 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:112 Resp: 3917

Ion	Ratio	Lower	Upper
112	100		
64	52.3	39.8	59.8
63	27.2	21.0	31.6



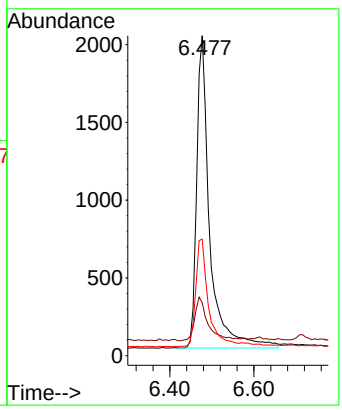


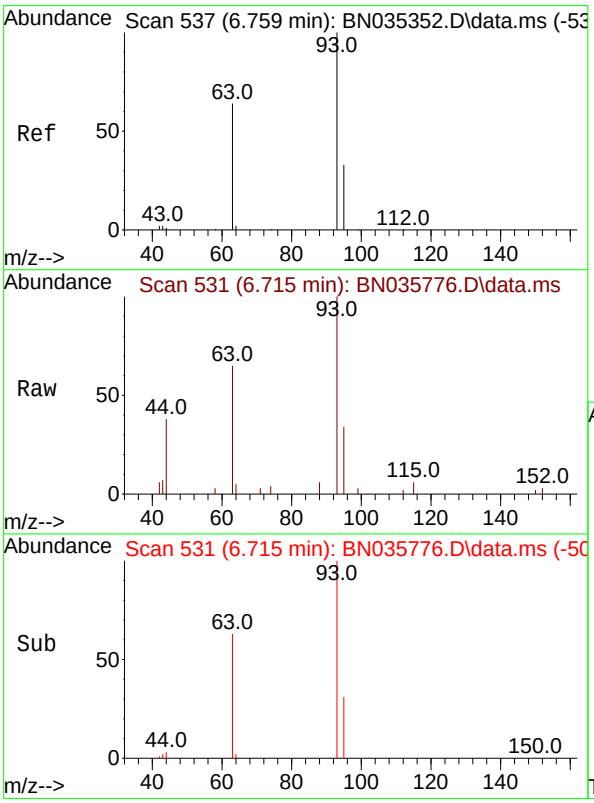
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 4314

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	33.7	29.3	43.9

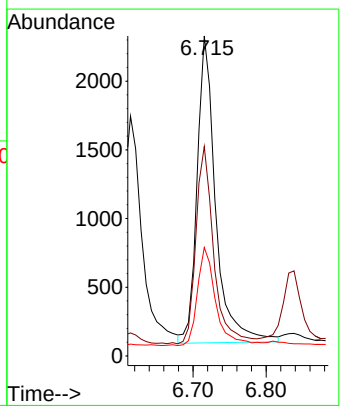


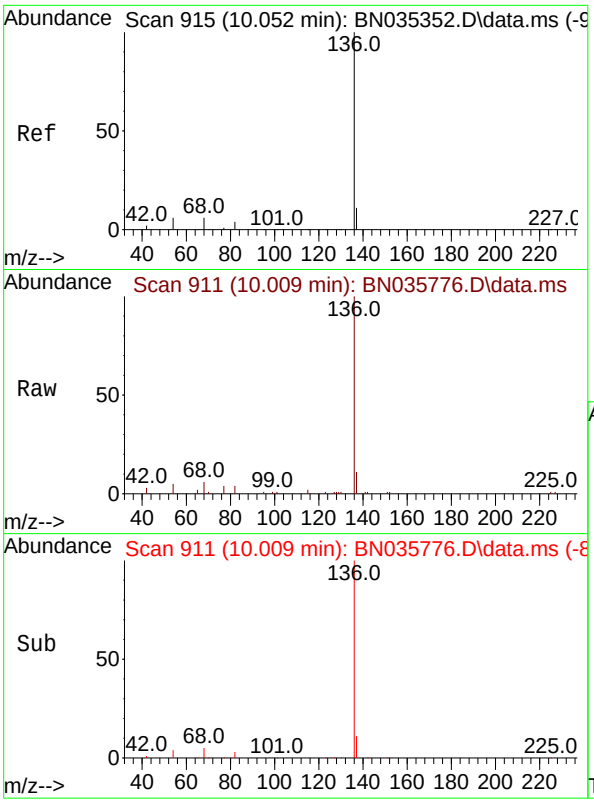


#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 6.715 min Scan# 531
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 93 Resp: 3946

Ion	Ratio	Lower	Upper
93	100		
63	61.5	50.4	75.6
95	31.7	25.7	38.5



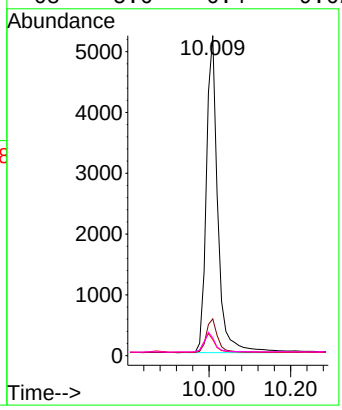


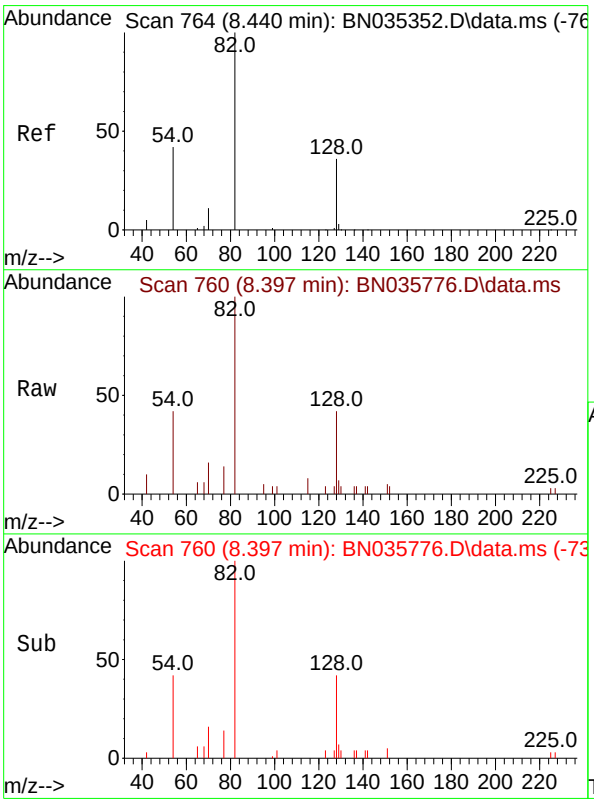
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 10099

Ion	Ratio	Lower	Upper
136	100		
137	11.5	10.2	15.2
54	5.0	6.1	9.1#
68	5.6	6.4	9.6#

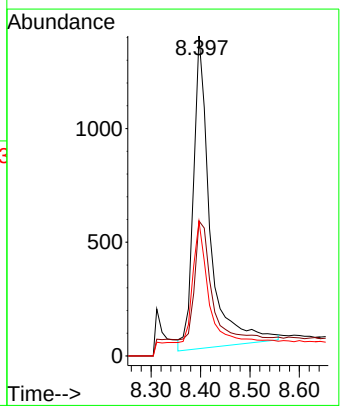


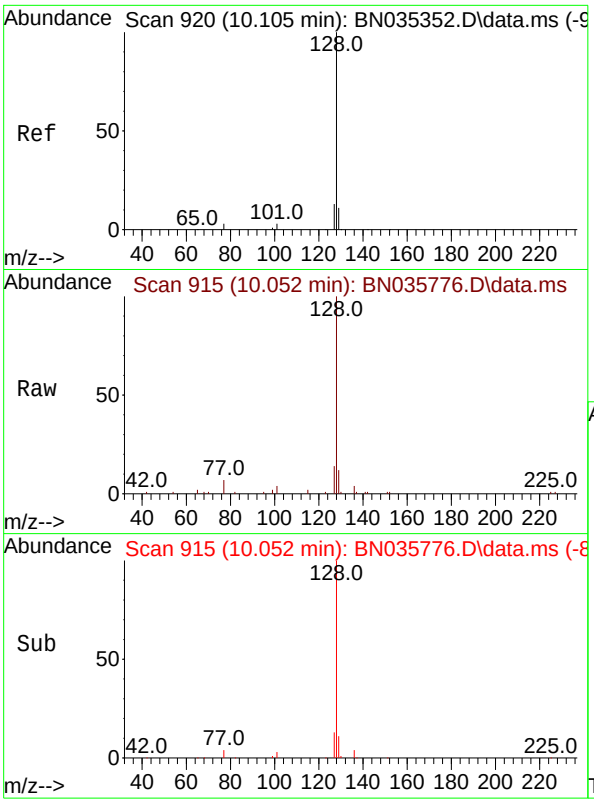


#8
Nitrobenzene-d5
Concen: 0.525 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion: 82 Resp: 3236

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.4	50.0
54	42.1	36.7	55.1



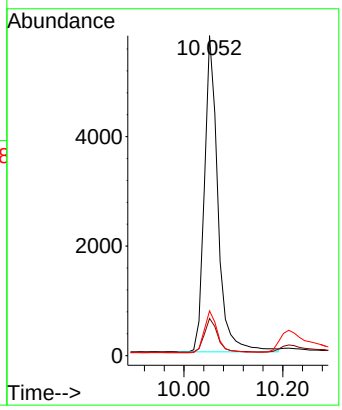


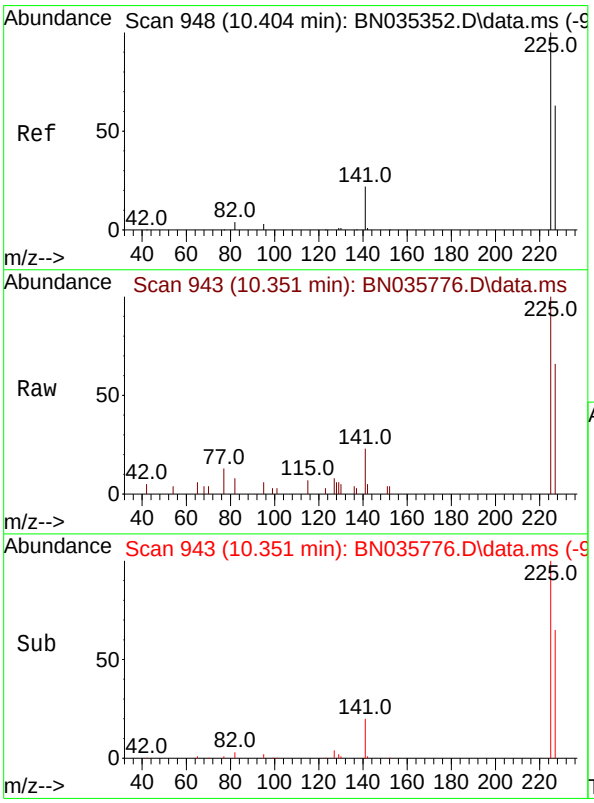
#9
Naphthalene
Concen: 0.410 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 10927

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.8	14.6
127	14.0	11.4	17.2

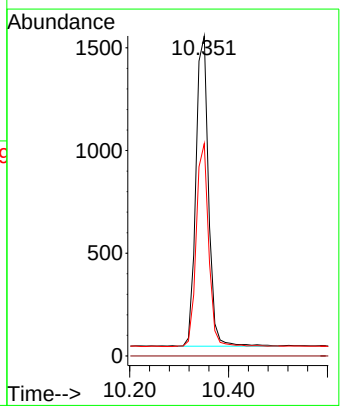


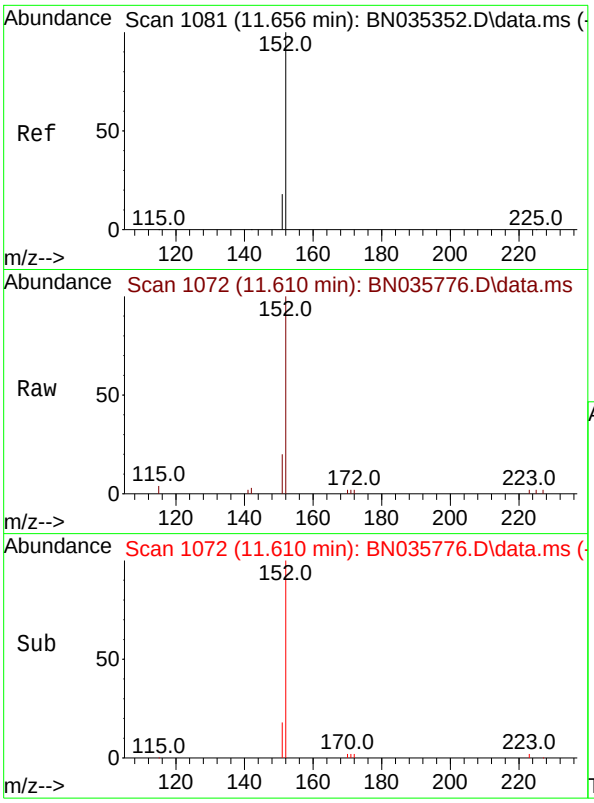


#10
Hexachlorobutadiene
Concen: 0.437 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:225 Resp: 2685

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	51.3	76.9



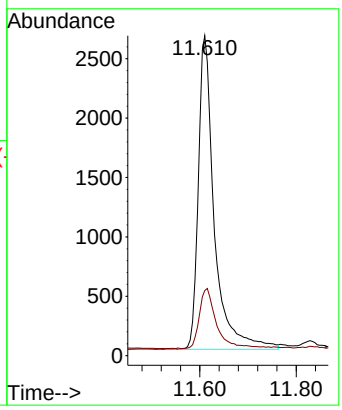


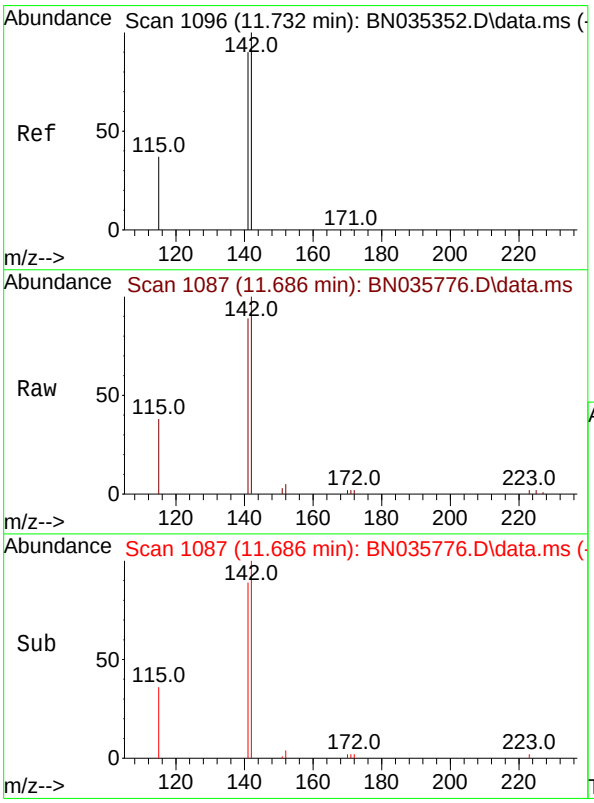
#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6074

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	25.0

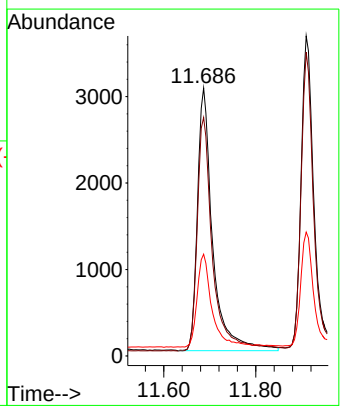


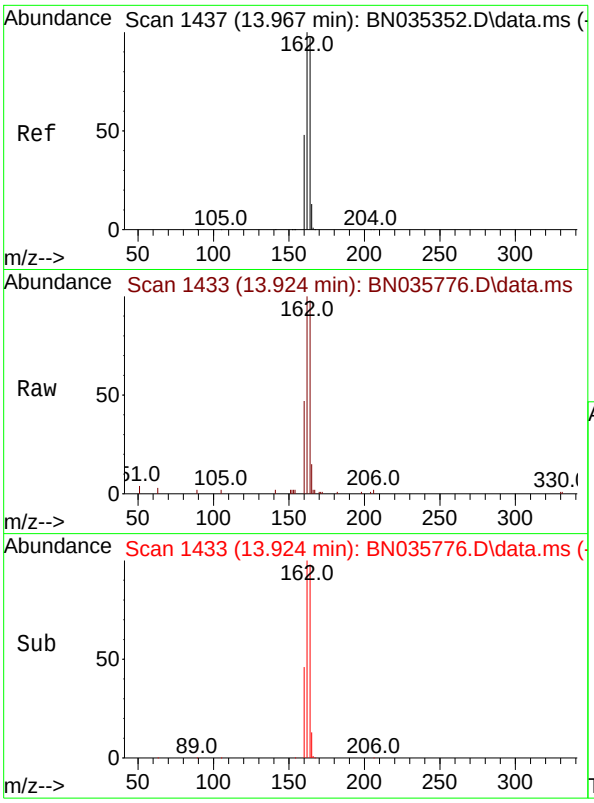


#12
2-Methylnaphthalene
Concen: 0.366 ng
RT: 11.686 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:142 Resp: 6976

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4
115	38.0	31.4	47.0



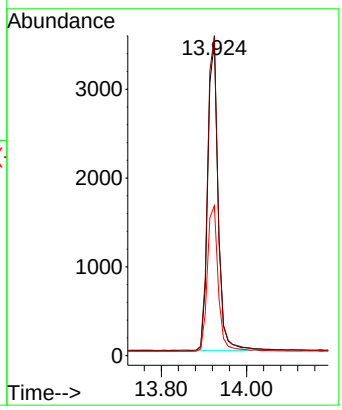


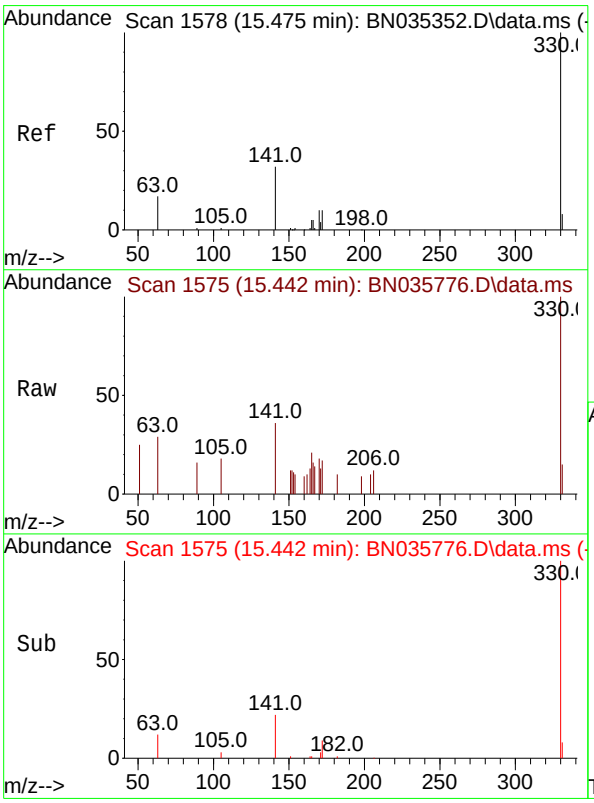
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 5893

Ion	Ratio	Lower	Upper
164	100		
162	101.9	82.2	123.2
160	47.7	40.1	60.1

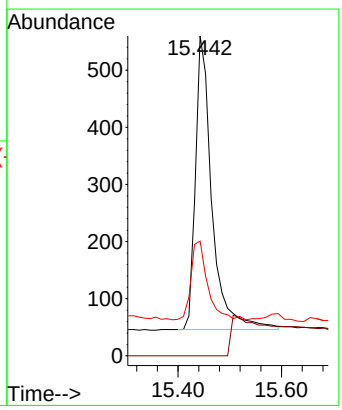


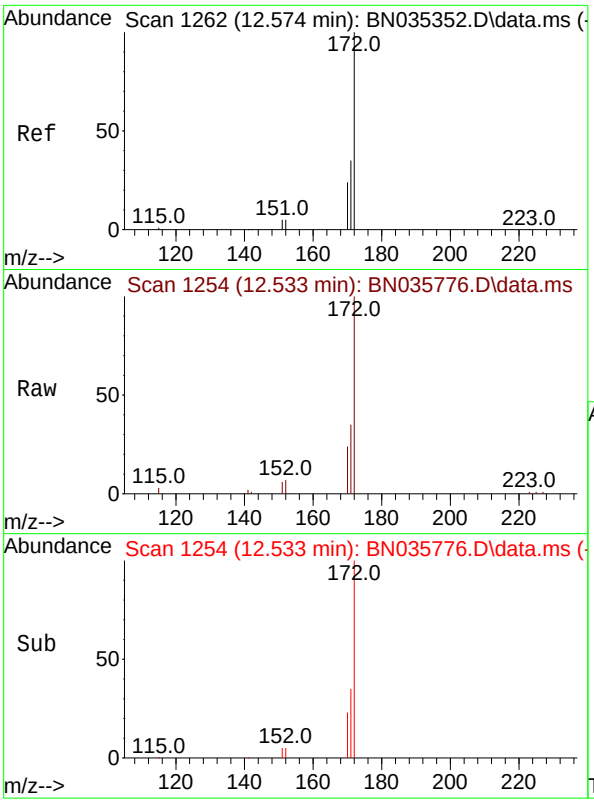


#14
2,4,6-Tribromophenol
Concen: 0.288 ng
RT: 15.442 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:330 Resp: 1206

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.3	26.6	40.0#



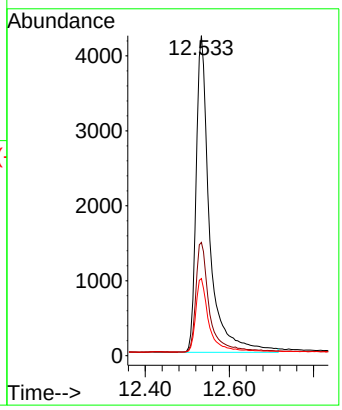


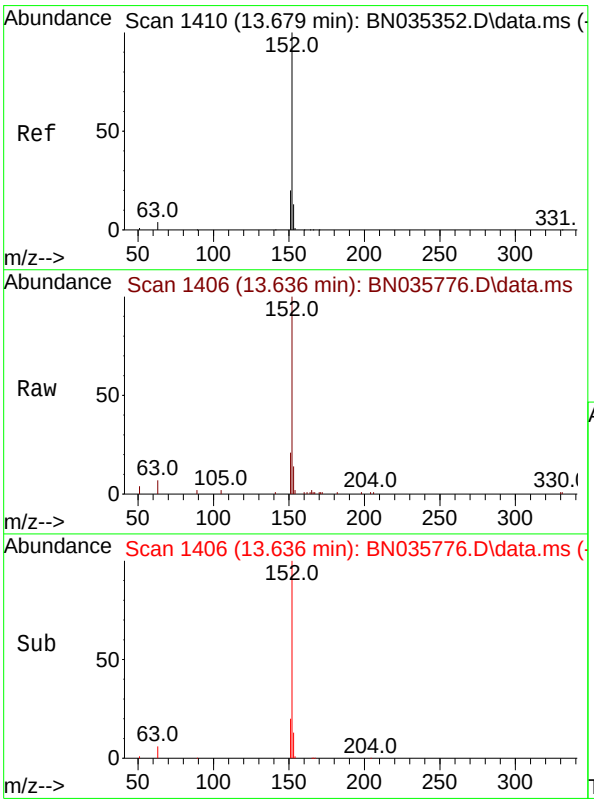
#15
2-Fluorobiphenyl
Concen: 0.424 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 9436

Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.0	43.4
170	24.1	19.8	29.8

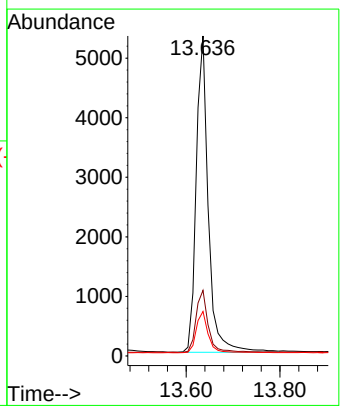


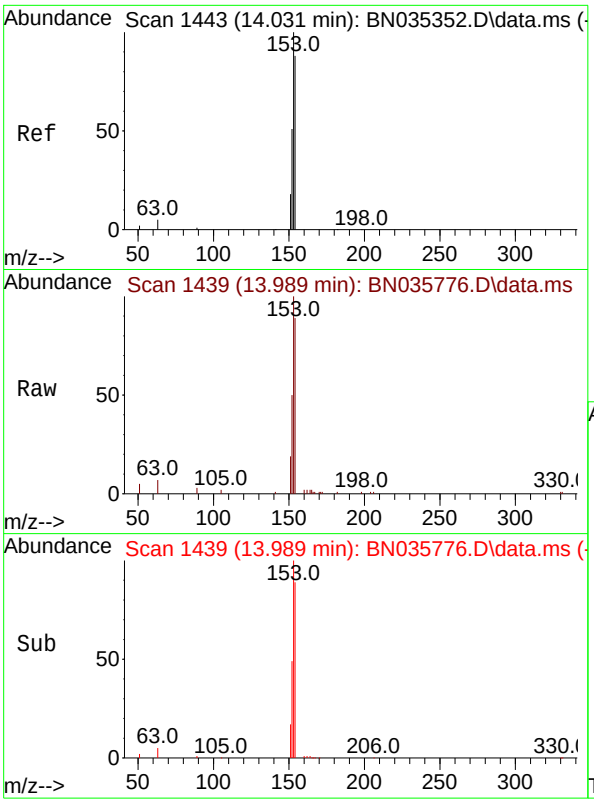


#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:152 Resp: 9517

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.1	10.4	15.6



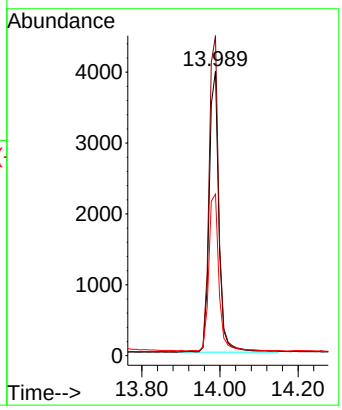


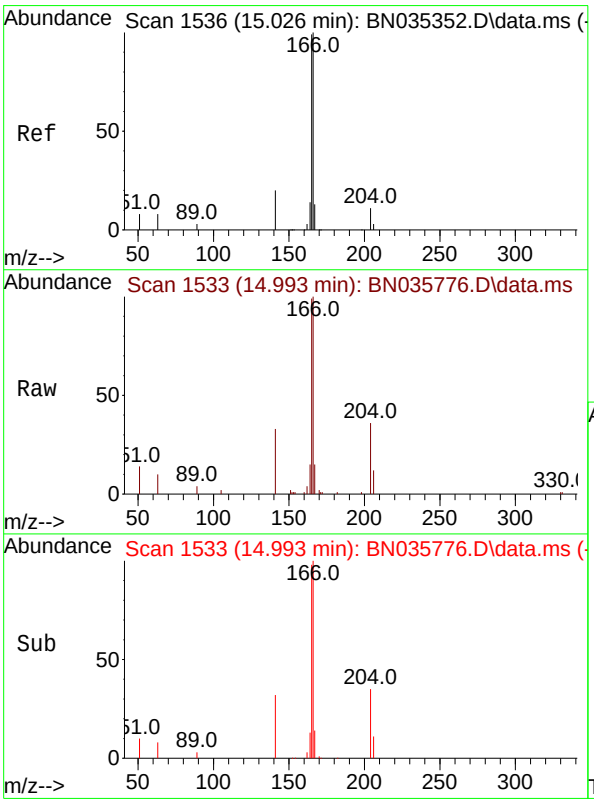
#17
Acenaphthene
Concen: 0.415 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 6826

Ion	Ratio	Lower	Upper
154	100		
153	113.5	92.6	139.0
152	58.5	49.0	73.6

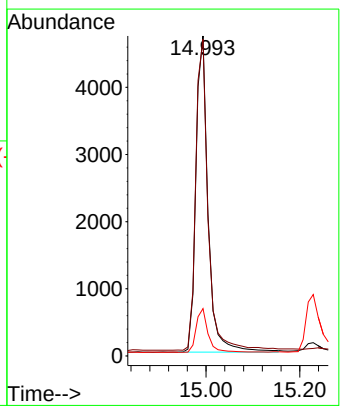


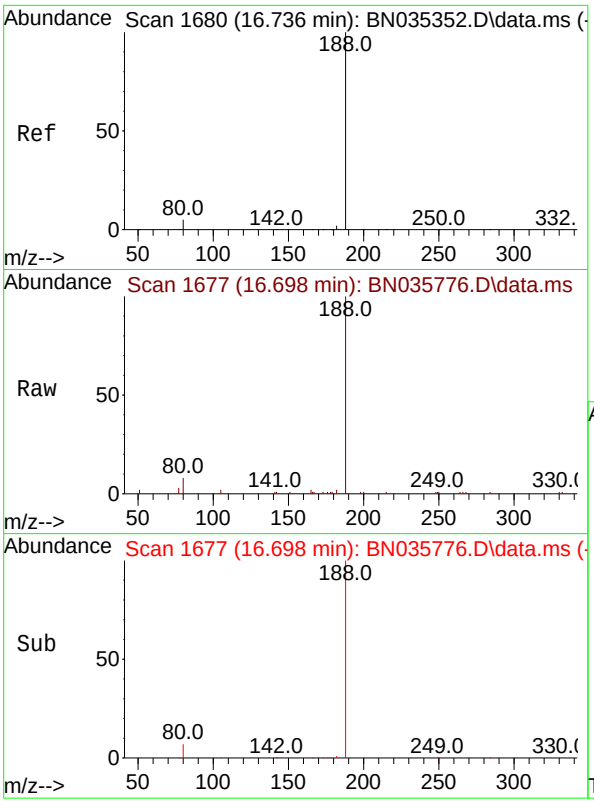


#18
Fluorene
Concen: 0.361 ng
RT: 14.993 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:166 Resp: 8480

Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	13.6	10.8	16.2



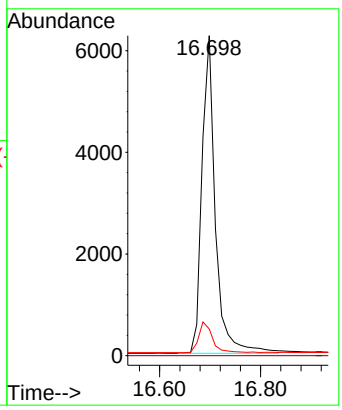


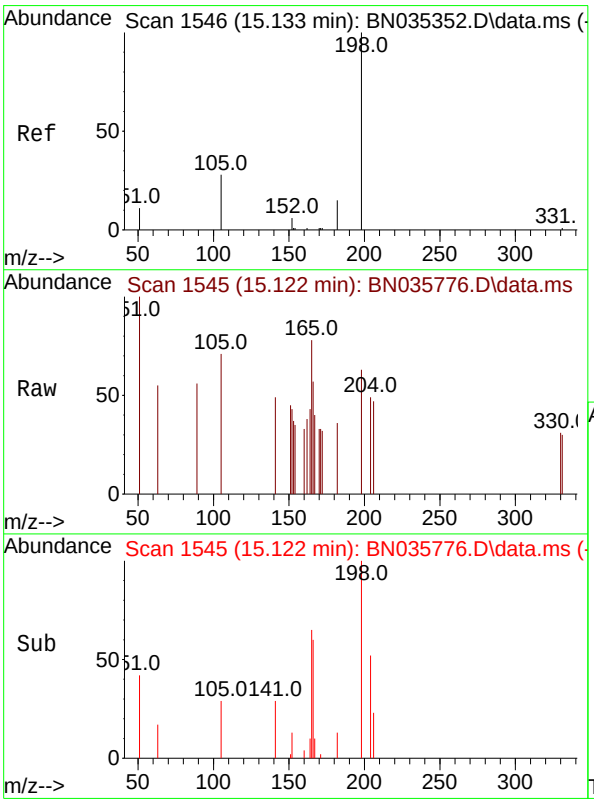
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 11548

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.4	4.6	6.8#

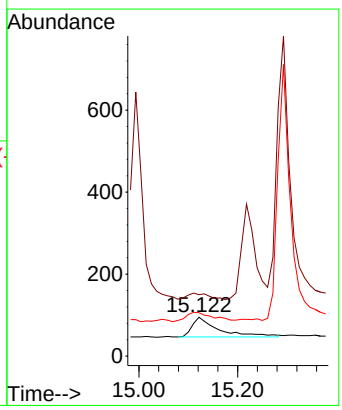


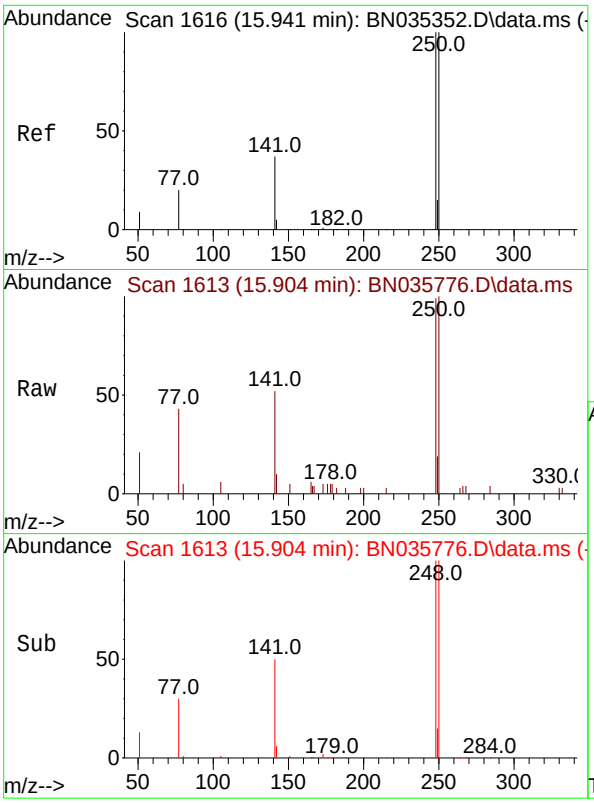


#20
4,6-Dinitro-2-methylphenol
Concen: 0.157 ng
RT: 15.122 min Scan# 1545
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:198 Resp: 178

Ion	Ratio	Lower	Upper
198	100		
51	157.9	46.5	69.7#
105	111.6	45.3	67.9#



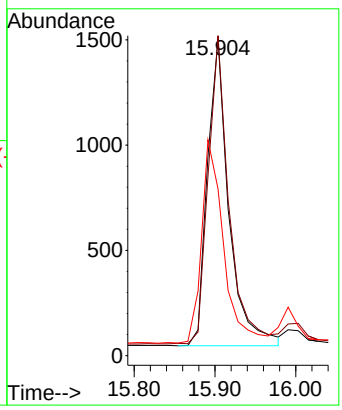


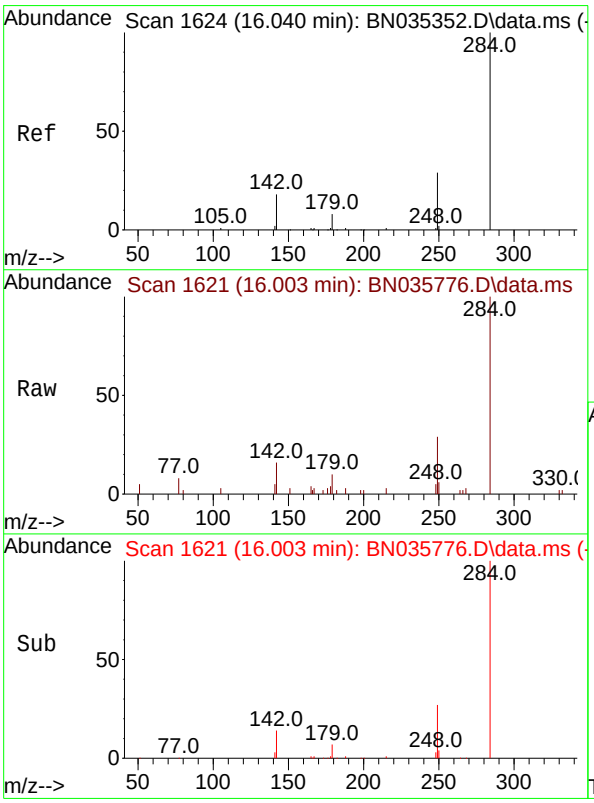
#21
4-Bromophenyl-phenylether
Concen: 0.398 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 2687

Ion	Ratio	Lower	Upper
248	100		
250	100.7	80.6	120.8
141	52.5	31.5	47.3#

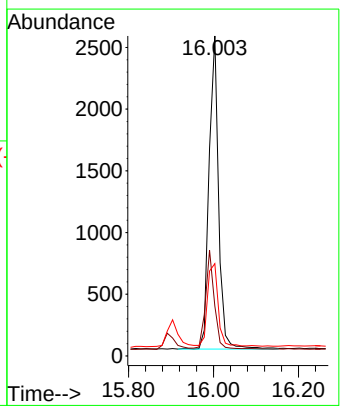


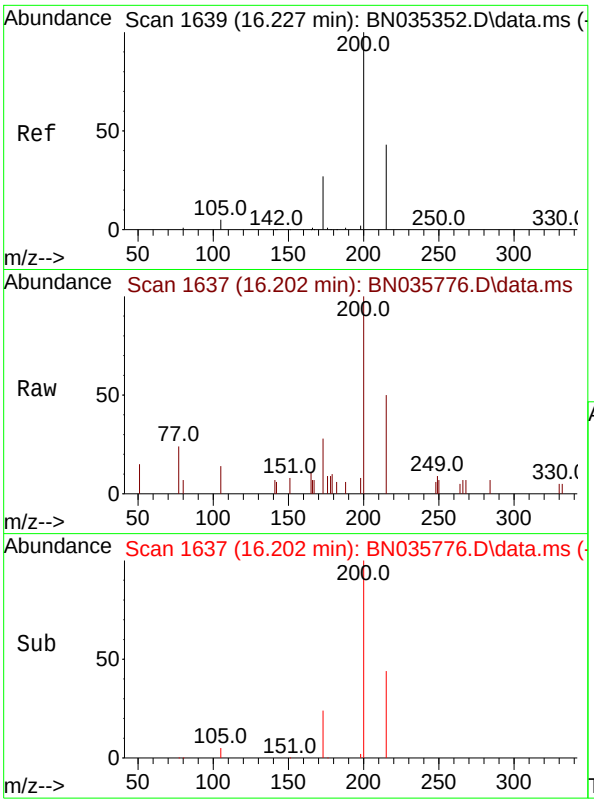


#22
Hexachlorobenzene
Concen: 0.497 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:284 Resp: 3943

Ion	Ratio	Lower	Upper
284	100		
142	29.0	26.7	40.1
249	29.3	24.6	36.8



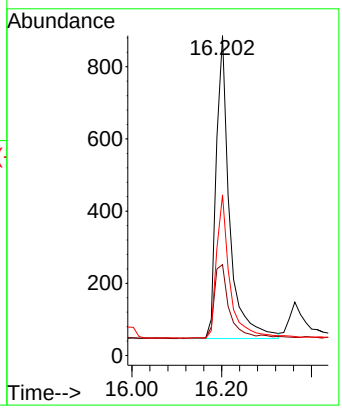


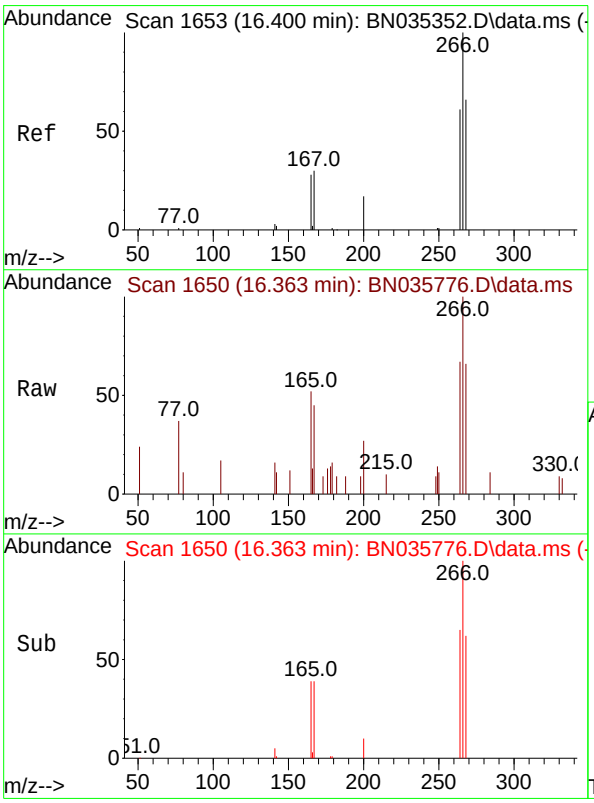
#23
Atrazine
Concen: 0.359 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1724

Ion	Ratio	Lower	Upper
200	100		
173	28.4	24.1	36.1
215	50.2	36.9	55.3

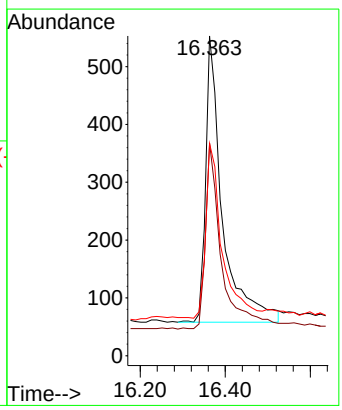


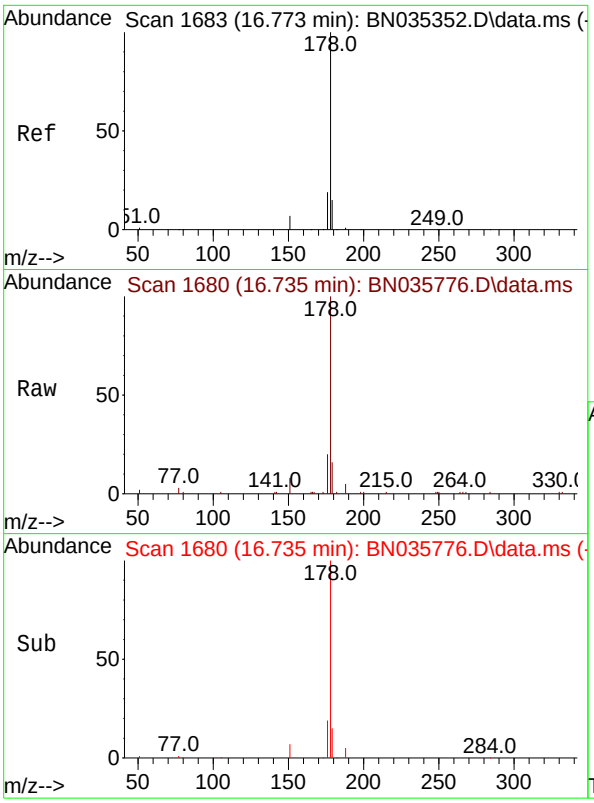


#24
Pentachlorophenol
Concen: 0.391 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:266 Resp: 1350

Ion	Ratio	Lower	Upper
266	100		
264	63.2	42.3	63.5
268	59.1	43.3	64.9



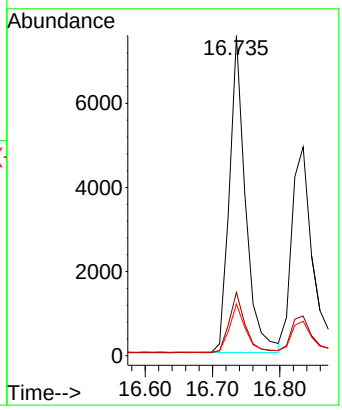


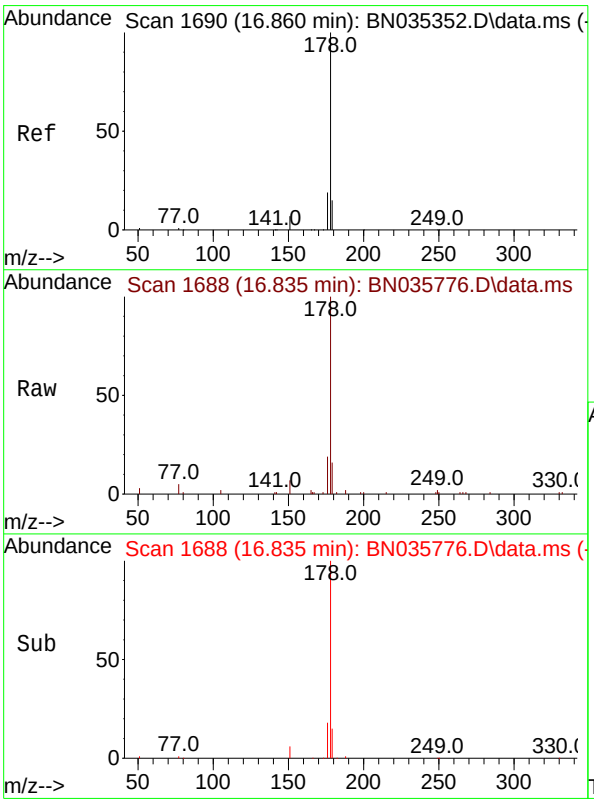
#25
Phenanthrene
Concen: 0.396 ng
RT: 16.735 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 12569

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.5	12.3	18.5

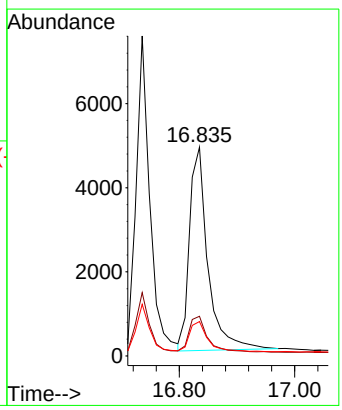


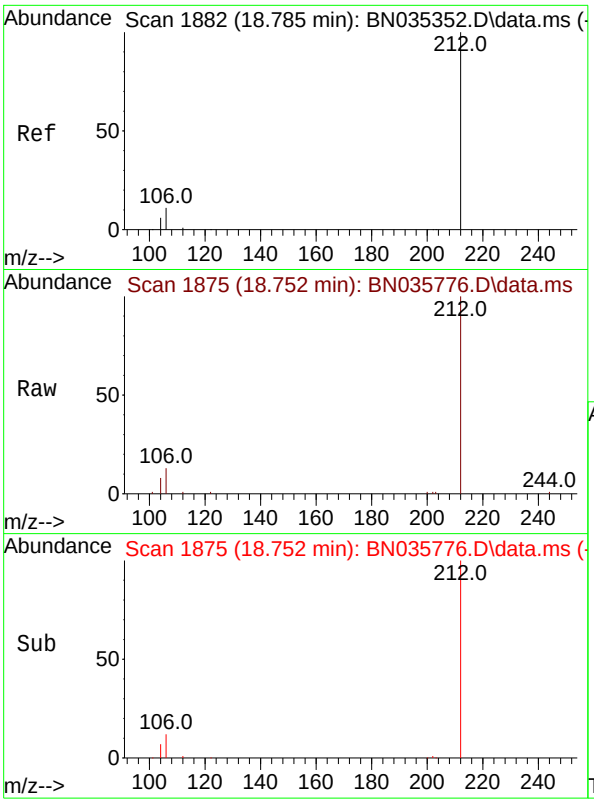


#26
Anthracene
Concen: 0.372 ng
RT: 16.835 min Scan# 1688
Delta R.T. -0.000 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:178 Resp: 10686

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.3	12.6	18.8



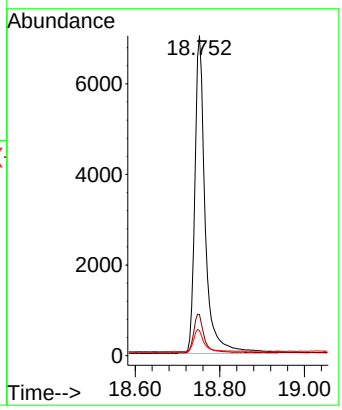


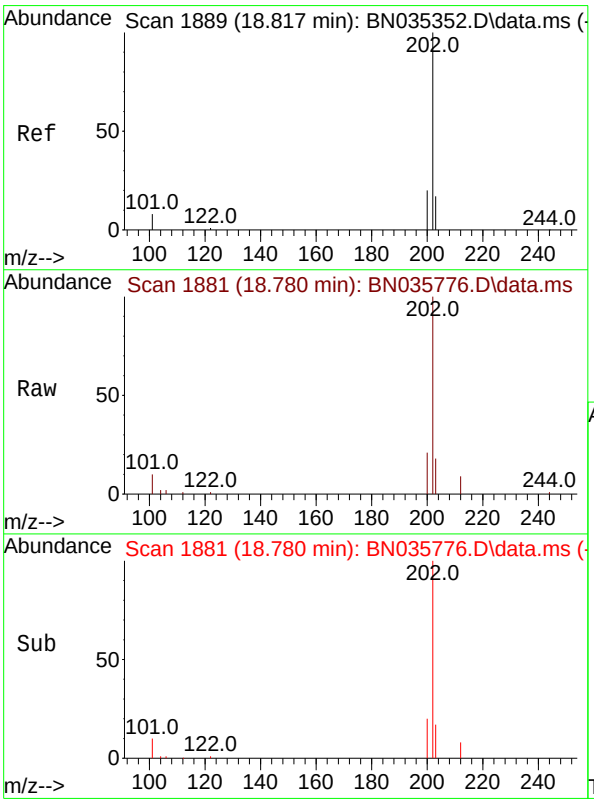
#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 11979

Ion	Ratio	Lower	Upper
212	100		
106	12.1	9.2	13.8
104	6.9	5.3	7.9

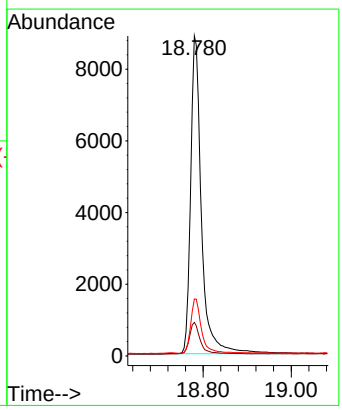


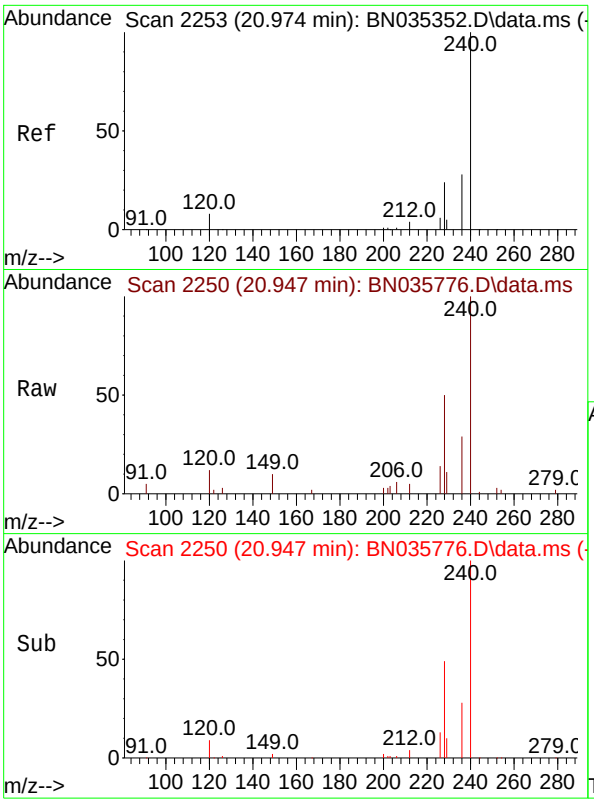


#28
Fluoranthene
Concen: 0.353 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.010 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15101

Ion	Ratio	Lower	Upper
202	100		
101	10.1	7.4	11.0
203	17.2	13.7	20.5



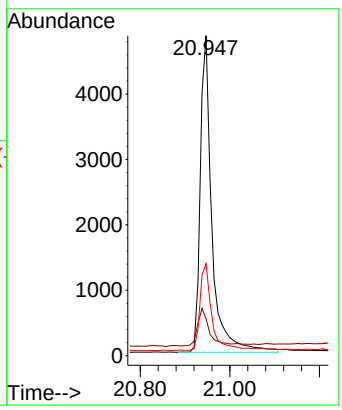


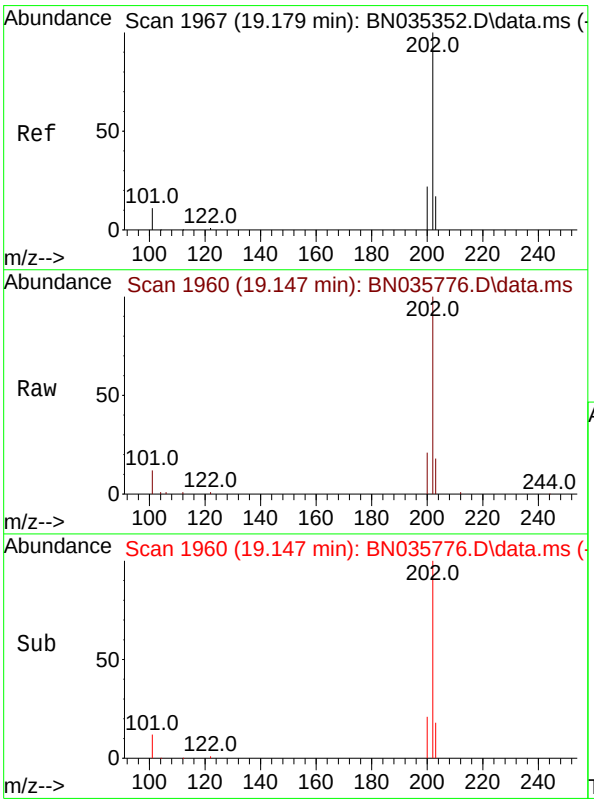
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 8770

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.9	11.9
236	28.8	22.9	34.3

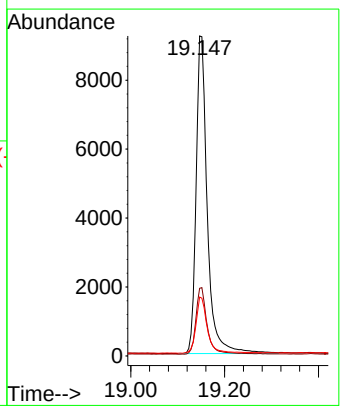


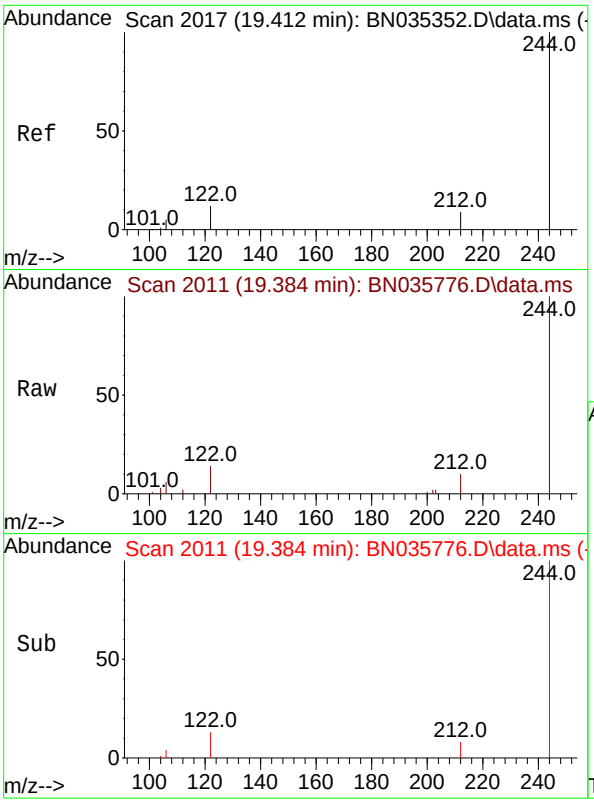


#30
Pyrene
Concen: 0.472 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:202 Resp: 15291

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.9	14.3	21.5



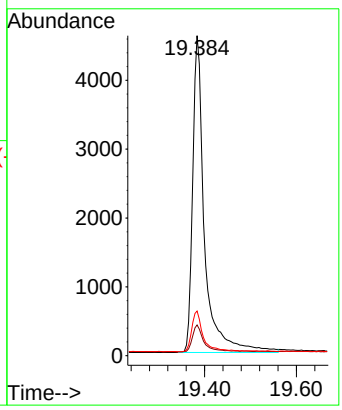


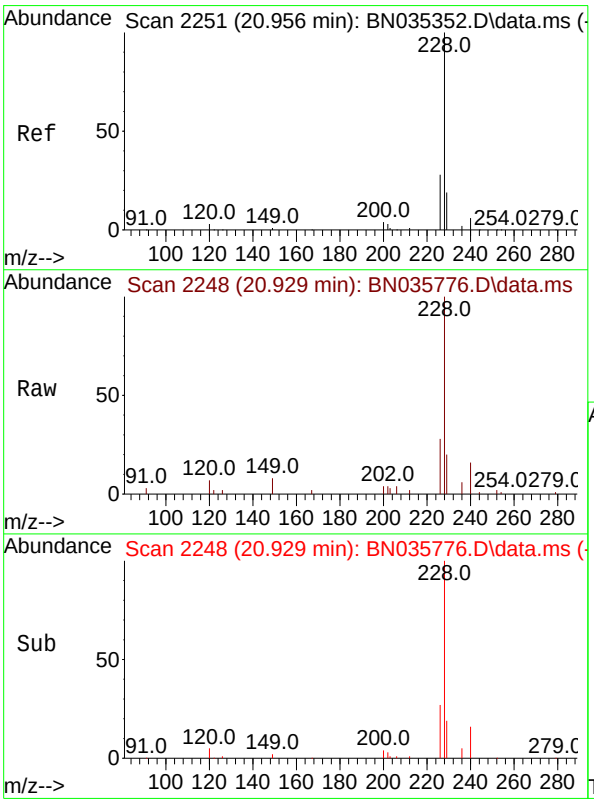
#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 8267

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	13.9	10.3	15.5

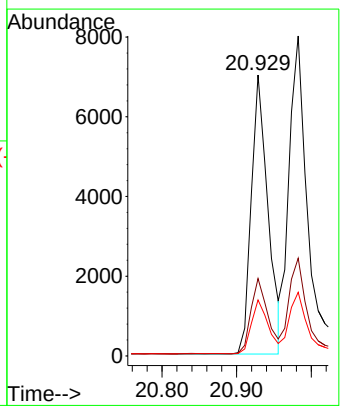


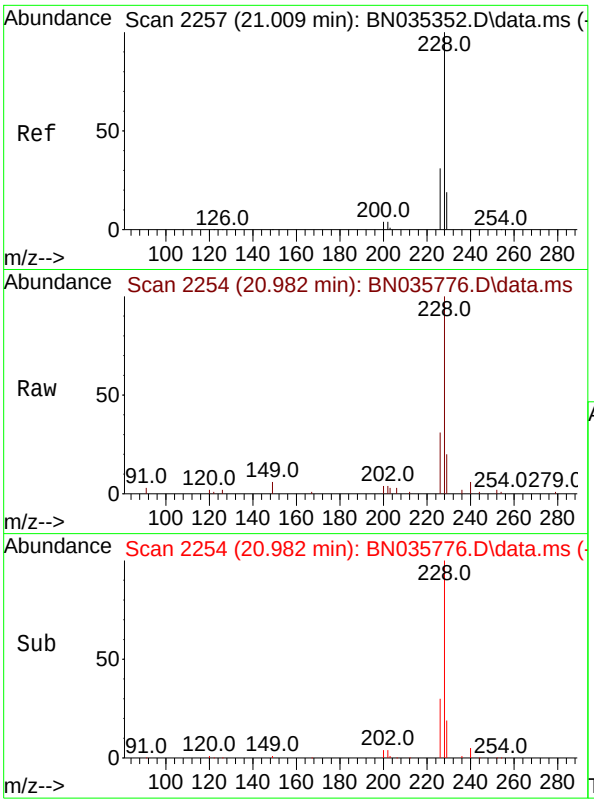


#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:228 Resp: 10904

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.5	33.7
229	19.9	15.8	23.8



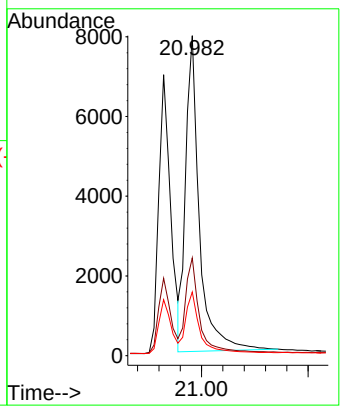


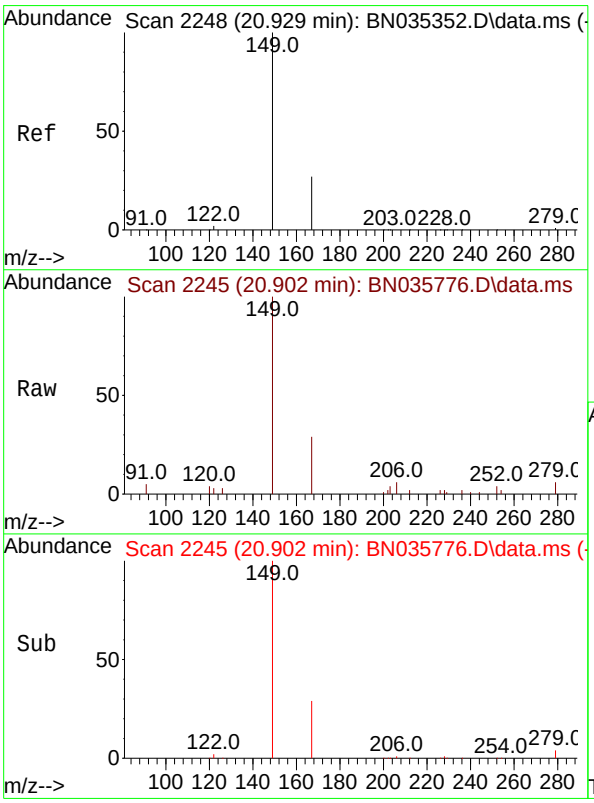
#33
Chrysene
Concen: 0.447 ng
RT: 20.982 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 14126

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	19.9	15.9	23.9

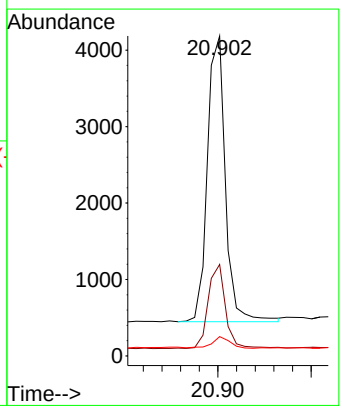


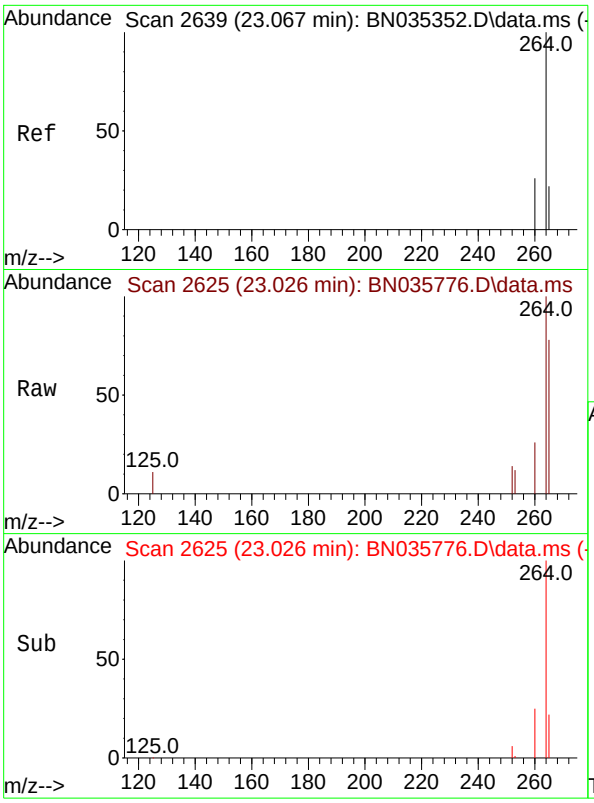


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.412 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:149 Resp: 4992

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.4
279	4.0	2.7	4.1



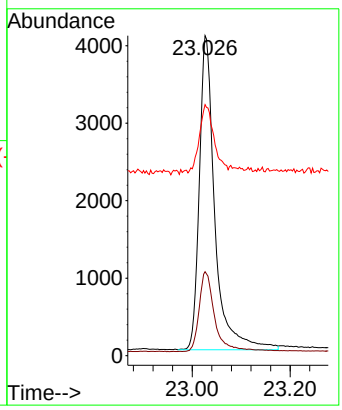


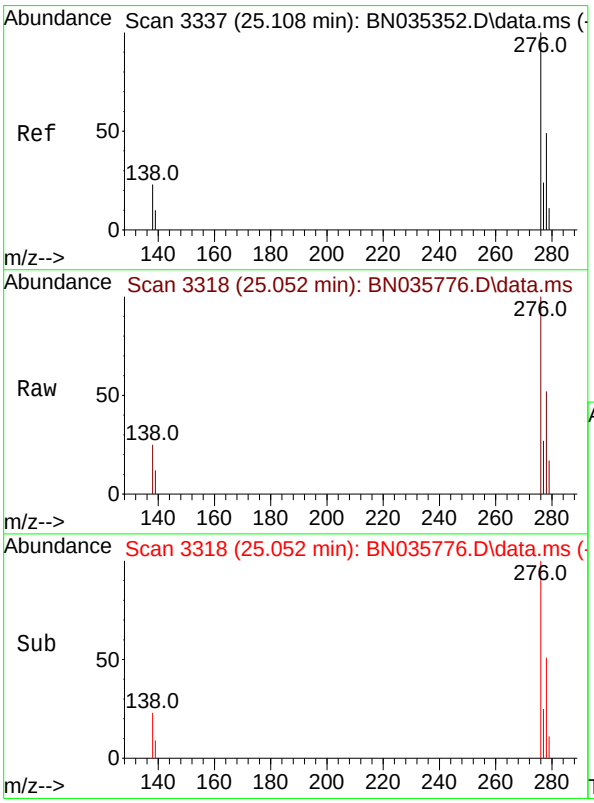
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 8918

Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.4	32.2
265	78.5	40.2	60.4#

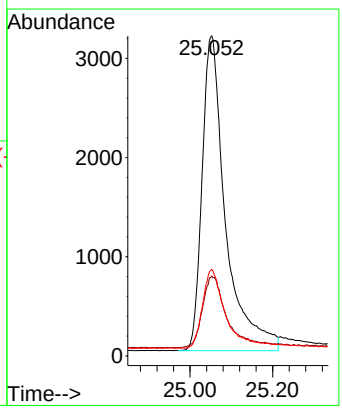


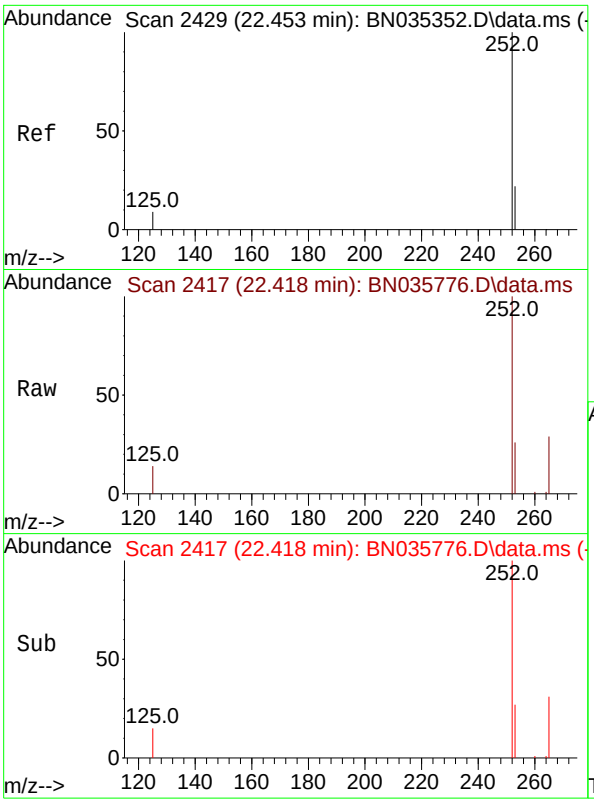


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.359 ng
RT: 25.052 min Scan# 3318
Delta R.T. -0.015 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:276 Resp: 12530

Ion	Ratio	Lower	Upper
276	100		
138	23.2	19.4	29.0
277	24.2	19.8	29.6



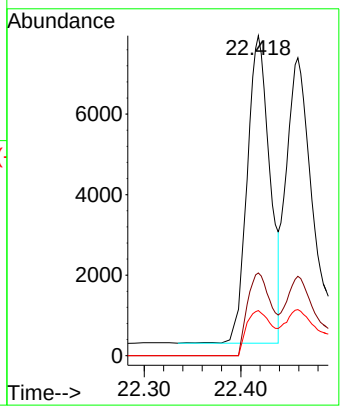


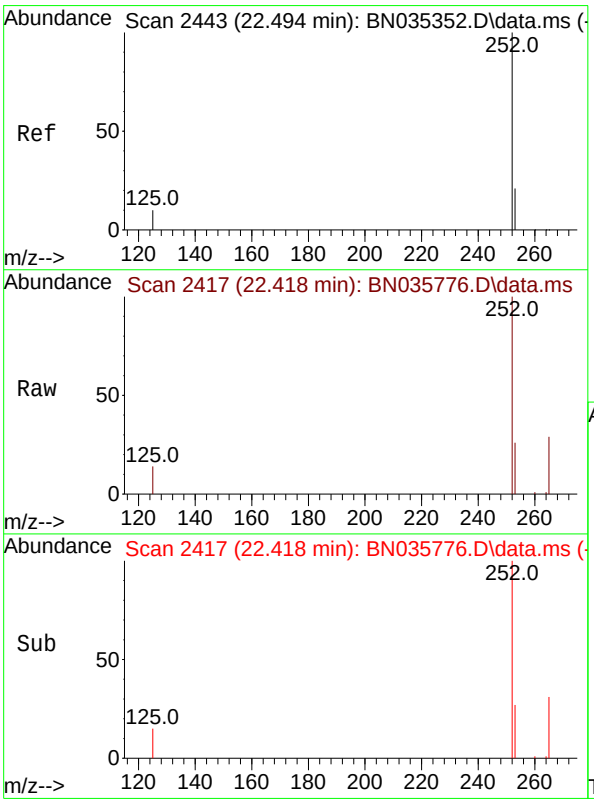
#37
Benzo(b)fluoranthene
Concen: 0.646 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 21074

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.6	29.4
125	14.1	9.6	14.4

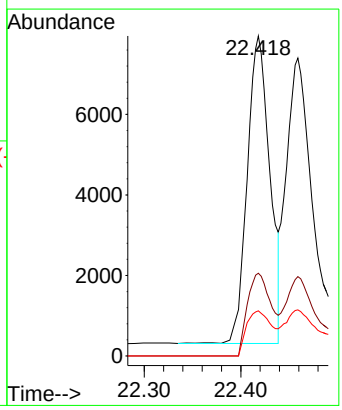


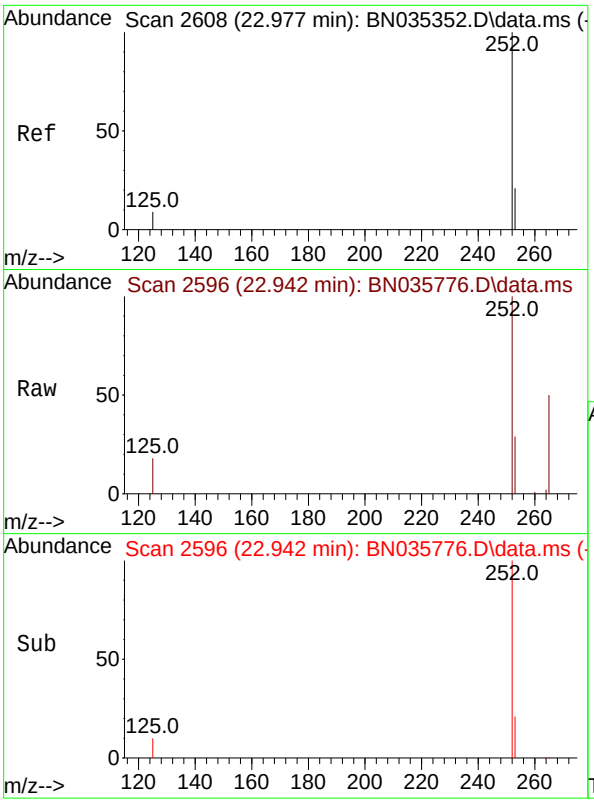


#38
Benzo(k)fluoranthene
Concen: 0.656 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:252 Resp: 21074

Ion	Ratio	Lower	Upper
252	100		
253	25.9	19.5	29.3
125	14.1	10.2	15.4



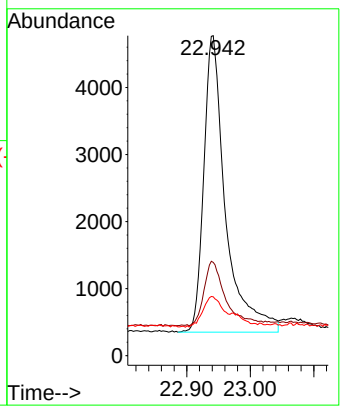


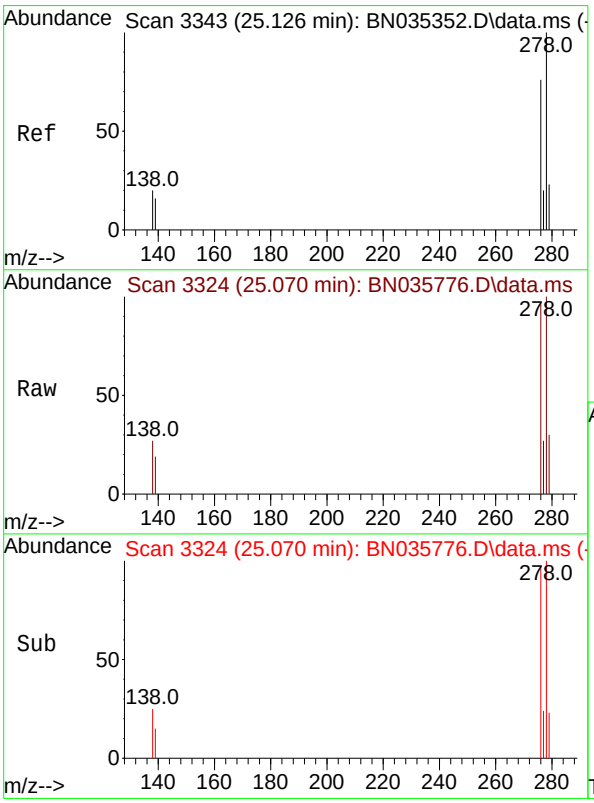
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 10518

Ion	Ratio	Lower	Upper
252	100		
253	29.2	20.2	30.4
125	18.4	10.9	16.3#

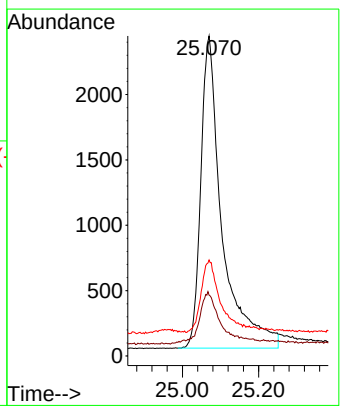


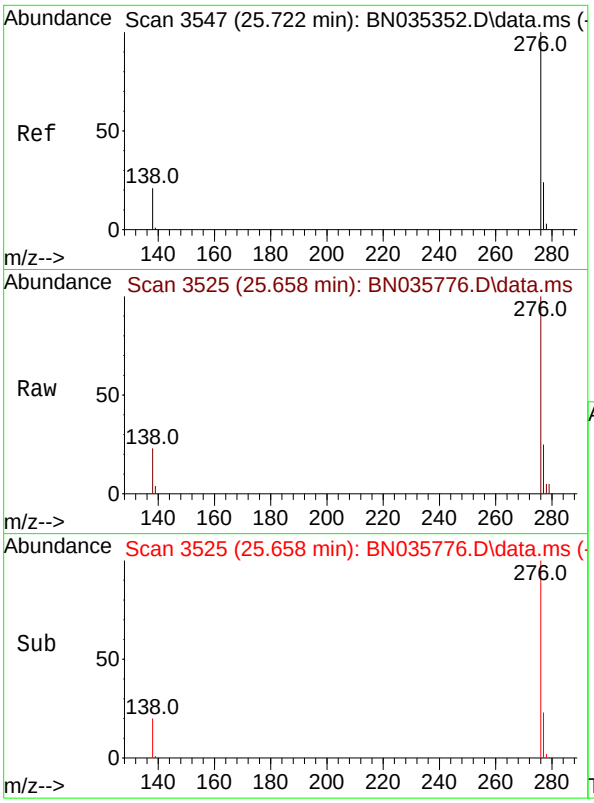


#40
Dibenzo(a,h)anthracene
Concen: 0.337 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Tgt Ion:278 Resp: 9258

Ion	Ratio	Lower	Upper
278	100		
139	19.0	14.2	21.4
279	30.0	20.5	30.7



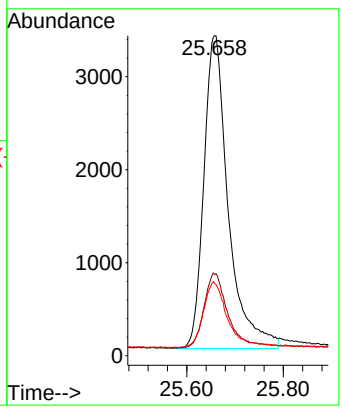


#41
Benzo(g,h,i)perylene
Concen: 0.412 ng
RT: 25.658 min Scan# 3
Delta R.T. -0.021 min
Lab File: BN035776.D
Acq: 23 Dec 2024 10:22

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 11833

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.9	29.9
138	22.6	17.8	26.8



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : 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	3452	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	8948	0.400	ng	#-0.01
13) Acenaphthene-d10	13.924	164	5551	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	10343	0.400	ng	0.00
29) Chrysene-d12	20.947	240	8364	0.400	ng	0.00
35) Perylene-d12	23.032	264	8390	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	1274	0.147	ng	0.00
5) Phenol-d6	6.477	99	870	0.084	ng	-0.01
8) Nitrobenzene-d5	8.397	82	2527	0.462	ng	-0.01
11) 2-Methylnaphthalene-d10	11.605	152	5390	0.385	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	819	0.208	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	8168	0.389	ng	-0.02
27) Fluoranthene-d10	18.752	212	11895	0.406	ng	0.00
31) Terphenyl-d14	19.379	244	9273	0.562	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	3613	1.095	ng	99
6) bis(2-Chloroethyl)ether	6.622	93	1088	0.125	ng	# 31
34) Bis(2-ethylhexyl)phtha...	20.902	149	1156	0.100	ng	# 99

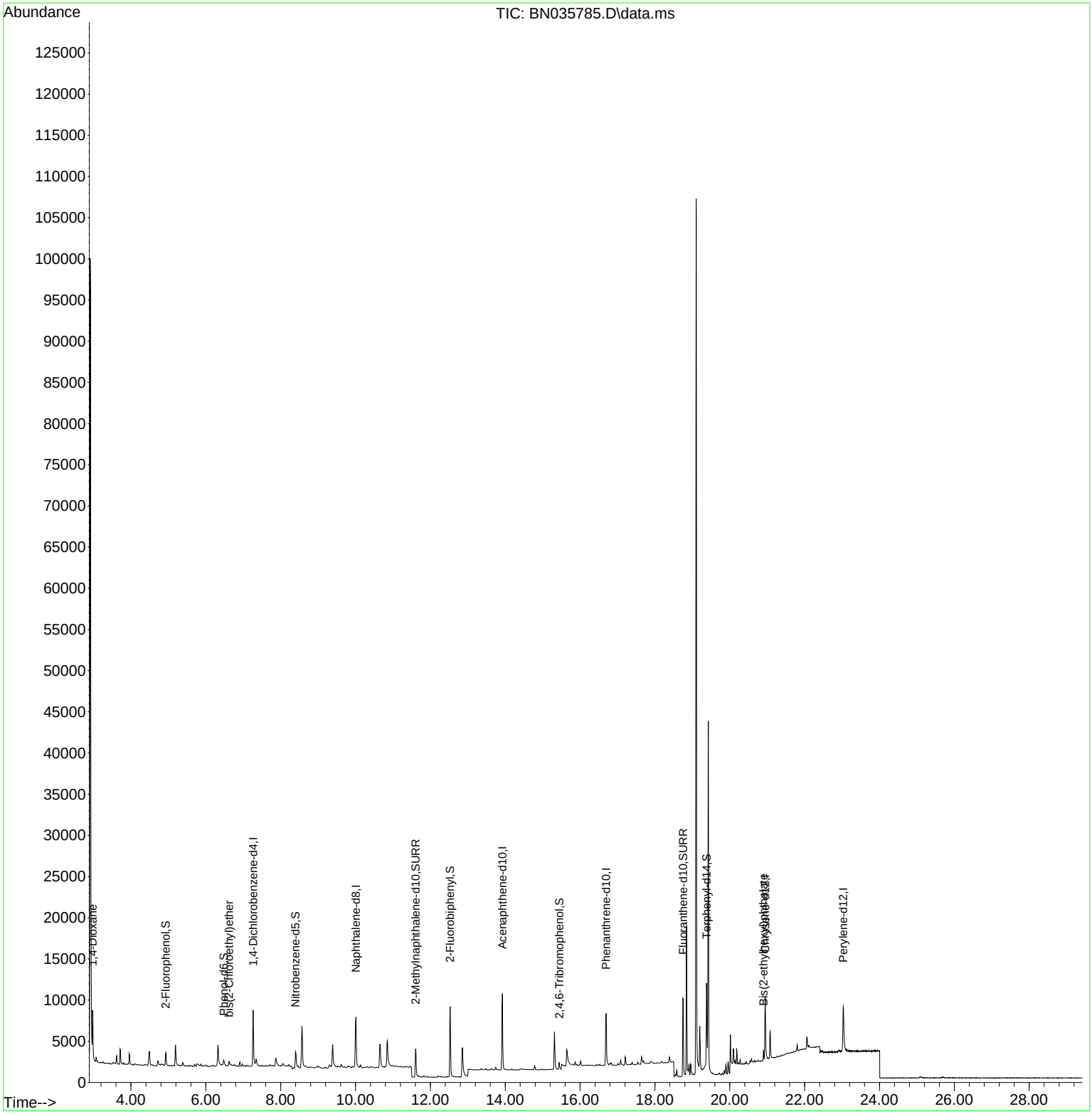
(#) = qualifier out of range (m) = manual integration (+) = signals summed

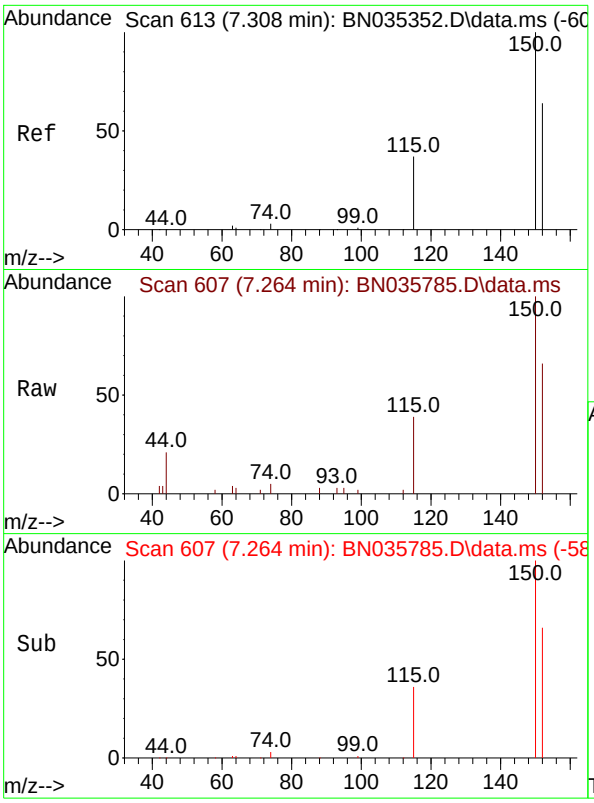
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035785.D
Acq On : 23 Dec 2024 15:41
Operator : RC/JU
Sample : P5314-02
Misc :
ALS Vial : 67 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Quant Time: Dec 23 16:19:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 19 23:06:19 2024
Response via : Initial Calibration



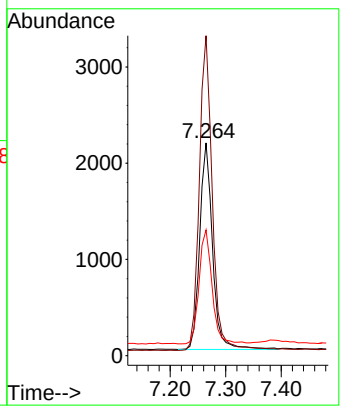


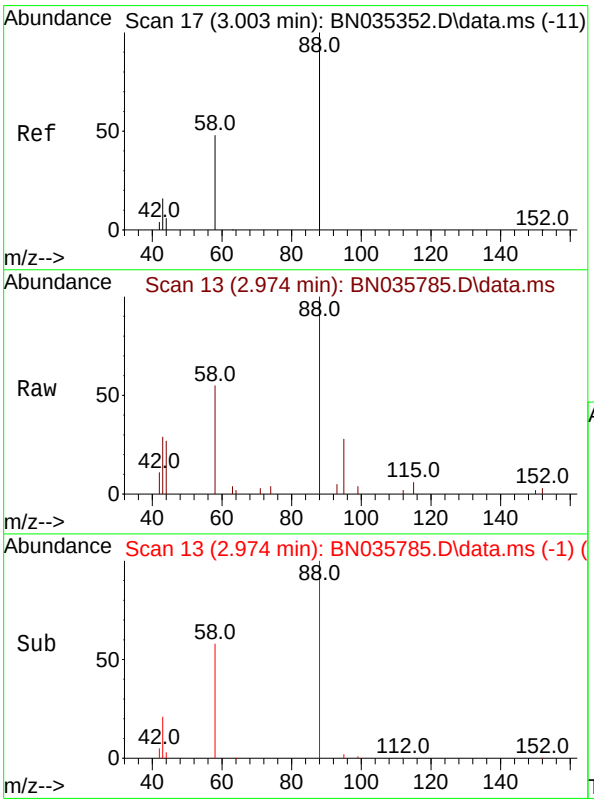
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:152 Resp: 3452

Ion	Ratio	Lower	Upper
152	100		
150	150.4	124.0	186.0
115	59.1	49.6	74.4

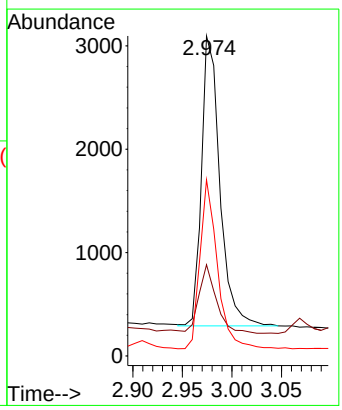


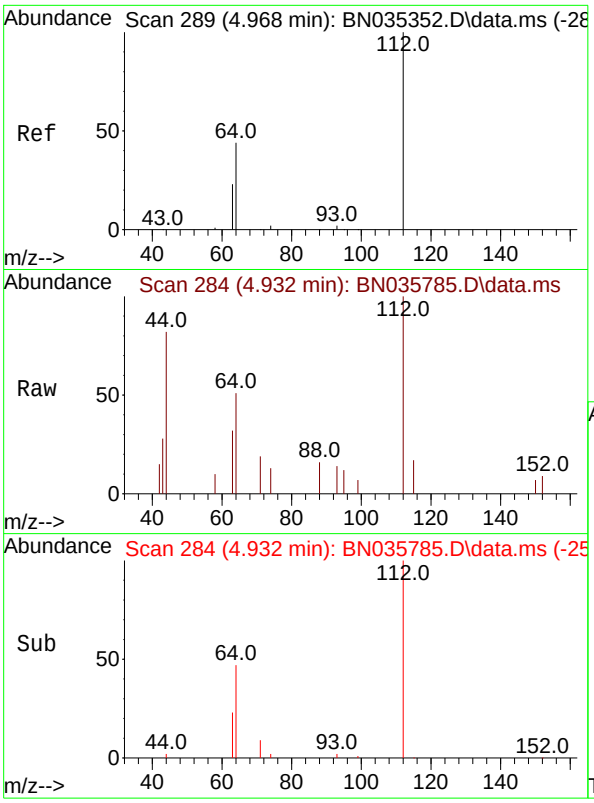


#2
1,4-Dioxane
Concen: 1.095 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 88 Resp: 3613

Ion	Ratio	Lower	Upper
88	100		
43	22.7	17.2	25.8
58	55.4	44.5	66.7



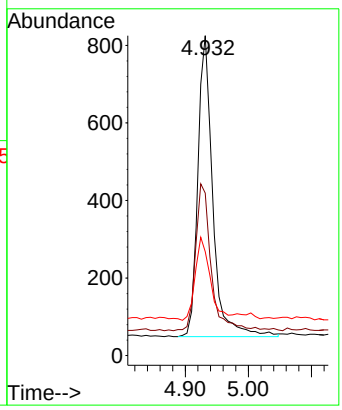


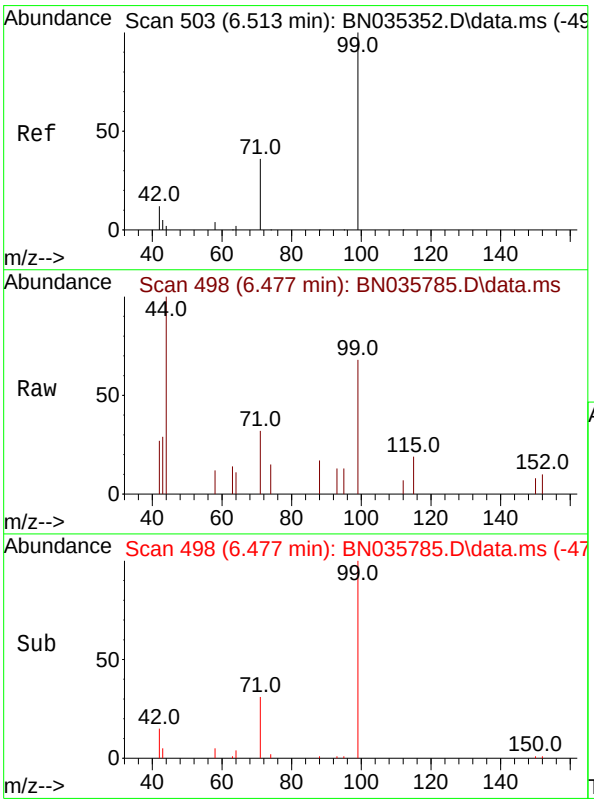
#4
2-Fluorophenol
Concen: 0.147 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:112 Resp: 1274

Ion	Ratio	Lower	Upper
112	100		
64	51.5	39.8	59.8
63	27.9	21.0	31.6

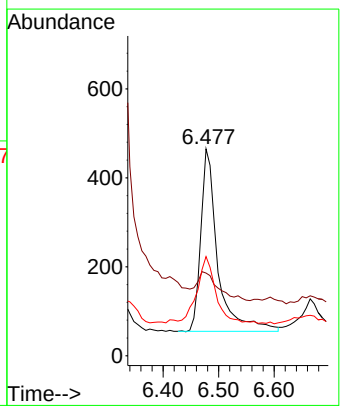


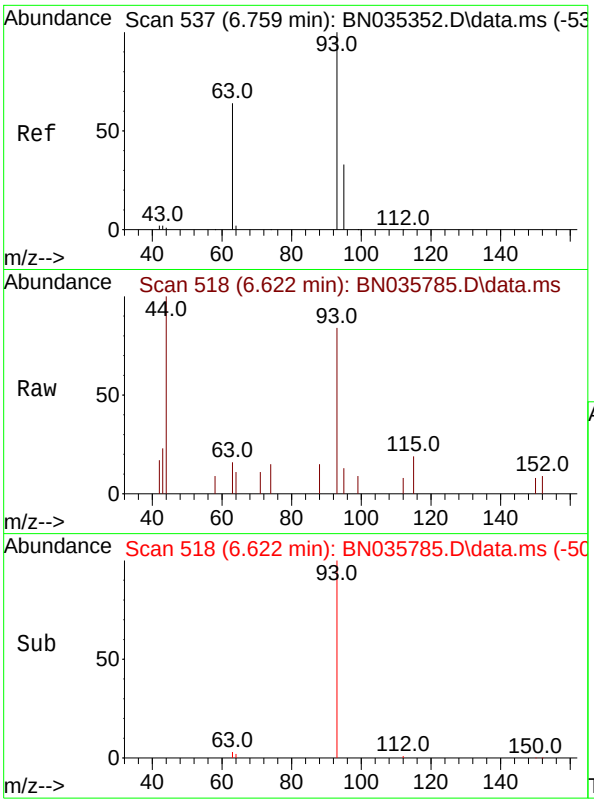


#5
Phenol-d6
Concen: 0.084 ng
RT: 6.477 min Scan# 498
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion: 99 Resp: 870

Ion	Ratio	Lower	Upper
99	100		
42	19.7	11.4	17.2#
71	41.5	29.3	43.9



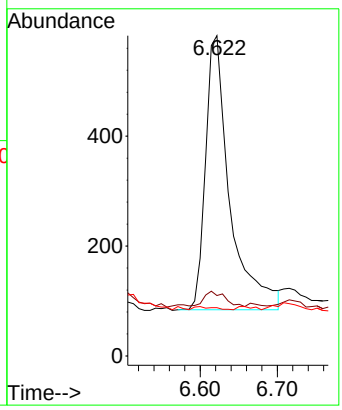


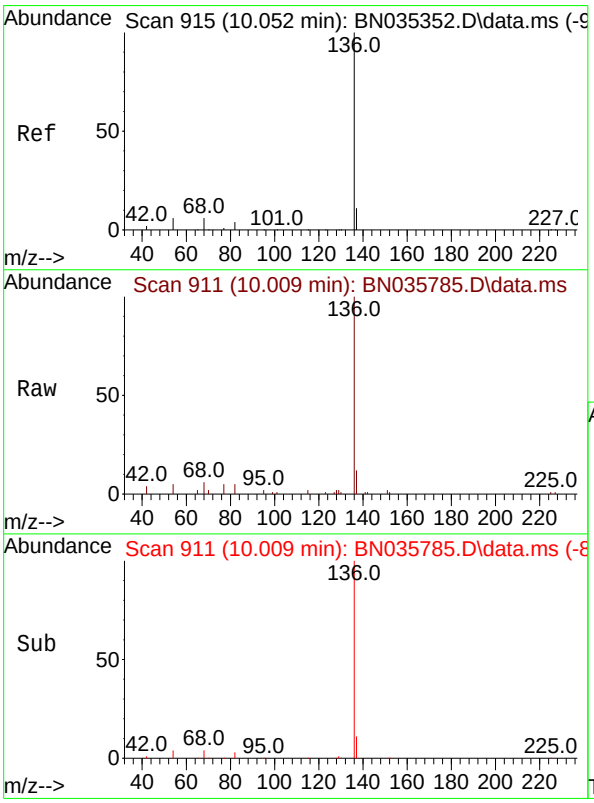
#6
bis(2-Chloroethyl)ether
Concen: 0.125 ng
RT: 6.622 min Scan# 5
Delta R.T. -0.108 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion: 93 Resp: 1088

Ion	Ratio	Lower	Upper
93	100		
63	4.8	50.4	75.6#
95	0.0	25.7	38.5#

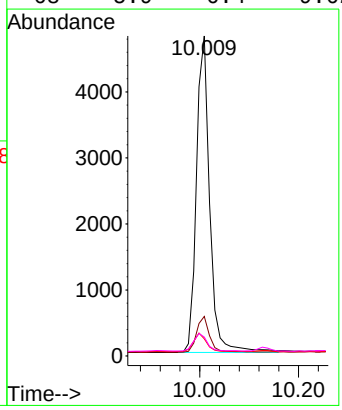


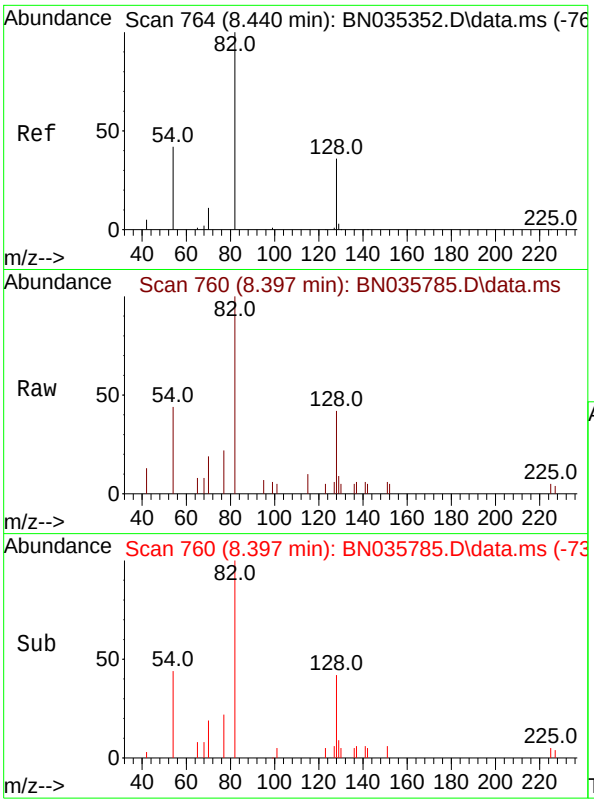


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:136 Resp: 8948

Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.2	15.2
54	5.4	6.1	9.1#
68	5.9	6.4	9.6#



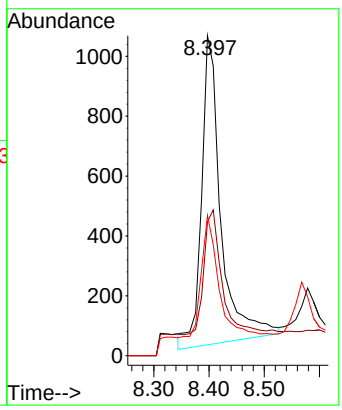


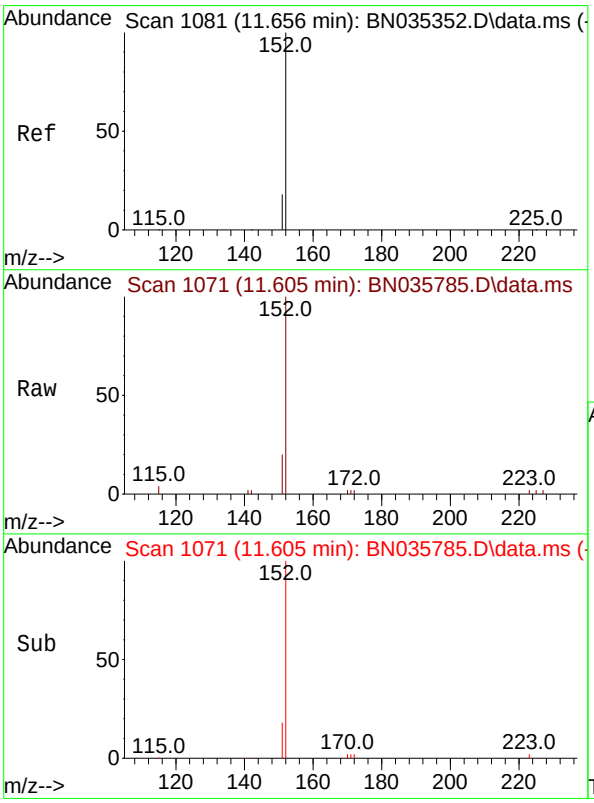
#8
Nitrobenzene-d5
Concen: 0.462 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion: 82 Resp: 2527

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	43.9	36.7	55.1

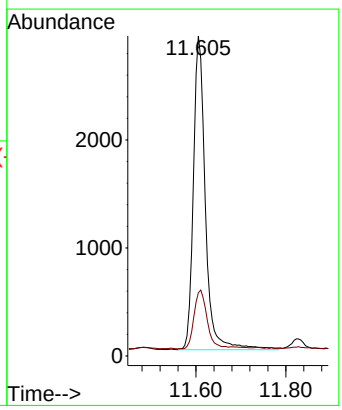


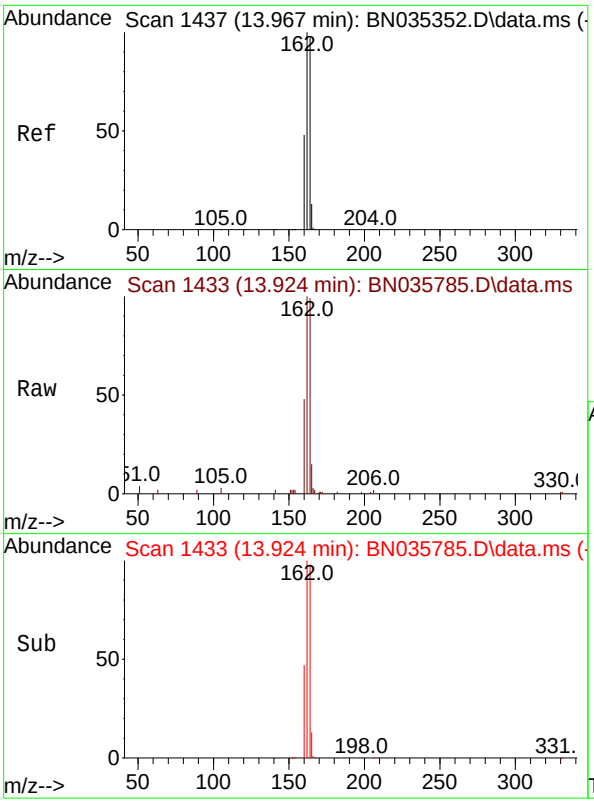


#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.605 min Scan# 1071
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:152 Resp: 5390

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	25.0



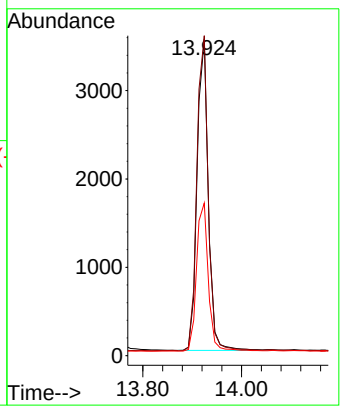


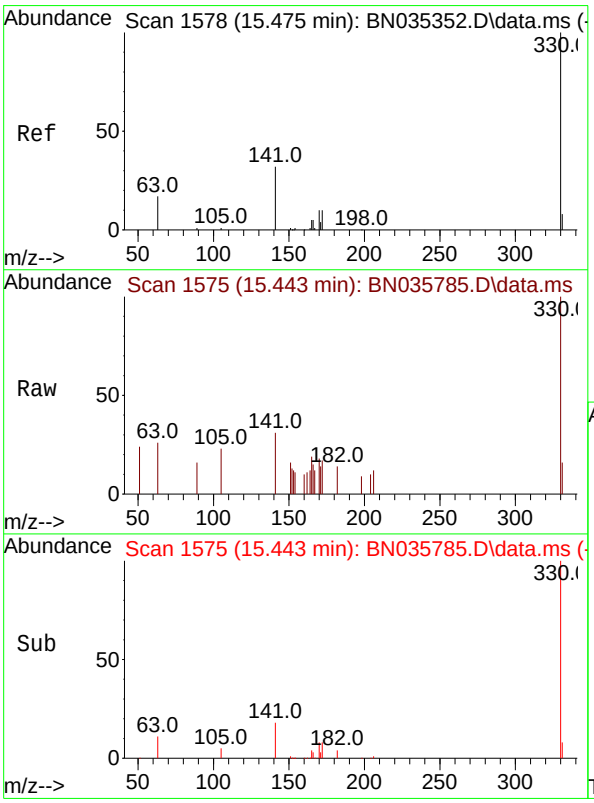
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:164 Resp: 5551

Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.2	123.2
160	48.3	40.1	60.1

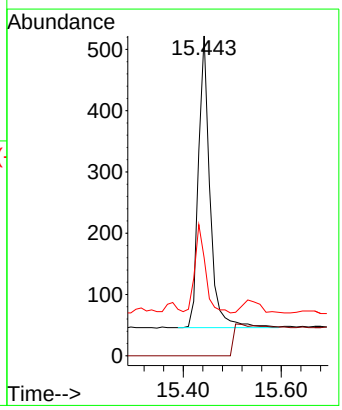


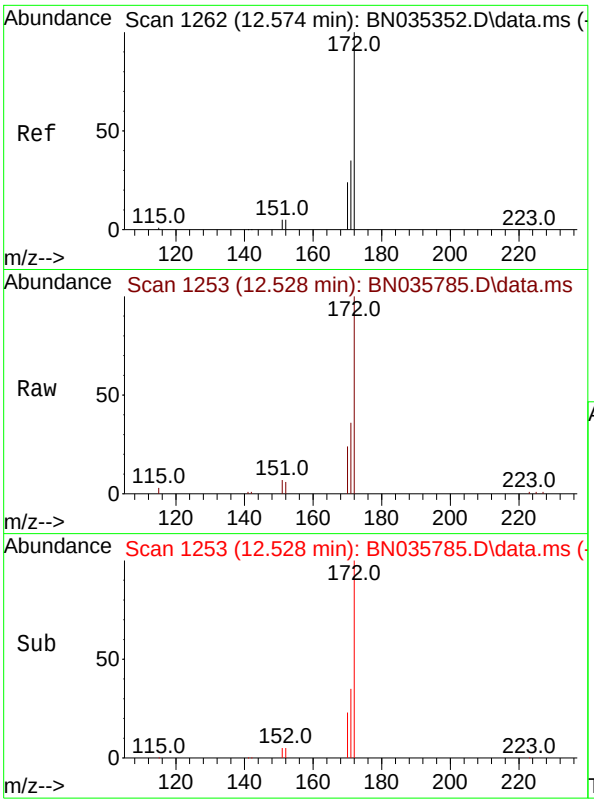


#14
2,4,6-Tribromophenol
Concen: 0.208 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:330 Resp: 819

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	26.9	26.6	40.0



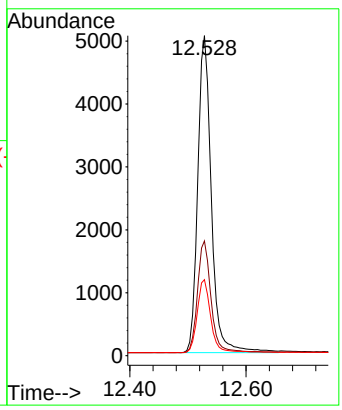


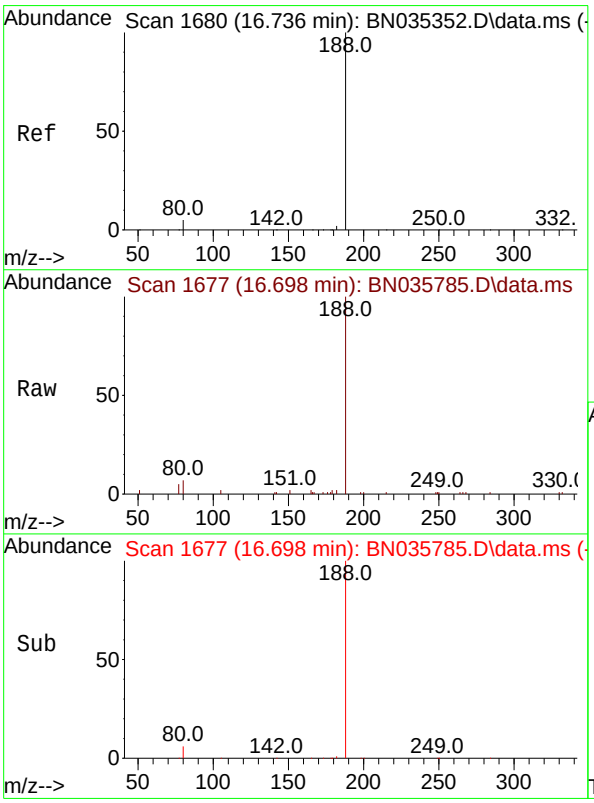
#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:172 Resp: 8168

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.0	43.4
170	23.8	19.8	29.8

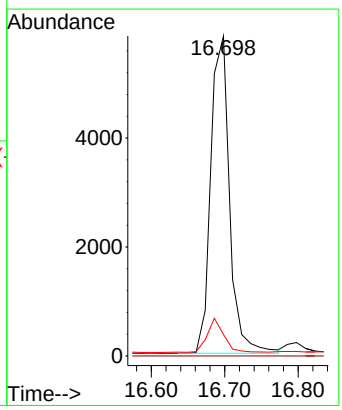


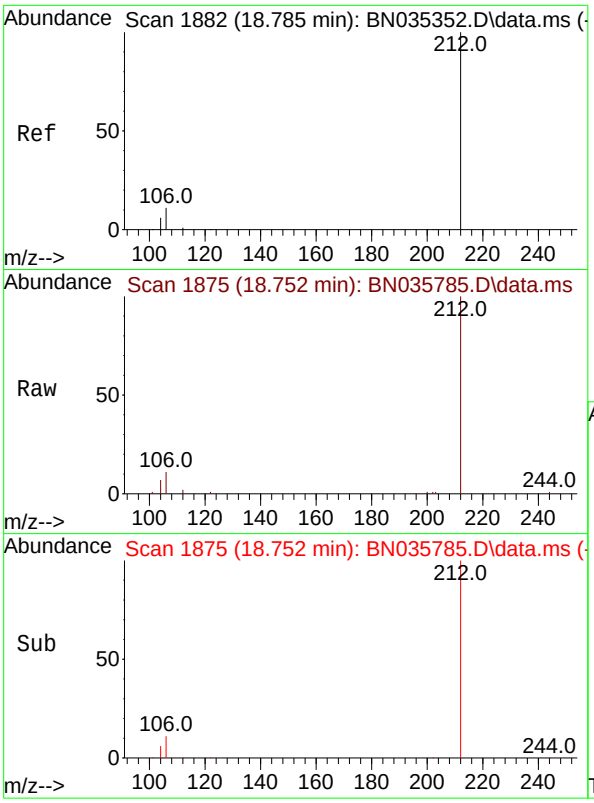


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:188 Resp: 10343

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.7	4.6	6.8



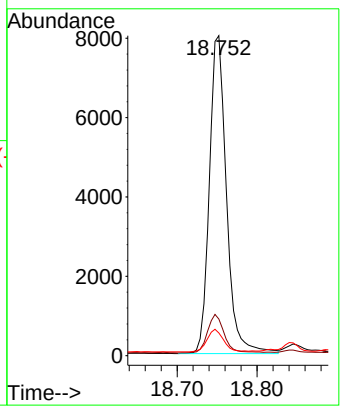


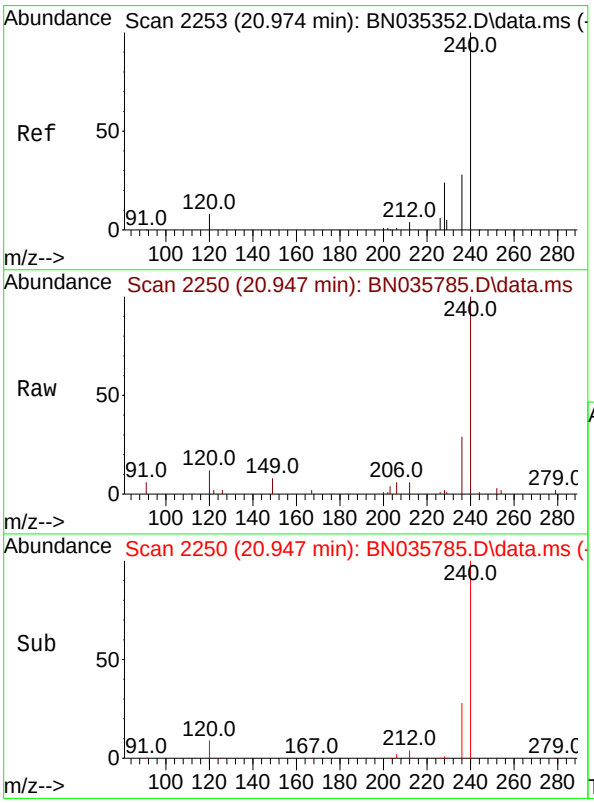
#27
Fluoranthene-d10
Concen: 0.406 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:212 Resp: 11895

Ion	Ratio	Lower	Upper
212	100		
106	11.9	9.2	13.8
104	6.8	5.3	7.9

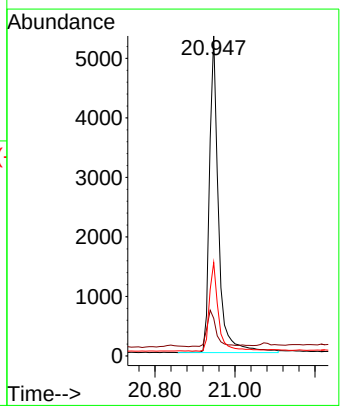


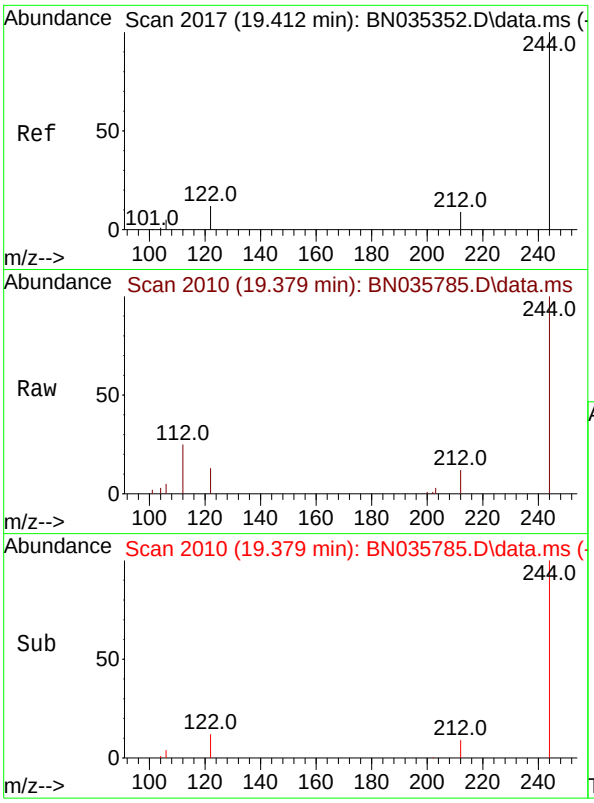


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:240 Resp: 8364

Ion	Ratio	Lower	Upper
240	100		
120	11.7	7.9	11.9
236	29.2	22.9	34.3



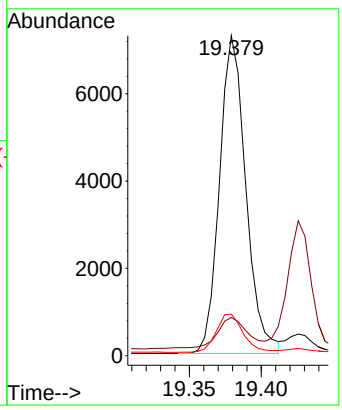


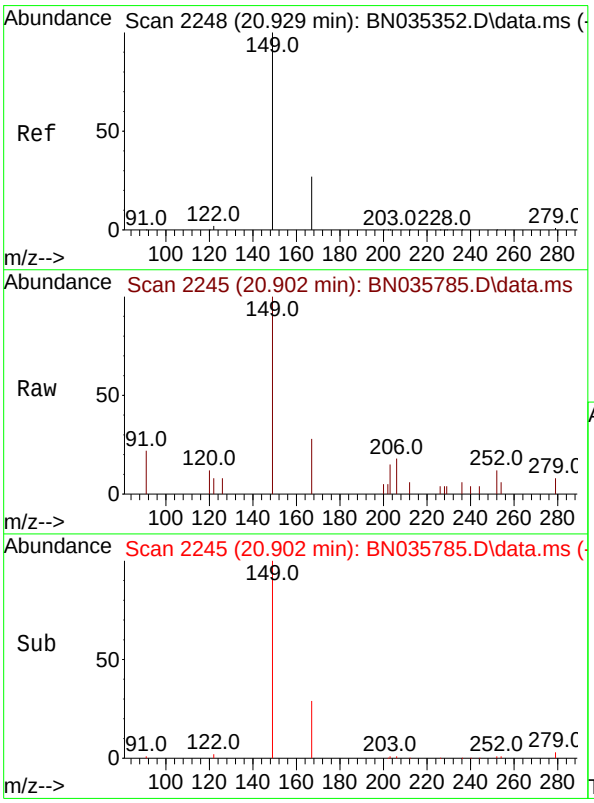
#31
Terphenyl-d14
Concen: 0.562 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:244 Resp: 9273

Ion	Ratio	Lower	Upper
244	100		
212	12.0	8.1	12.1
122	13.0	10.3	15.5

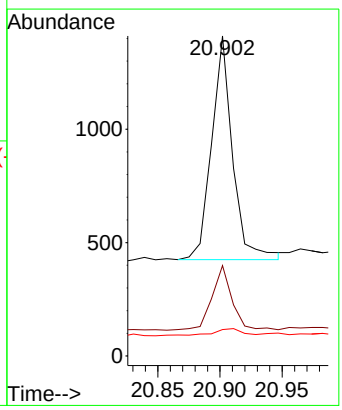


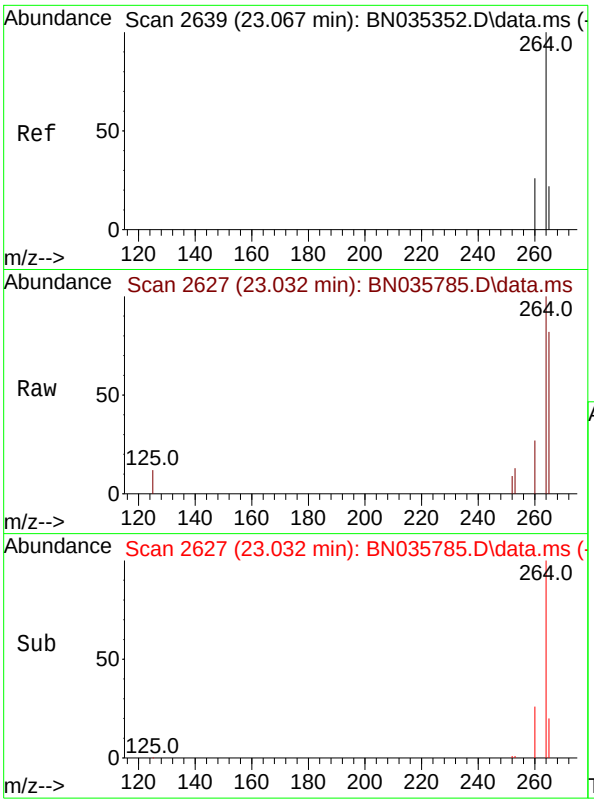


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Tgt Ion:149 Resp: 1156

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.4
279	4.8	2.7	4.1#



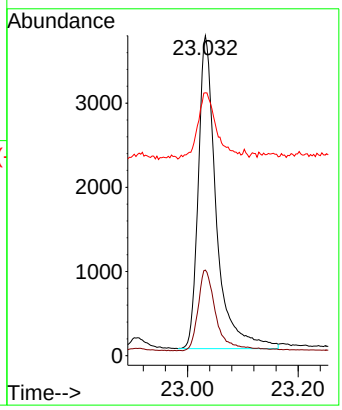


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.032 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035785.D
Acq: 23 Dec 2024 15:41

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190A-GW-678-680

Tgt Ion:264 Resp: 8390

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	82.2	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Quant Time: Dec 23 17:12:25 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	4132	0.400	ng	0.00
7) Naphthalene-d8	10.009	136	10947	0.400	ng	#-0.01
13) Acenaphthene-d10	13.925	164	6411	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	11585	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	7747	0.400	ng	# 0.00
35) Perylene-d12	23.035	264	5708	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.932	112	87	0.008	ng	0.00
5) Phenol-d6	6.499	99	29	0.002	ng	0.00
8) Nitrobenzene-d5	8.397	82	3104	0.464	ng	-0.01
11) 2-Methylnaphthalene-d10	11.616	152	2304	0.134	ng	0.00
14) 2,4,6-Tribromophenol	15.443	330	575	0.126	ng	-0.01
15) 2-Fluorobiphenyl	12.534	172	10360	0.427	ng	-0.01
27) Fluoranthene-d10	18.752	212	5607	0.171	ng	0.00
31) Terphenyl-d14	19.379	244	10391	0.680	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.198	42	540	0.164	ng	# 1
6) bis(2-Chloroethyl)ether	6.687	93	88714	8.489	ng	# 51
34) Bis(2-ethylhexyl)phtha...	20.902	149	1139	0.106	ng	99

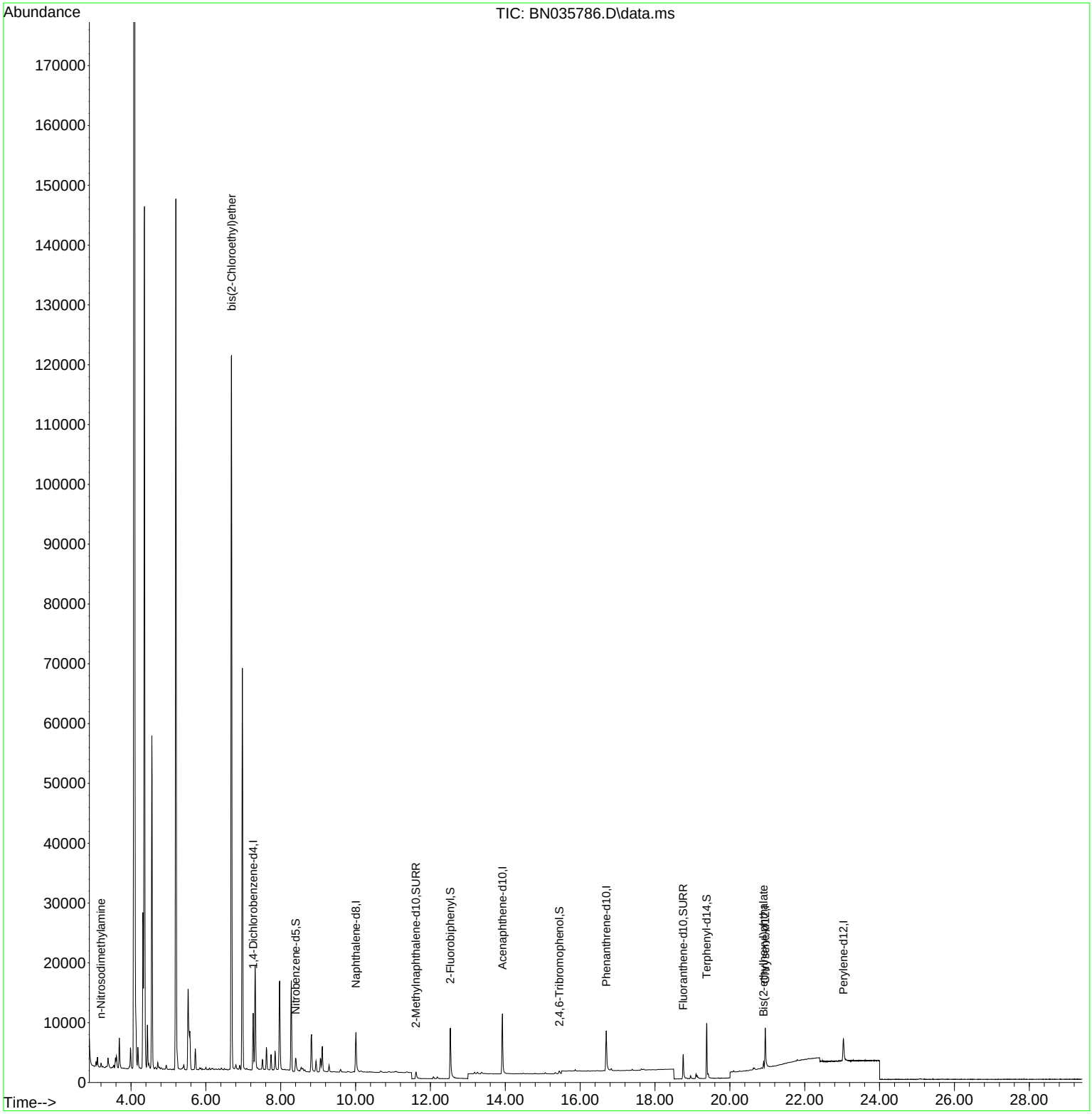
(#) = qualifier out of range (m) = manual integration (+) = signals summed

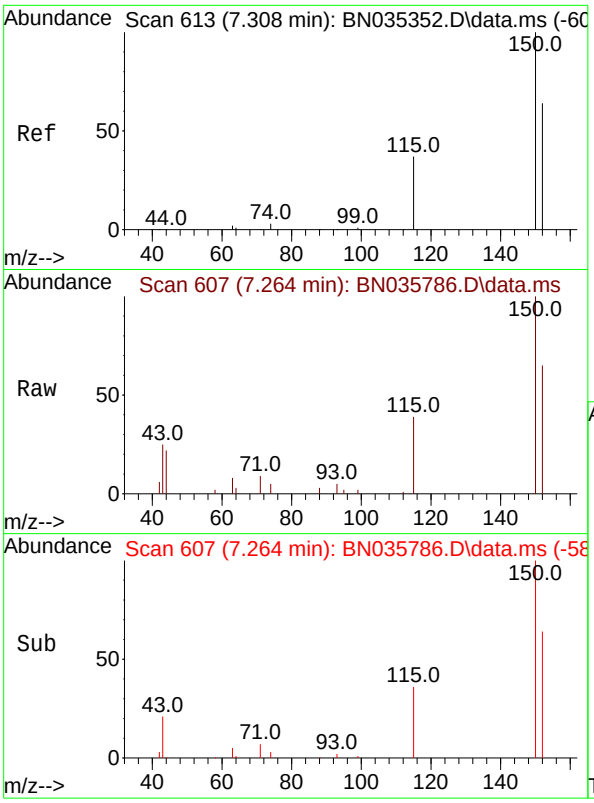
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035786.D
Acq On : 23 Dec 2024 16:17
Operator : RC/JU
Sample : P5314-04
Misc :
ALS Vial : 68 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Quant Time: Dec 23 17:12:25 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



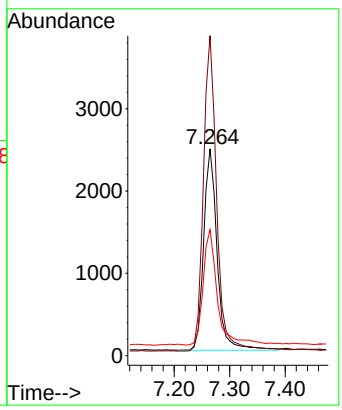


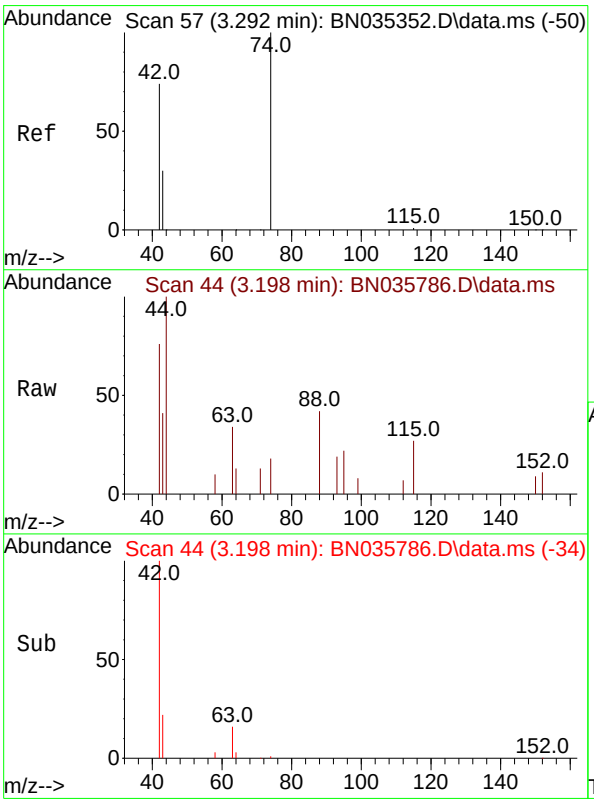
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.264 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:152 Resp: 4132

Ion	Ratio	Lower	Upper
152	100		
150	154.7	124.0	186.0
115	60.9	49.6	74.4

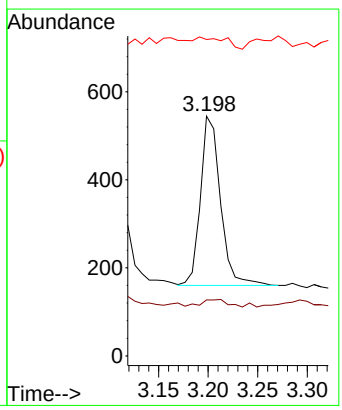


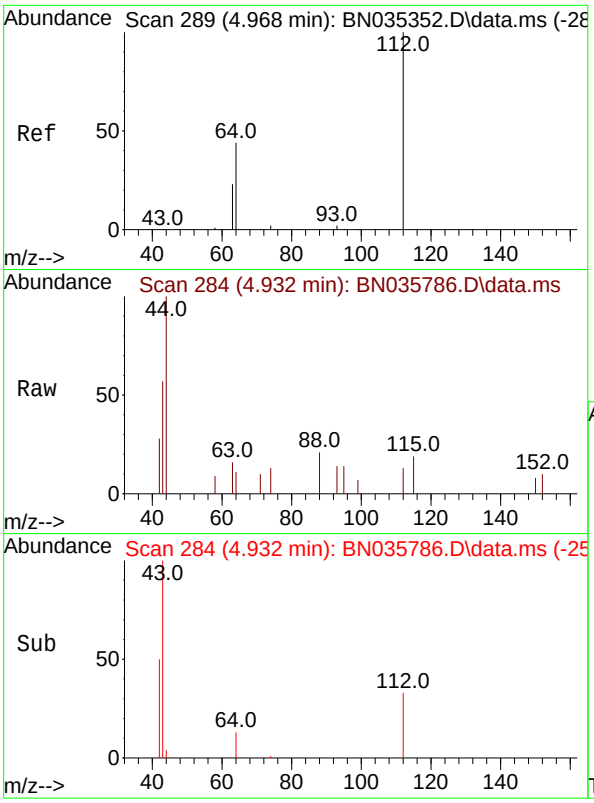


#3
n-Nitrosodimethylamine
Concen: 0.164 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.079 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 42 Resp: 540

Ion	Ratio	Lower	Upper
42	100		
74	0.0	124.9	187.3#
44	10.0	2.2	3.4#



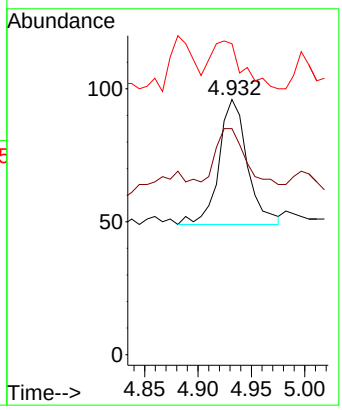


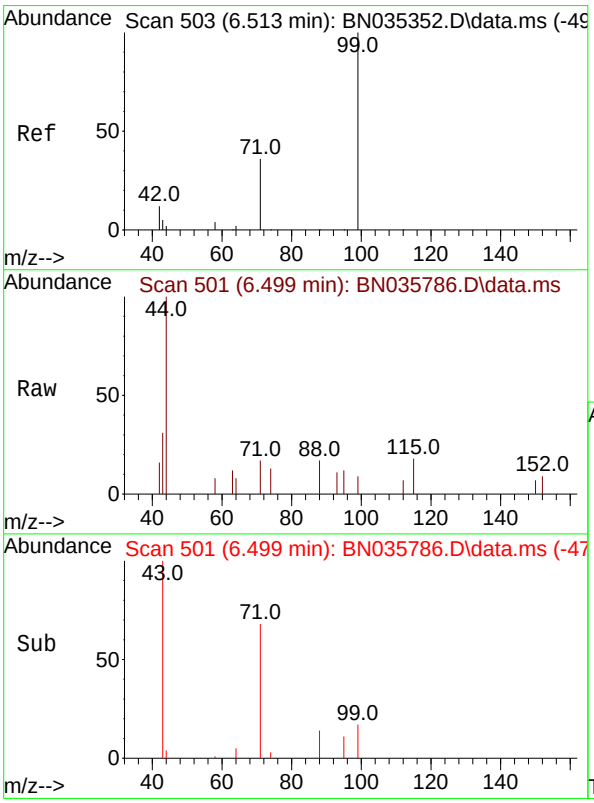
#4
2-Fluorophenol
Concen: 0.008 ng
RT: 4.932 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:112 Resp: 87

Ion	Ratio	Lower	Upper
112	100		
64	44.8	39.8	59.8
63	59.8	21.0	31.6#

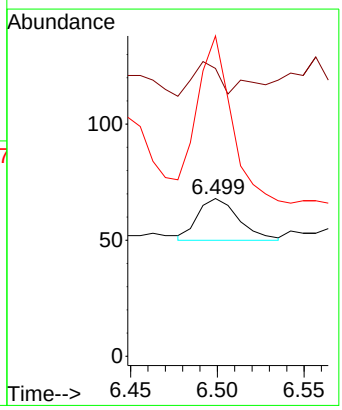


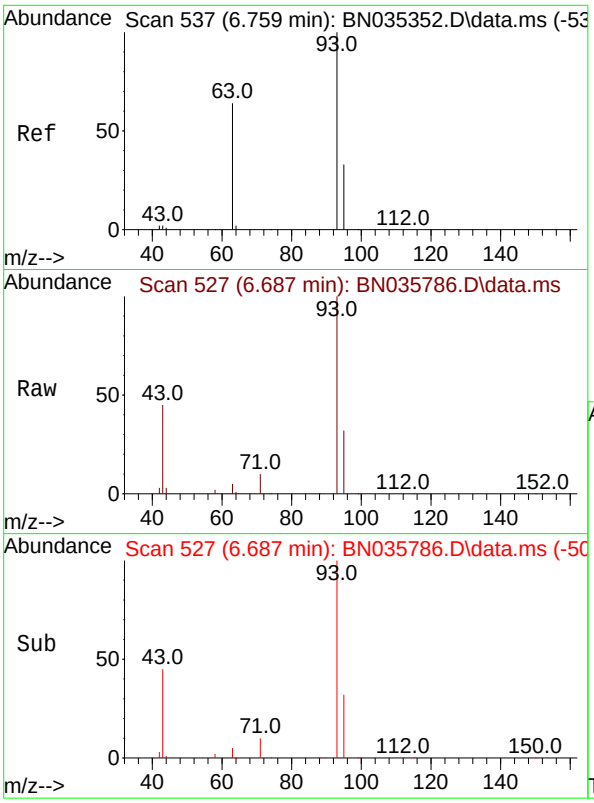


#5
Phenol-d6
Concen: 0.002 ng
RT: 6.499 min Scan# 501
Delta R.T. 0.007 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion: 99 Resp: 29

Ion	Ratio	Lower	Upper
99	100		
42	0.0	11.4	17.2#
71	0.0	29.3	43.9#



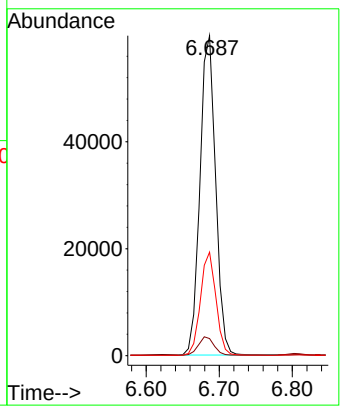


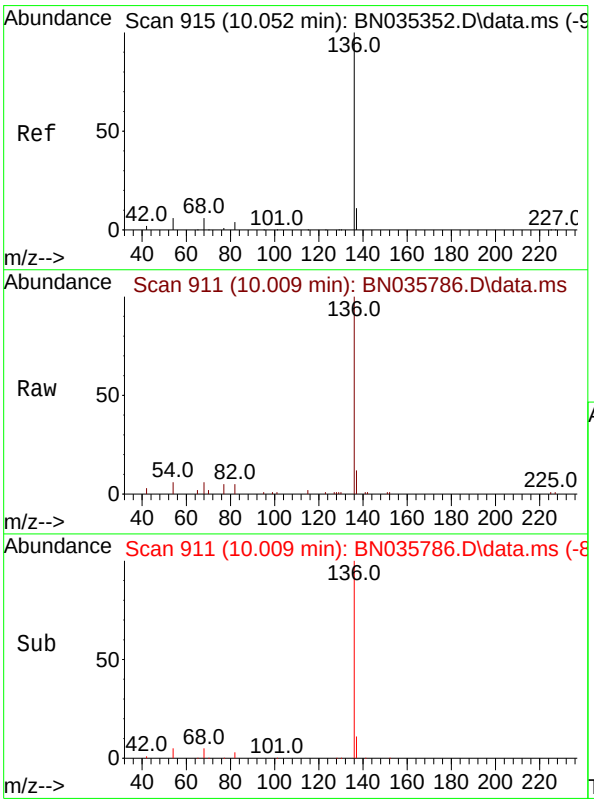
#6
bis(2-Chloroethyl)ether
Concen: 8.489 ng
RT: 6.687 min Scan# 5
Delta R.T. -0.043 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion: 93 Resp: 88714

Ion	Ratio	Lower	Upper
93	100		
63	5.7	50.4	75.6#
95	32.0	25.7	38.5

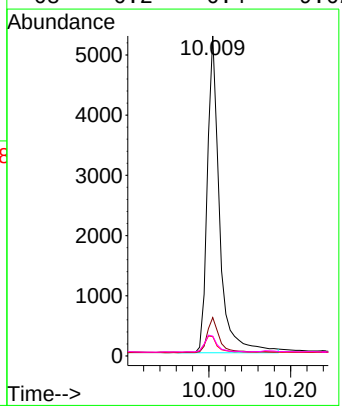


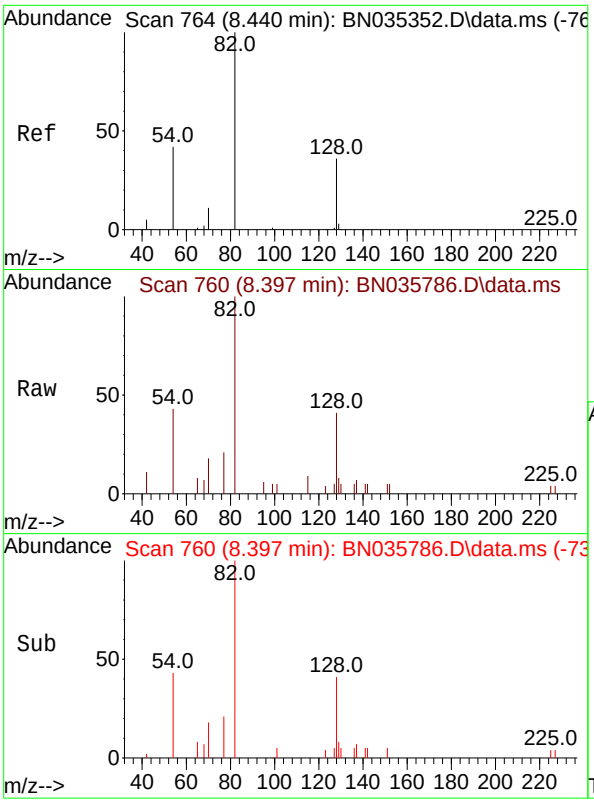


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:136 Resp: 10947

Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.2	15.2
54	6.1	6.1	9.1#
68	6.2	6.4	9.6#



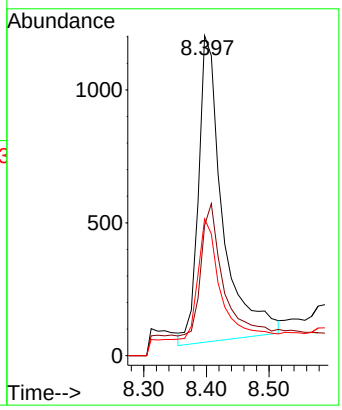


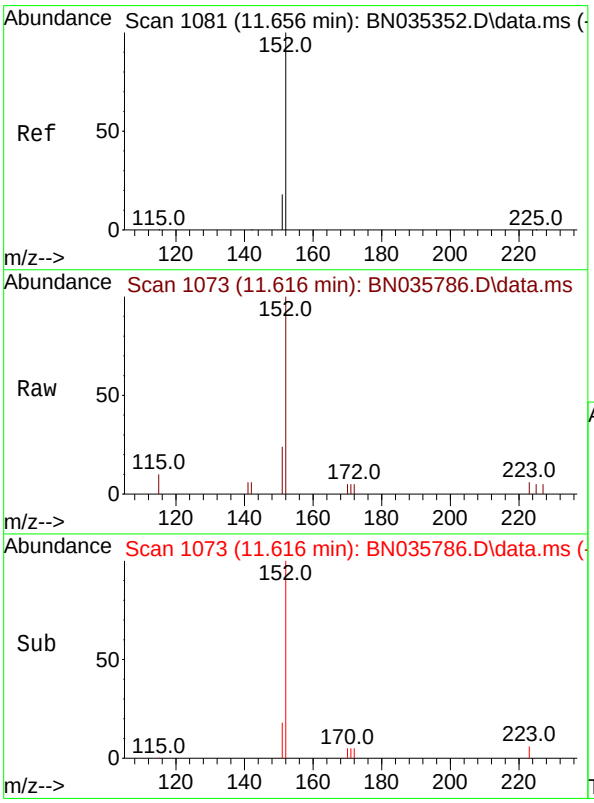
#8
Nitrobenzene-d5
Concen: 0.464 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion: 82 Resp: 3104

Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.4	50.0
54	42.8	36.7	55.1

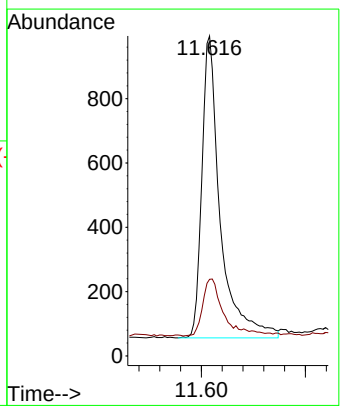


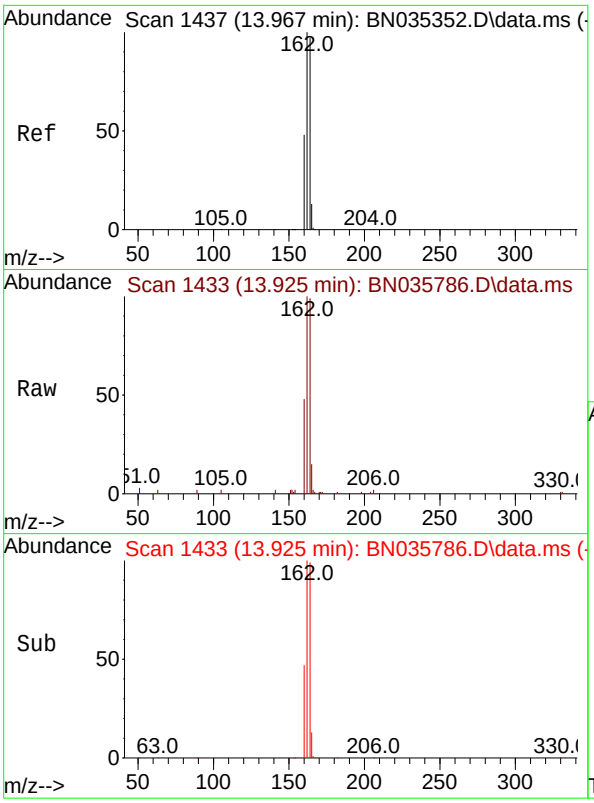


#11
2-Methylnaphthalene-d10
Concen: 0.134 ng
RT: 11.616 min Scan# 1073
Delta R.T. -0.005 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:152 Resp: 2304

Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.6	25.0



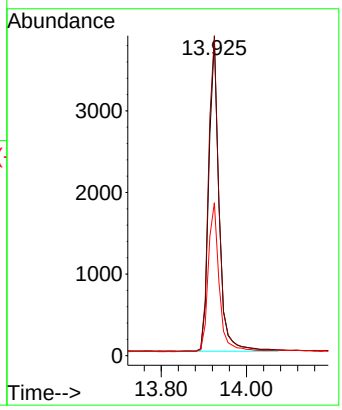


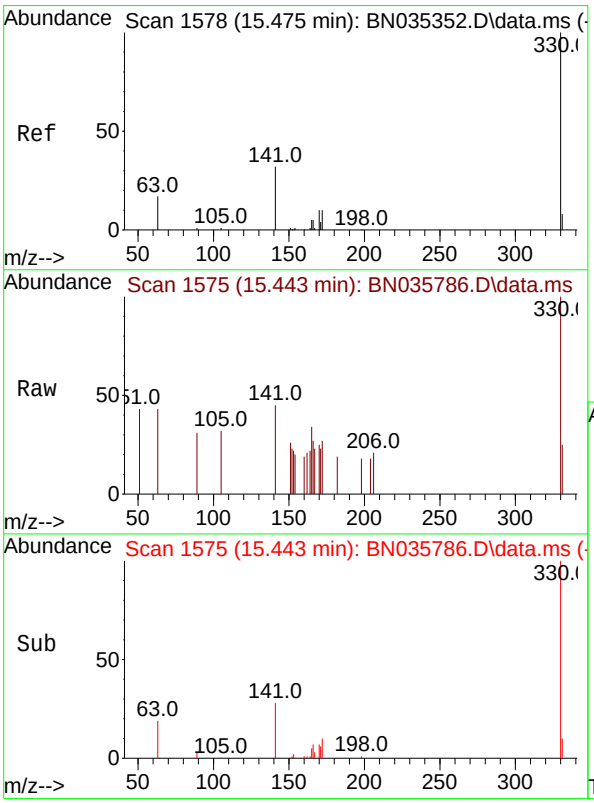
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:164 Resp: 6411

Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.2	123.2
160	48.5	40.1	60.1

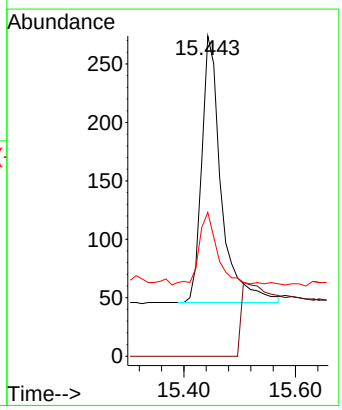


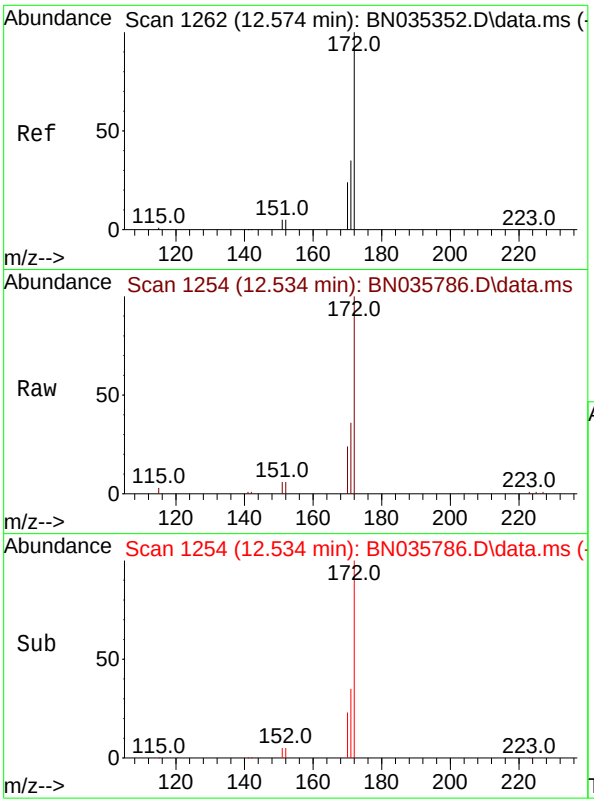


#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:330 Resp: 575

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	23.8	26.6	40.0#



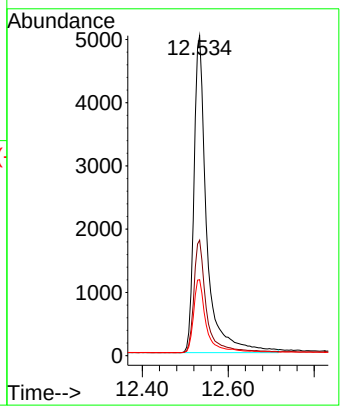


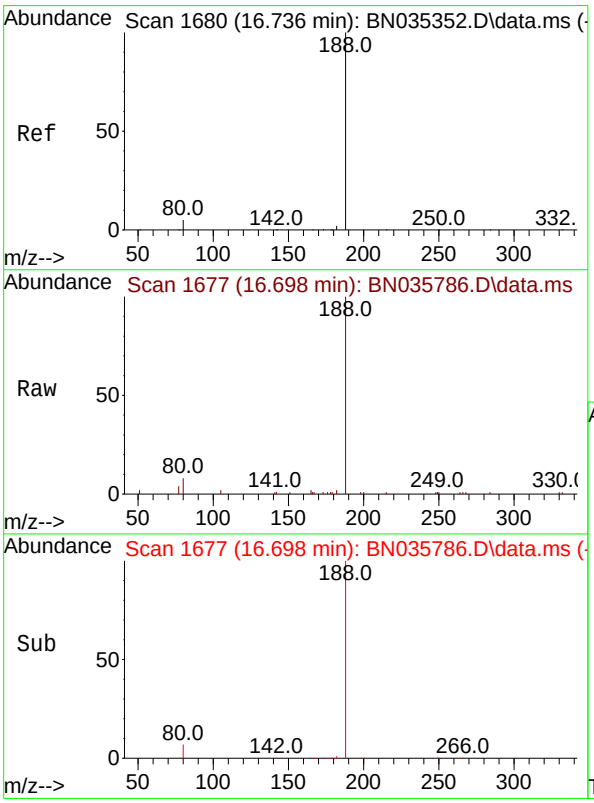
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:172 Resp: 10360

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.0	43.4
170	23.7	19.8	29.8

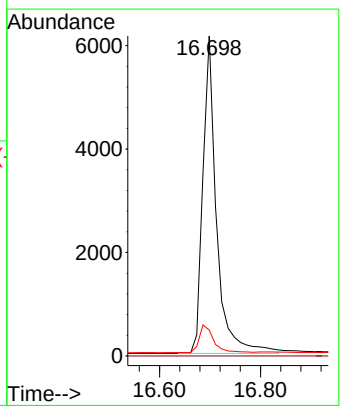


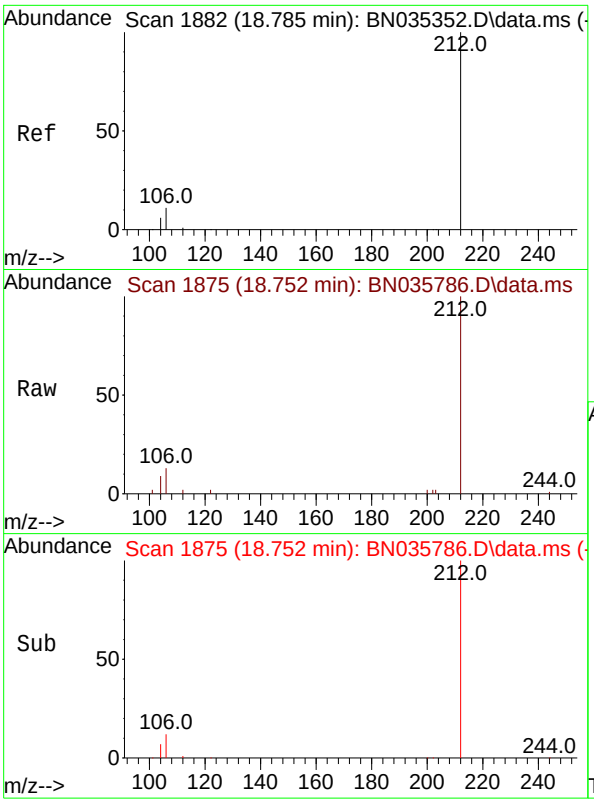


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:188 Resp: 11585

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.1	4.6	6.8#



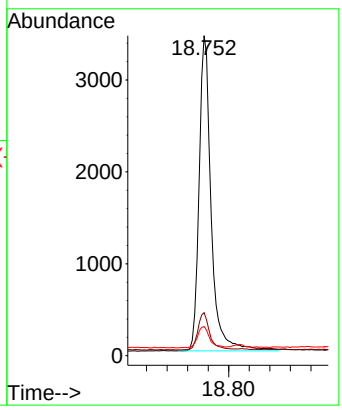


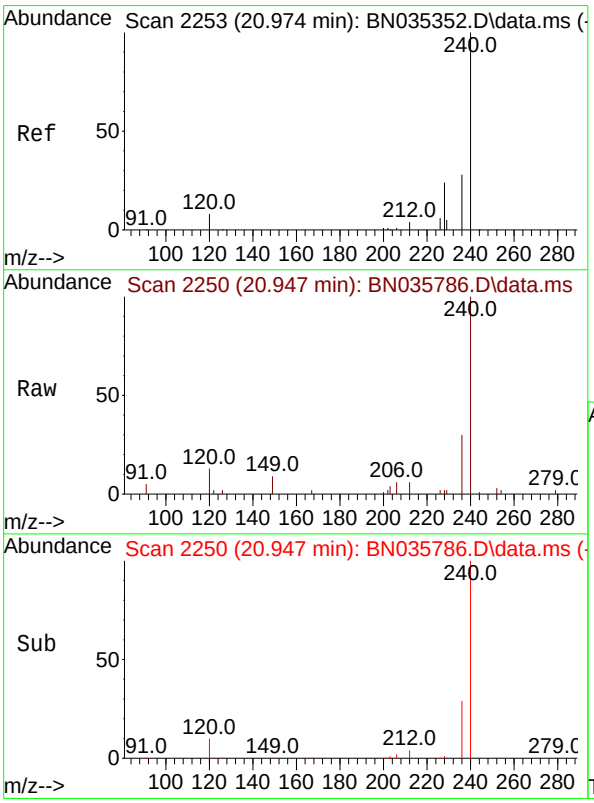
#27
Fluoranthene-d10
Concen: 0.171 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:212 Resp: 5607

Ion	Ratio	Lower	Upper
212	100		
106	11.6	9.2	13.8
104	6.8	5.3	7.9

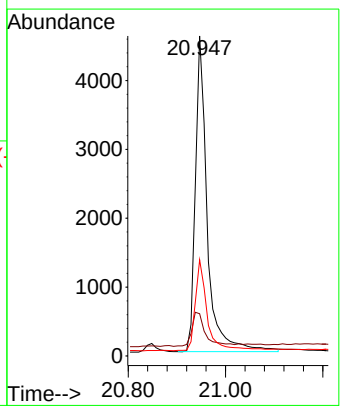


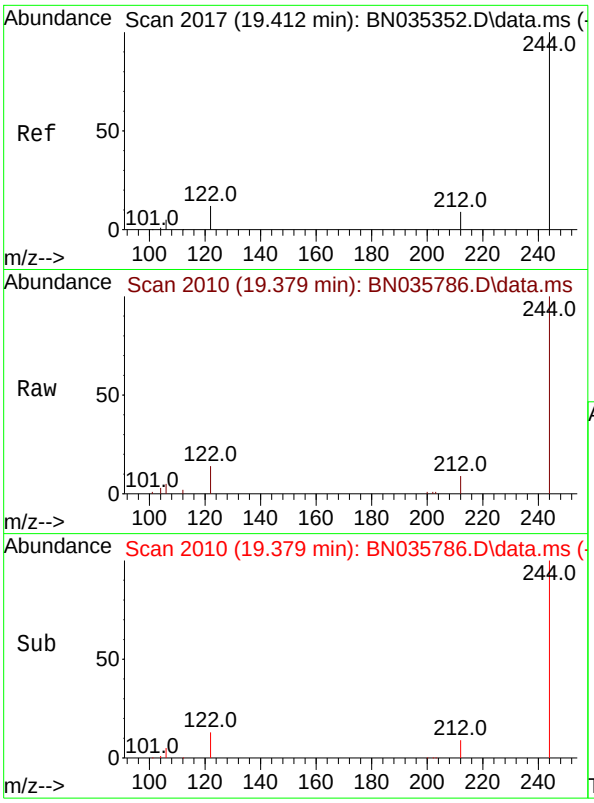


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:240 Resp: 7747

Ion	Ratio	Lower	Upper
240	100		
120	13.2	7.9	11.9#
236	30.0	22.9	34.3



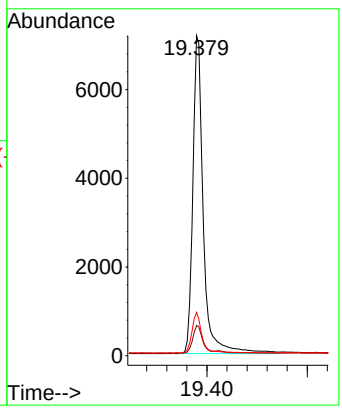


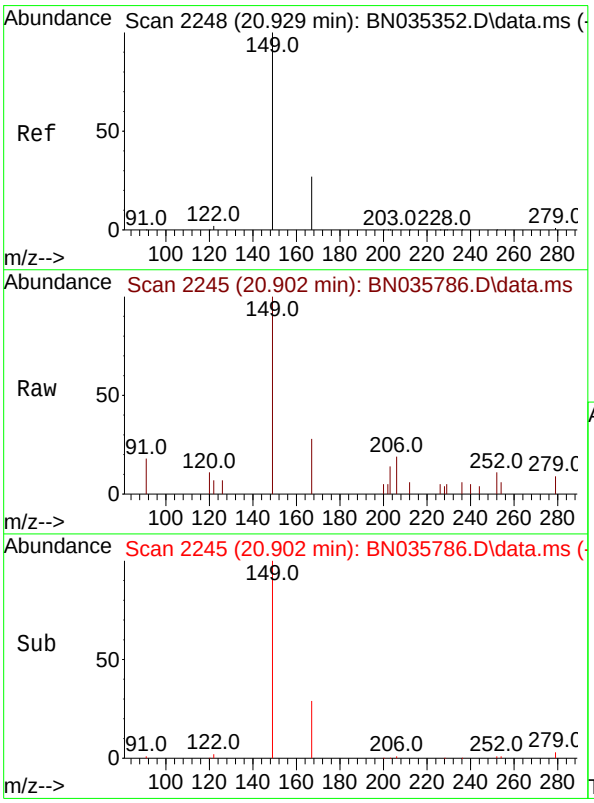
#31
Terphenyl-d14
Concen: 0.680 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:244 Resp: 10391

Ion	Ratio	Lower	Upper
244	100		
212	9.5	8.1	12.1
122	13.6	10.3	15.5

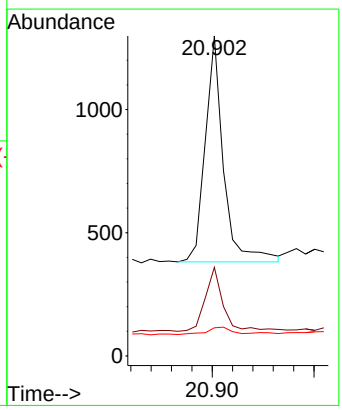


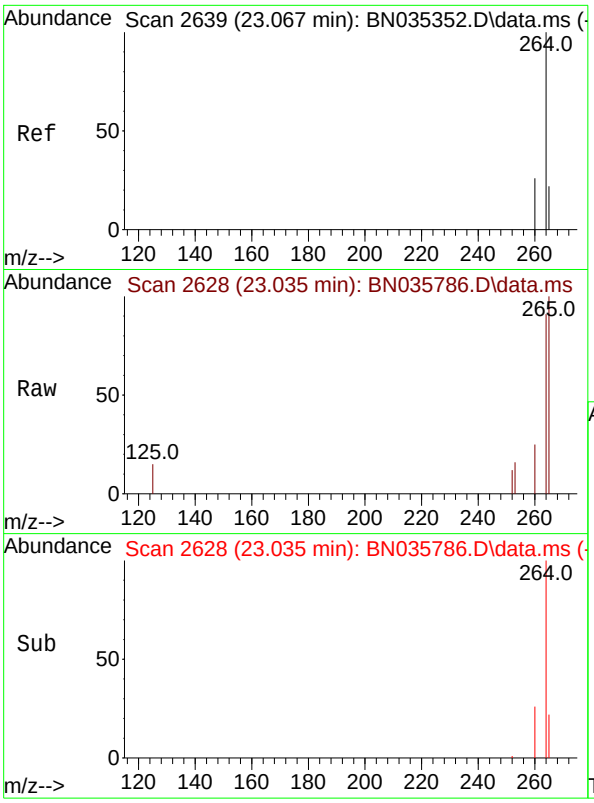


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.106 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Tgt Ion:149 Resp: 1139

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.4
279	3.6	2.7	4.1



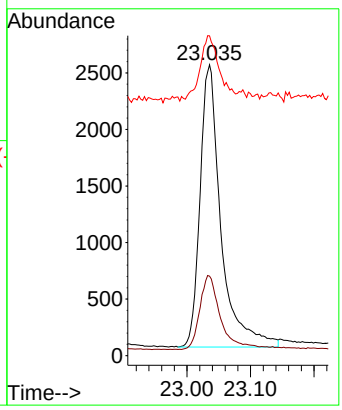


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.035 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN035786.D
Acq: 23 Dec 2024 16:17

Instrument :
BNA_N
ClientSampleId :
VPB190A-HYD-20241217

Tgt Ion:264 Resp: 5708

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.4	32.2
265	110.0	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 00:13:11 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	7.265	152	4653	0.400	ng		0.00
7) Naphthalene-d8	10.009	136	11294	0.400	ng		#-0.01
13) Acenaphthene-d10	13.925	164	6622	0.400	ng		-0.01
19) Phenanthrene-d10	16.698	188	13445	0.400	ng		# 0.00
29) Chrysene-d12	20.947	240	11173	0.400	ng		0.00
35) Perylene-d12	23.029	264	12122	0.400	ng		#-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	4.932	112	4438	0.381	ng		0.00
5) Phenol-d6	6.477	99	4937	0.352	ng		-0.01
8) Nitrobenzene-d5	8.397	82	3594	0.521	ng		-0.01
11) 2-Methylnaphthalene-d10	11.611	152	6296	0.356	ng		-0.01
14) 2,4,6-Tribromophenol	15.443	330	1460	0.311	ng		-0.01
15) 2-Fluorobiphenyl	12.534	172	10050	0.401	ng		-0.01
27) Fluoranthene-d10	18.752	212	13067	0.343	ng		0.00
31) Terphenyl-d14	19.384	244	9007	0.409	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.982	88	1781	0.400	ng		100
3) n-Nitrosodimethylamine	3.271	42	1450	0.391	ng	#	87
6) bis(2-Chloroethyl)ether	6.716	93	4124	0.350	ng		100
9) Naphthalene	10.052	128	11411	0.383	ng		99
10) Hexachlorobutadiene	10.340	225	2978	0.433	ng	#	99
12) 2-Methylnaphthalene	11.687	142	7291	0.342	ng		100
16) Acenaphthylene	13.636	152	10309	0.371	ng		99
17) Acenaphthene	13.989	154	7045	0.382	ng		99
18) Fluorene	14.994	166	9147	0.346	ng		99
20) 4,6-Dinitro-2-methylph...	15.111	198	441	0.334	ng	#	71
21) 4-Bromophenyl-phenylether	15.904	248	2928	0.372	ng	#	95
22) Hexachlorobenzene	16.003	284	4080	0.442	ng		97
23) Atrazine	16.202	200	2050	0.366	ng		94
24) Pentachlorophenol	16.363	266	1288	0.321	ng		89
25) Phenanthrene	16.736	178	13655	0.370	ng		100
26) Anthracene	16.835	178	11693	0.350	ng		99
28) Fluoranthene	18.780	202	16797	0.337	ng		100
30) Pyrene	19.152	202	17165	0.416	ng		100
32) Benzo(a)anthracene	20.929	228	13119	0.336	ng		100
33) Chrysene	20.983	228	16717	0.415	ng		99
34) Bis(2-ethylhexyl)phtha...	20.902	149	6294	0.408	ng		100
36) Indeno(1,2,3-cd)pyrene	25.050	276	17740	0.374	ng		99
37) Benzo(b)fluoranthene	22.418	252	23904	0.539	ng		99
38) Benzo(k)fluoranthene	22.418	252	23904	0.548	ng		99
39) Benzo(a)pyrene	22.942	252	13375	0.366	ng	#	93
40) Dibenzo(a,h)anthracene	25.067	278	13081	0.350	ng		97
41) Benzo(g,h,i)perylene	25.661	276	15725	0.402	ng		100

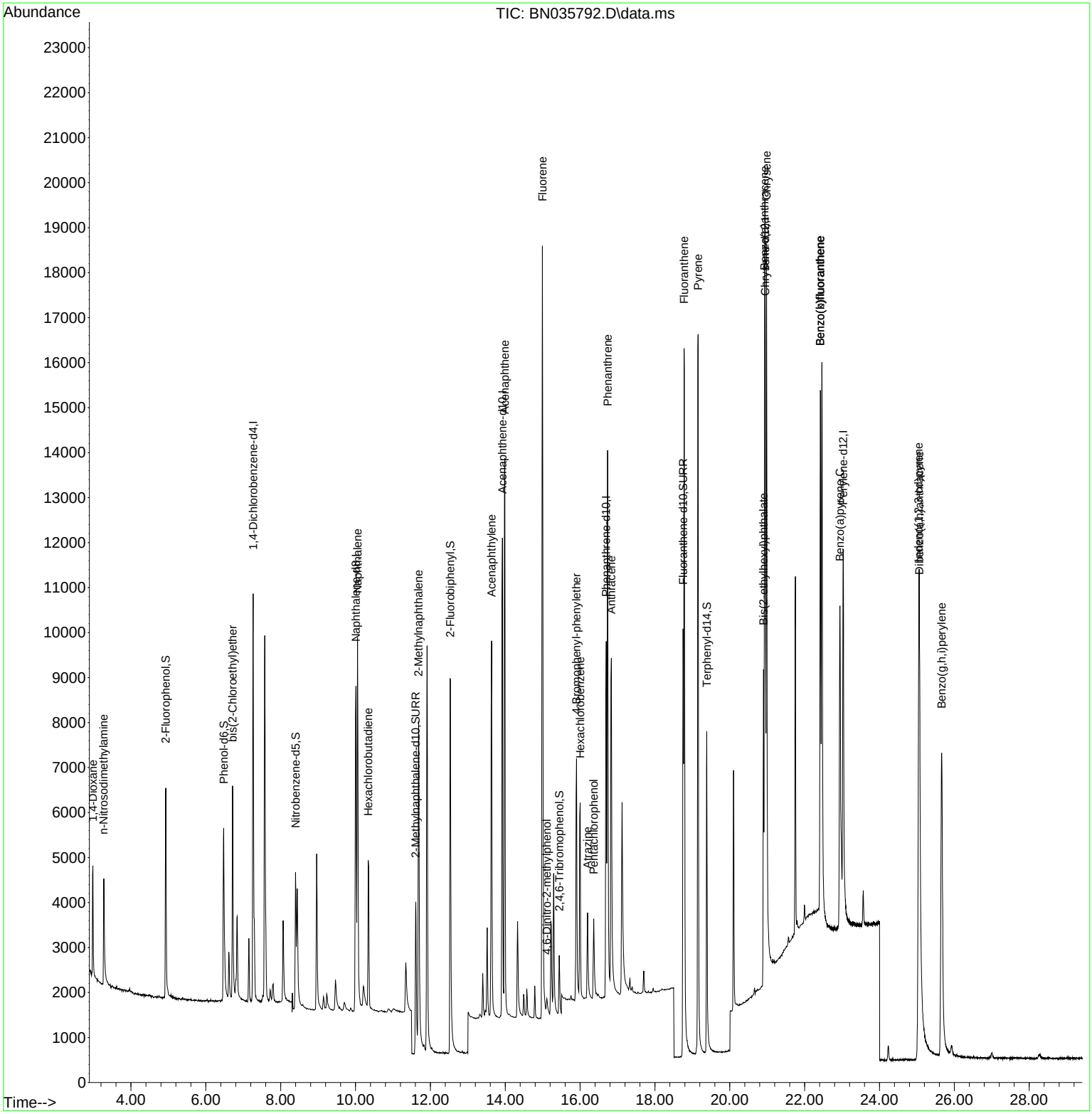
(#) = qualifier out of range (m) = manual integration (+) = signals summed

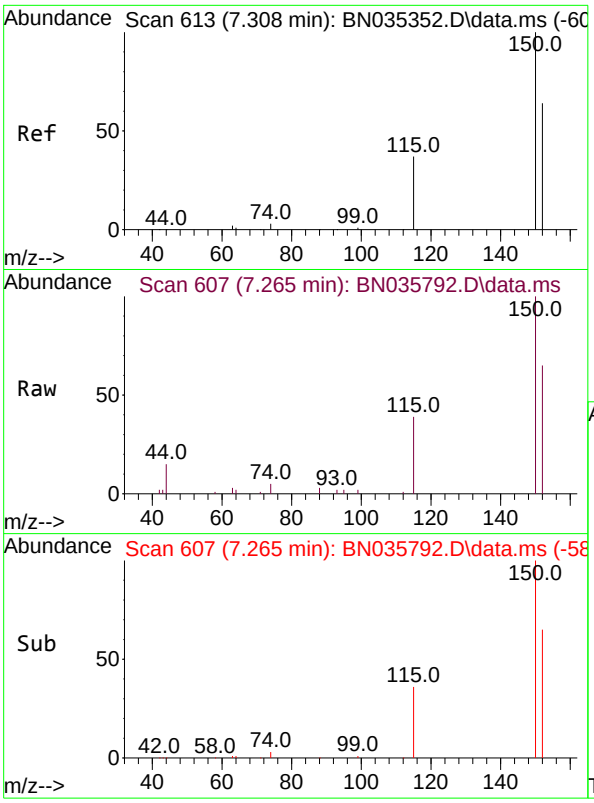
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122324\
Data File : BN035792.D
Acq On : 23 Dec 2024 19:51
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 74 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 24 00:13:11 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



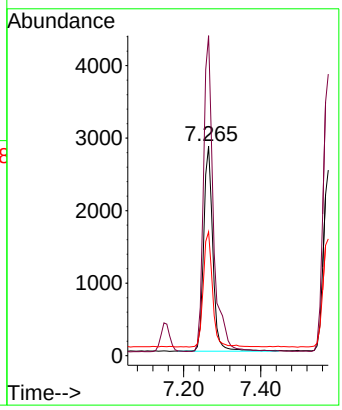


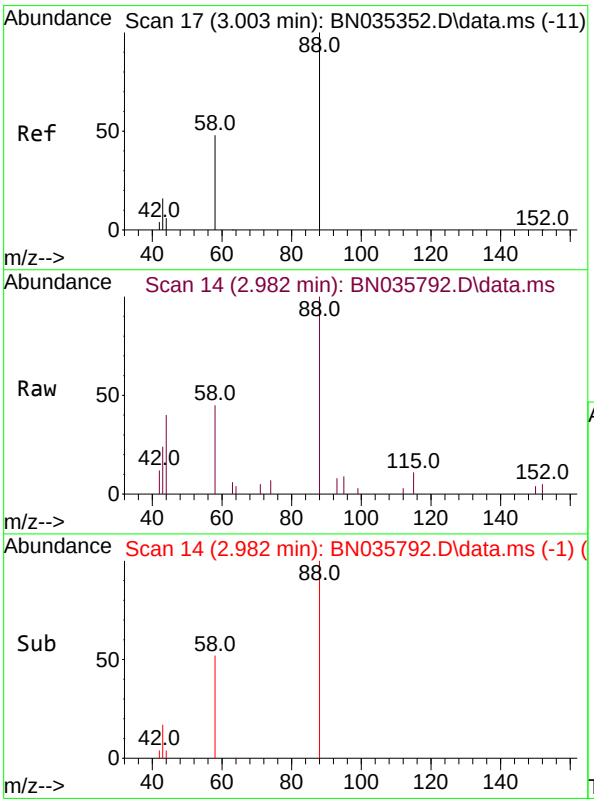
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.265 min Scan# 6(
Delta R.T. -0.008 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 4653

Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.0	186.0
115	59.2	49.6	74.4

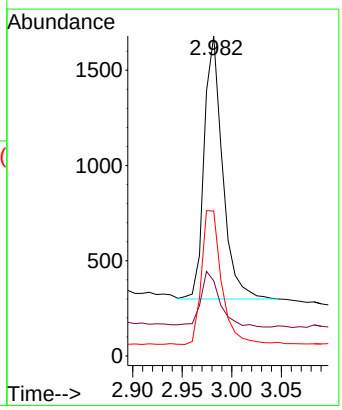


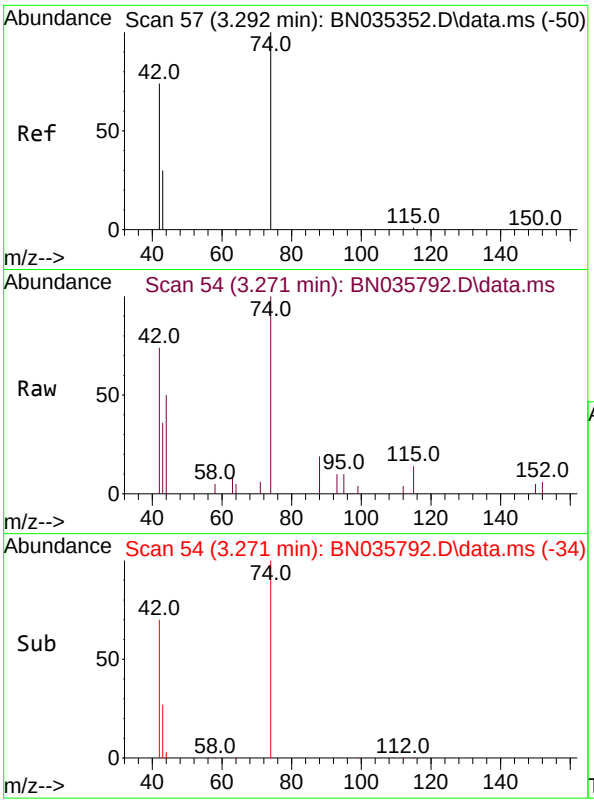


#2
1,4-Dioxane
Concen: 0.400 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 88 Resp: 1781

Ion	Ratio	Lower	Upper
88	100		
43	22.0	17.2	25.8
58	55.8	44.5	66.7



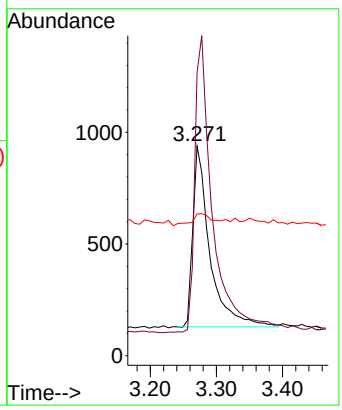


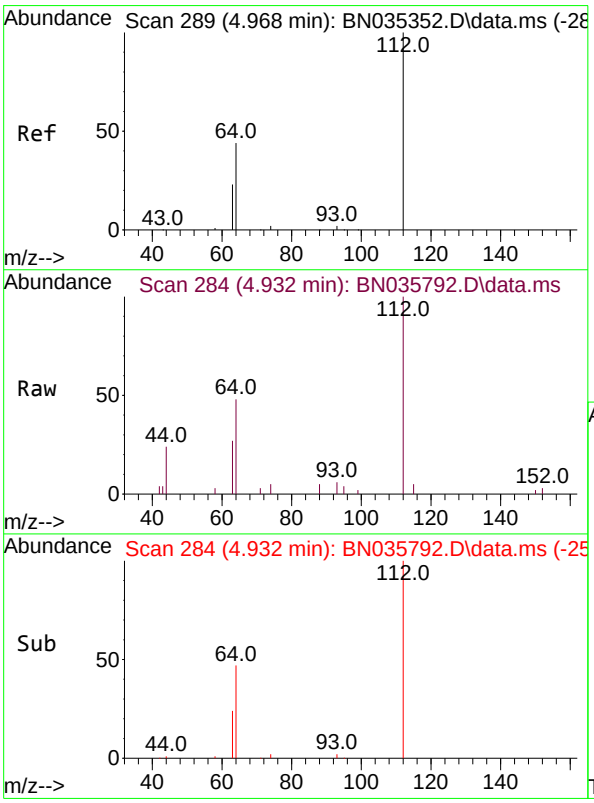
#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1450

Ion	Ratio	Lower	Upper
42	100		
74	173.0	124.9	187.3
44	5.2	2.2	3.4#

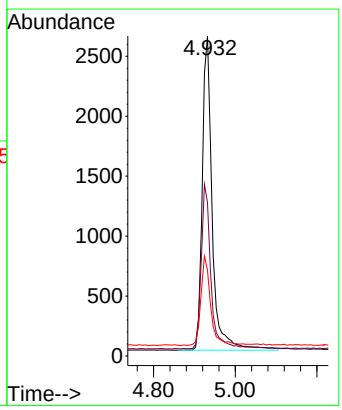


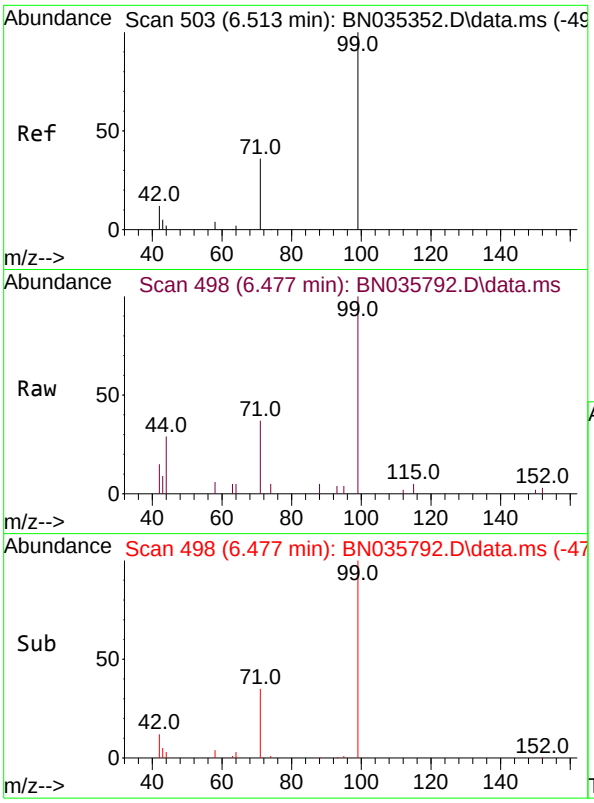


#4
2-Fluorophenol
Concen: 0.381 ng
RT: 4.932 min Scan# 284
Delta R.T. -0.007 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:112 Resp: 4438

Ion	Ratio	Lower	Upper
112	100		
64	51.3	39.8	59.8
63	28.3	21.0	31.6



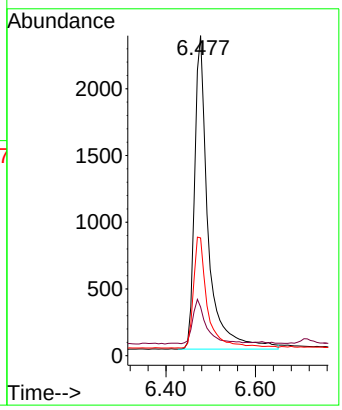


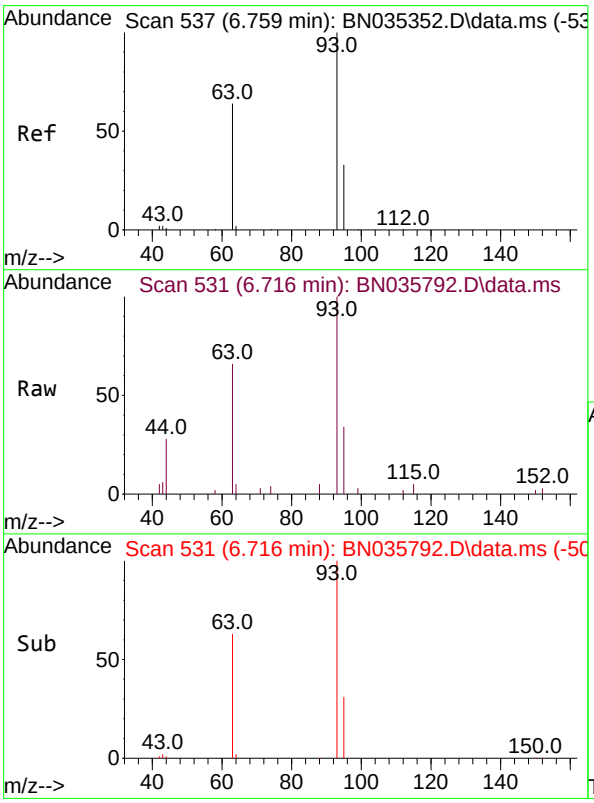
#5
Phenol-d6
Concen: 0.352 ng
RT: 6.477 min Scan# 4
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 4937

Ion	Ratio	Lower	Upper
99	100		
42	14.3	11.4	17.2
71	36.4	29.3	43.9

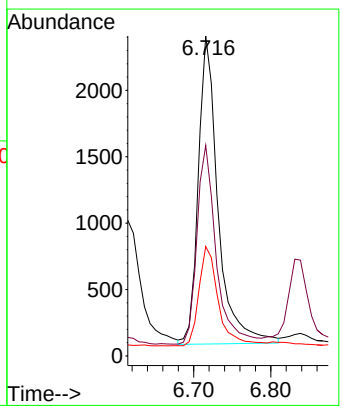


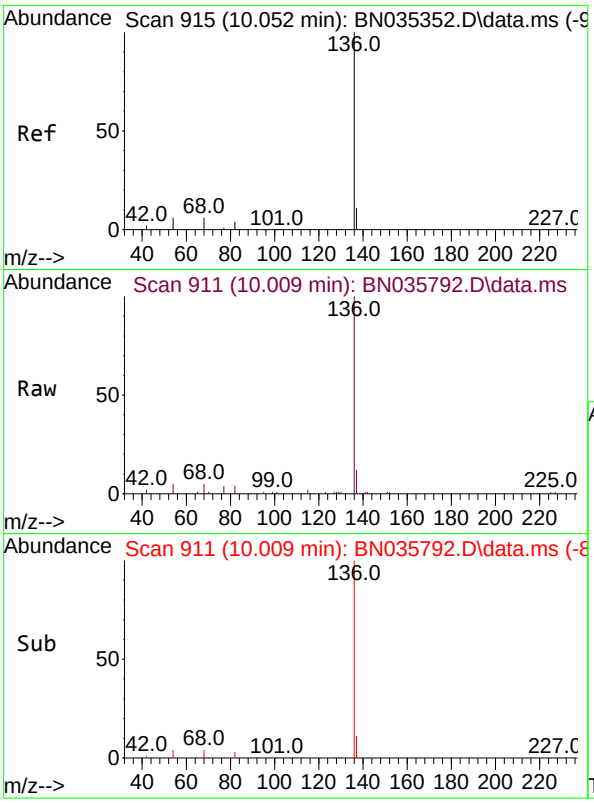


#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 93 Resp: 4124

Ion	Ratio	Lower	Upper
93	100		
63	63.0	50.4	75.6
95	32.1	25.7	38.5



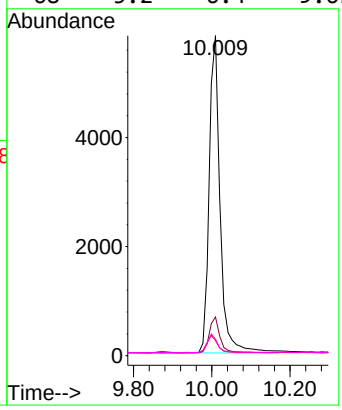


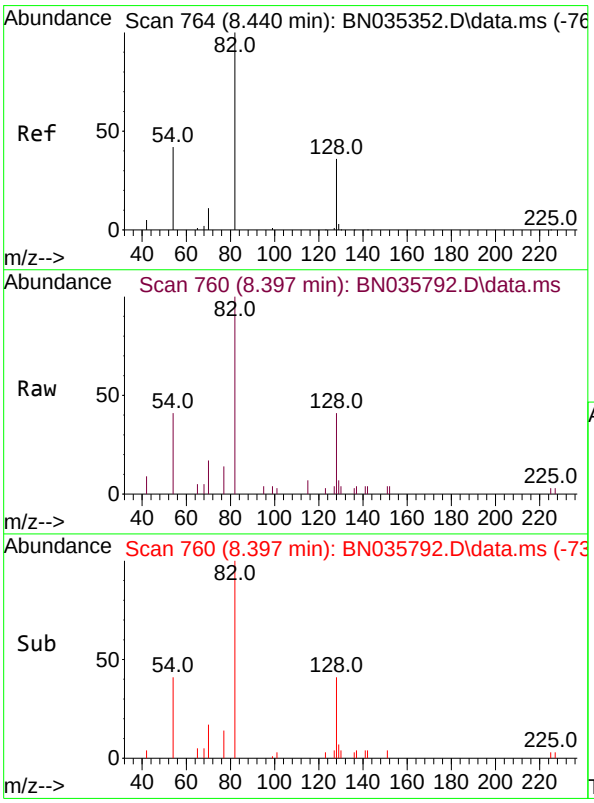
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.009 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:136 Resp: 11294

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	4.7	6.1	9.1#
68	5.2	6.4	9.6#

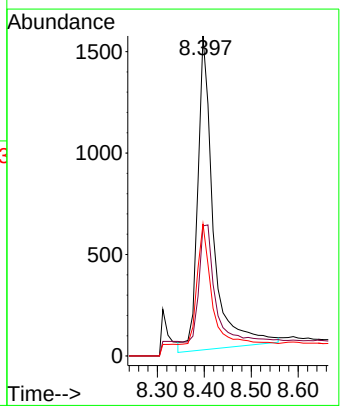


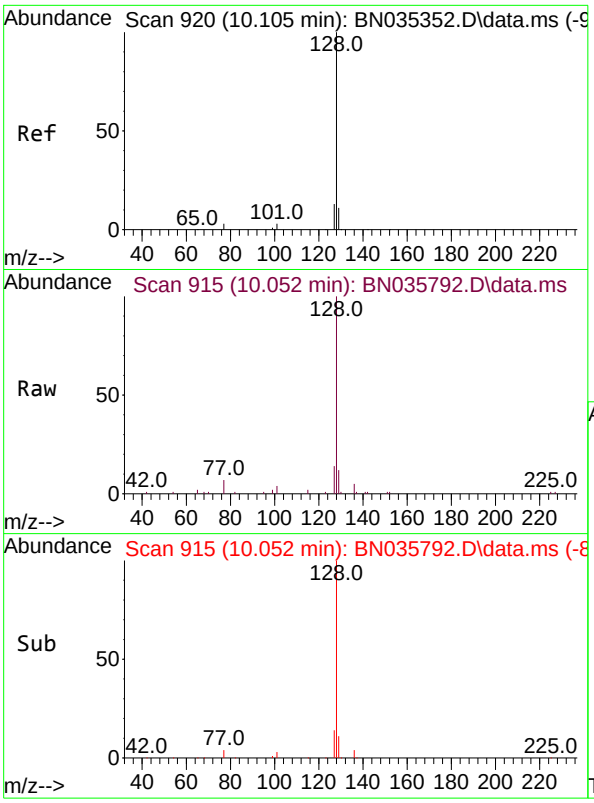


#8
Nitrobenzene-d5
Concen: 0.521 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion: 82 Resp: 3594

Ion	Ratio	Lower	Upper
82	100		
128	40.6	33.4	50.0
54	41.3	36.7	55.1



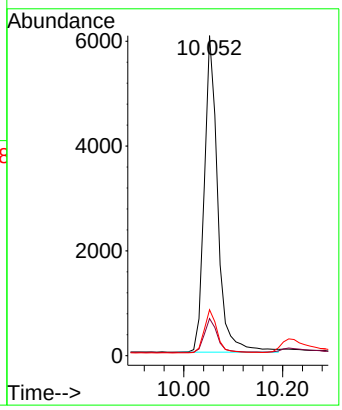


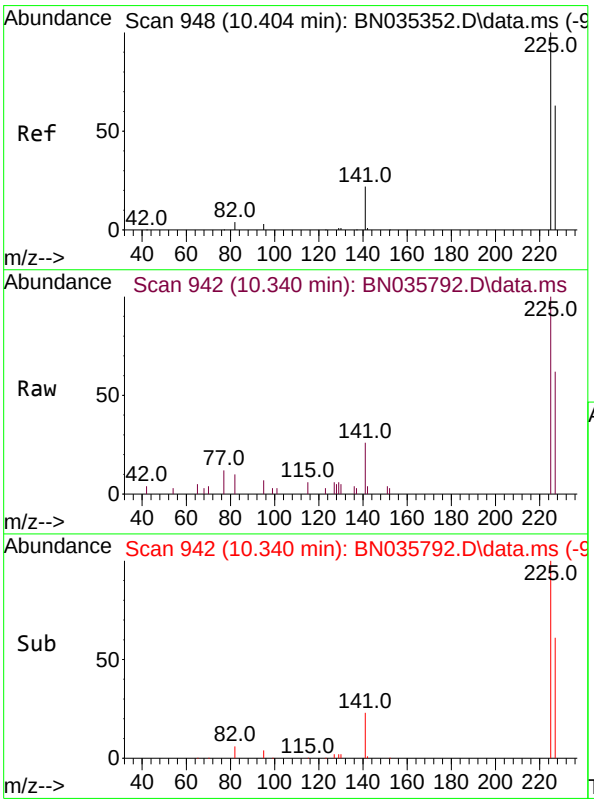
#9
Naphthalene
Concen: 0.383 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 11411

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.8	14.6
127	14.3	11.4	17.2

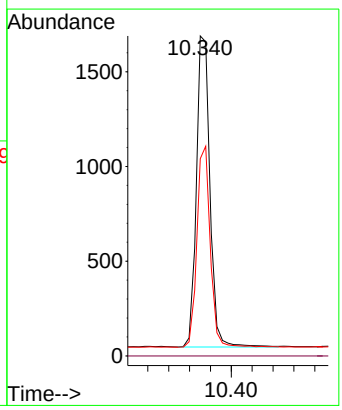


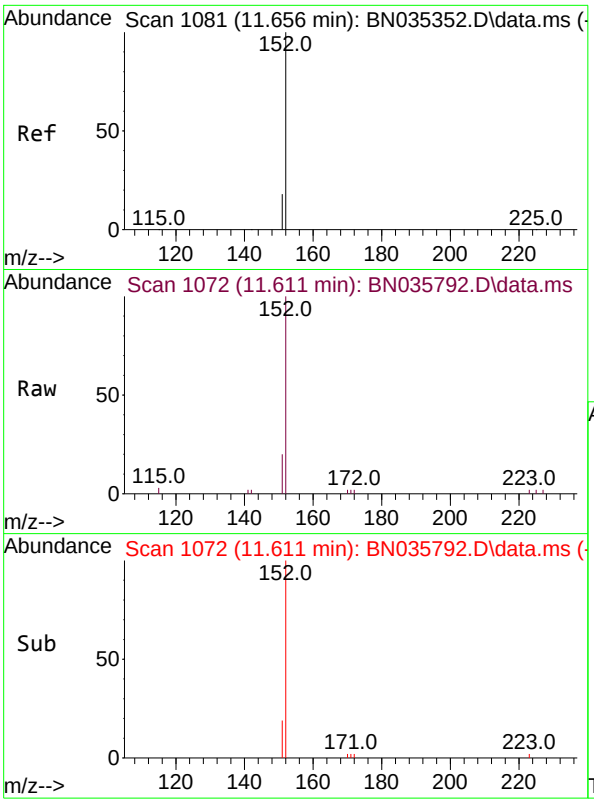


#10
Hexachlorobutadiene
Concen: 0.433 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:225 Resp: 2978

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.3	76.9



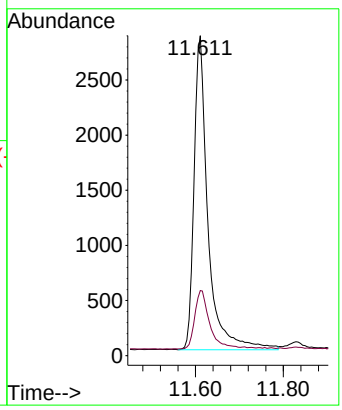


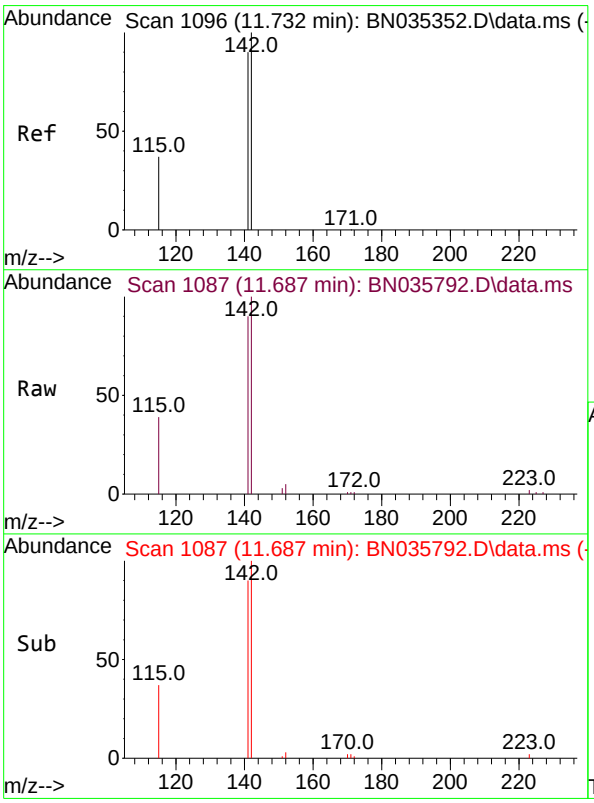
#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.611 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 6296

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	25.0

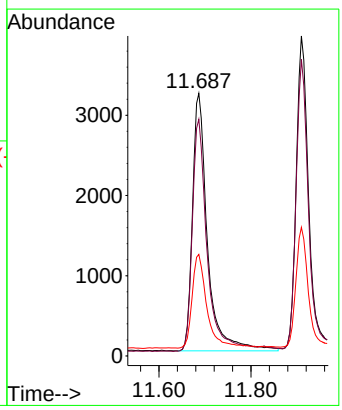


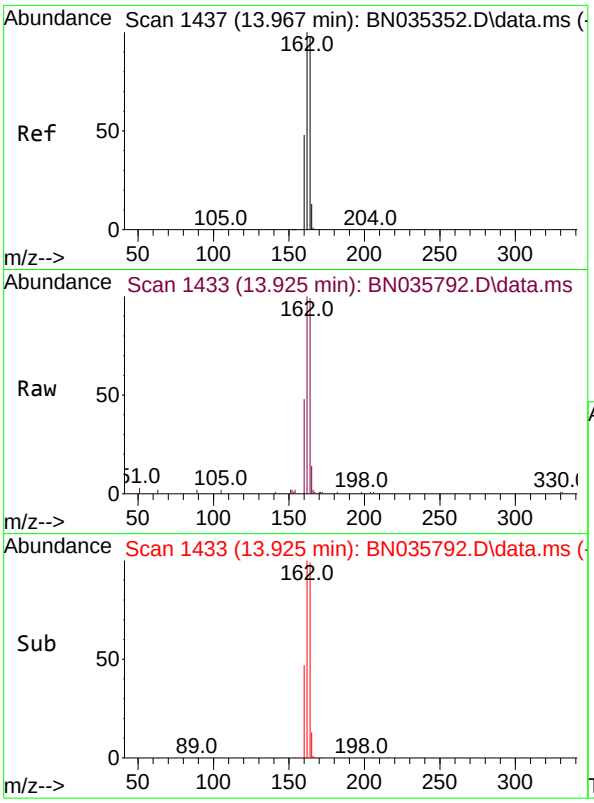


#12
2-Methylnaphthalene
Concen: 0.342 ng
RT: 11.687 min Scan# 1087
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:142 Resp: 7291

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4
115	38.7	31.4	47.0



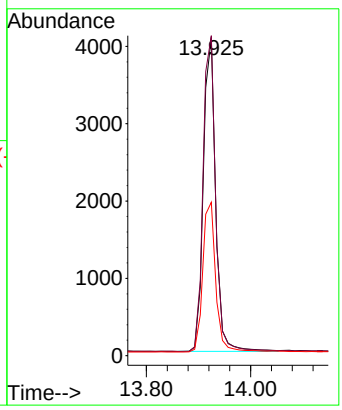


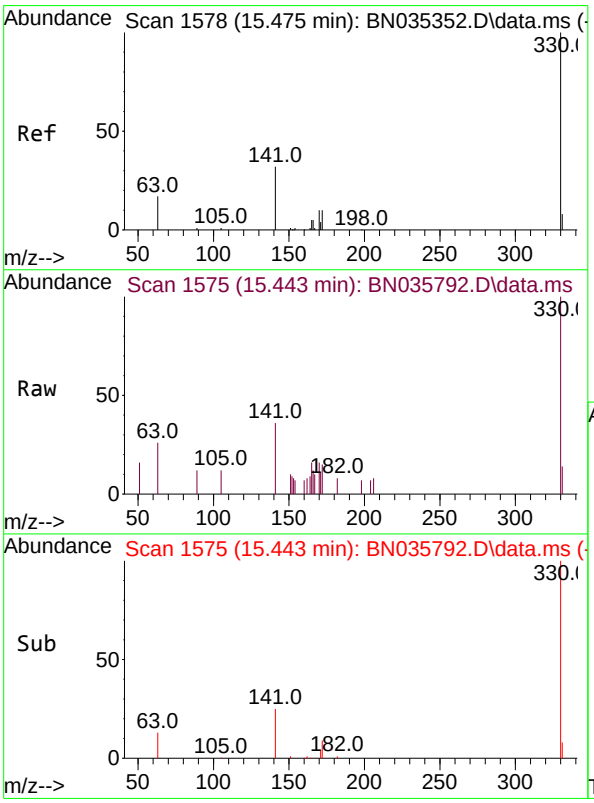
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.925 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:164 Resp: 6622

Ion	Ratio	Lower	Upper
164	100		
162	100.6	82.2	123.2
160	48.2	40.1	60.1

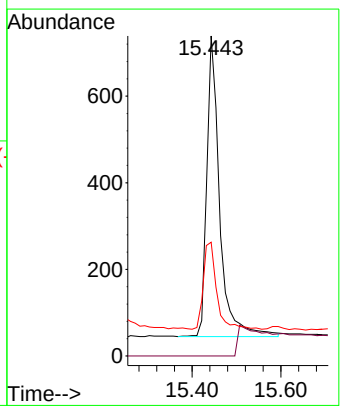


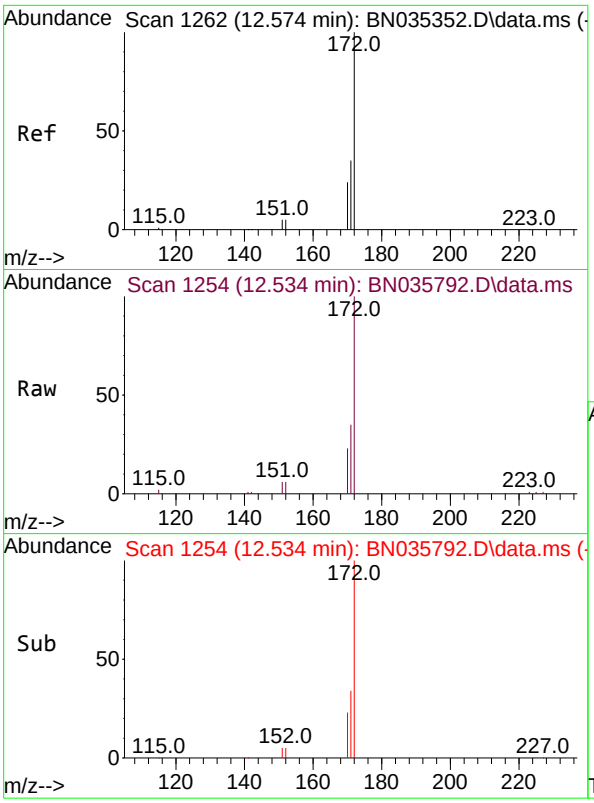


#14
2,4,6-Tribromophenol
Concen: 0.311 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:330 Resp: 1460

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	29.7	26.6	40.0



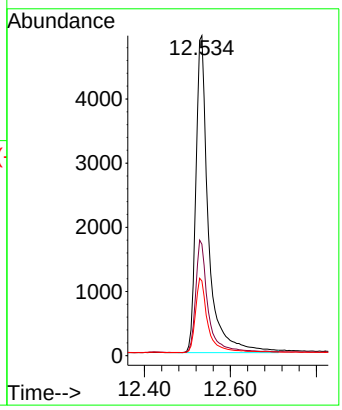


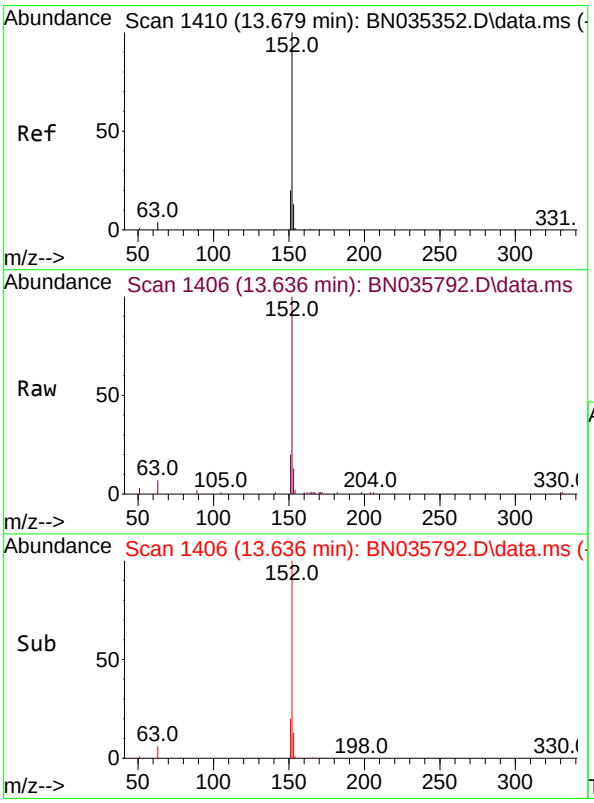
#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.534 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:172 Resp: 10050

Ion	Ratio	Lower	Upper
172	100		
171	34.8	29.0	43.4
170	23.3	19.8	29.8

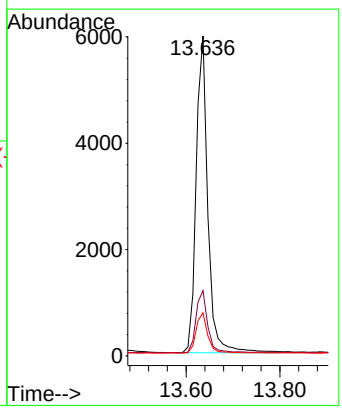


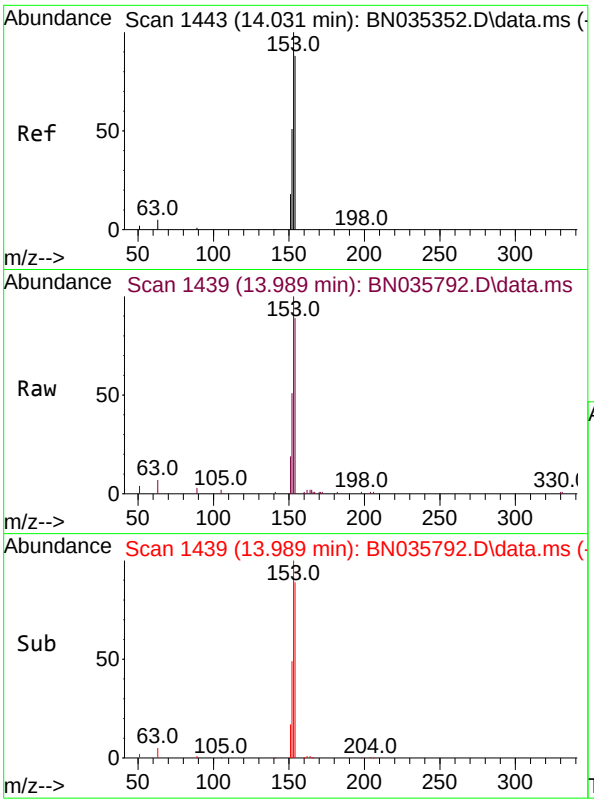


#16
Acenaphthylene
Concen: 0.371 ng
RT: 13.636 min Scan# 1406
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:152 Resp: 10309

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	12.9	10.4	15.6



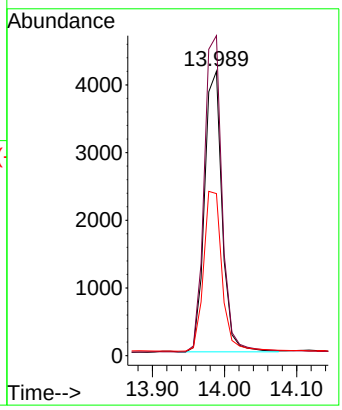


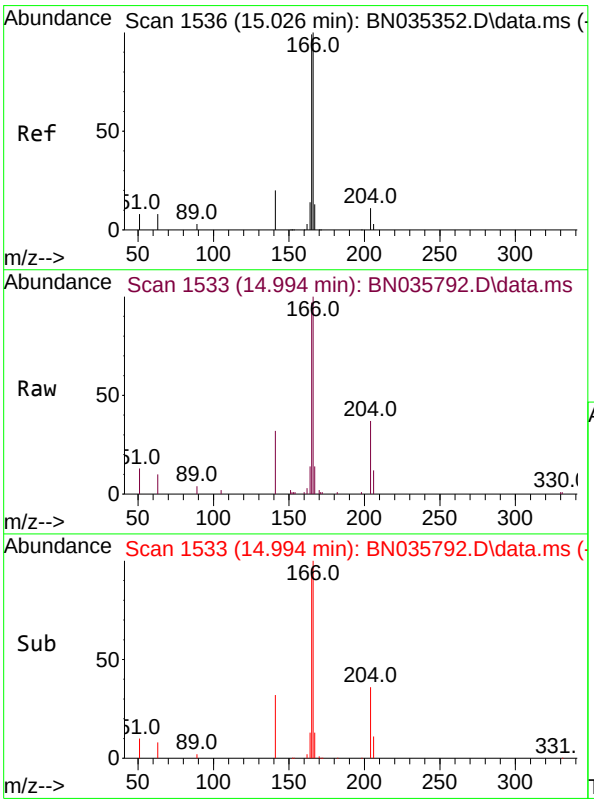
#17
Acenaphthene
Concen: 0.382 ng
RT: 13.989 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:154 Resp: 7045

Ion	Ratio	Lower	Upper
154	100		
153	115.6	92.6	139.0
152	60.1	49.0	73.6

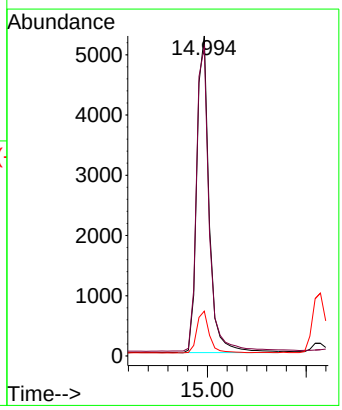


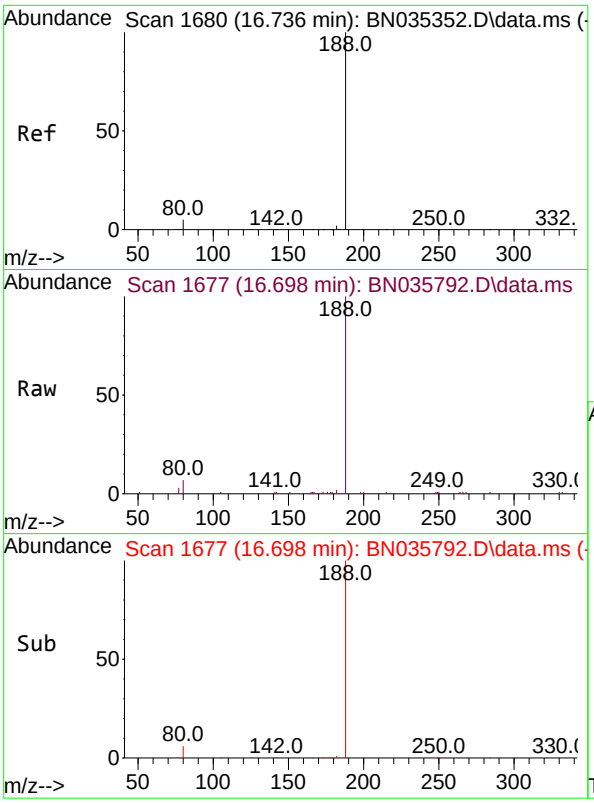


#18
Fluorene
Concen: 0.346 ng
RT: 14.994 min Scan# 1533
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:166 Resp: 9147

Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.7	119.5
167	13.4	10.8	16.2



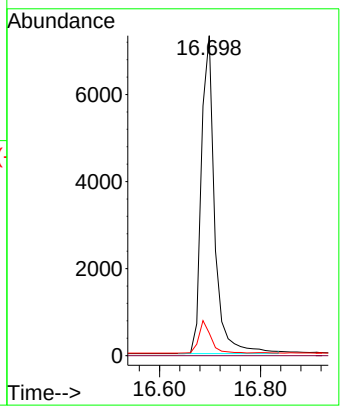


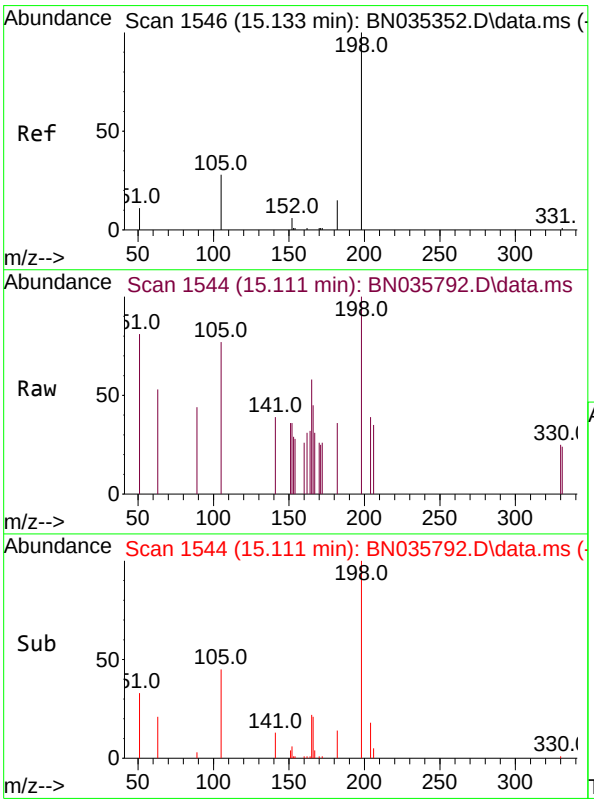
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 13445

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.1	4.6	6.8#

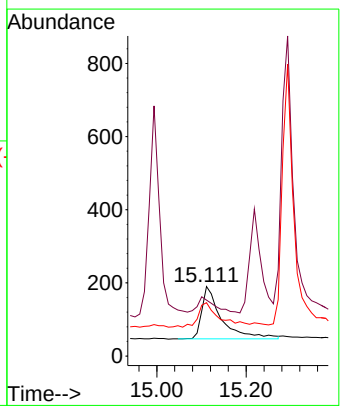


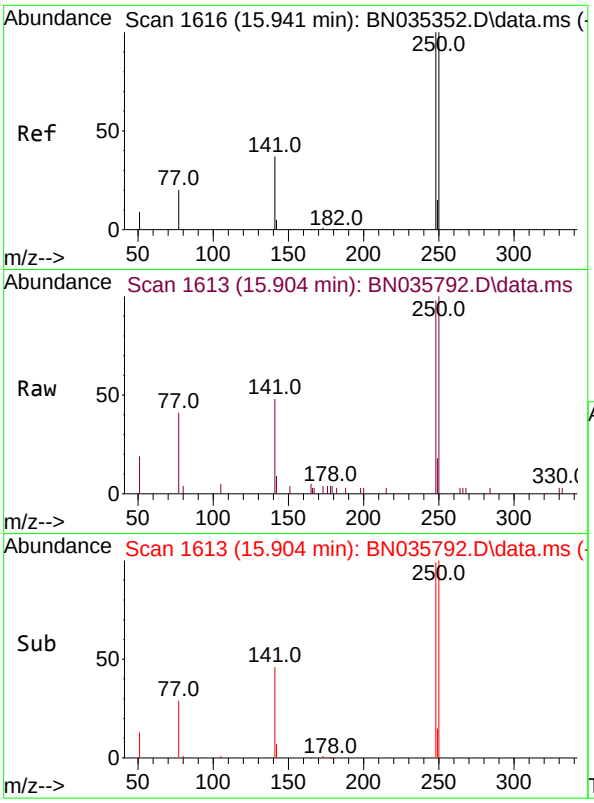


#20
4,6-Dinitro-2-methylphenol
Concen: 0.334 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:198 Resp: 441

Ion	Ratio	Lower	Upper
198	100		
51	80.5	46.5	69.7#
105	76.8	45.3	67.9#



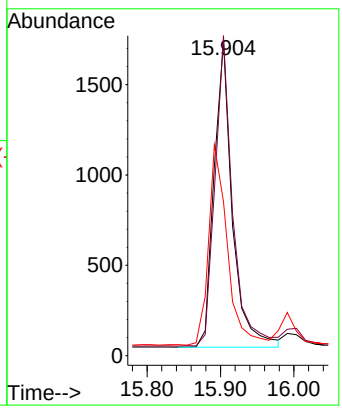


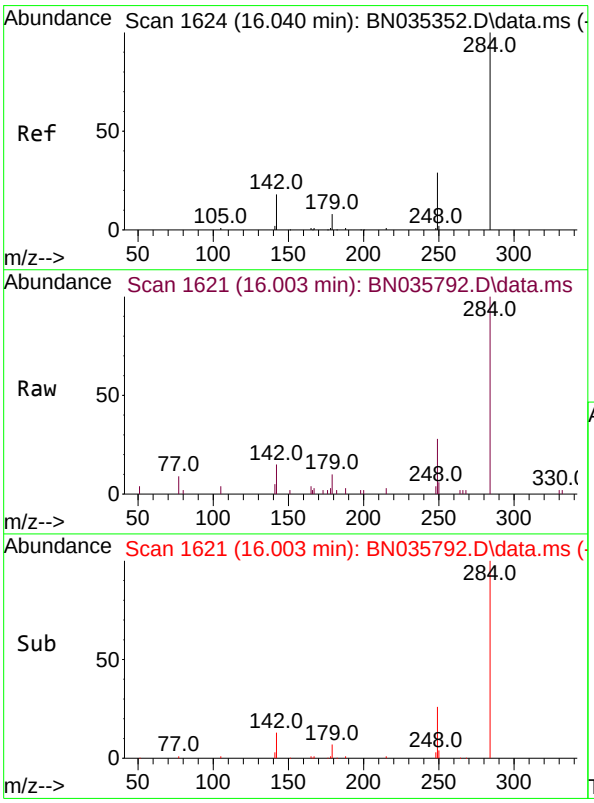
#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:248 Resp: 2928

Ion	Ratio	Lower	Upper
248	100		
250	101.5	80.6	120.8
141	48.9	31.5	47.3#

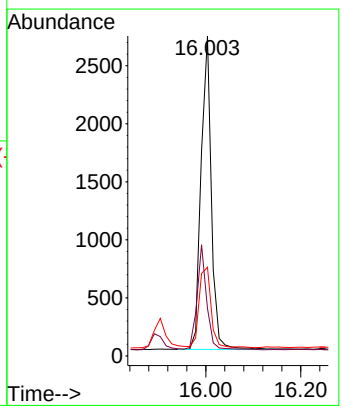


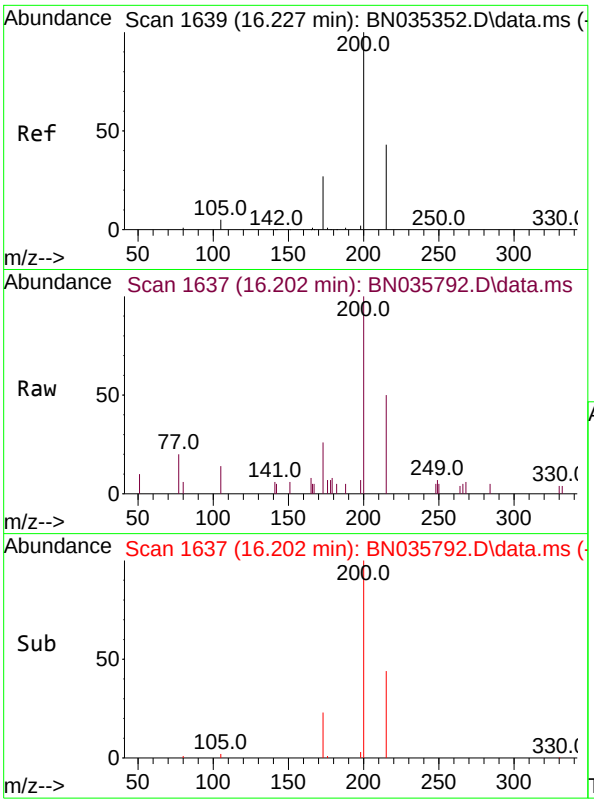


#22
Hexachlorobenzene
Concen: 0.442 ng
RT: 16.003 min Scan# 1621
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:284 Resp: 4080

Ion	Ratio	Lower	Upper
284	100		
142	31.0	26.7	40.1
249	30.0	24.6	36.8



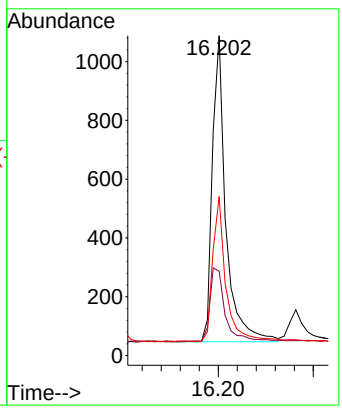


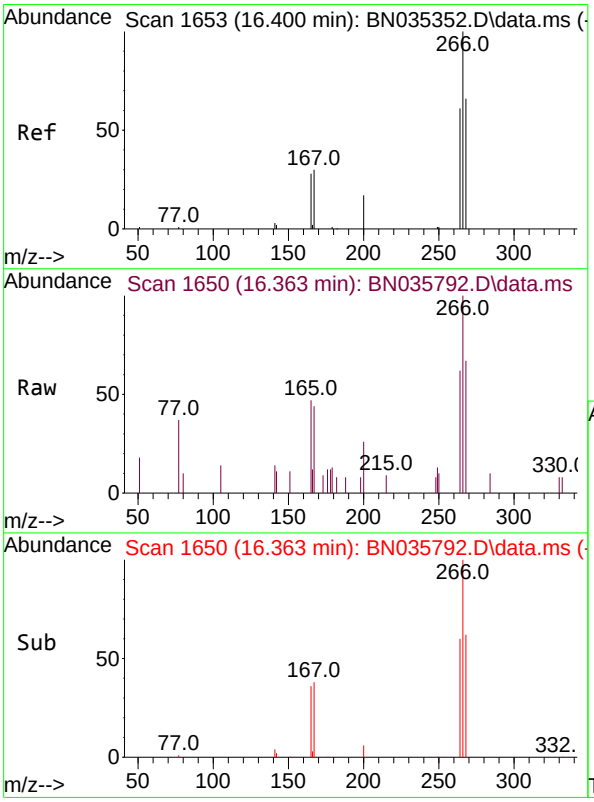
#23
Atrazine
Concen: 0.366 ng
RT: 16.202 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 2050

Ion	Ratio	Lower	Upper
200	100		
173	26.4	24.1	36.1
215	49.7	36.9	55.3

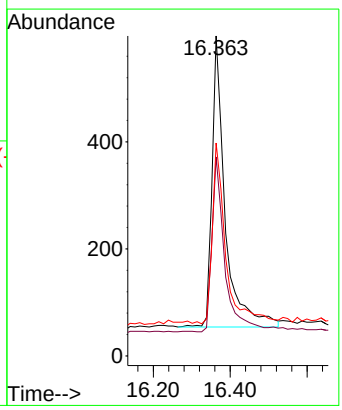


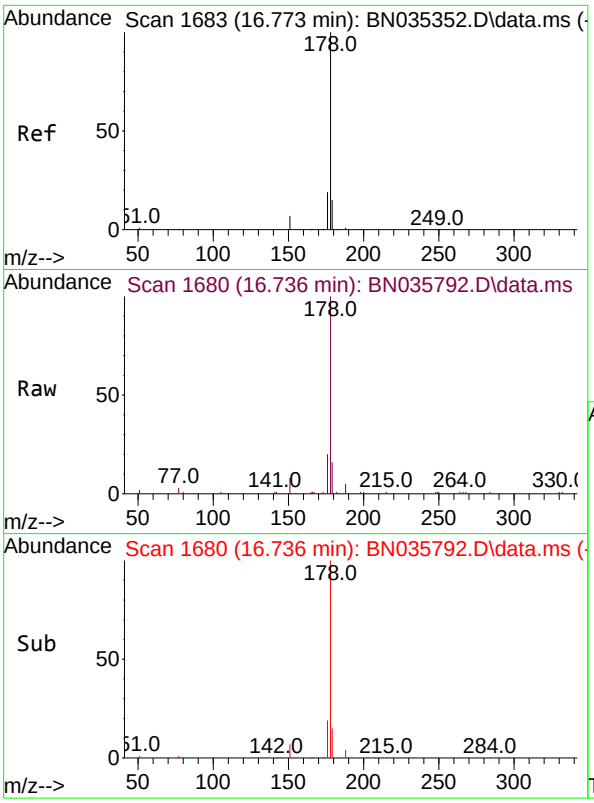


#24
Pentachlorophenol
Concen: 0.321 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:266 Resp: 1288

Ion	Ratio	Lower	Upper
266	100		
264	59.5	42.3	63.5
268	62.8	43.3	64.9



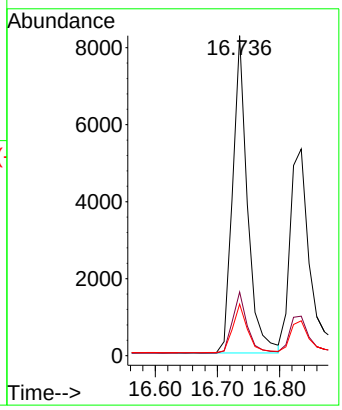


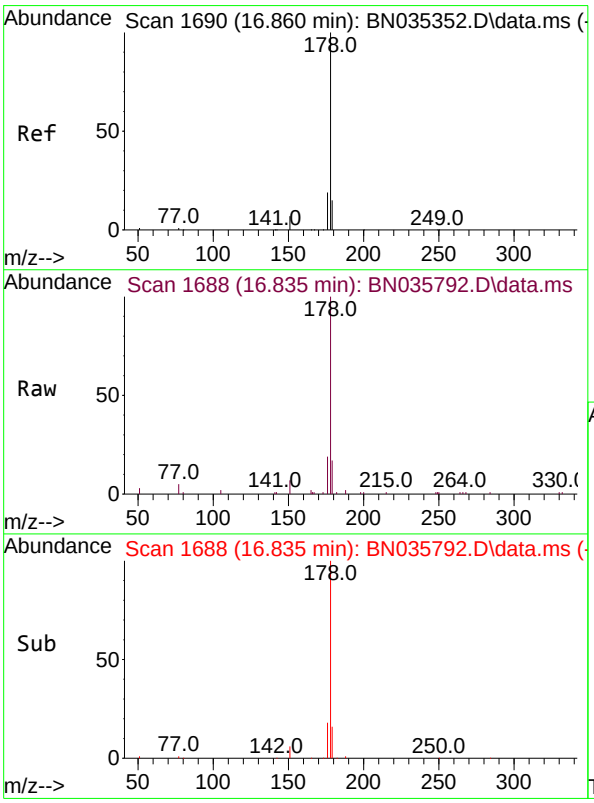
#25
Phenanthrene
Concen: 0.370 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 13655

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.3	18.5

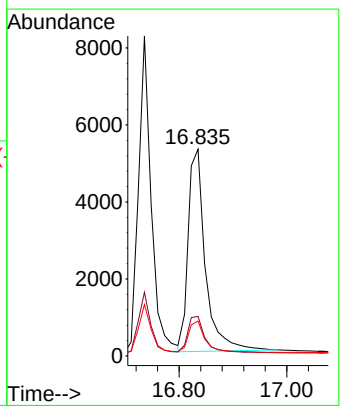


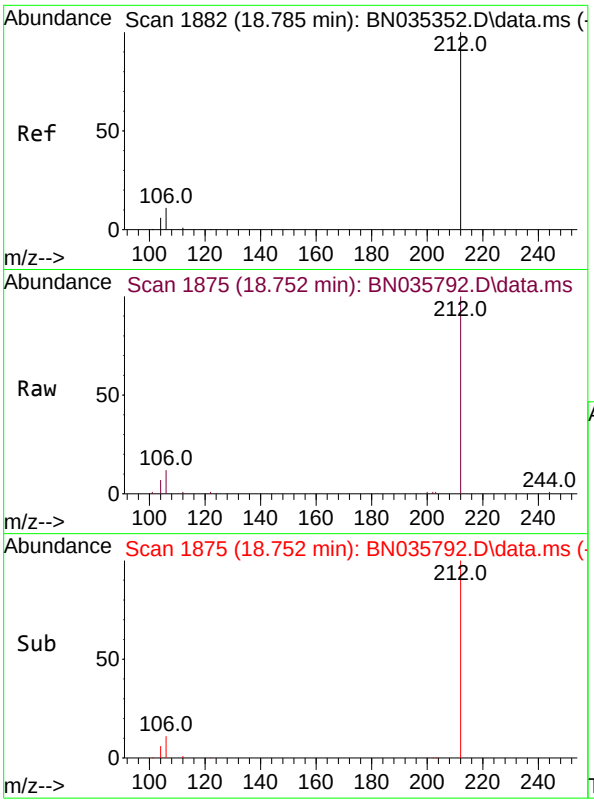


#26
Anthracene
Concen: 0.350 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:178 Resp: 11693

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.4	12.6	18.8



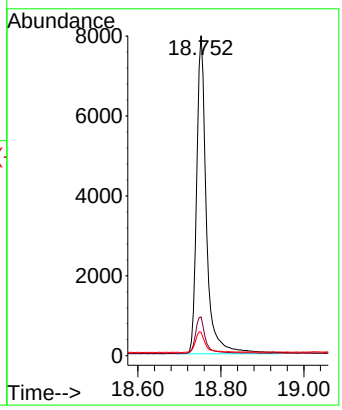


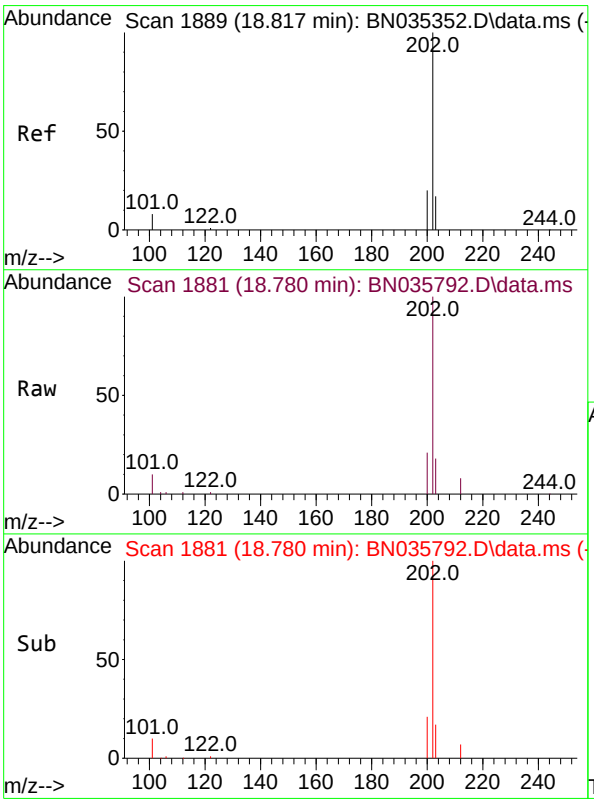
#27
Fluoranthene-d10
Concen: 0.343 ng
RT: 18.752 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:212 Resp: 13067

Ion	Ratio	Lower	Upper
212	100		
106	11.4	9.2	13.8
104	6.6	5.3	7.9

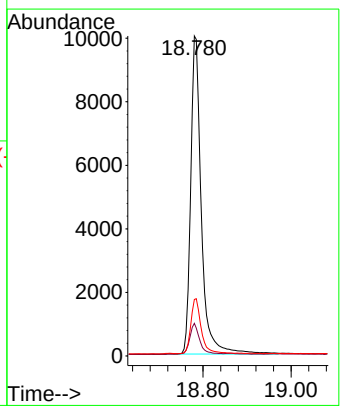


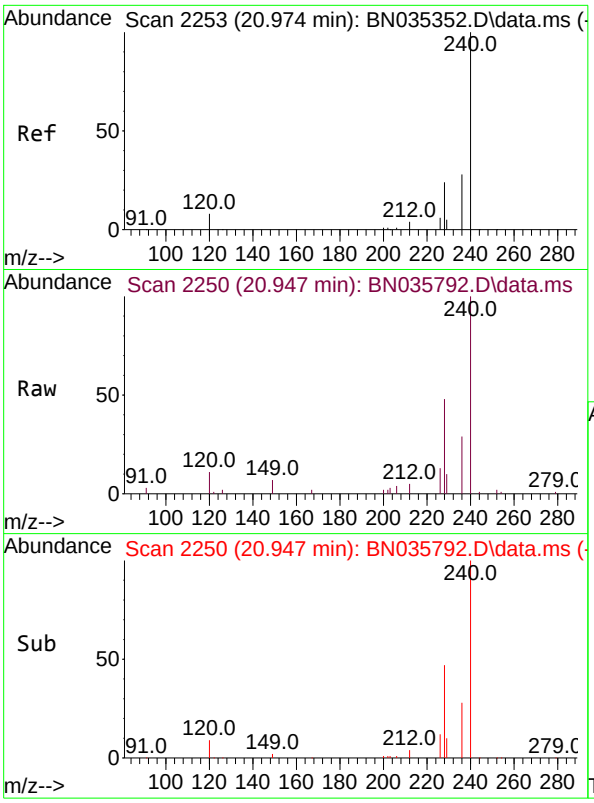


#28
Fluoranthene
Concen: 0.337 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 16797

Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.4	11.0
203	16.9	13.7	20.5



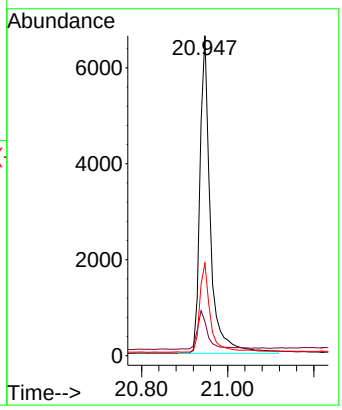


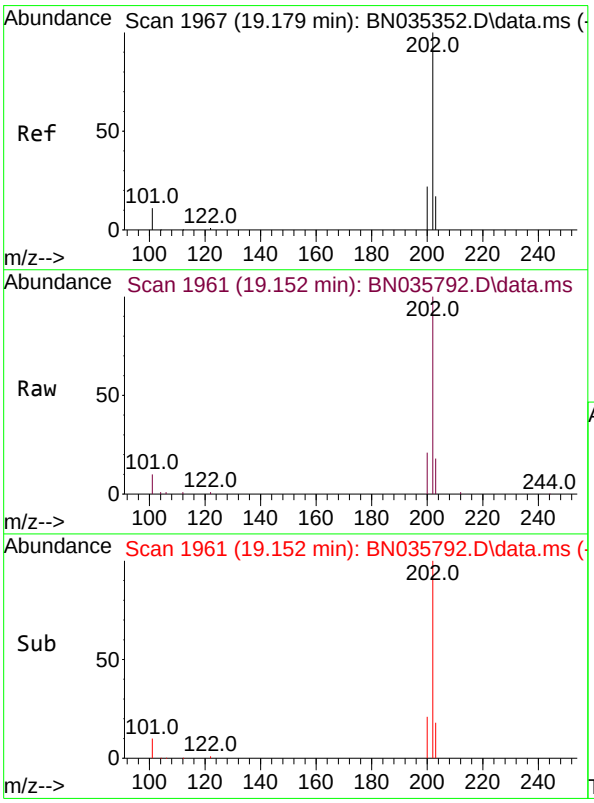
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:240 Resp: 11173

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.9	11.9
236	28.9	22.9	34.3

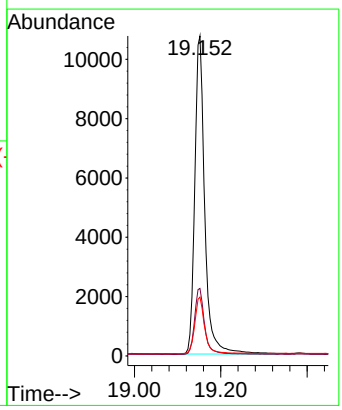


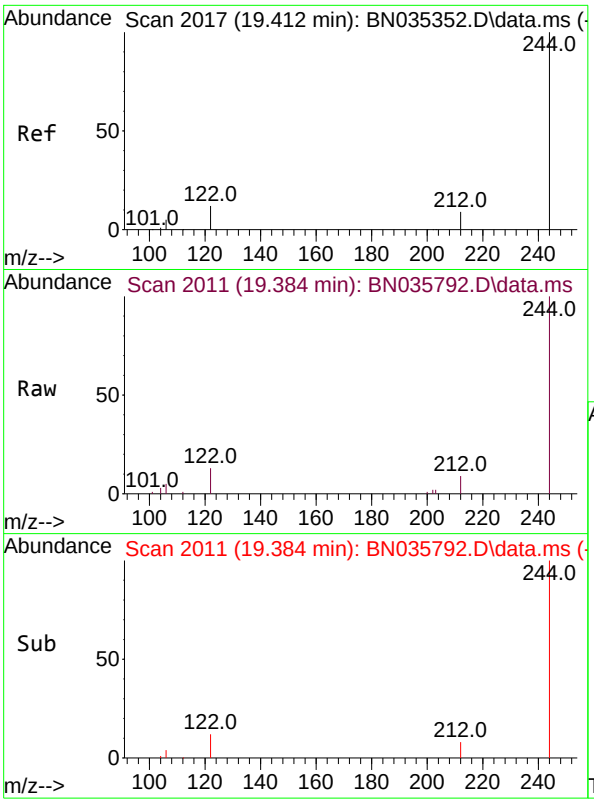


#30
Pyrene
Concen: 0.416 ng
RT: 19.152 min Scan# 1961
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:202 Resp: 17165

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.8	14.3	21.5



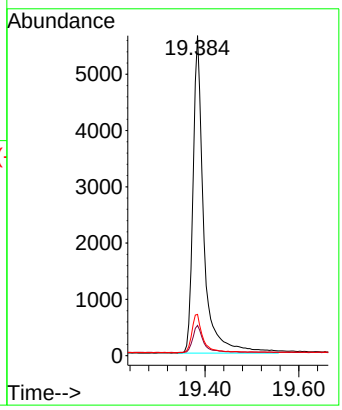


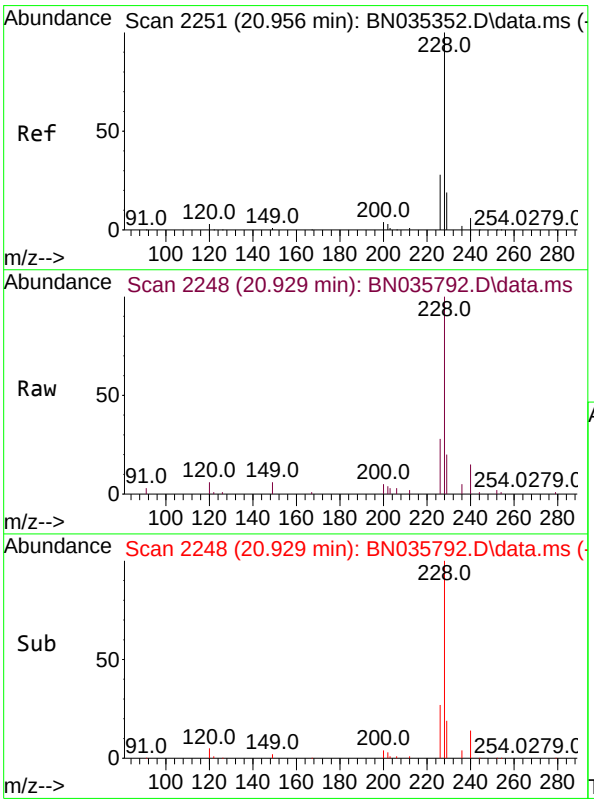
#31
Terphenyl-d14
Concen: 0.409 ng
RT: 19.384 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:244 Resp: 9007

Ion	Ratio	Lower	Upper
244	100		
212	9.4	8.1	12.1
122	12.9	10.3	15.5

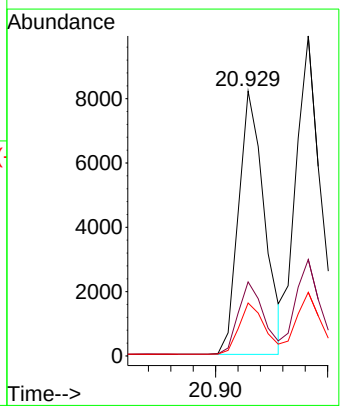


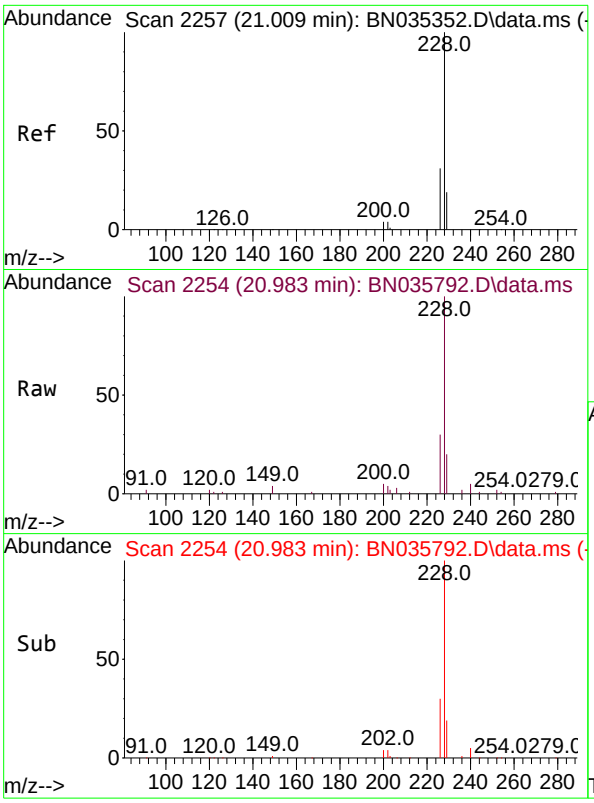


#32
Benzo(a)anthracene
Concen: 0.336 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:228 Resp: 13119

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.5	33.7
229	20.0	15.8	23.8



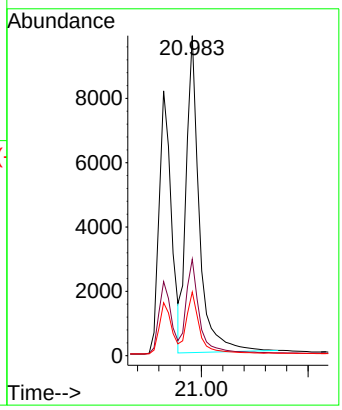


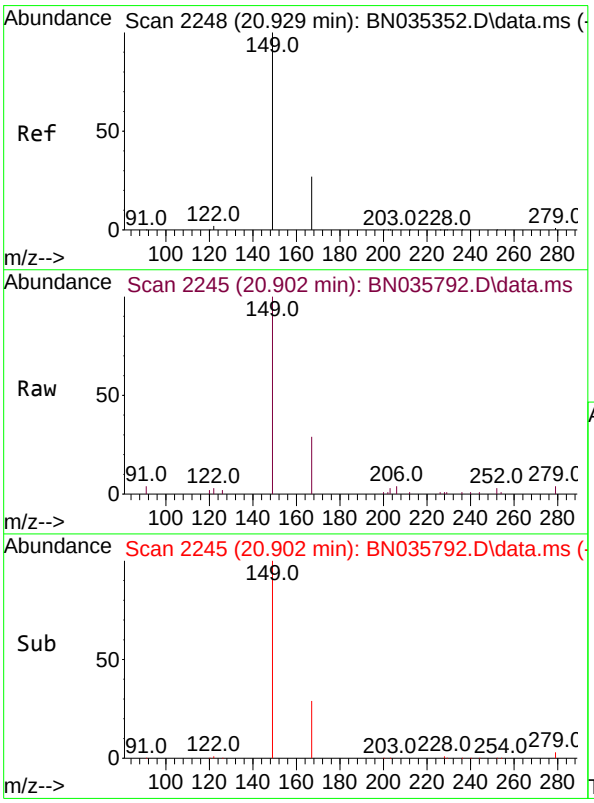
#33
Chrysene
Concen: 0.415 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:228 Resp: 16717

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	19.9	15.9	23.9

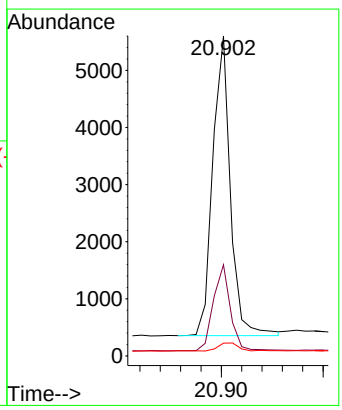


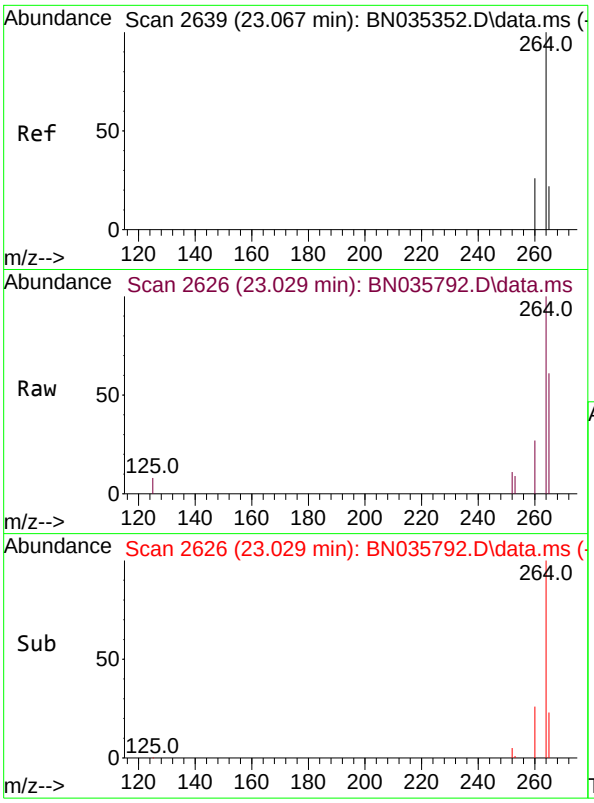


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 20.902 min Scan# 2245
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:149 Resp: 6294

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.4
279	3.3	2.7	4.1



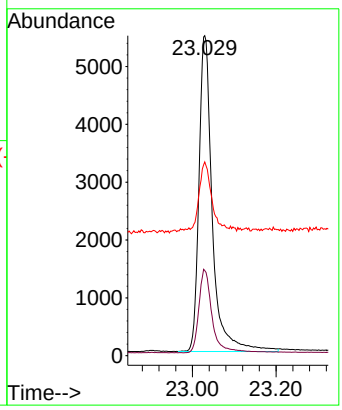


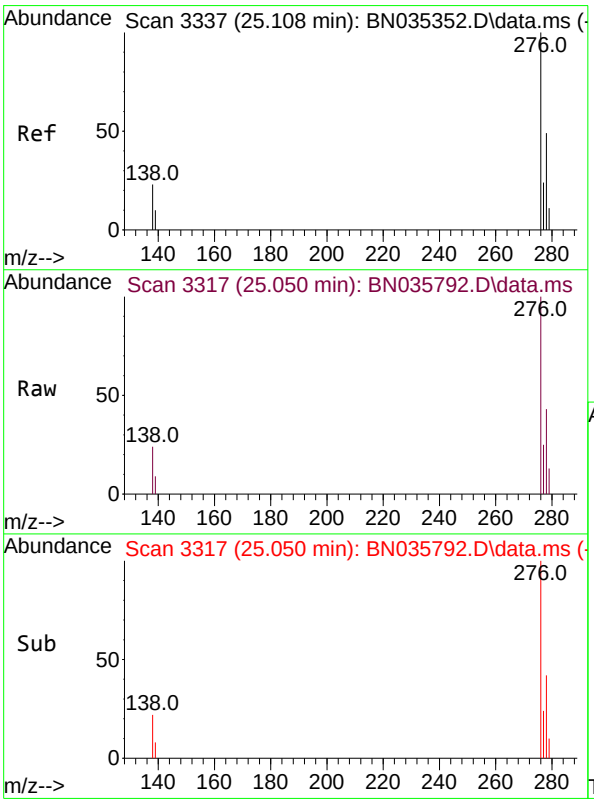
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:264 Resp: 12122

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.4	32.2
265	60.5	40.2	60.4#

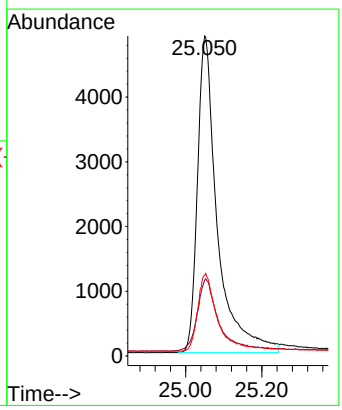


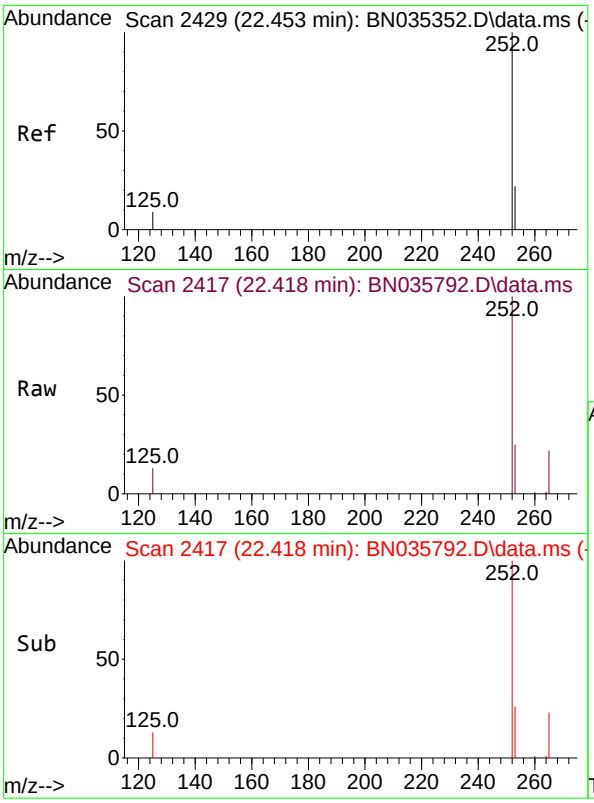


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:276 Resp: 17740

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.2	19.8	29.6



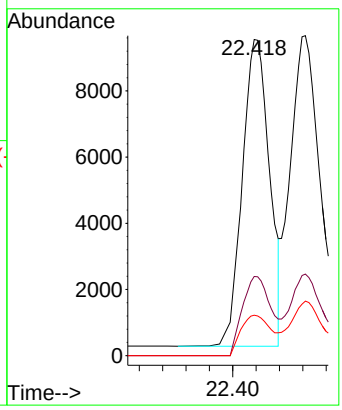


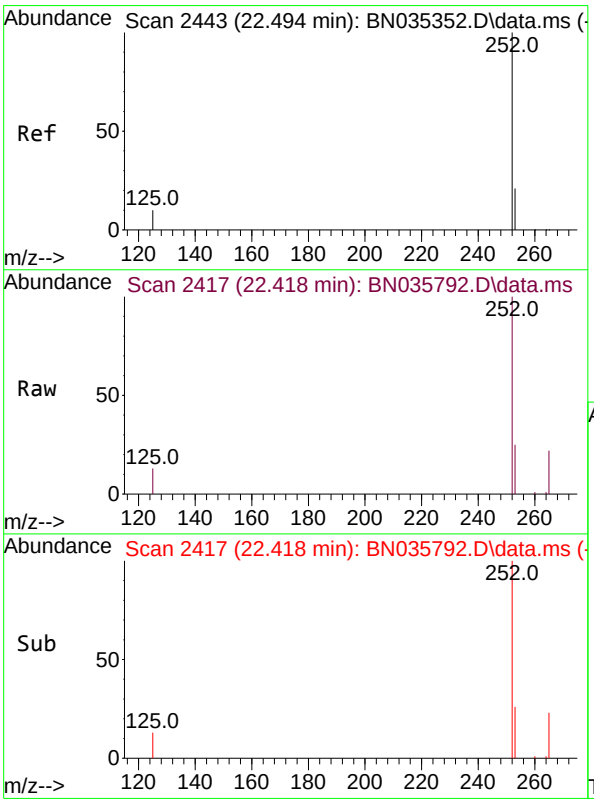
#37
Benzo(b)fluoranthene
Concen: 0.539 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 23904

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.6	29.4
125	12.8	9.6	14.4

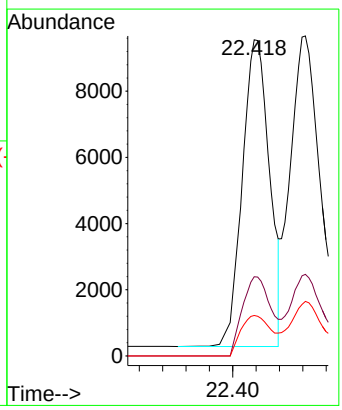


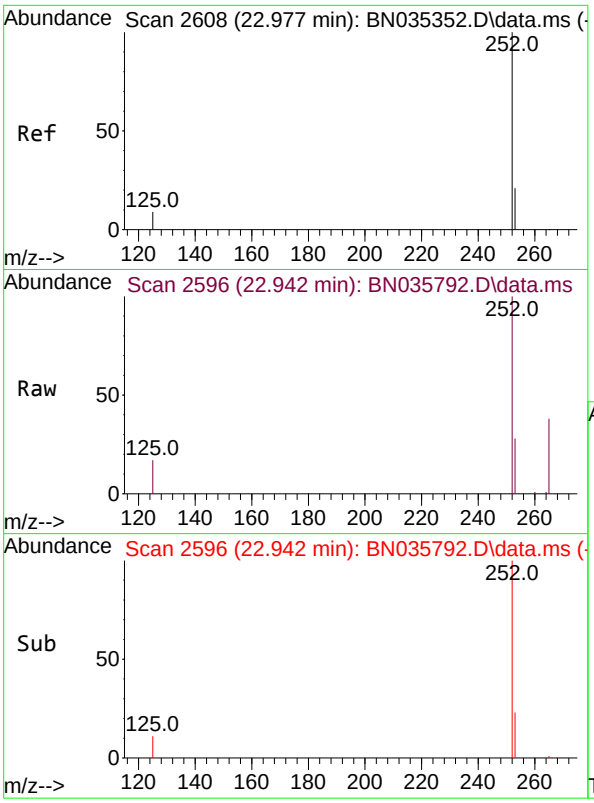


#38
Benzo(k)fluoranthene
Concen: 0.548 ng
RT: 22.418 min Scan# 2417
Delta R.T. -0.053 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:252 Resp: 23904

Ion	Ratio	Lower	Upper
252	100		
253	25.0	19.5	29.3
125	12.8	10.2	15.4



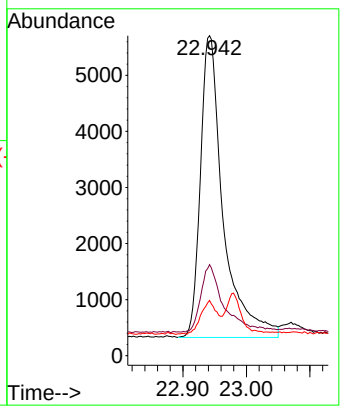


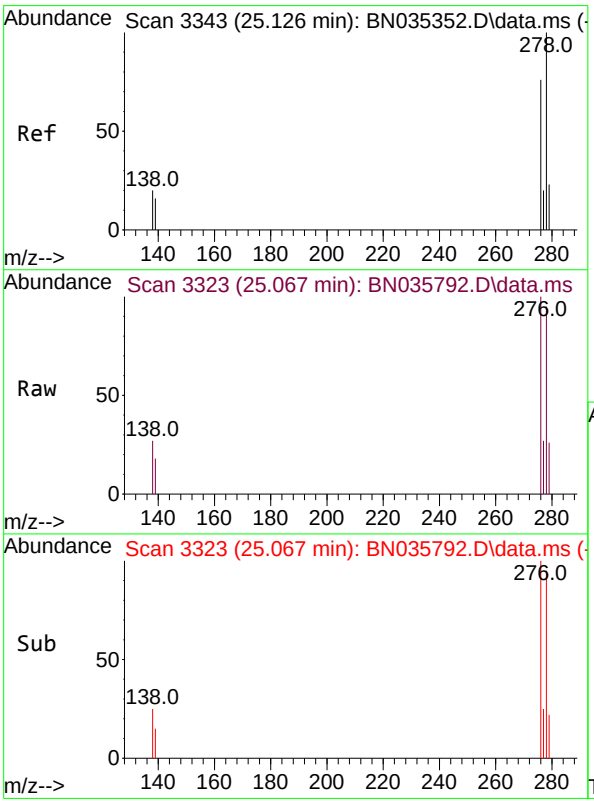
#39
Benzo(a)pyrene
Concen: 0.366 ng
RT: 22.942 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 13375

Ion	Ratio	Lower	Upper
252	100		
253	28.5	20.2	30.4
125	17.2	10.9	16.3#

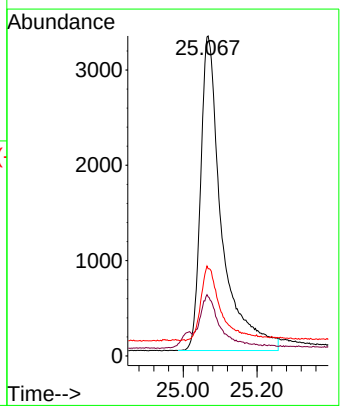


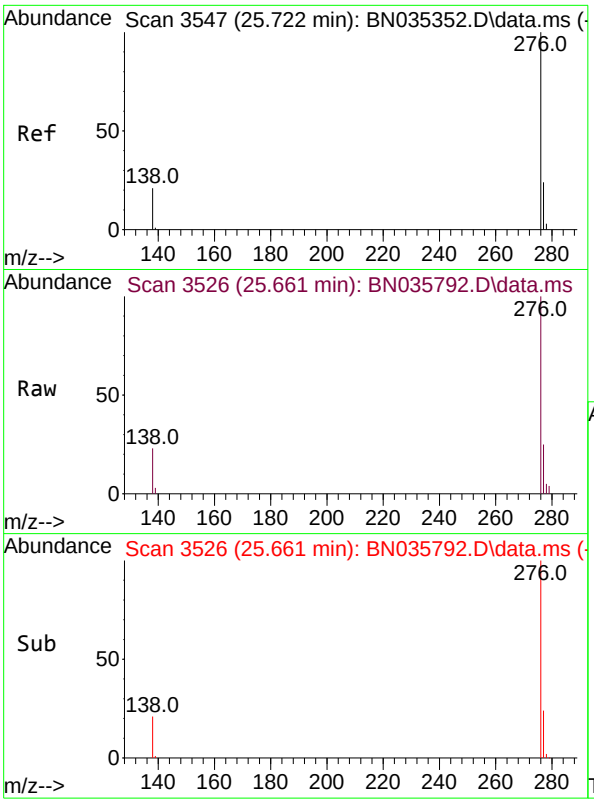


#40
Dibenzo(a,h)anthracene
Concen: 0.350 ng
RT: 25.067 min Scan# 3323
Delta R.T. -0.015 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Tgt Ion:278 Resp: 13081

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.2	21.4
279	27.2	20.5	30.7



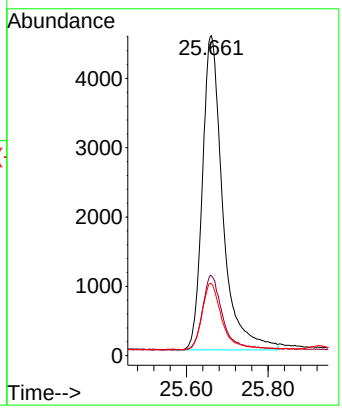


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.661 min Scan# 3
Delta R.T. -0.018 min
Lab File: BN035792.D
Acq: 23 Dec 2024 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:276 Resp: 15725

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.9	29.9
138	22.5	17.8	26.8



Quantitation Report (Not Reviewed)

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

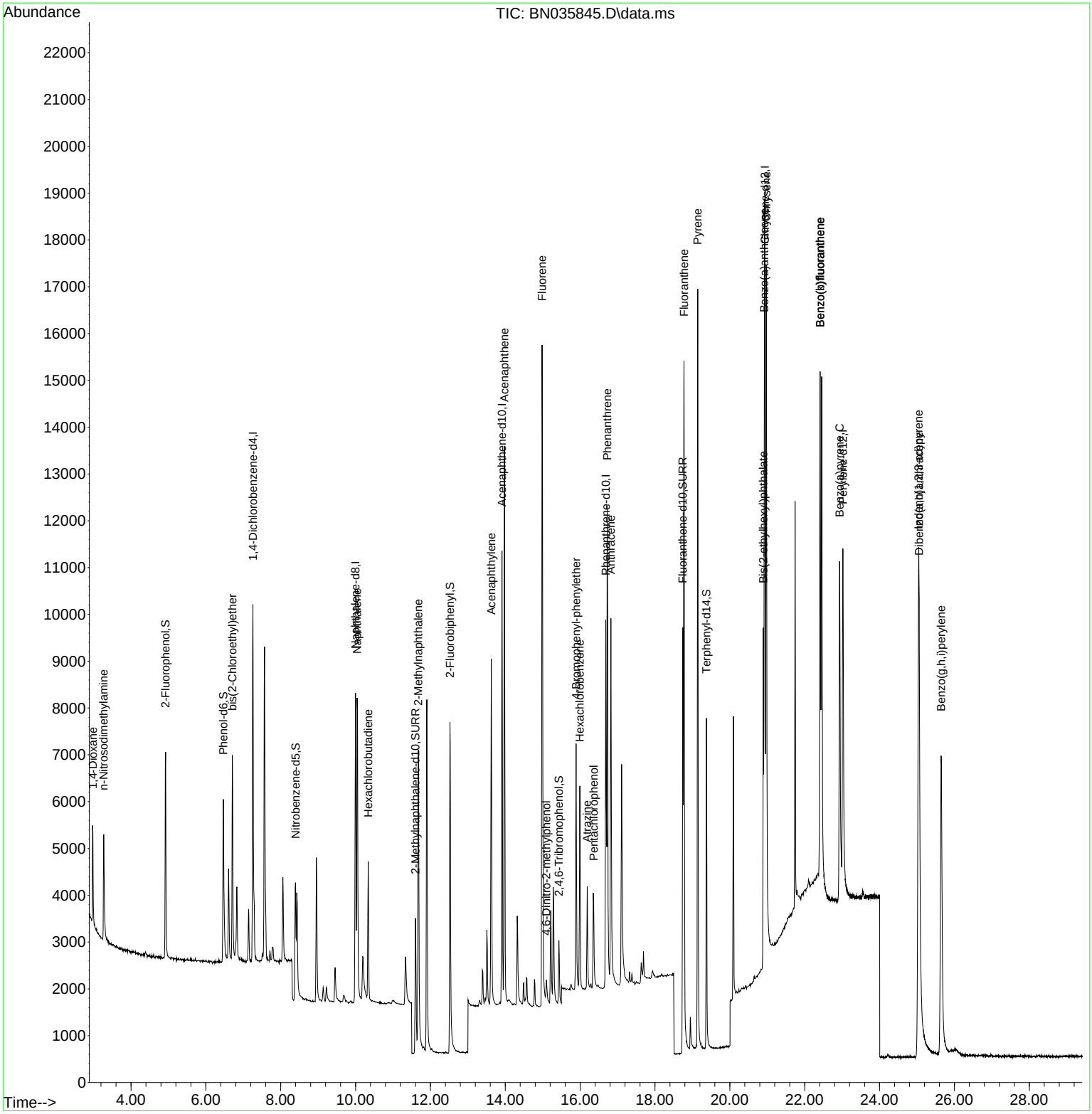
(#) = qualifier out of range (m) = manual integration (+) = signals summed

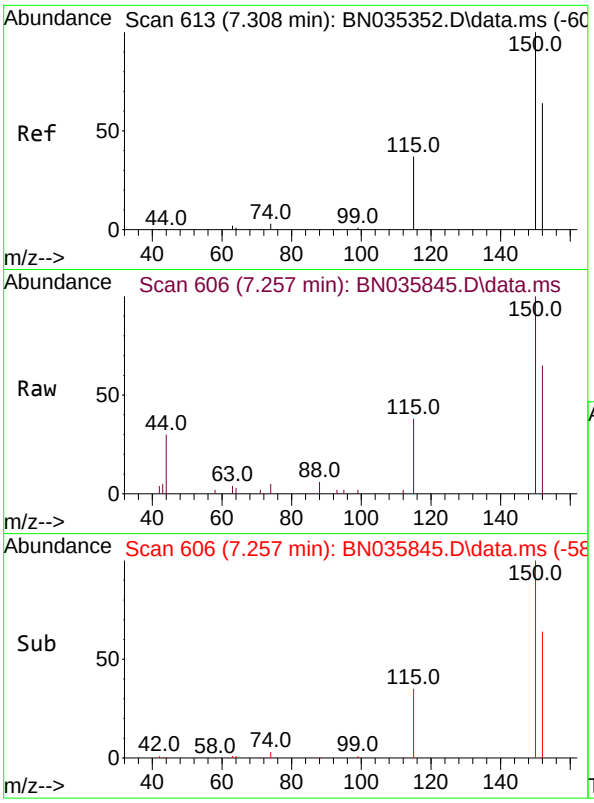
Quantitation Report (Not Reviewed)

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



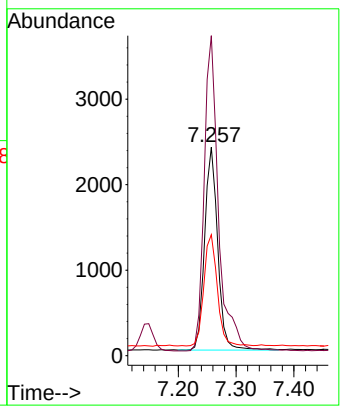


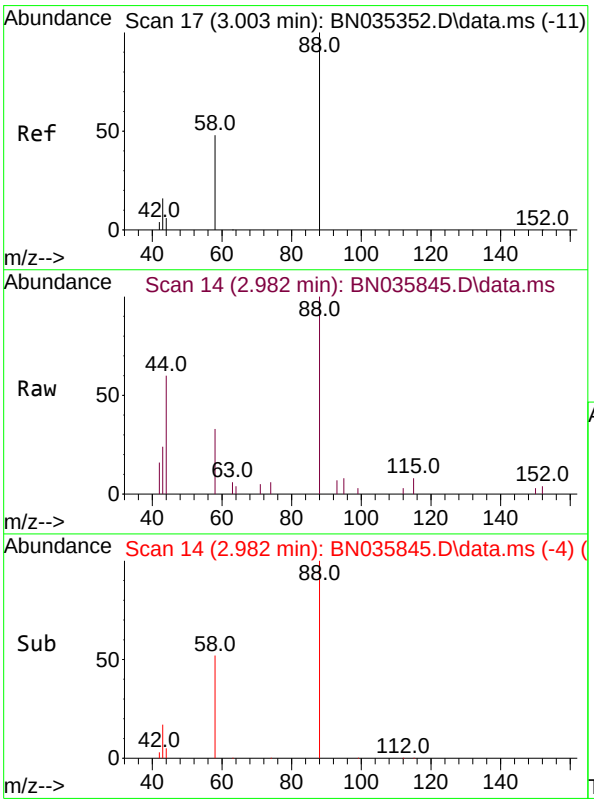
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

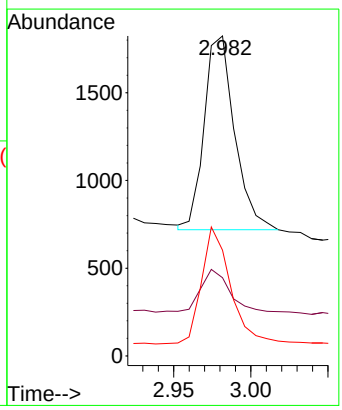


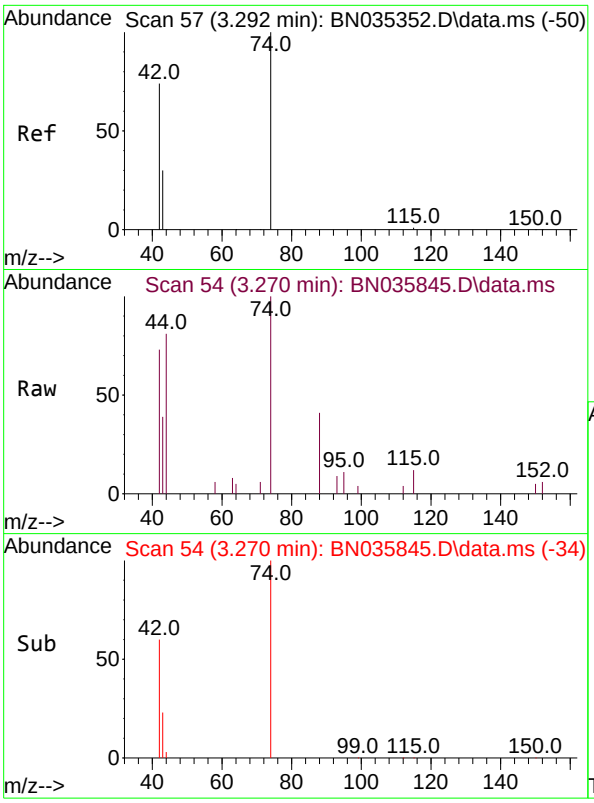


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 2.982 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



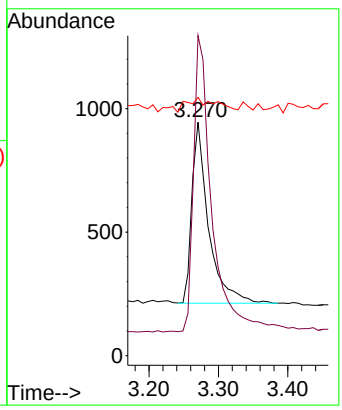


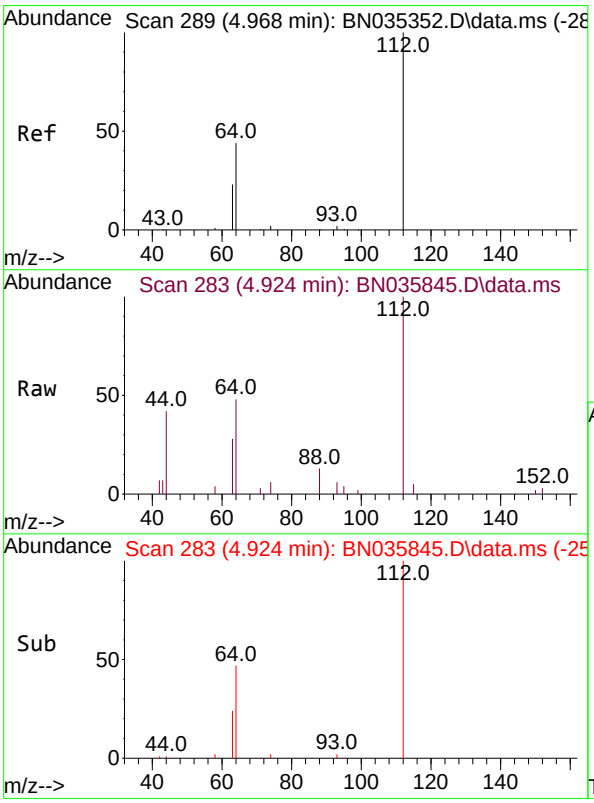
#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.270 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

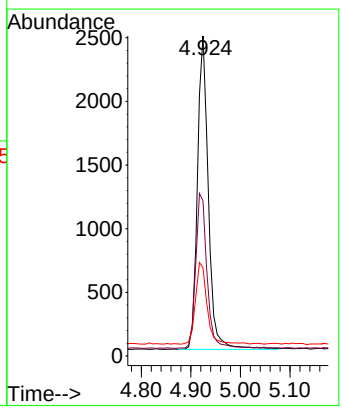


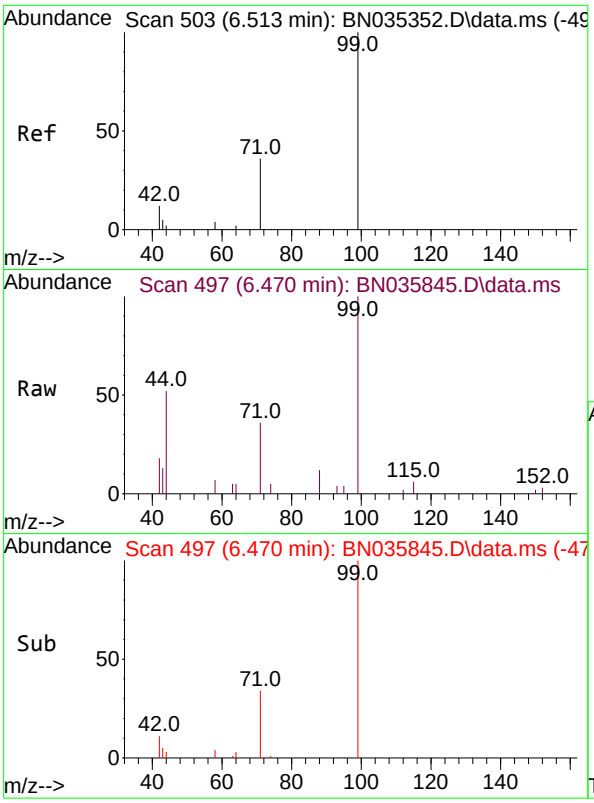


#4
2-Fluorophenol
Concen: 0.402 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



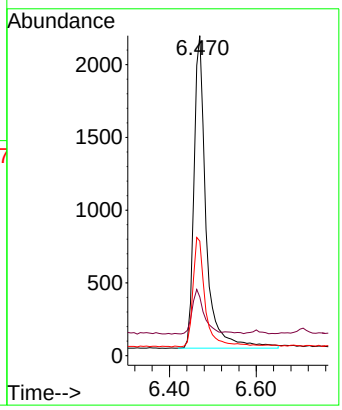


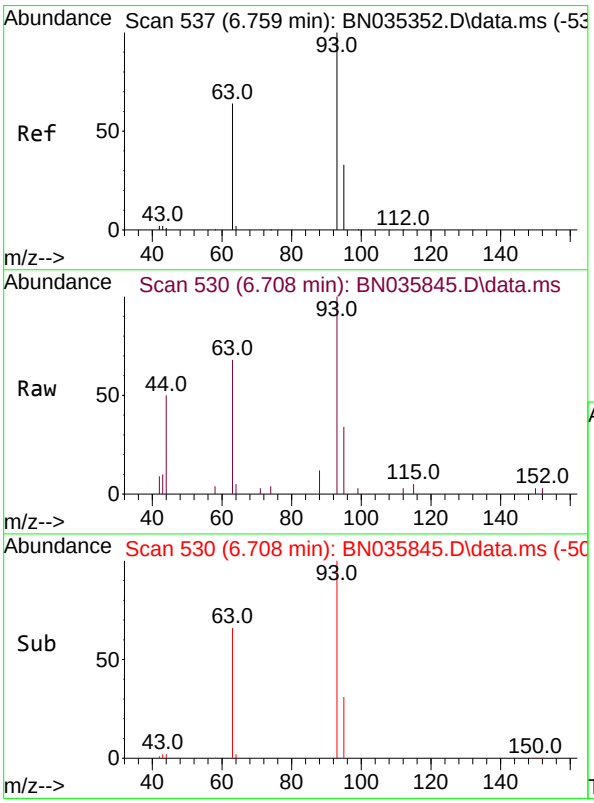
#5
Phenol-d6
Concen: 0.369 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

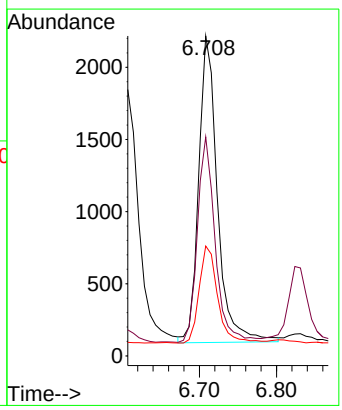


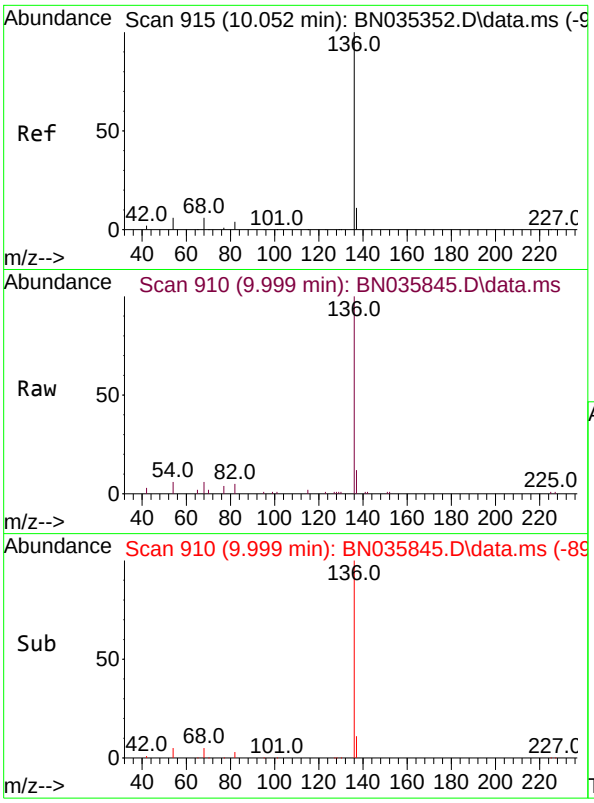


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



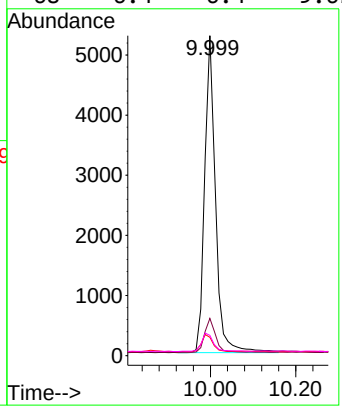


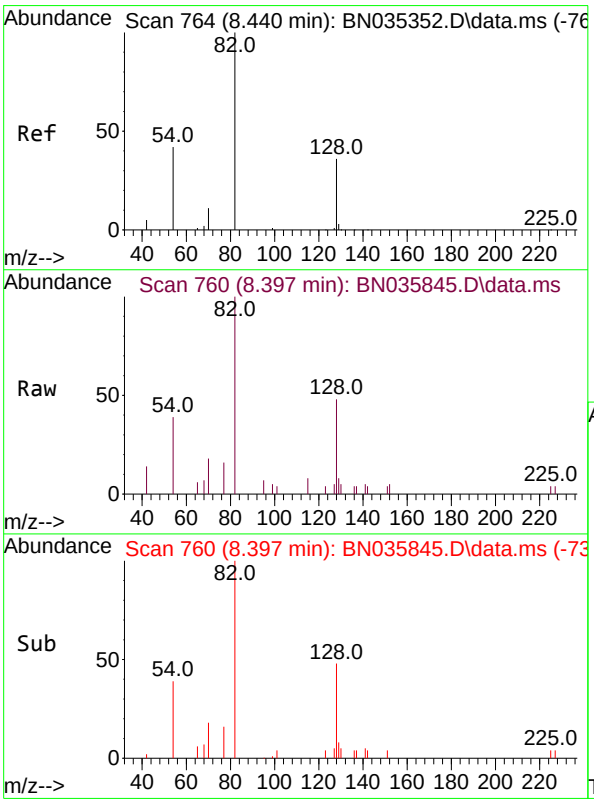
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

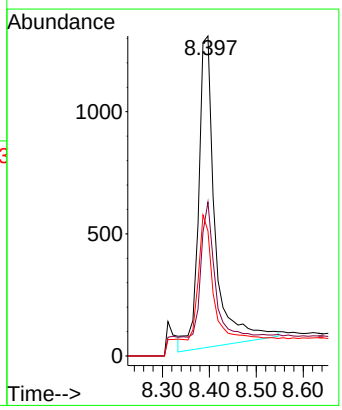


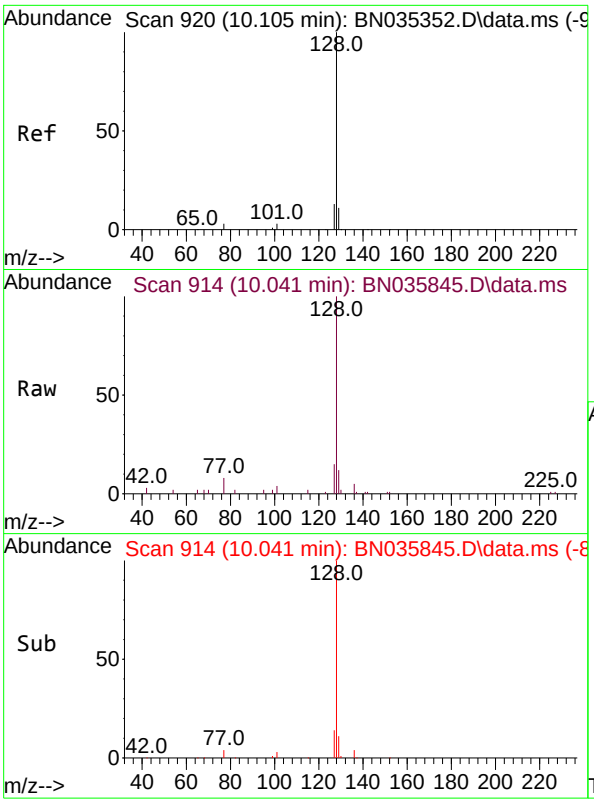


#8
Nitrobenzene-d5
Concen: 0.553 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



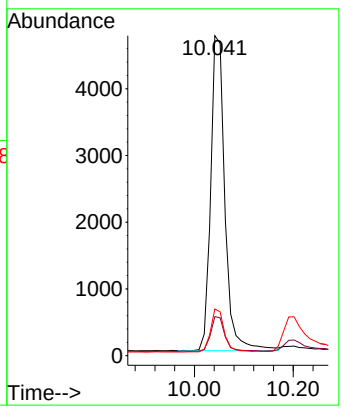


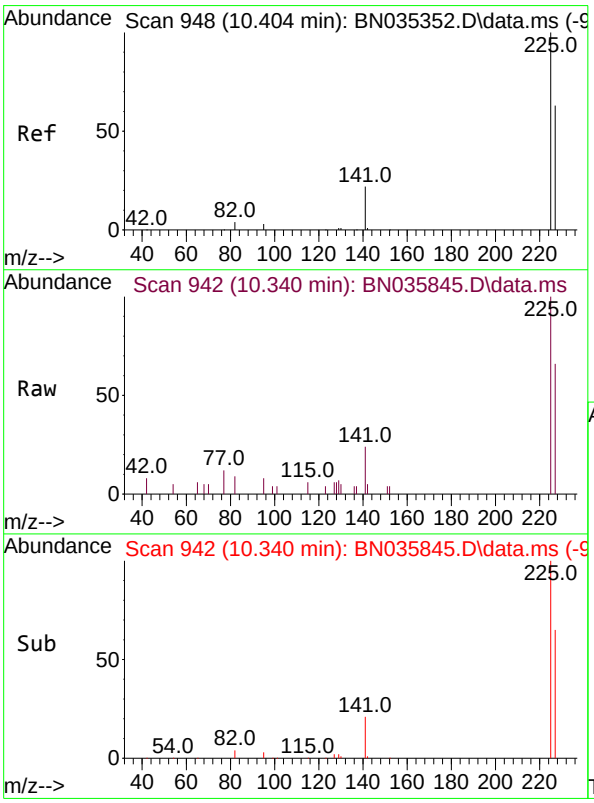
#9
Naphthalene
Concen: 0.384 ng
RT: 10.041 min Scan# 9
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

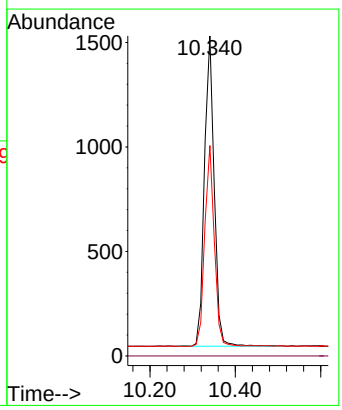


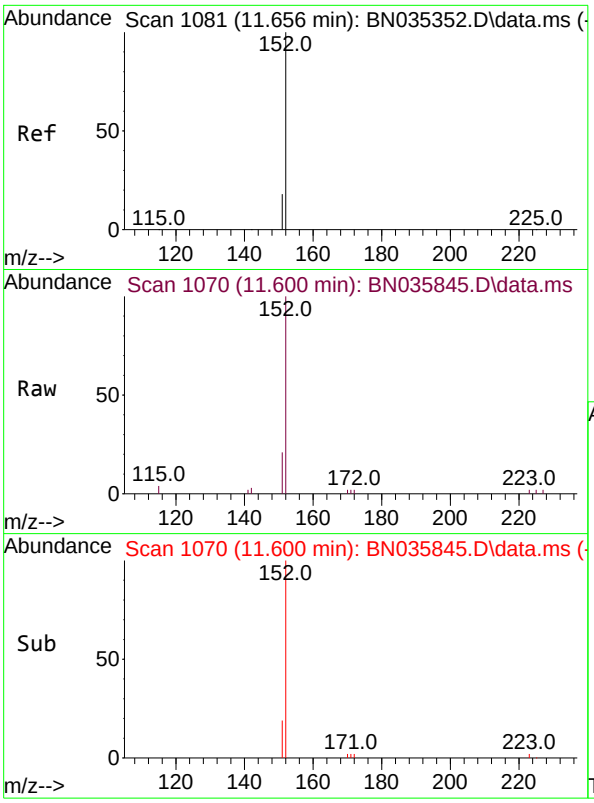


#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



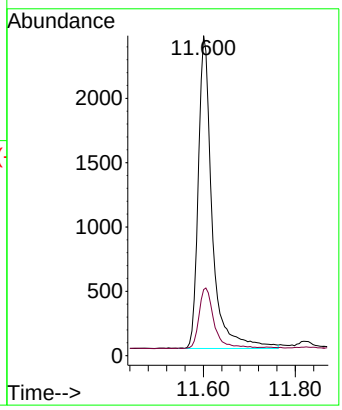


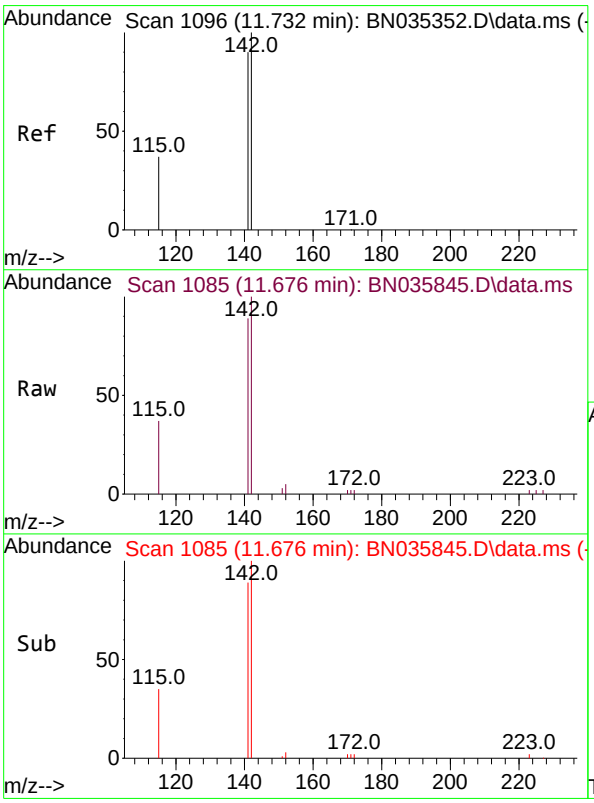
#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.600 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5080

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	25.0

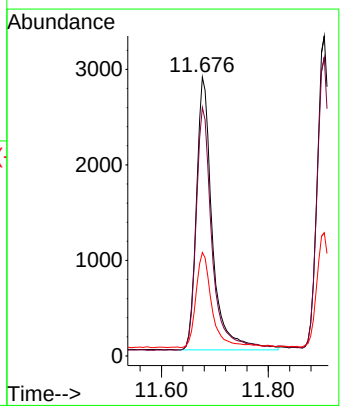


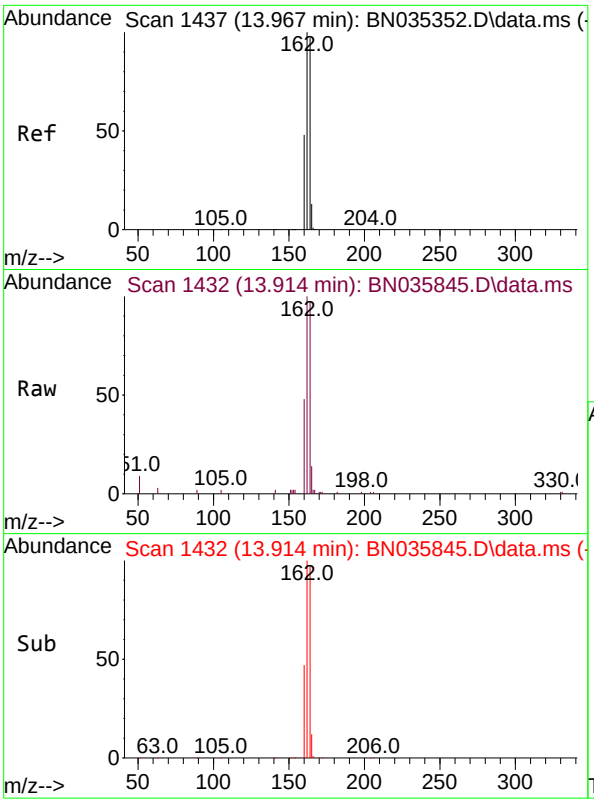


#12
2-Methylnaphthalene
Concen: 0.337 ng
RT: 11.676 min Scan# 1085
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



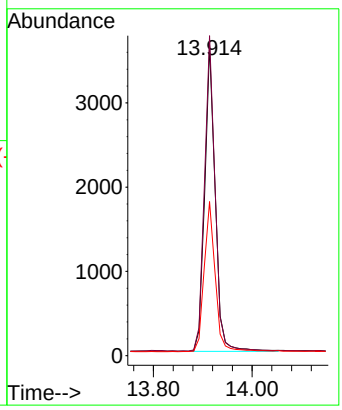


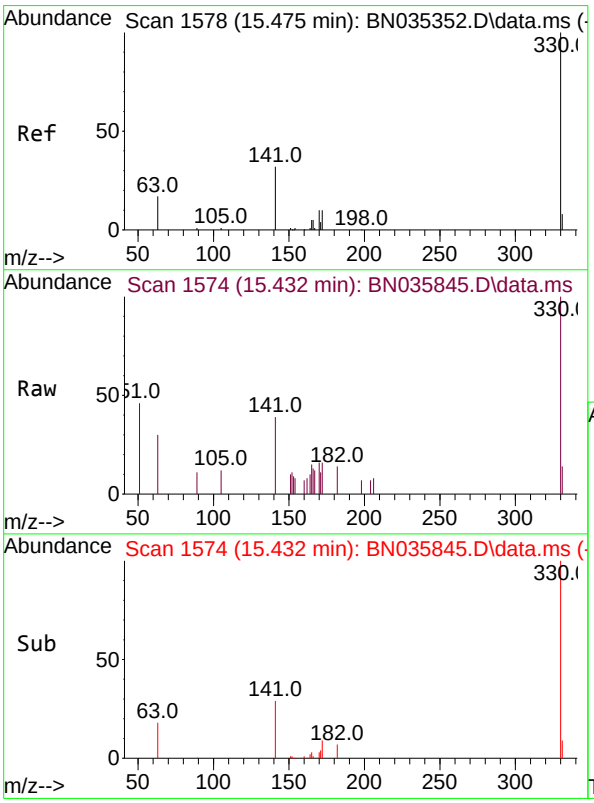
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

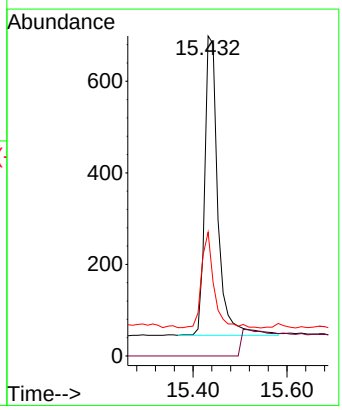


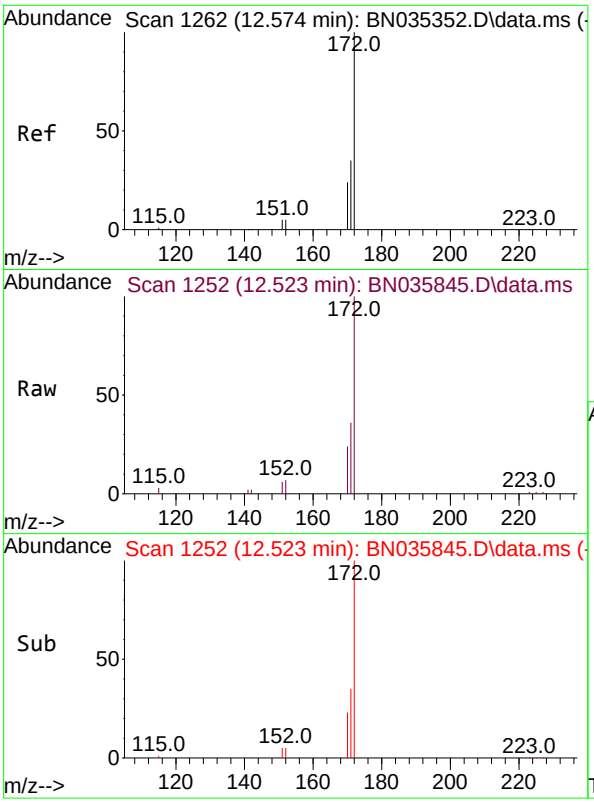


#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



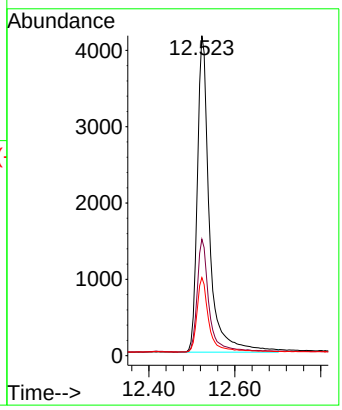


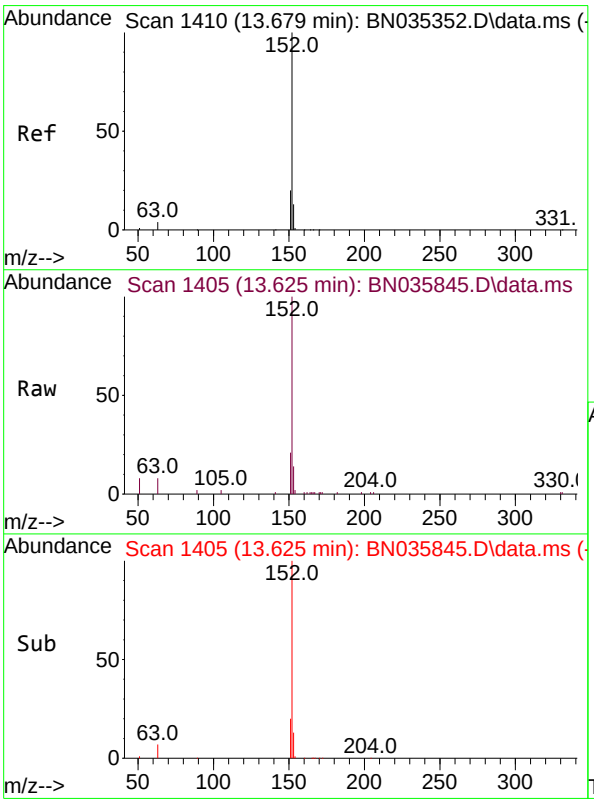
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.523 min Scan# 1
Delta R.T. -0.020 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

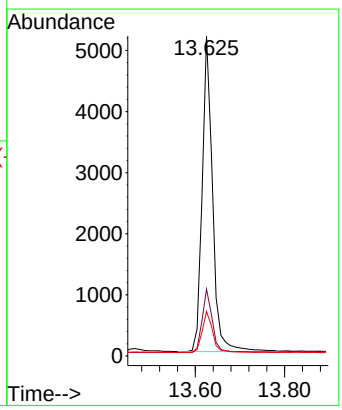


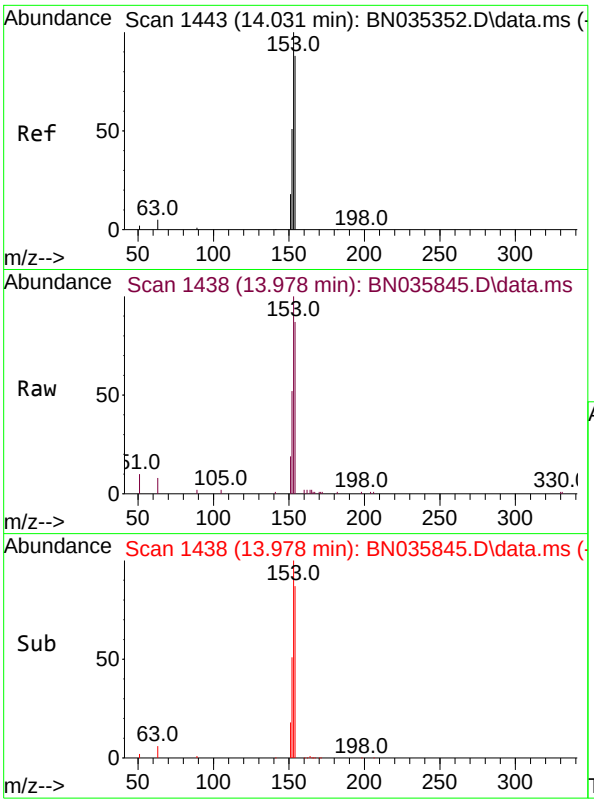


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



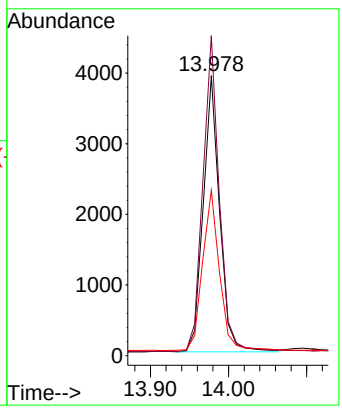


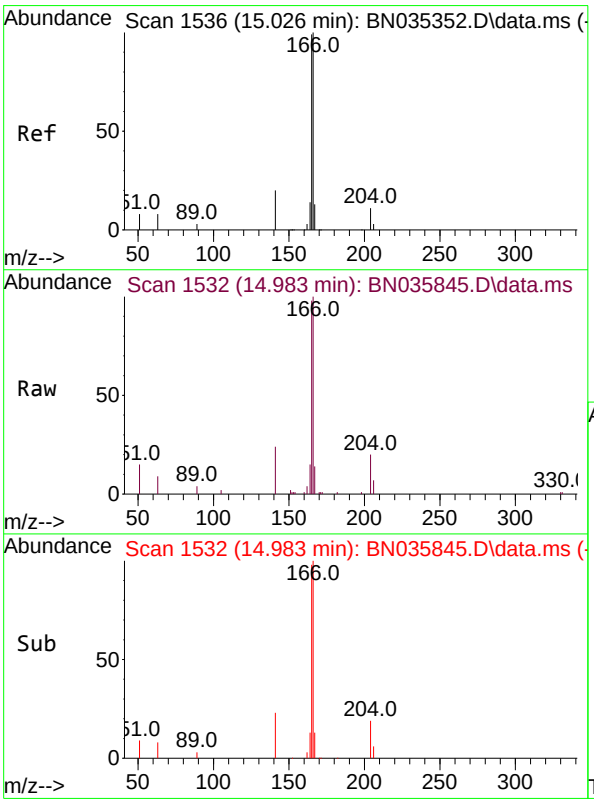
#17
Acenaphthene
Concen: 0.379 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

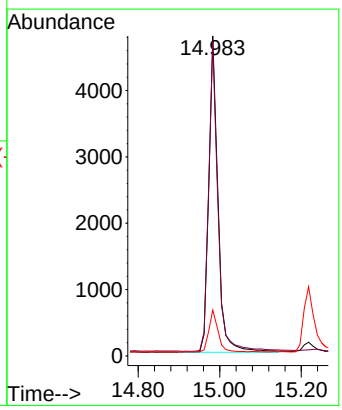


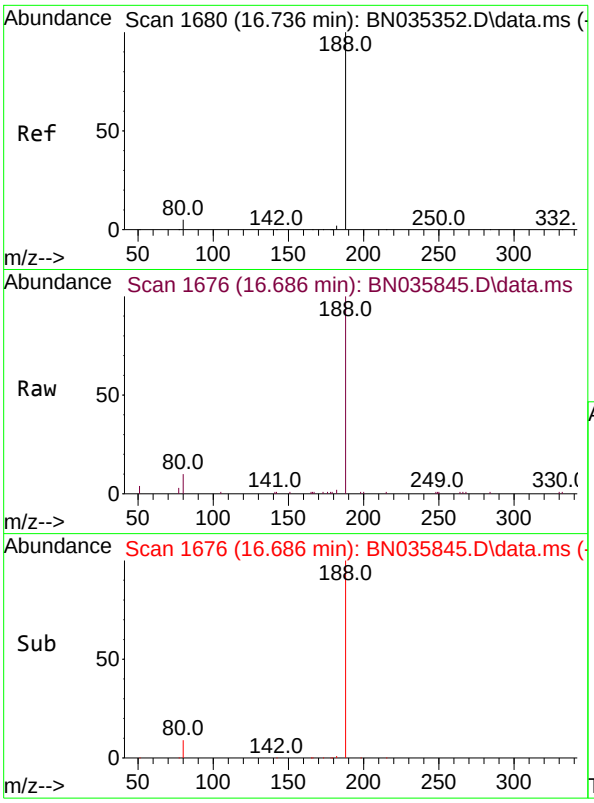


#18
Fluorene
Concen: 0.350 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



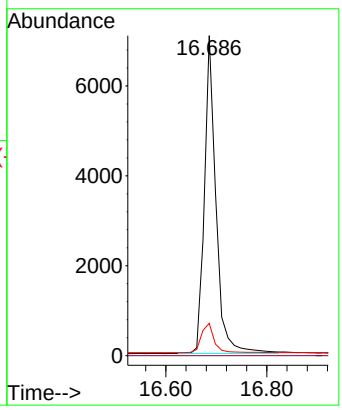


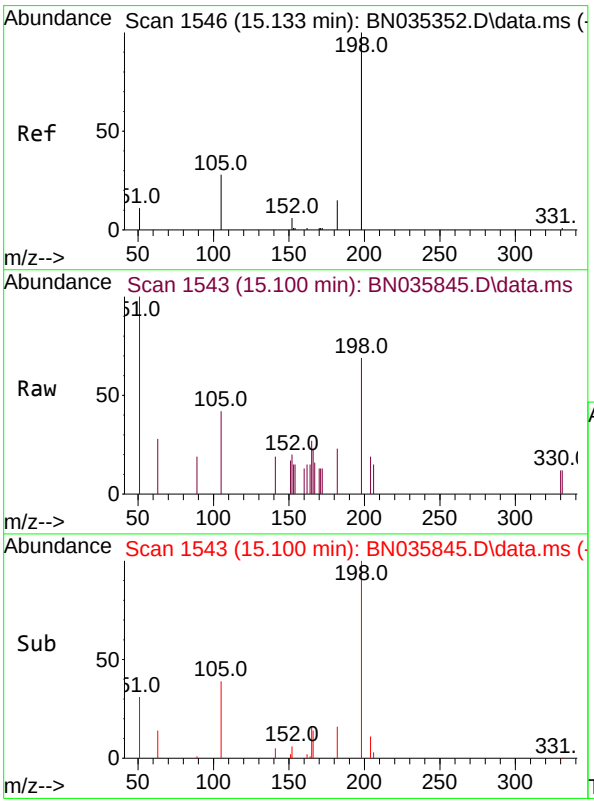
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

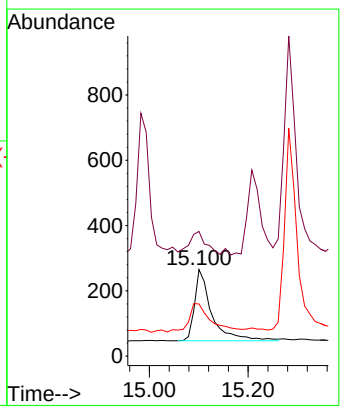


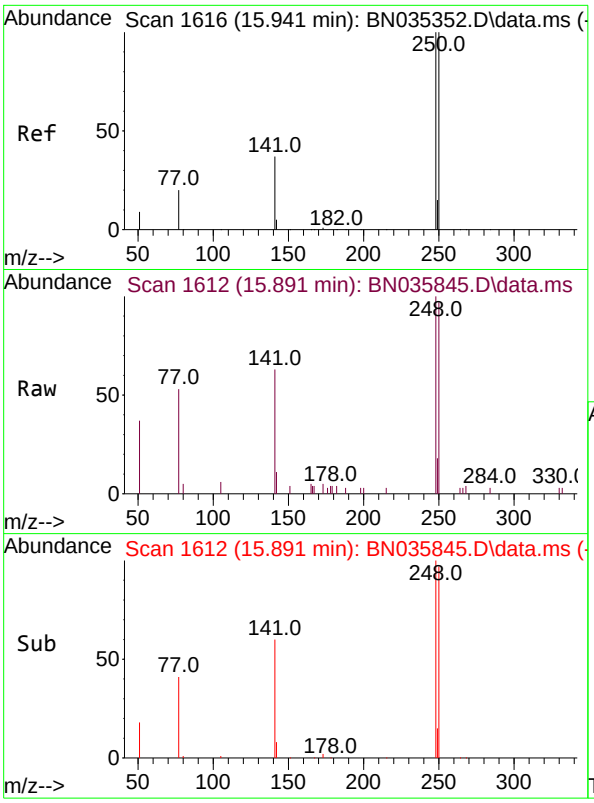


#20
4,6-Dinitro-2-methylphenol
Concen: 0.475 ng
RT: 15.100 min Scan# 1543
Delta R.T. -0.022 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



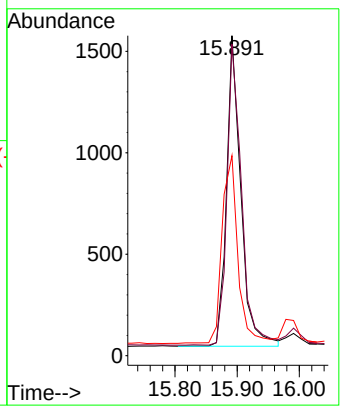


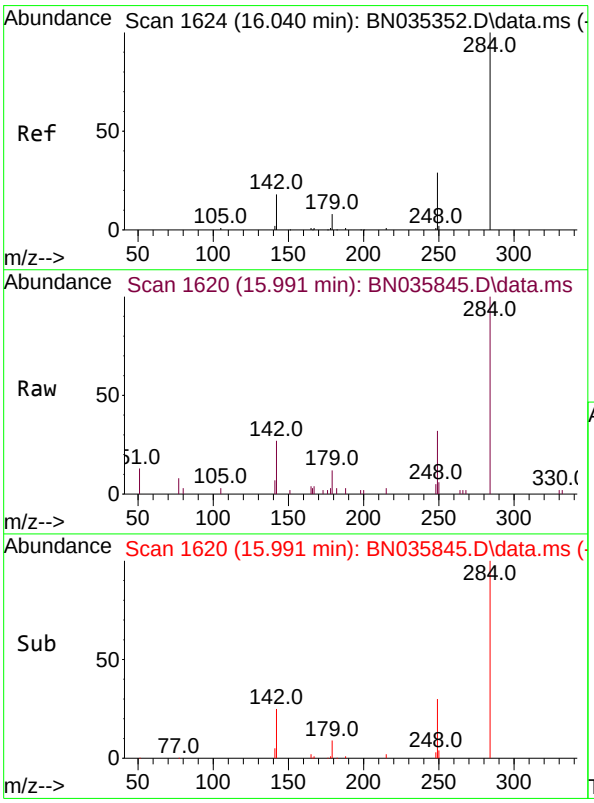
#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 15.891 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

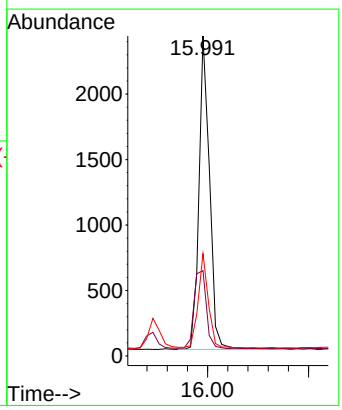


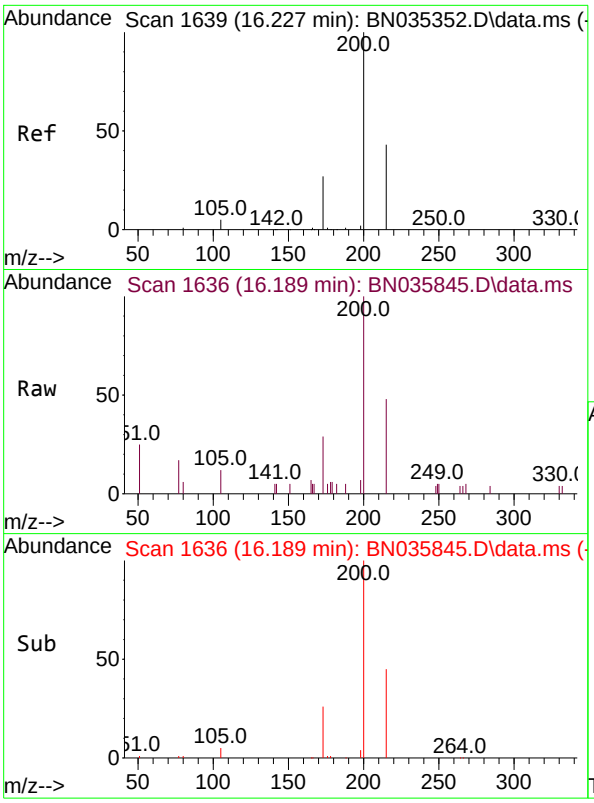


#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



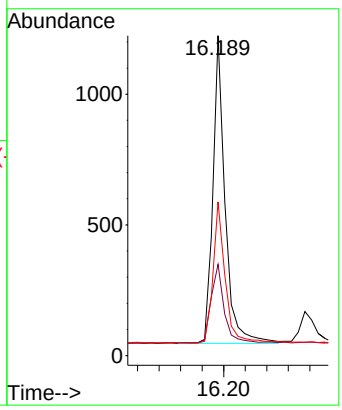


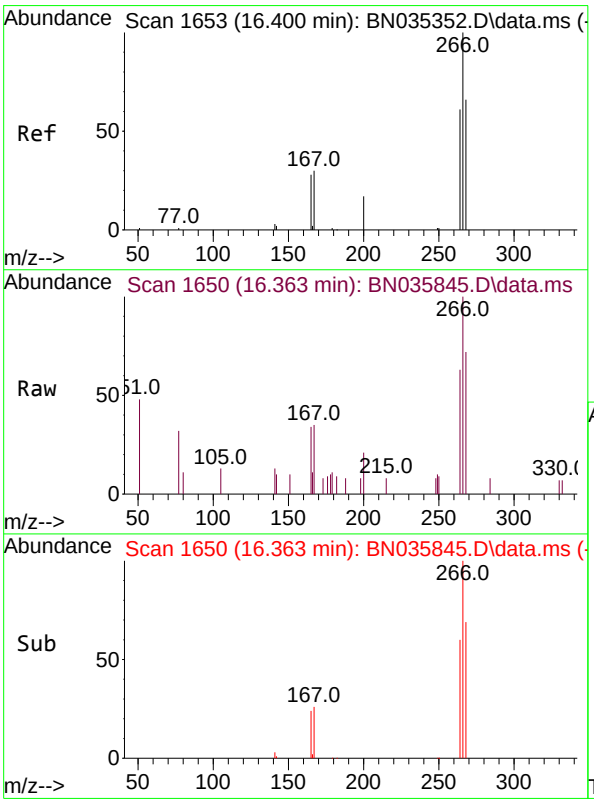
#23
Atrazine
Concen: 0.393 ng
RT: 16.189 min Scan# 1(
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

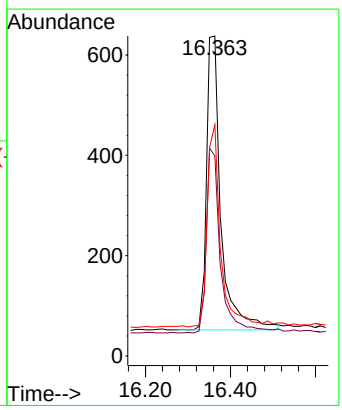


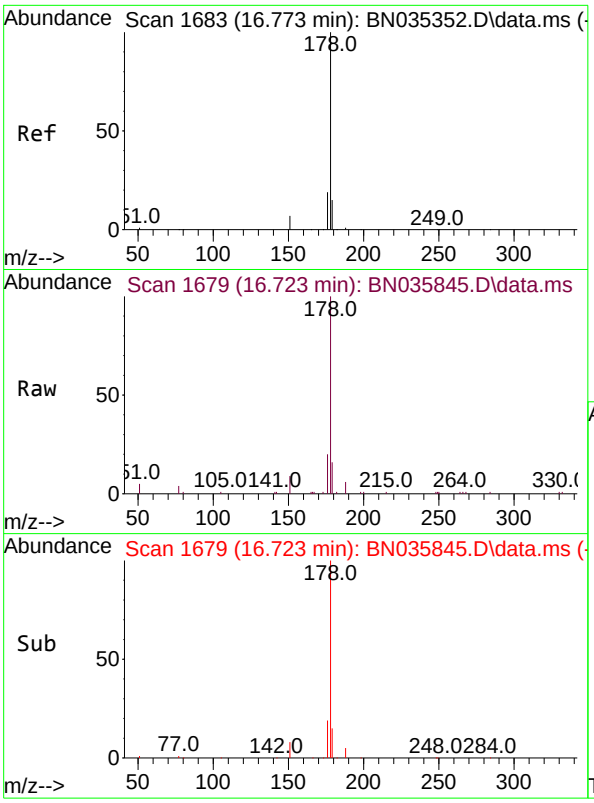


#24
Pentachlorophenol
Concen: 0.411 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



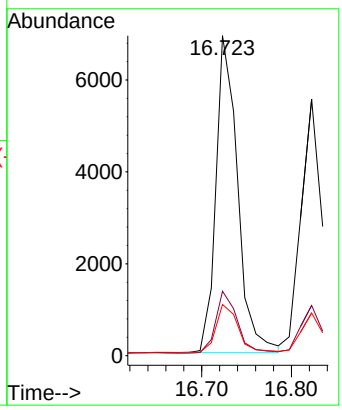


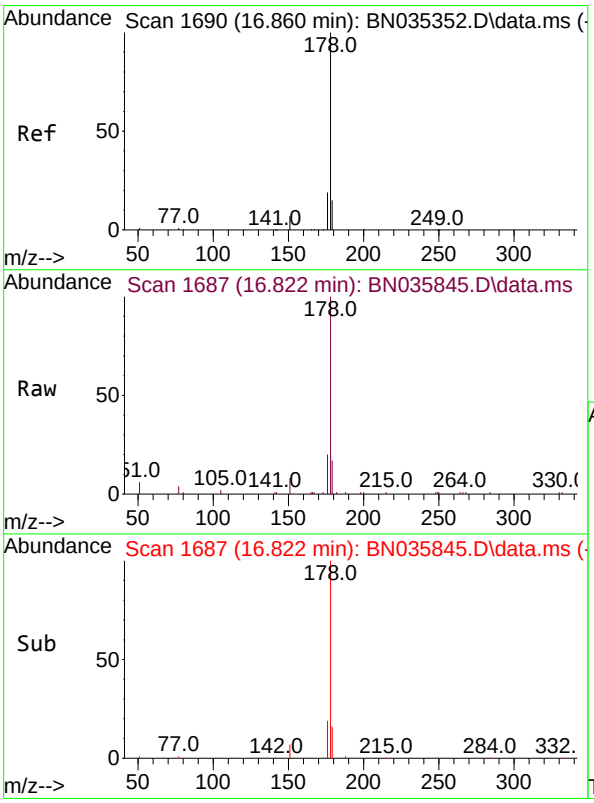
#25
Phenanthrene
Concen: 0.375 ng
RT: 16.723 min Scan# 1
Delta R.T. -0.025 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

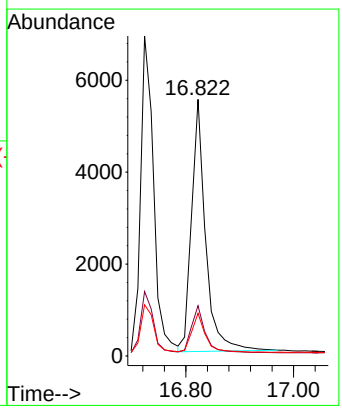


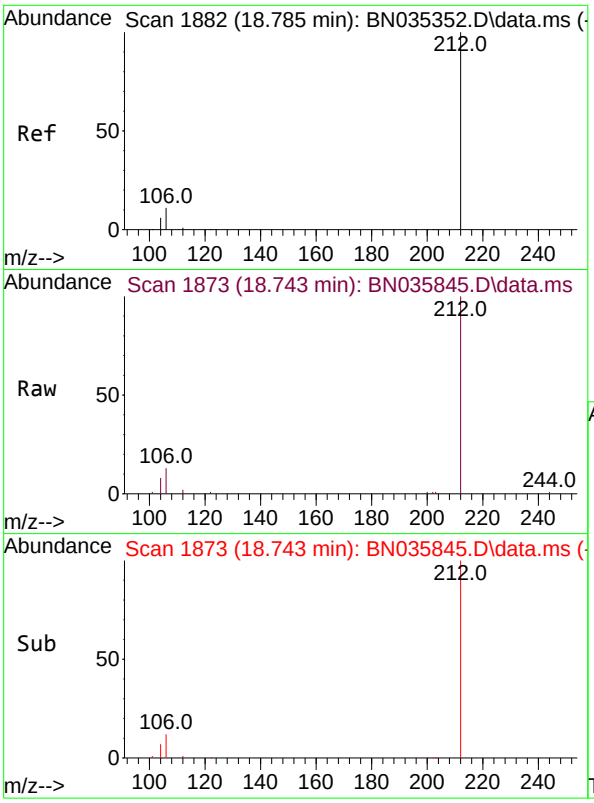


#26
Anthracene
Concen: 0.358 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.013 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



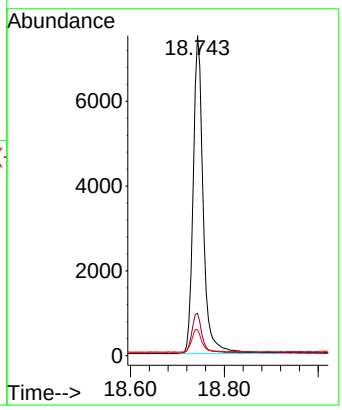


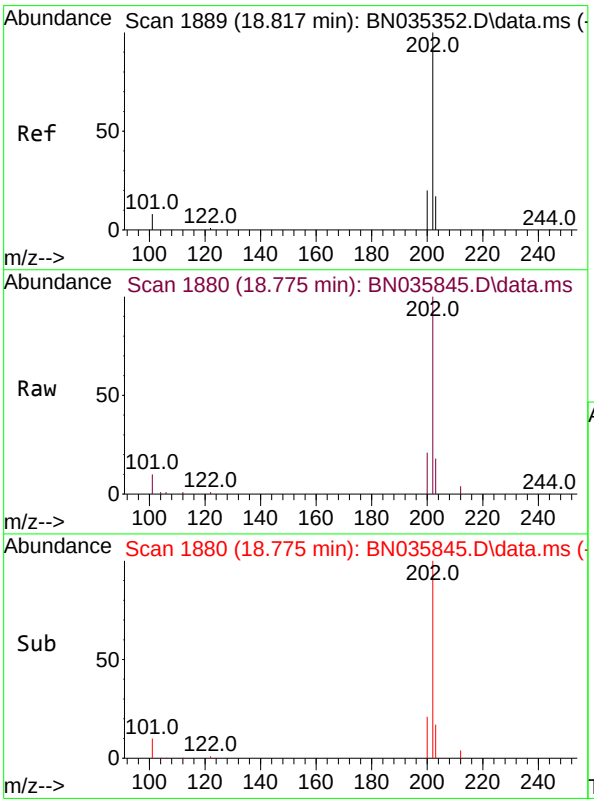
#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.743 min Scan# 1
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

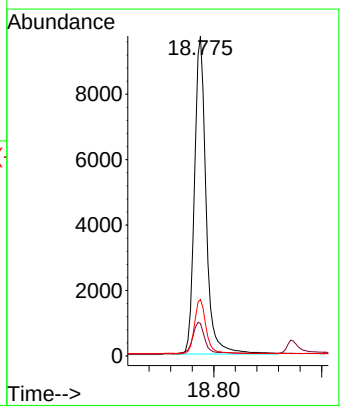


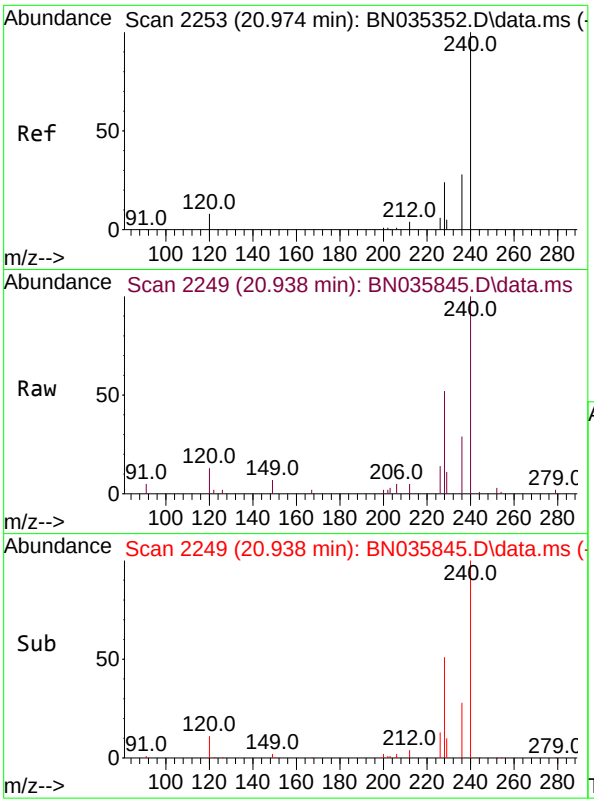


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.775 min Scan# 1880
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



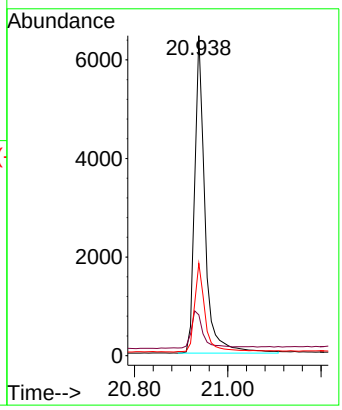


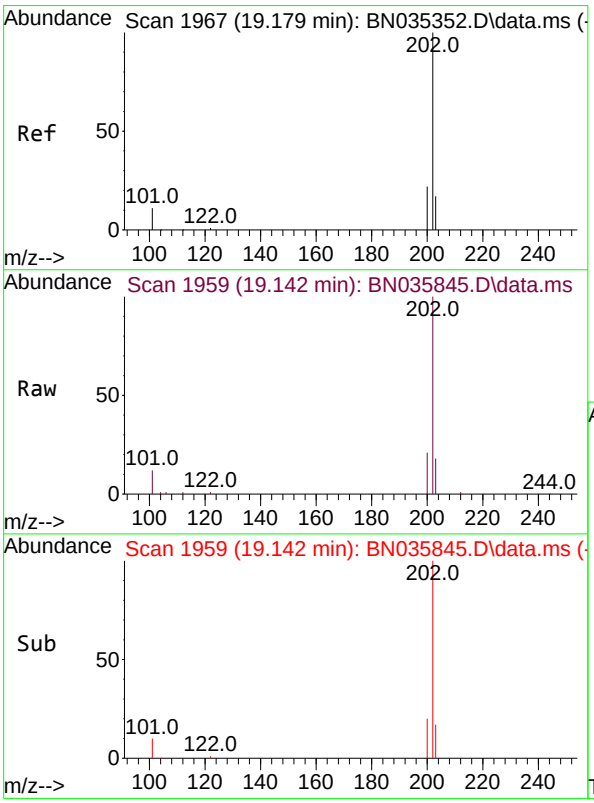
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.938 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

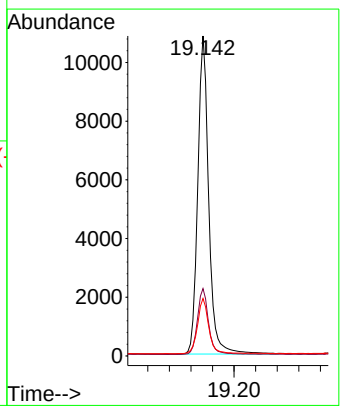


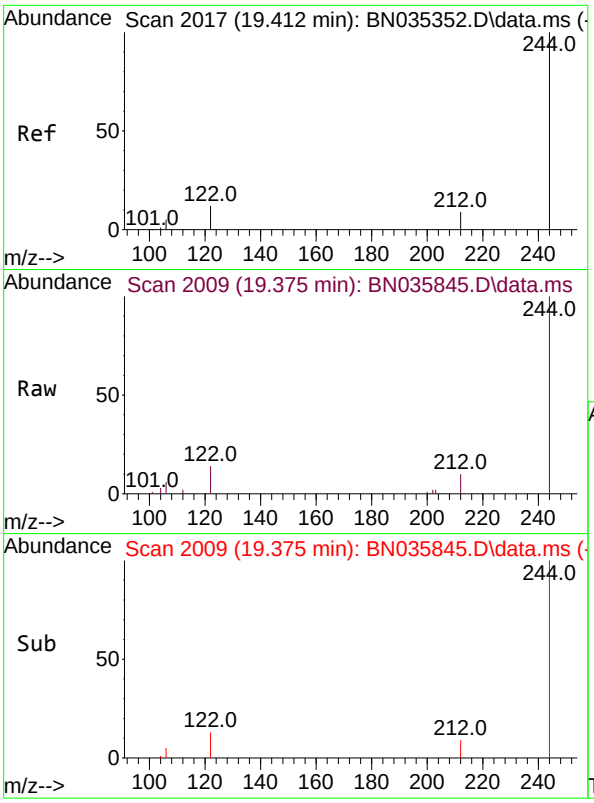


#30
Pyrene
Concen: 0.417 ng
RT: 19.142 min Scan# 1959
Delta R.T. -0.019 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



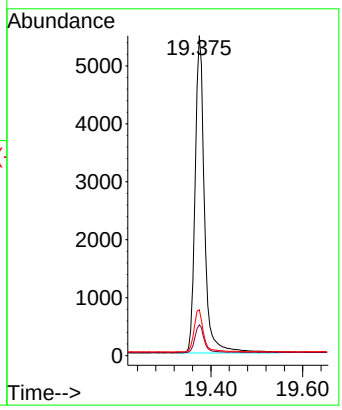


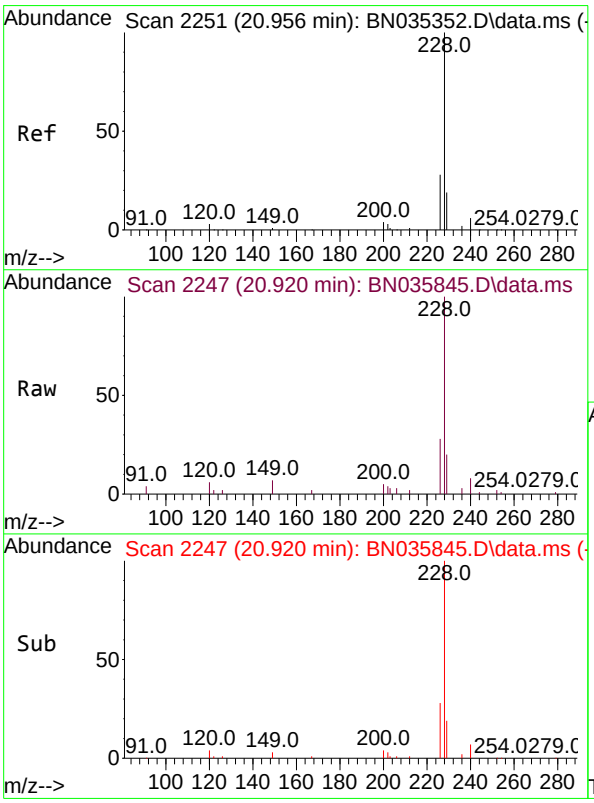
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

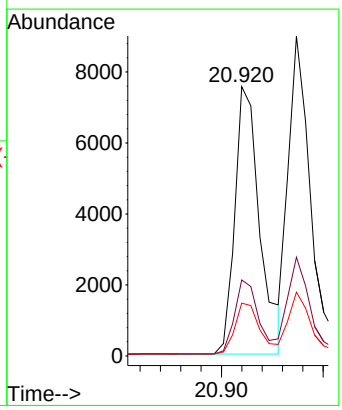


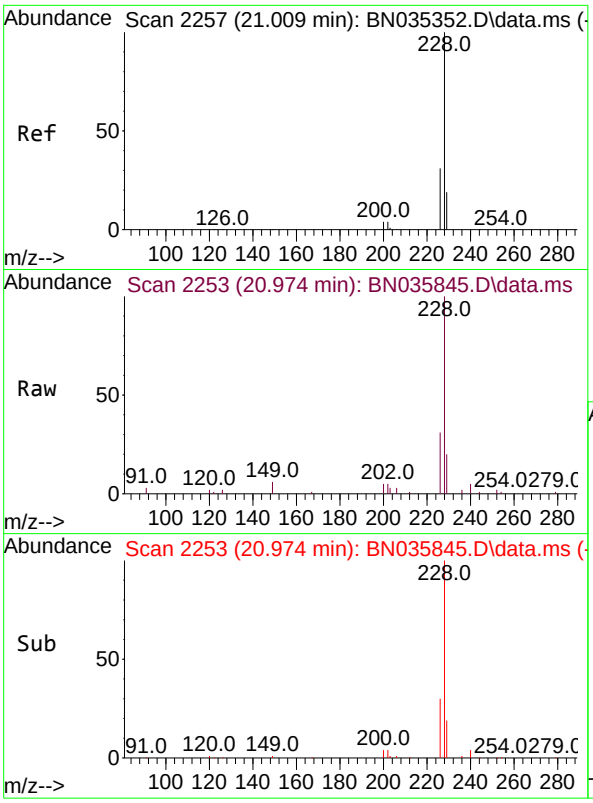


#32
Benzo(a)anthracene
Concen: 0.368 ng
RT: 20.920 min Scan# 2247
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



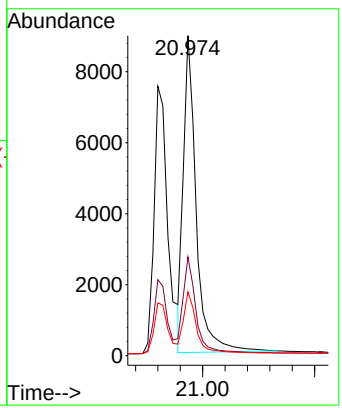


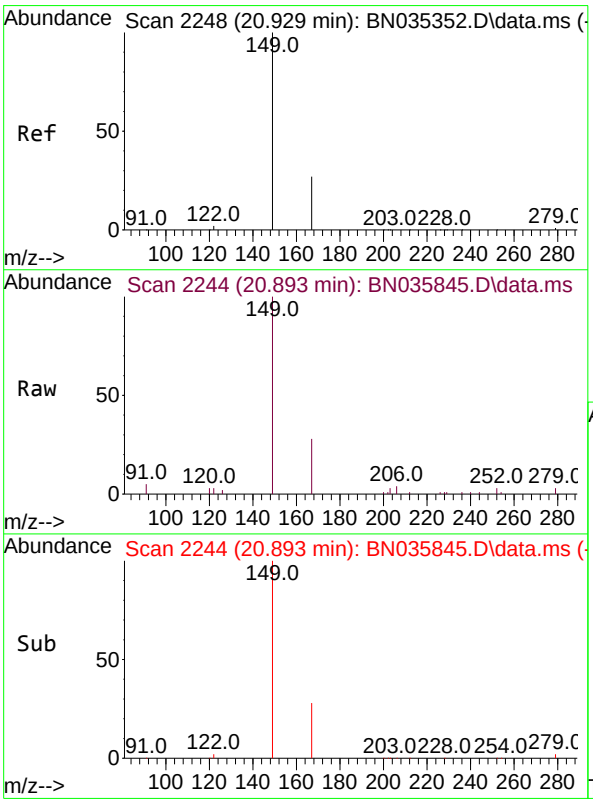
#33
Chrysene
Concen: 0.397 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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

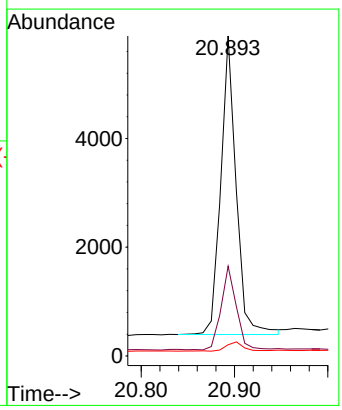


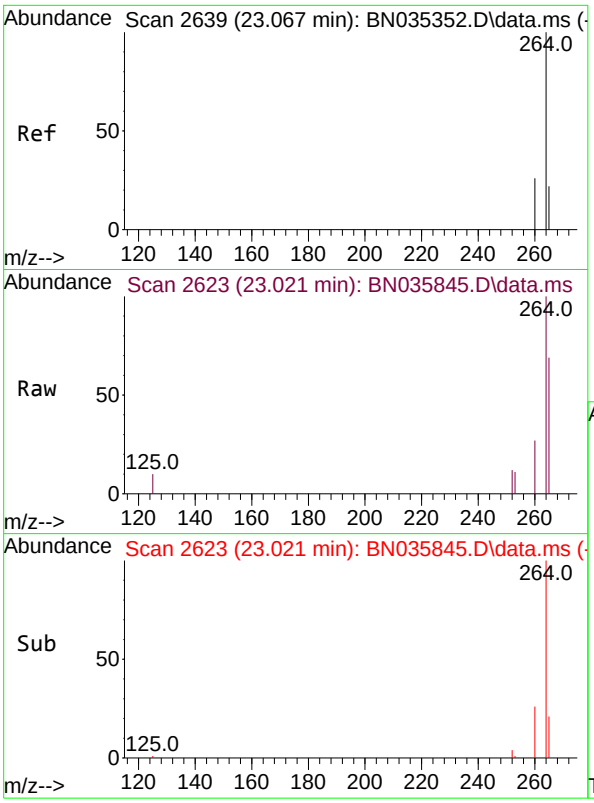


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.458 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



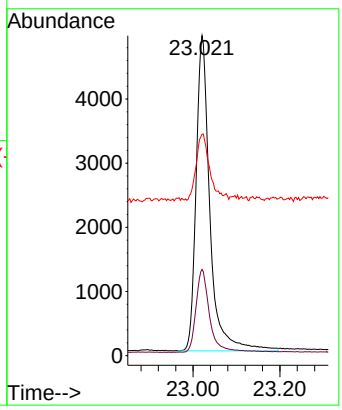


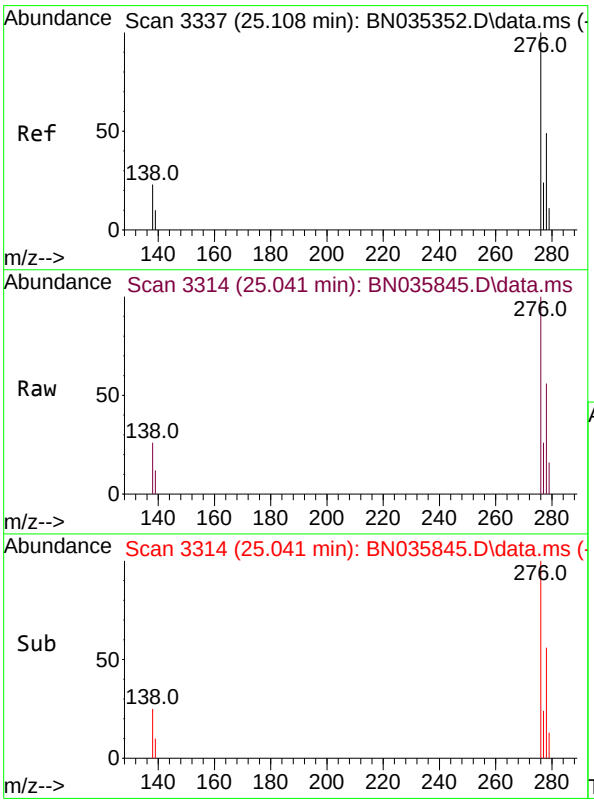
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.021 min Scan# 2
Delta R.T. -0.021 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

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#

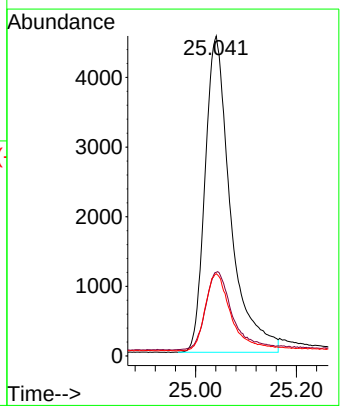


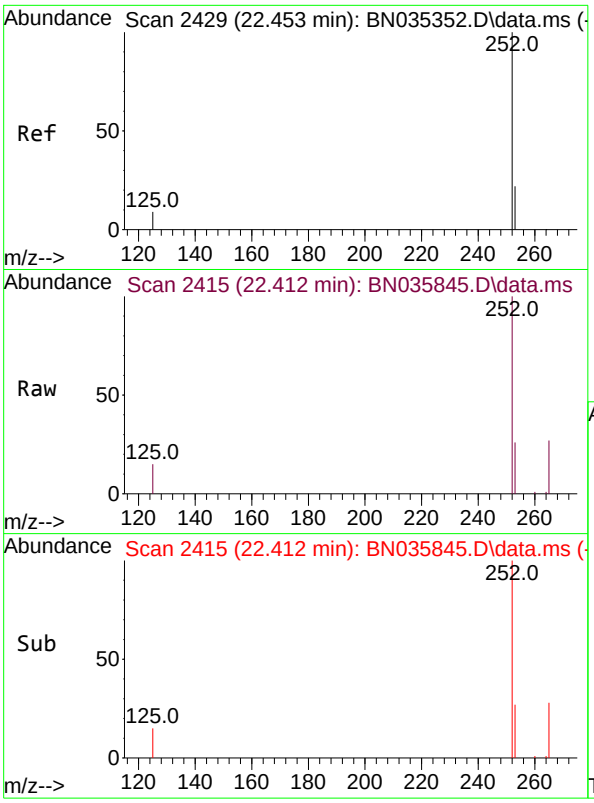


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.377 ng
RT: 25.041 min Scan# 3314
Delta R.T. -0.026 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



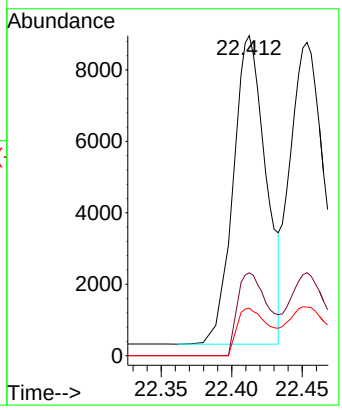


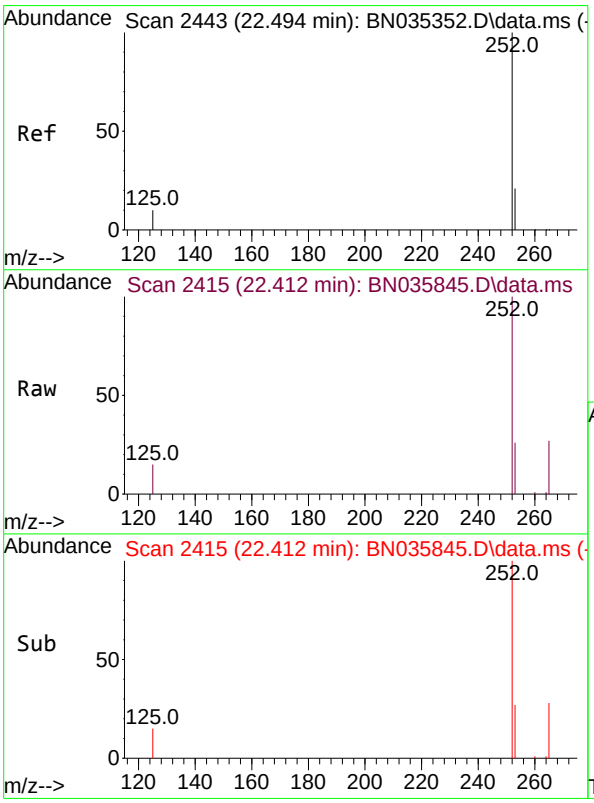
#37
Benzo(b)fluoranthene
Concen: 0.494 ng
RT: 22.412 min Scan# 24
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

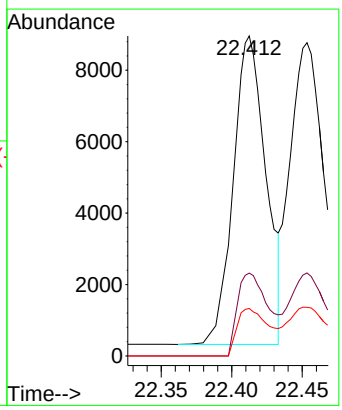


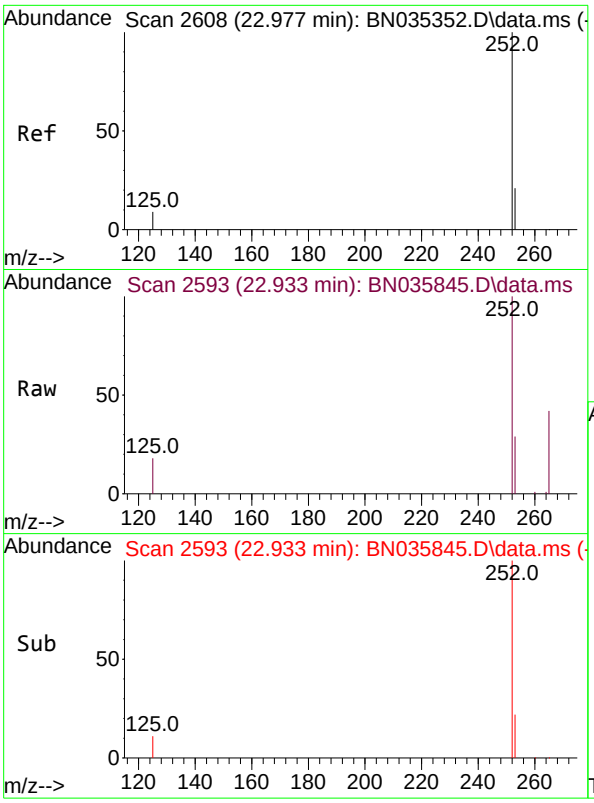


#38
Benzo(k)fluoranthene
Concen: 0.502 ng
RT: 22.412 min Scan# 2415
Delta R.T. -0.059 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



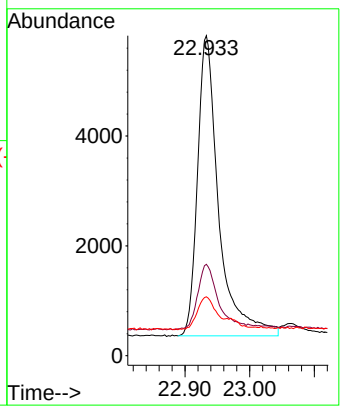


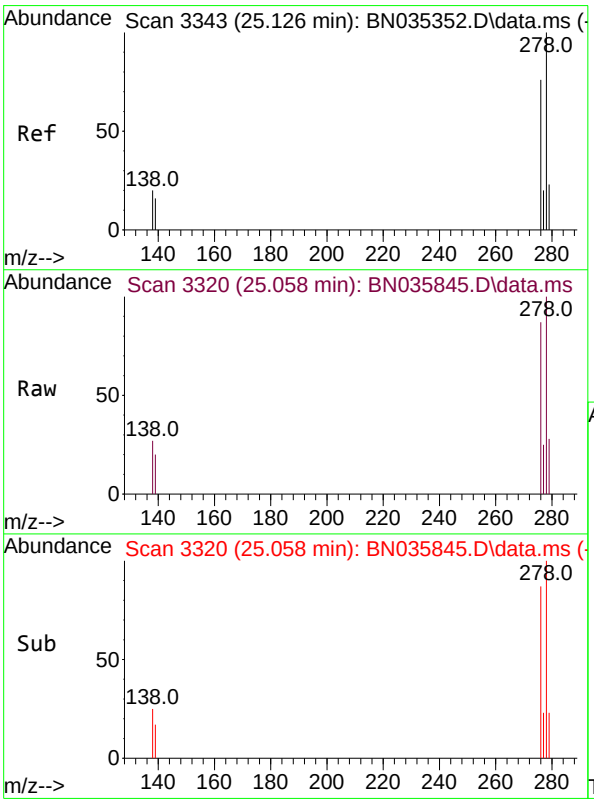
#39
Benzo(a)pyrene
Concen: 0.382 ng
RT: 22.933 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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#

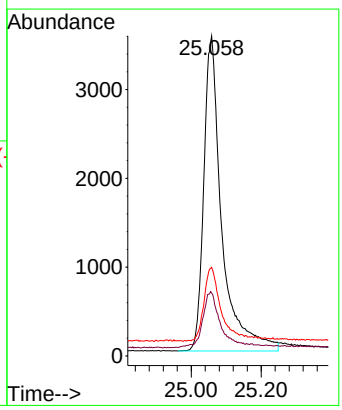


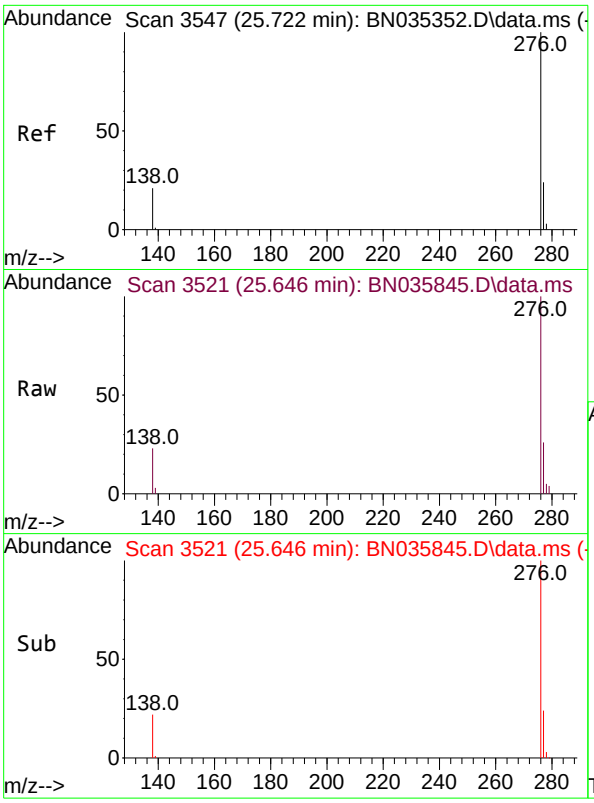


#40
Dibenzo(a,h)anthracene
Concen: 0.380 ng
RT: 25.058 min Scan# 3320
Delta R.T. -0.024 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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



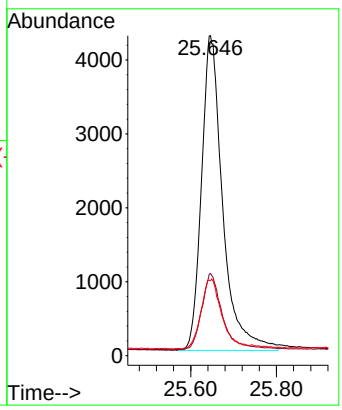


#41
Benzo(g,h,i)perylene
Concen: 0.419 ng
RT: 25.646 min Scan# 3
Delta R.T. -0.032 min
Lab File: BN035845.D
Acq: 26 Dec 2024 09:58

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 : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Quant Time: Dec 27 00:40:22 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	4513	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	10649	0.400	ng	-0.02
13) Acenaphthene-d10	13.924	164	6575	0.400	ng	-0.01
19) Phenanthrene-d10	16.698	188	14052	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	10269	0.400	ng	# 0.00
35) Perylene-d12	23.029	264	9894	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	4.924	112	3643	0.323	ng	-0.01
5) Phenol-d6	6.470	99	3773	0.278	ng	-0.02
8) Nitrobenzene-d5	8.397	82	3146	0.484	ng	-0.01
11) 2-Methylnaphthalene-d10	11.610	152	6172	0.370	ng	-0.01
14) 2,4,6-Tribromophenol	15.443	330	975	0.209	ng	-0.01
15) 2-Fluorobiphenyl	12.533	172	9551	0.384	ng	-0.01
27) Fluoranthene-d10	18.747	212	15078	0.379	ng	-0.01
31) Terphenyl-d14	19.375	244	10893	0.538	ng	-0.01
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	20.893	149	381	0.027	ng	# 94

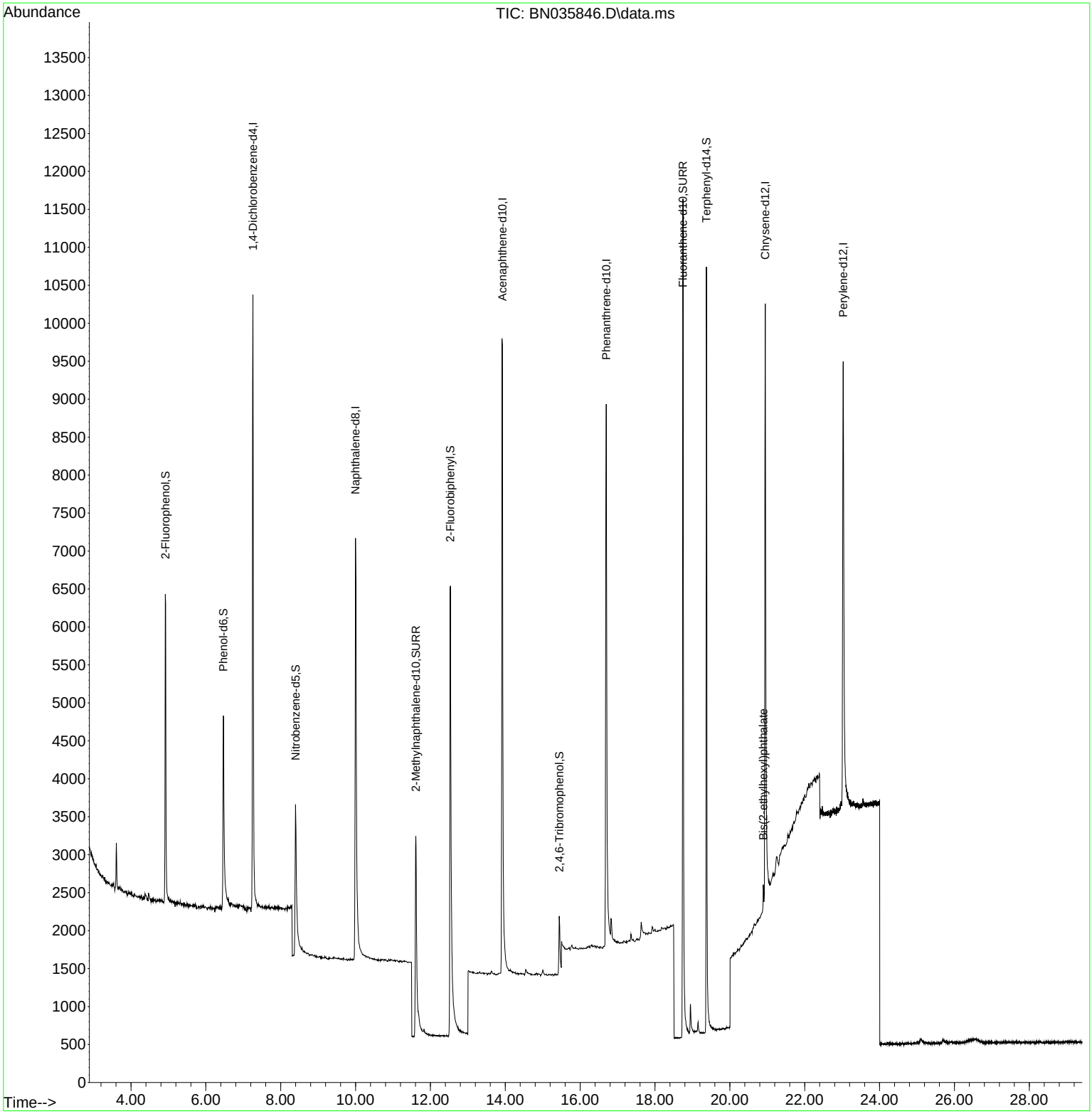
(#) = qualifier out of range (m) = manual integration (+) = signals summed

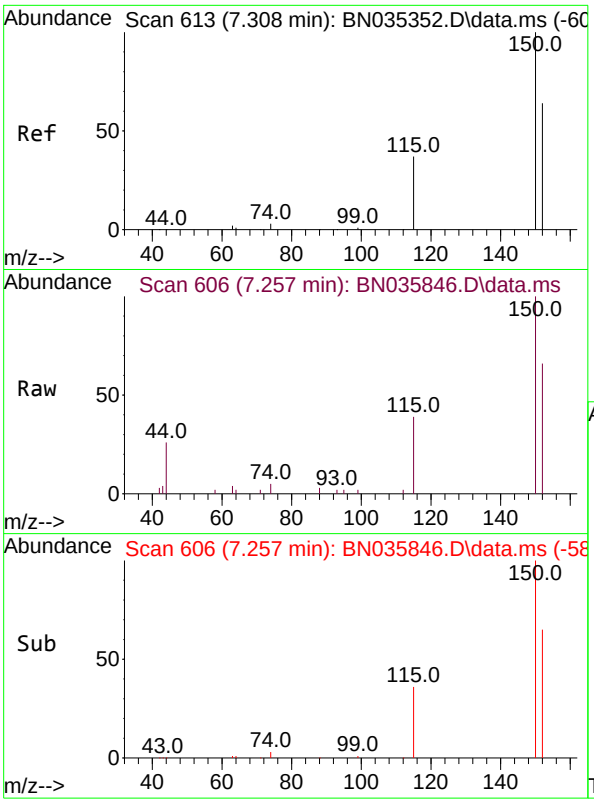
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035846.D
Acq On : 26 Dec 2024 10:35
Operator : RC/JU
Sample : PB165724BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Quant Time: Dec 27 00:40:22 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



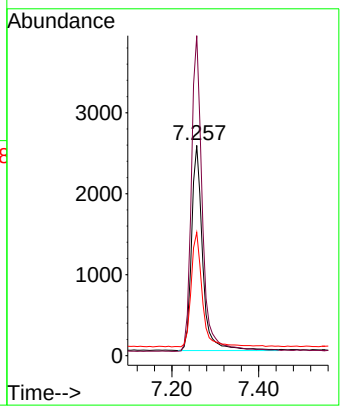


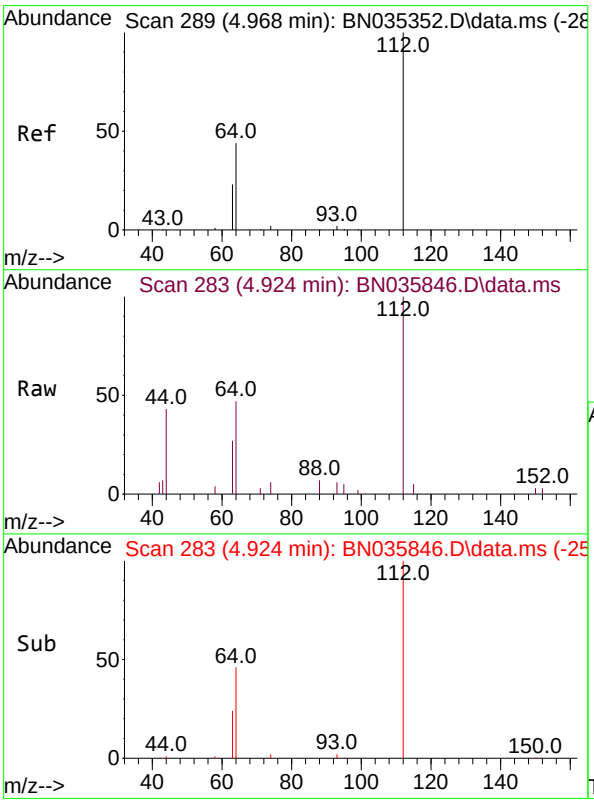
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:152 Resp: 4513

Ion	Ratio	Lower	Upper
152	100		
150	152.2	124.0	186.0
115	58.6	49.6	74.4

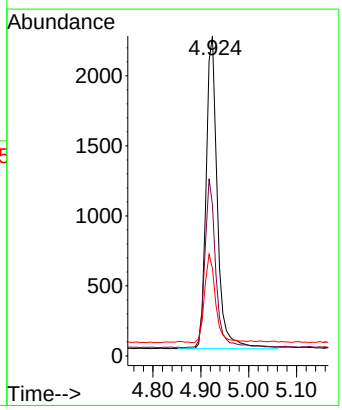


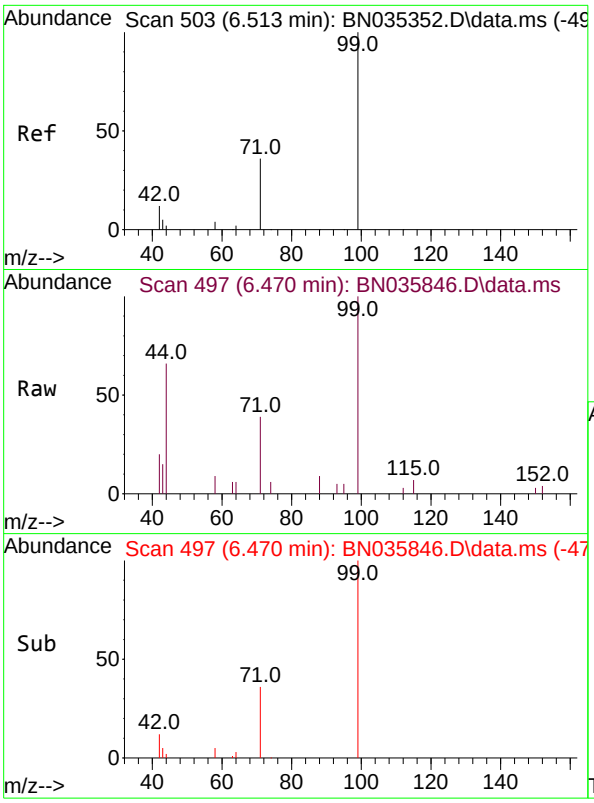


#4
2-Fluorophenol
Concen: 0.323 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:112 Resp: 3643

Ion	Ratio	Lower	Upper
112	100		
64	52.8	39.8	59.8
63	27.4	21.0	31.6



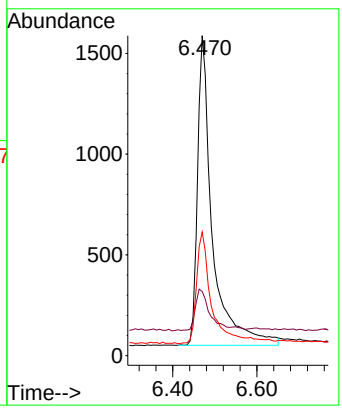


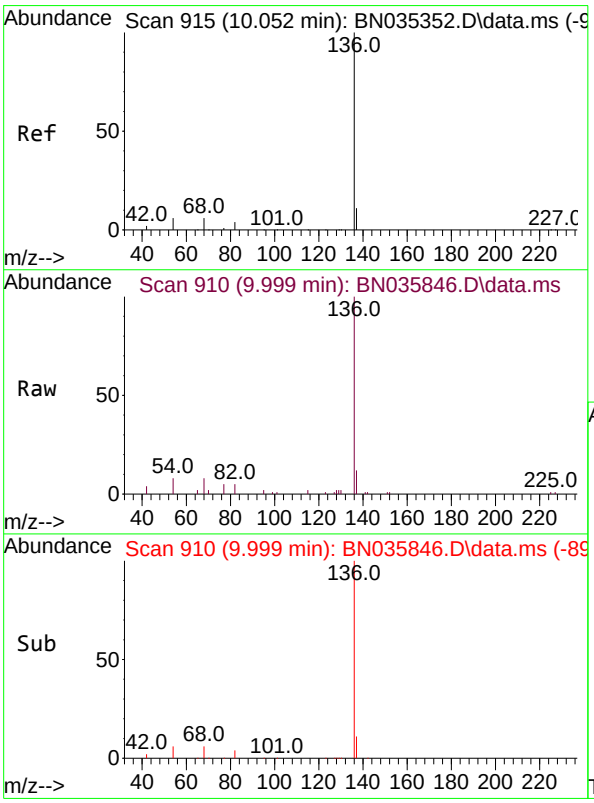
#5
Phenol-d6
Concen: 0.278 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion: 99 Resp: 3773

Ion	Ratio	Lower	Upper
99	100		
42	12.5	11.4	17.2
71	37.4	29.3	43.9

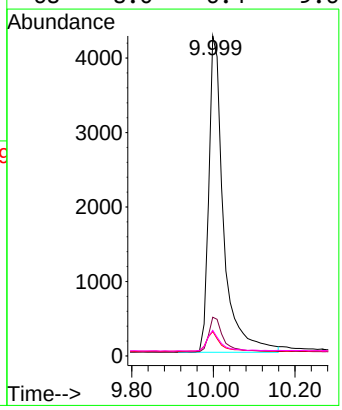


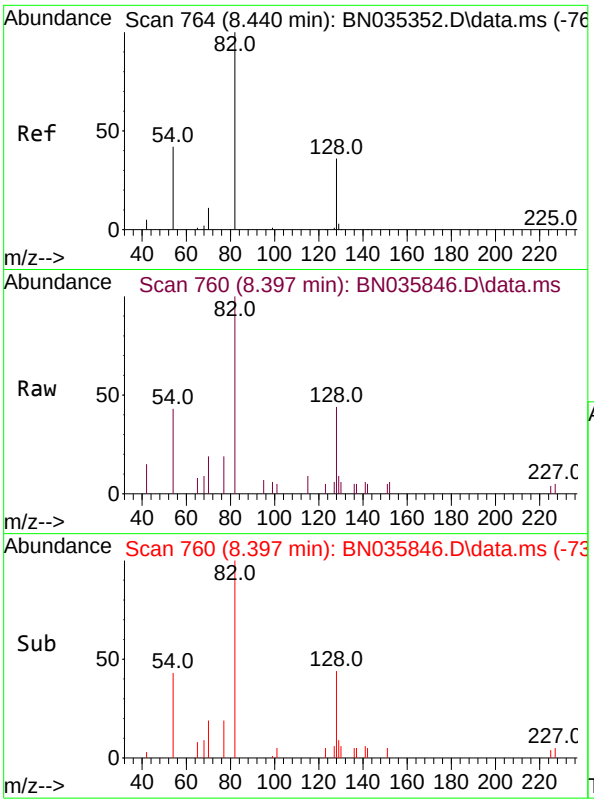


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 910
Delta R.T. -0.022 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:136 Resp: 10649

Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.2	15.2
54	7.7	6.1	9.1
68	8.0	6.4	9.6



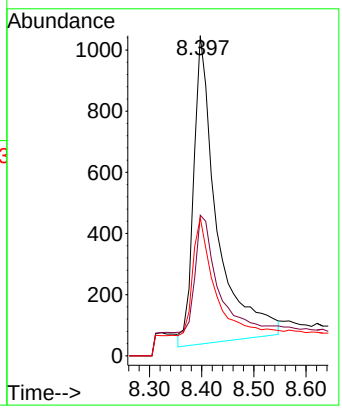


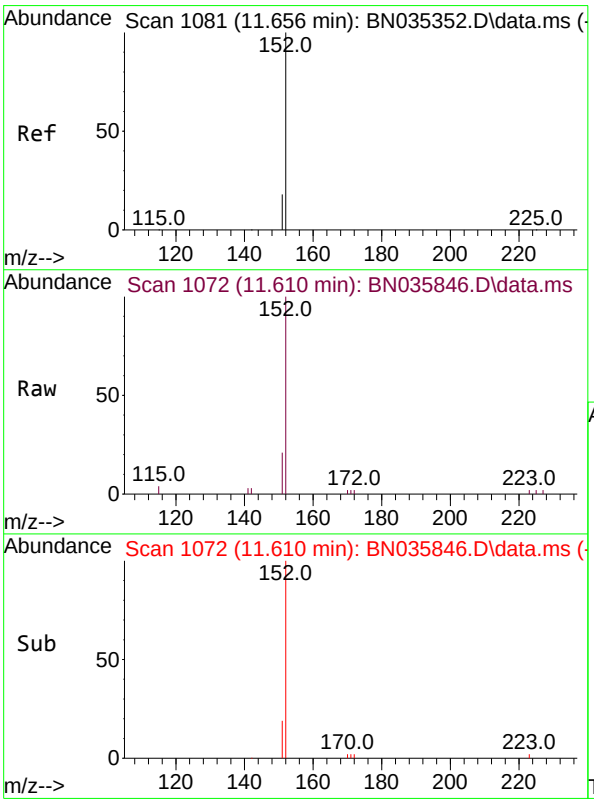
#8
Nitrobenzene-d5
Concen: 0.484 ng
RT: 8.397 min Scan# 7
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion: 82 Resp: 3146

Ion	Ratio	Lower	Upper
82	100		
128	43.9	33.4	50.0
54	43.1	36.7	55.1

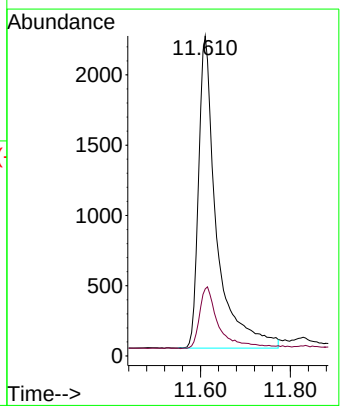


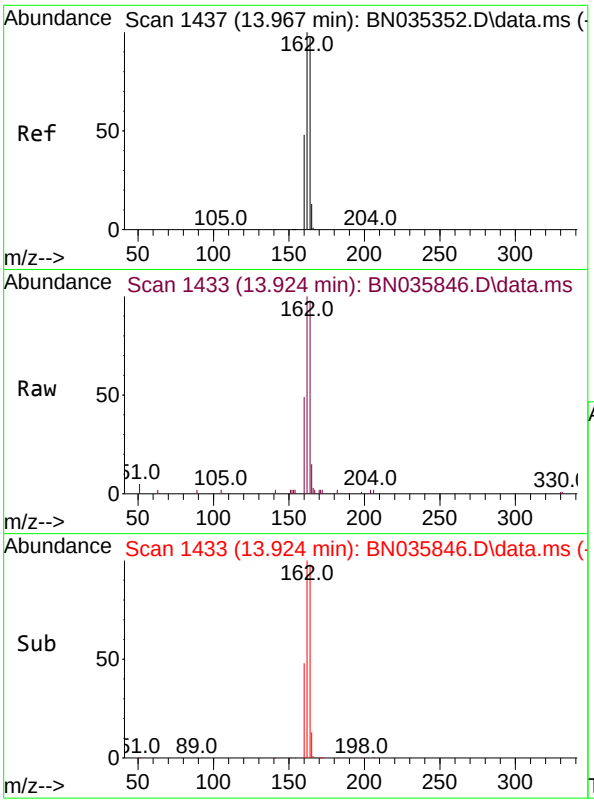


#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.610 min Scan# 1072
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:152 Resp: 6172

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	25.0



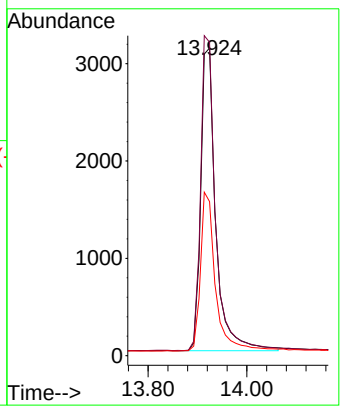


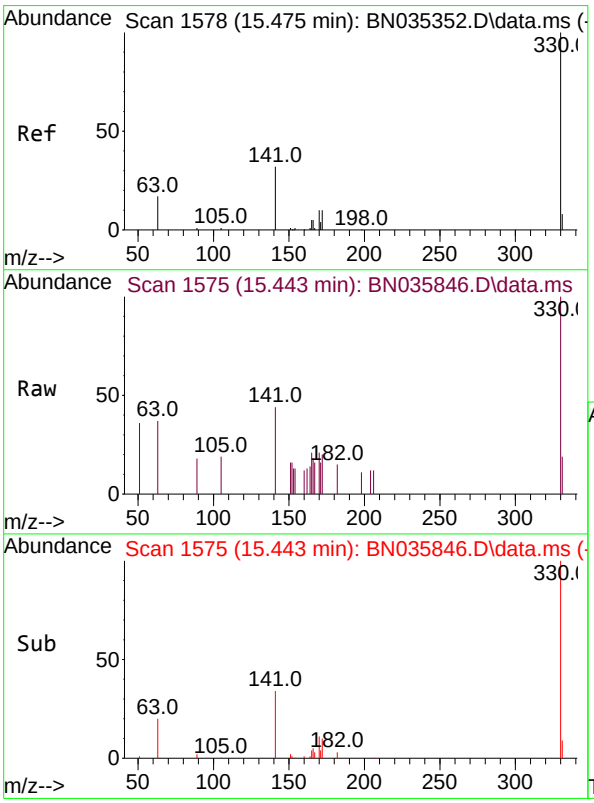
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.924 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:164 Resp: 6575

Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.2	123.2
160	50.1	40.1	60.1

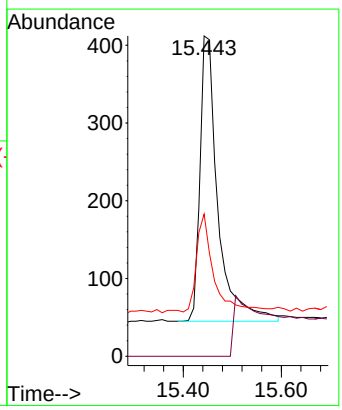


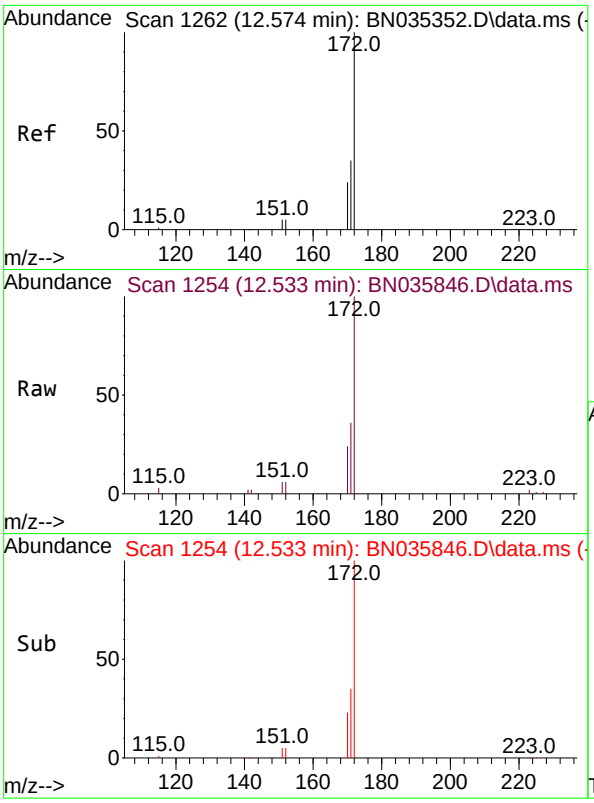


#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:330 Resp: 975

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	32.3	26.6	40.0



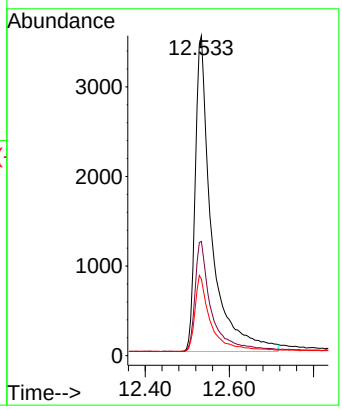


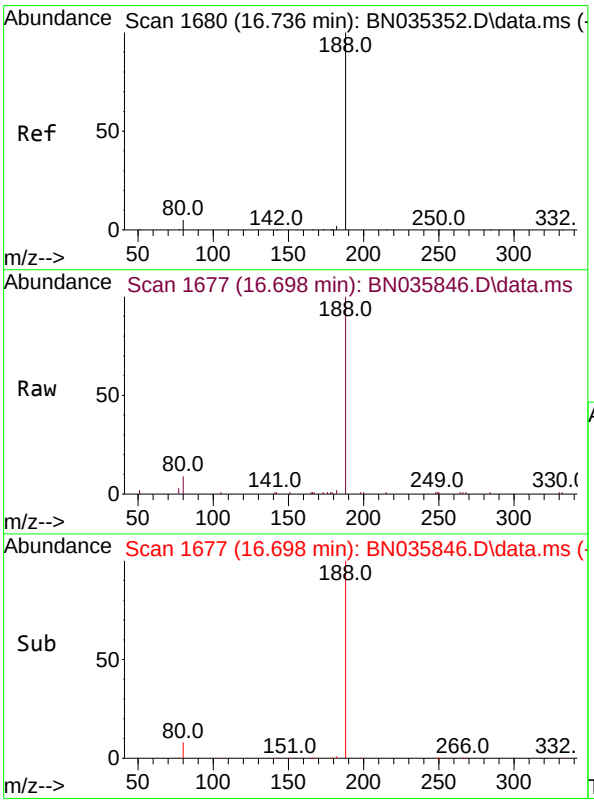
#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:172 Resp: 9551

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.0	43.4
170	24.0	19.8	29.8

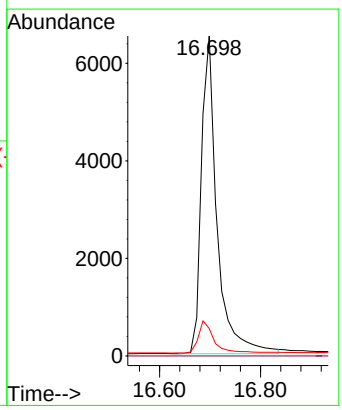


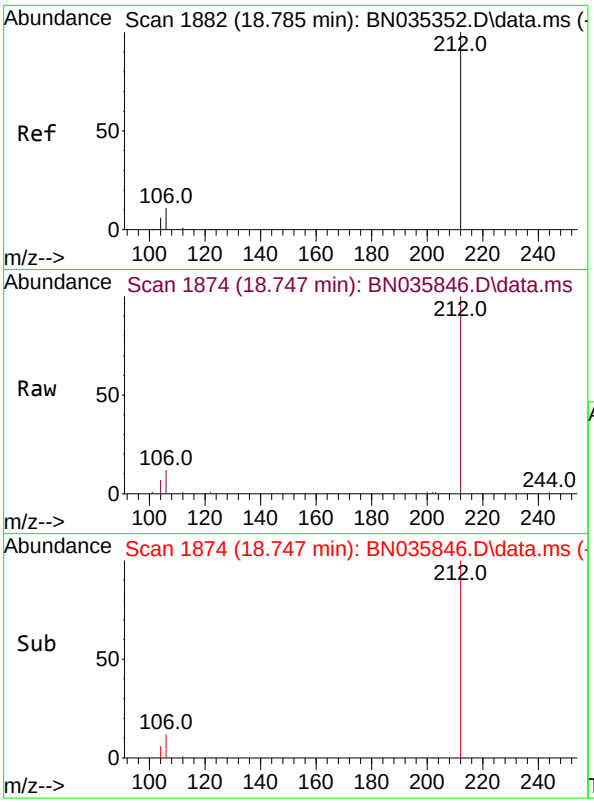


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:188 Resp: 14052

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	4.6	6.8#



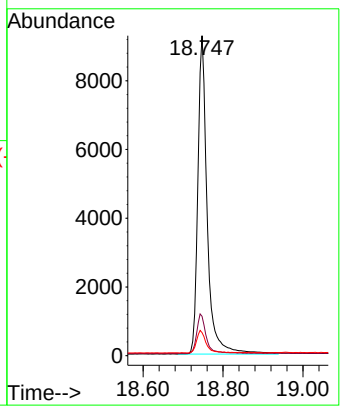


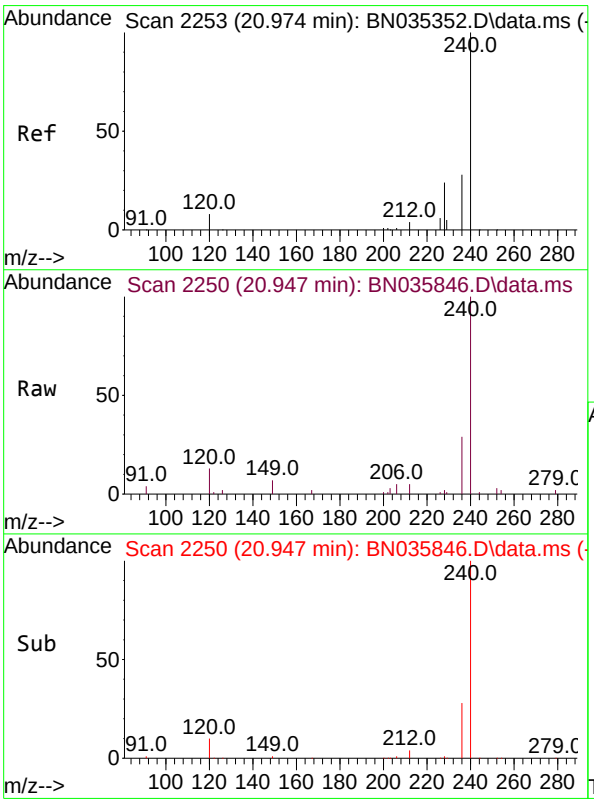
#27
Fluoranthene-d10
Concen: 0.379 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:212 Resp: 15078

Ion	Ratio	Lower	Upper
212	100		
106	12.7	9.2	13.8
104	7.2	5.3	7.9

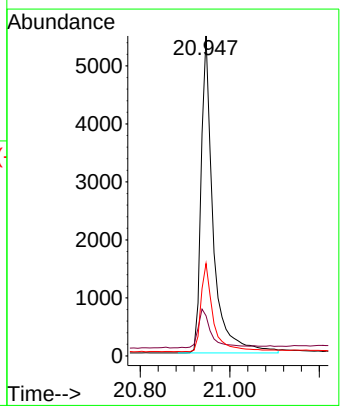


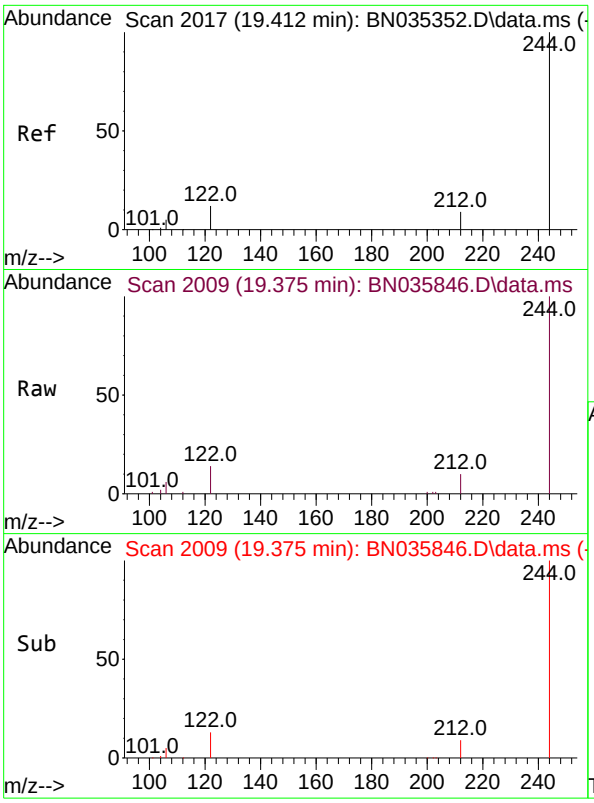


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2250
Delta R.T. -0.009 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:240 Resp: 10269

Ion	Ratio	Lower	Upper
240	100		
120	12.5	7.9	11.9#
236	28.9	22.9	34.3



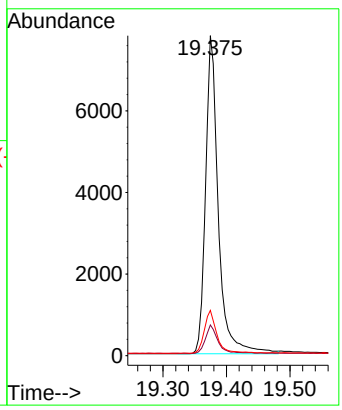


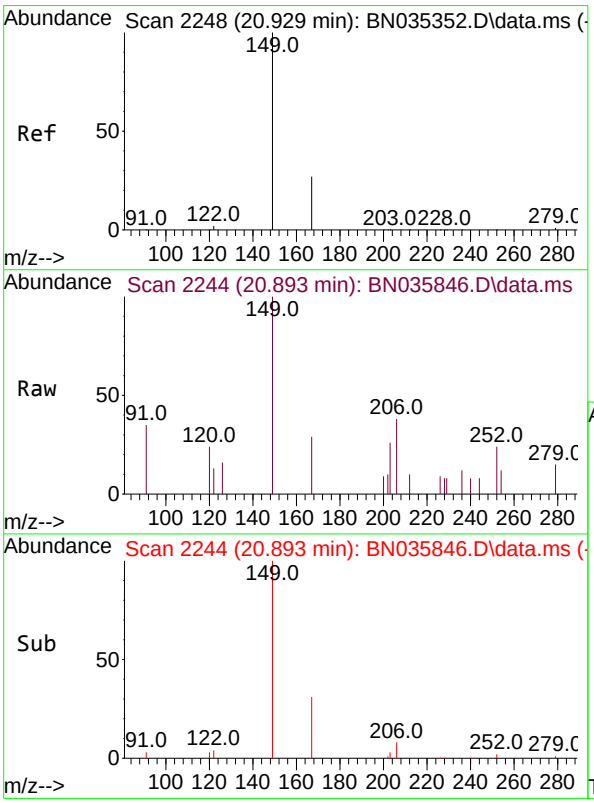
#31
Terphenyl-d14
Concen: 0.538 ng
RT: 19.375 min Scan# 2
Delta R.T. -0.014 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:244 Resp: 10893

Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.1	12.1
122	14.2	10.3	15.5

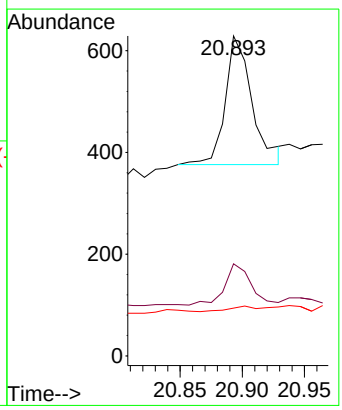


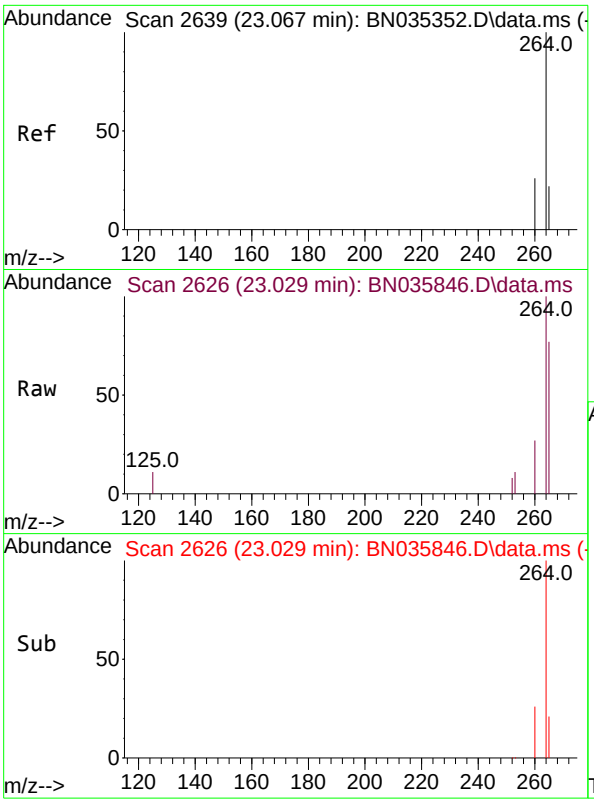


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.027 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Tgt Ion:149 Resp: 381

Ion	Ratio	Lower	Upper
149	100		
167	31.0	22.2	33.4
279	4.2	2.7	4.1#



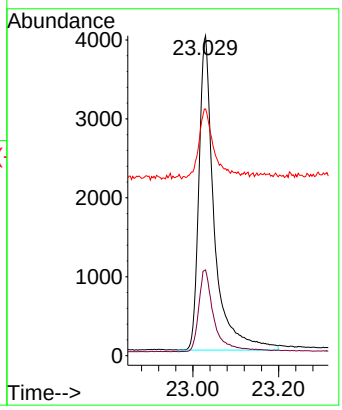


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.029 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035846.D
Acq: 26 Dec 2024 10:35

Instrument :
BNA_N
ClientSampleId :
PB165724BL

Tgt Ion:264 Resp: 9894

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.4	32.2
265	77.1	40.2	60.4#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035853.D
Acq On : 26 Dec 2024 14:54
Operator : RC/JU
Sample : PB165724BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Quant Time: Dec 27 00:41:25 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	2938	0.400	ng	-0.01
7) Naphthalene-d8	9.999	136	6908	0.400	ng	-0.02
13) Acenaphthene-d10	13.914	164	3870	0.400	ng	-0.02
19) Phenanthrene-d10	16.698	188	7401	0.400	ng	# 0.00
29) Chrysene-d12	20.947	240	5744	0.400	ng	# 0.00
35) Perylene-d12	23.024	264	6254	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	4.925	112	2679	0.364	ng	-0.01
5) Phenol-d6	6.470	99	2872	0.325	ng	-0.02
8) Nitrobenzene-d5	8.397	82	2496	0.592	ng	-0.01
11) 2-Methylnaphthalene-d10	11.606	152	5721	0.529	ng	-0.02
14) 2,4,6-Tribromophenol	15.443	330	445	0.162	ng	-0.01
15) 2-Fluorobiphenyl	12.528	172	6817	0.466	ng	-0.02
27) Fluoranthene-d10	18.748	212	8300	0.396	ng	-0.01
31) Terphenyl-d14	19.379	244	5786	0.511	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.974	88	1269	0.452	ng	# 81
3) n-Nitrosodimethylamine	3.263	42	1206	0.516	ng	# 93
6) bis(2-Chloroethyl)ether	6.716	93	3004	0.404	ng	99
9) Naphthalene	10.052	128	8072	0.443	ng	99
10) Hexachlorobutadiene	10.340	225	1977	0.470	ng	# 98
12) 2-Methylnaphthalene	11.682	142	5041	0.386	ng	99
16) Acenaphthylene	13.625	152	7205	0.443	ng	99
17) Acenaphthene	13.978	154	4687	0.434	ng	100
18) Fluorene	14.983	166	5947	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.122	198	403	0.554	ng	# 71
21) 4-Bromophenyl-phenylether	15.904	248	1824	0.421	ng	# 94
22) Hexachlorobenzene	15.991	284	2652	0.522	ng	96
23) Atrazine	16.202	200	1370	0.445	ng	95
24) Pentachlorophenol	16.363	266	985	0.445	ng	88
25) Phenanthrene	16.736	178	8677	0.427	ng	100
26) Anthracene	16.835	178	7654	0.416	ng	99
28) Fluoranthene	18.780	202	9853	0.360	ng	99
30) Pyrene	19.147	202	10152	0.479	ng	100
32) Benzo(a)anthracene	20.929	228	7921	0.394	ng	99
33) Chrysene	20.983	228	10214	0.493	ng	99
34) Bis(2-ethylhexyl)phtha...	20.893	149	3576	0.451	ng	99
36) Indeno(1,2,3-cd)pyrene	25.047	276	12472	0.510	ng	100
37) Benzo(b)fluoranthene	22.416	252	13352	0.584	ng	# 93
38) Benzo(k)fluoranthene	22.456	252	10641	0.473	ng	# 93
39) Benzo(a)pyrene	22.939	252	9066	0.481	ng	# 88
40) Dibenzo(a,h)anthracene	25.070	278	9318	0.483	ng	93
41) Benzo(g,h,i)perylene	25.652	276	10352	0.513	ng	97

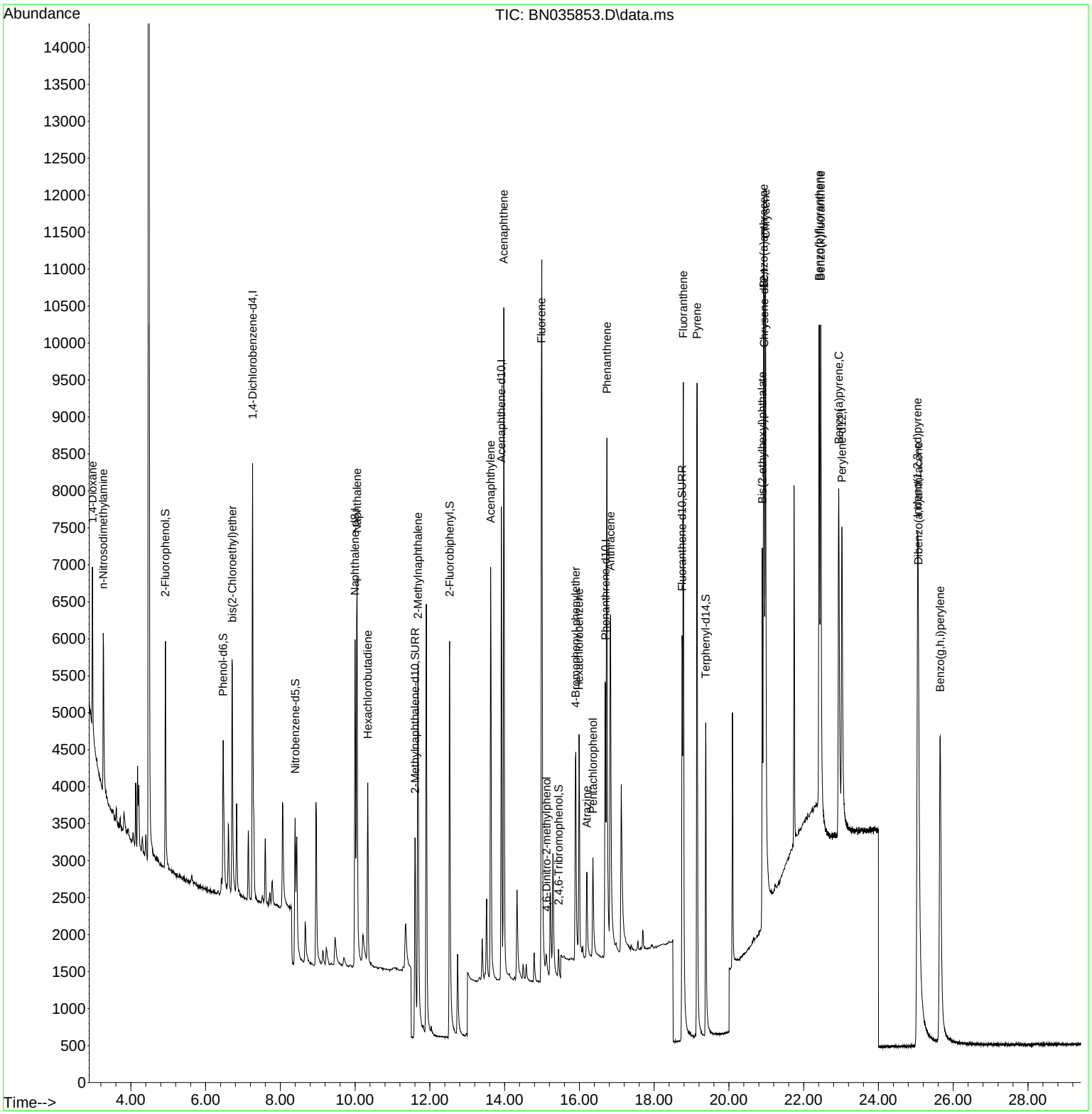
(#) = qualifier out of range (m) = manual integration (+) = signals summed

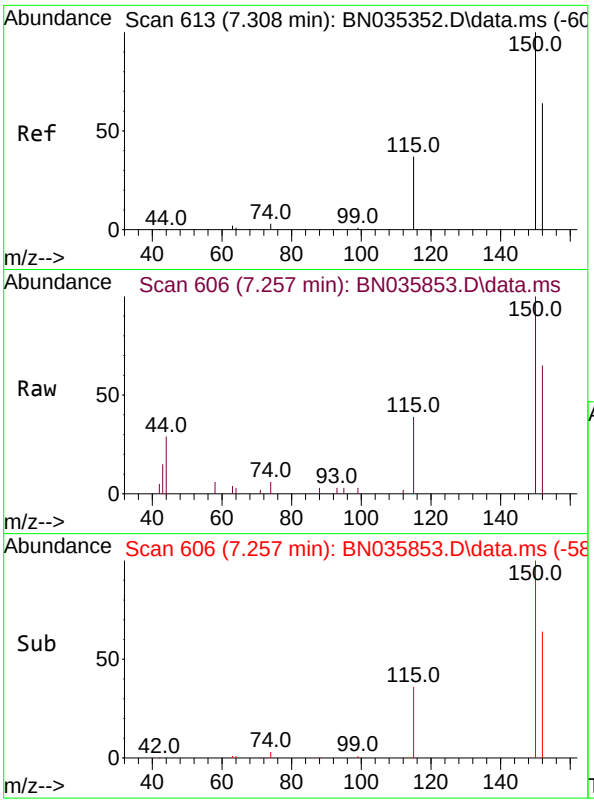
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122624\
Data File : BN035853.D
Acq On : 26 Dec 2024 14:54
Operator : RC/JU
Sample : PB165724BSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Quant Time: Dec 27 00:41:25 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



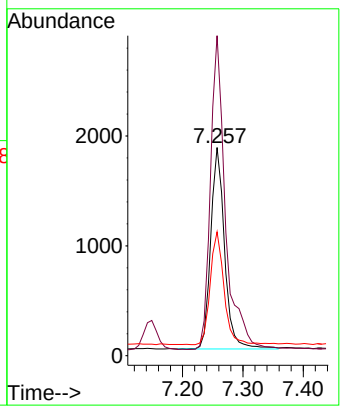


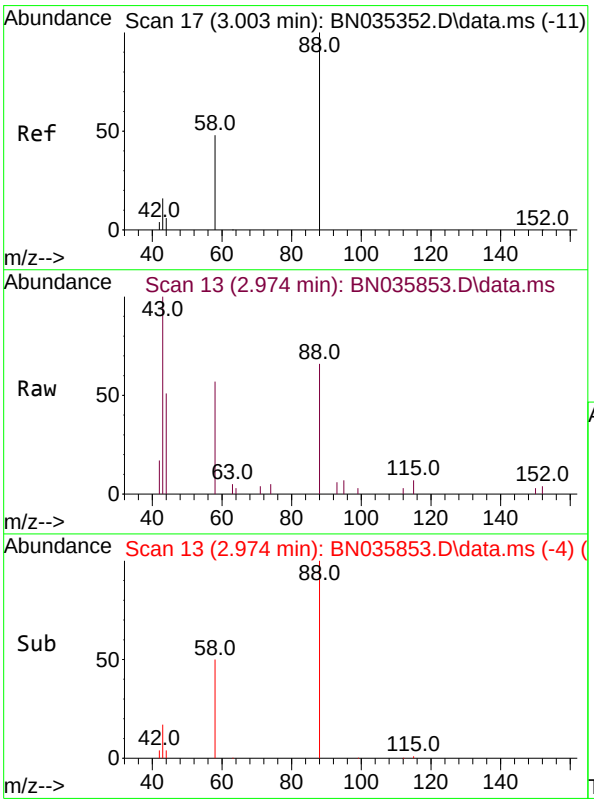
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:152 Resp: 2938

Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.0	186.0
115	59.5	49.6	74.4

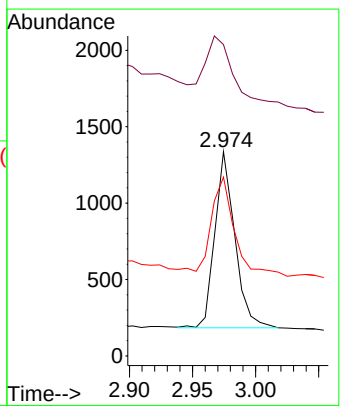


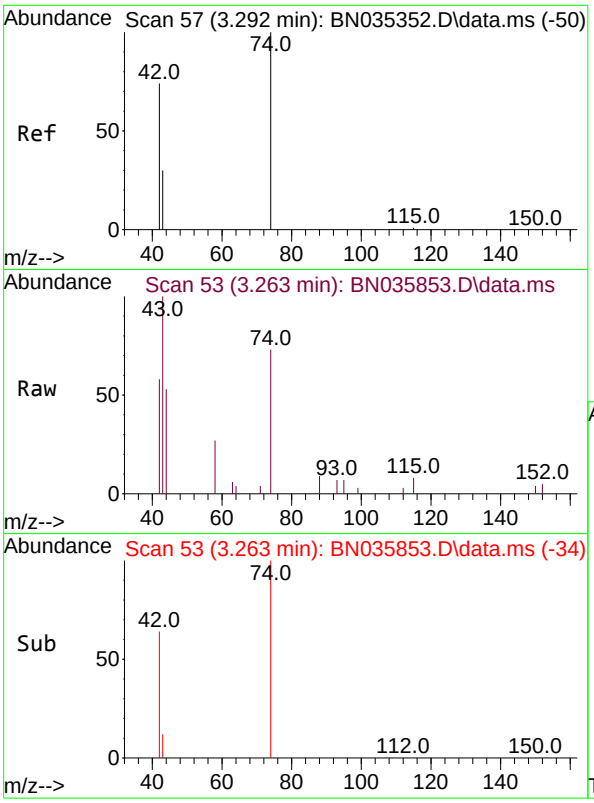


#2
1,4-Dioxane
Concen: 0.452 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 88 Resp: 1269

Ion	Ratio	Lower	Upper
88	100		
43	50.4	17.2	25.8#
58	57.4	44.5	66.7



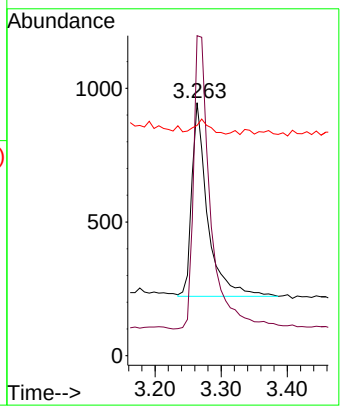


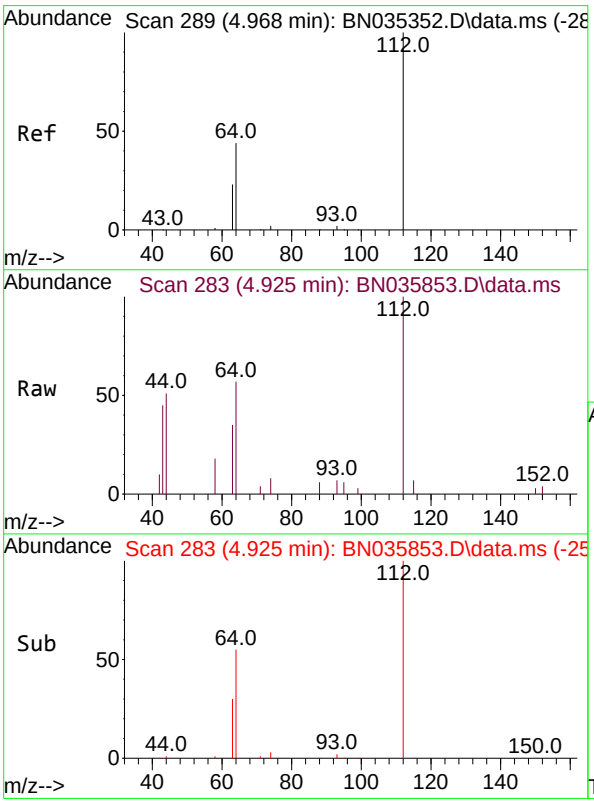
#3
n-Nitrosodimethylamine
Concen: 0.516 ng
RT: 3.263 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion: 42 Resp: 1206

Ion	Ratio	Lower	Upper
42	100		
74	165.3	124.9	187.3
44	6.5	2.2	3.4#

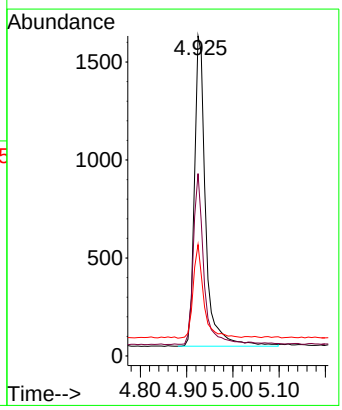


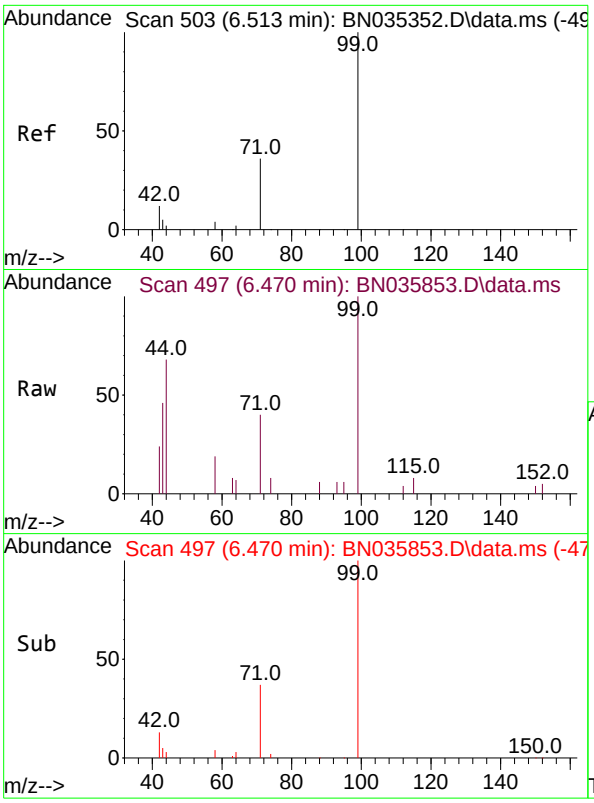


#4
2-Fluorophenol
Concen: 0.364 ng
RT: 4.925 min Scan# 283
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:112 Resp: 2679

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.8	59.8
63	28.3	21.0	31.6



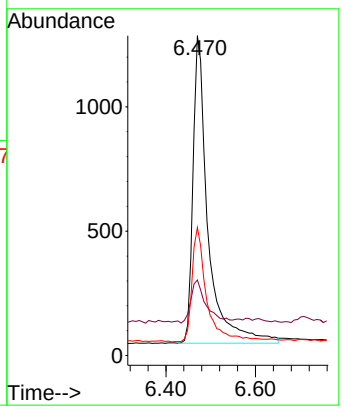


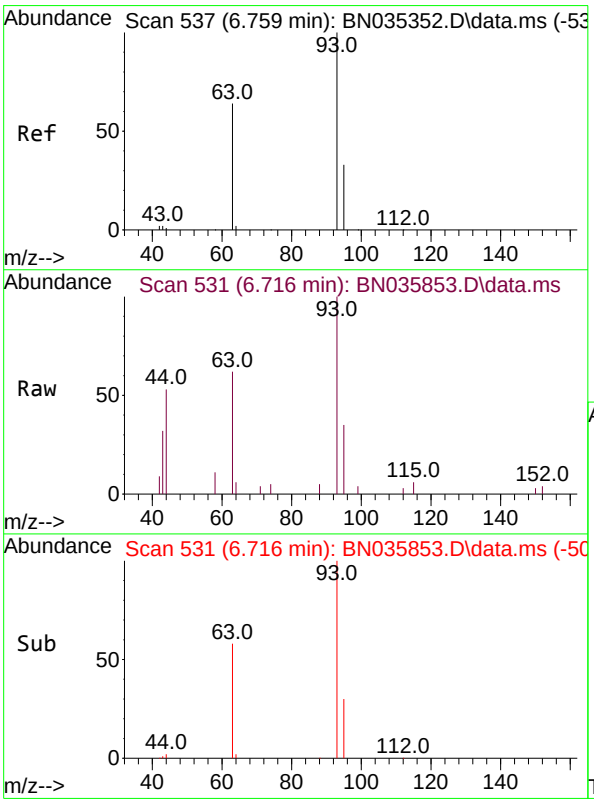
#5
Phenol-d6
Concen: 0.325 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion: 99 Resp: 2872

Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.4	17.2
71	36.4	29.3	43.9

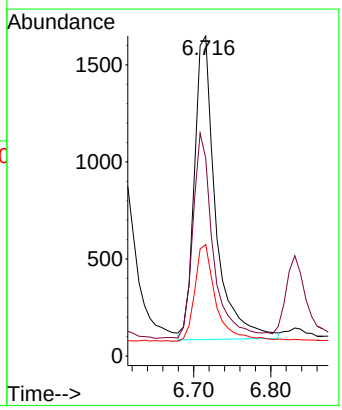


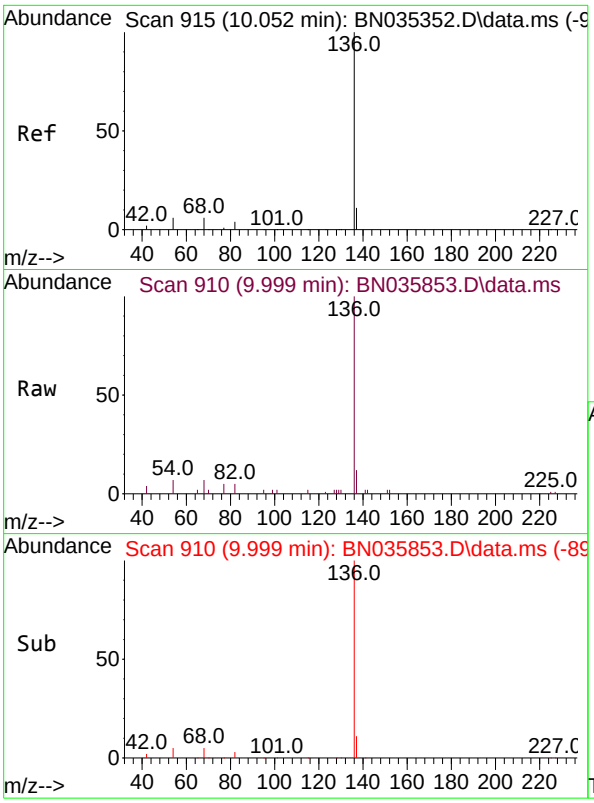


#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.716 min Scan# 531
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 93 Resp: 3004

Ion	Ratio	Lower	Upper
93	100		
63	64.0	50.4	75.6
95	32.8	25.7	38.5



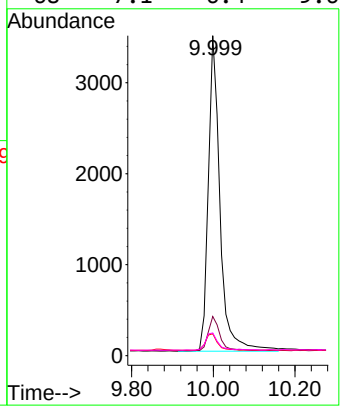


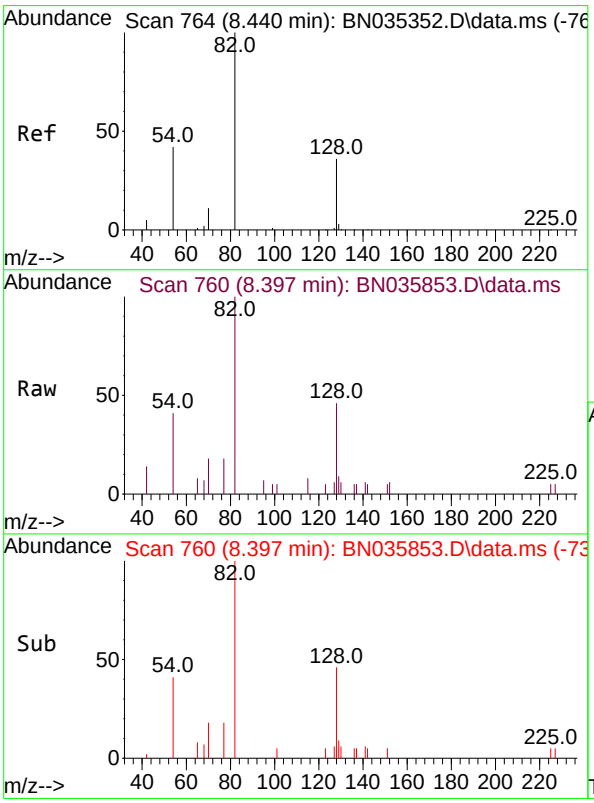
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:136 Resp: 6908

Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.2	15.2
54	6.9	6.1	9.1
68	7.1	6.4	9.6

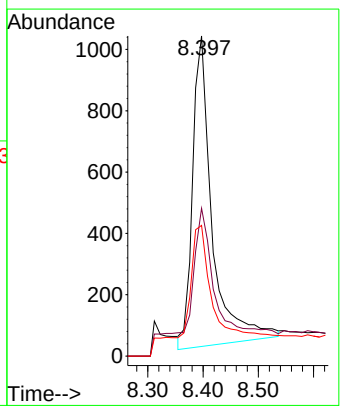


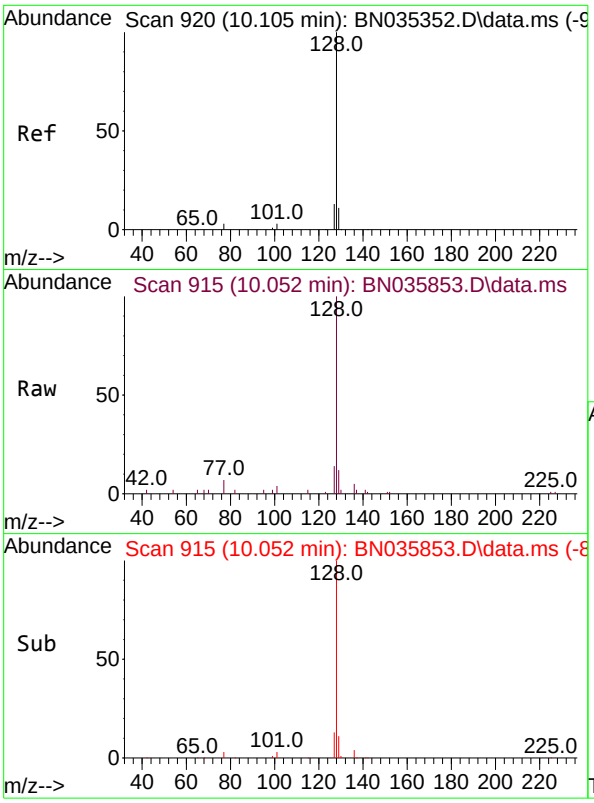


#8
Nitrobenzene-d5
Concen: 0.592 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 82 Resp: 2496

Ion	Ratio	Lower	Upper
82	100		
128	46.2	33.4	50.0
54	40.8	36.7	55.1



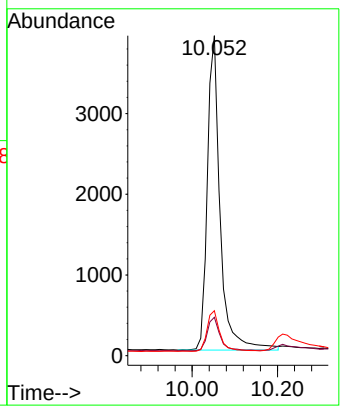


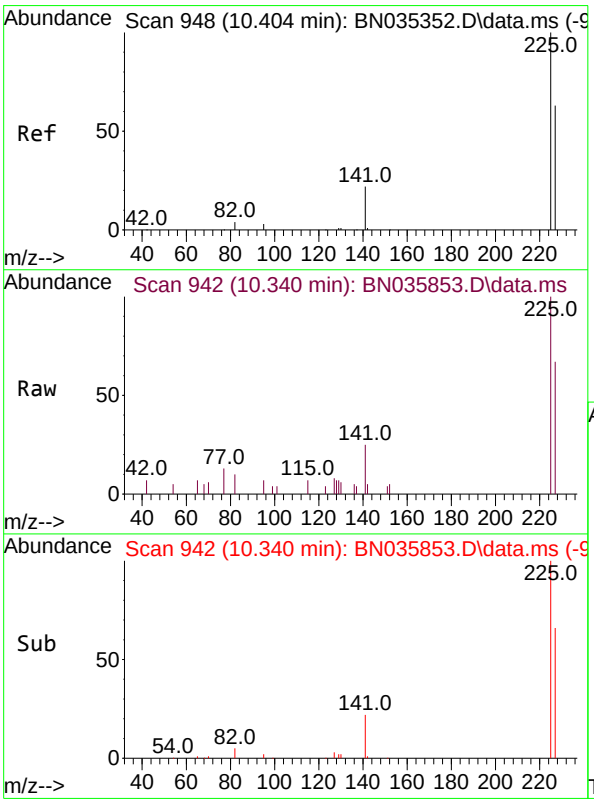
#9
Naphthalene
Concen: 0.443 ng
RT: 10.052 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:128 Resp: 8072

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.0	11.4	17.2

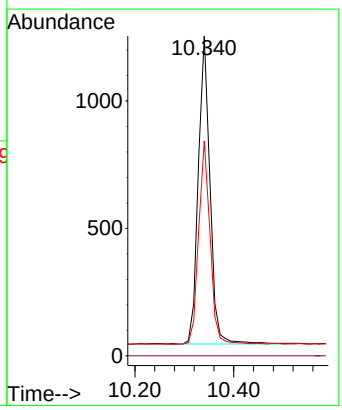


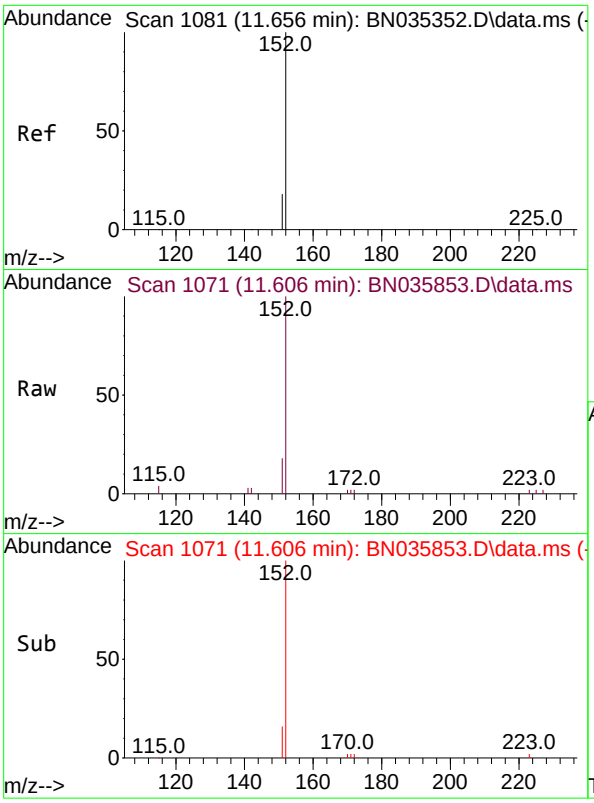


#10
Hexachlorobutadiene
Concen: 0.470 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:225 Resp: 1977

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	51.3	76.9



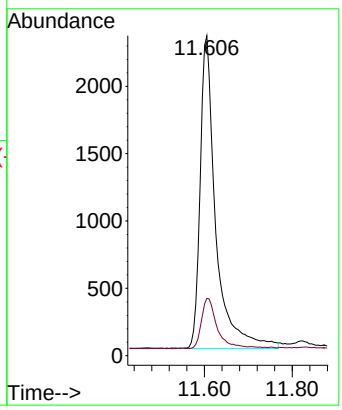


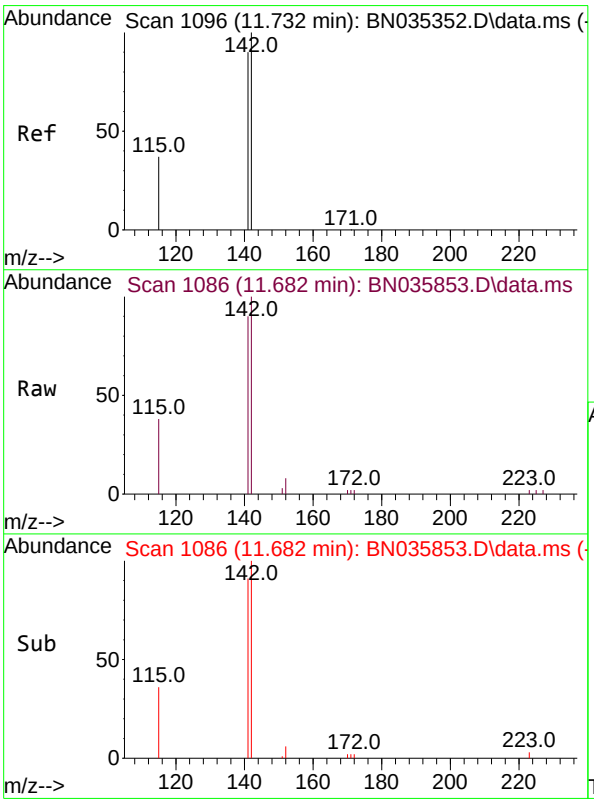
#11
2-Methylnaphthalene-d10
Concen: 0.529 ng
RT: 11.606 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:152 Resp: 5721

Ion	Ratio	Lower	Upper
152	100		
151	16.5	16.6	25.0#

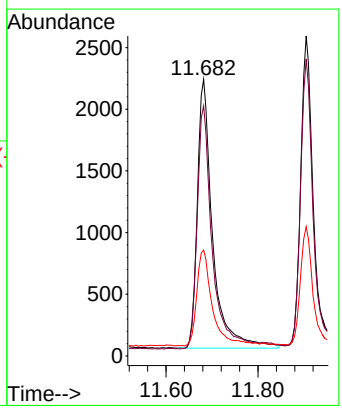


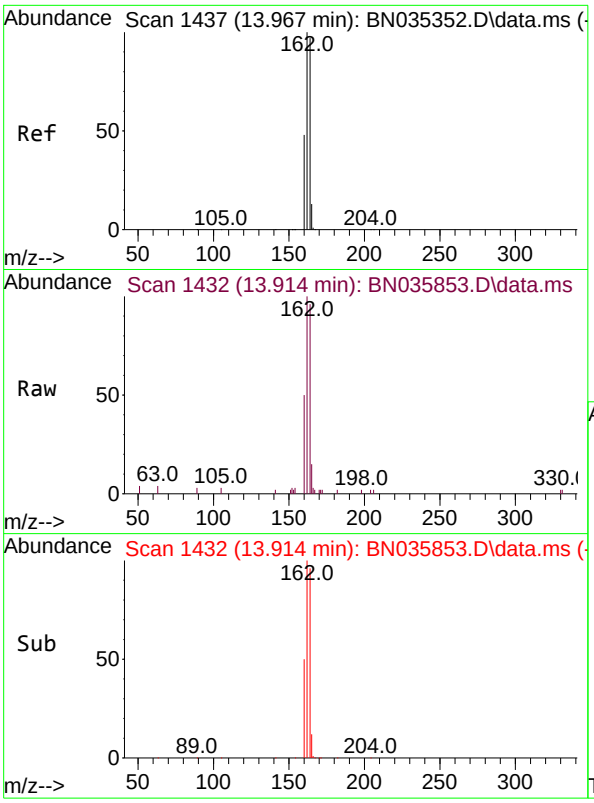


#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:142 Resp: 5041

Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.2	108.4
115	38.3	31.4	47.0



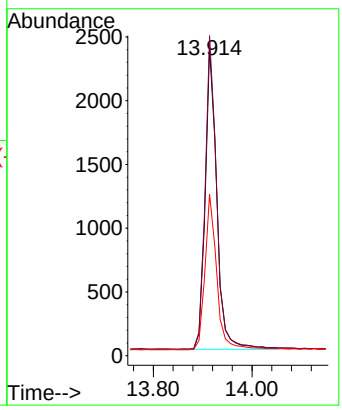


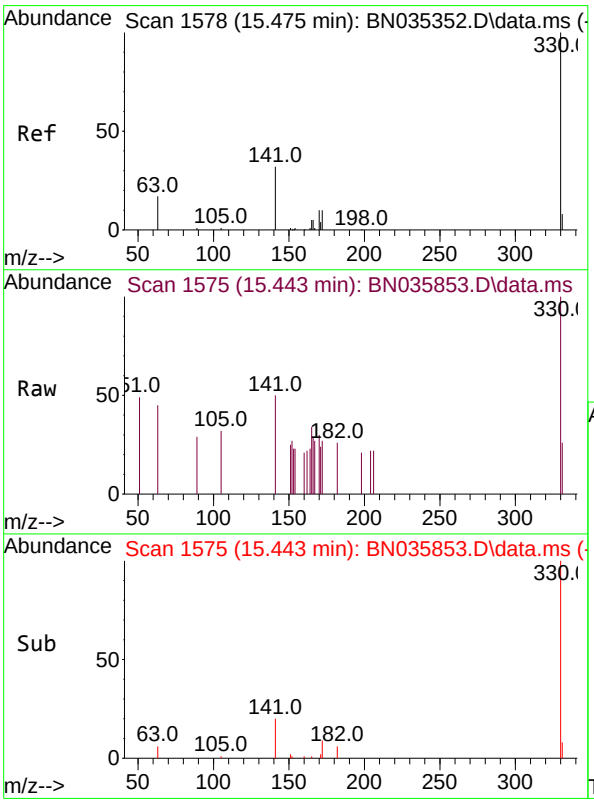
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:164 Resp: 3870

Ion	Ratio	Lower	Upper
164	100		
162	104.0	82.2	123.2
160	52.5	40.1	60.1

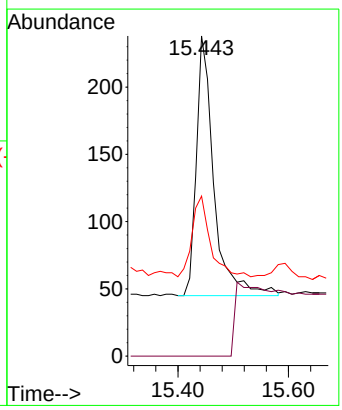


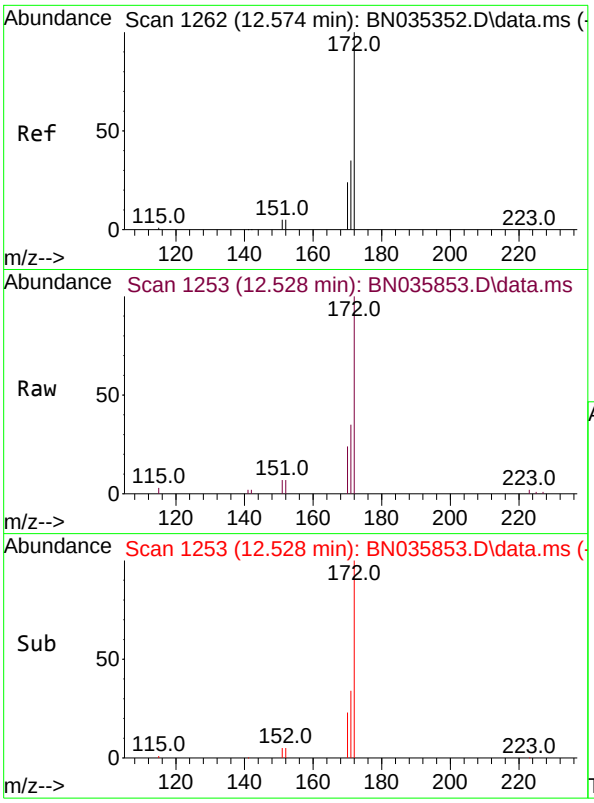


#14
2,4,6-Tribromophenol
Concen: 0.162 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:330 Resp: 445

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	31.2	26.6	40.0



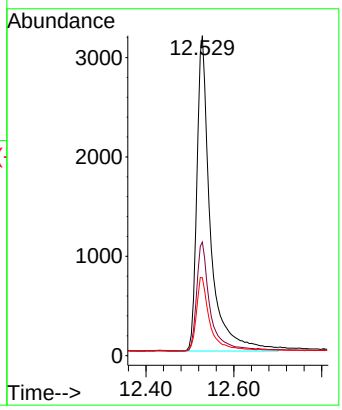


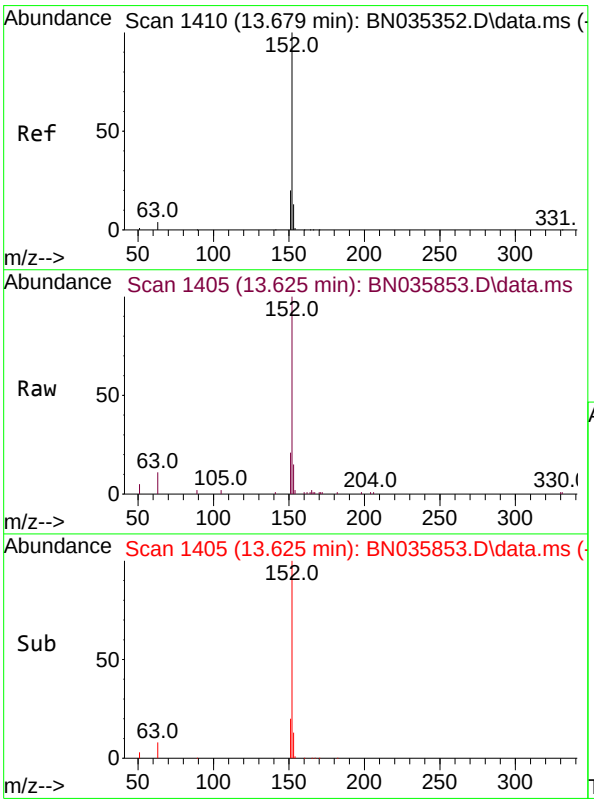
#15
2-Fluorobiphenyl
Concen: 0.466 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:172 Resp: 6817

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.0	43.4
170	24.3	19.8	29.8

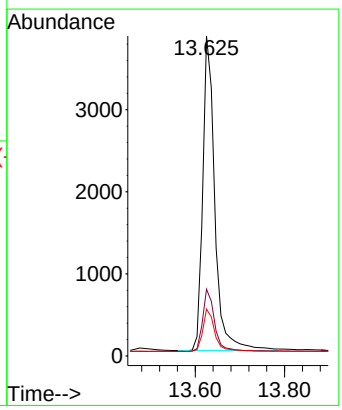


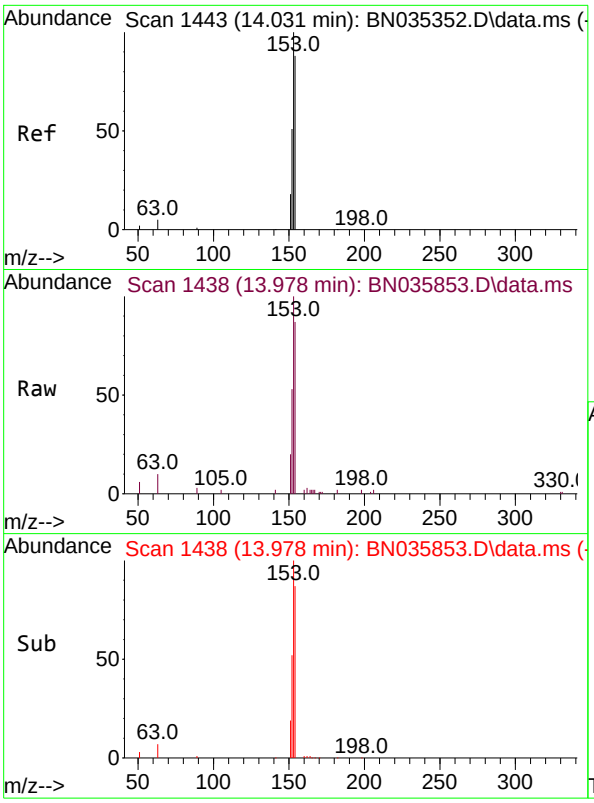


#16
Acenaphthylene
Concen: 0.443 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 7205

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2
153	13.3	10.4	15.6



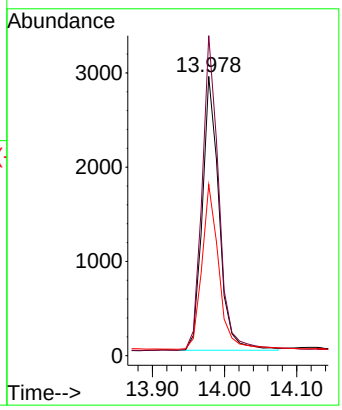


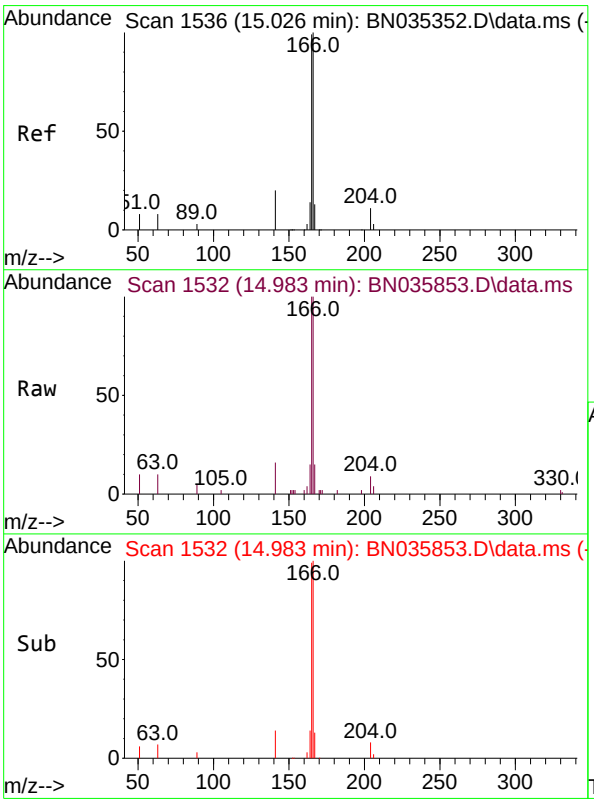
#17
Acenaphthene
Concen: 0.434 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:154 Resp: 4687

Ion	Ratio	Lower	Upper
154	100		
153	116.4	92.6	139.0
152	61.2	49.0	73.6

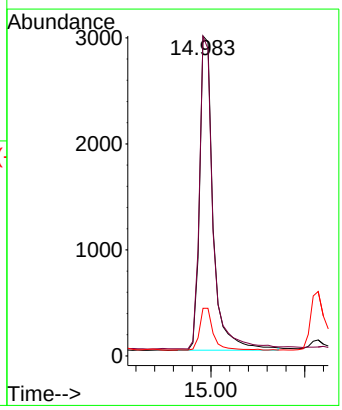


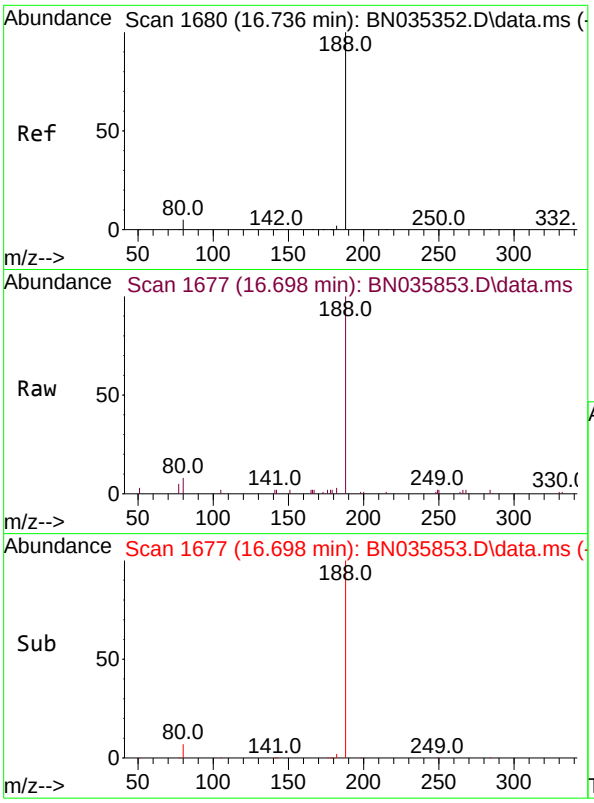


#18
Fluorene
Concen: 0.385 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:166 Resp: 5947

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.7	119.5
167	13.3	10.8	16.2



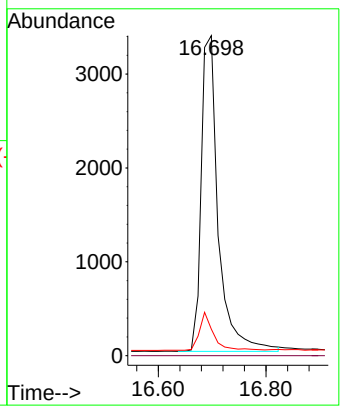


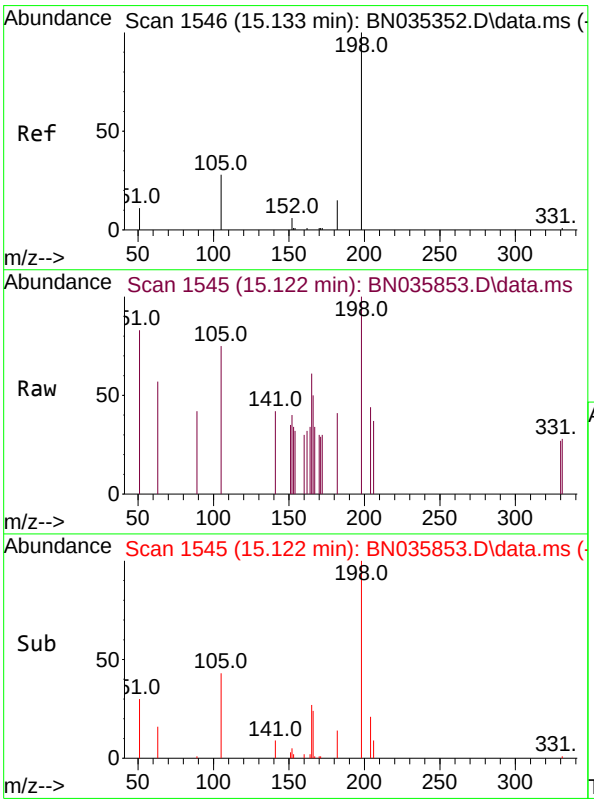
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.698 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:188 Resp: 7401

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.3	4.6	6.8#

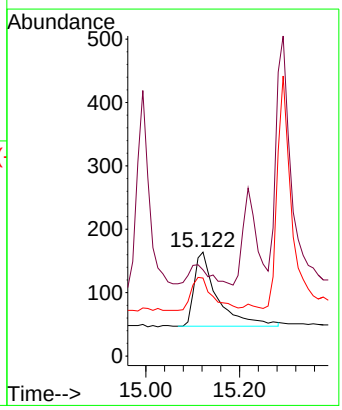


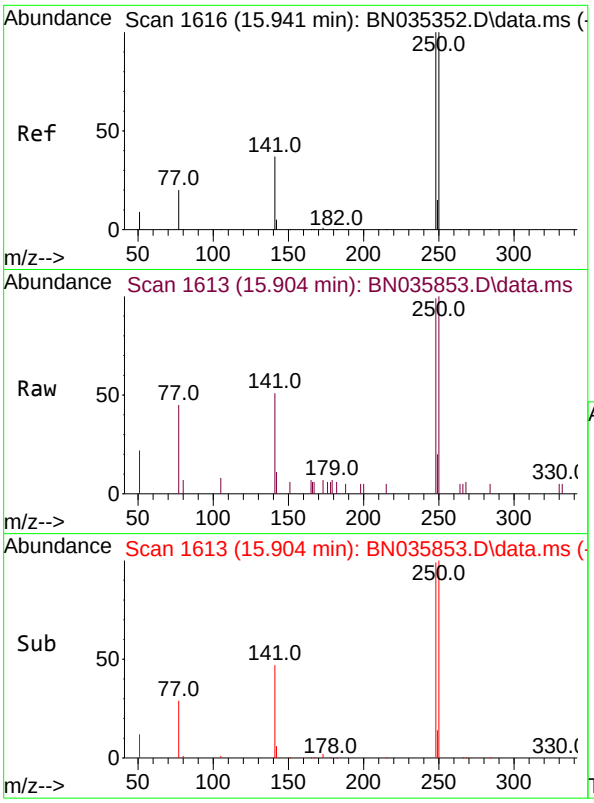


#20
4,6-Dinitro-2-methylphenol
Concen: 0.554 ng
RT: 15.122 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:198 Resp: 403

Ion	Ratio	Lower	Upper
198	100		
51	82.9	46.5	69.7#
105	75.0	45.3	67.9#



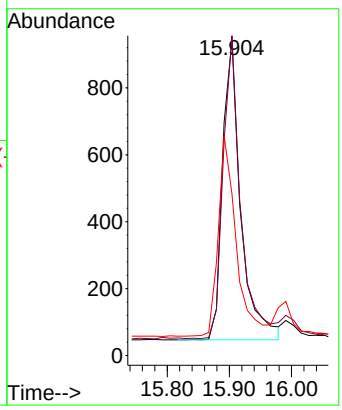


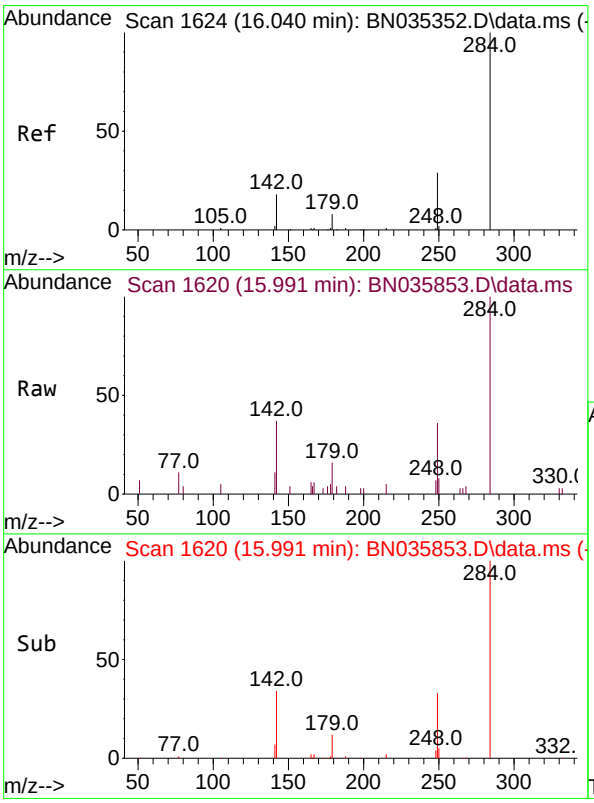
#21
4-Bromophenyl-phenylether
Concen: 0.421 ng
RT: 15.904 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:248 Resp: 1824

Ion	Ratio	Lower	Upper
248	100		
250	101.3	80.6	120.8
141	51.2	31.5	47.3#

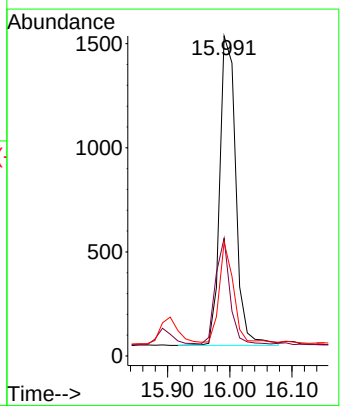


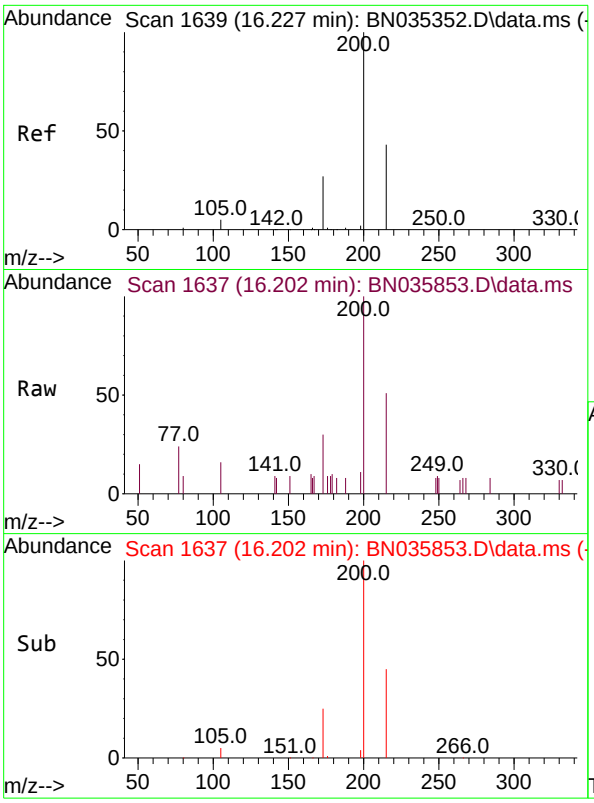


#22
Hexachlorobenzene
Concen: 0.522 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:284 Resp: 2652

Ion	Ratio	Lower	Upper
284	100		
142	30.7	26.7	40.1
249	28.9	24.6	36.8



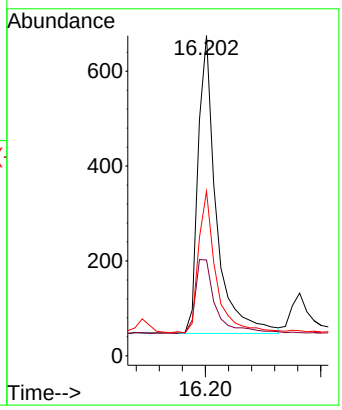


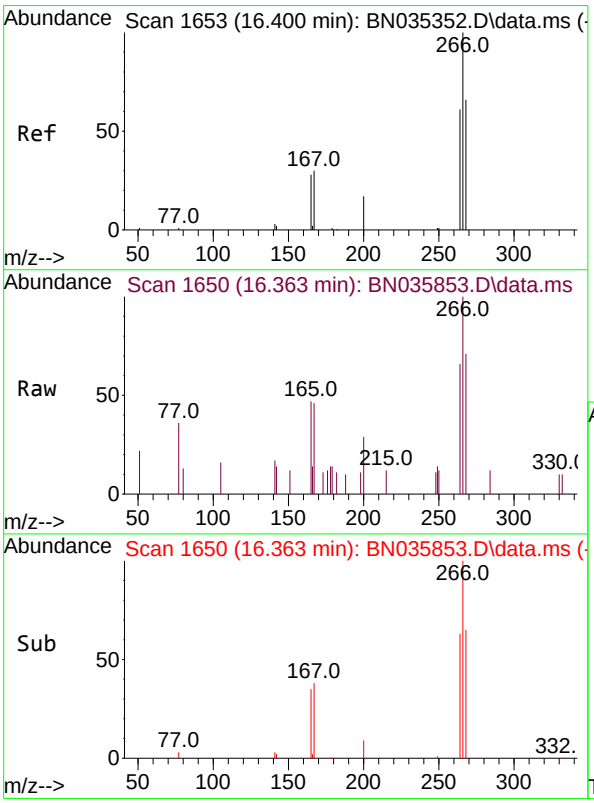
#23
Atrazine
Concen: 0.445 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:200 Resp: 1370

Ion	Ratio	Lower	Upper
200	100		
173	29.9	24.1	36.1
215	51.4	36.9	55.3

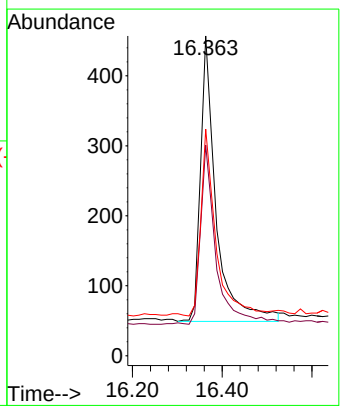


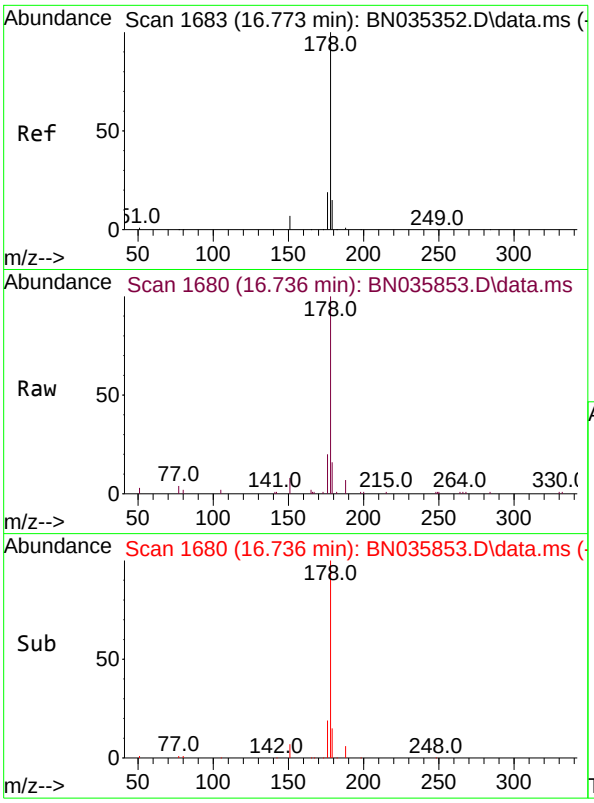


#24
Pentachlorophenol
Concen: 0.445 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:266 Resp: 985

Ion	Ratio	Lower	Upper
266	100		
264	62.0	42.3	63.5
268	61.4	43.3	64.9



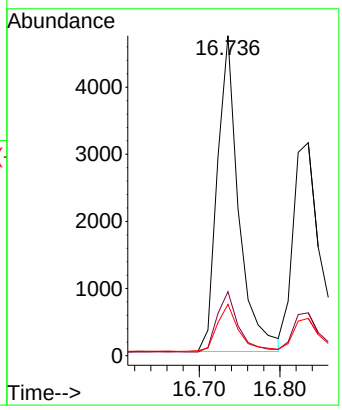


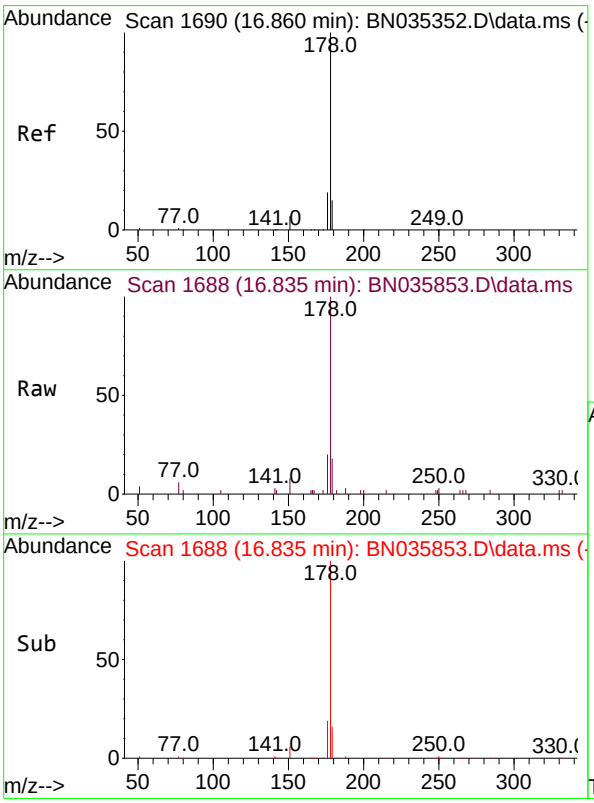
#25
Phenanthrene
Concen: 0.427 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:178 Resp: 8677

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.4	12.3	18.5

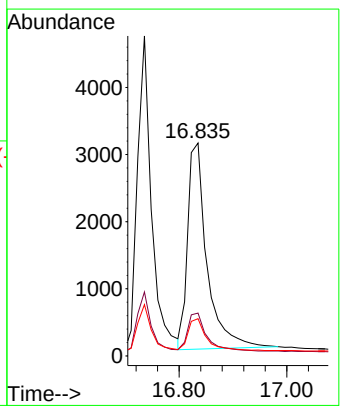


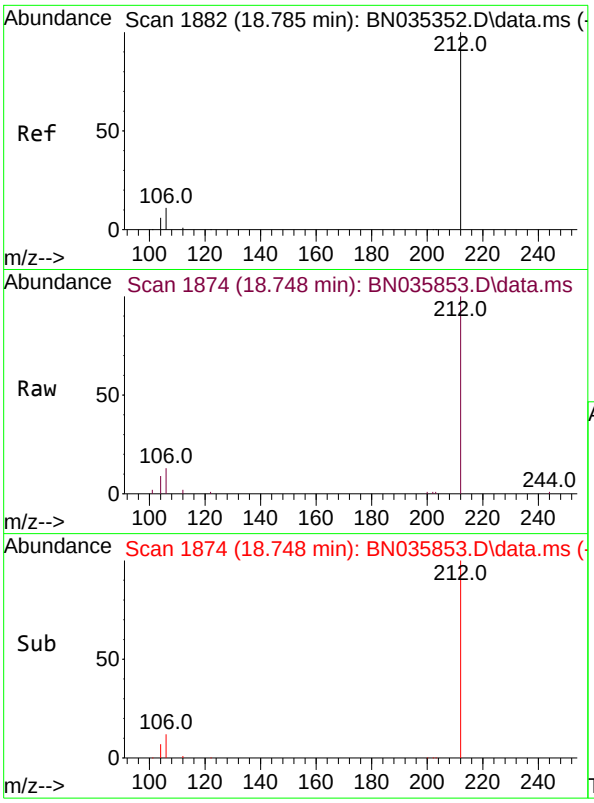


#26
Anthracene
Concen: 0.416 ng
RT: 16.835 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:178 Resp: 7654

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.6	18.8



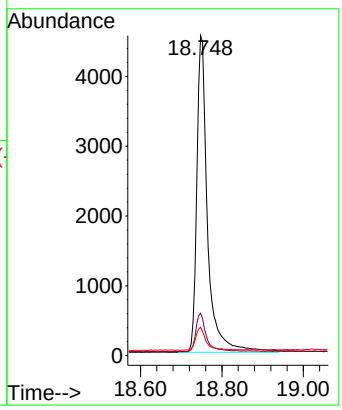


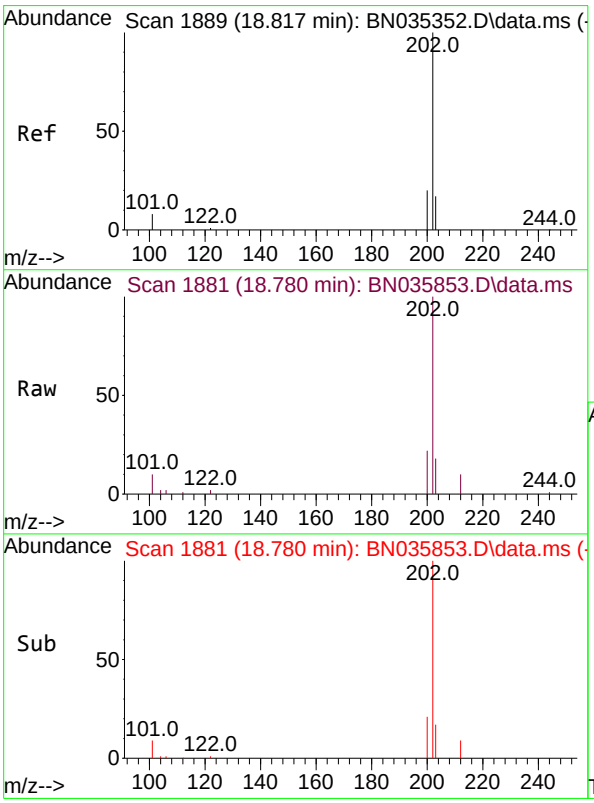
#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 18.748 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:212 Resp: 8300

Ion	Ratio	Lower	Upper
212	100		
106	11.5	9.2	13.8
104	7.2	5.3	7.9

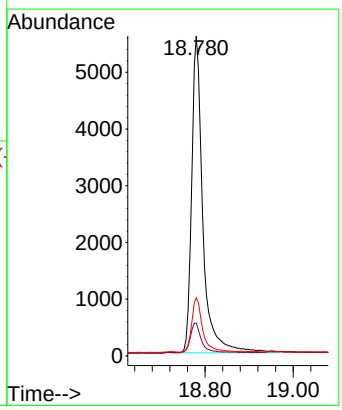


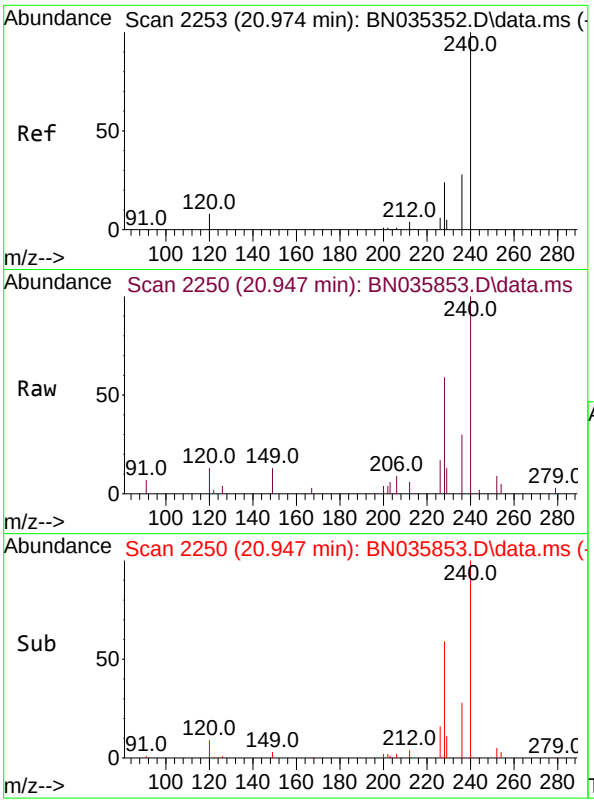


#28
Fluoranthene
Concen: 0.360 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 9853

Ion	Ratio	Lower	Upper
202	100		
101	9.0	7.4	11.0
203	16.6	13.7	20.5



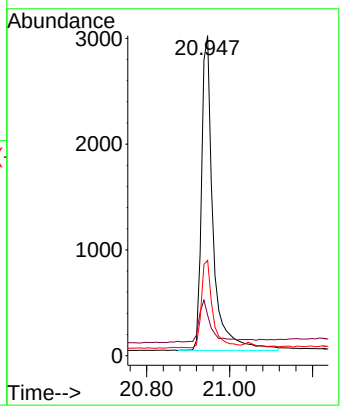


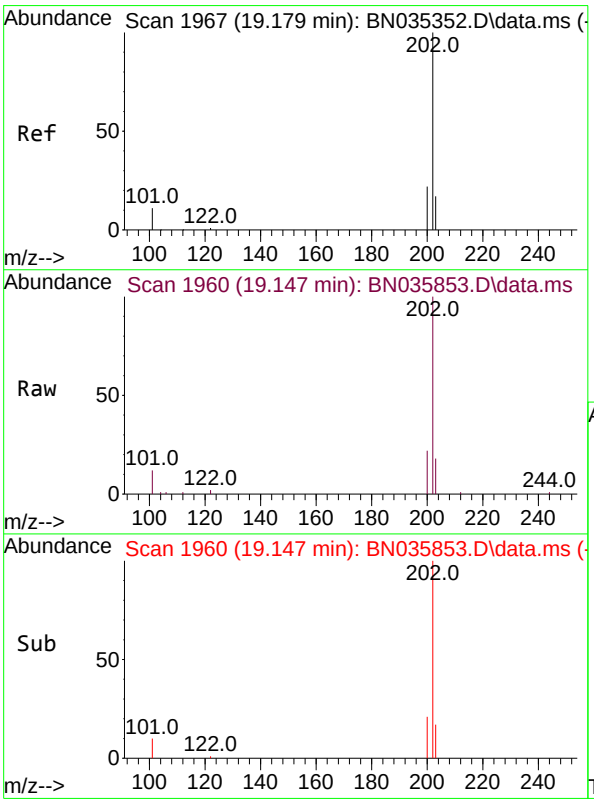
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:240 Resp: 5744

Ion	Ratio	Lower	Upper
240	100		
120	12.7	7.9	11.9#
236	29.8	22.9	34.3

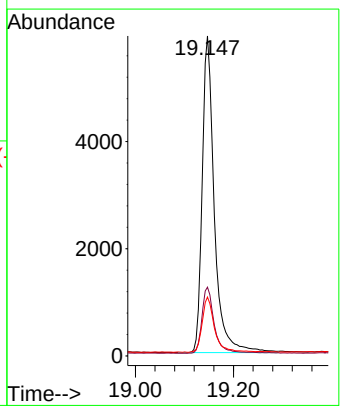


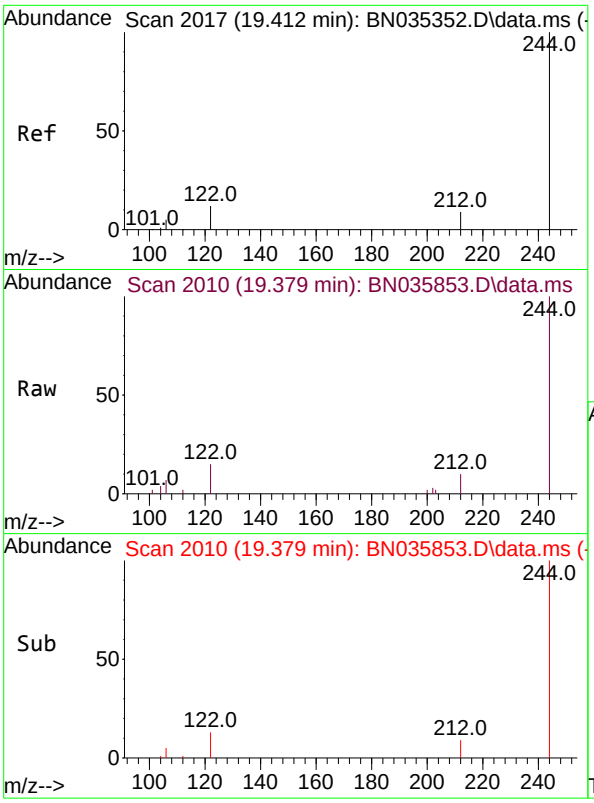


#30
Pyrene
Concen: 0.479 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:202 Resp: 10152

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.7	14.3	21.5



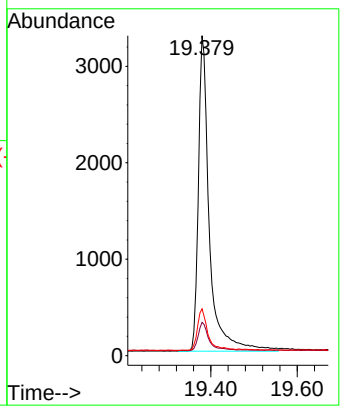


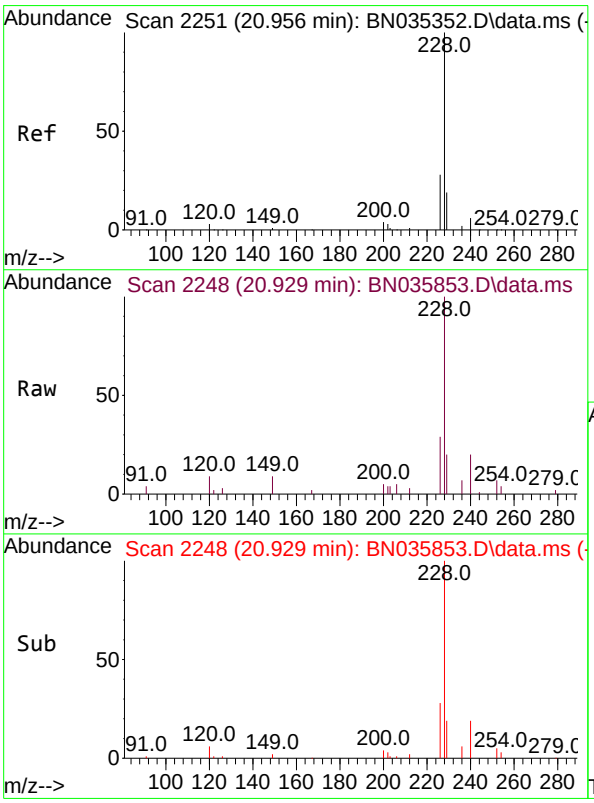
#31
Terphenyl-d14
Concen: 0.511 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:244 Resp: 5786

Ion	Ratio	Lower	Upper
244	100		
212	10.4	8.1	12.1
122	14.6	10.3	15.5

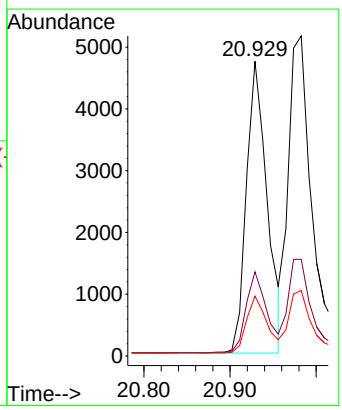


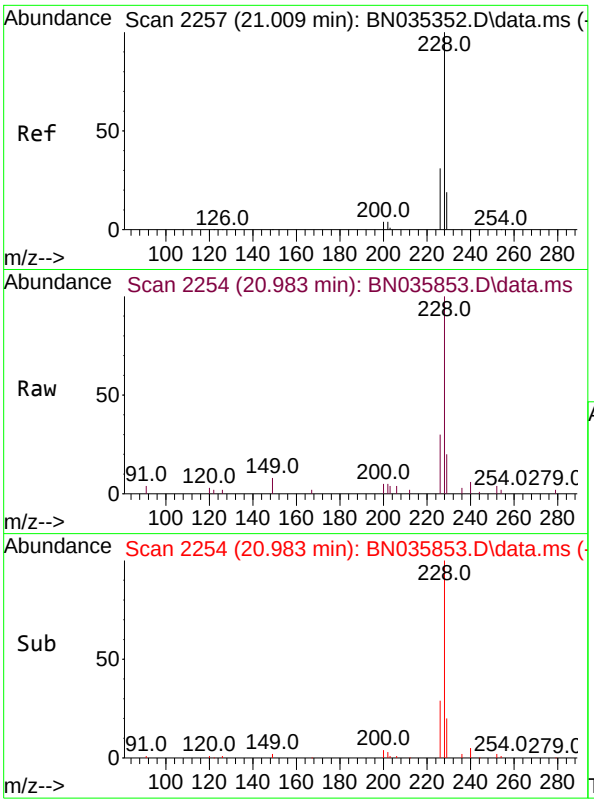


#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:228 Resp: 7921

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	20.3	15.8	23.8



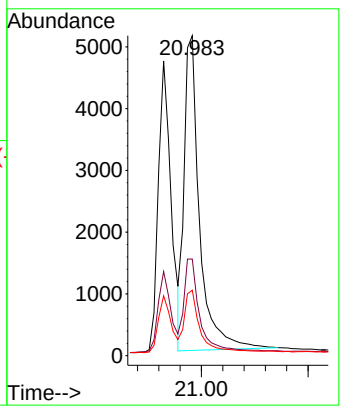


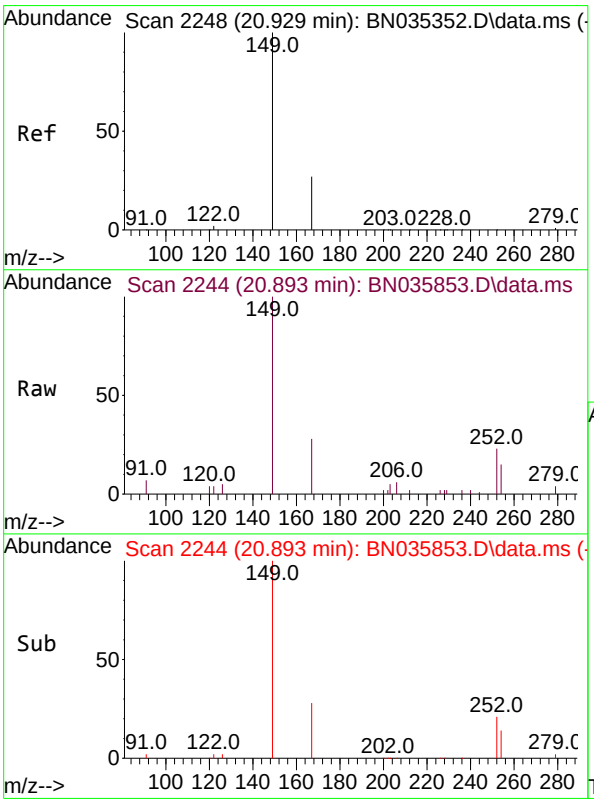
#33
Chrysene
Concen: 0.493 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:228 Resp: 10214

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	20.5	15.9	23.9

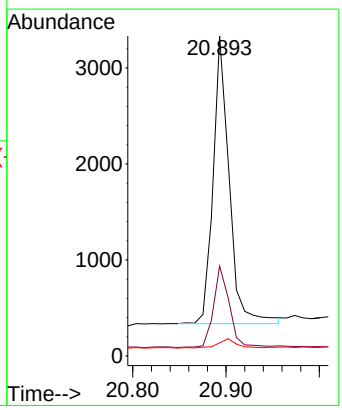


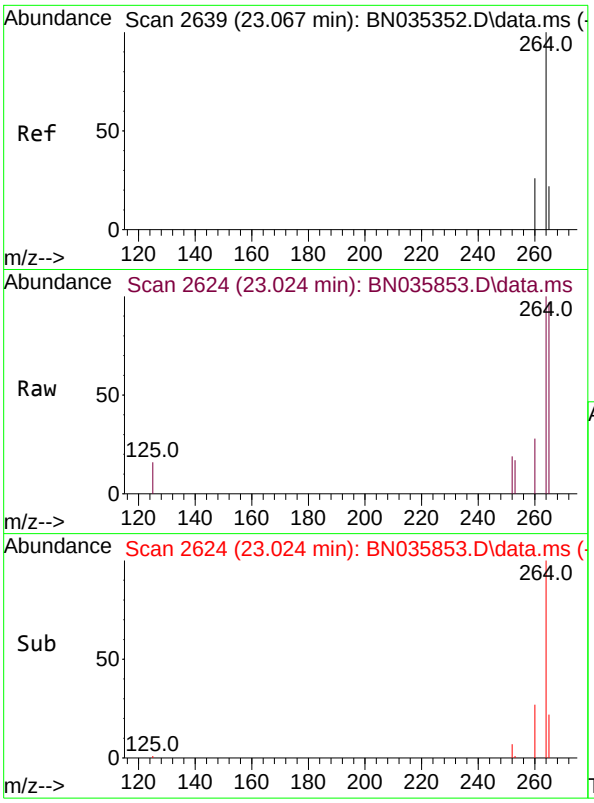


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.451 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:149 Resp: 3576

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.2	33.4
279	3.7	2.7	4.1



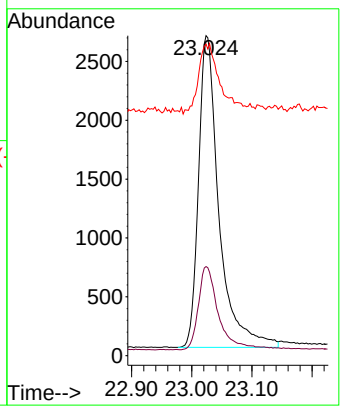


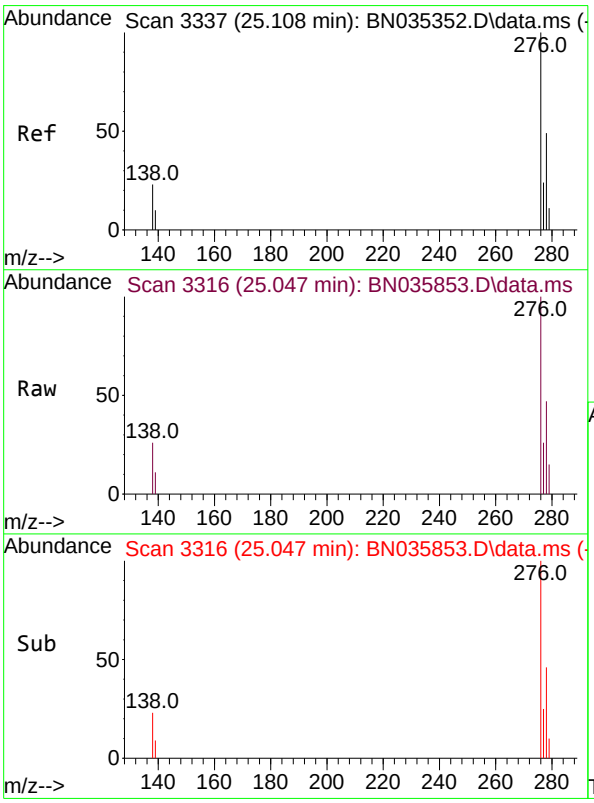
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.024 min Scan# 2
Delta R.T. -0.018 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:264 Resp: 6254

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.4	32.2
265	97.4	40.2	60.4#

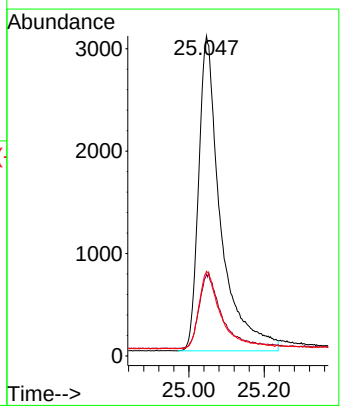


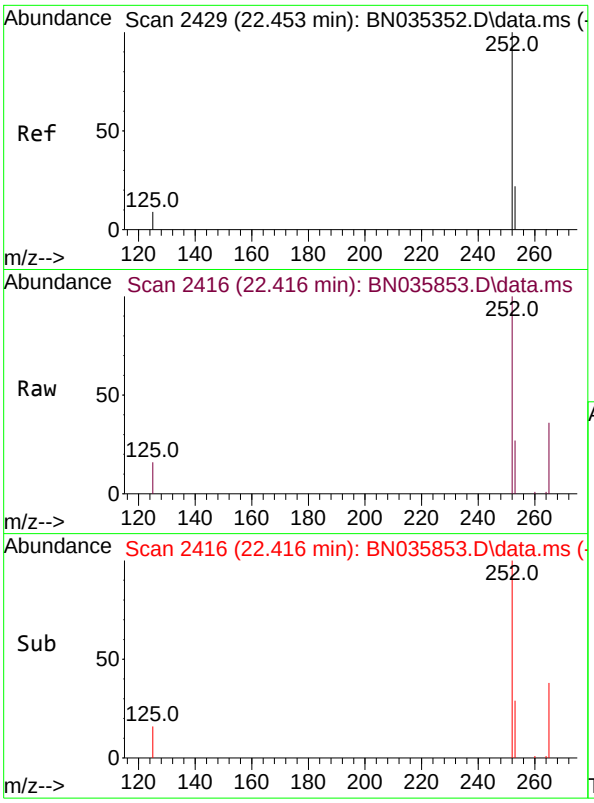


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.510 ng
RT: 25.047 min Scan# 3316
Delta R.T. -0.020 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:276 Resp: 12472

Ion	Ratio	Lower	Upper
276	100		
138	23.9	19.4	29.0
277	24.8	19.8	29.6



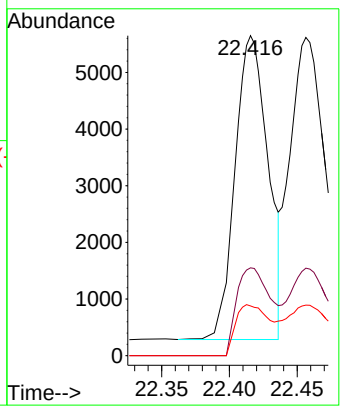


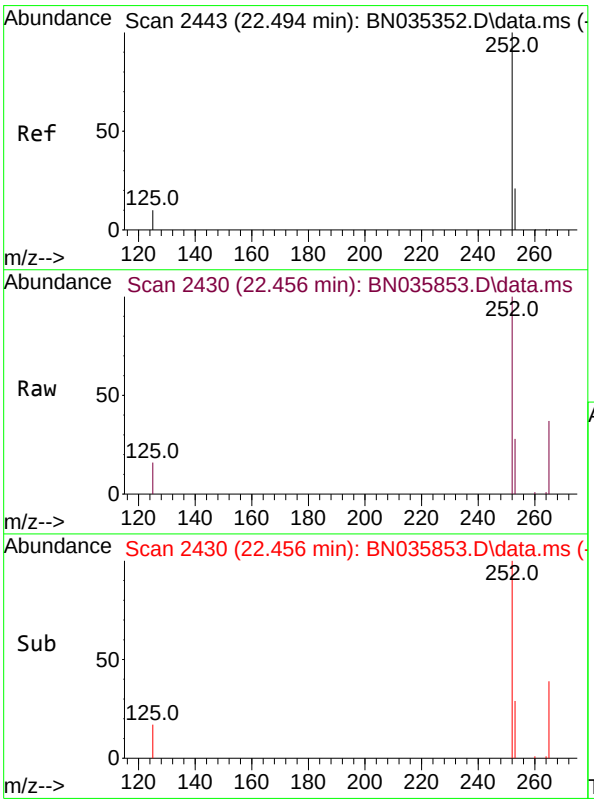
#37
Benzo(b)fluoranthene
Concen: 0.584 ng
RT: 22.416 min Scan# 24
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:252 Resp: 13352

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.6	29.4
125	15.6	9.6	14.4#

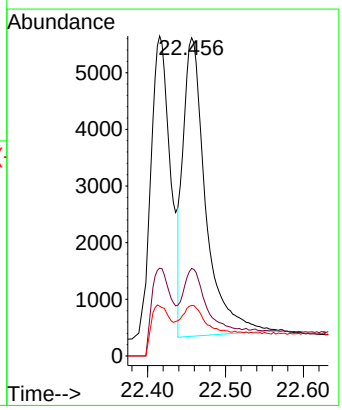


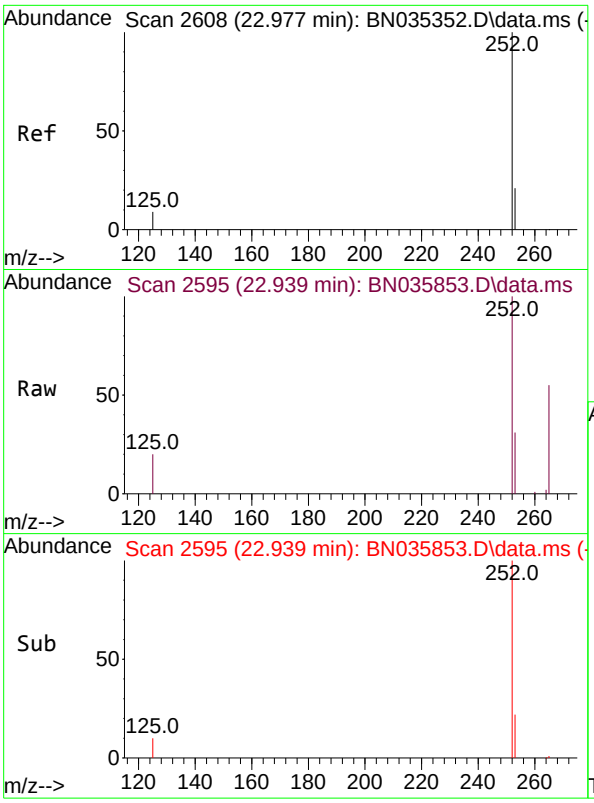


#38
Benzo(k)fluoranthene
Concen: 0.473 ng
RT: 22.456 min Scan# 2430
Delta R.T. -0.015 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:252 Resp: 10641

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.5	29.3
125	15.9	10.2	15.4#



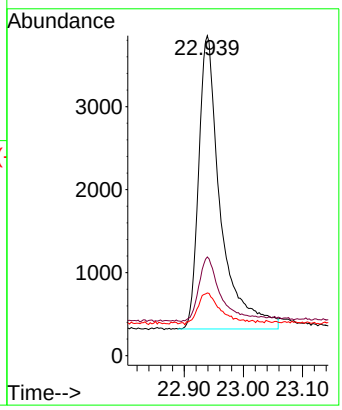


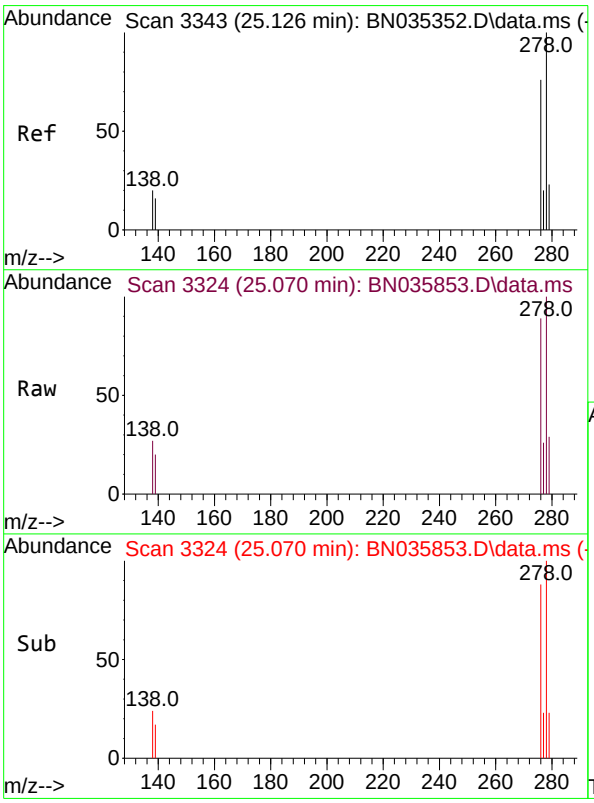
#39
Benzo(a)pyrene
Concen: 0.481 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:252 Resp: 9066

Ion	Ratio	Lower	Upper
252	100		
253	30.9	20.2	30.4#
125	19.6	10.9	16.3#

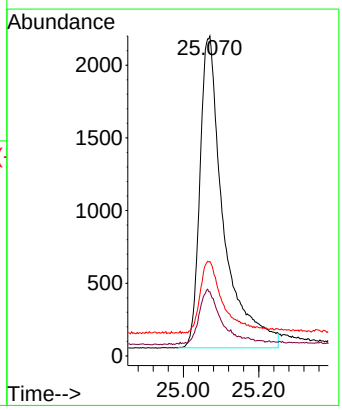


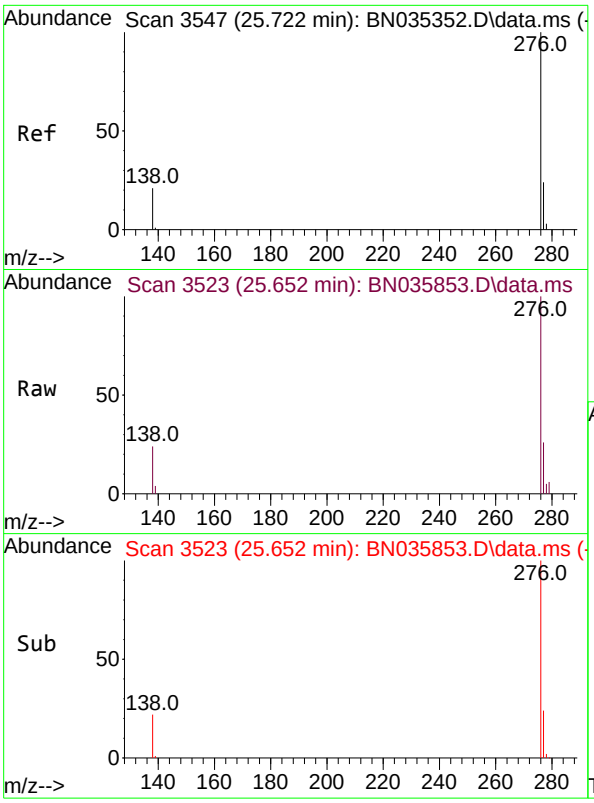


#40
Dibenzo(a,h)anthracene
Concen: 0.483 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Tgt Ion:278 Resp: 9318

Ion	Ratio	Lower	Upper
278	100		
139	20.0	14.2	21.4
279	29.5	20.5	30.7



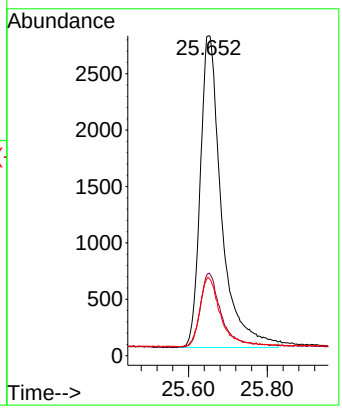


#41
Benzo(g,h,i)perylene
Concen: 0.513 ng
RT: 25.652 min Scan# 3
Delta R.T. -0.026 min
Lab File: BN035853.D
Acq: 26 Dec 2024 14:54

Instrument :
BNA_N
ClientSampleId :
PB165724BSD

Tgt Ion:276 Resp: 10352

Ion	Ratio	Lower	Upper
276	100		
277	25.8	19.9	29.9
138	24.2	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

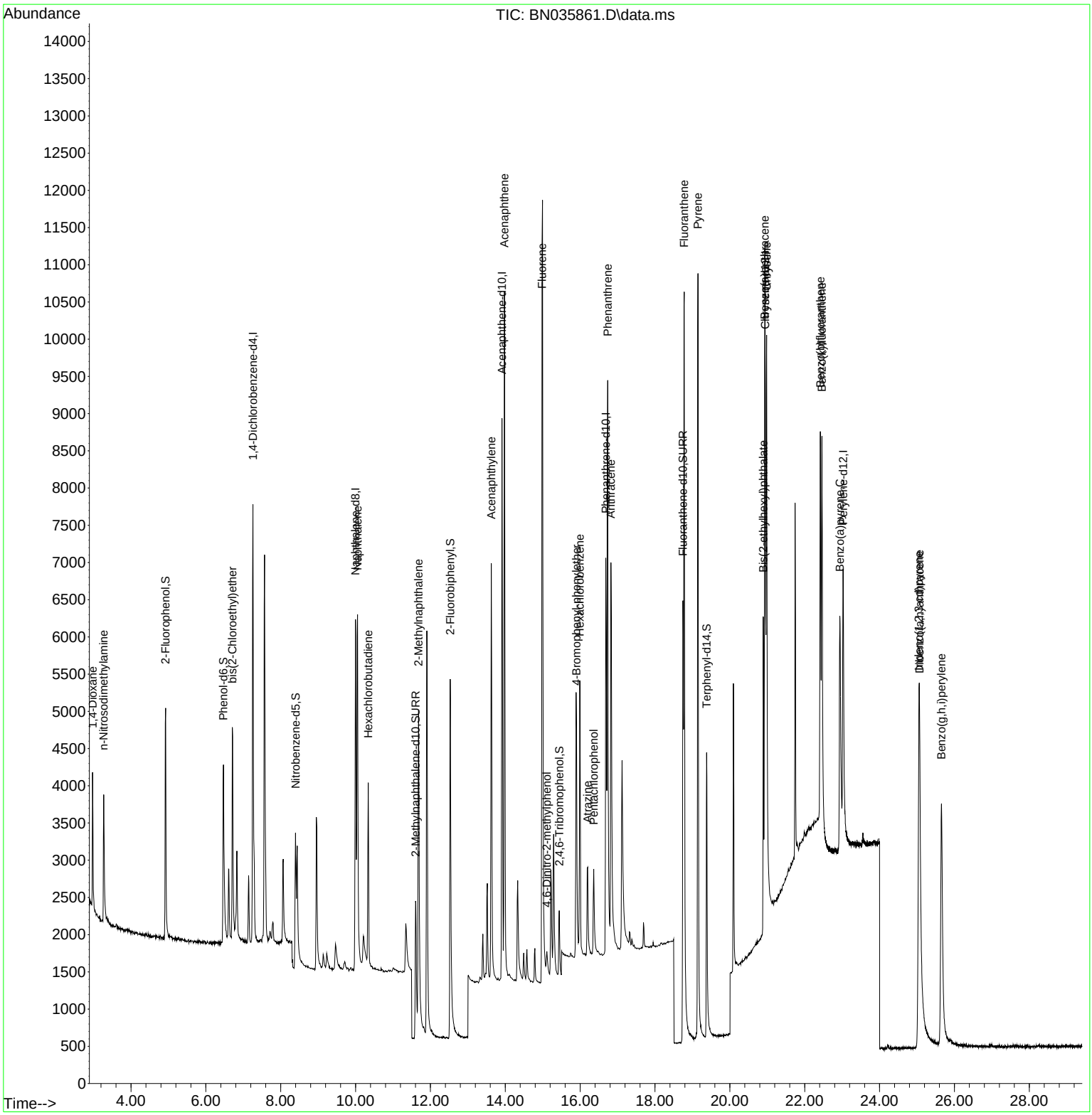
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.257	152	3087	0.400	ng		-0.01
7) Naphthalene-d8	9.999	136	7239	0.400	ng		-0.02
13) Acenaphthene-d10	13.914	164	4472	0.400	ng		-0.02
19) Phenanthrene-d10	16.686	188	9373	0.400	ng		#-0.01
29) Chrysene-d12	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

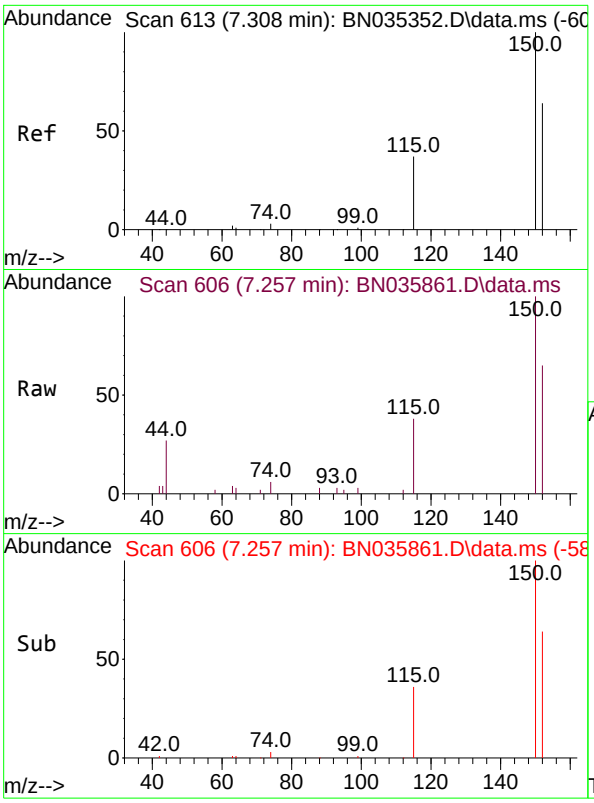
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



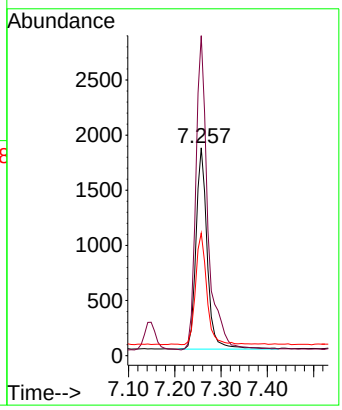


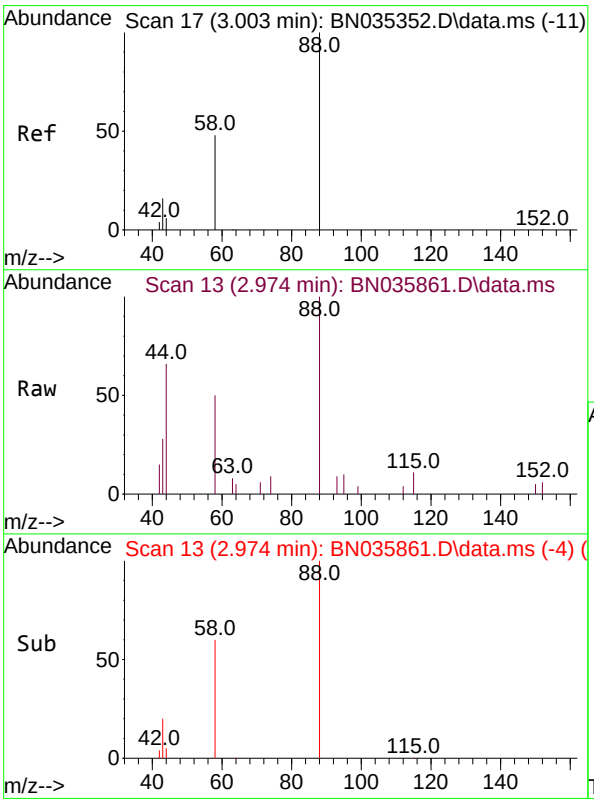
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.257 min Scan# 6(
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

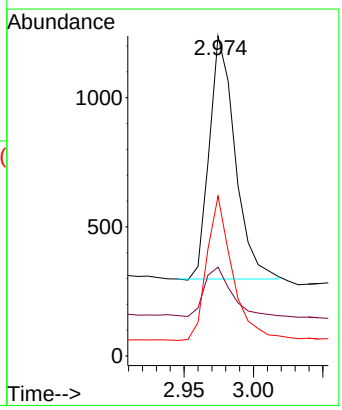


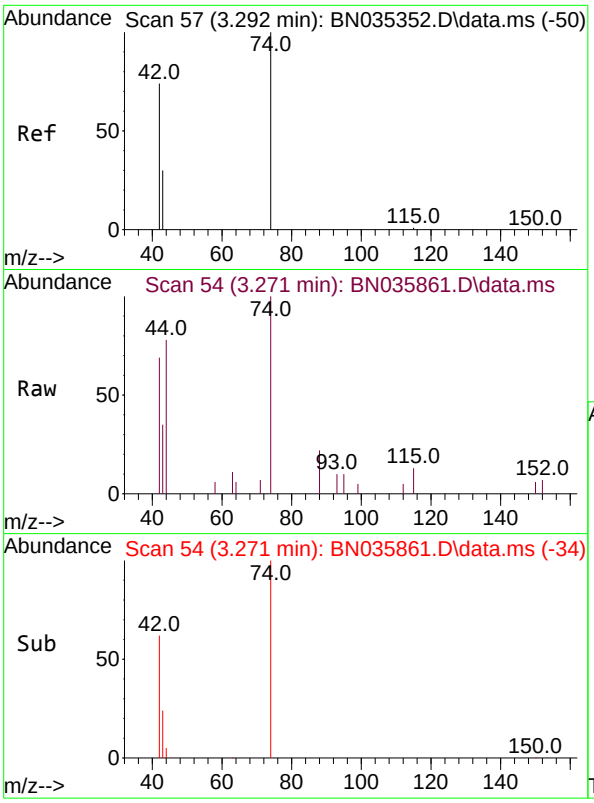


#2
1,4-Dioxane
Concen: 0.412 ng
RT: 2.974 min Scan# 13
Delta R.T. -0.008 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



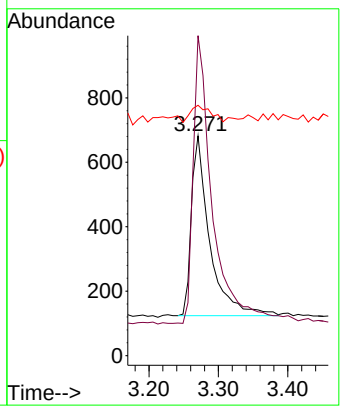


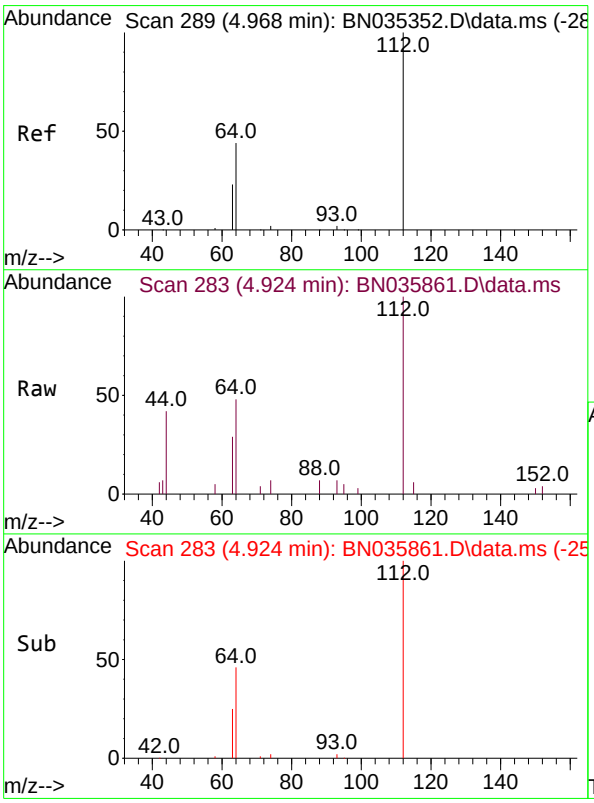
#3
n-Nitrosodimethylamine
Concen: 0.415 ng
RT: 3.271 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

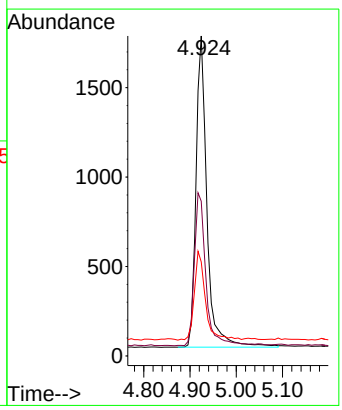


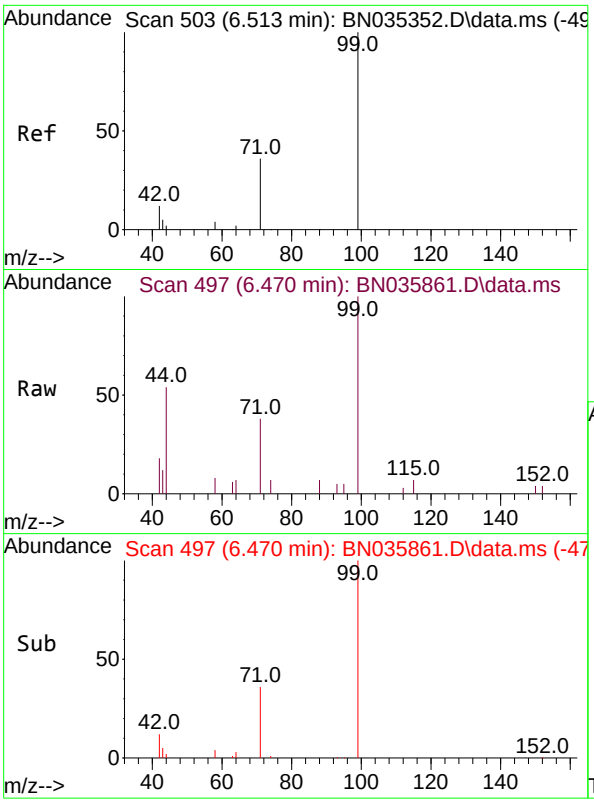


#4
2-Fluorophenol
Concen: 0.372 ng
RT: 4.924 min Scan# 283
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



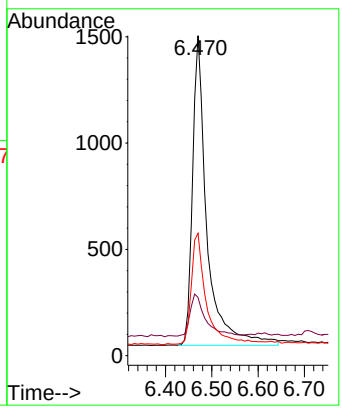


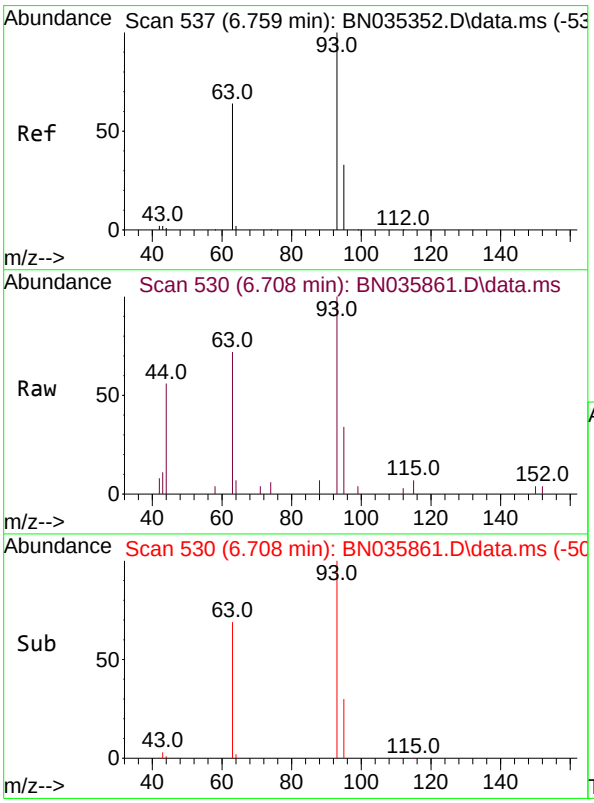
#5
Phenol-d6
Concen: 0.340 ng
RT: 6.470 min Scan# 4
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

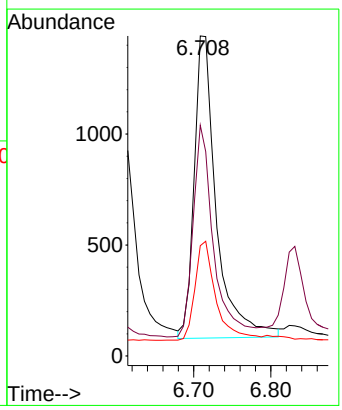


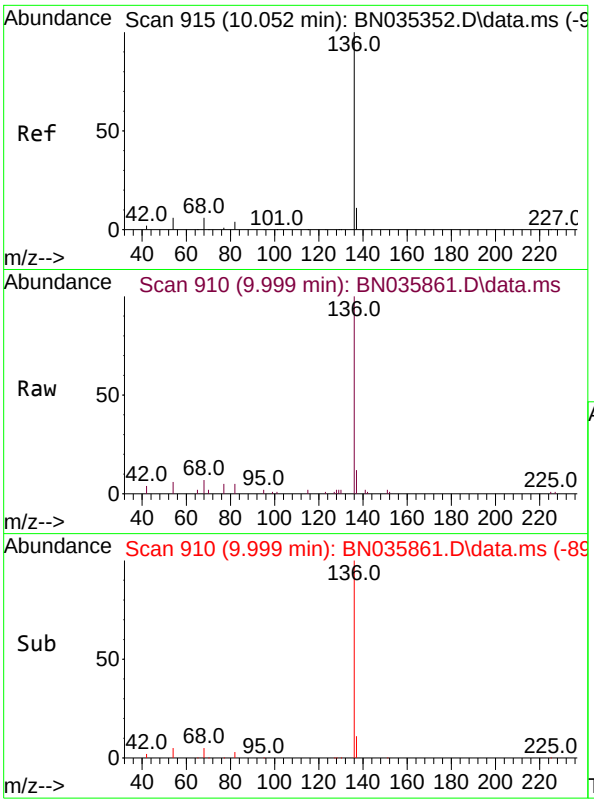


#6
bis(2-Chloroethyl)ether
Concen: 0.349 ng
RT: 6.708 min Scan# 530
Delta R.T. -0.022 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



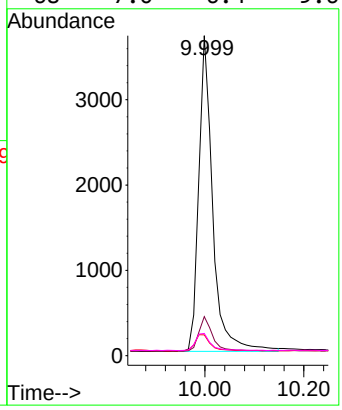


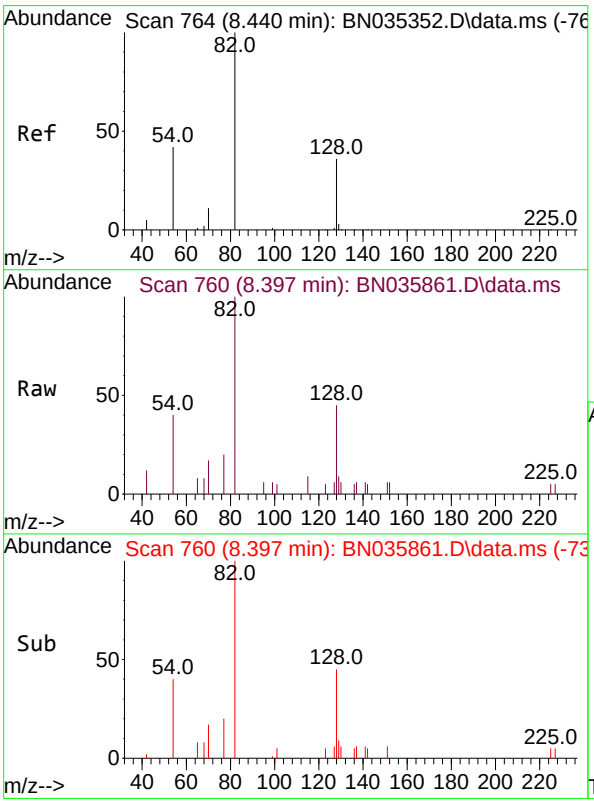
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 9.999 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

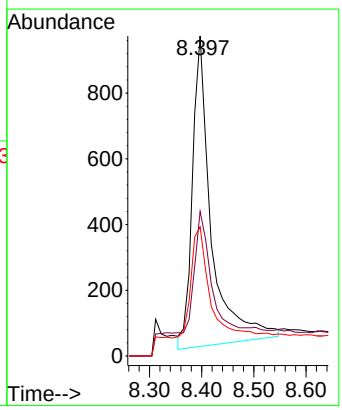


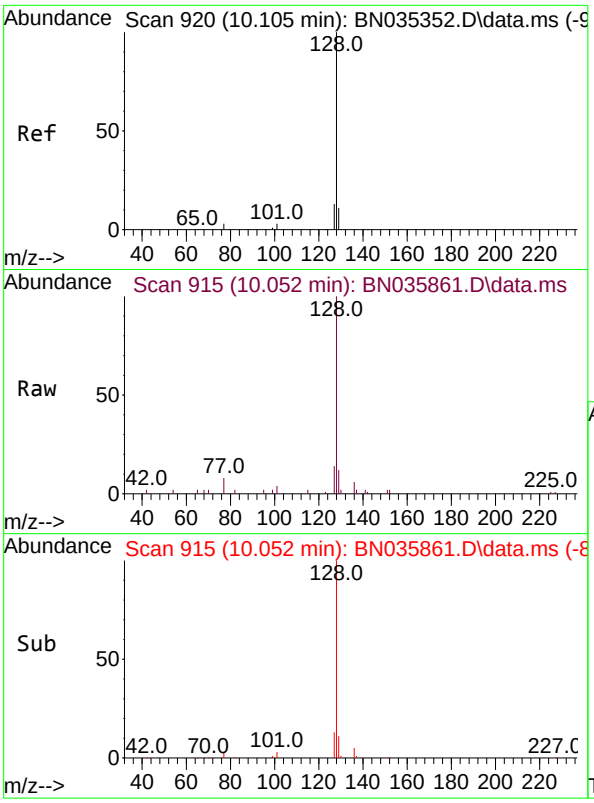


#8
Nitrobenzene-d5
Concen: 0.542 ng
RT: 8.397 min Scan# 760
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



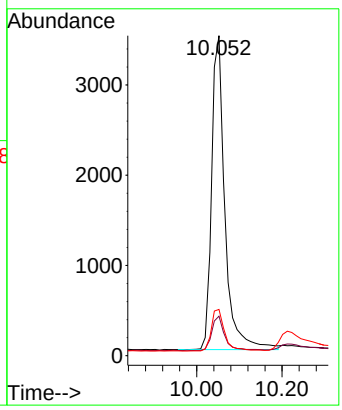


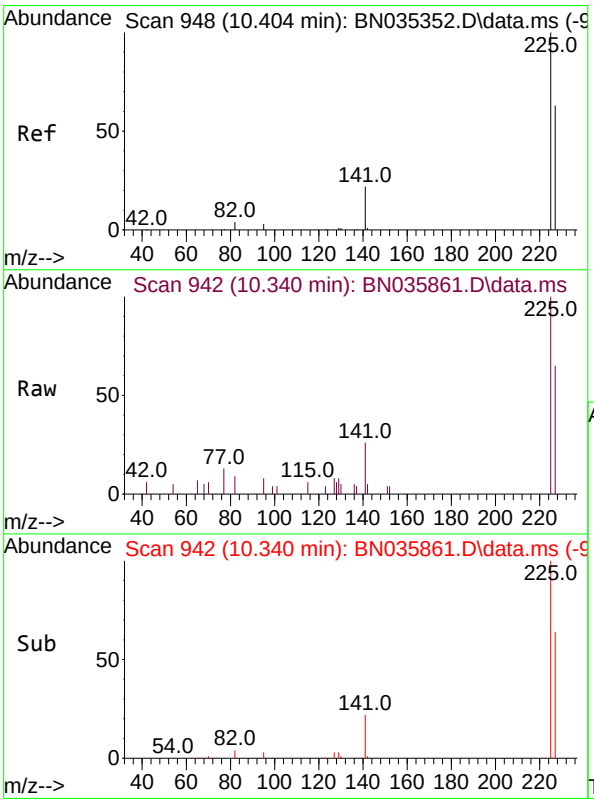
#9
Naphthalene
Concen: 0.394 ng
RT: 10.052 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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

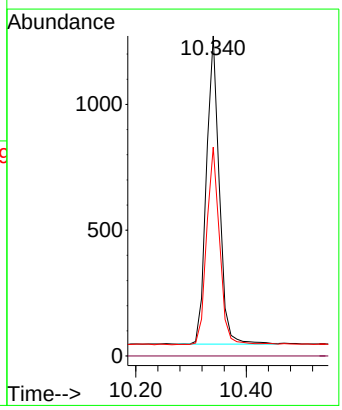


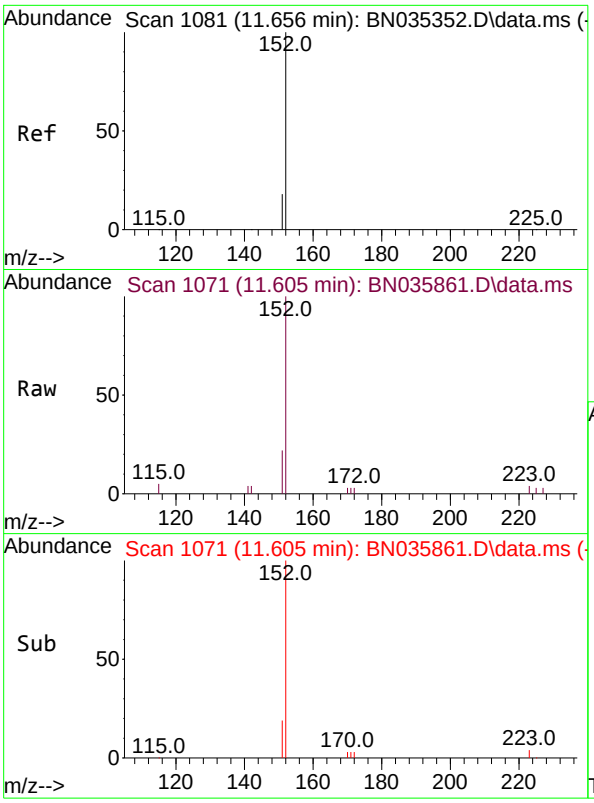


#10
Hexachlorobutadiene
Concen: 0.452 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



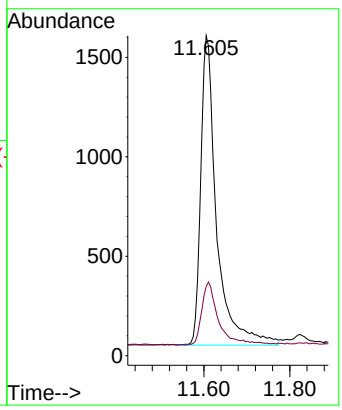


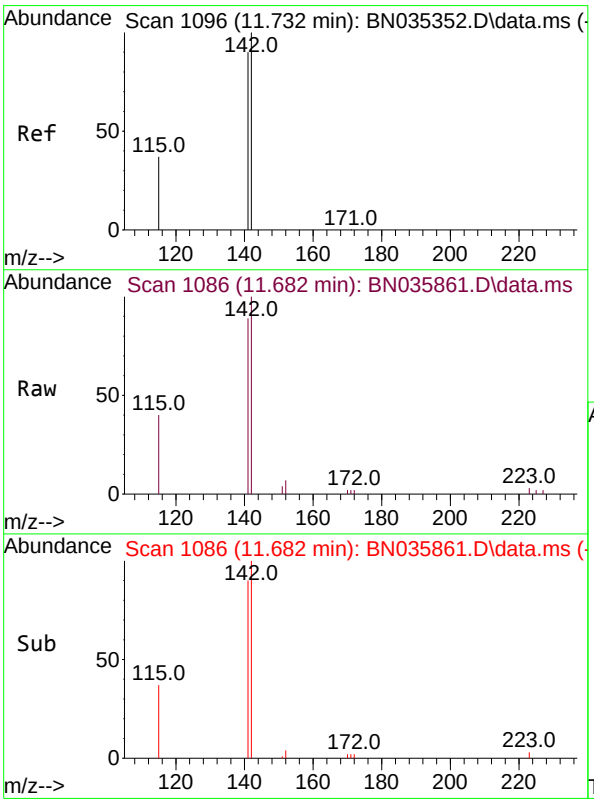
#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.605 min Scan# 1(
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 3987

Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	25.0

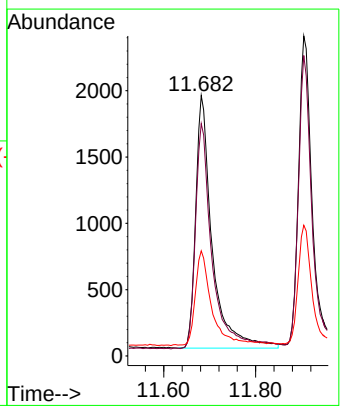


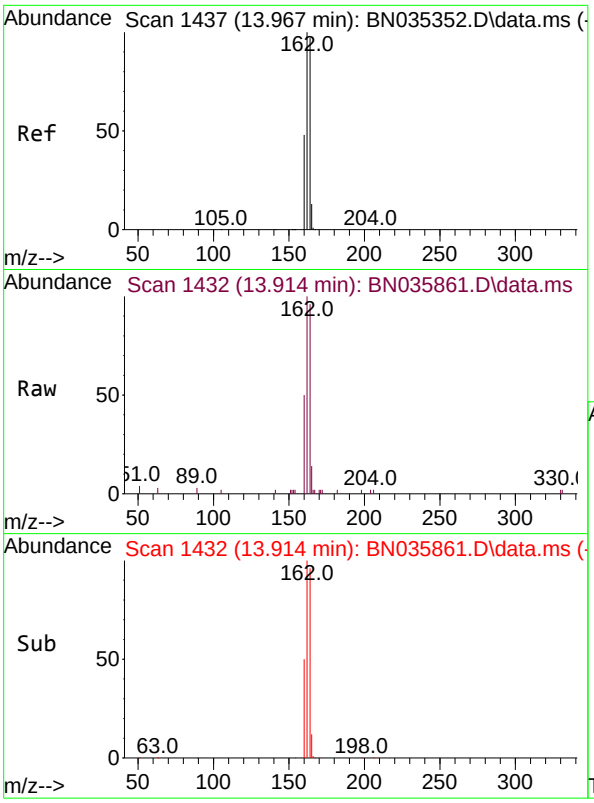


#12
2-Methylnaphthalene
Concen: 0.347 ng
RT: 11.682 min Scan# 1086
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



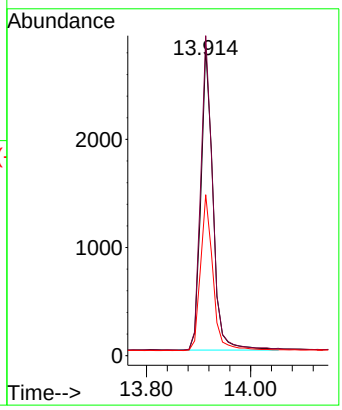


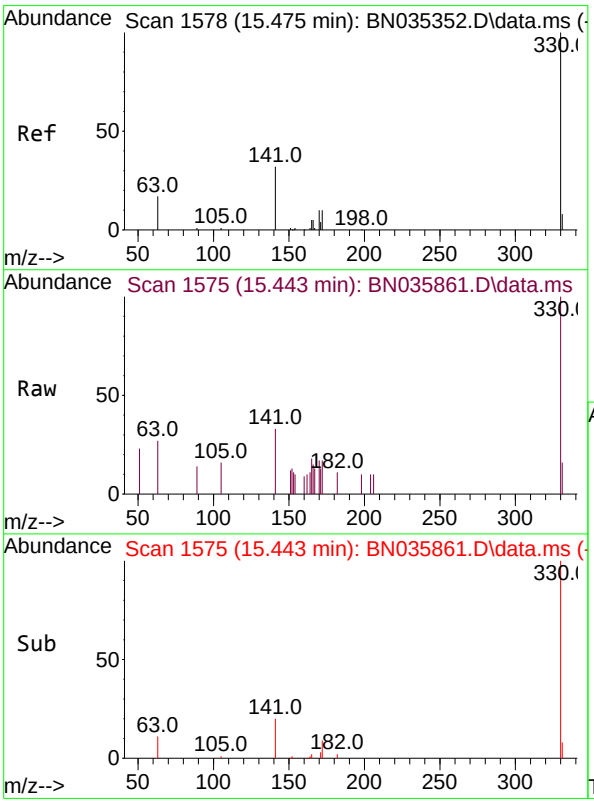
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.914 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

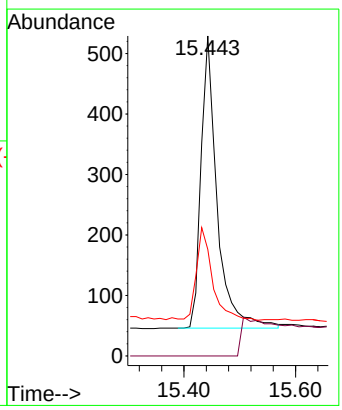


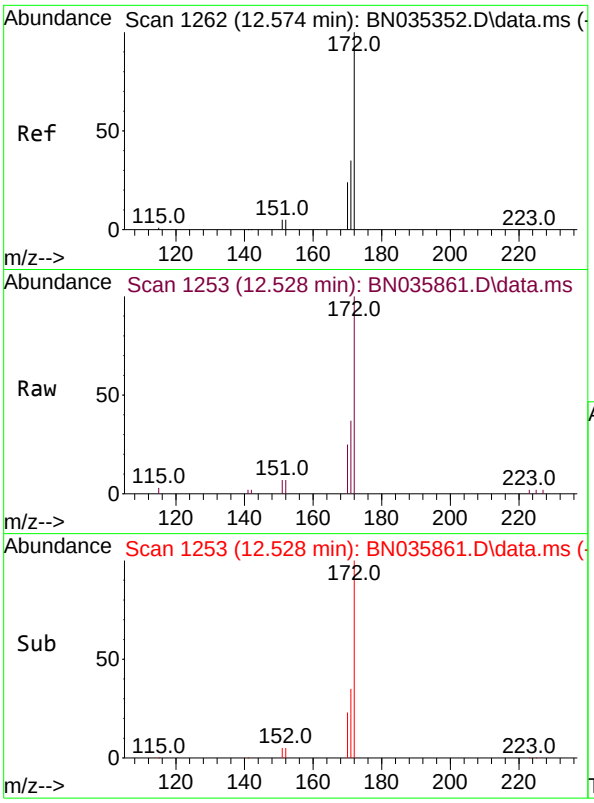


#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.443 min Scan# 1575
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



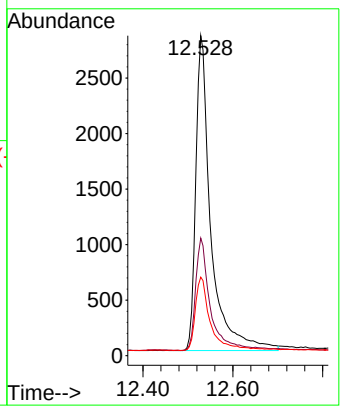


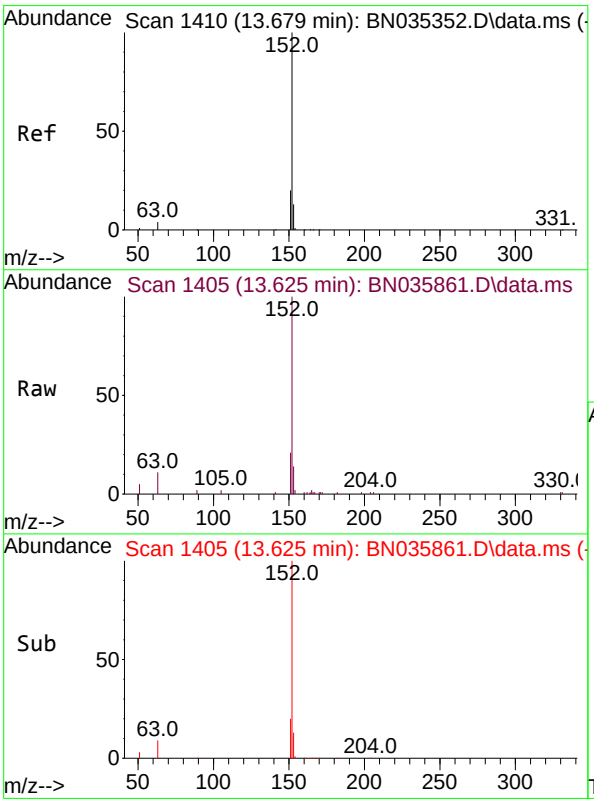
#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

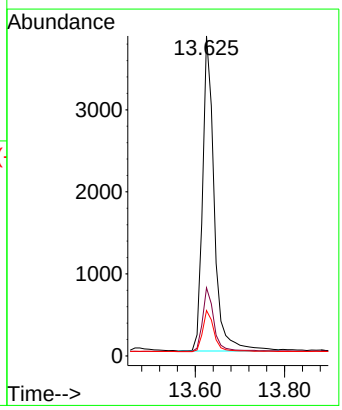


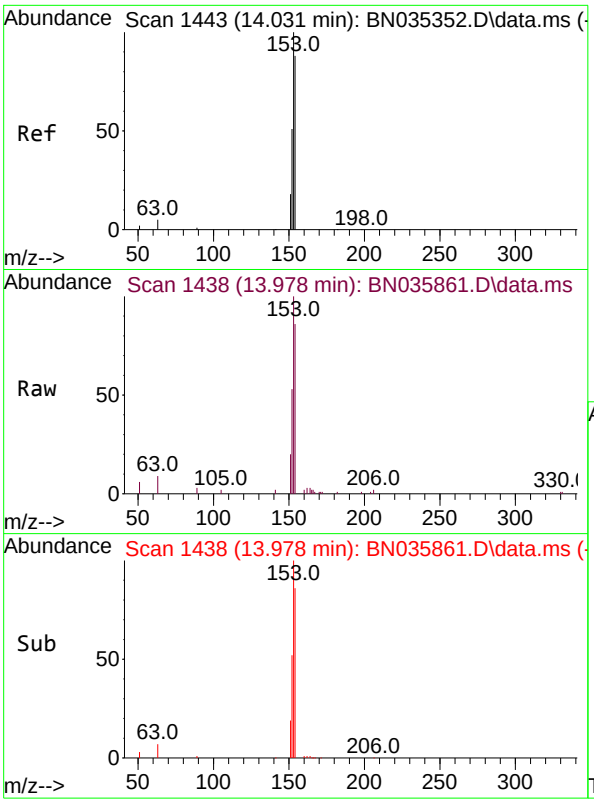


#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.625 min Scan# 1405
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



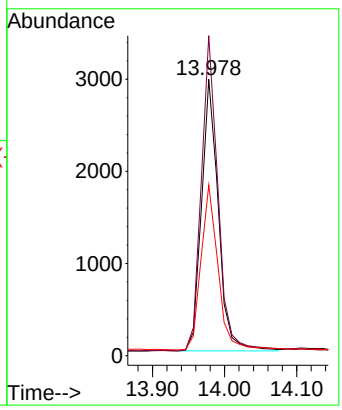


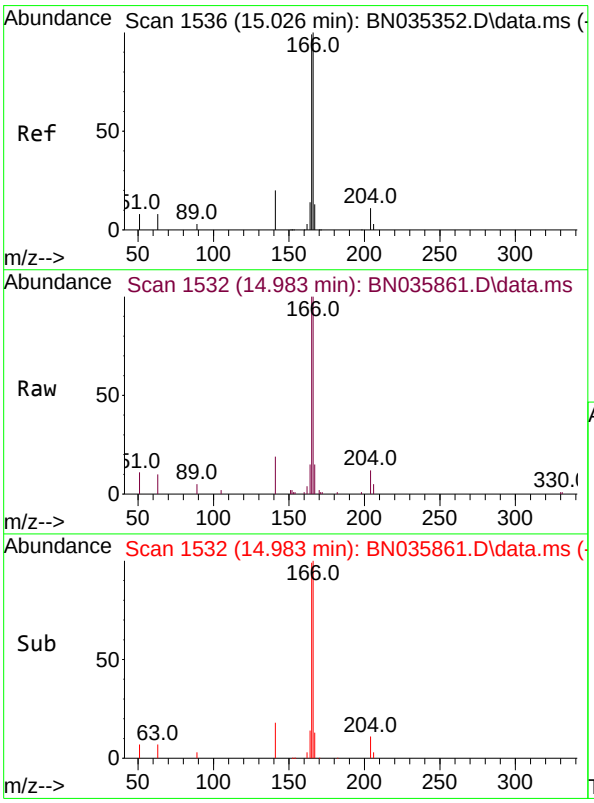
#17
Acenaphthene
Concen: 0.383 ng
RT: 13.978 min Scan# 14
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

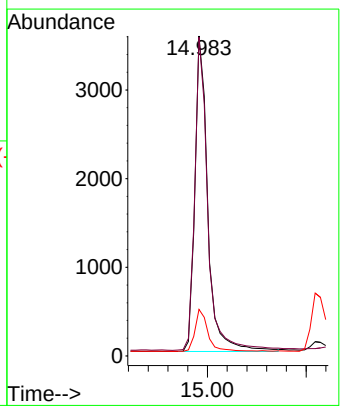


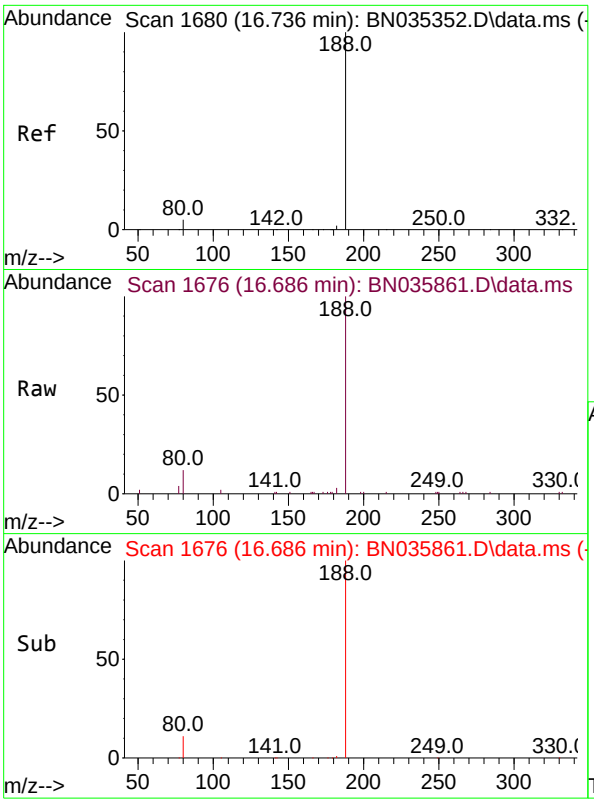


#18
Fluorene
Concen: 0.363 ng
RT: 14.983 min Scan# 1532
Delta R.T. -0.021 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



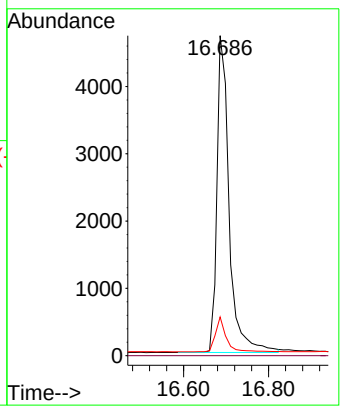


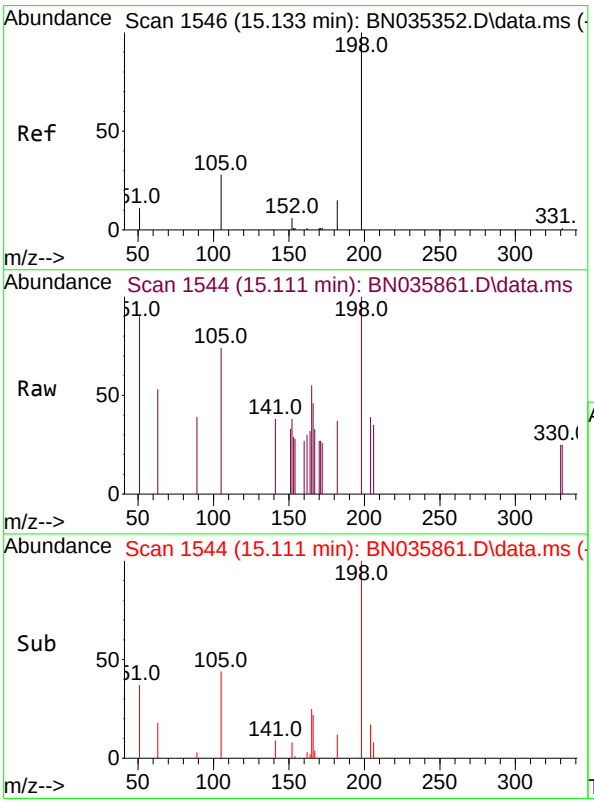
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.686 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

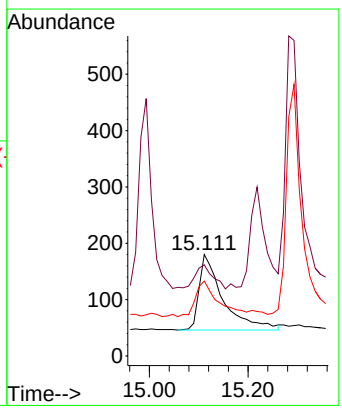


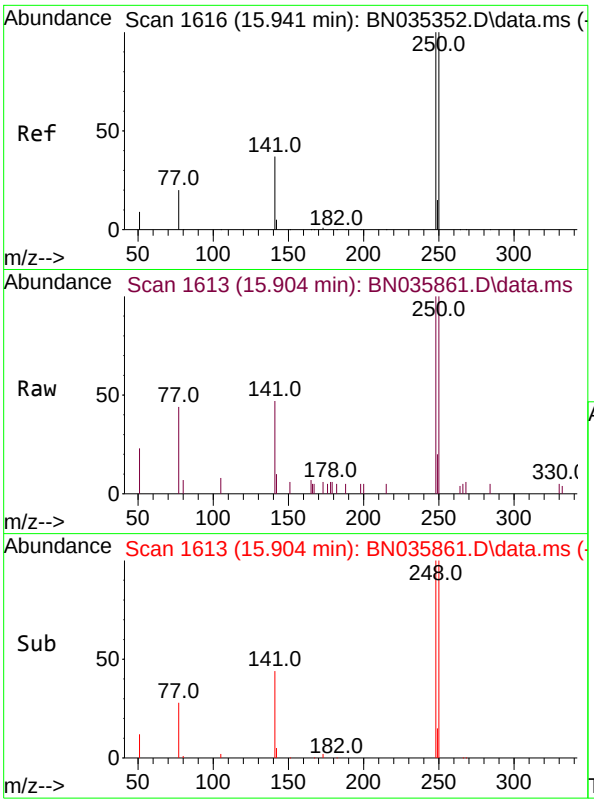


#20
4,6-Dinitro-2-methylphenol
Concen: 0.492 ng
RT: 15.111 min Scan# 1544
Delta R.T. -0.011 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#



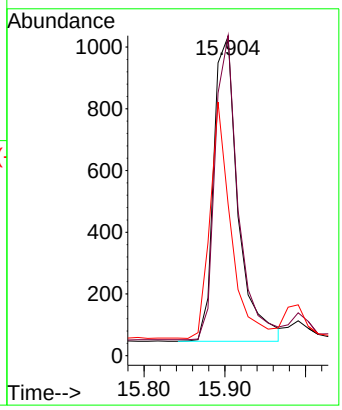


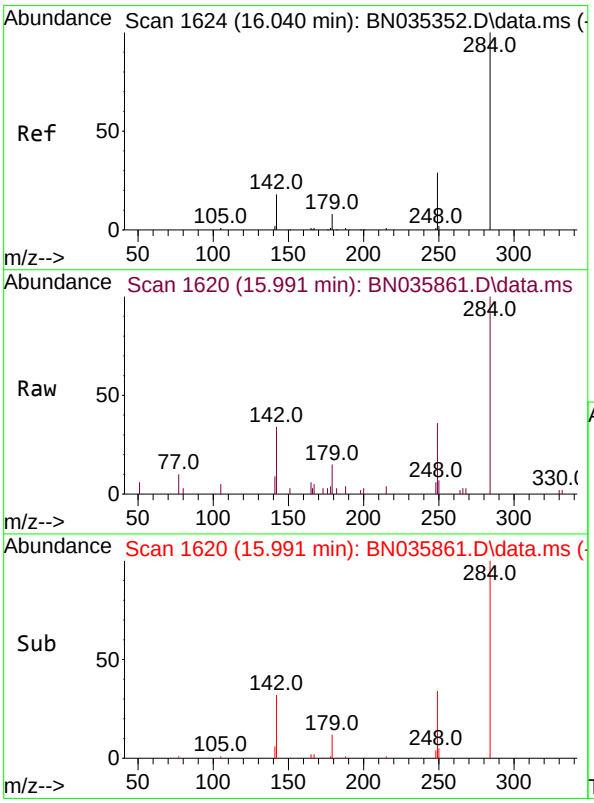
#21
4-Bromophenyl-phenylether
Concen: 0.378 ng
RT: 15.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

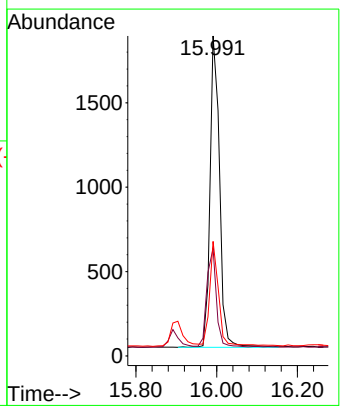


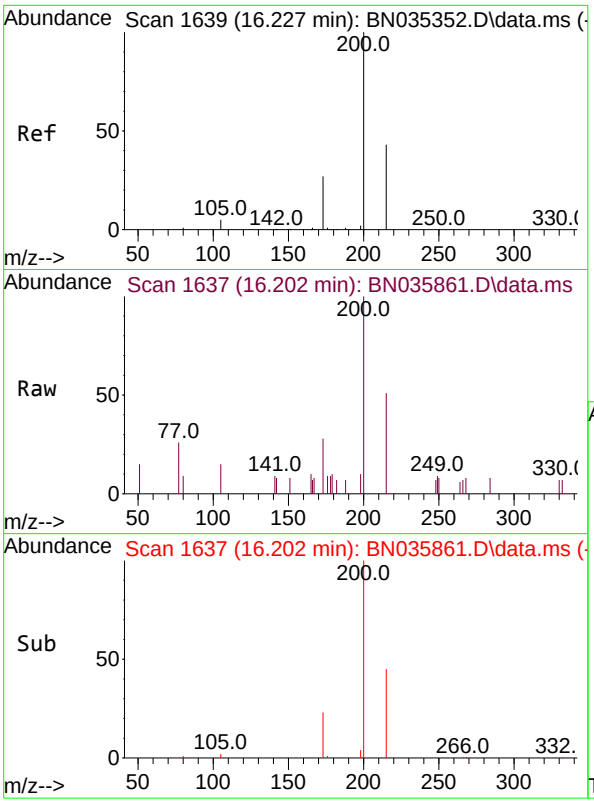


#22
Hexachlorobenzene
Concen: 0.468 ng
RT: 15.991 min Scan# 1620
Delta R.T. -0.025 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



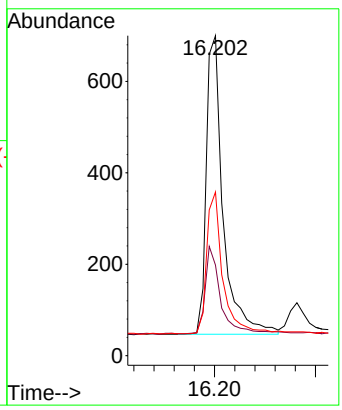


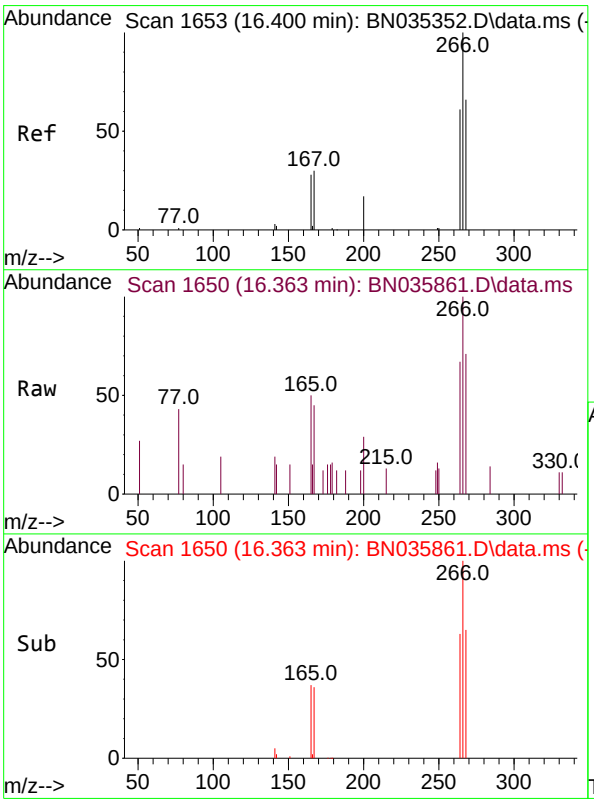
#23
Atrazine
Concen: 0.386 ng
RT: 16.202 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

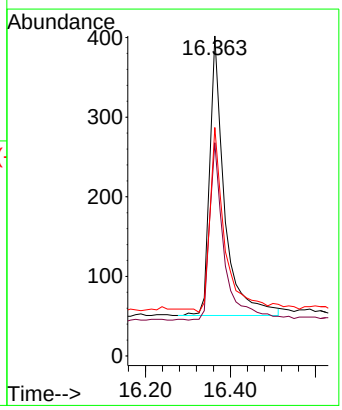


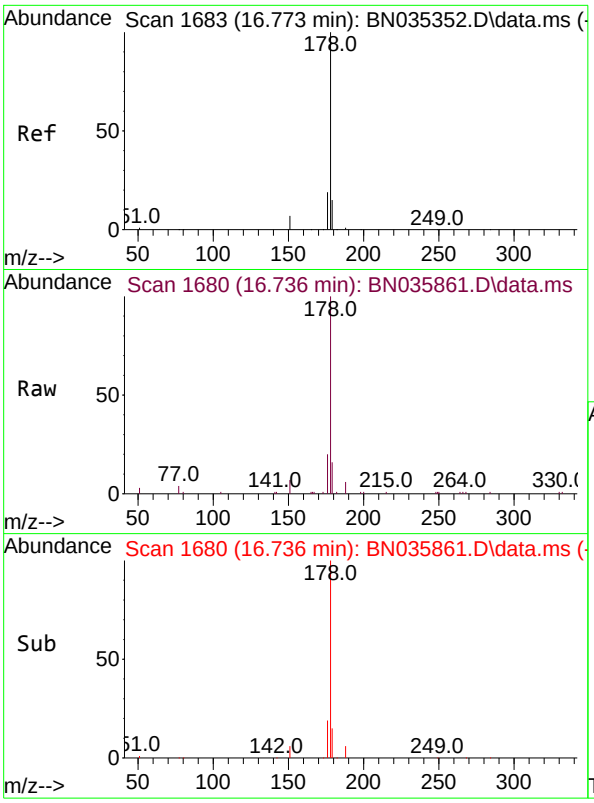


#24
Pentachlorophenol
Concen: 0.302 ng
RT: 16.363 min Scan# 1650
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#



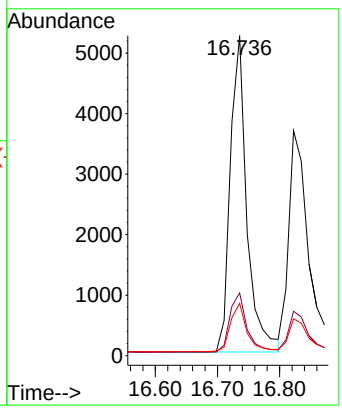


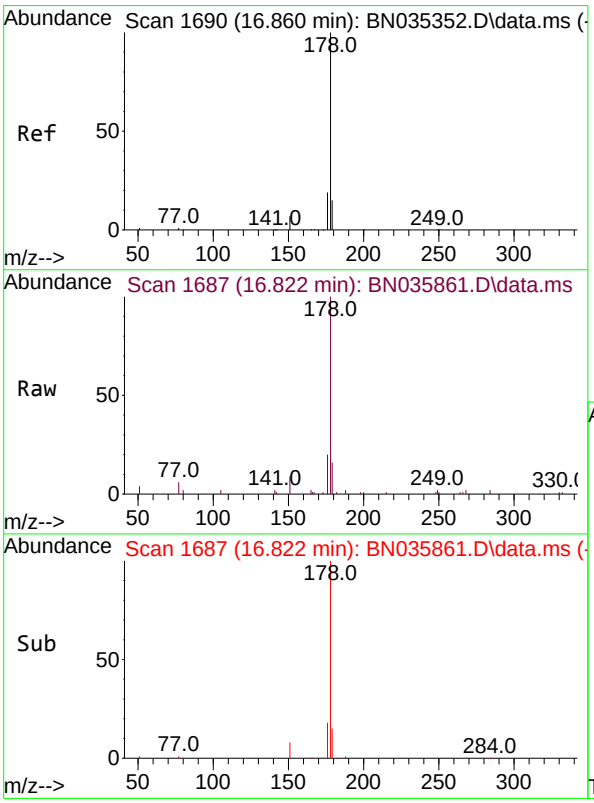
#25
Phenanthrene
Concen: 0.377 ng
RT: 16.736 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

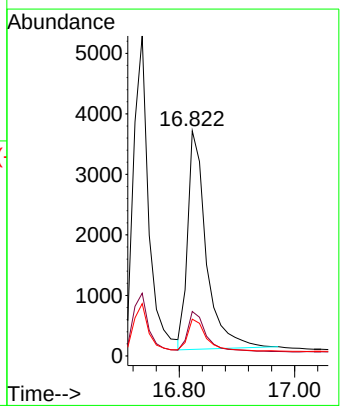


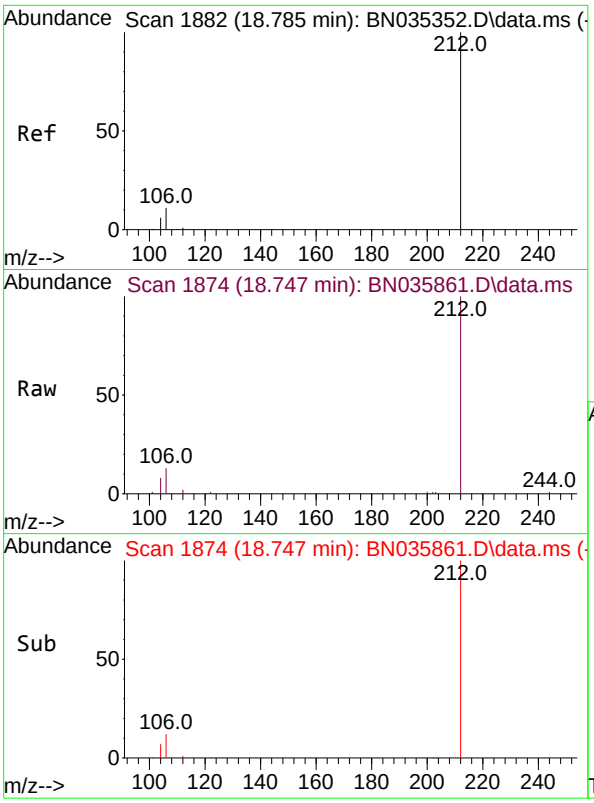


#26
Anthracene
Concen: 0.348 ng
RT: 16.822 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



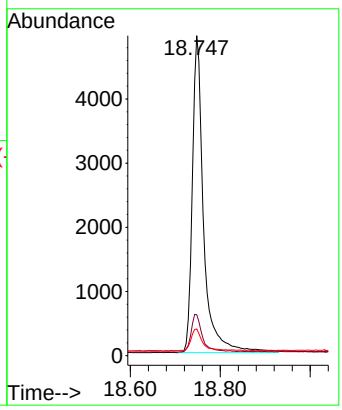


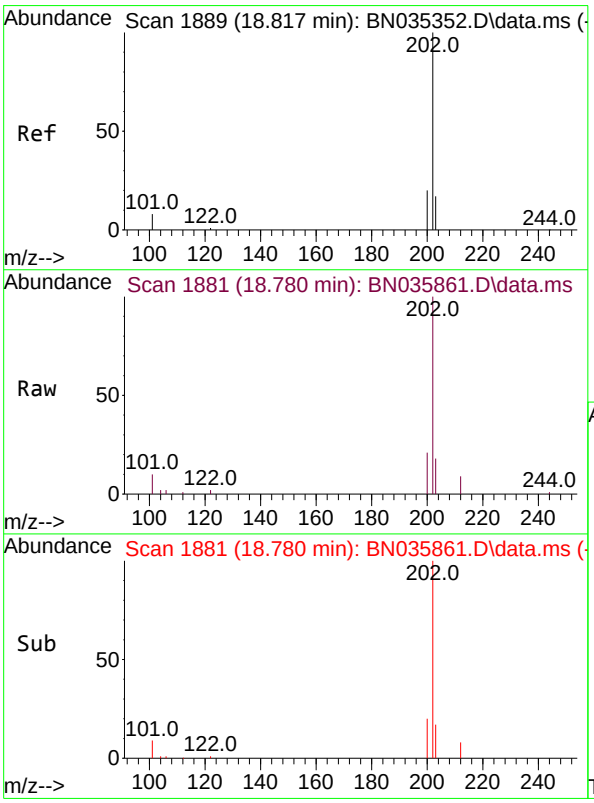
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.747 min Scan# 1
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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

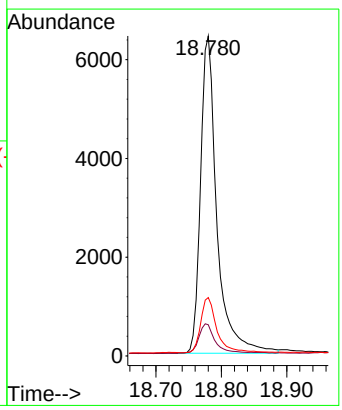


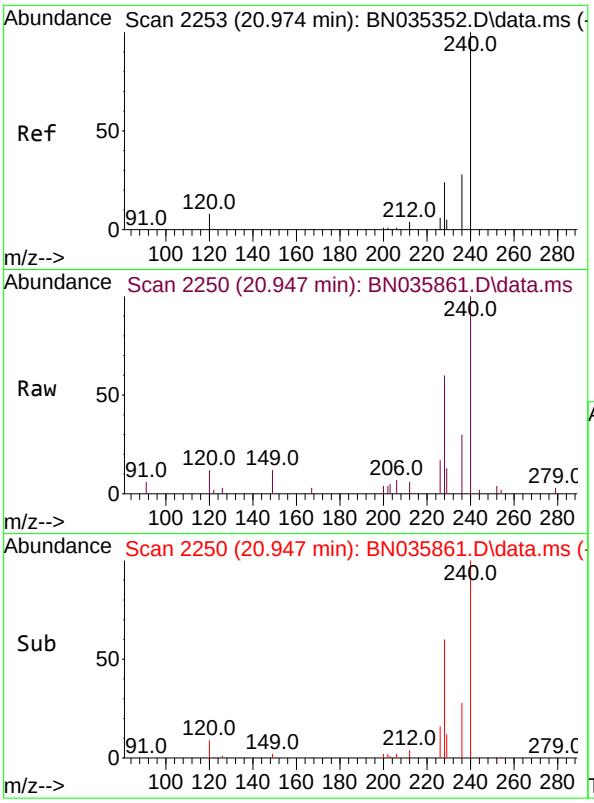


#28
Fluoranthene
Concen: 0.321 ng
RT: 18.780 min Scan# 1881
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



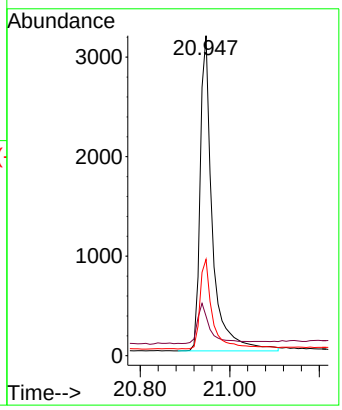


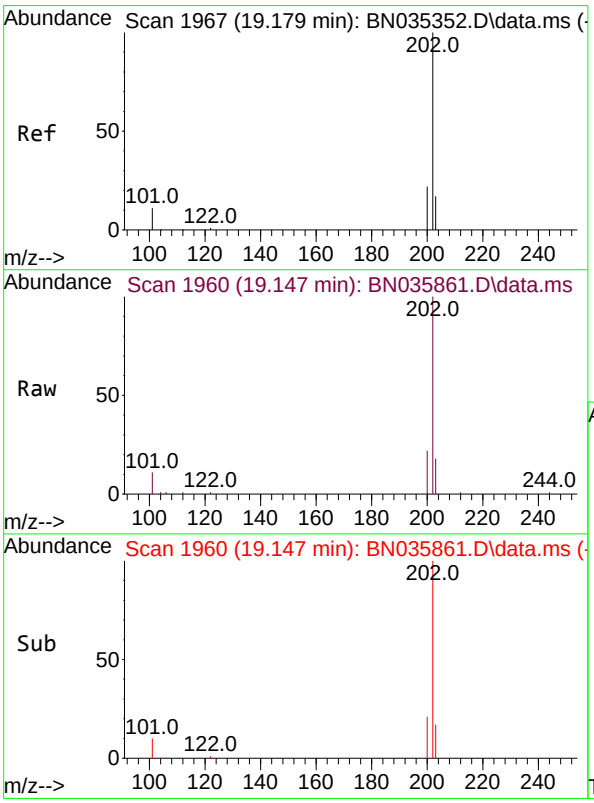
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.947 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

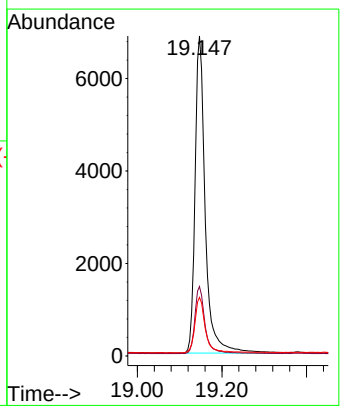


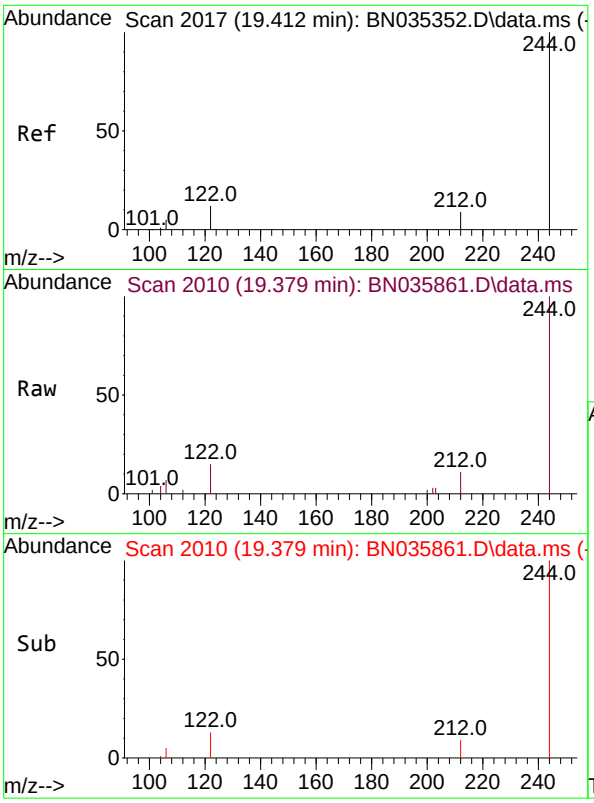


#30
Pyrene
Concen: 0.517 ng
RT: 19.147 min Scan# 1960
Delta R.T. -0.014 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



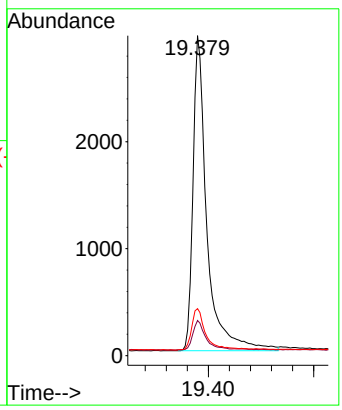


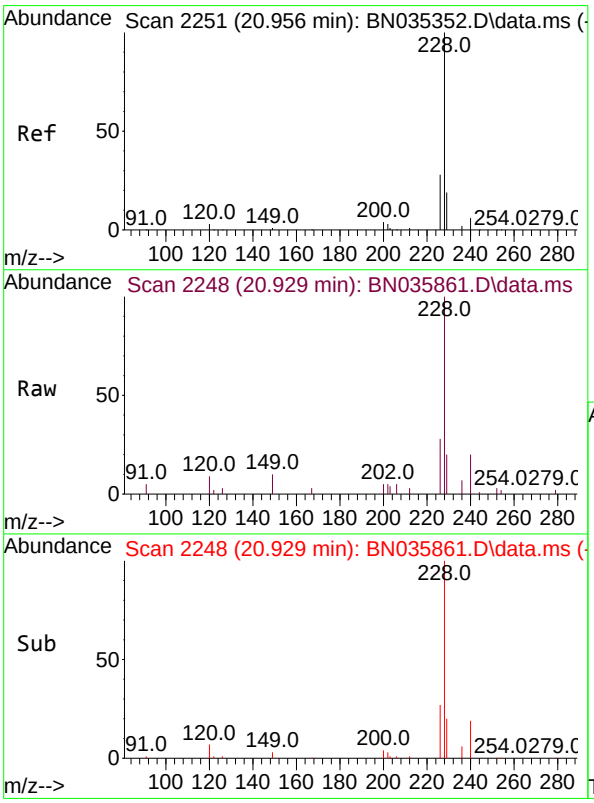
#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.379 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

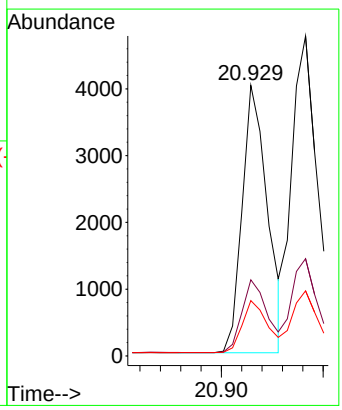


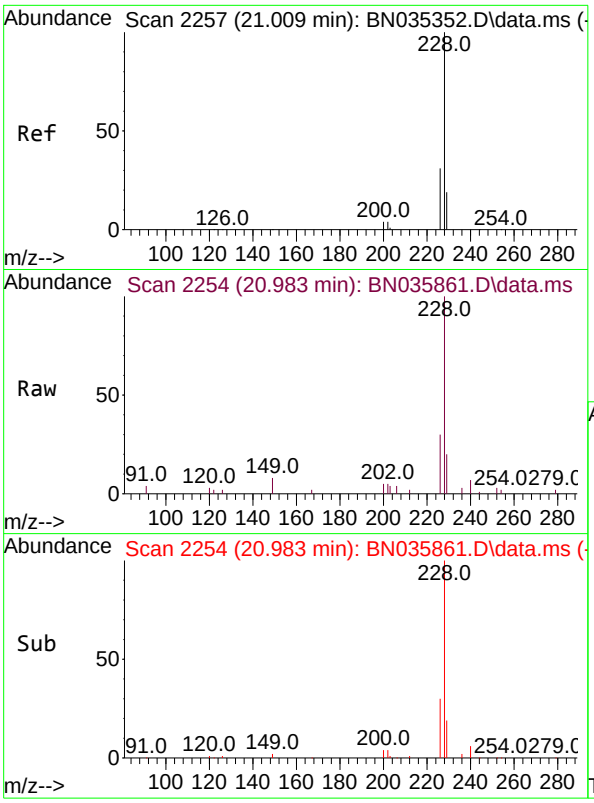


#32
Benzo(a)anthracene
Concen: 0.328 ng
RT: 20.929 min Scan# 2248
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



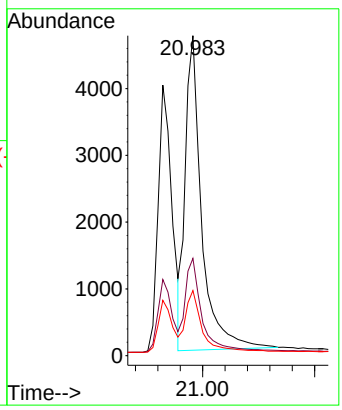


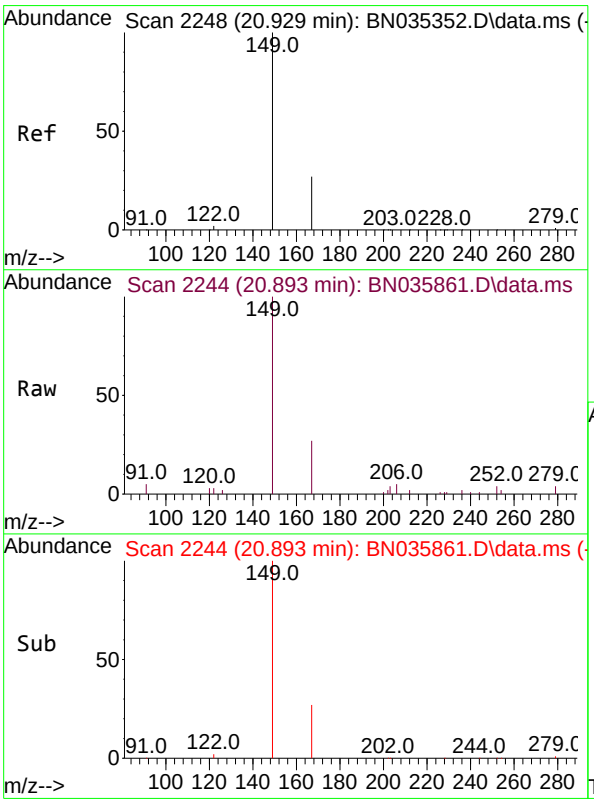
#33
Chrysene
Concen: 0.441 ng
RT: 20.983 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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

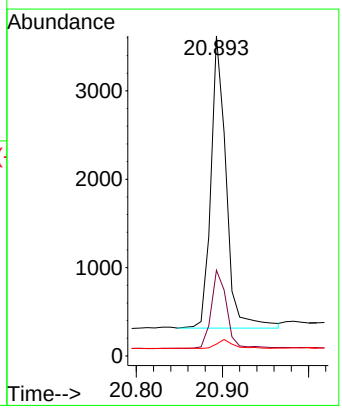


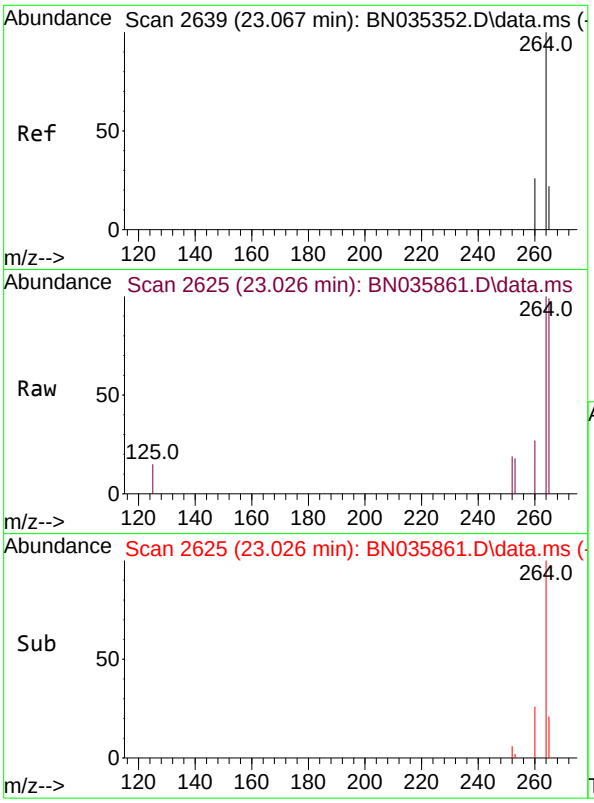


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.489 ng
RT: 20.893 min Scan# 2244
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



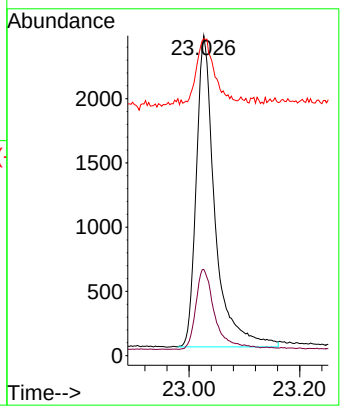


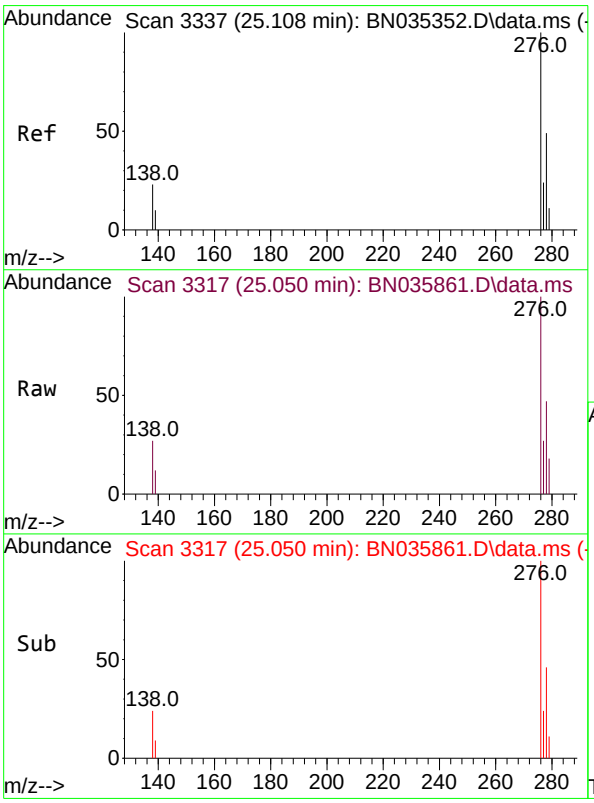
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.026 min Scan# 2
Delta R.T. -0.015 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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#

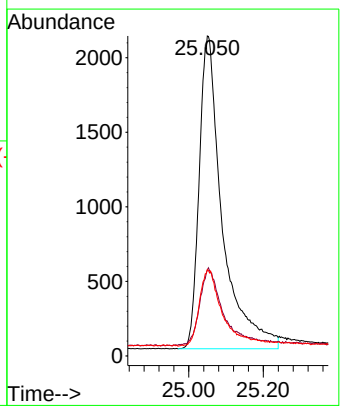


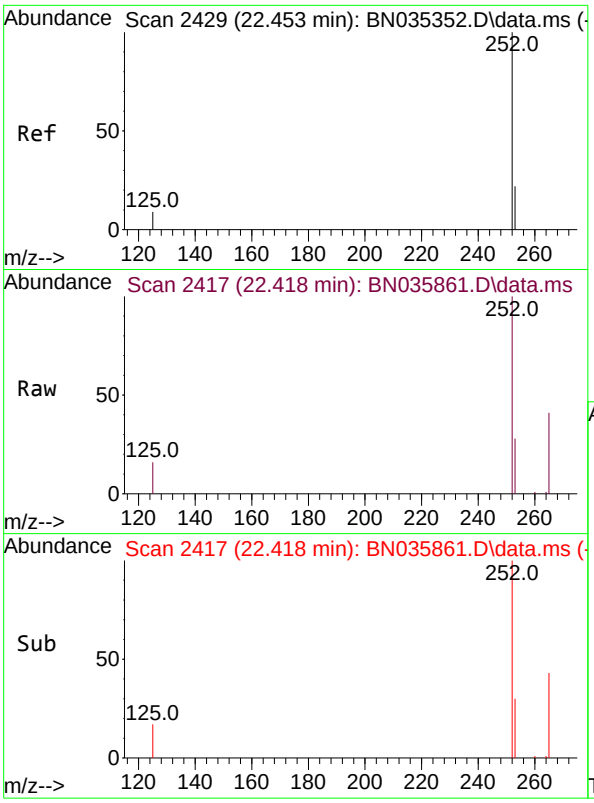


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.050 min Scan# 3317
Delta R.T. -0.018 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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



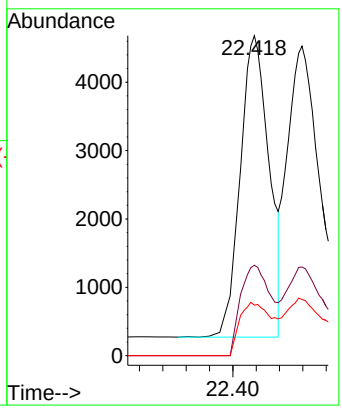


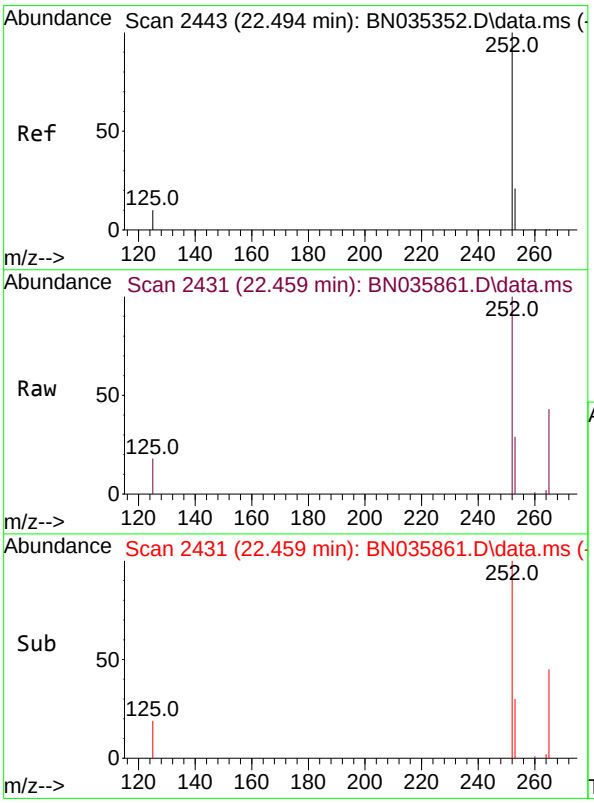
#37
Benzo(b)fluoranthene
Concen: 0.566 ng
RT: 22.418 min Scan# 24
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#

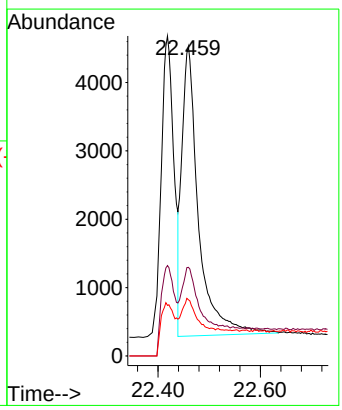


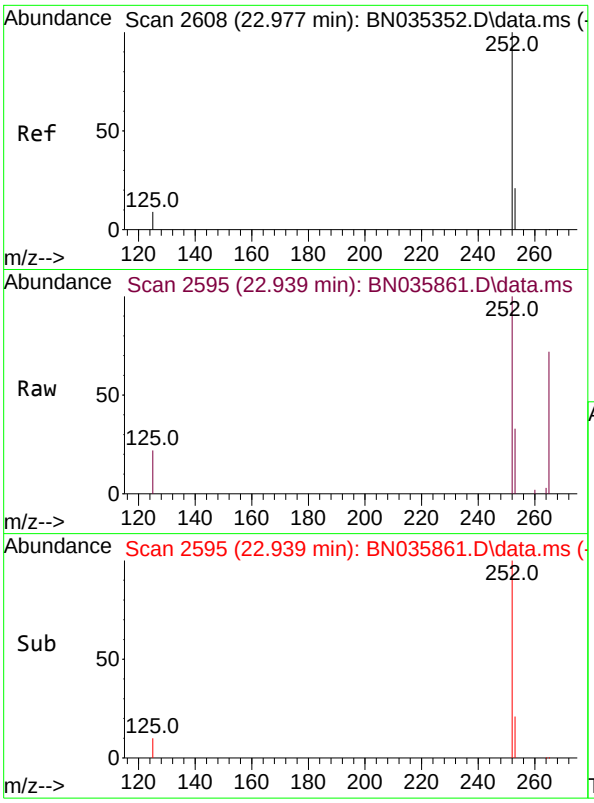


#38
Benzo(k)fluoranthene
Concen: 0.470 ng
RT: 22.459 min Scan# 2431
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

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#



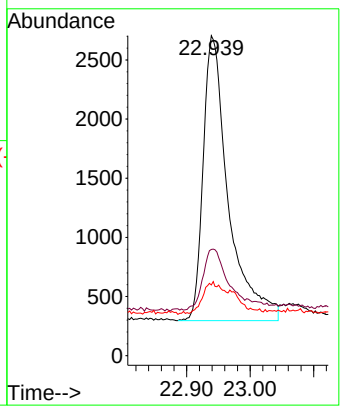


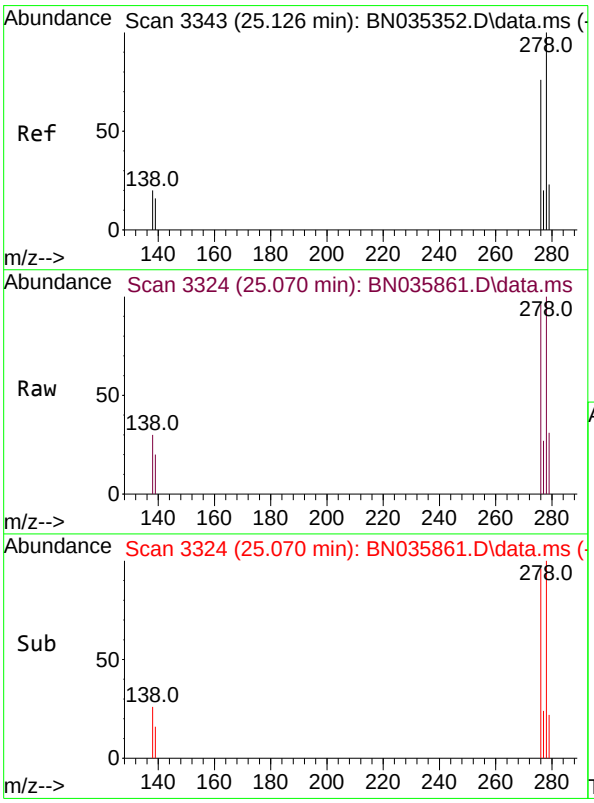
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 22.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:252 Resp: 6641

Ion	Ratio	Lower	Upper
252	100		
253	33.2	20.2	30.4#
125	22.1	10.9	16.3#

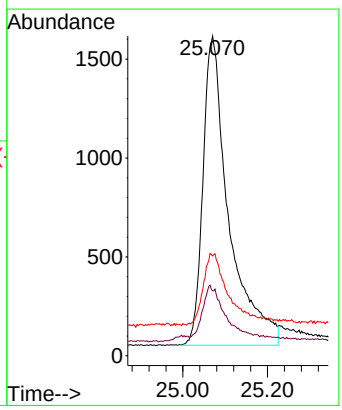


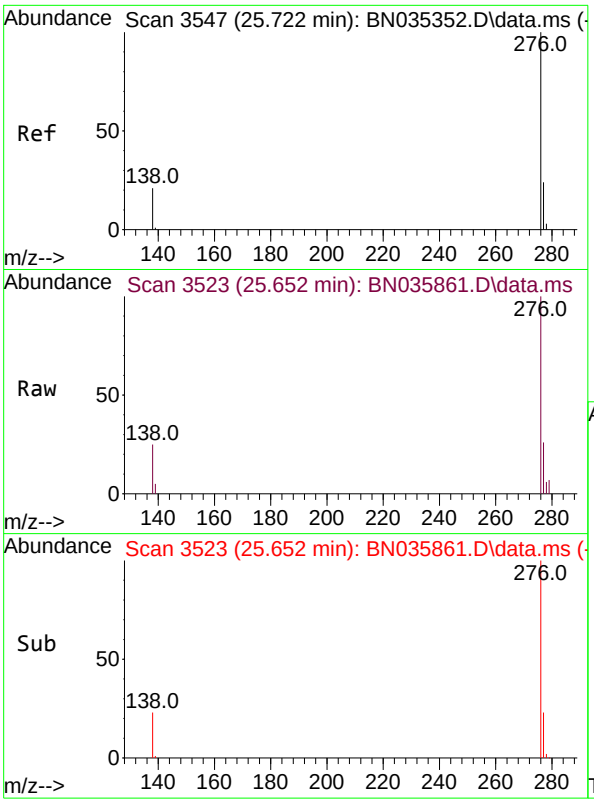


#40
Dibenzo(a,h)anthracene
Concen: 0.377 ng
RT: 25.070 min Scan# 3324
Delta R.T. -0.012 min
Lab File: BN035861.D
Acq: 26 Dec 2024 19:41

Tgt Ion:278 Resp: 6633

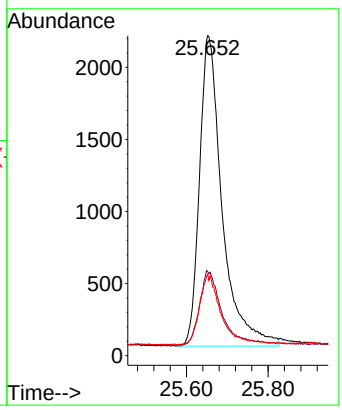
Ion	Ratio	Lower	Upper
278	100		
139	20.3	14.2	21.4
279	31.2	20.5	30.7#





#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