



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

Cover Page

Order ID : P5065

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P5065-04
P5065-05
P5065-06

Client Sample Number

RW7-SP200-20241202
RW7-SP201-20241202
RW7-SP300A-20241202

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: 12/5/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # P5065

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 12/03/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested:
SVOC-SIMGroup1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatile Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241202 [Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7-SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 127%]. The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.



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The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5065

MATRIX: /Water

METHOD: 8270-Modified/3510

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			
6. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries met the acceptable criteria except for RW7-SP200-20241202 [Terphenyl-d14 - 135%], RW7-SP201-20241202 [Terphenyl-d14 - 145%], RW7-SP300A-20241202 [Terphenyl-d14 - 151%], PB165348BS [2-Fluorobiphenyl - 108%, Nitrobenzene-d5 - 112%] and PB165348BSD [2-Fluorobiphenyl - 115%, Nitrobenzene-d5 - 127%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken.			
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			

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NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

(CONTINUED)

NA NO YES

9. Internal Standard Area/Retention Time Shift Meet Criteria ✓

Comments:

10. Extraction Holding Time Met ✓

If not met, list number of days exceeded for each sample:

11. Analysis Holding Time Met ✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5065

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 ✓

LAB CHRONICLE

OrderID:	P5065	OrderDate:	12/3/2024 10:48:00 AM					
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13					
Contact:	Ernie Wu	Location:	L61					
<hr/>								
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5065-04	RW7-SP200-2024120 2	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	
P5065-05	RW7-SP201-2024120 2	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	
P5065-06	RW7-SP300A-202412 02	Water			12/02/24			12/03/24
			SVOC-SIMGroup1	8270-Modified		12/03/24	12/03/24	



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Hit Summary Sheet
SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : P5065-04	RW7-SP200-20241202 RW7-SP200-20241202	WATER 1,4-Dioxane	3.300	0.07	0.21	0.21		ug/L
		Total Svoc :			3.30			
		Total Concentration:			3.30			
Client ID : P5065-06	RW7-SP300A-20241202 RW7-SP300A-20241202	WATER 1,4-Dioxane	0.570	0.07	0.2	0.2		ug/L
		Total Svoc :			0.57			
		Total Concentration:			0.57			



QC

SUMMARY

Surrogate Summary

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P5065-04	RW7-SP200-20241202	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.54	135	*	58	132
P5065-05	RW7-SP201-20241202	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.58	145	*	58	132
P5065-06	RW7-SP300A-20241202	2-Methylnaphthalene-d10	0.4	0.36	91		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.37	94		53	106
		Terphenyl-d14	0.4	0.60	151	*	58	132
PB165348BL	PB165348BL	2-Methylnaphthalene-d10	0.4	0.44	109		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.42	106		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
PB165348BS	PB165348BS	2-Methylnaphthalene-d10	0.4	0.52	130		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.45	112	*	55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.46	116		58	132
PB165348BSD	PB165348BSD	2-Methylnaphthalene-d10	0.4	0.57	142		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.51	127	*	55	111
		2-Fluorobiphenyl	0.4	0.46	115	*	53	106
		Terphenyl-d14	0.4	0.50	124		58	132



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035408.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Qual	Limits		
									Low	High	
PB165348BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	



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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5065

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN035409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Qual	Limits		
									RPD	Low	High
PB165348BSD	1,4-Dioxane	0.4	0.41	ug/L	103	10			70	130	20



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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165348BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P5065

SAS No.: P5065 SDG NO.: P5065

Lab File ID: BN035407.D

Lab Sample ID: PB165348BL

Instrument ID: BNA_N

Date Extracted: 12/03/2024

Matrix: (soil/water) Water

Date Analyzed: 12/03/2024

Level: (low/med) LOW

Time Analyzed: 17:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165348BS	PB165348BS	BN035408.D	12/03/2024
PB165348BSD	PB165348BSD	BN035409.D	12/03/2024
RW7-SP300A-20241202	P5065-06	BN035412.D	12/03/2024
RW7-SP200-20241202	P5065-04	BN035410.D	12/03/2024
RW7-SP201-20241202	P5065-05	BN035411.D	12/03/2024

COMMENTS:



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: P5065 SDG NO.: P5065

Lab File ID: BN035349.D

DFTPP Injection Date: 11/27/2024

Instrument ID: BNA_N

DFTPP Injection Time: 14:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	28.9
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	39.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: P5065 SDG NO.: P5065

Lab File ID: BN035405.D

DFTPP Injection Date: 12/03/2024

Instrument ID: BNA_N

DFTPP Injection Time: 15:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	30.2
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	40.9
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	6.9
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (19) 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	BN035406.D	12/03/2024	16:35
PB165348BL	PB165348BL	BN035407.D	12/03/2024	17:37
PB165348BS	PB165348BS	BN035408.D	12/03/2024	18:13
PB165348BSD	PB165348BSD	BN035409.D	12/03/2024	18:48
RW7-SP200-20241202	P5065-04	BN035410.D	12/03/2024	19:24
RW7-SP201-20241202	P5065-05	BN035411.D	12/03/2024	20:00
RW7-SP300A-20241202	P5065-06	BN035412.D	12/03/2024	20:36
SSTDCCC0.4EC	SSTDCCC0.4	BN035413.D	12/03/2024	21:11



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
Lab Code: CHEM Case No.: P5065 SAS No.: P5065 SDG NO.: P5065
EPA Sample No.: SSTDCCC0.4 Date Analyzed: 12/03/2024
Lab File ID: BN035406.D Time Analyzed: 16:35
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	2015	7.3	5135	10.05	3625	13.96
	4030	7.8	10270	10.552	7250	14.457
	1007.5	6.8	2567.5	9.552	1812.5	13.457
EPA SAMPLE NO.						
01	PB165348BL	1833	7.30	4526	10.05	3257
02	PB165348BS	2152	7.30	5114	10.05	3359
03	RW7-SP200-20241202	2075	7.31	5240	10.05	3772
04	PB165348BSD	1951	7.30	4691	10.05	3099
05	RW7-SP201-20241202	1851	7.31	4555	10.05	3248
06	RW7-SP300A-20241202	1636	7.31	4083	10.05	2951

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 LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name :	CHEMTECH						
Lab Code :	CHEM	Case No. :	P5065	SAS No. :	P5065	SDG NO. :	P5065
EPA Sample No. :	SSTDCCCC0.4		Date Analyzed:	12/03/2024			
Lab File ID:	BN035406.D		Time Analyzed:	16:35			
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	8862	16.723	8251	20.974	7832	23.07
	17724	17.223	16502	21.474	15664	23.57
	4431	16.223	4125.5	20.474	3916	22.57
EPA SAMPLE NO.						
01 PB165348BL	8120	16.74	6937	20.98	6492	23.08
02 PB165348BS	8334	16.72	7507	20.97	6897	23.07
03 RW7-SP200-20241202	9570	16.72	8675	20.97	8373	23.06
04 PB165348BSD	7726	16.72	7120	20.97	6595	23.06
05 RW7-SP201-20241202	8127	16.74	6931	20.97	6312	23.07
06 RW7-SP300A-20241202	7433	16.72	6344	20.97	5799	23.07

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE

DATA



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	12/02/24
Project:	CTO WE13	Date Received:	12/03/24
Client Sample ID:	RW7-SP200-20241202	SDG No.:	P5065
Lab Sample ID:	P5065-04	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	970	Units: mL	Final Vol: 1000 uL
Soil Aliquot Vol:		uL	Test: SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level : LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup : N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035410.D	1	12/03/24 12:30	12/03/24 19:24	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.30		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		135%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2080		7.308			
1146-65-2	Naphthalene-d8	5240		10.052			
15067-26-2	Acenaphthene-d10	3770		13.957			
1517-22-2	Phenanthrene-d10	9570		16.723			
1719-03-5	Chrysene-d12	8680		20.974			
1520-96-3	Perylene-d12	8370		23.064			

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\BN120424\
 Data File : BN035410.D
 Acq On : 03 Dec 2024 19:24
 Operator : RC/JU
 Sample : P5065-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

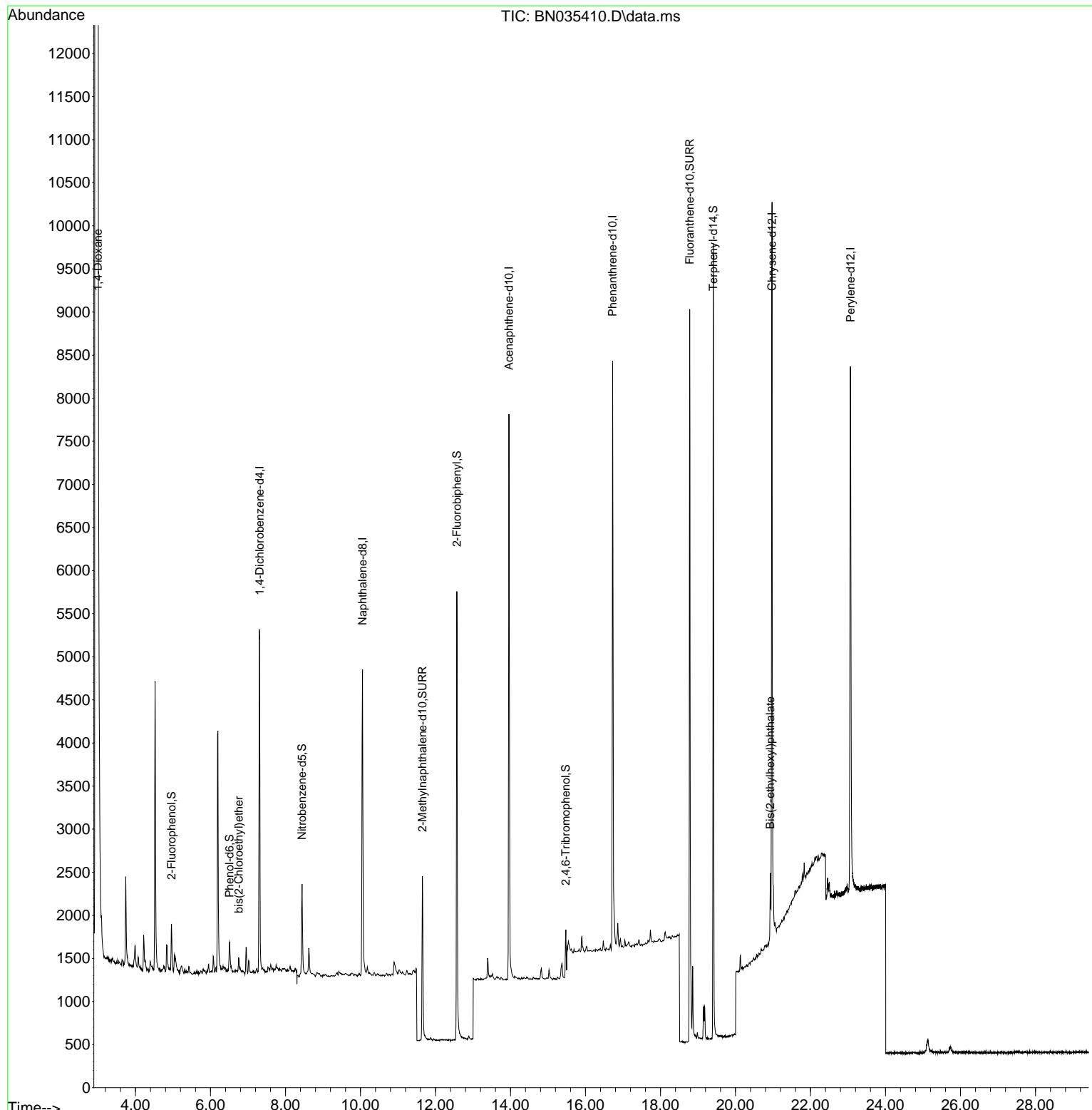
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5240	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3772	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9570	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8675	0.400	ng	0.00
35) Perylene-d12	23.064	264	8373	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	496	0.096	ng	0.00
5) Phenol-d6	6.506	99	374	0.060	ng	0.00
8) Nitrobenzene-d5	8.440	82	1048m	0.327	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2970	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	530	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5211	0.365	ng	0.00
27) Fluoranthene-d10	18.780	212	10124	0.373	ng	0.00
31) Terphenyl-d14	19.407	244	9247	0.540	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.996	88	6354	3.203	ng	98
6) bis(2-Chloroethyl)ether	6.752	93	129	0.025	ng	94
34) Bis(2-ethylhexyl)phtha...	20.929	149	831	0.069	ng	# 93

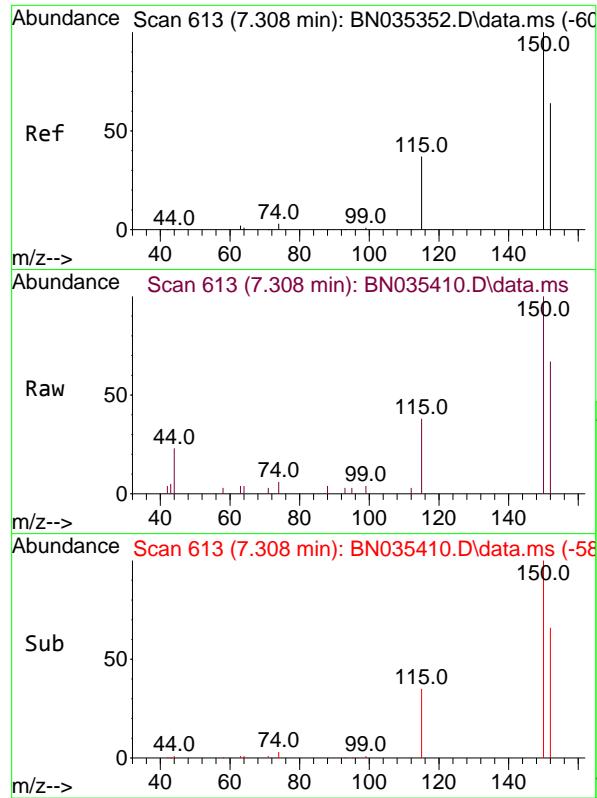
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035410.D
 Acq On : 03 Dec 2024 19:24
 Operator : RC/JU
 Sample : P5065-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

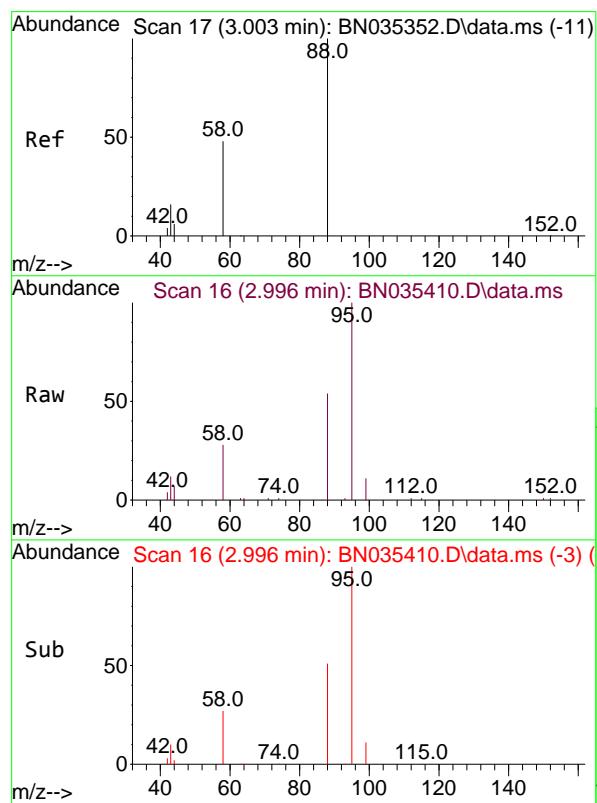
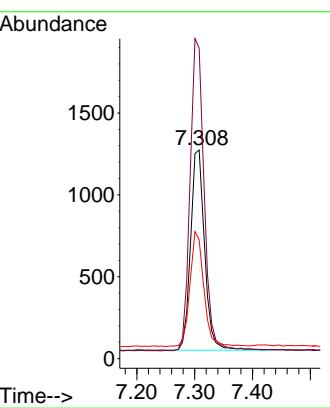




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

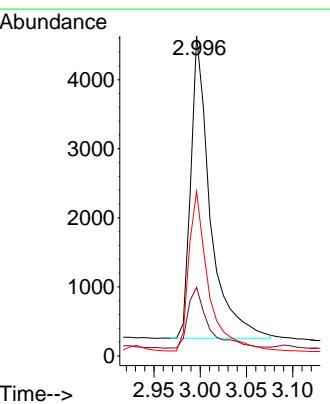
Instrument : BNA_N
 ClientSampleId : RW7-SP200-20241202

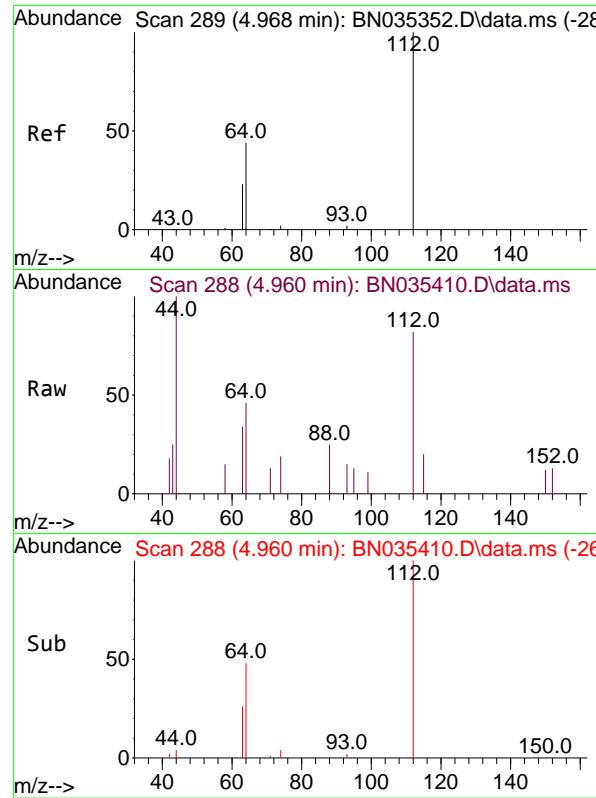
Tgt Ion:152 Resp: 2075
 Ion Ratio Lower Upper
 152 100
 150 148.8 124.0 186.0
 115 56.9 49.6 74.4



#2
 1,4-Dioxane
 Concen: 3.203 ng
 RT: 2.996 min Scan# 16
 Delta R.T. -0.007 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

Tgt Ion: 88 Resp: 6354
 Ion Ratio Lower Upper
 88 100
 43 21.5 17.2 25.8
 58 53.3 44.5 66.7

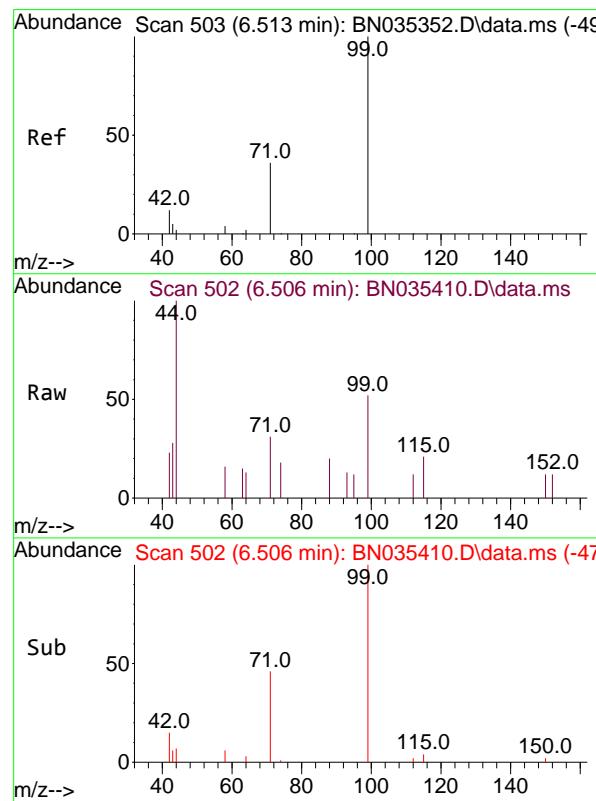
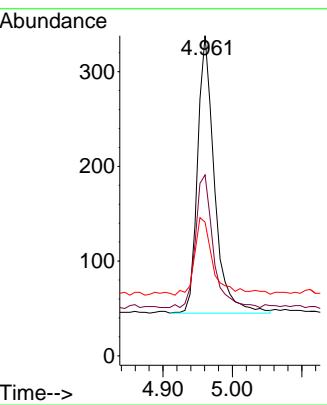




#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.960 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

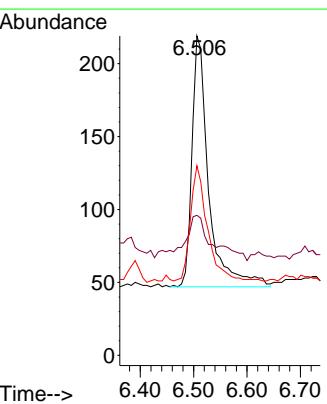
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202

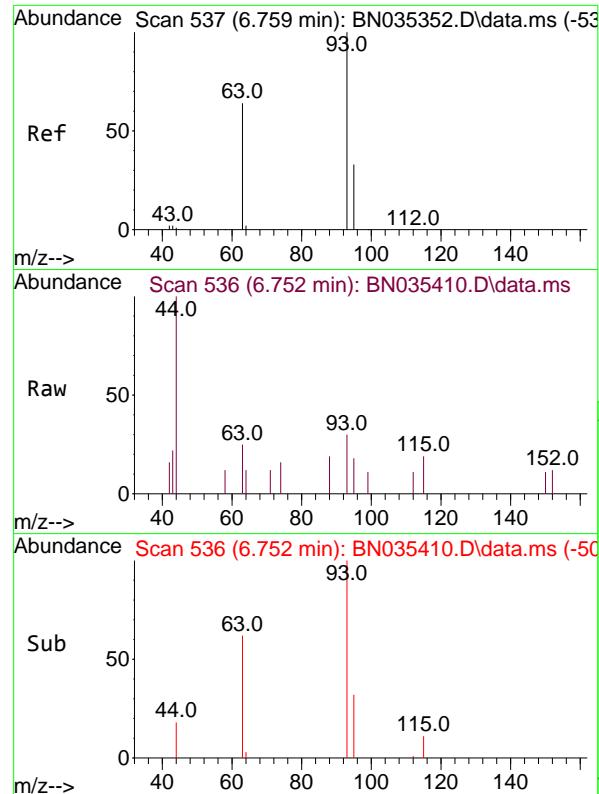
Tgt Ion:112 Resp: 496
Ion Ratio Lower Upper
112 100
64 50.4 39.8 59.8
63 30.0 21.0 31.6



#5
Phenol-d6
Concen: 0.060 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion: 99 Resp: 374
Ion Ratio Lower Upper
99 100
42 27.8 11.4 17.2#
71 46.8 29.3 43.9#

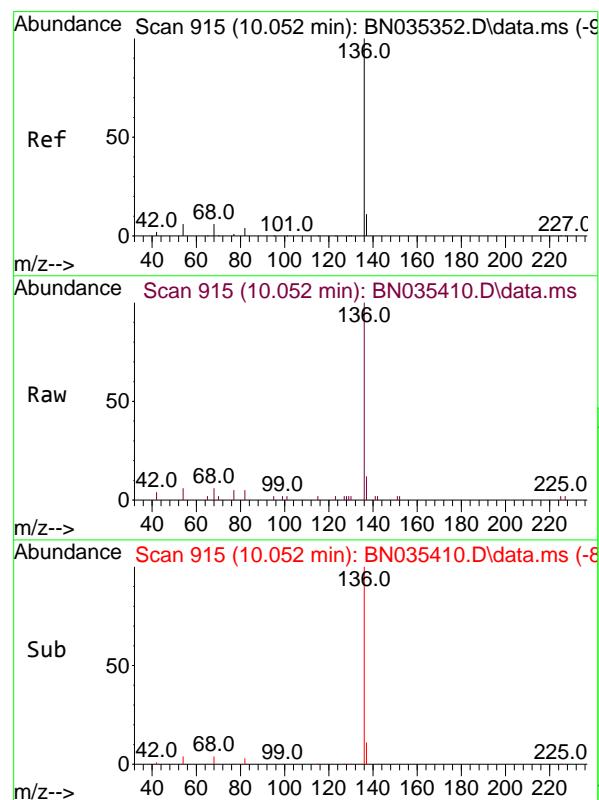
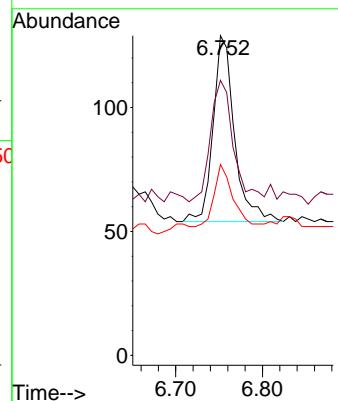




#6
 bis(2-Chloroethyl)ether
 Concen: 0.025 ng
 RT: 6.752 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

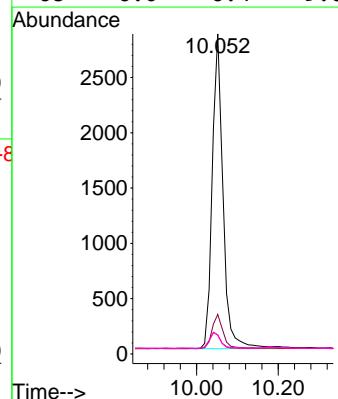
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP200-20241202

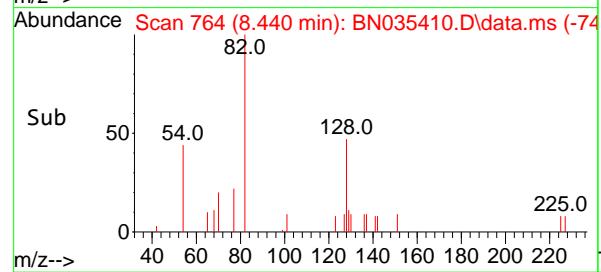
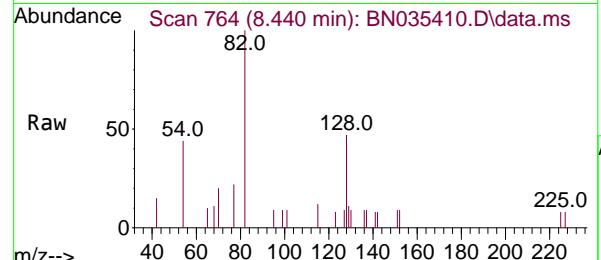
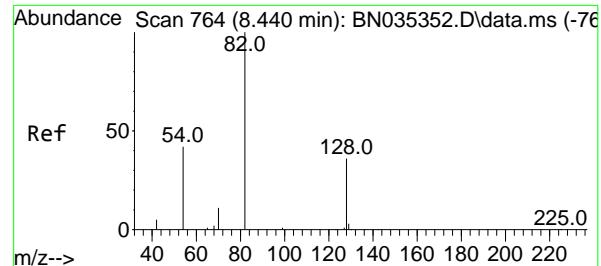
Tgt Ion: 93 Resp: 129
 Ion Ratio Lower Upper
 93 100
 63 69.8 50.4 75.6
 95 31.8 25.7 38.5



#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 915
 Delta R.T. 0.000 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

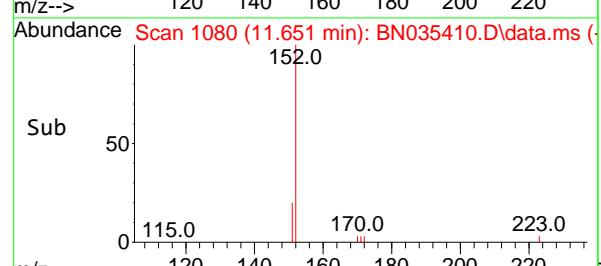
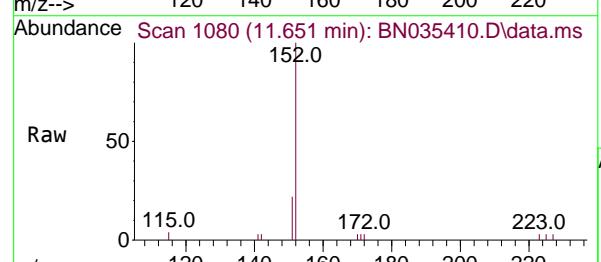
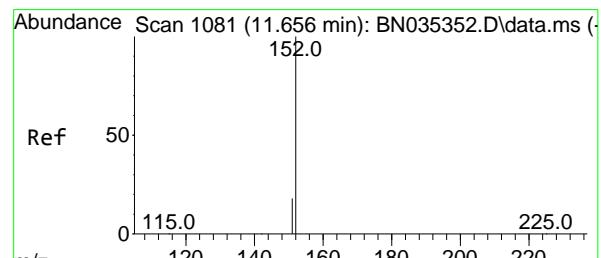
Tgt Ion:136 Resp: 5240
 Ion Ratio Lower Upper
 136 100
 137 12.3 10.2 15.2
 54 5.9 6.1 9.1#
 68 6.0 6.4 9.6#





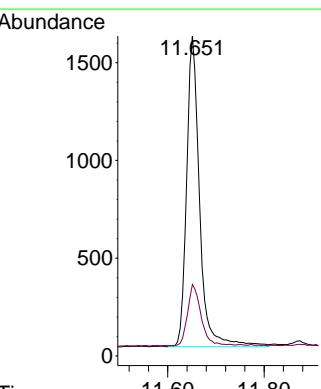
#8
Nitrobenzene-d5
Concen: 0.327 ng m
RT: 8.440 min Scan# 7
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

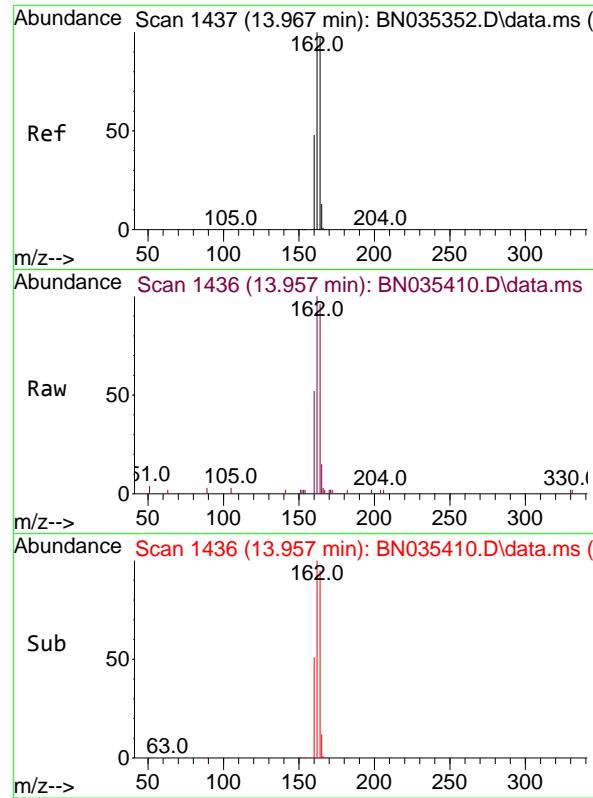
ClientSampleId : RW7-SP200-20241202



#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:152 Resp: 2970
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

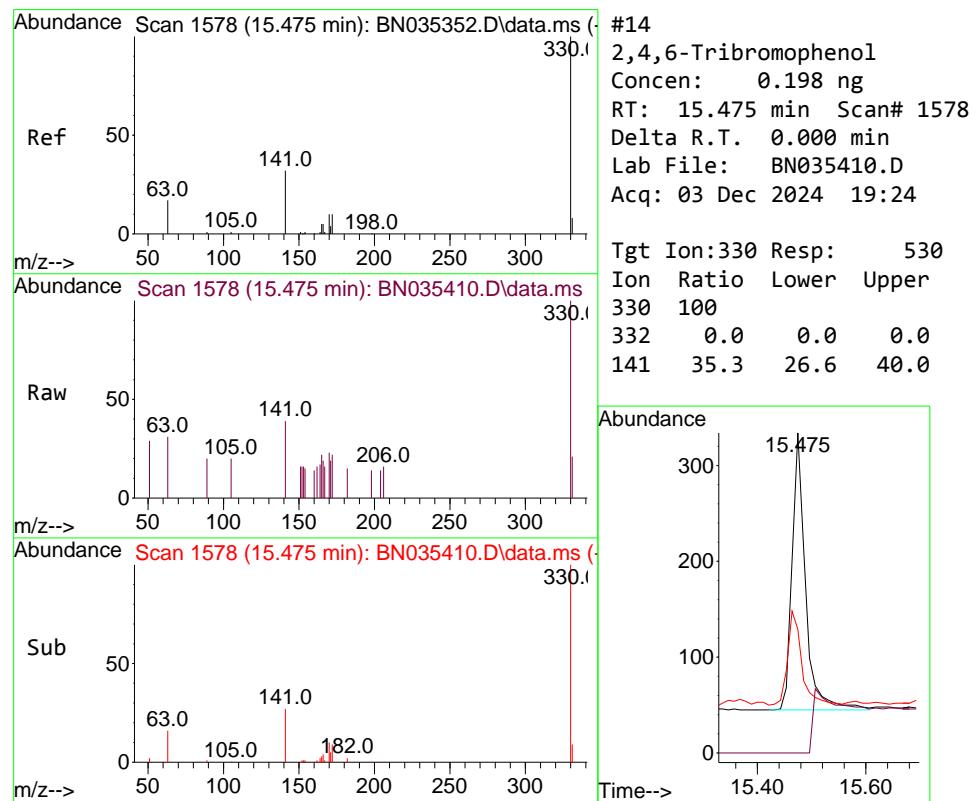
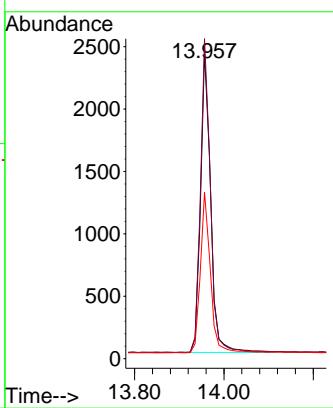




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

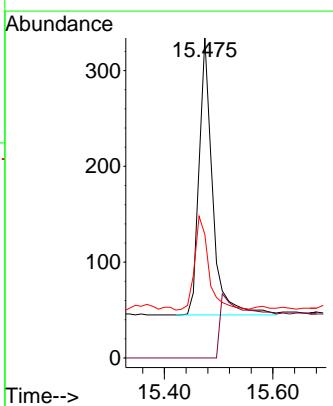
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202

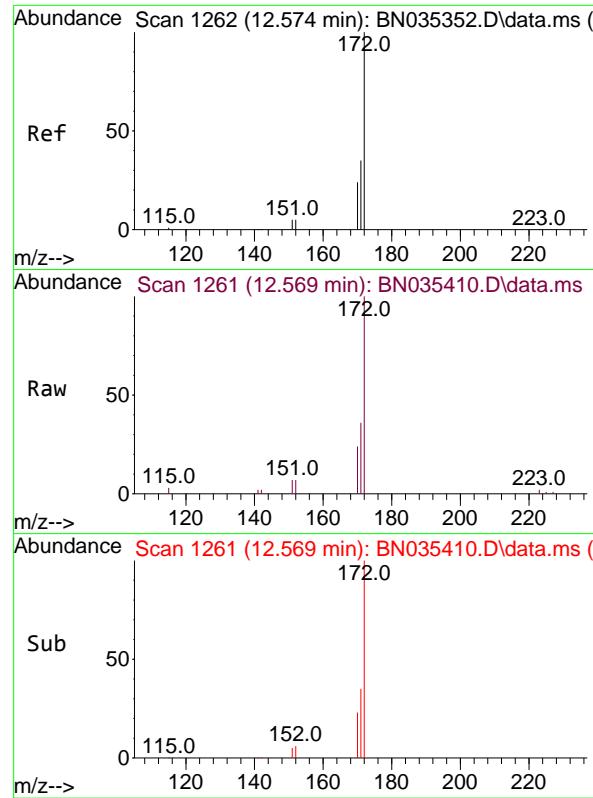
Tgt Ion:164 Resp: 3772
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 54.4 40.1 60.1



#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:330 Resp: 530
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0

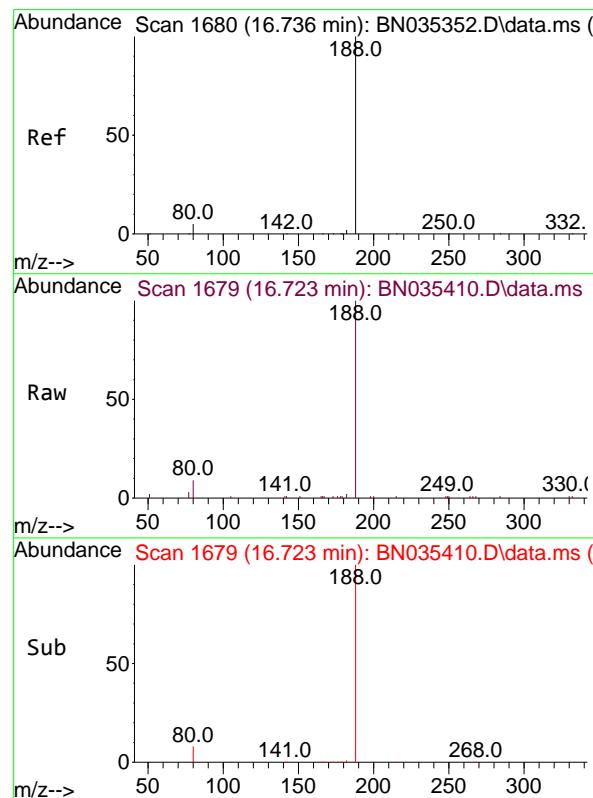
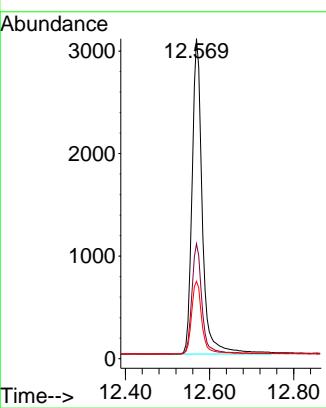




#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

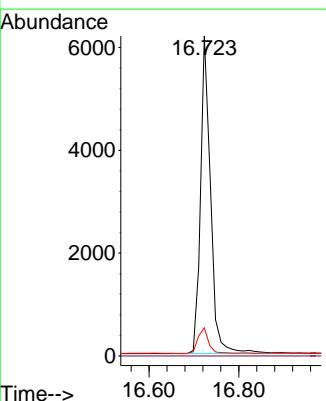
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202

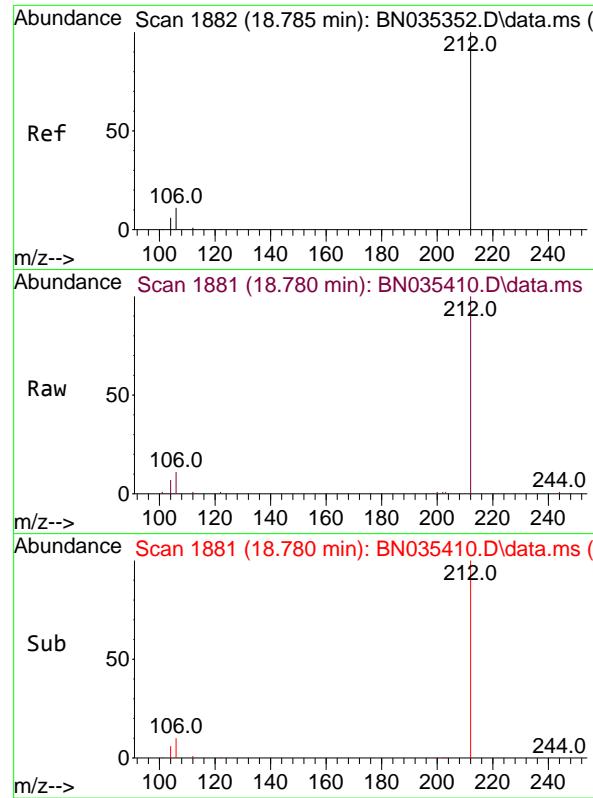
Tgt Ion:172 Resp: 5211
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.1 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:188 Resp: 9570
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8#

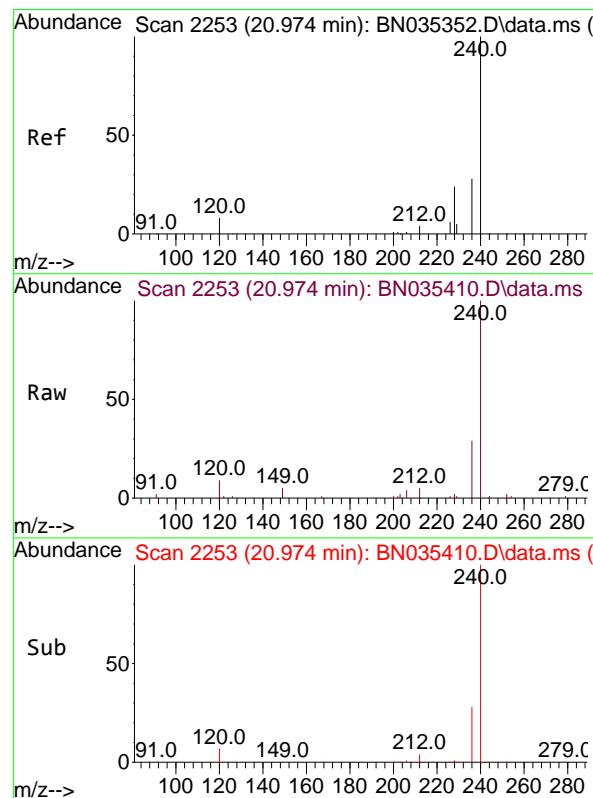
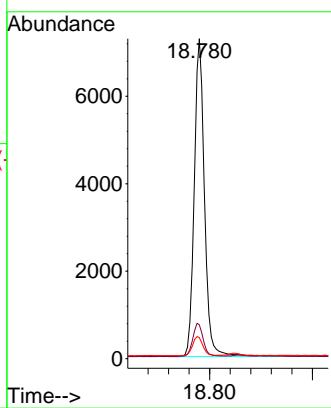




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 18.780 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

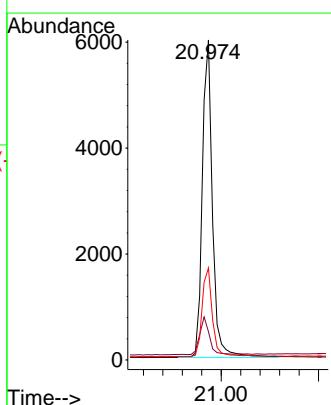
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202

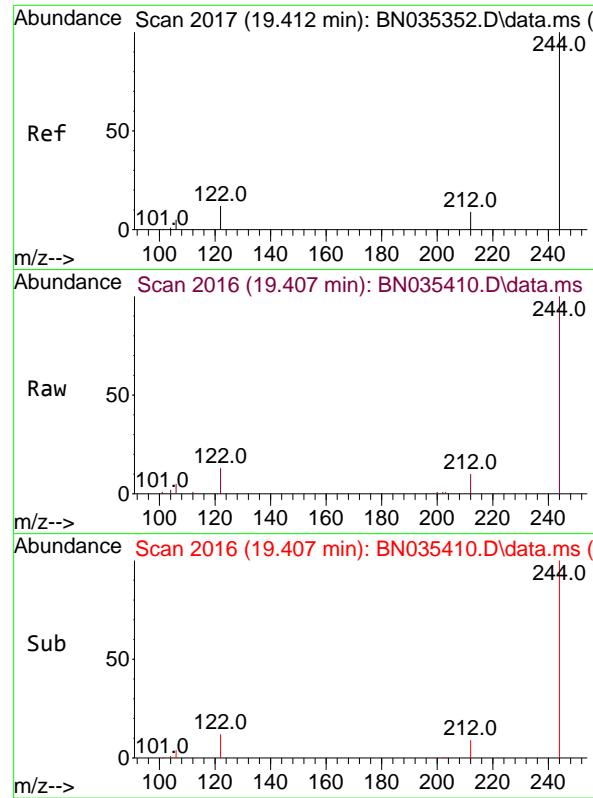
Tgt Ion:212 Resp: 10124
Ion Ratio Lower Upper
212 100
106 10.5 9.2 13.8
104 6.0 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2253
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:240 Resp: 8675
Ion Ratio Lower Upper
240 100
120 8.8 7.9 11.9
236 28.8 22.9 34.3

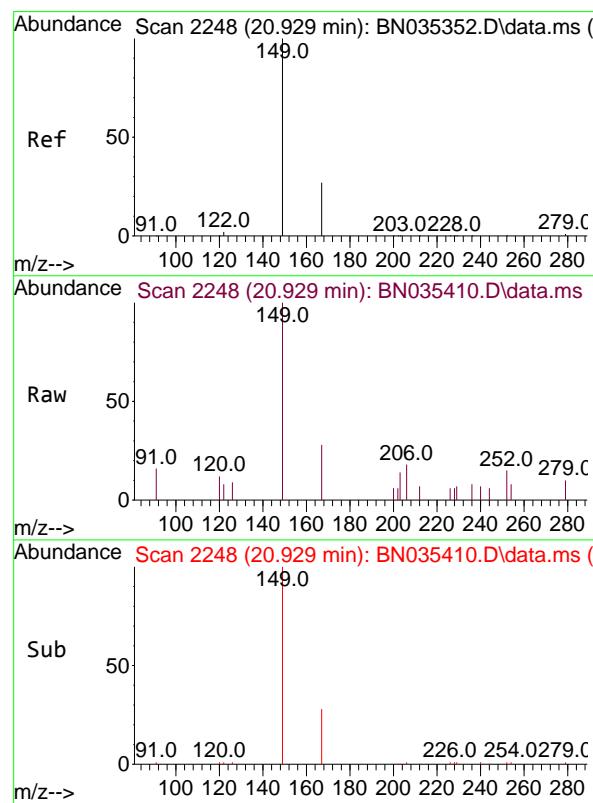
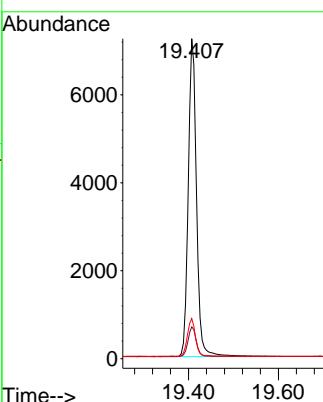




#31
Terphenyl-d14
Concen: 0.540 ng
RT: 19.407 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

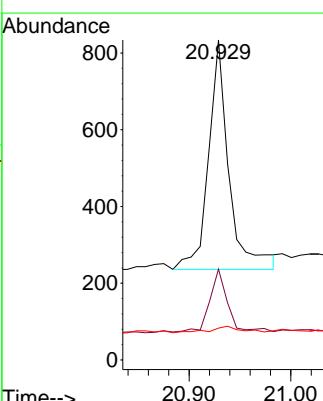
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202

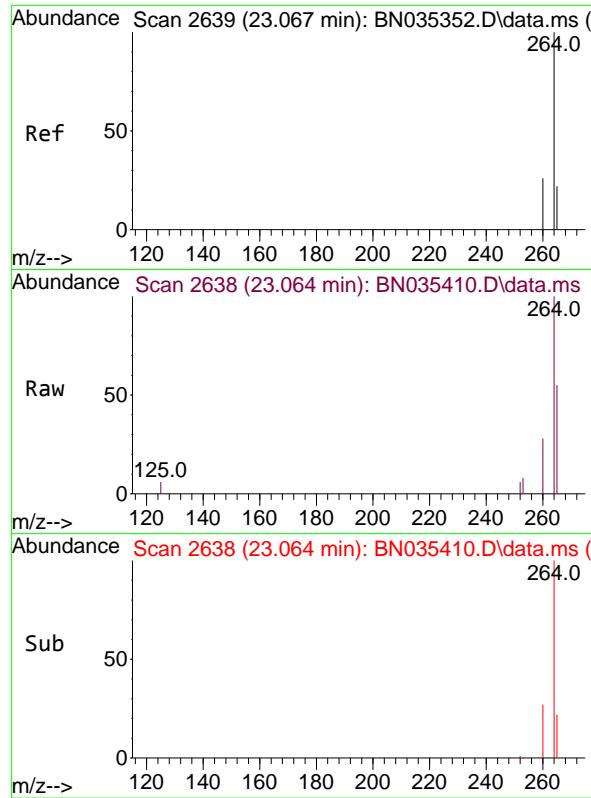
Tgt Ion:244 Resp: 9247
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.6 10.3 15.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.069 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Tgt Ion:149 Resp: 831
Ion Ratio Lower Upper
149 100
167 23.7 22.2 33.4
279 4.2 2.7 4.1#

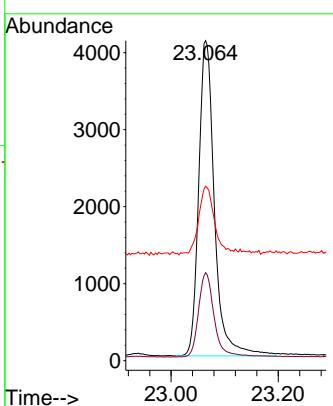




#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.064 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Tgt Ion:264 Resp: 8373
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 54.6 40.2 60.4





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:	12/02/24
Project:	CTO WE13	Date Received:	12/03/24
Client Sample ID:	RW7-SP201-20241202	SDG No.:	P5065
Lab Sample ID:	P5065-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol: 1000 uL
Soil Aliquot Vol:		uL	Test: SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level : LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup : N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035411.D	1	12/03/24 12:30	12/03/24 20:00	PB165348

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	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.58	*	58 - 132		145%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1850		7.308			
1146-65-2	Naphthalene-d8	4560		10.052			
15067-26-2	Acenaphthene-d10	3250		13.967			
1517-22-2	Phenanthrene-d10	8130		16.736			
1719-03-5	Chrysene-d12	6930		20.974			
1520-96-3	Perylene-d12	6310		23.067			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035411.D
 Acq On : 03 Dec 2024 20:00
 Operator : RC/JU
 Sample : P5065-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 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

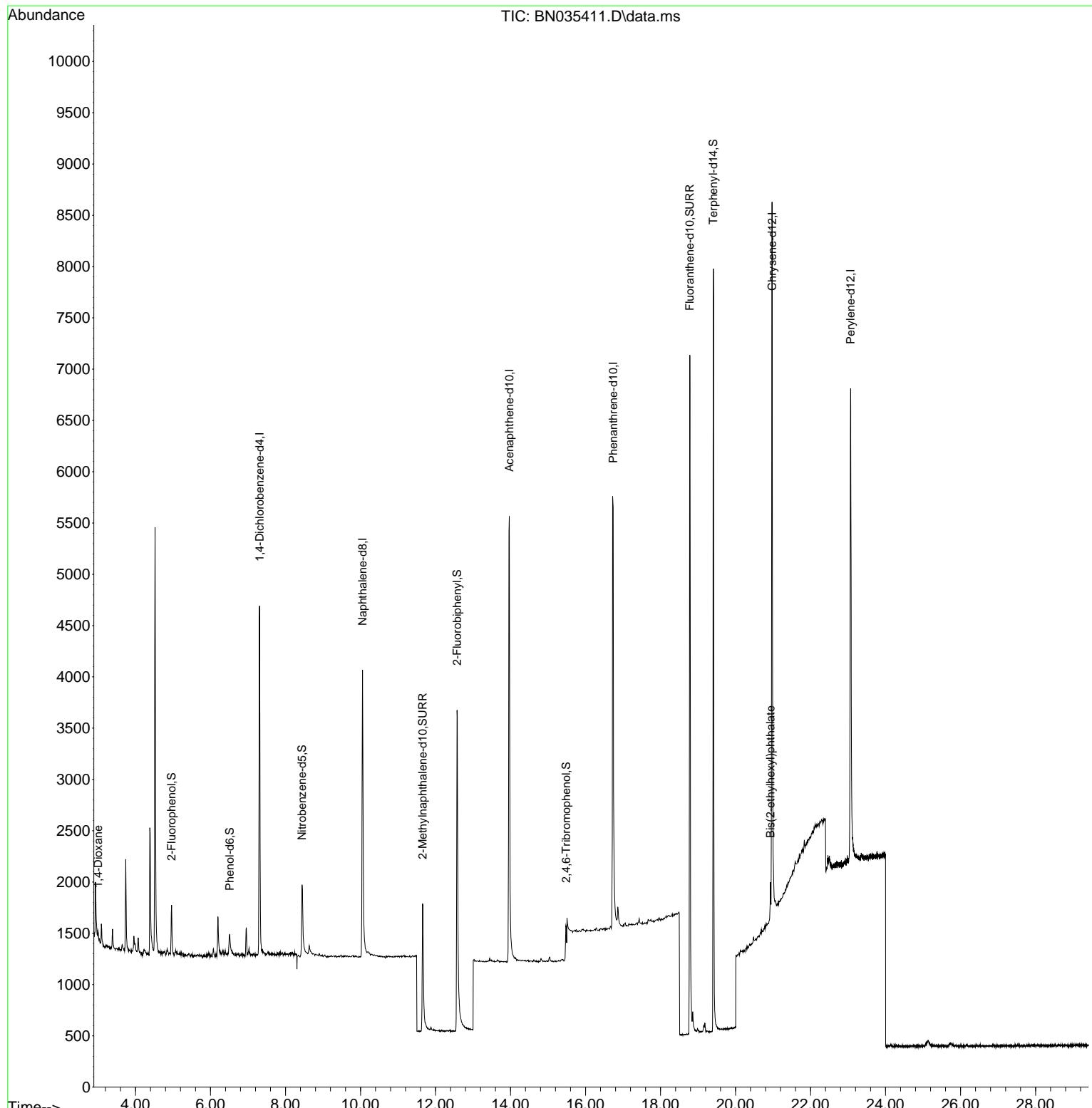
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1851	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4555	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3248	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8127	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6931	0.400	ng	0.00
35) Perylene-d12	23.067	264	6312	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	428	0.092	ng	0.00
5) Phenol-d6	6.513	99	268	0.048	ng	0.00
8) Nitrobenzene-d5	8.440	82	974m	0.350	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2531	0.355	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	441	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	4425	0.360	ng	0.00
27) Fluoranthene-d10	18.780	212	8690	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	7900	0.578	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.003	88	109	0.062	ng	# 68
34) Bis(2-ethylhexyl)phtha...	20.929	149	402	0.042	ng	93

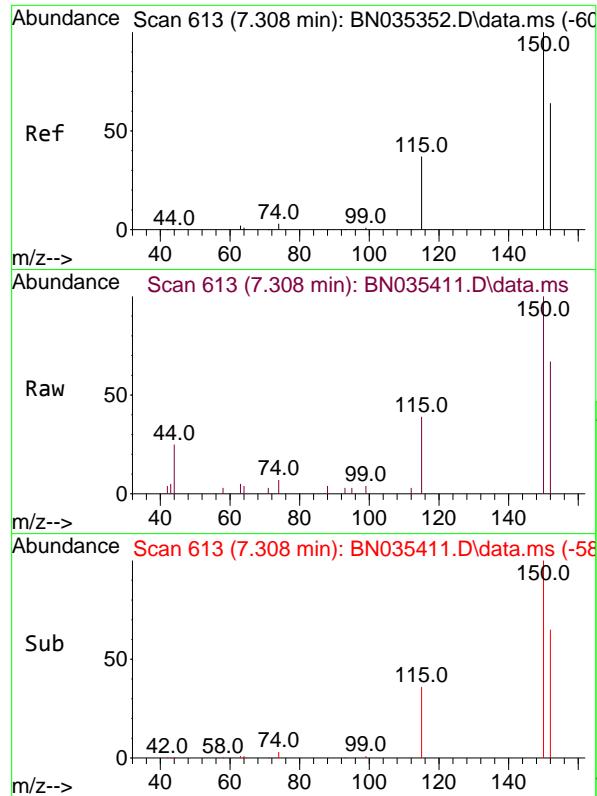
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035411.D
 Acq On : 03 Dec 2024 20:00
 Operator : RC/JU
 Sample : P5065-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

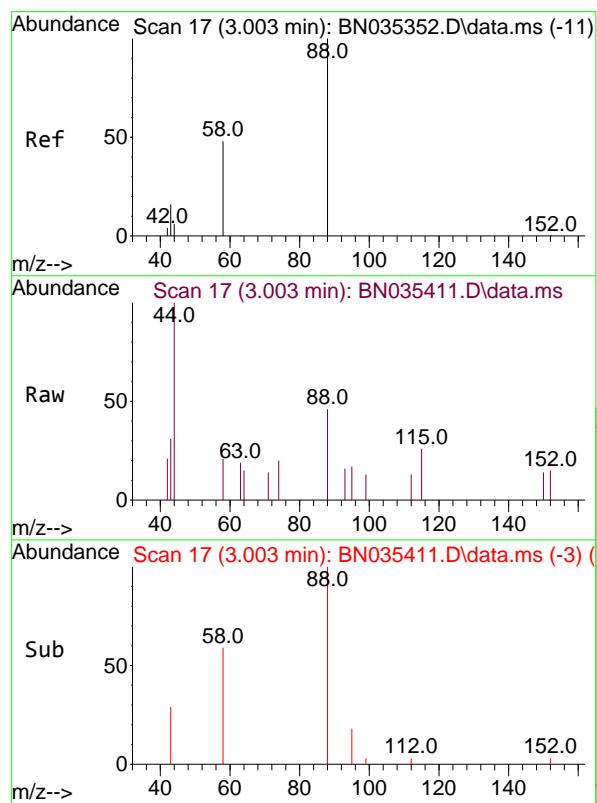
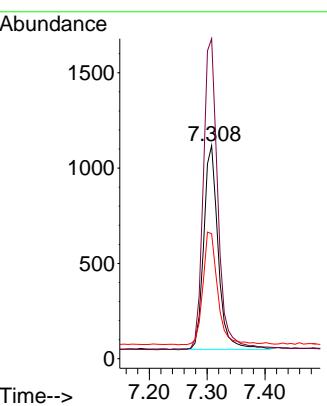




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

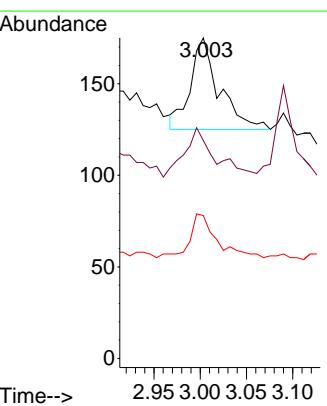
Instrument : BNA_N
ClientSampleId : RW7-SP201-20241202

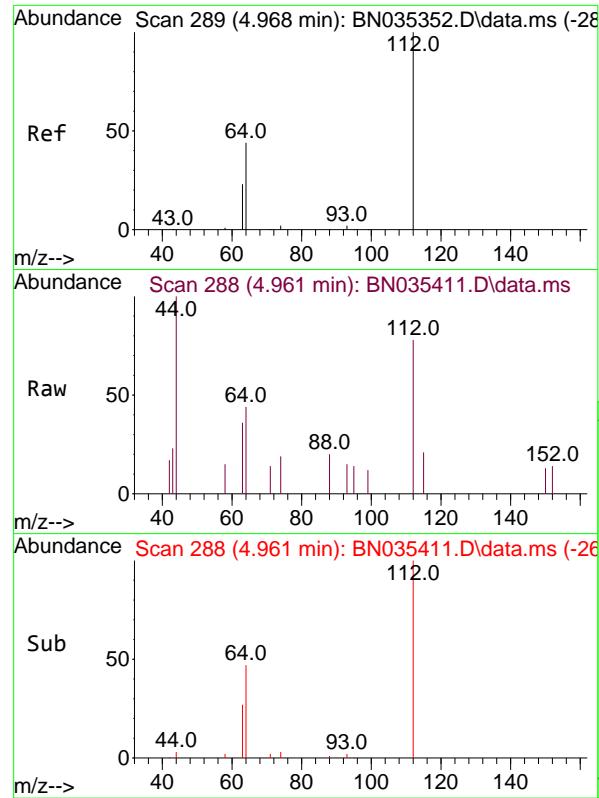
Tgt Ion:152 Resp: 1851
Ion Ratio Lower Upper
152 100
150 150.2 124.0 186.0
115 58.7 49.6 74.4



#2
1,4-Dioxane
Concen: 0.062 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 56.9 17.2 25.8#
58 44.0 44.5 66.7#

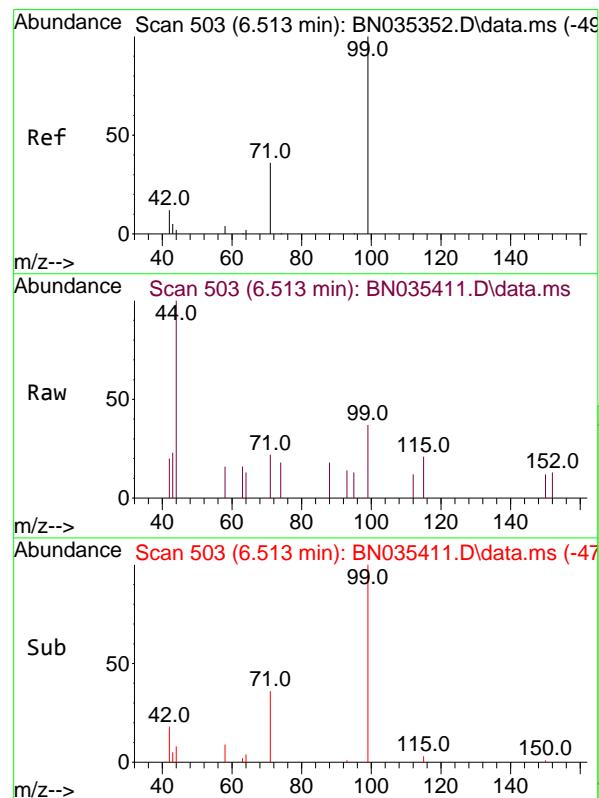
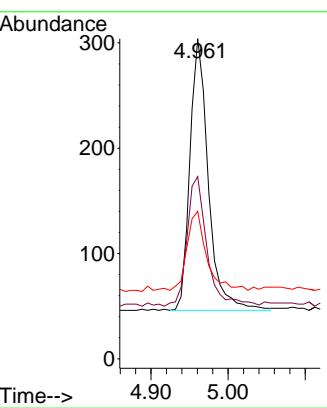




#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.961 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

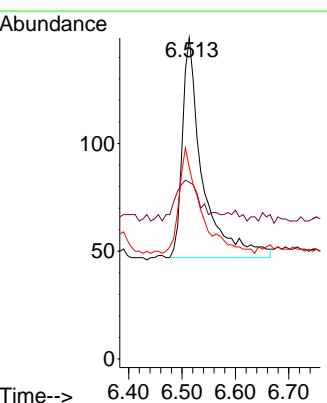
Instrument : BNA_N
ClientSampleId : RW7-SP201-20241202

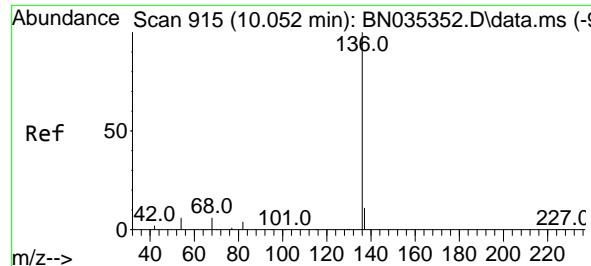
Tgt Ion:112 Resp: 428
Ion Ratio Lower Upper
112 100
64 51.6 39.8 59.8
63 30.6 21.0 31.6



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.513 min Scan# 503
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

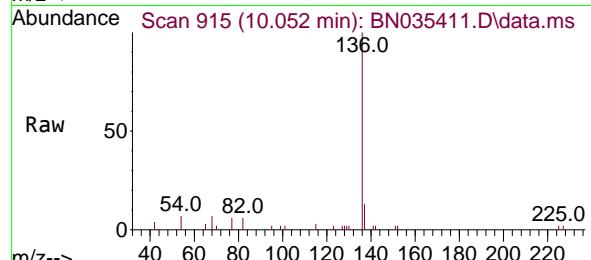
Tgt Ion: 99 Resp: 268
Ion Ratio Lower Upper
99 100
42 23.1 11.4 17.2#
71 50.7 29.3 43.9#





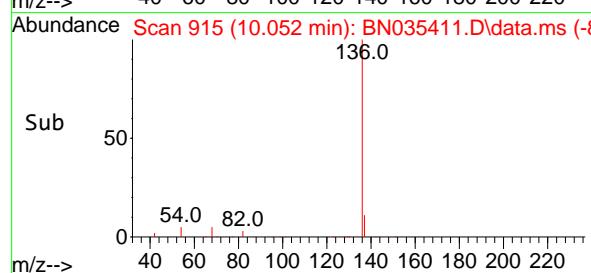
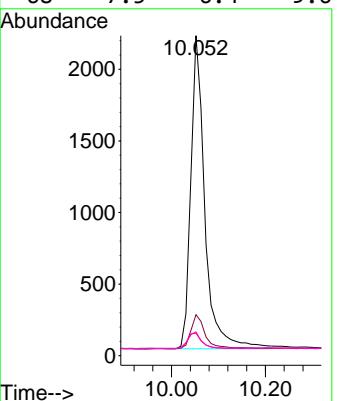
#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Instrument : BNA_N
 ClientSampleId : RW7-SP201-20241202



Tgt Ion:136 Resp: 4555

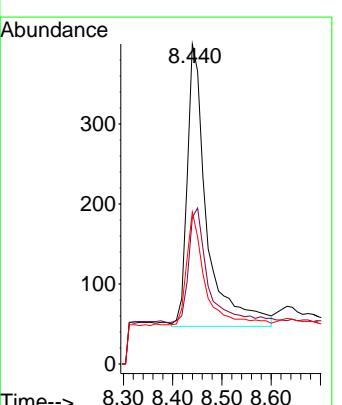
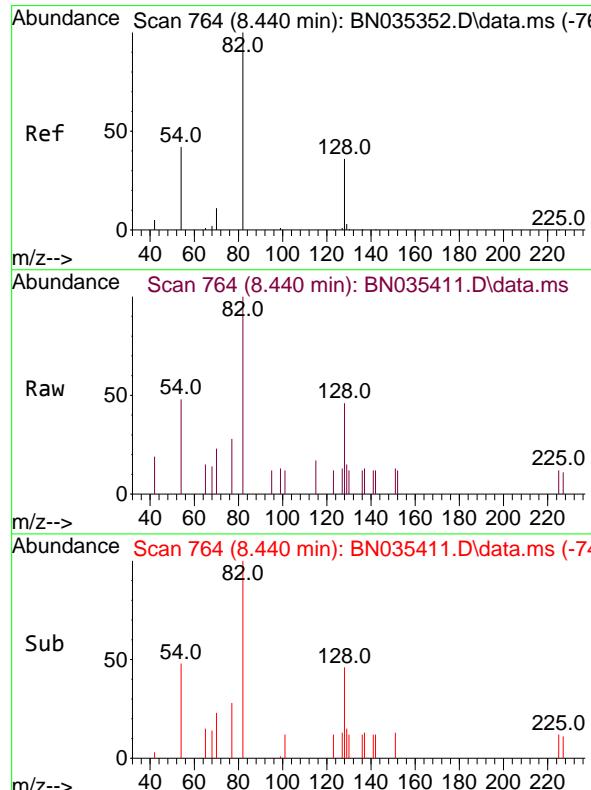
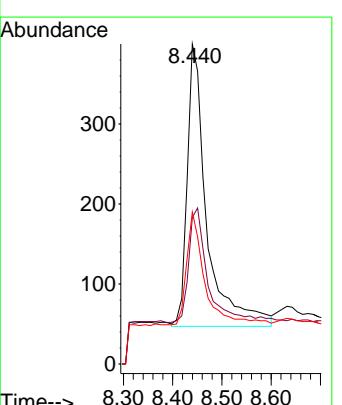
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.2	15.2
54	7.1	6.1	9.1
68	7.5	6.4	9.6

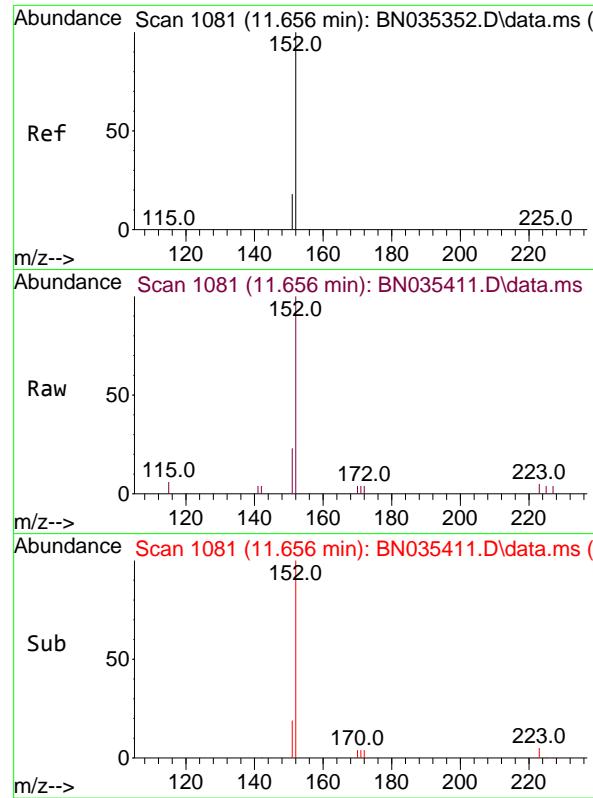


#8
 Nitrobenzene-d5
 Concen: 0.350 ng m
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Tgt Ion: 82 Resp: 974

Ion	Ratio	Lower	Upper
82	100		
128	45.8	33.4	50.0
54	47.5	36.7	55.1

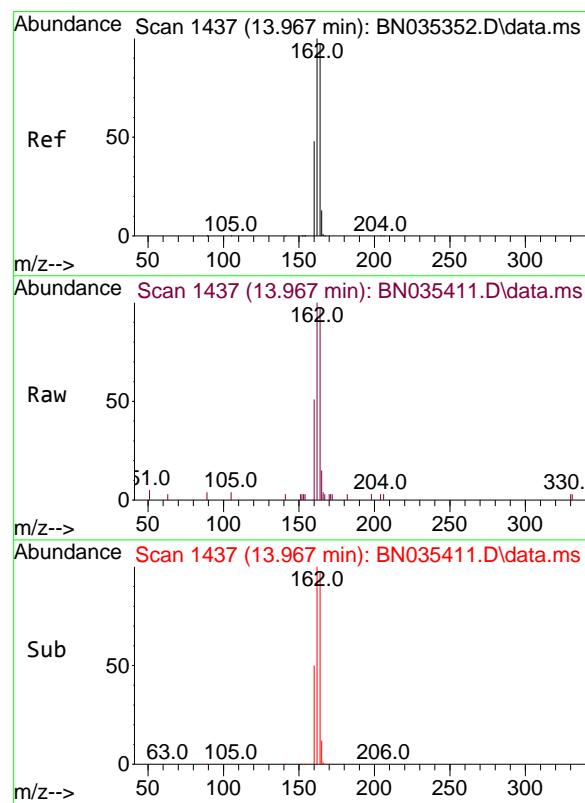
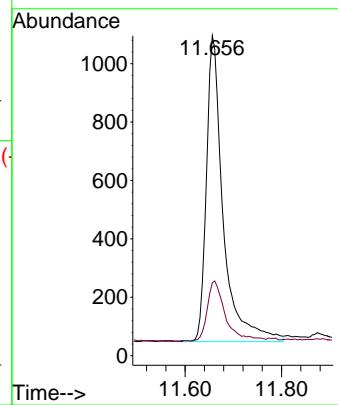




#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 11.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

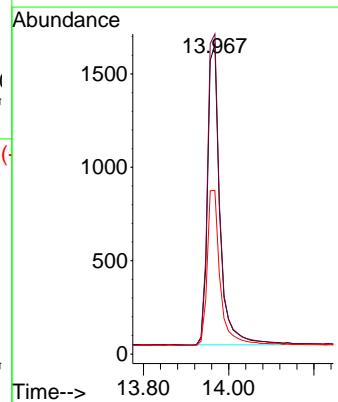
Instrument : BNA_N
ClientSampleId : RW7-SP201-20241202

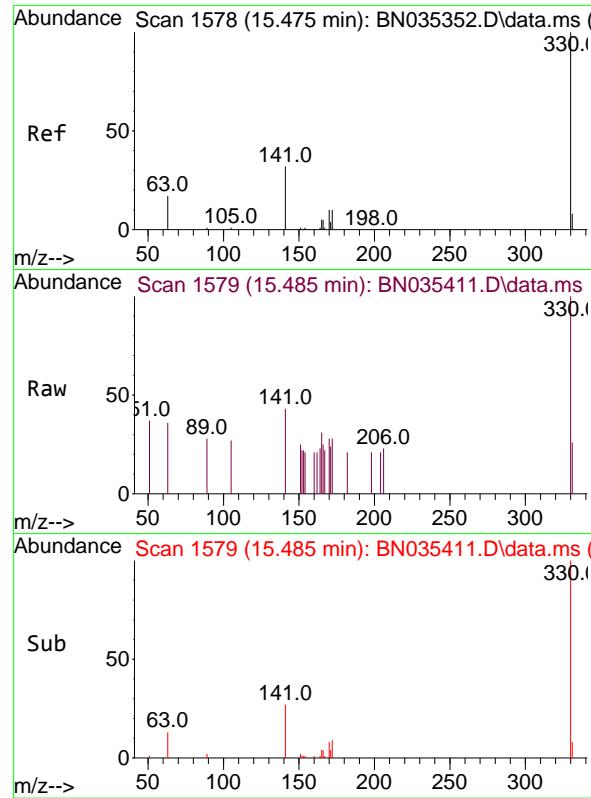
Tgt Ion:152 Resp: 2531
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:164 Resp: 3248
Ion Ratio Lower Upper
164 100
162 103.3 82.2 123.2
160 52.8 40.1 60.1





#14

2,4,6-Tribromophenol

Concen: 0.191 ng

RT: 15.485 min Scan# 1

Delta R.T. 0.011 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241202

Tgt Ion:330 Resp: 441

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 40.8 26.6 40.0#

Abundance

200

150

100

50

0

15.485

Time-->

15.40 15.42 15.44 15.46 15.48 15.50 15.52 15.54 15.56

#15

2-Fluorobiphenyl

Concen: 0.360 ng

RT: 12.574 min Scan# 1262

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Tgt Ion:172 Resp: 4425

Ion Ratio Lower Upper

172 100

171 37.0 29.0 43.4

170 26.1 19.8 29.8

Abundance

1500

1000

500

0

12.574

Time-->

12.60 12.62 12.64 12.66 12.68 12.70 12.72 12.74

Sub

50

0

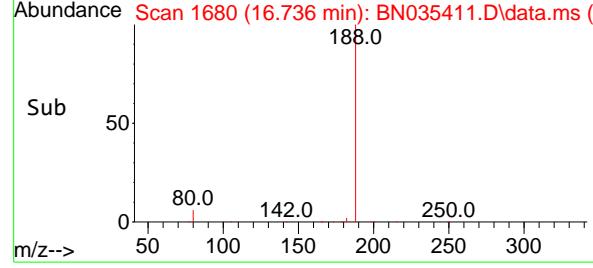
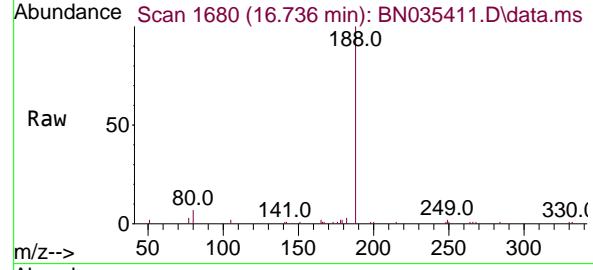
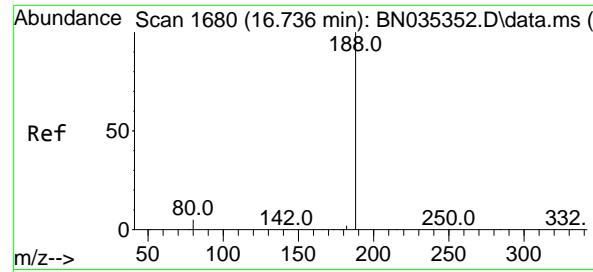
115.0

152.0

172.0

223.0

m/z-->



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.736 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

Instrument :

BNA_N

ClientSampleId :

RW7-SP201-20241202

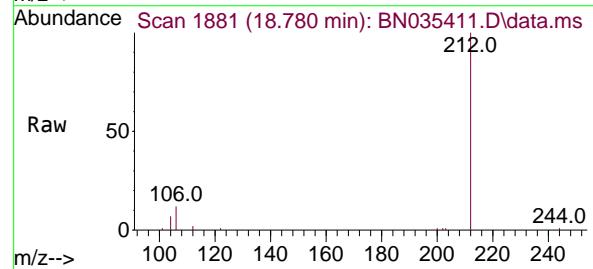
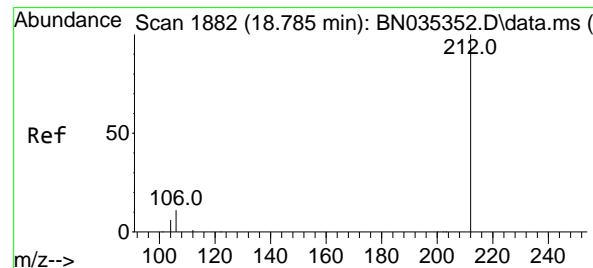
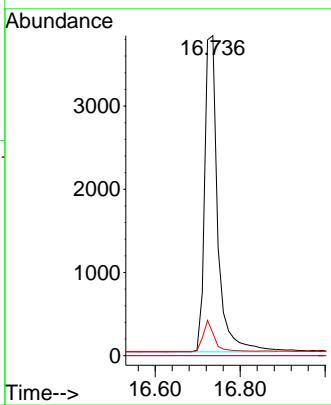
Tgt Ion:188 Resp: 8127

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.0 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.377 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

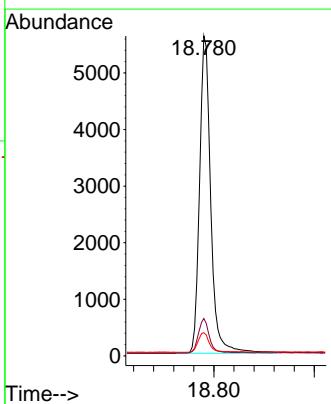
Tgt Ion:212 Resp: 8690

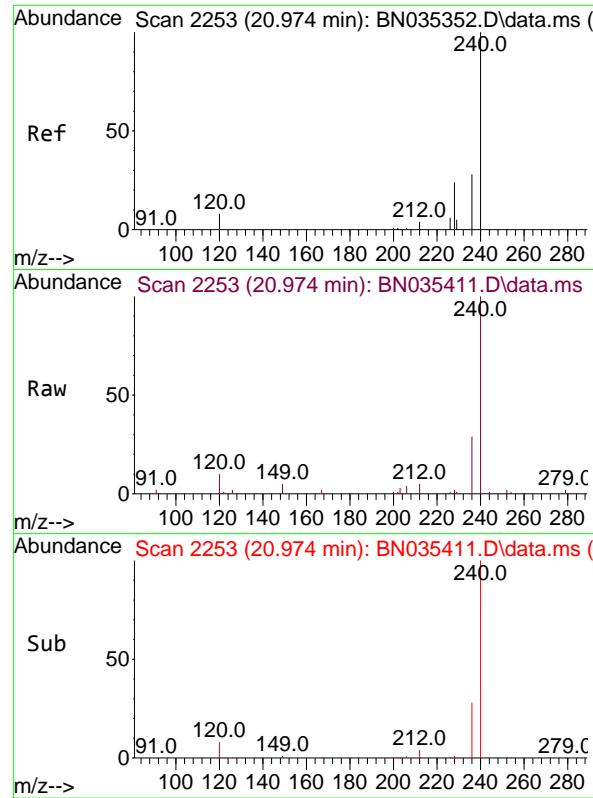
Ion Ratio Lower Upper

212 100

106 10.5 9.2 13.8

104 6.5 5.3 7.9

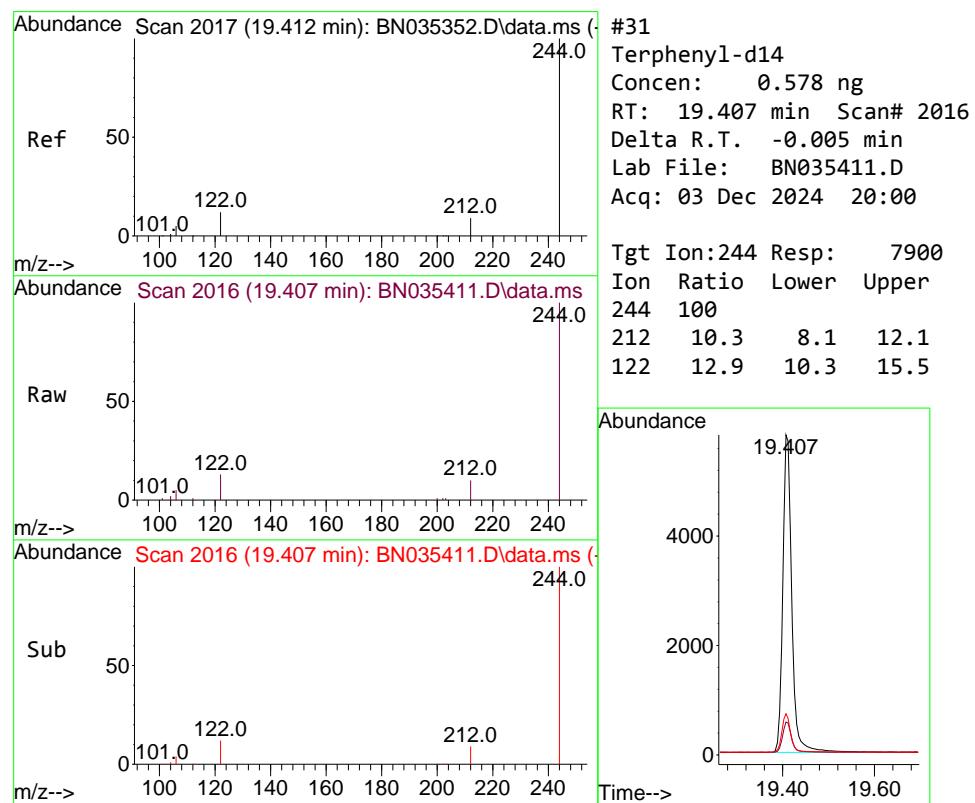
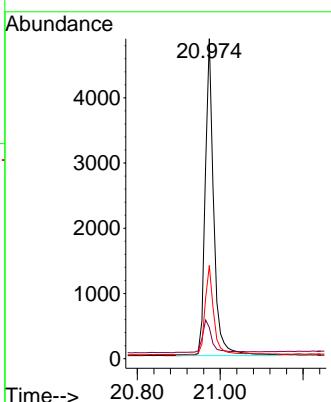




#29
Chrysene-d₁₂
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

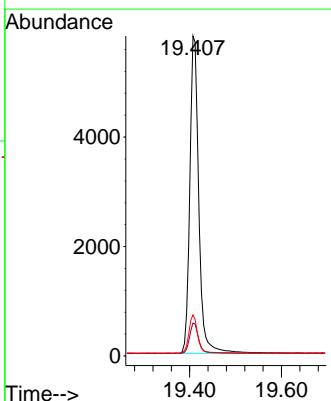
Instrument : BNA_N
ClientSampleId : RW7-SP201-20241202

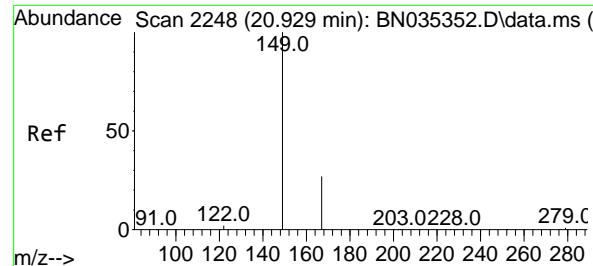
Tgt Ion:240 Resp: 6931
Ion Ratio Lower Upper
240 100
120 9.7 7.9 11.9
236 29.1 22.9 34.3



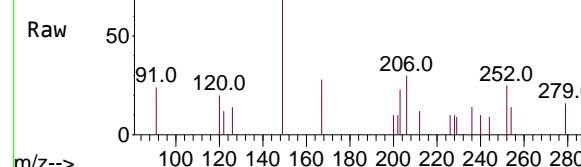
#31
Terphenyl-d₁₄
Concen: 0.578 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

Tgt Ion:244 Resp: 7900
Ion Ratio Lower Upper
244 100
212 10.3 8.1 12.1
122 12.9 10.3 15.5

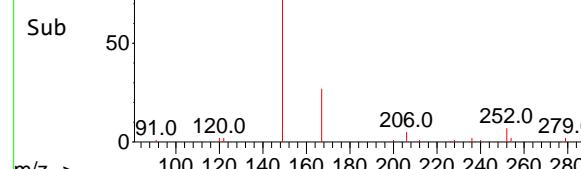




Abundance Scan 2248 (20.929 min): BN035411.D\data.ms (-)



Abundance Scan 2248 (20.929 min): BN035411.D\data.ms (-)



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.042 ng

RT: 20.929 min Scan# 2

Instrument :

Delta R.T. 0.000 min

BNA_N

Lab File: BN035411.D ClientSampleId :

Acq: 03 Dec 2024 20:00 RW7-SP201-20241202

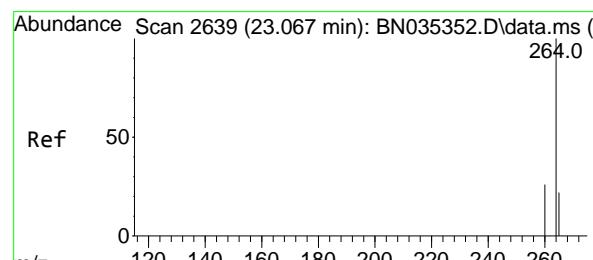
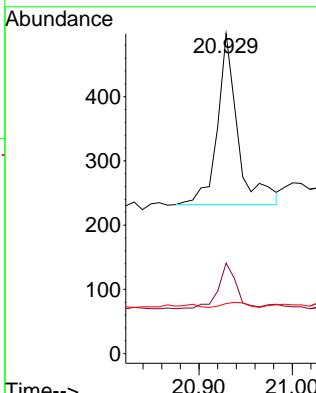
Tgt Ion:149 Resp: 402

Ion Ratio Lower Upper

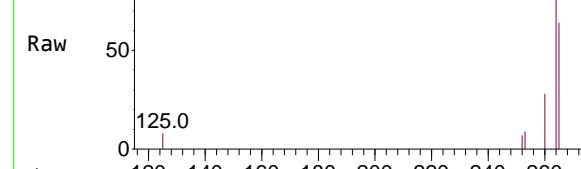
149 100

167 23.9 22.2 33.4

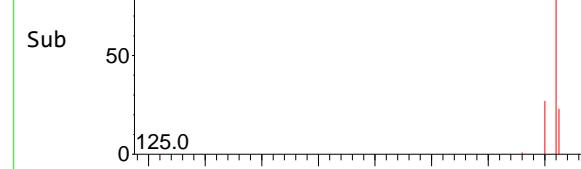
279 3.2 2.7 4.1



Abundance Scan 2639 (23.067 min): BN035411.D\data.ms (-)



Abundance Scan 2639 (23.067 min): BN035411.D\data.ms (-)



#35

Perylene-d₁₂

Concen: 0.400 ng

RT: 23.067 min Scan# 2639

Delta R.T. 0.000 min

Lab File: BN035411.D

Acq: 03 Dec 2024 20:00

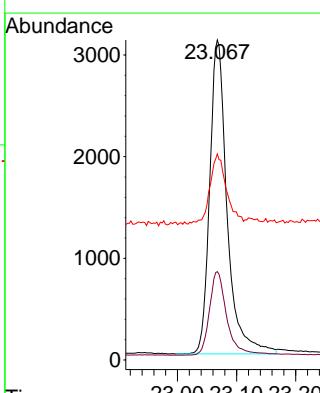
Tgt Ion:264 Resp: 6312

Ion Ratio Lower Upper

264 100

260 27.6 21.4 32.2

265 64.4 40.2 60.4#





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:	12/02/24
Project:	CTO WE13	Date Received:	12/03/24
Client Sample ID:	RW7-SP300A-20241202	SDG No.:	P5065
Lab Sample ID:	P5065-06	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	990	Units: mL	Final Vol: 1000 uL
Soil Aliquot Vol:		uL	Test: SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level : LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup : N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035412.D	1	12/03/24 12:30	12/03/24 20:36	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.57		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.60	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640		7.308			
1146-65-2	Naphthalene-d8	4080		10.052			
15067-26-2	Acenaphthene-d10	2950		13.956			
1517-22-2	Phenanthrene-d10	7430		16.723			
1719-03-5	Chrysene-d12	6340		20.973			
1520-96-3	Perylene-d12	5800		23.067			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035412.D
 Acq On : 03 Dec 2024 20:36
 Operator : RC/JU
 Sample : P5065-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

Quant Time: Dec 03 22:06:12 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

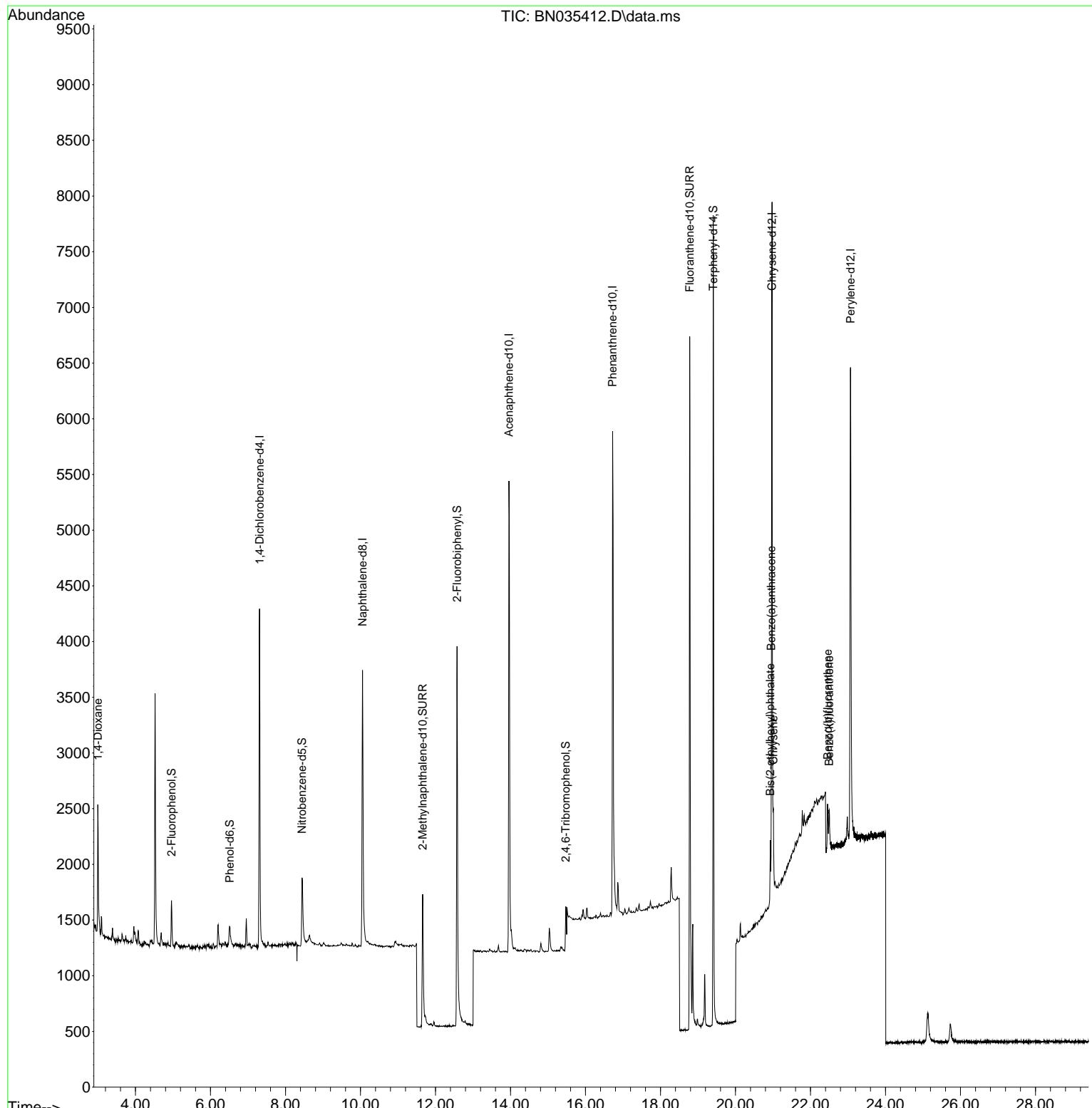
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1636	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4083	0.400	ng	0.00
13) Acenaphthene-d10	13.956	164	2951	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7433	0.400	ng	#-0.01
29) Chrysene-d12	20.973	240	6344	0.400	ng	0.00
35) Perylene-d12	23.067	264	5799	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	375	0.092	ng	0.00
5) Phenol-d6	6.513	99	224	0.045	ng	0.00
8) Nitrobenzene-d5	8.440	82	804	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2329	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.474	330	435	0.208	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	4173	0.374	ng	0.00
27) Fluoranthene-d10	18.780	212	7907	0.375	ng	0.00
31) Terphenyl-d14	19.407	244	7562	0.604	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	884	0.565	ng	98
32) Benzo(a)anthracene	20.956	228	457	0.021	ng	# 79
33) Chrysene	21.009	228	622	0.027	ng	# 85
34) Bis(2-ethylhexyl)phtha...	20.929	149	548	0.063	ng	# 98
37) Benzo(b)fluoranthene	22.456	252	598	0.028	ng	# 16
38) Benzo(k)fluoranthene	22.500	252	476	0.023	ng	# 4

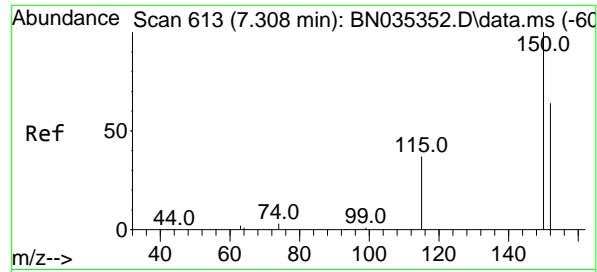
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035412.D
 Acq On : 03 Dec 2024 20:36
 Operator : RC/JU
 Sample : P5065-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

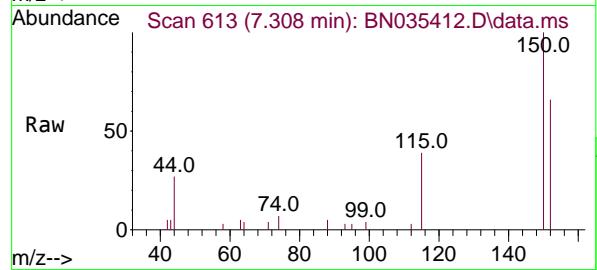
Instrument :
 BNA_N
 ClientSampleId :
 RW7-SP300A-20241202

Quant Time: Dec 03 22:06:12 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

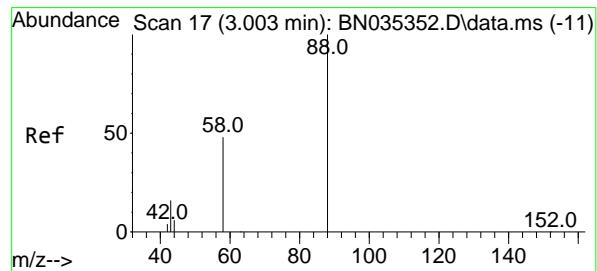
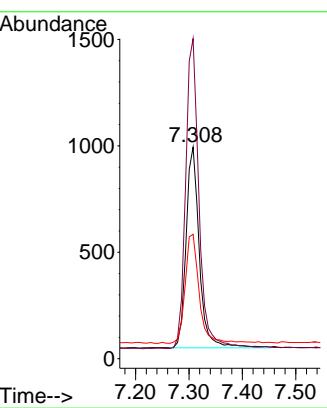
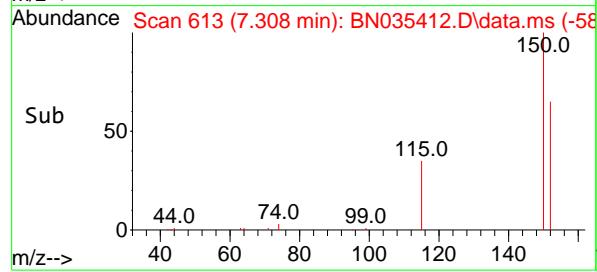




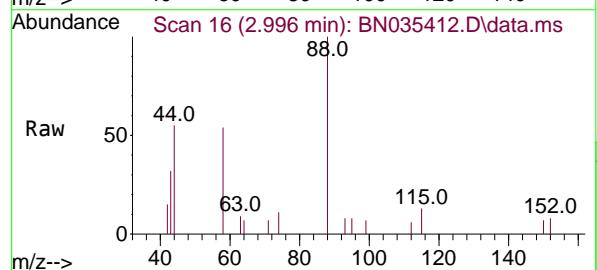
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36
ClientSampleId : RW7-SP300A-20241202



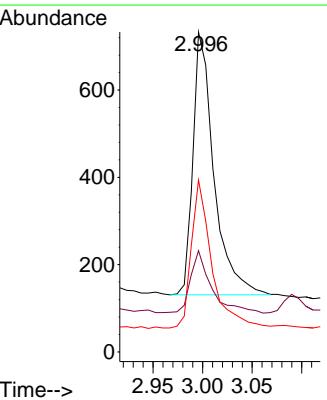
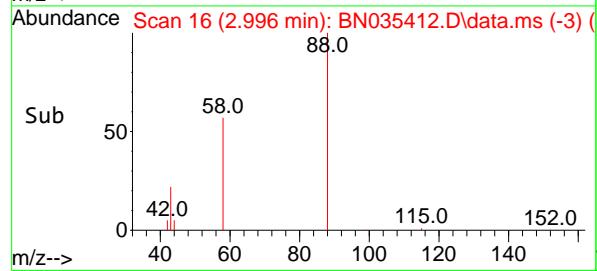
Tgt Ion:152 Resp: 1636
Ion Ratio Lower Upper
152 100
150 151.3 124.0 186.0
115 58.9 49.6 74.4

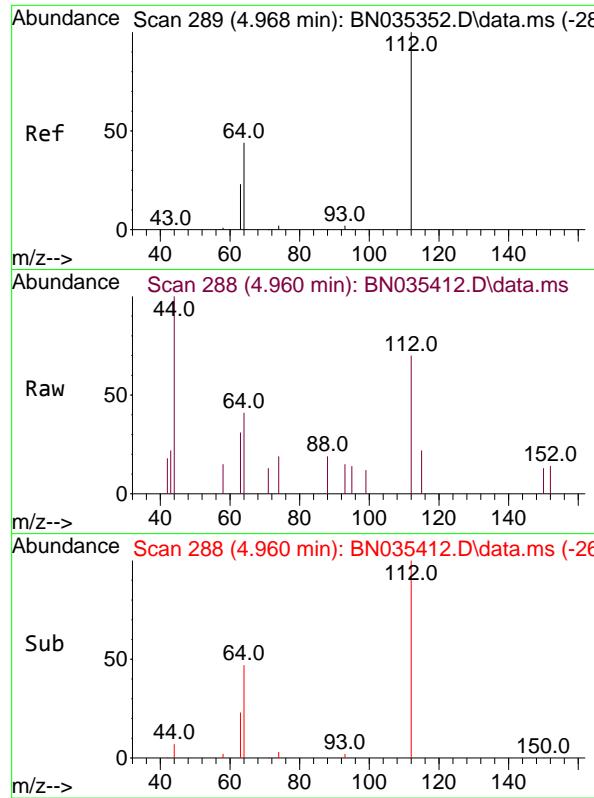


#2
1,4-Dioxane
Concen: 0.565 ng
RT: 2.996 min Scan# 16
Instrument : BNA_N
Delta R.T. -0.007 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36



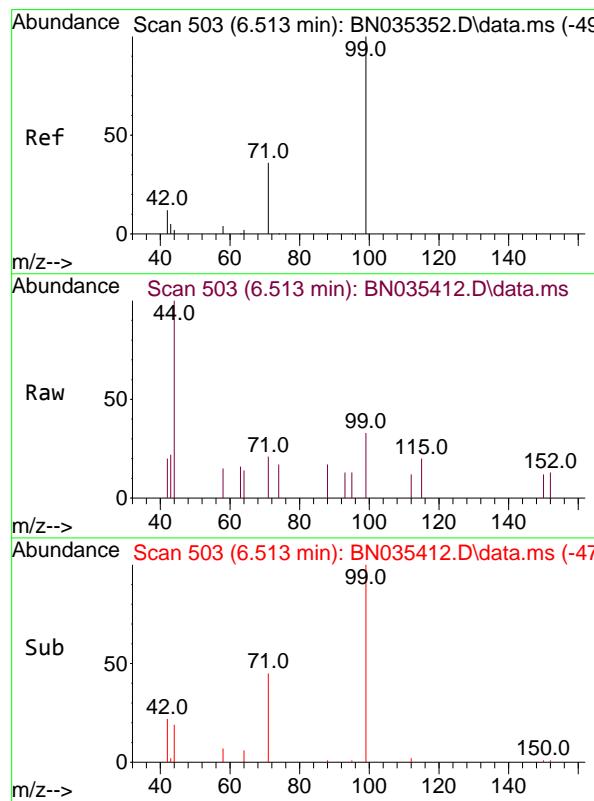
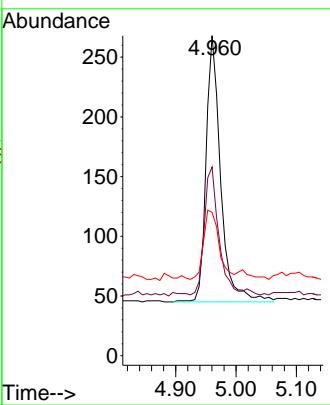
Tgt Ion: 88 Resp: 884
Ion Ratio Lower Upper
88 100
43 23.6 17.2 25.8
58 54.8 44.5 66.7





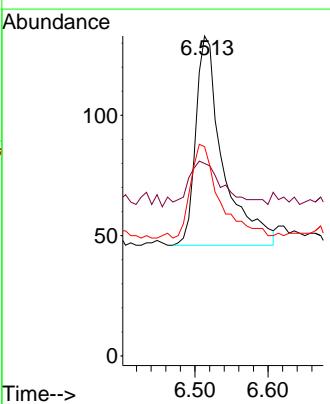
#4
2-Fluorophenol
Concen: 0.092 ng
RT: 4.960 min Scan# 2
Instrument : BNA_N
Delta R.T. -0.007 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

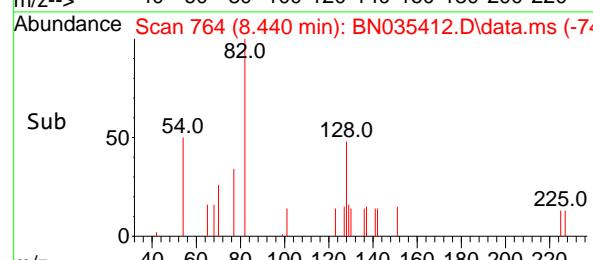
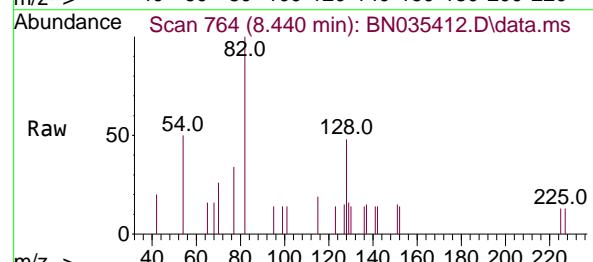
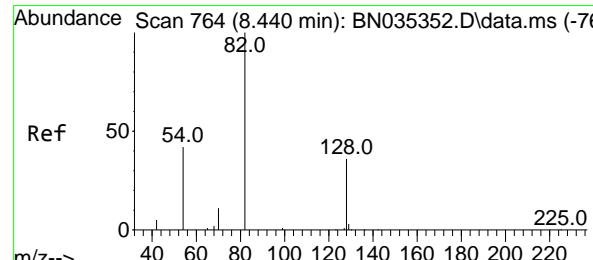
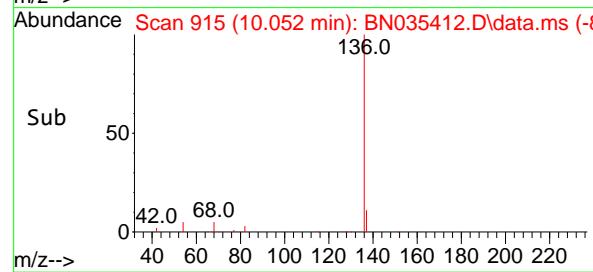
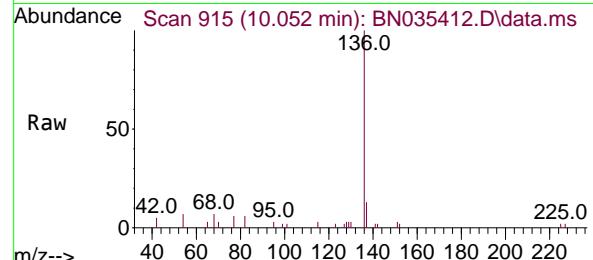
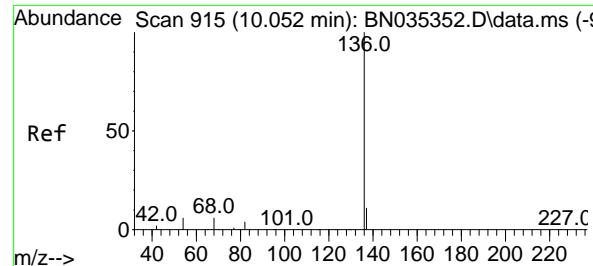
Tgt Ion:112 Resp: 375
Ion Ratio Lower Upper
112 100
64 46.9 39.8 59.8
63 27.2 21.0 31.6



#5
Phenol-d6
Concen: 0.045 ng
RT: 6.513 min Scan# 503
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion: 99 Resp: 224
Ion Ratio Lower Upper
99 100
42 24.6 11.4 17.2#
71 48.7 29.3 43.9#





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 9

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

Tgt Ion:136 Resp: 4083

Ion Ratio Lower Upper

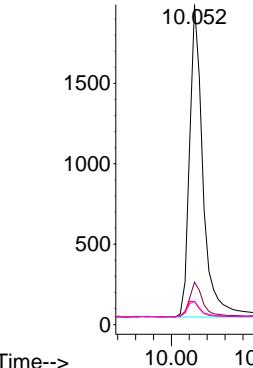
136 100

137 13.3 10.2 15.2

54 7.2 6.1 9.1

68 7.3 6.4 9.6

Abundance



#8

Nitrobenzene-d5

Concen: 0.322 ng

RT: 8.440 min Scan# 764

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Tgt Ion: 82 Resp: 804

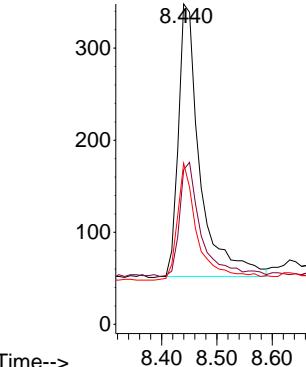
Ion Ratio Lower Upper

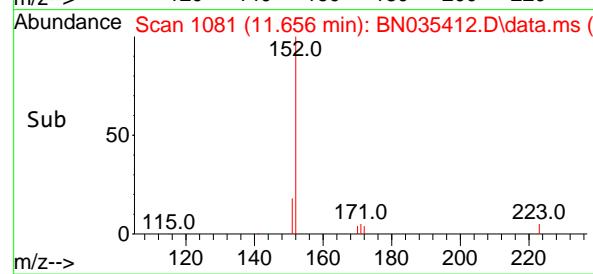
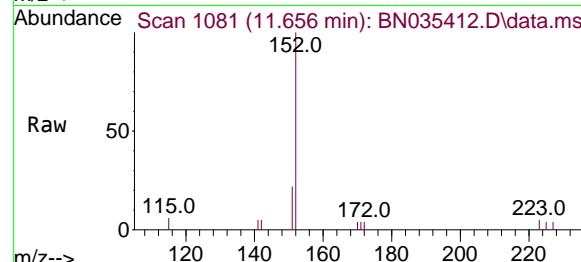
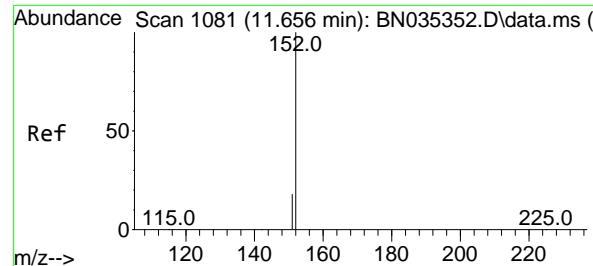
82 100

128 48.3 33.4 50.0

54 50.3 36.7 55.1

Abundance

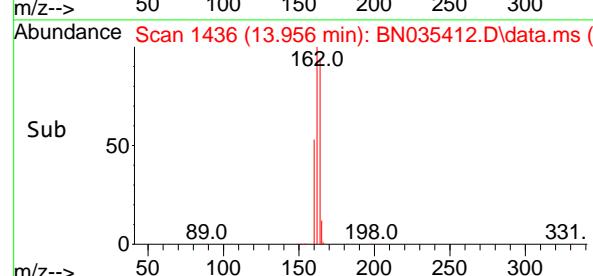
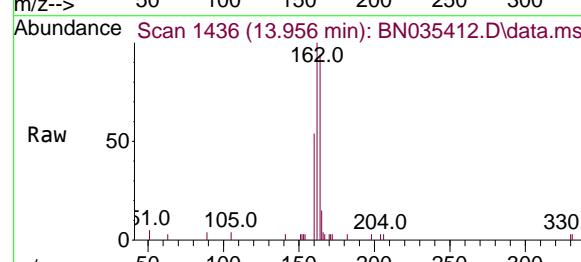
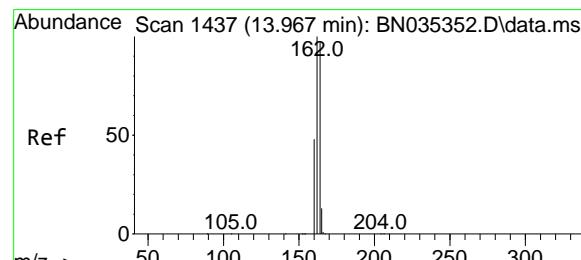
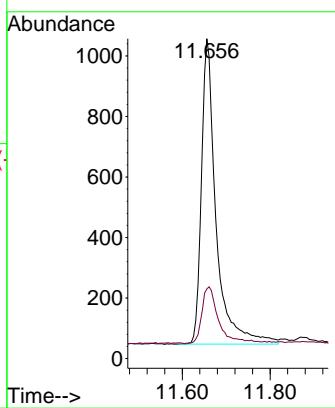




#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

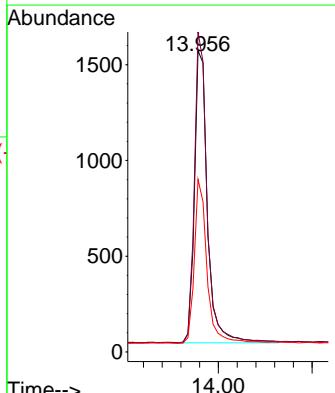
Instrument : BNA_N
ClientSampleId : RW7-SP300A-20241202

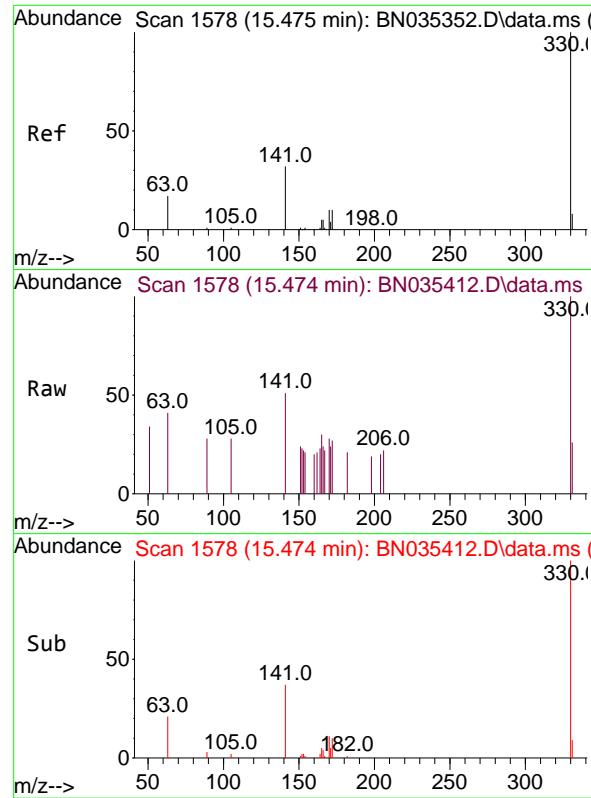
Tgt Ion:152 Resp: 2329
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.956 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:164 Resp: 2951
Ion Ratio Lower Upper
164 100
162 106.2 82.2 123.2
160 57.3 40.1 60.1





#14

2,4,6-Tribromophenol

Concen: 0.208 ng

RT: 15.474 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

Tgt Ion:330 Resp: 435

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 39.1 26.6 40.0

Abundance

15.474

200

150

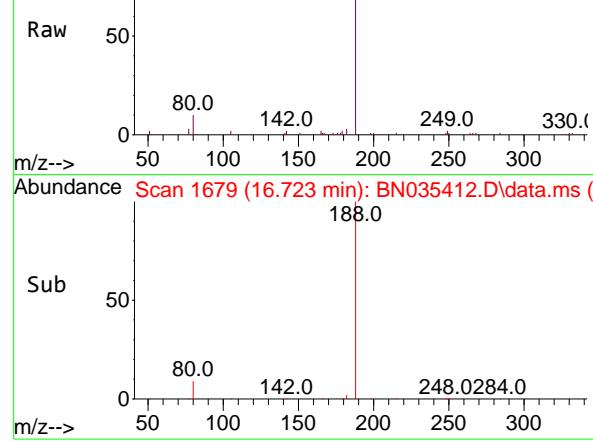
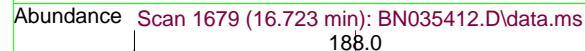
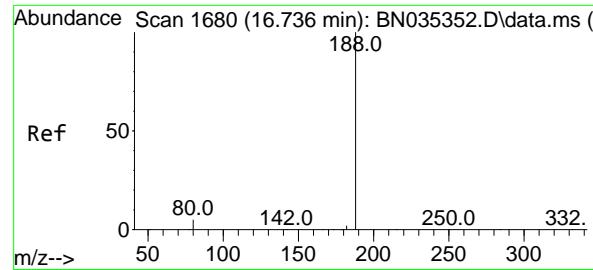
100

50

0

Time-->

15.40 15.42 15.44 15.46 15.48 15.50 15.52 15.54 15.56



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :
 BNA_N
ClientSampleId :
 RW7-SP300A-20241202

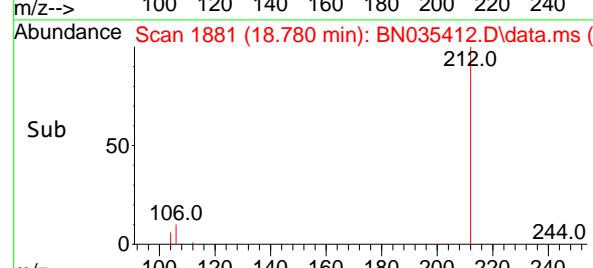
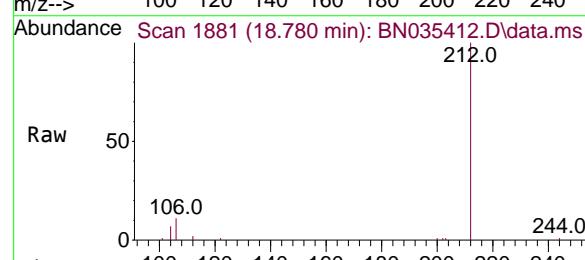
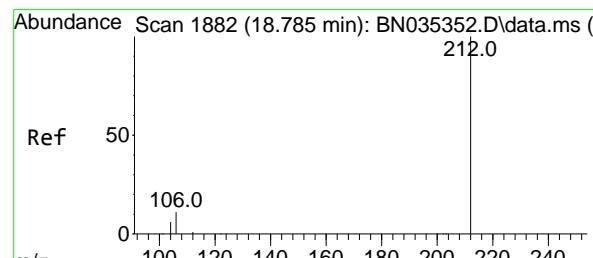
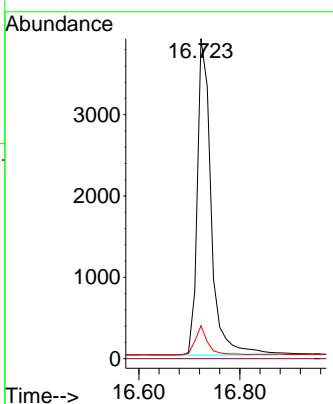
Tgt Ion:188 Resp: 7433

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 4.6 6.8#



#27

Fluoranthene-d10

Concen: 0.375 ng

RT: 18.780 min Scan# 1881

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

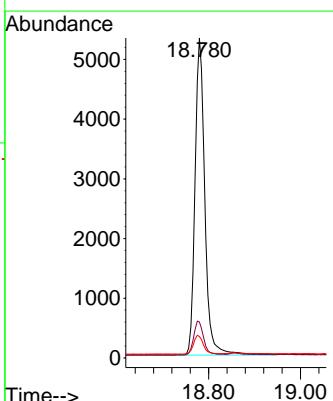
Tgt Ion:212 Resp: 7907

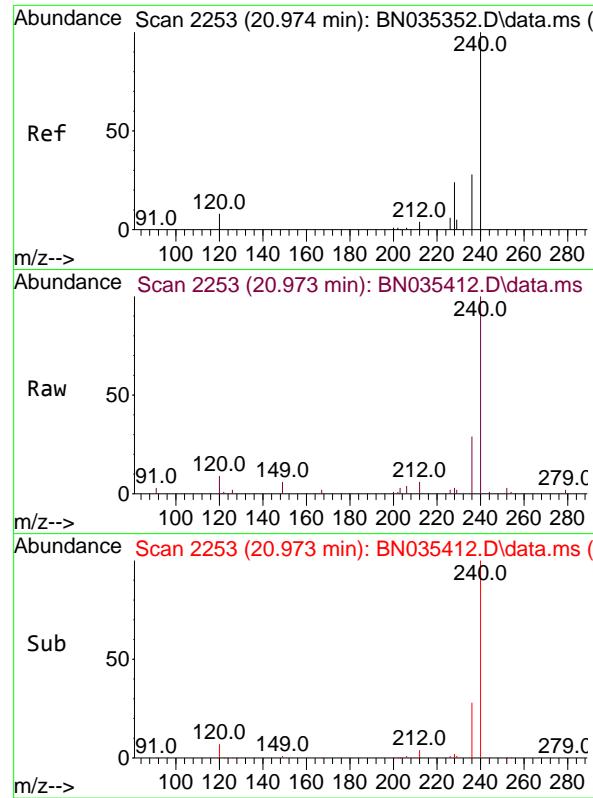
Ion Ratio Lower Upper

212 100

106 10.6 9.2 13.8

104 5.9 5.3 7.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 20.973 min Scan# 2

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :
BNA_N
ClientSampleId :
RW7-SP300A-20241202

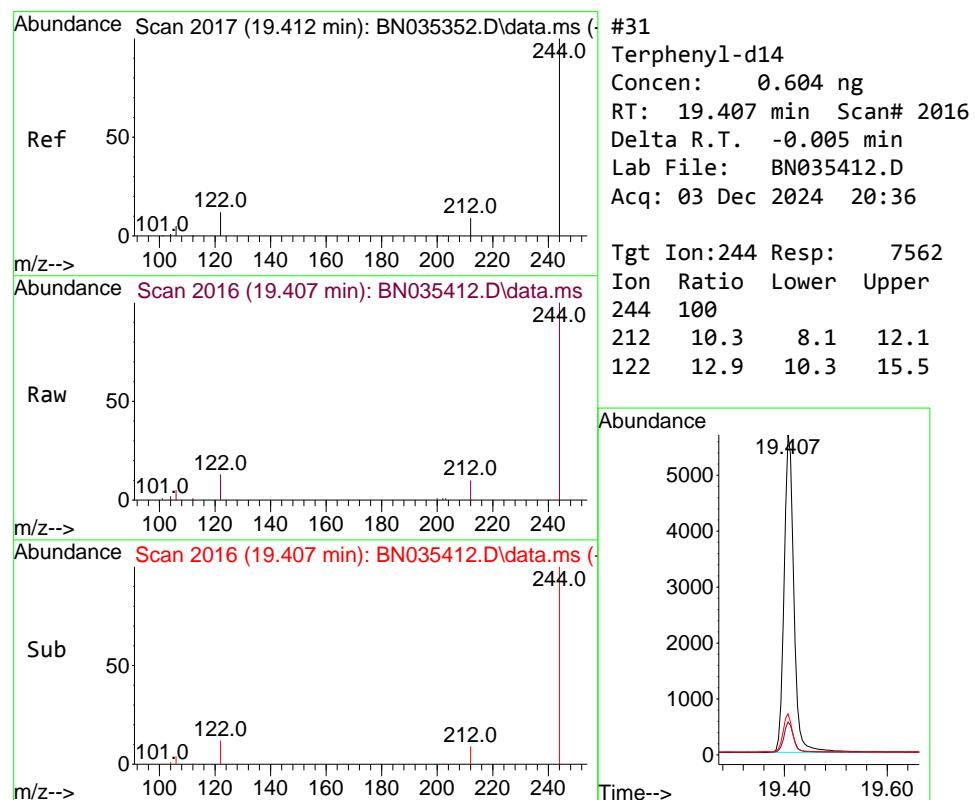
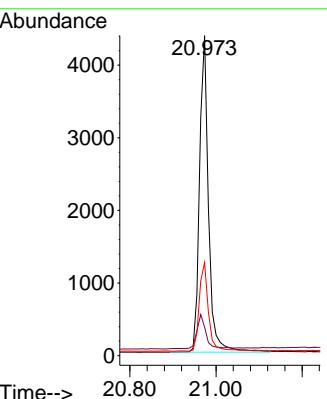
Tgt Ion:240 Resp: 6344

Ion Ratio Lower Upper

240 100

120 8.9 7.9 11.9

236 29.1 22.9 34.3



#31

Terphenyl-d14

Concen: 0.604 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

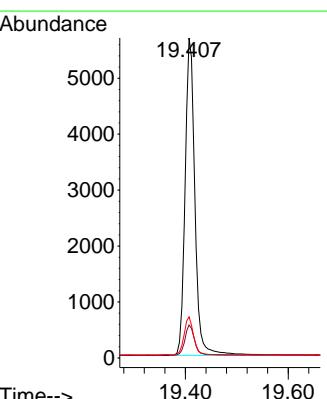
Tgt Ion:244 Resp: 7562

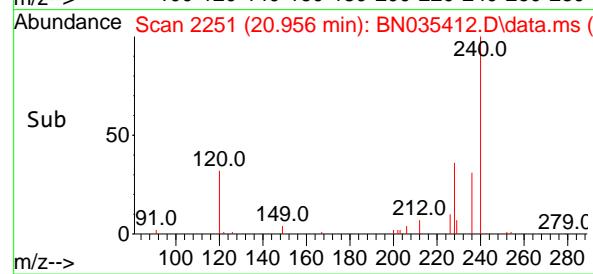
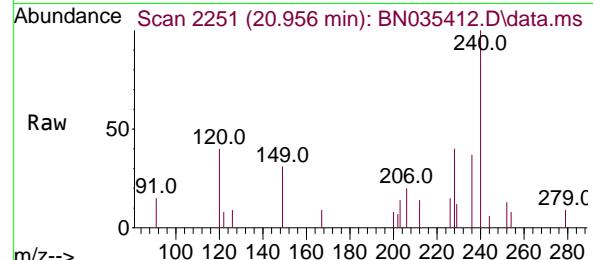
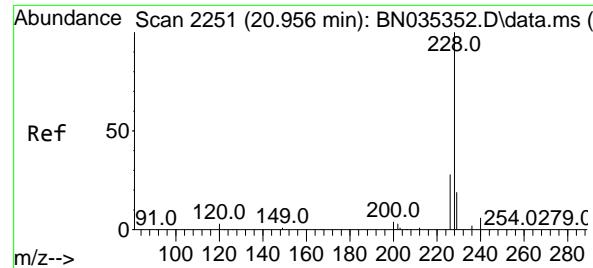
Ion Ratio Lower Upper

244 100

212 10.3 8.1 12.1

122 12.9 10.3 15.5





#32

Benzo(a)anthracene

Concen: 0.021 ng

RT: 20.956 min Scan# 2

Instrument :

BNA_N

Delta R.T. -0.000 min

Lab File: BN035412.D

ClientSampleId :

Acq: 03 Dec 2024 20:36

RW7-SP300A-20241202

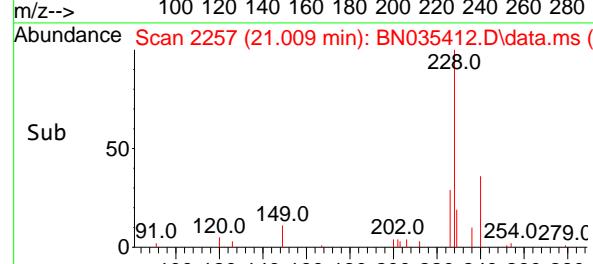
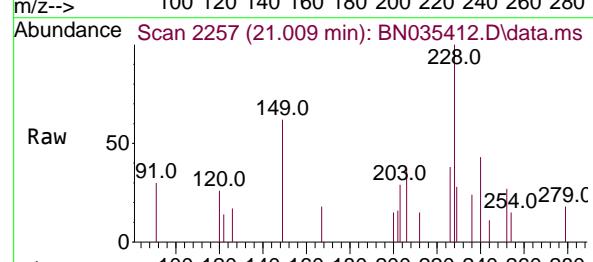
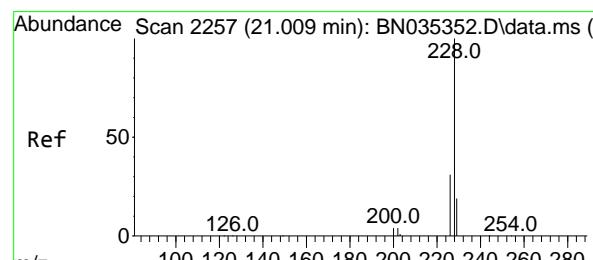
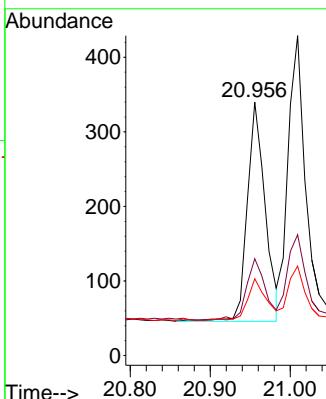
Tgt Ion:228 Resp: 457

Ion Ratio Lower Upper

228 100

226 38.2 22.5 33.7#

229 30.3 15.8 23.8#



#33

Chrysene

Concen: 0.027 ng

RT: 21.009 min Scan# 2257

Delta R.T. -0.000 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

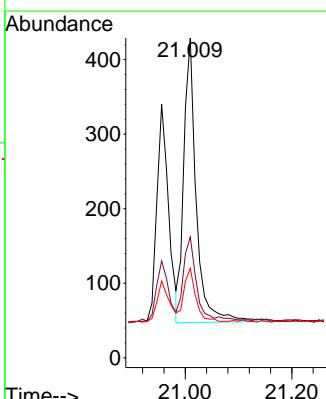
Tgt Ion:228 Resp: 622

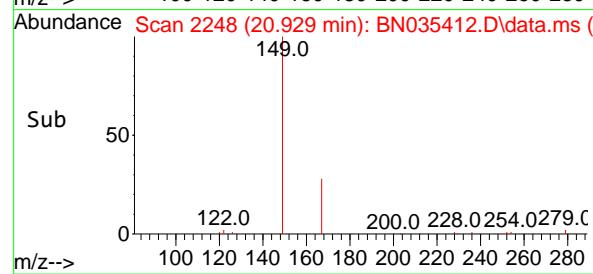
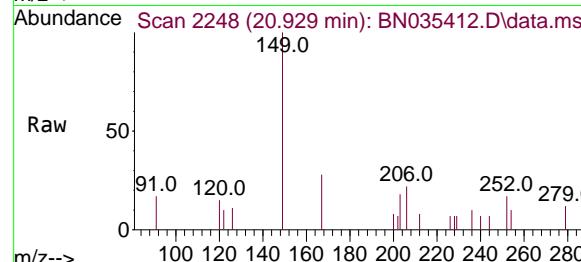
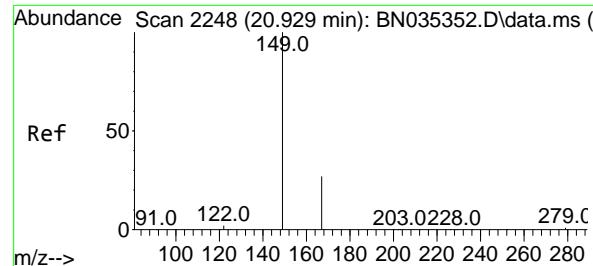
Ion Ratio Lower Upper

228 100

226 37.8 24.6 37.0#

229 28.0 15.9 23.9#

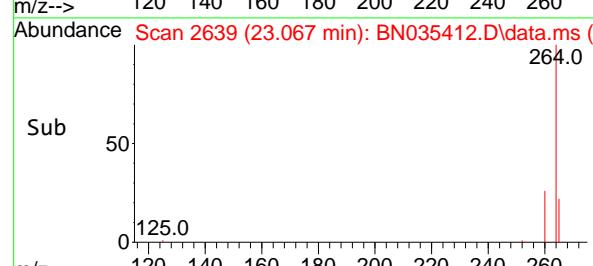
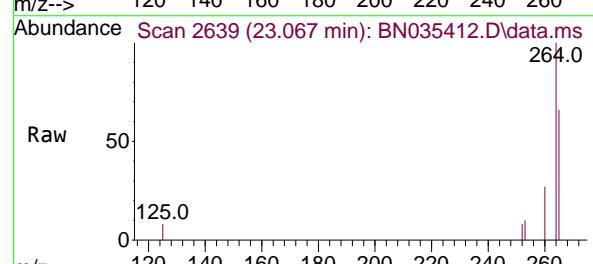
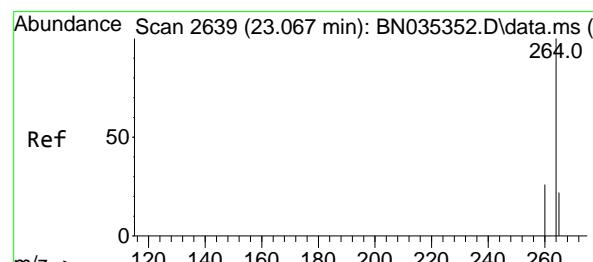
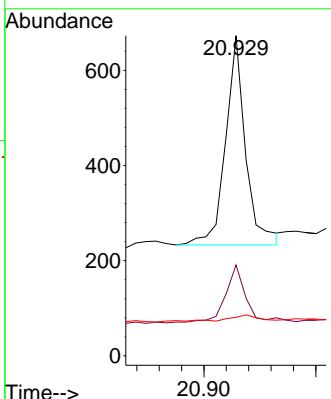




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.063 ng
RT: 20.929 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

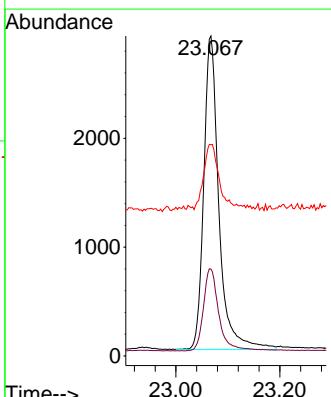
Instrument : BNA_N
ClientSampleId : RW7-SP300A-20241202

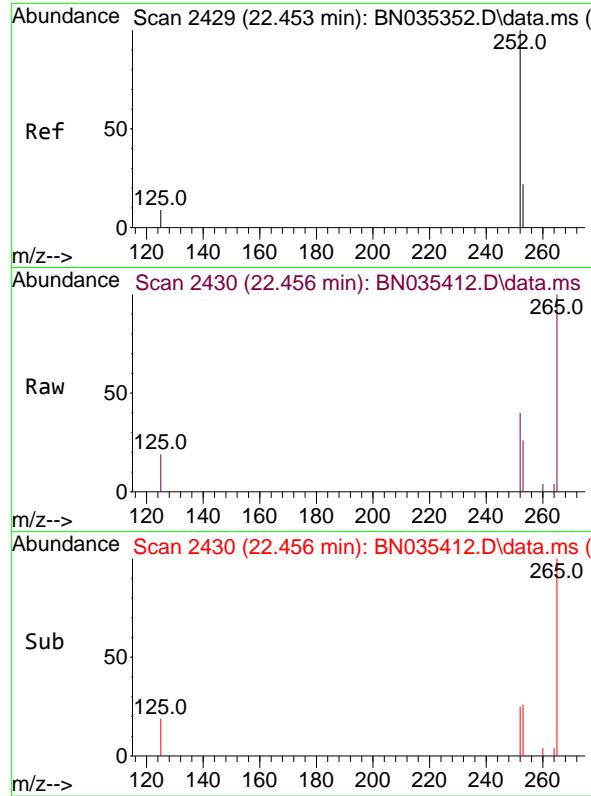
Tgt Ion:149 Resp: 548
Ion Ratio Lower Upper
149 100
167 27.0 22.2 33.4
279 4.2 2.7 4.1#



#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.067 min Scan# 2639
Delta R.T. -0.000 min
Lab File: BN035412.D
Acq: 03 Dec 2024 20:36

Tgt Ion:264 Resp: 5799
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 66.0 40.2 60.4#





#37

Benzo(b)fluoranthene

Concen: 0.028 ng

RT: 22.456 min Scan# 2

Delta R.T. 0.003 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

Instrument :

BNA_N

ClientSampleId :

RW7-SP300A-20241202

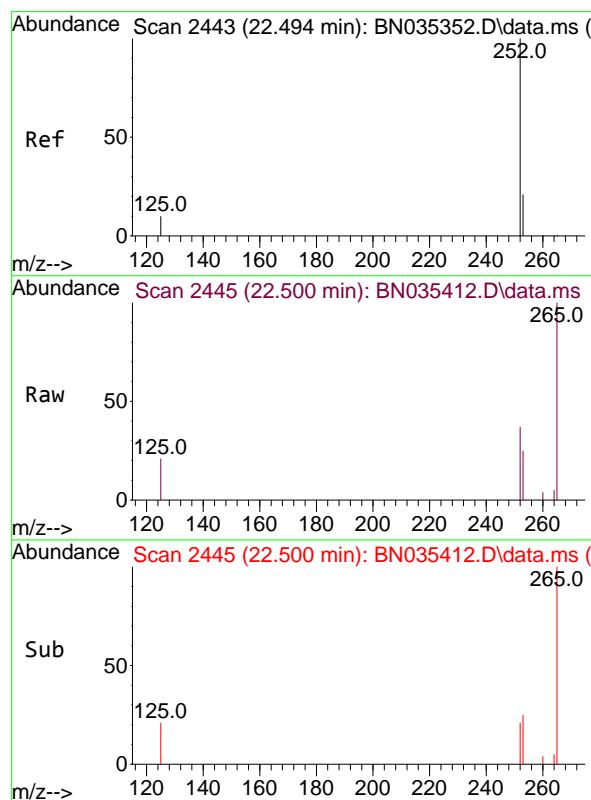
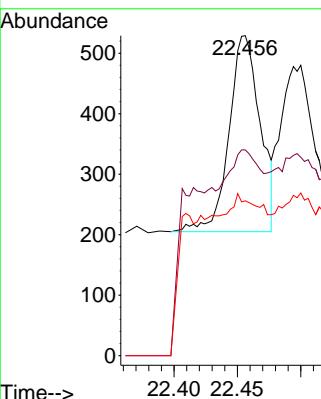
Tgt Ion:252 Resp: 598

Ion Ratio Lower Upper

252 100

253 64.3 19.6 29.4#

125 48.4 9.6 14.4#



#38

Benzo(k)fluoranthene

Concen: 0.023 ng

RT: 22.500 min Scan# 2445

Delta R.T. 0.006 min

Lab File: BN035412.D

Acq: 03 Dec 2024 20:36

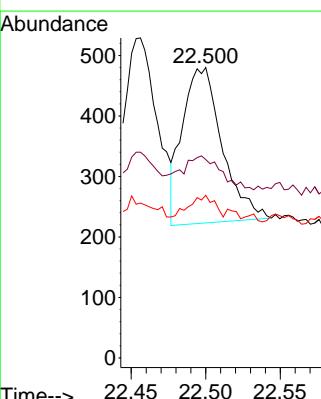
Tgt Ion:252 Resp: 476

Ion Ratio Lower Upper

252 100

253 68.3 19.5 29.3#

125 56.0 10.2 15.4#





CALIBRATION

SUMMARY

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
3)	n-Nitrosodimet...	0.334	0.302	0.326	0.315	0.332	0.310	0.309	0.319
4) S	2-Fluorophenol	1.025	1.112	1.018	0.958	0.998	0.954	0.942	1.001
5) S	Phenol-d6	1.227	1.186	1.193	1.143	1.235	1.215	1.229	1.204
6)	bis(2-Chloroet...	1.035	1.021	0.992	0.993	1.051	0.997	0.991	1.012
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
9)	Naphthalene	1.062	1.029	1.047	1.032	1.096	1.049	1.070	1.055
10)	Hexachlorobuta...	0.245	0.242	0.247	0.241	0.255	0.236	0.238	0.243
11)	SURR2-Methylnaphth...	0.591	0.603	0.619	0.615	0.659	0.639	0.656	0.626
12)	2-Methylnaphth...	0.724	0.716	0.740	0.747	0.795	0.771	0.795	0.755
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
15) S	2-Fluorobiphenyl	1.489	1.491	1.510	1.508	1.566	1.511	1.511	1.512
16)	Acenaphthylene	1.643	1.600	1.595	1.638	1.737	1.763	1.781	1.680
17)	Acenaphthene	1.121	1.084	1.086	1.108	1.145	1.122	1.140	1.115
18)	Fluorene	1.589	1.549	1.543	1.600	1.652	1.614	1.625	1.596
19) I	Phenanthrene-d10	-----	-----	ISTD-----					
20)	4,6-Dinitro-2....	0.038	0.031	0.036	0.041	0.051	0.039	0.039	19.30
21)	4-Bromophenyl....	0.226	0.218	0.226	0.233	0.249	0.242	0.244	0.234
22)	Hexachlorobenzene	0.265	0.266	0.273	0.276	0.288	0.278	0.277	0.275
23)	Atrazine	0.155	0.155	0.154	0.156	0.175	0.179	0.191	0.167
24)	Pentachlorophenol	0.140	0.090	0.095	0.103	0.121	0.136	0.150	0.120
25)	Phenanthrene	1.092	1.046	1.067	1.092	1.148	1.121	1.125	1.099
26)	Anthracene	0.964	0.923	0.940	0.973	1.050	1.042	1.064	0.994
27)	SURRFluoranthene-d10	1.203	1.086	1.077	1.105	1.165	1.138	1.164	1.134
28)	Fluoranthene	1.538	1.396	1.416	1.456	1.539	1.497	1.526	1.481
29) I	Chrysene-d12	-----	-----	ISTD-----					
30)	Pyrene	1.583	1.445	1.475	1.443	1.519	1.440	1.431	1.477
31) S	Terphenyl-d14	0.832	0.777	0.791	0.771	0.812	0.772	0.769	0.789
32)	Benzo(a)anthra...	1.431	1.343	1.355	1.375	1.451	1.411	1.429	1.399
33)	Chrysene	1.463	1.452	1.441	1.415	1.487	1.422	1.420	1.443
34)	Bis(2-ethylhex...	0.710	0.558	0.516	0.505	0.520	0.516	0.544	0.553
35) I	Perylene-d12	-----	-----	ISTD-----					

Response Factor Report BNA_N

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

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.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

Manual Integrations
APPROVED

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

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

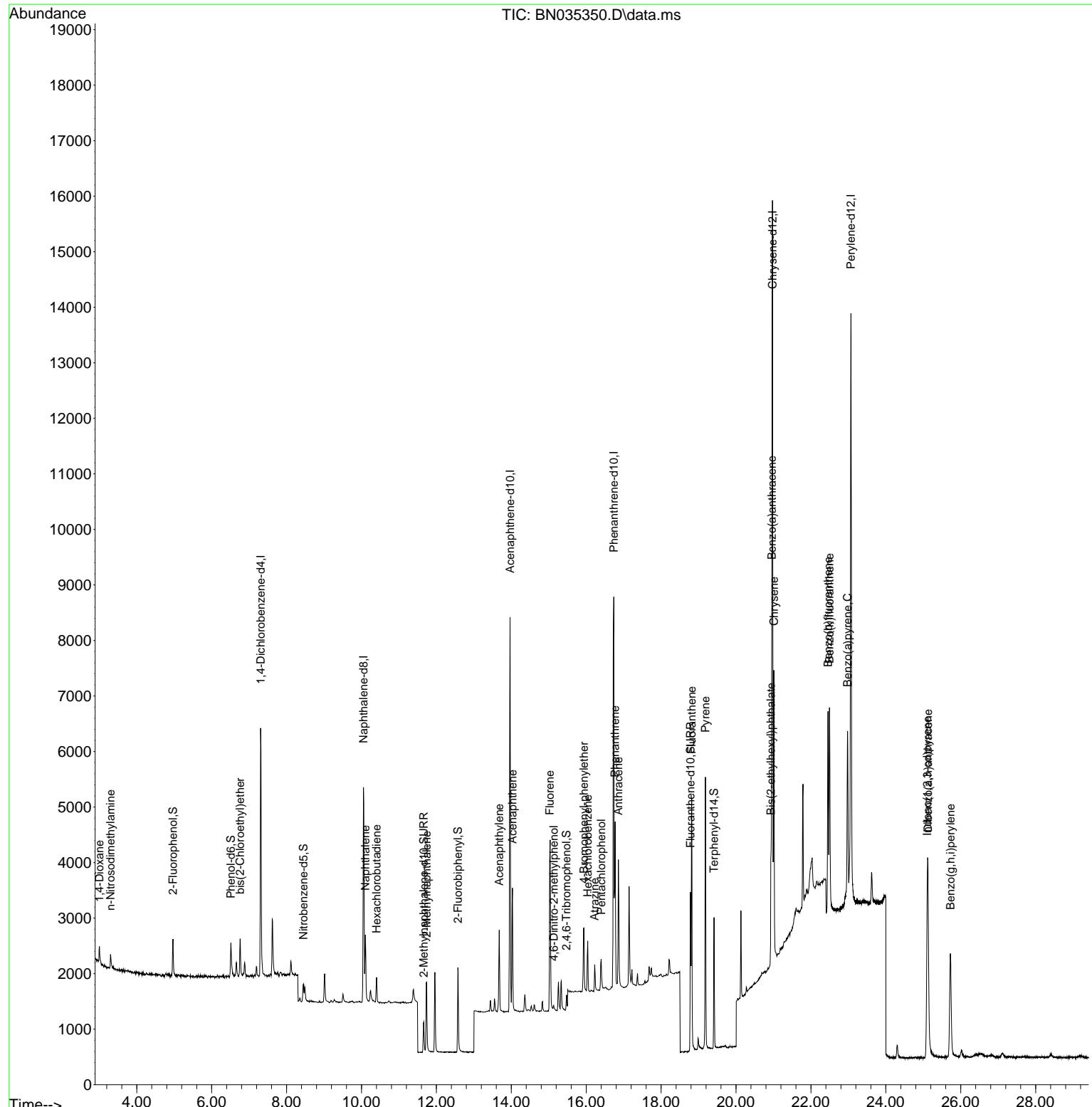
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Acq On : 27 Nov 2024 15:34
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

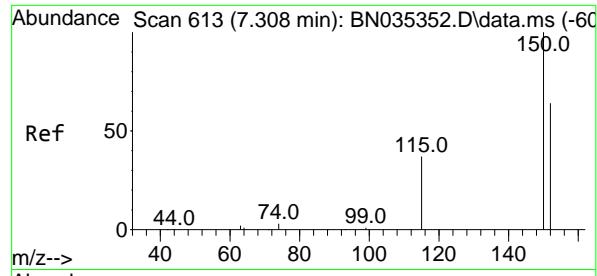
Quant Time: Nov 27 22:52:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 22:48:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.1

Manual Integrations APPROVED

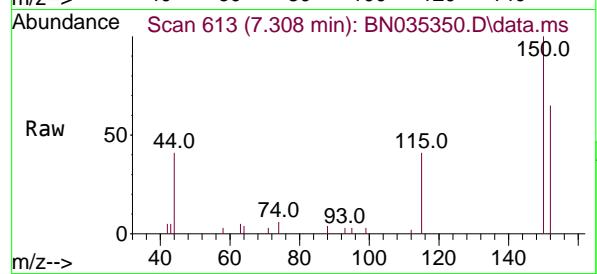
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





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

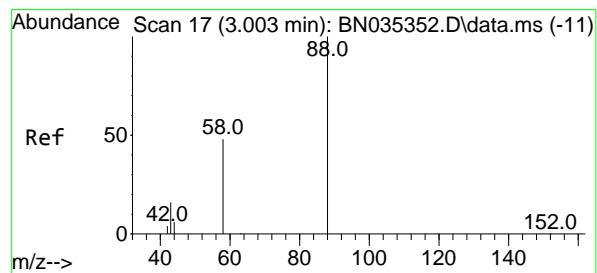
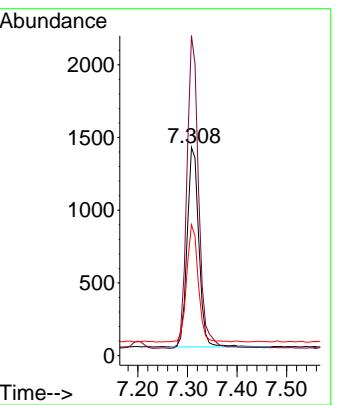
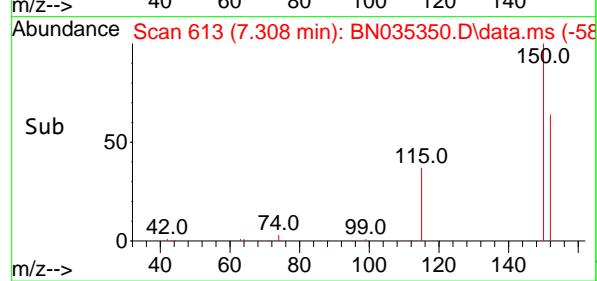
Instrument : BNA_N
ClientSampleId : SSTDICCO.1



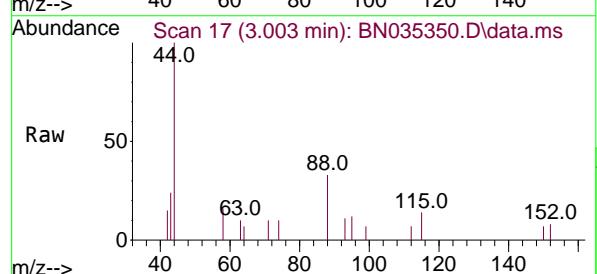
Tgt Ion:152 Resp: 223
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

Manual Integrations APPROVED

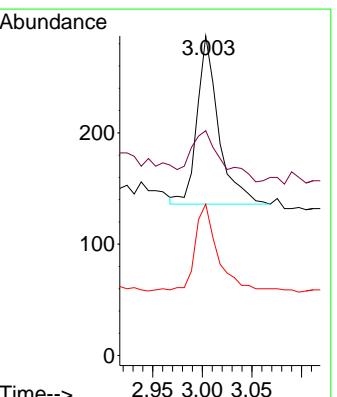
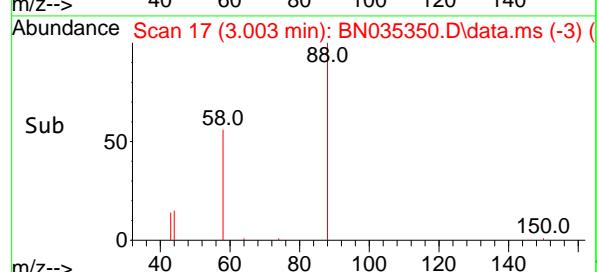
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

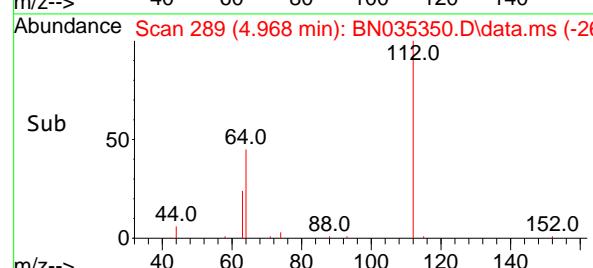
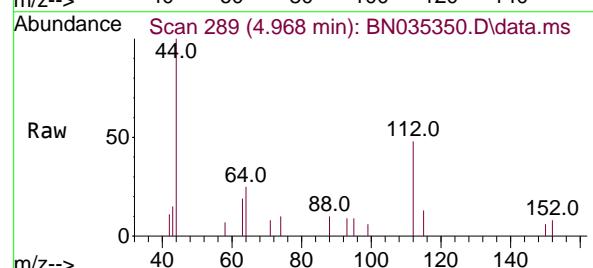
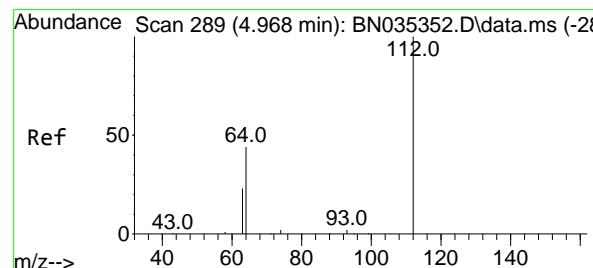
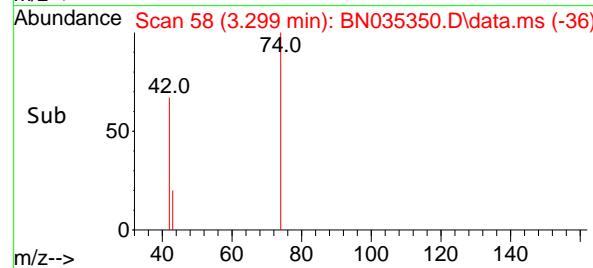
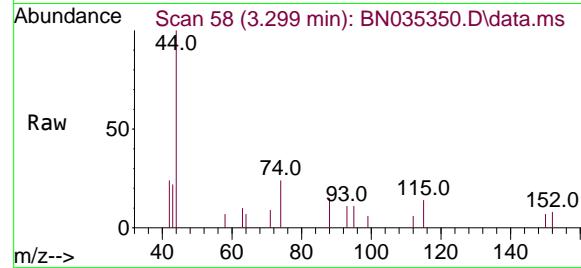
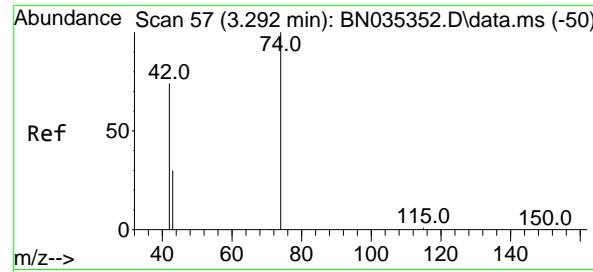


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7





#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

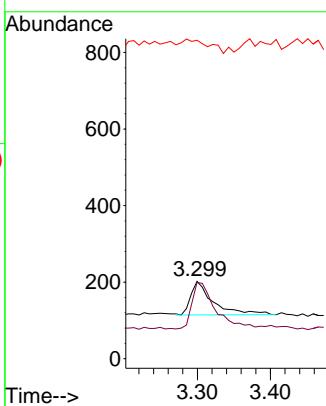
ClientSampleId :

SSTDICCO.1

**Manual Integrations
APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#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

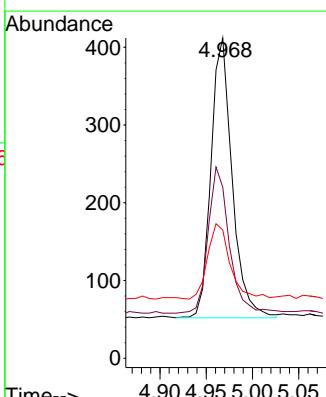
Tgt Ion:112 Resp: 573

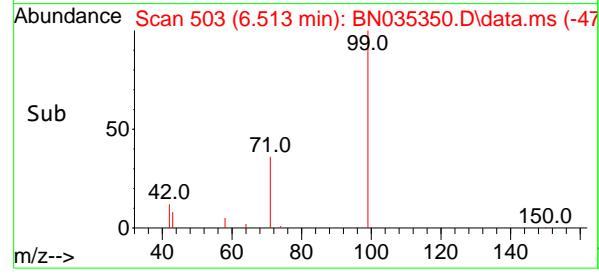
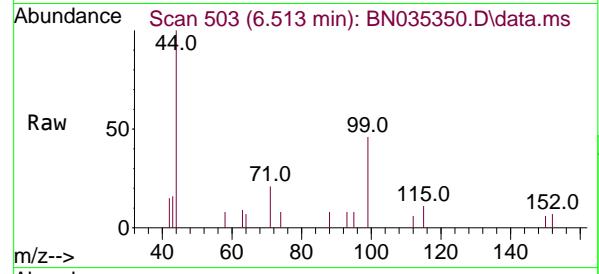
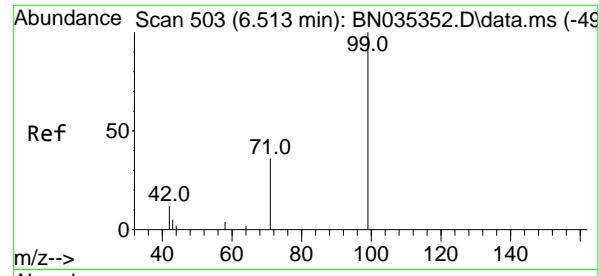
Ion Ratio Lower Upper

112 100

64 52.0 39.8 59.8

63 28.8 21.0 31.6



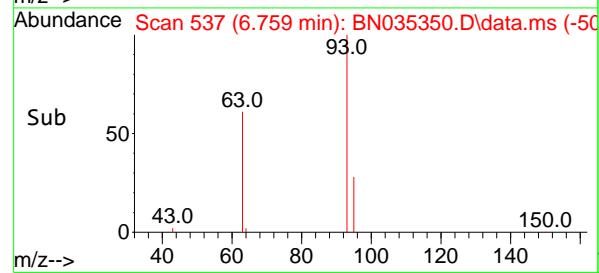
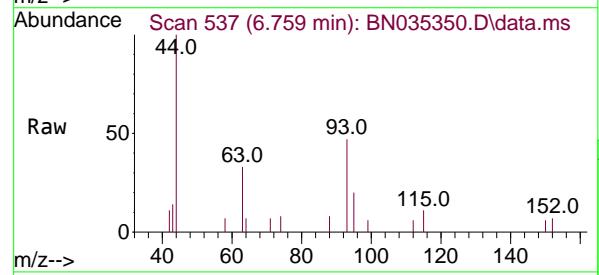
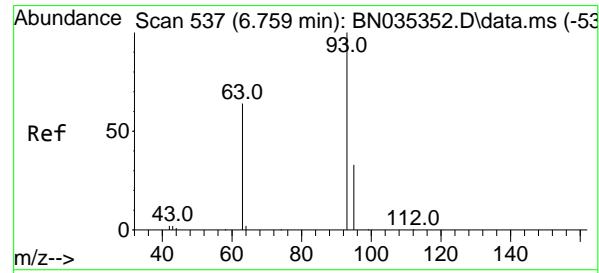


#5
 Phenol-d6
 Concen: 0.096 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

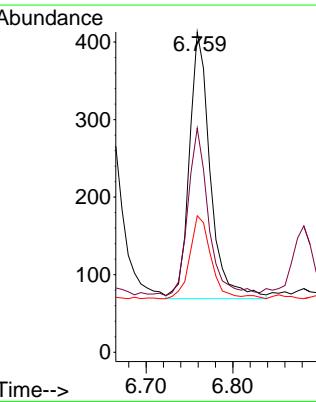
Manual Integrations
APPROVED

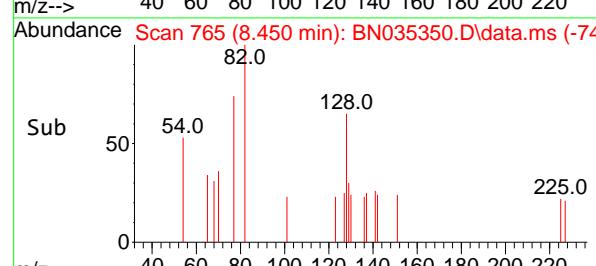
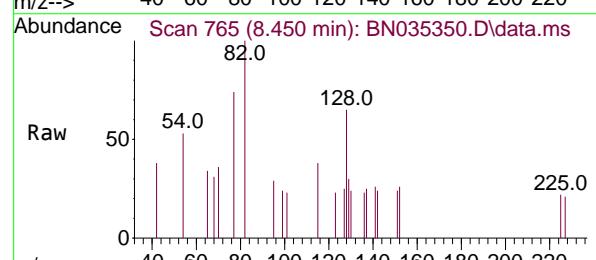
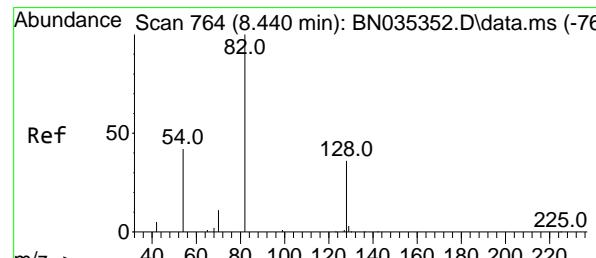
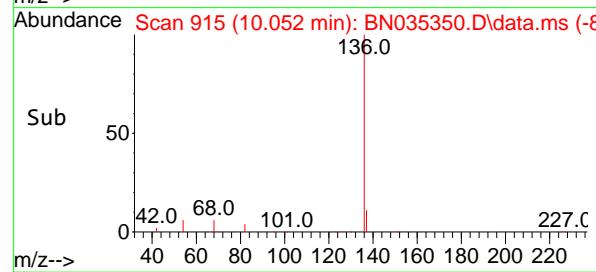
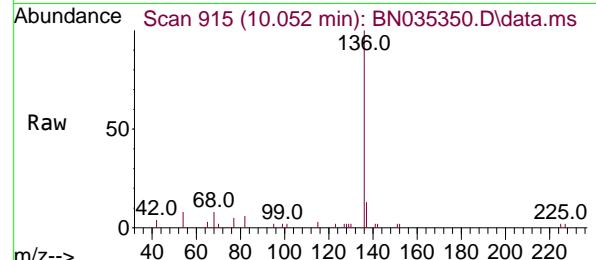
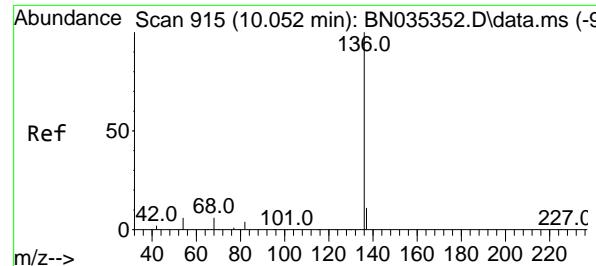
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion: 93 Resp: 579
 Ion Ratio Lower Upper
 93 100
 63 61.7 50.4 75.6
 95 31.3 25.7 38.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.052 min Scan# 9

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICCO.1

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024

Tgt Ion:136 Resp: 575:

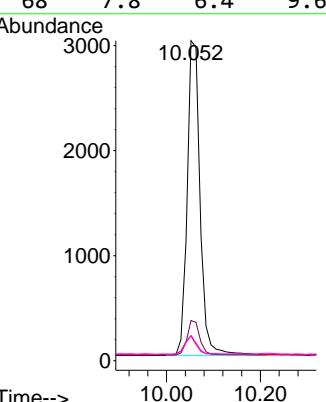
Ion Ratio Lower Upper

136 100

137 12.6 10.2 15.2

54 7.7 6.1 9.1

68 7.8 6.4 9.6



#8

Nitrobenzene-d5

Concen: 0.065 ng m

RT: 8.450 min Scan# 765

Delta R.T. 0.011 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

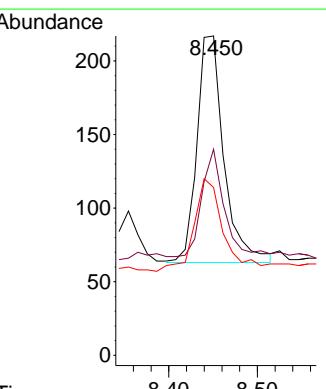
Tgt Ion: 82 Resp: 327

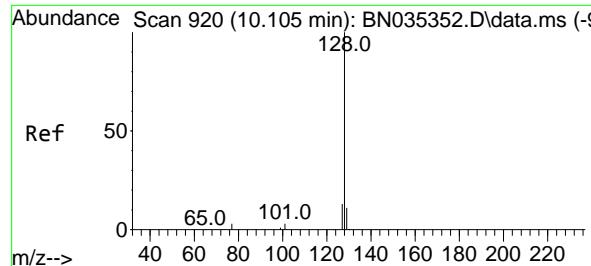
Ion Ratio Lower Upper

82 100

128 64.5 33.4 50.0#

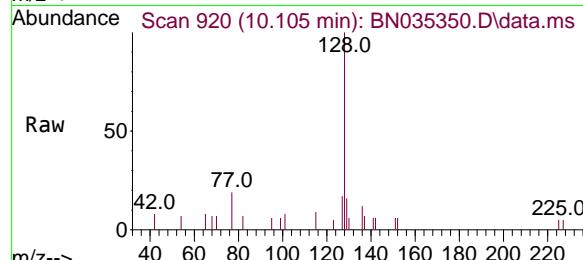
54 52.5 36.7 55.1





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

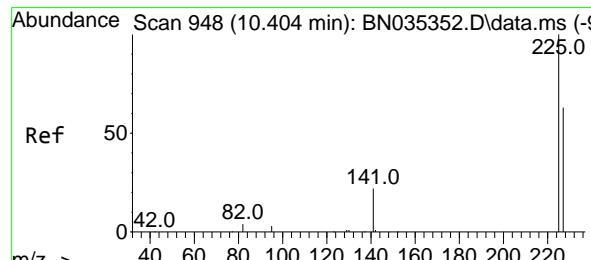
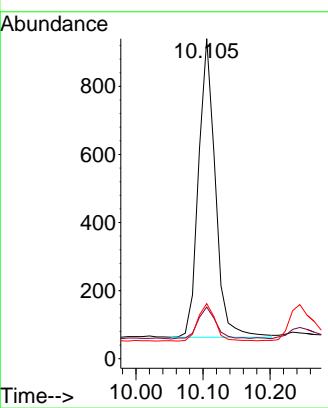
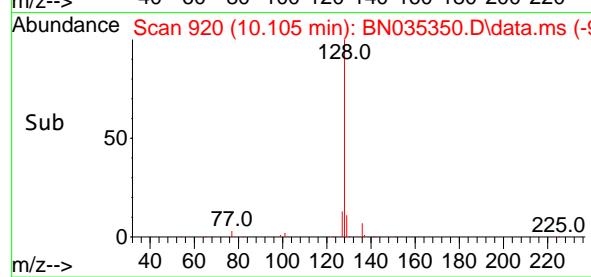
Instrument : BNA_N
ClientSampleId : SSTDICCO.1



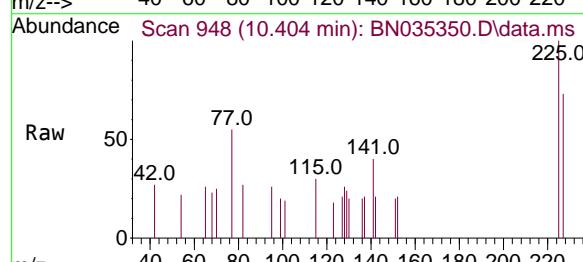
Tgt Ion:128 Resp: 152
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6
127 17.2 11.4 17.2

Manual Integrations
APPROVED

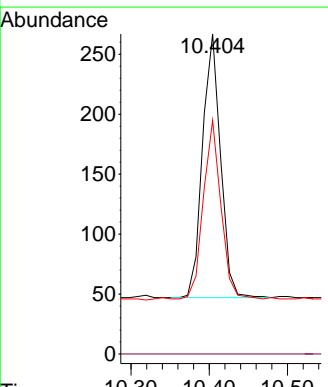
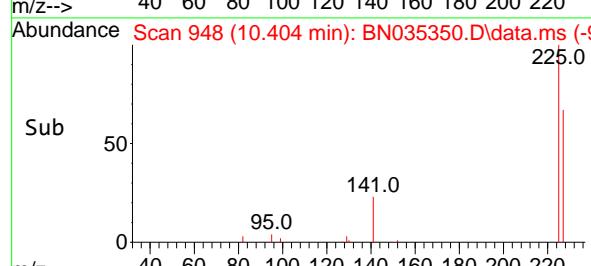
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

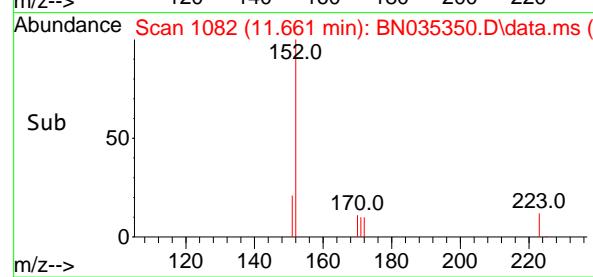
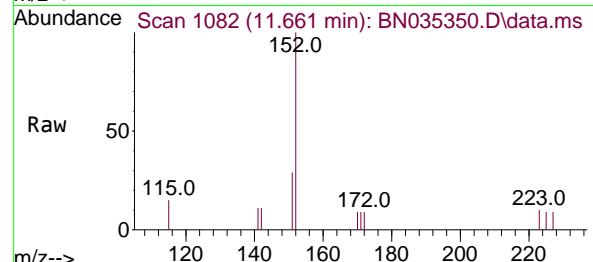
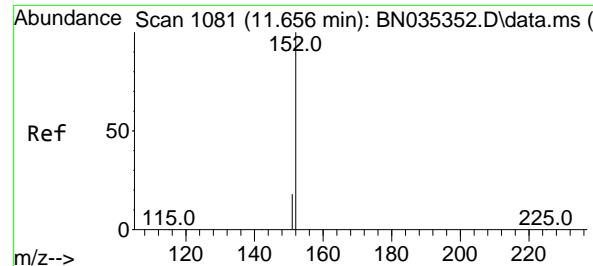


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9



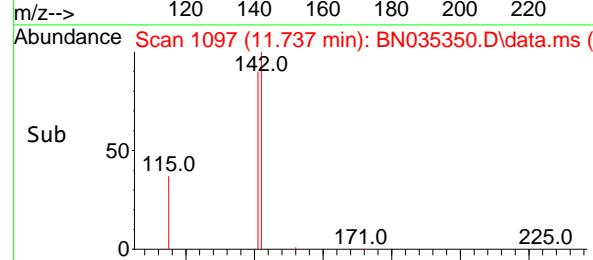
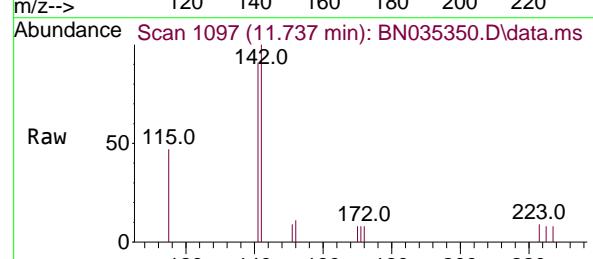
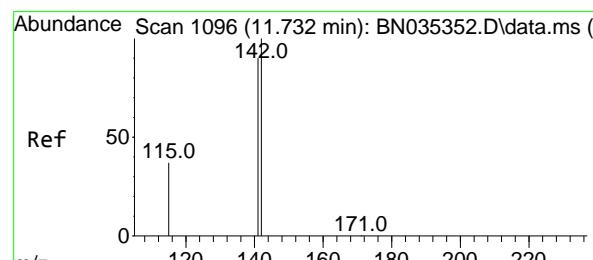
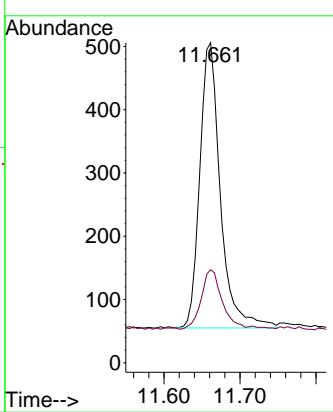


#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.1

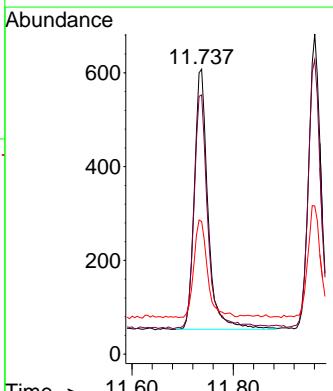
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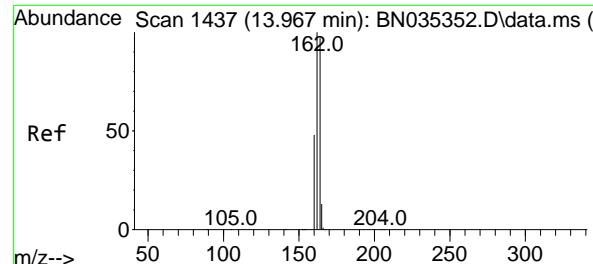
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



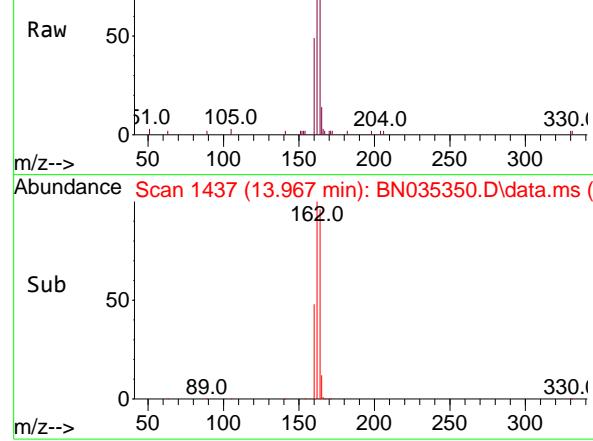
#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0

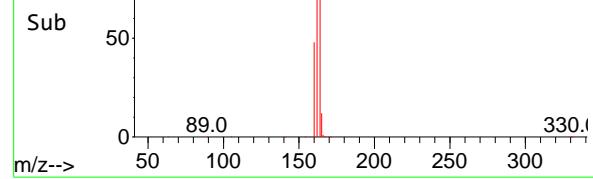




Abundance Scan 1437 (13.967 min): BN035350.D\data.ms



Abundance Scan 1437 (13.967 min): BN035350.D\data.ms (-)



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

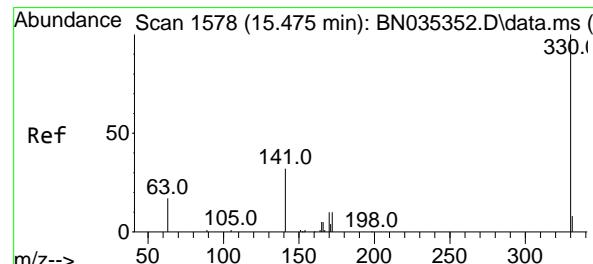
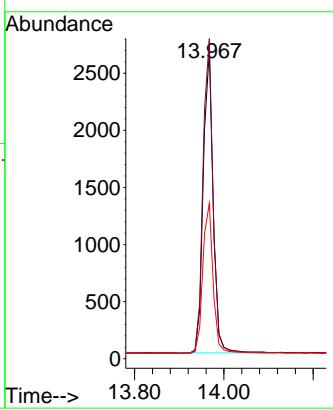
ClientSampleId :

SSTDICCO.1

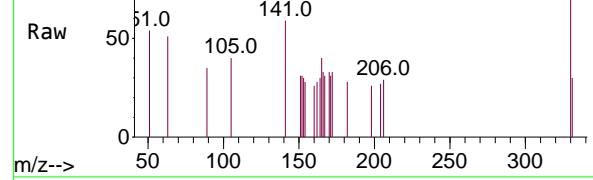
**Manual Integrations
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Reviewed By :Yogesh Patel 11/29/2024

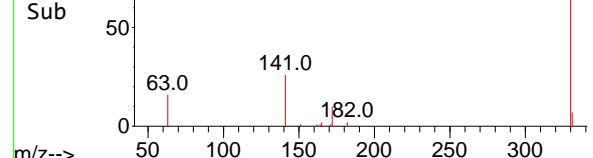
Supervised By :mohammad ahmed 12/03/2024



Abundance Scan 1578 (15.475 min): BN035350.D\data.ms



Abundance Scan 1578 (15.475 min): BN035350.D\data.ms (-)



#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

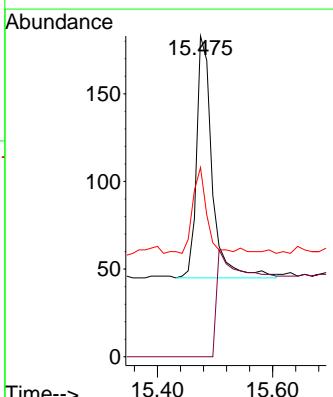
Tgt Ion:330 Resp: 278

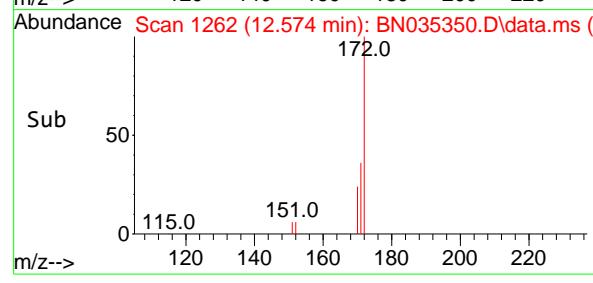
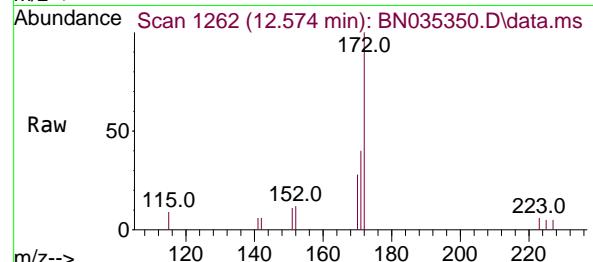
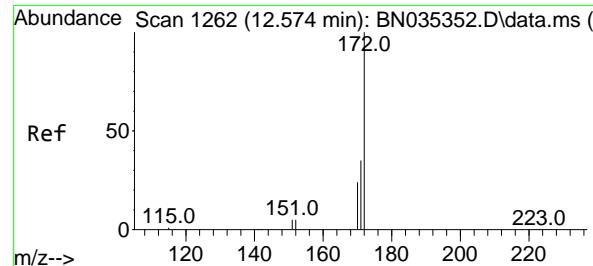
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 29.1 26.6 40.0



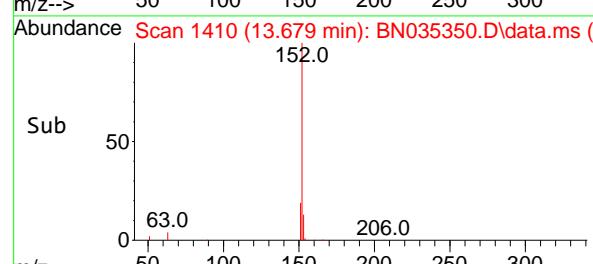
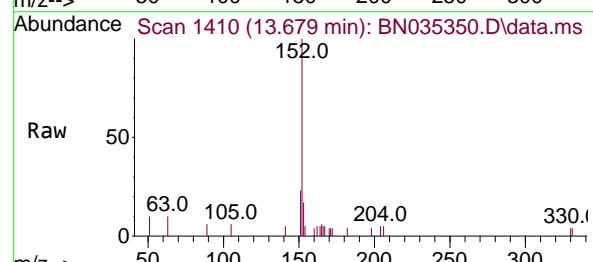
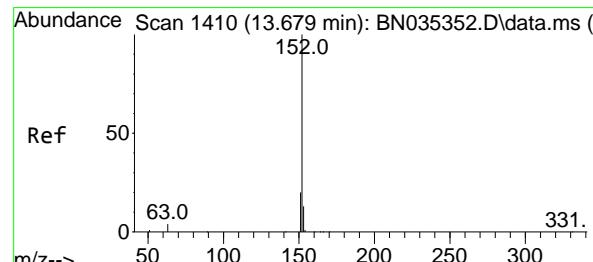
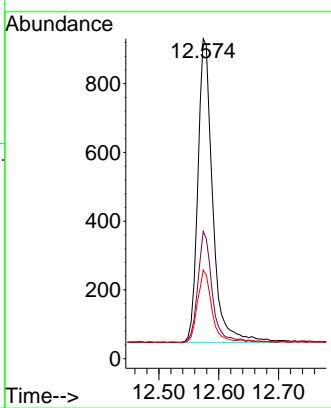


#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.1

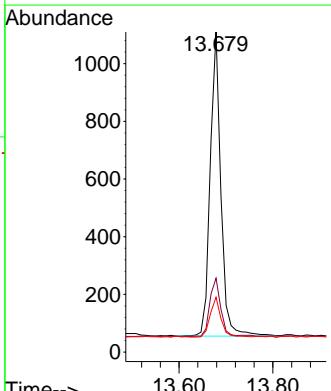
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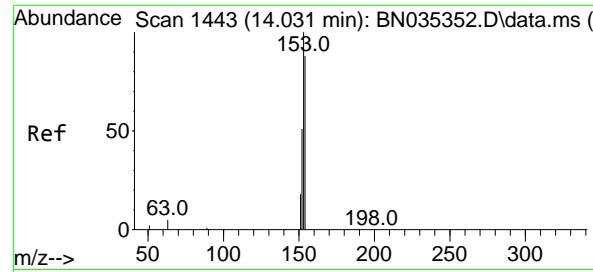
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



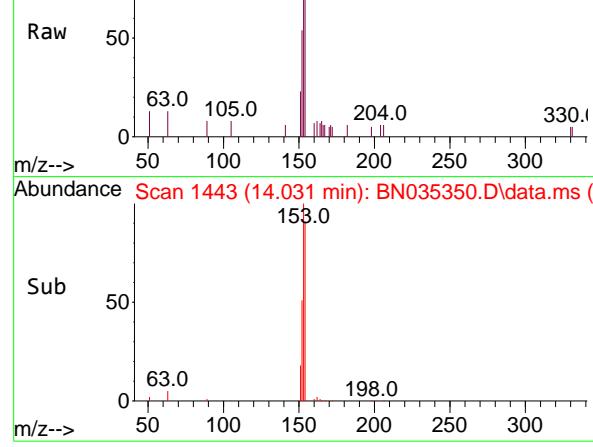
#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

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





Abundance Scan 1443 (14.031 min): BN035350.D\data.ms (-)



#17

Acenaphthene

Concen: 0.100 ng

RT: 14.031 min Scan# 1443

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

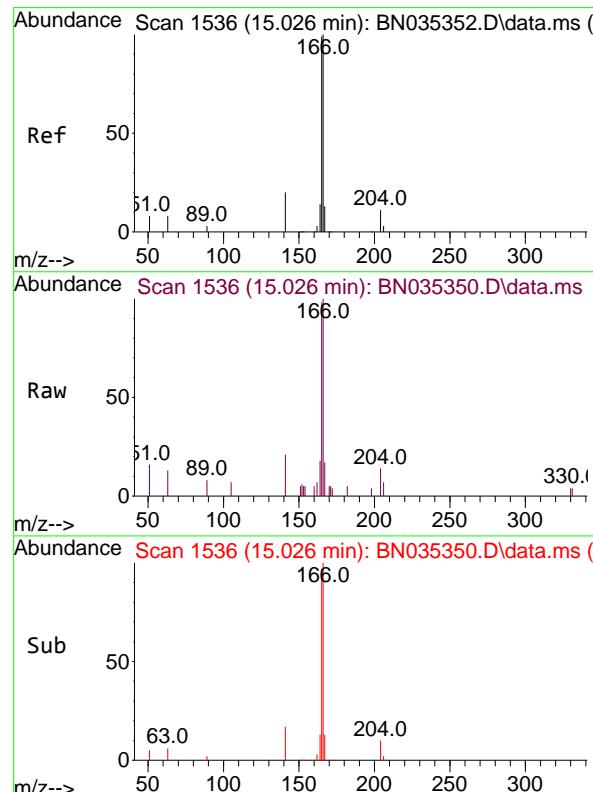
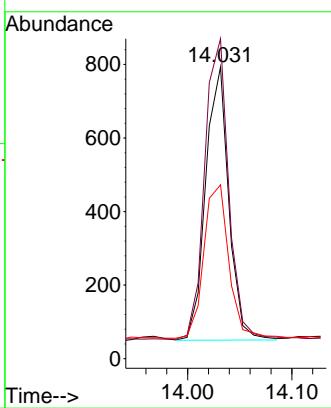
ClientSampleId :

SSTDICCO.1

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#18

Fluorene

Concen: 0.096 ng

RT: 15.026 min Scan# 1536

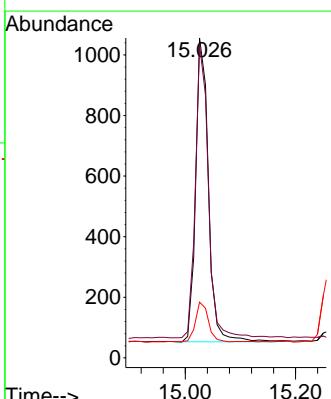
Delta R.T. 0.000 min

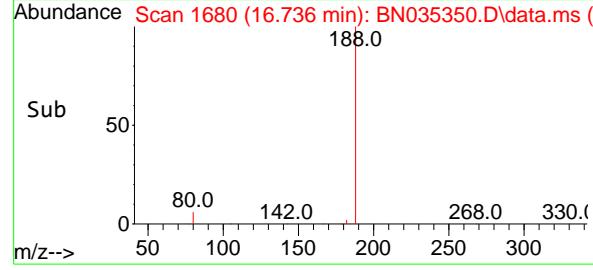
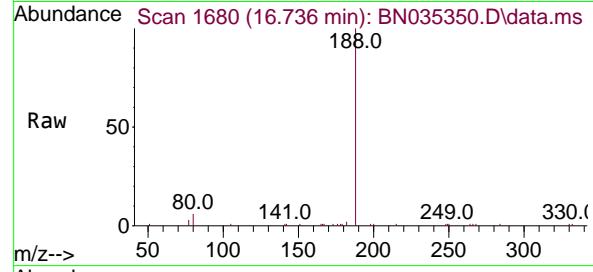
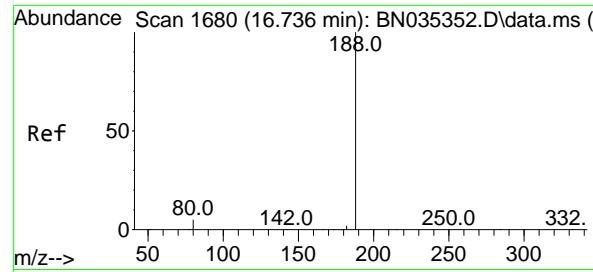
Lab File: BN035350.D

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

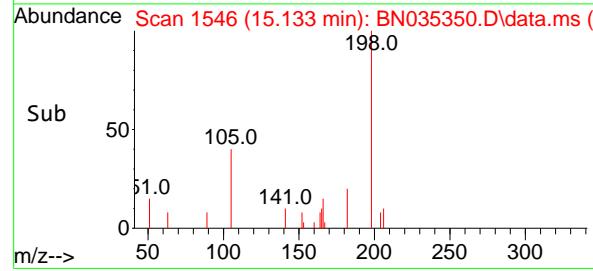
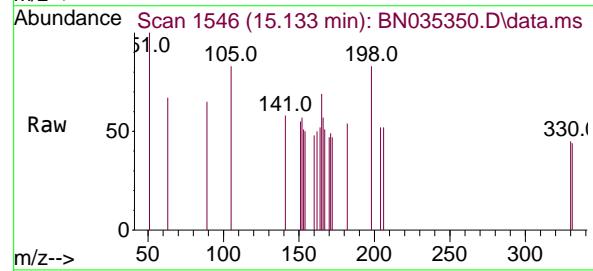
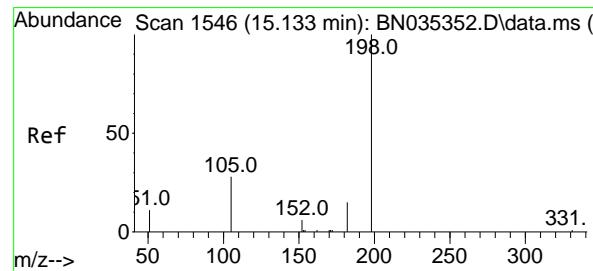
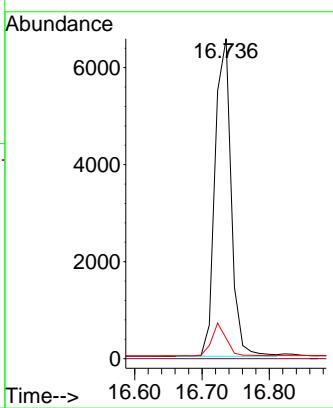
Instrument :

BNA_N

ClientSampleId :

SSTDICCO.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

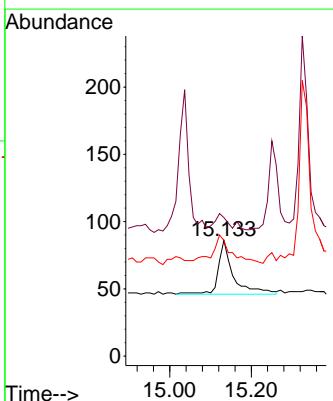
Tgt Ion:198 Resp: 103

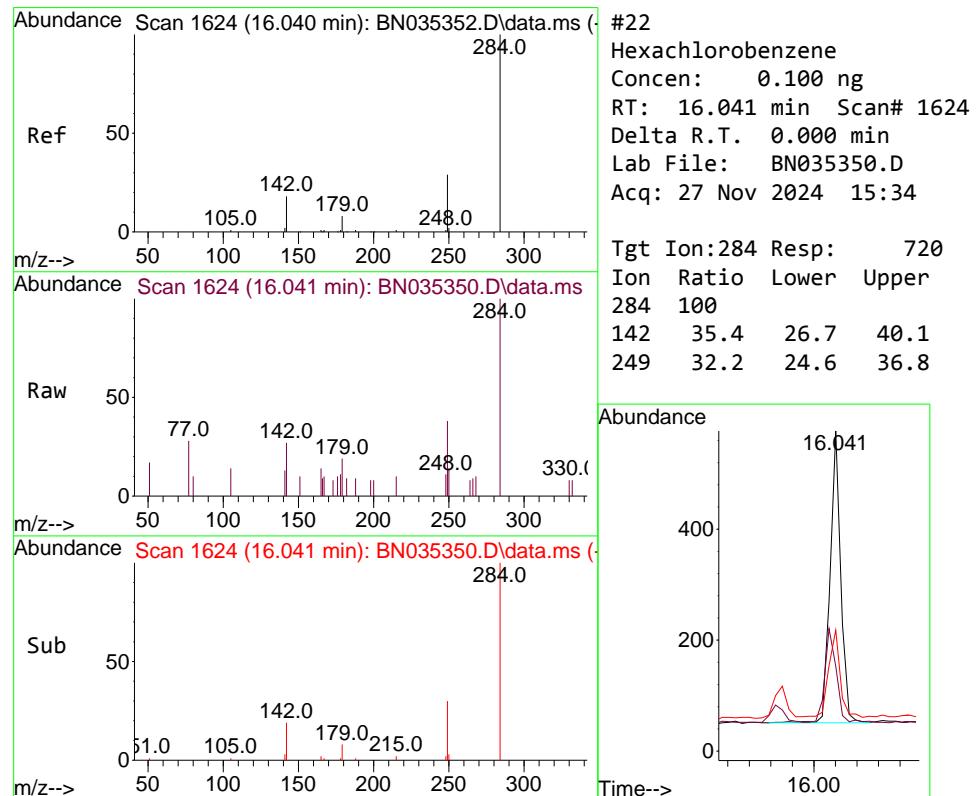
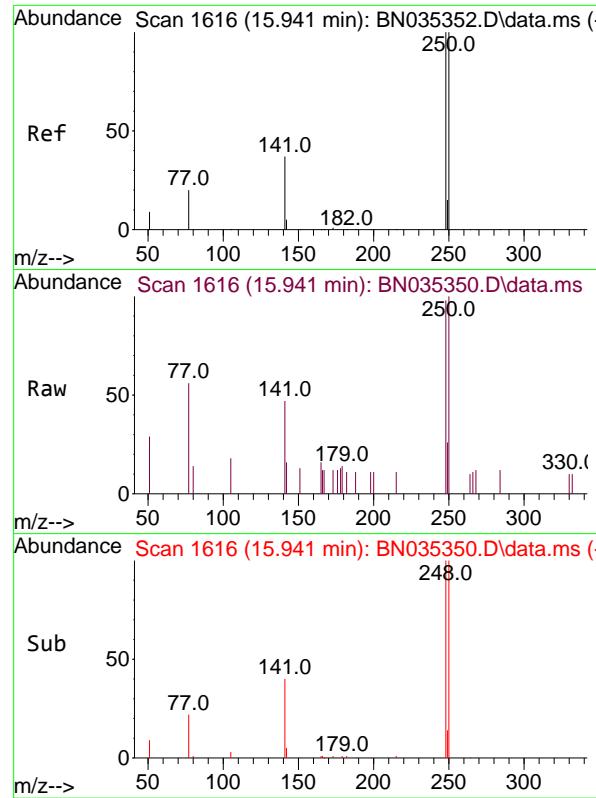
Ion Ratio Lower Upper

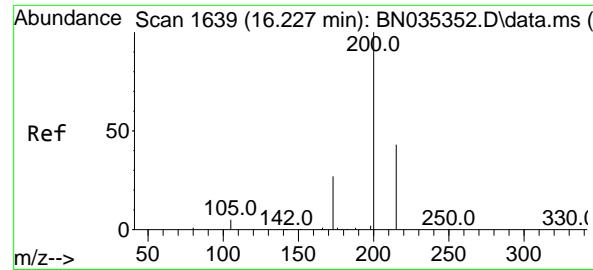
198 100

51 119.8 46.5 69.7#

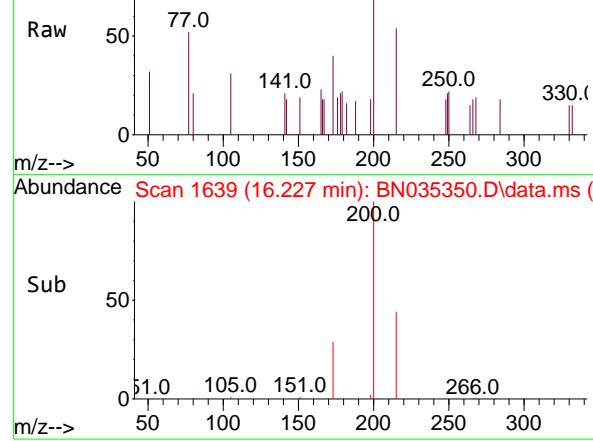
105 100.0 45.3 67.9#



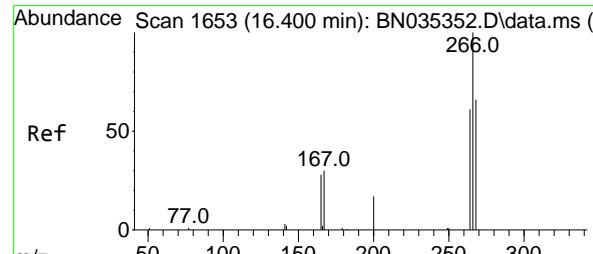
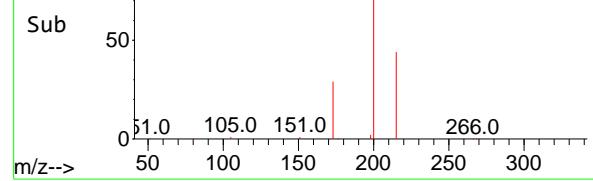




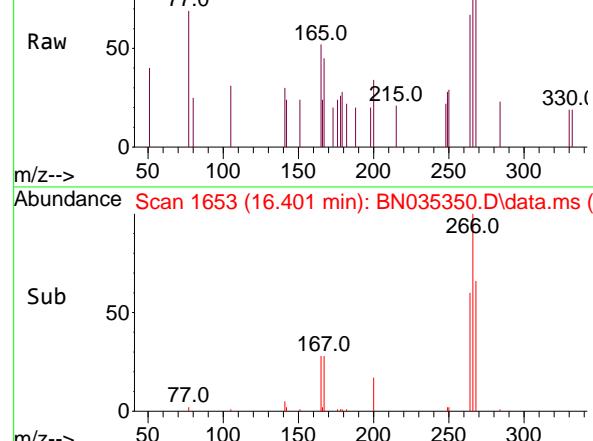
Abundance Scan 1639 (16.227 min): BN035350.D\data.ms



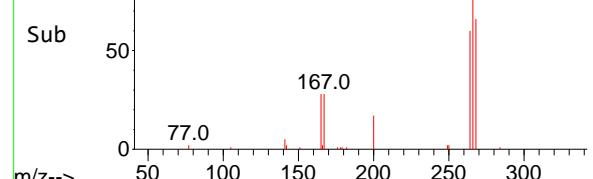
Abundance Scan 1639 (16.227 min): BN035350.D\data.ms (-)



Abundance Scan 1653 (16.401 min): BN035350.D\data.ms



Abundance Scan 1653 (16.401 min): BN035350.D\data.ms (-)



#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 :

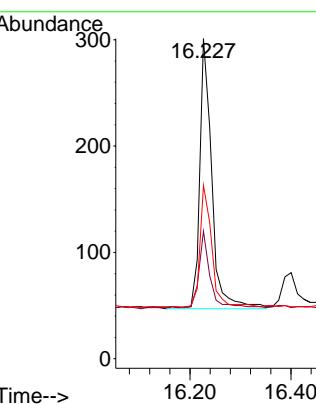
BNA_N

ClientSampleId :

SSTDICCO.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

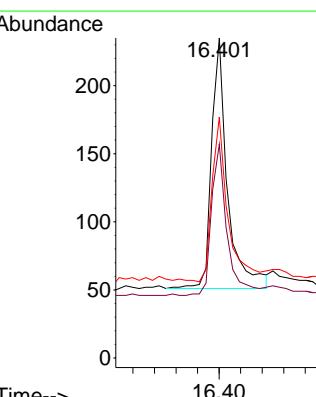
Tgt Ion:266 Resp: 381

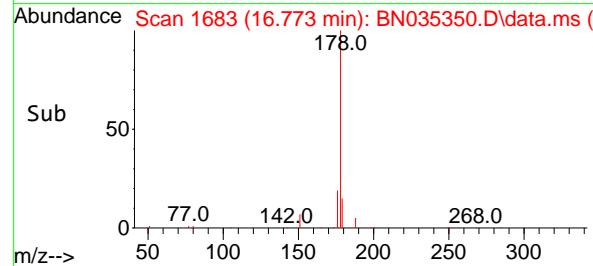
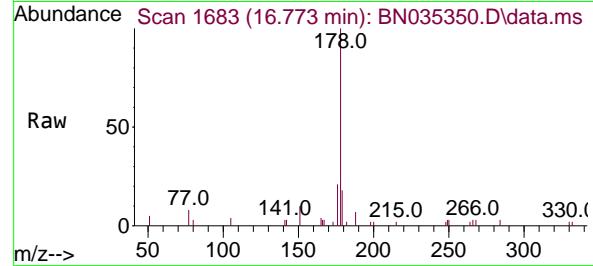
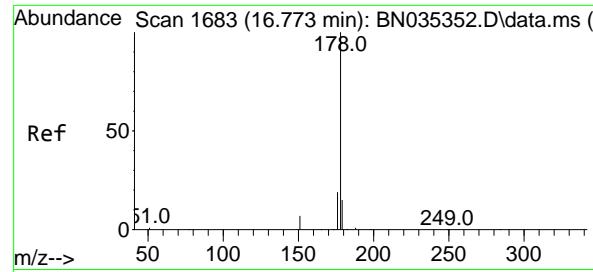
Ion Ratio Lower Upper

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

Instrument :

BNA_N

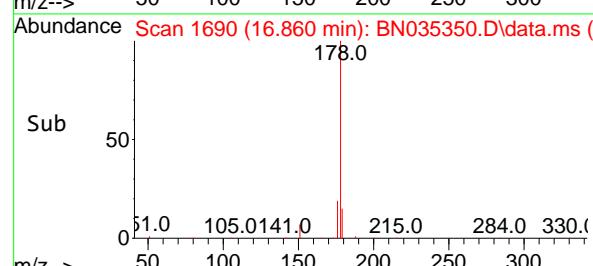
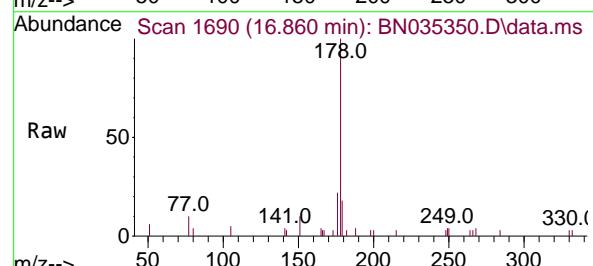
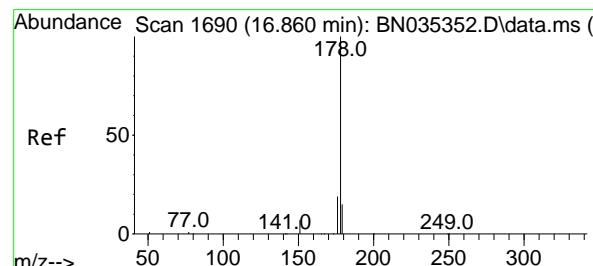
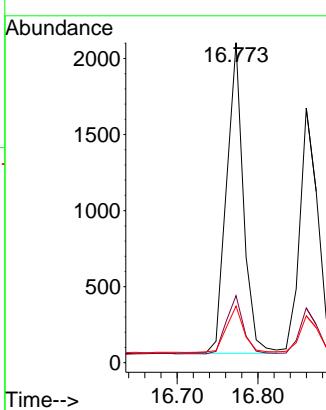
ClientSampleId :

SSTDICCO.1

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#26

Anthracene

Concen: 0.100 ng

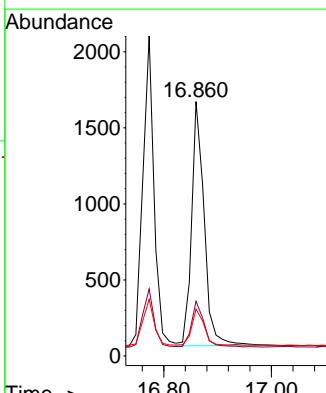
RT: 16.860 min Scan# 1690

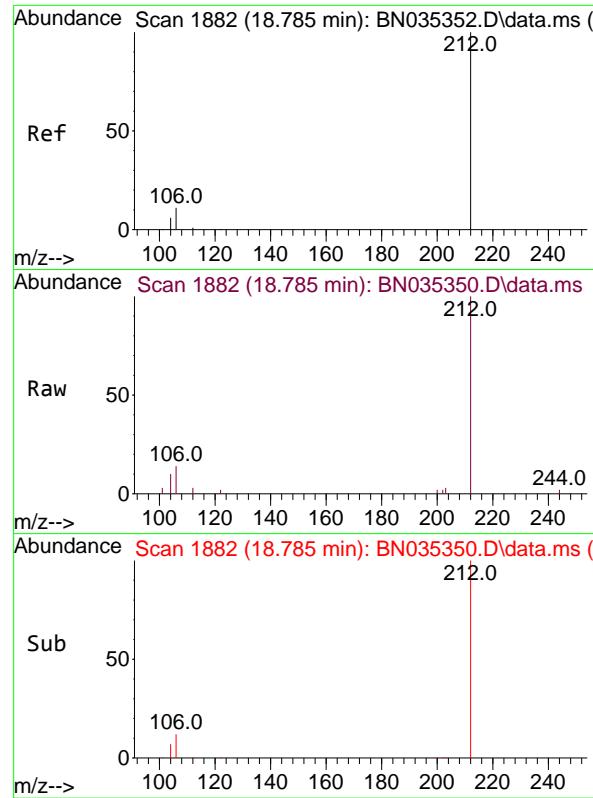
Delta R.T. 0.000 min

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



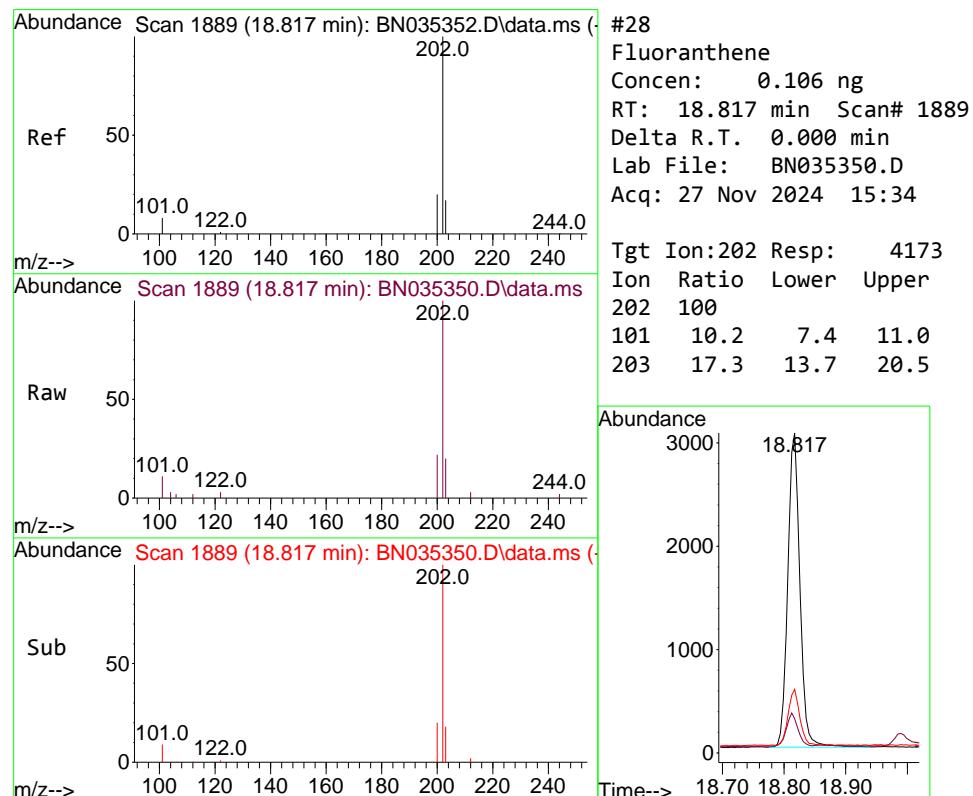
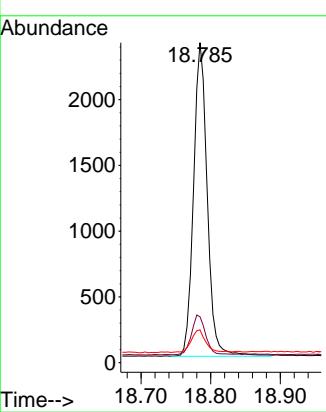


#27
 Fluoranthene-d10
 Concen: 0.098 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

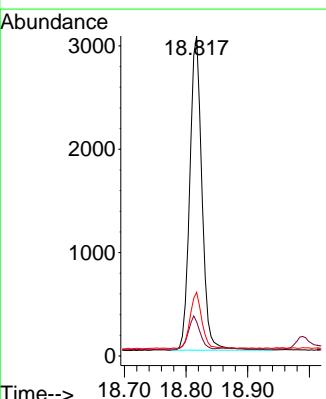
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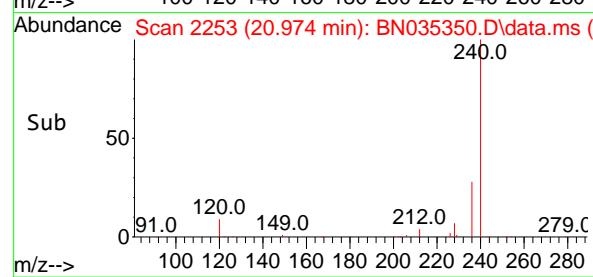
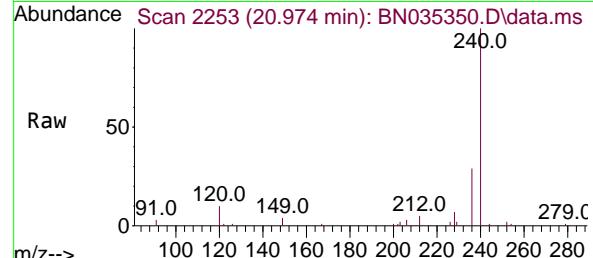
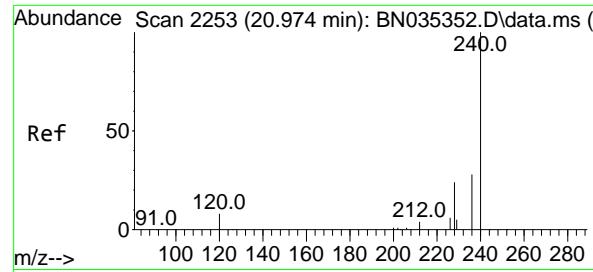
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



#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# 21

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

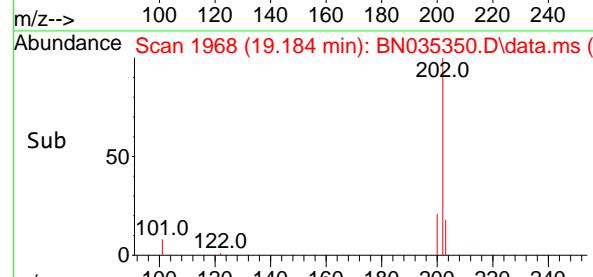
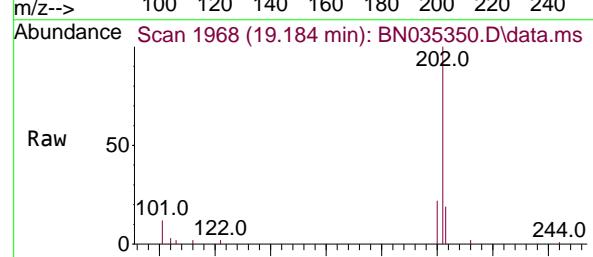
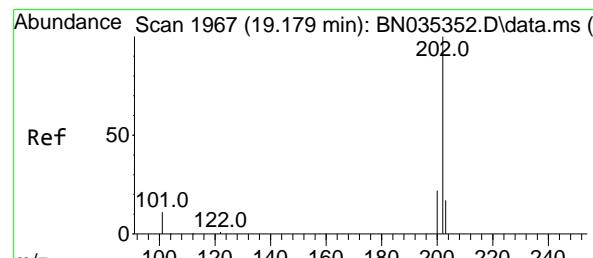
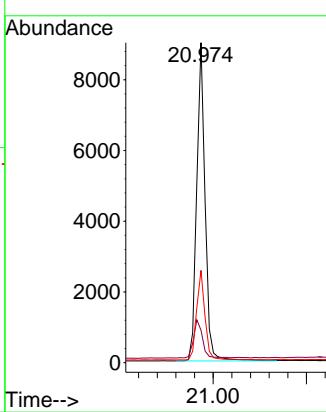
Instrument :

BNA_N

ClientSampleId :

SSTDICCO.1

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 Supervised By :mohammad ahmed 12/03/2024


#30

Pyrene

Concen: 0.119 ng

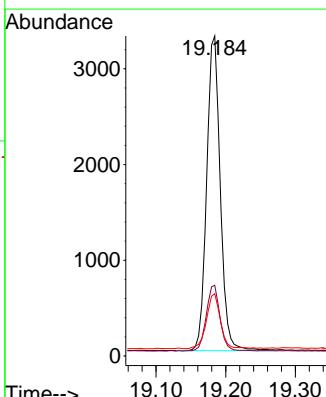
RT: 19.184 min Scan# 1968

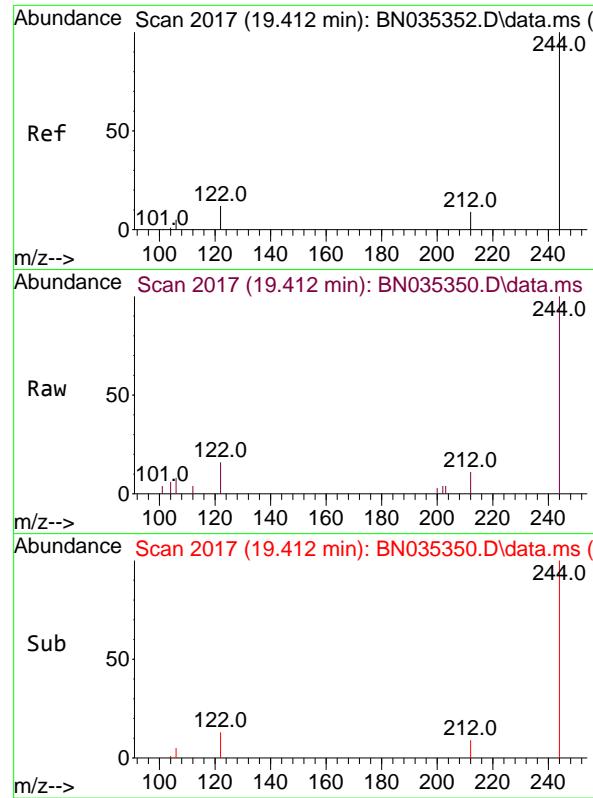
Delta R.T. 0.005 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Tgt	Ion:202	Resp:	4461
Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	18.0	14.3	21.5



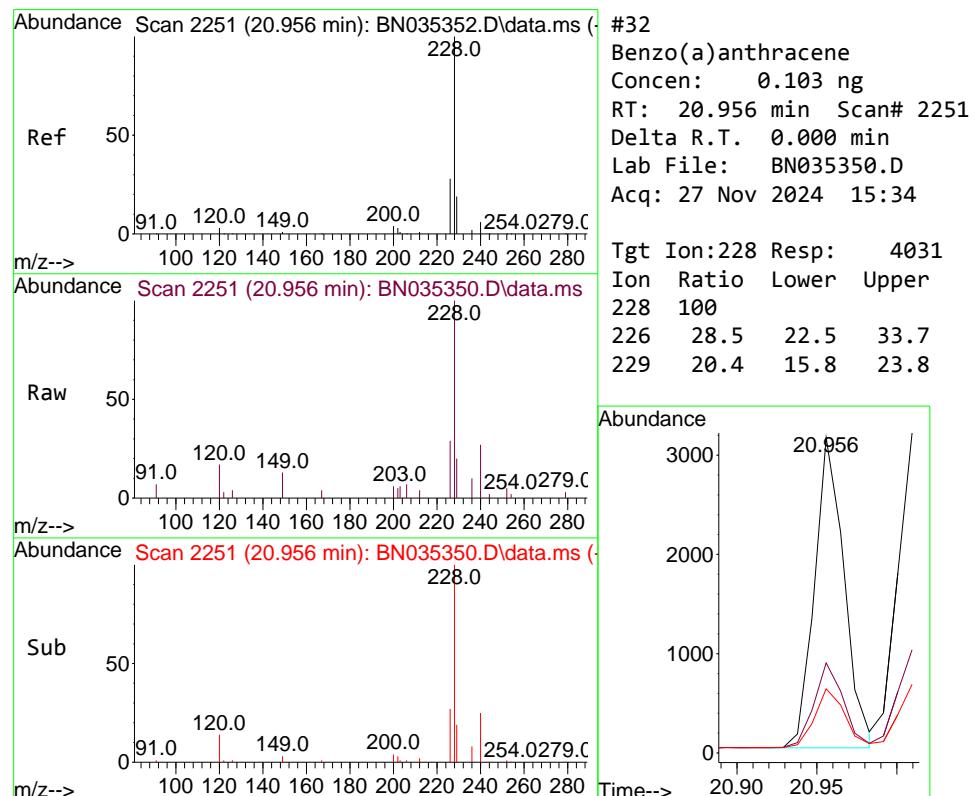
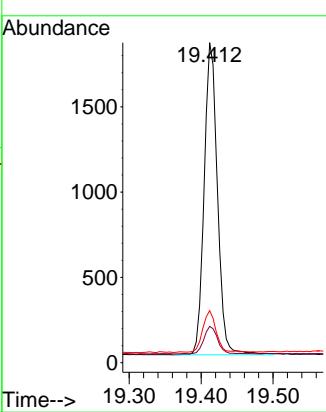


#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument : BNA_N
ClientSampleId : SSTDICCO.1

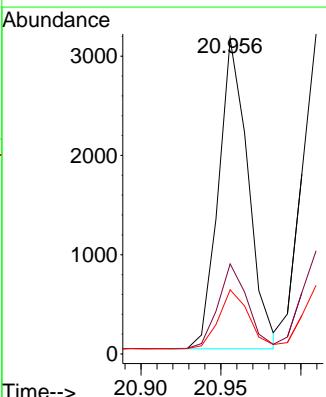
Manual Integrations
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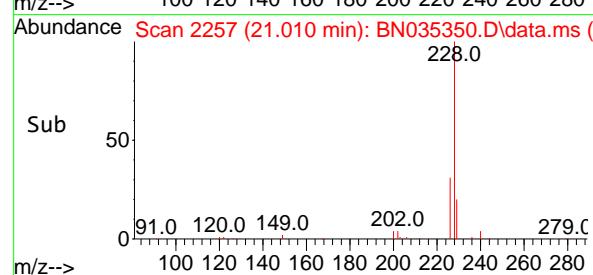
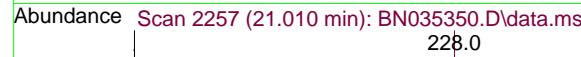
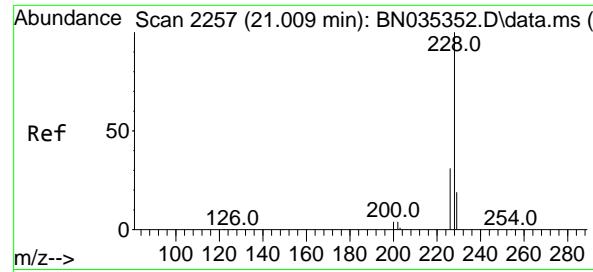
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

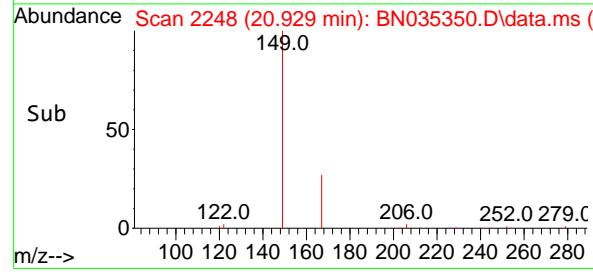
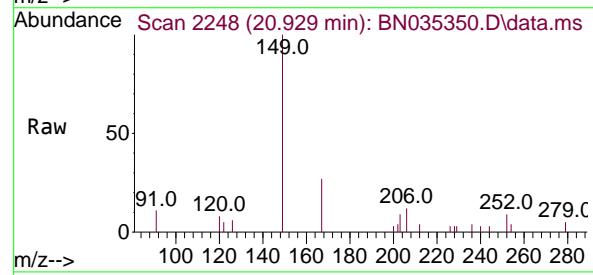
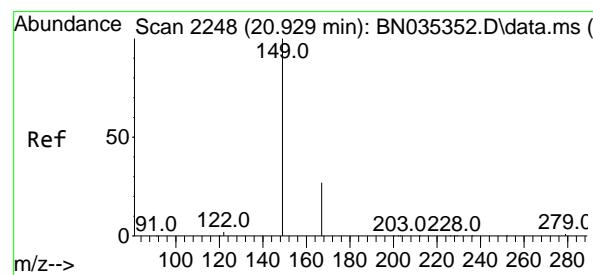
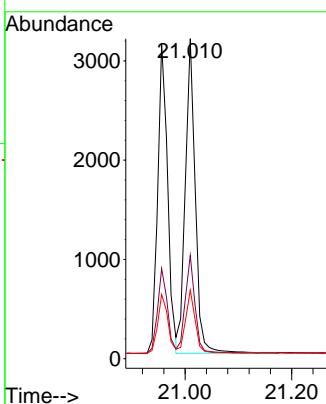
ClientSampleId :

SSTDICCO.1

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Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.097 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

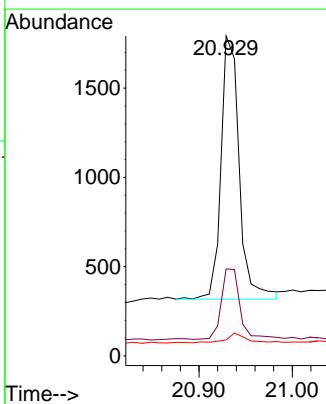
Tgt Ion:149 Resp: 1999

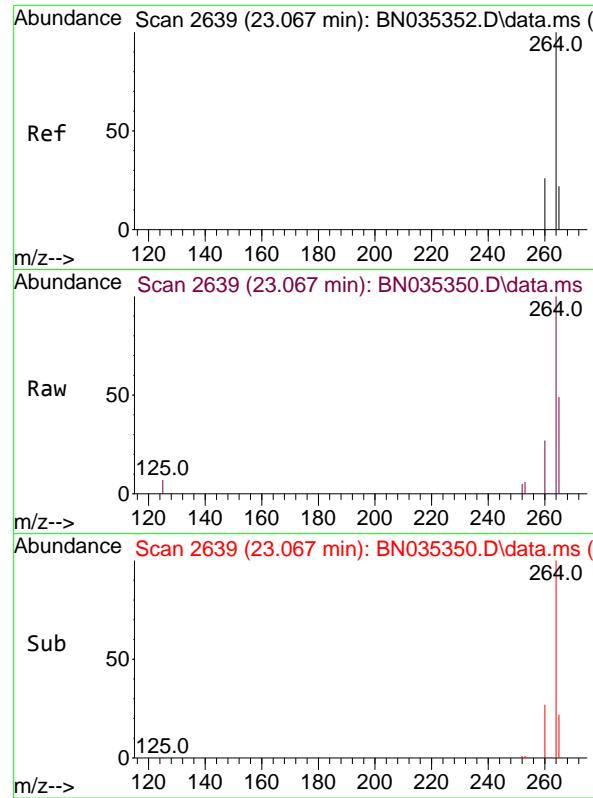
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 3.6 2.7 4.1



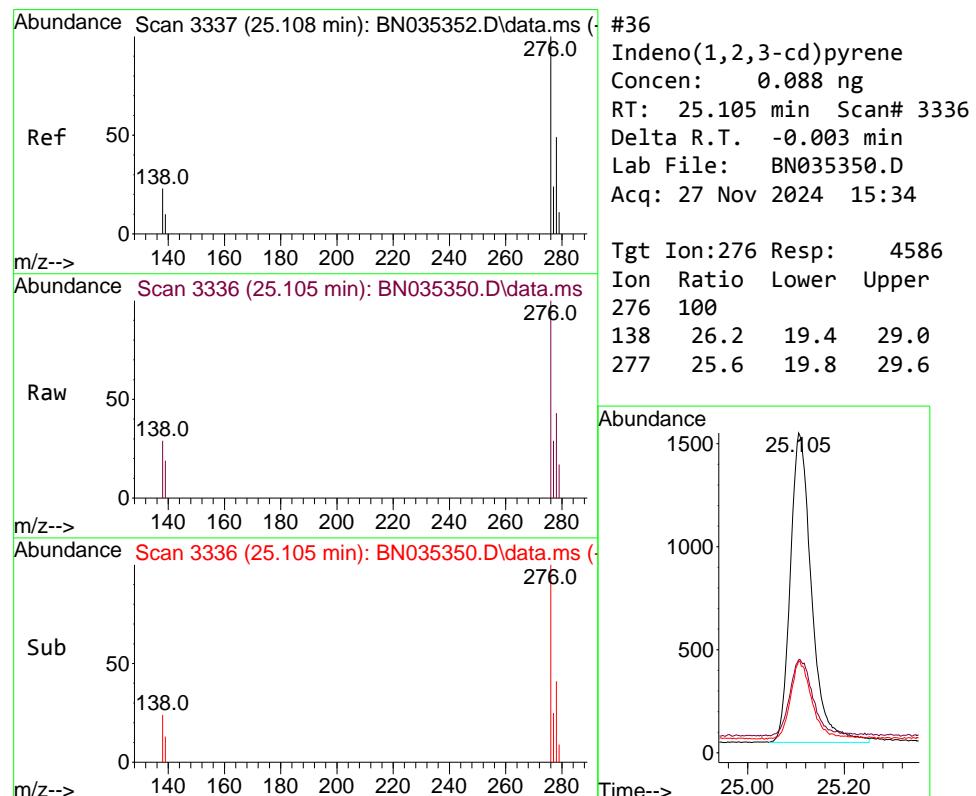
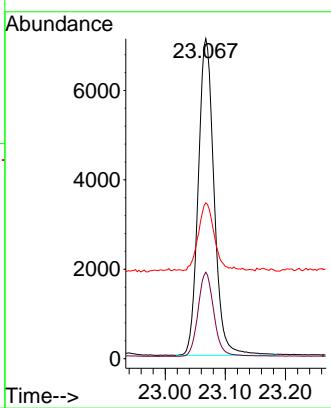


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument : BNA_N
ClientSampleId : SSTDICCO.1

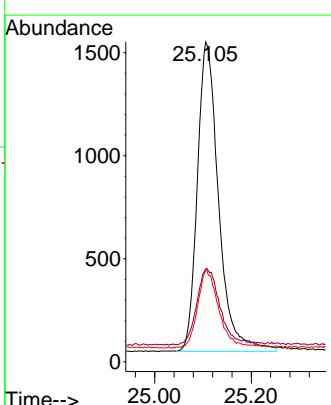
Manual Integrations
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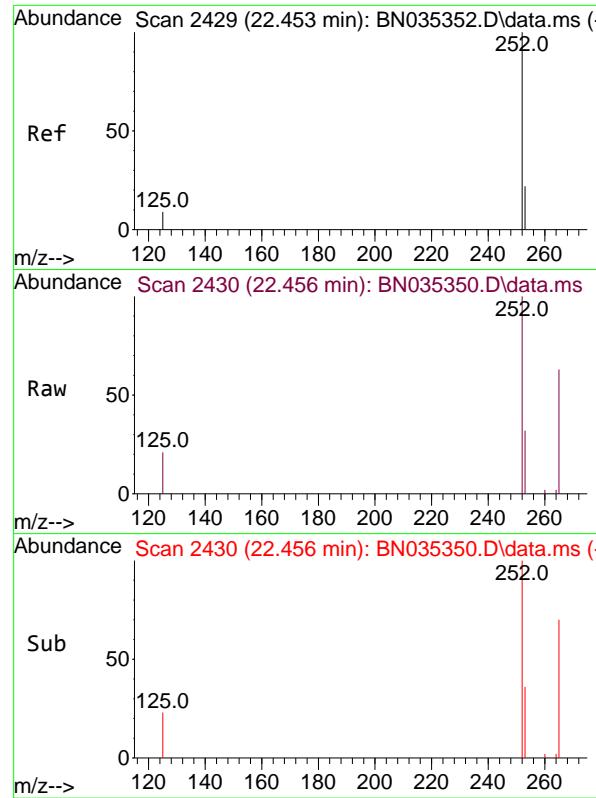
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.088 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# 2

Delta R.T. 0.003 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDICCO.1

Tgt Ion:252 Resp: 4243

Ion Ratio Lower Upper

252 100

253 32.1 19.6 29.43

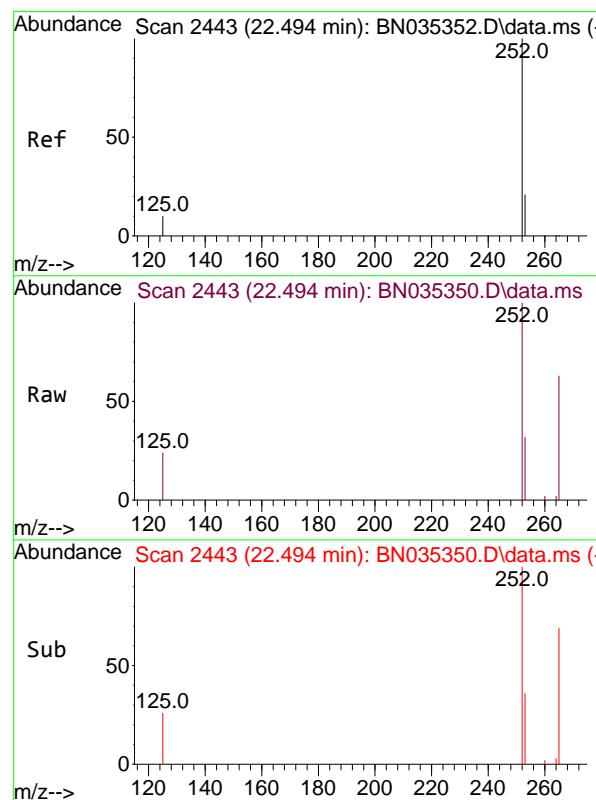
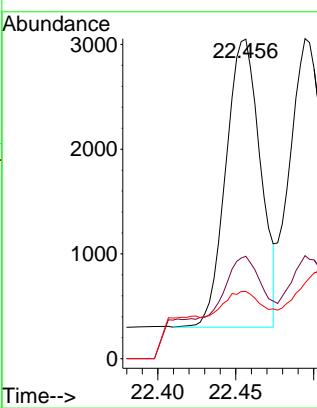
125 21.0 9.6 14.43

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: 0.107 ng

RT: 22.494 min Scan# 2443

Delta R.T. 0.000 min

Lab File: BN035350.D

Acq: 27 Nov 2024 15:34

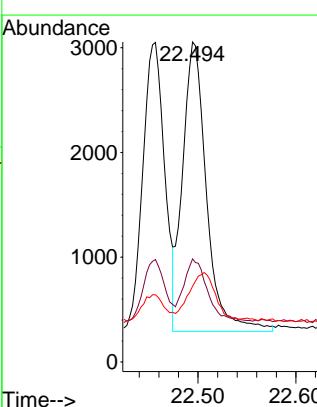
Tgt Ion:252 Resp: 4695

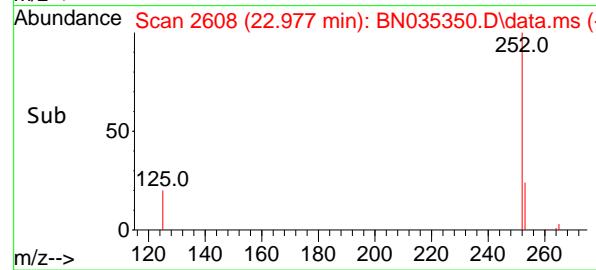
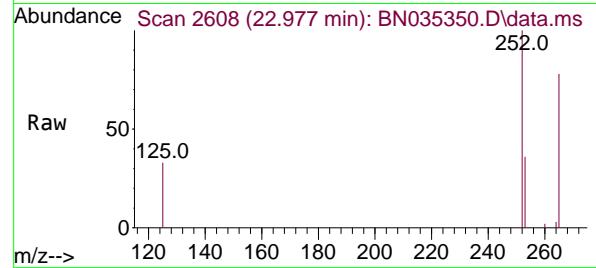
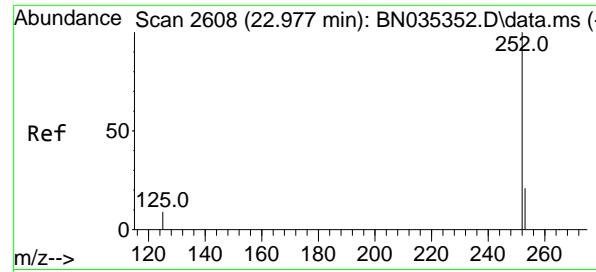
Ion Ratio Lower Upper

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

Instrument :

BNA_N

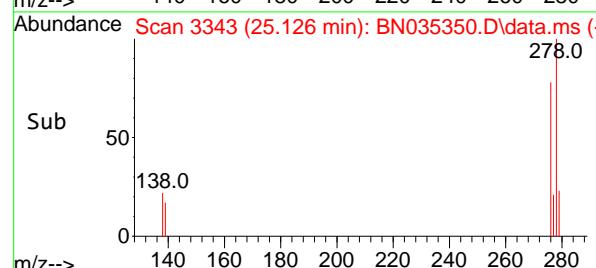
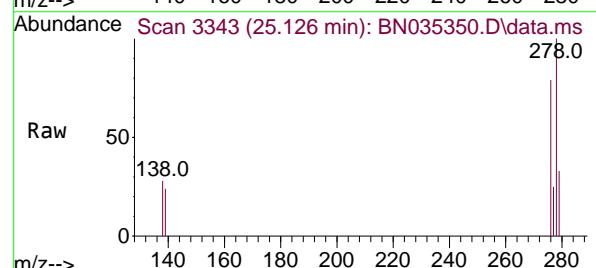
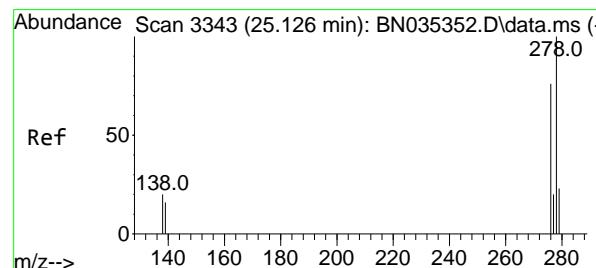
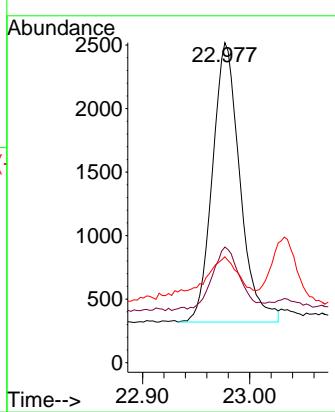
ClientSampleId :

SSTDICCO.1

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

Supervised By :mohammad ahmed 12/03/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

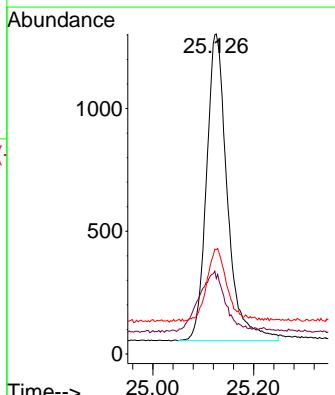
RT: 25.126 min Scan# 3343

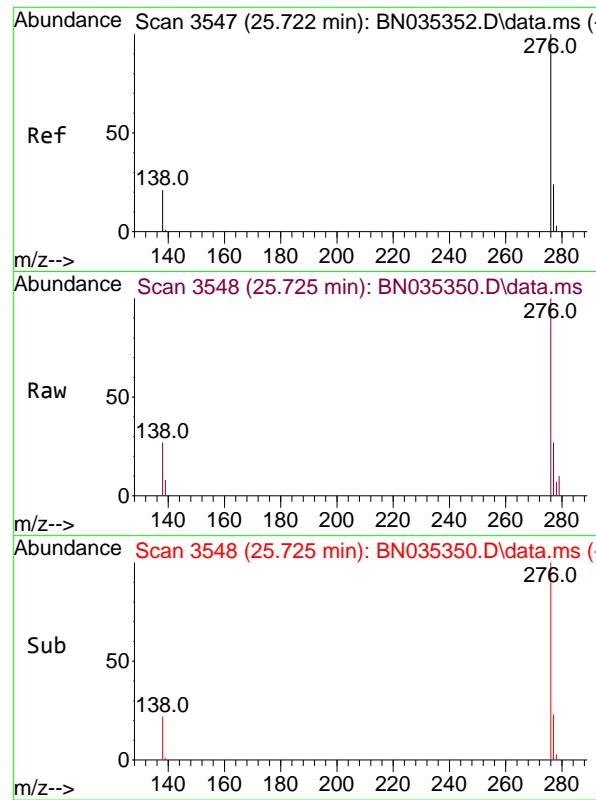
Delta R.T. 0.000 min

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#



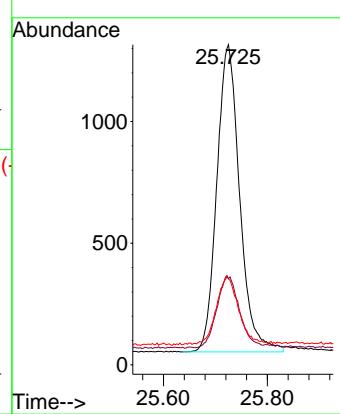


#41
Benzo(g,h,i)perylene
Concen: 0.088 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

Instrument : BNA_N
ClientSampleId : SSTDICCO.1

Manual Integrations
APPROVED

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



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.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

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

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

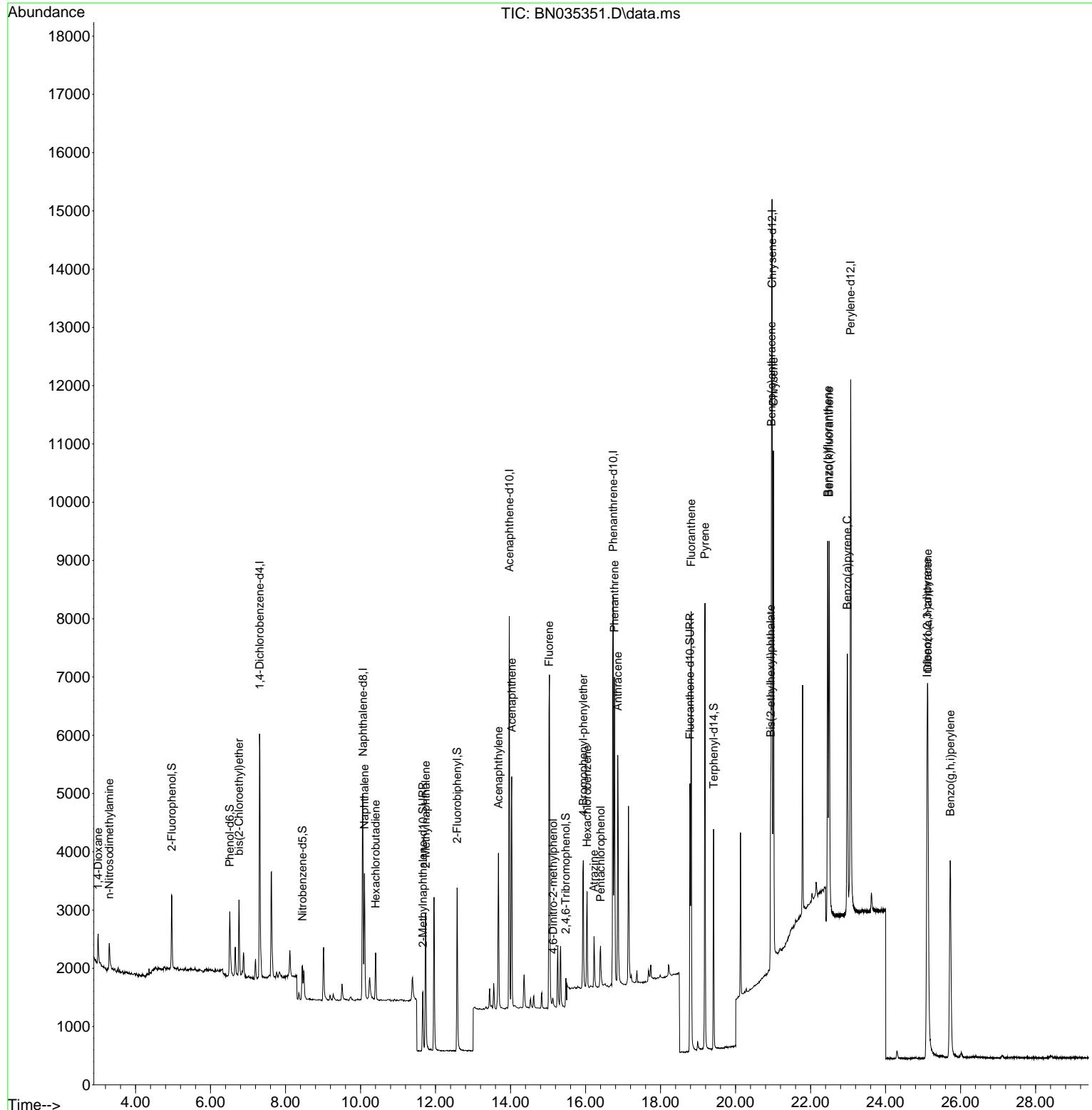
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 Data File : BN035351.D
 Acq On : 27 Nov 2024 16:10
 Operator : RC/JU
 Sample : SSTDICCO.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

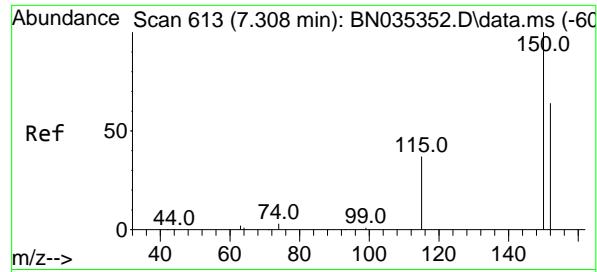
Quant Time: Nov 27 22:52:33 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.2

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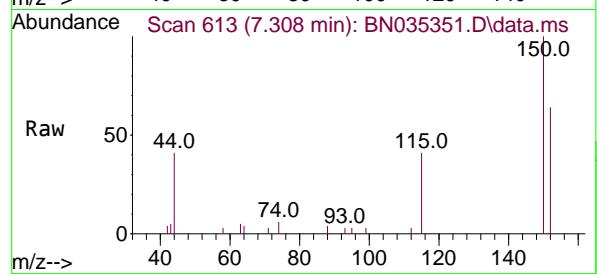
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

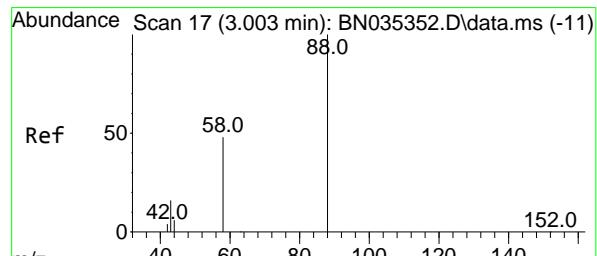
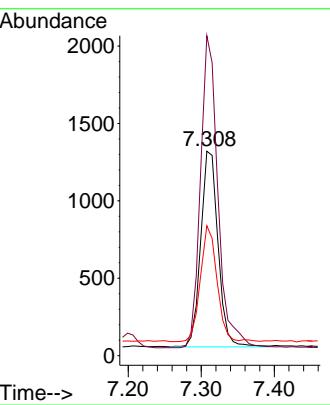
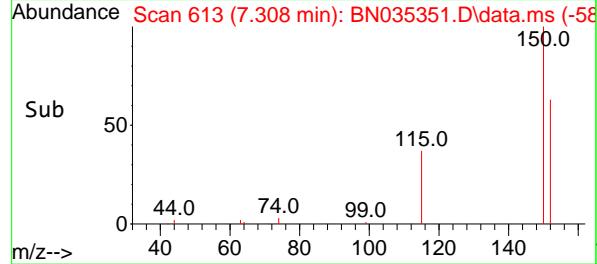
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



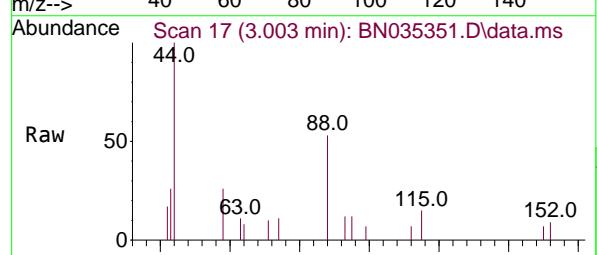
Tgt Ion:152 Resp: 2084
Ion Ratio Lower Upper
152 100
150 156.5 124.0 186.0
115 63.5 49.6 74.4

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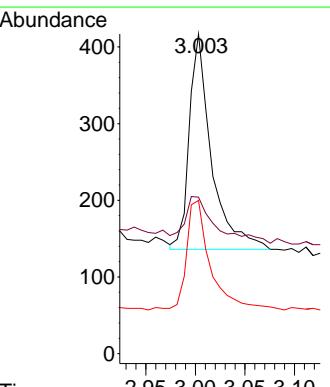
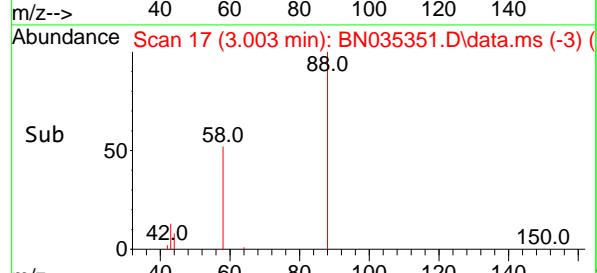
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

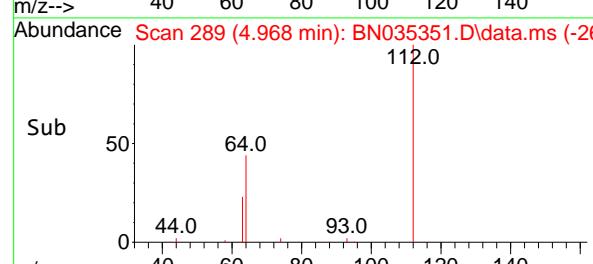
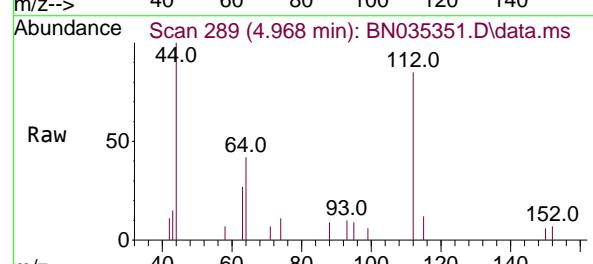
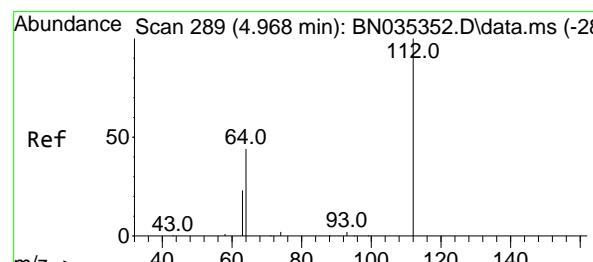
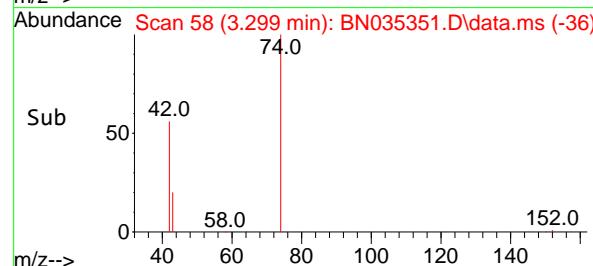
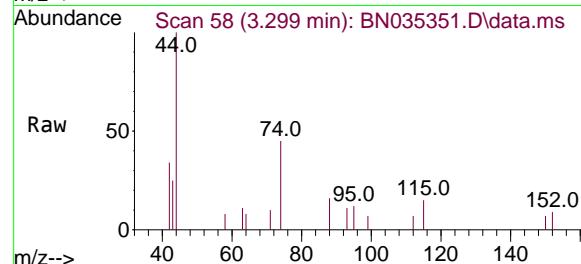
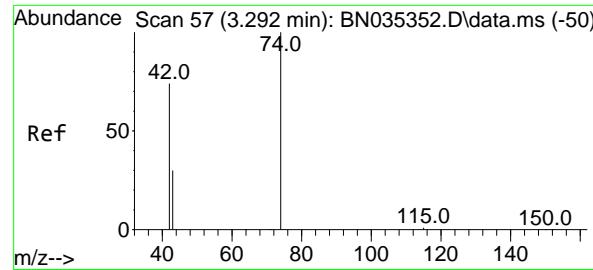


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



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

Instrument :

BNA_N

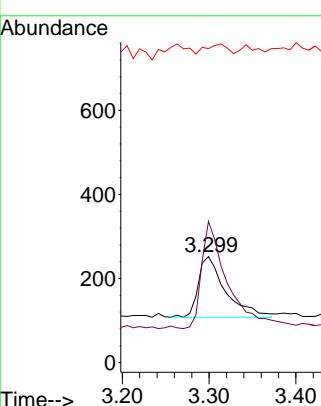
ClientSampleId :

SSTDICCO.2

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

Supervised By :mohammad ahmed 12/03/2024



#4

2-Fluorophenol

Concen: 0.219 ng

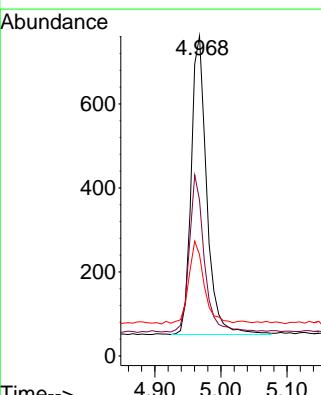
RT: 4.968 min Scan# 289

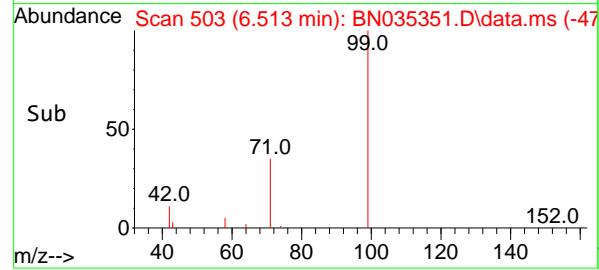
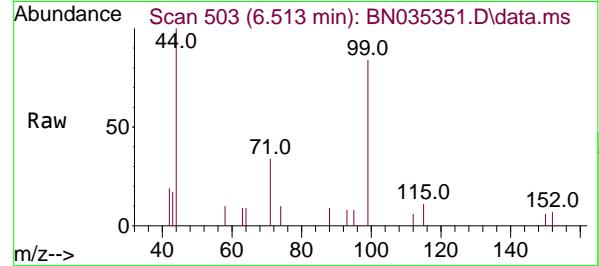
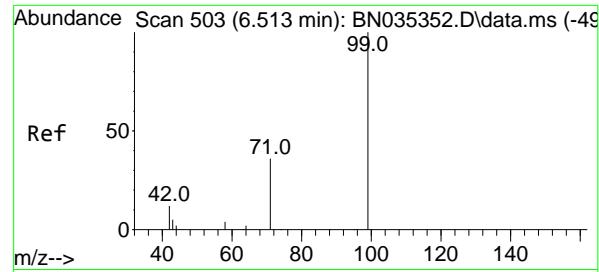
Delta R.T. -0.000 min

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



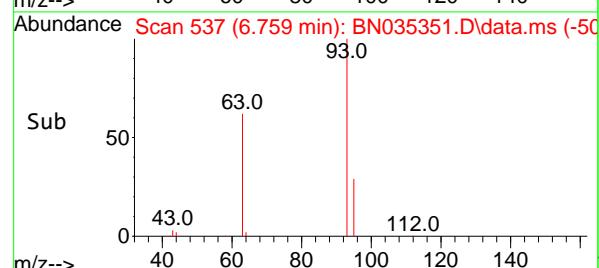
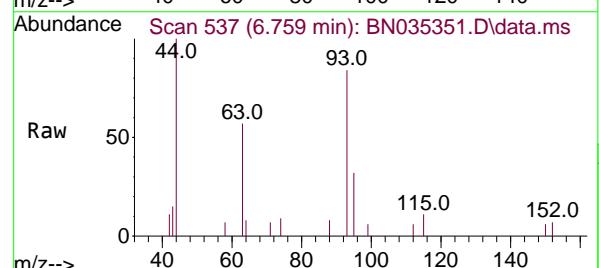
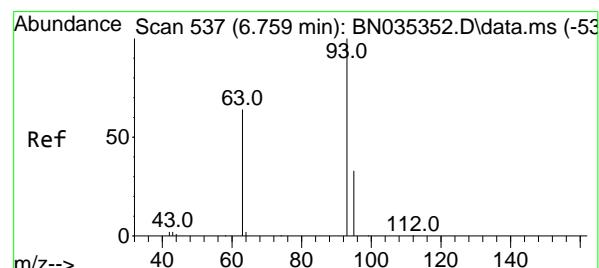


#5
 Phenol-d6
 Concen: 0.186 ng
 RT: 6.513 min Scan# 5
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

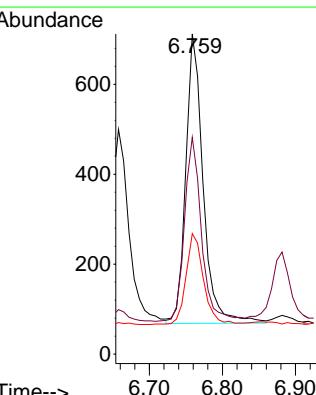
Manual Integrations APPROVED

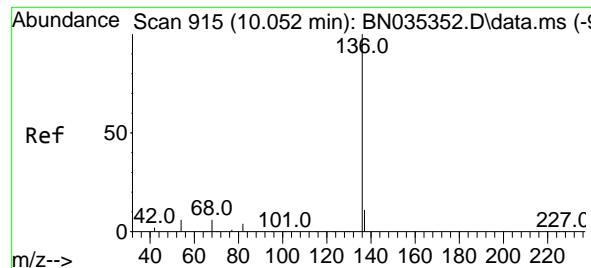
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



#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

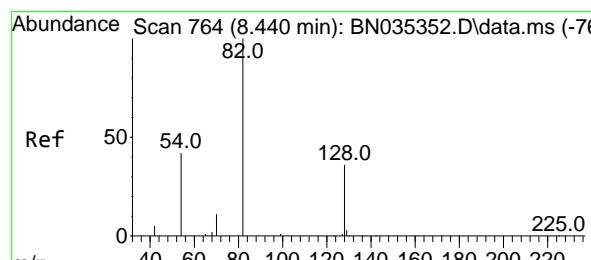
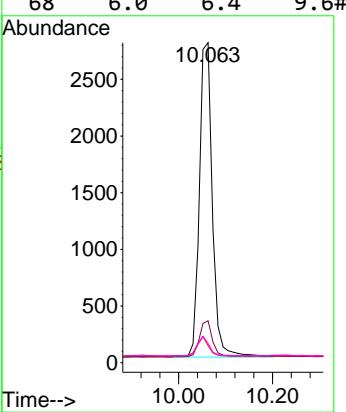
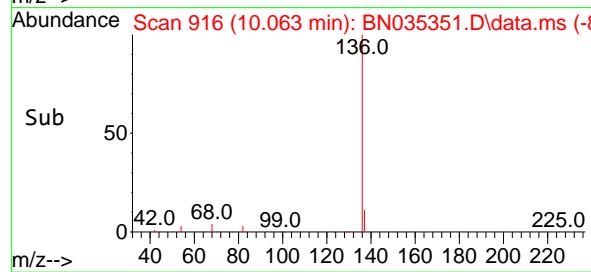
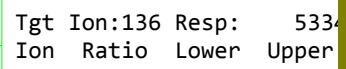
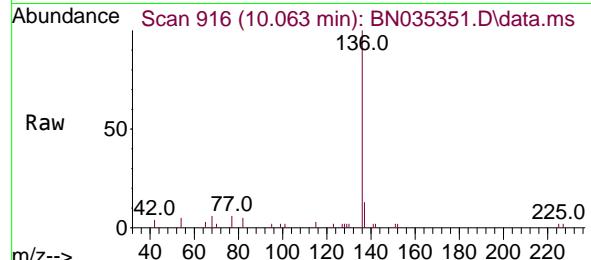




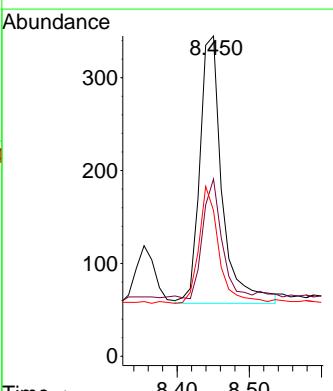
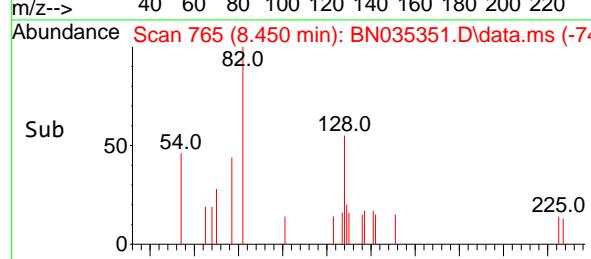
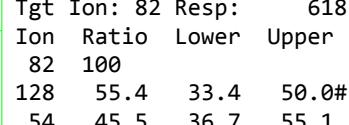
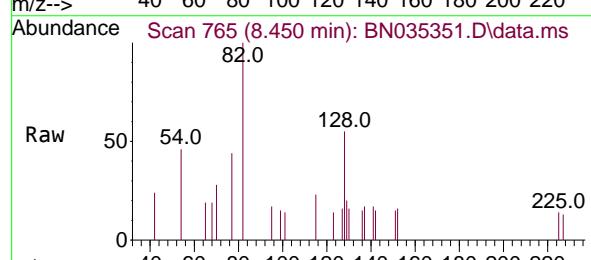
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.063 min Scan# 9 Instrument :
Delta R.T. 0.011 min BNA_N
Lab File: BN035351.D ClientSampleId :
Acq: 27 Nov 2024 16:10 SSTDICC02

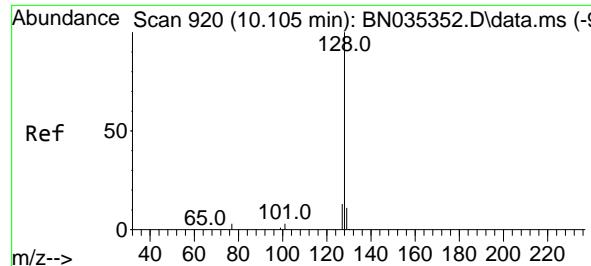
Manual Integrations APPROVED

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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





#9

Naphthalene

Concen: 0.197 ng

RT: 10.105 min Scan# 9

Delta R.T. -0.000 min

Lab File: BN035351.D

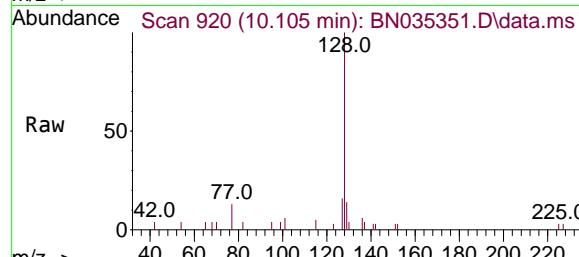
Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

ClientSampleId :

SSTDICCO.2



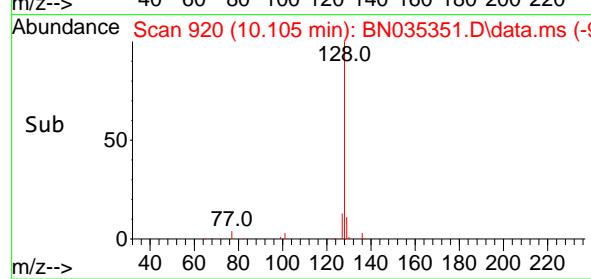
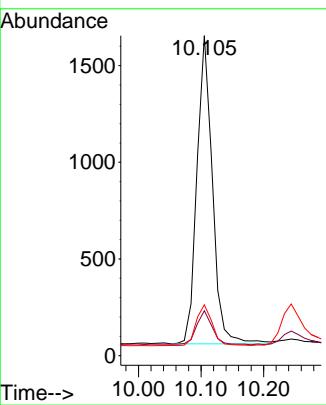
Tgt Ion:128 Resp: 274

Ion Ratio Lower Upper

128 100

129 14.0 9.8 14.6

127 15.9 11.4 17.2

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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

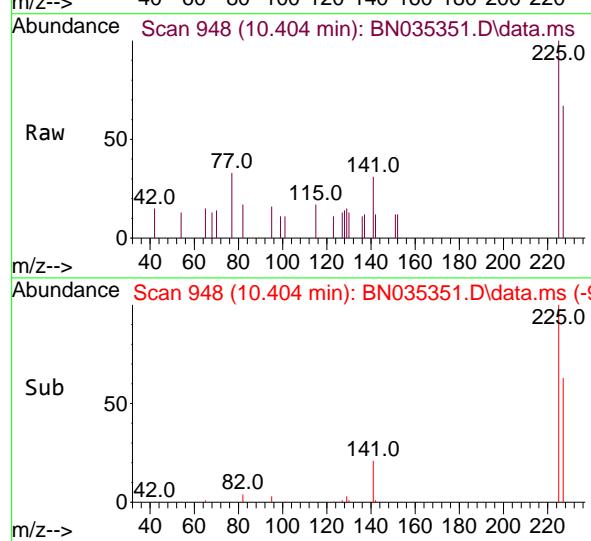
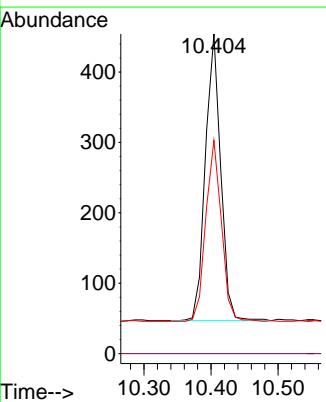
Tgt Ion:225 Resp: 646

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.7 51.3 76.9



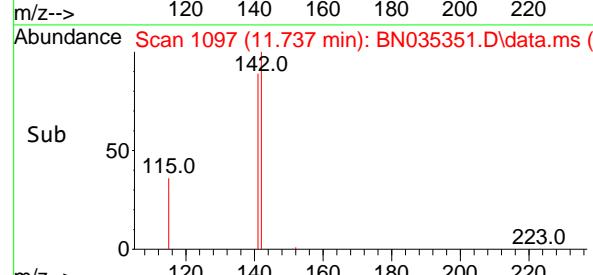
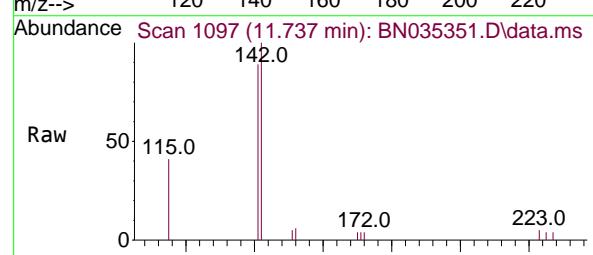
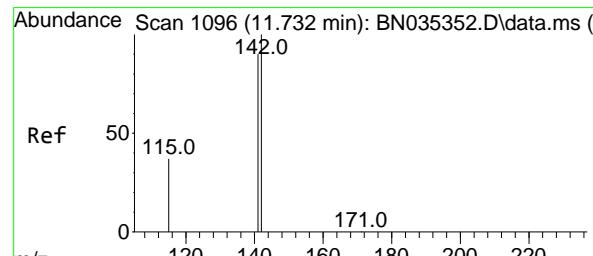
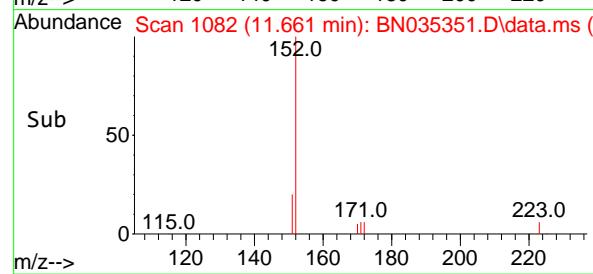
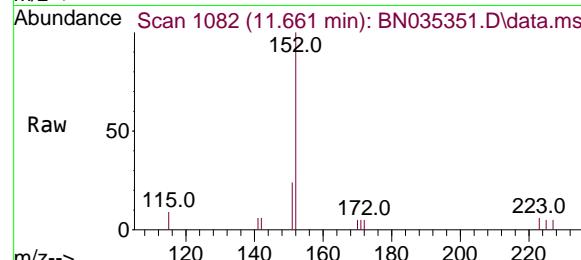
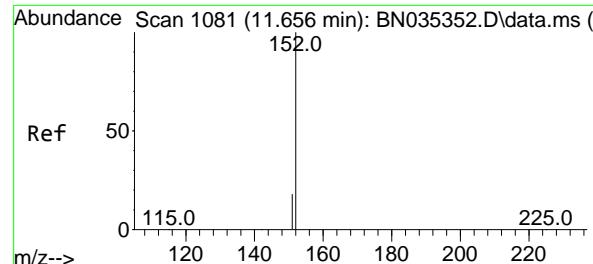
Abundance Scan 948 (10.404 min): BN035351.D\data.ms (-9)

225.0

Sub 50

141.0

42.0 82.0



#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

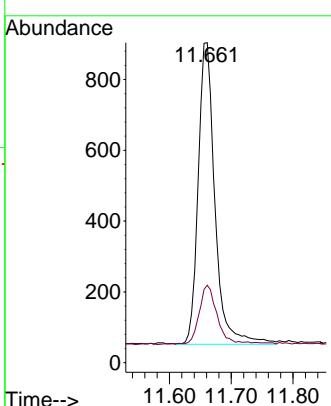
ClientSampleId :

SSTDICCO.2

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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

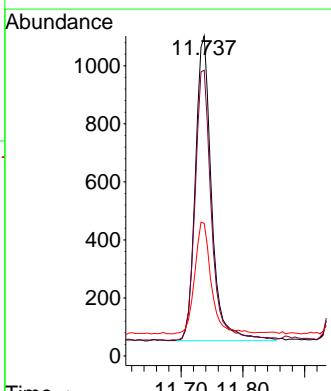
Tgt Ion:142 Resp: 1910

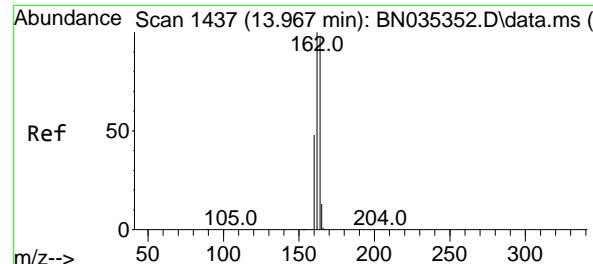
Ion Ratio Lower Upper

142 100

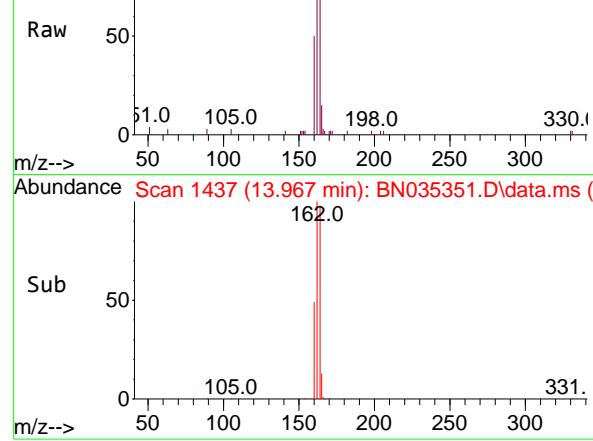
141 89.3 72.2 108.4

115 41.4 31.4 47.0

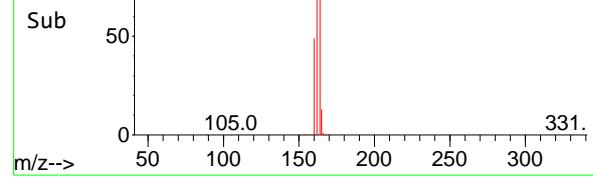




Abundance Scan 1437 (13.967 min): BN035351.D\data.ms (-)



Abundance Scan 1437 (13.967 min): BN035351.D\data.ms (-)



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

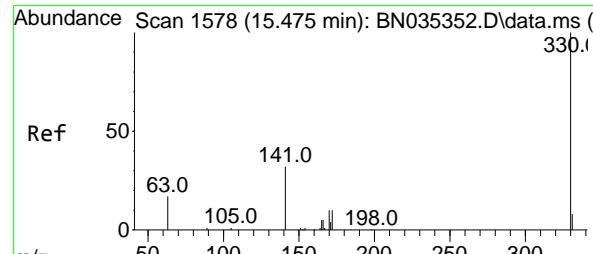
ClientSampleId :

SSTDICCO.2

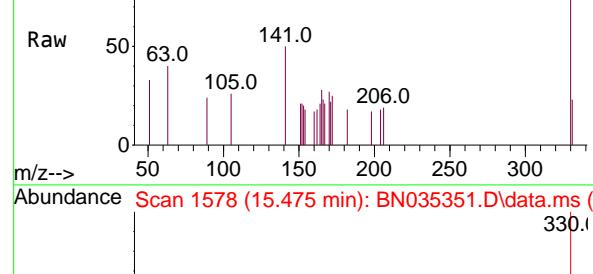
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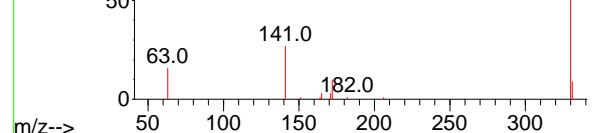
Supervised By :mohammad ahmed 12/03/2024



Abundance Scan 1578 (15.475 min): BN035351.D\data.ms (-)



Abundance Scan 1578 (15.475 min): BN035351.D\data.ms (-)



#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

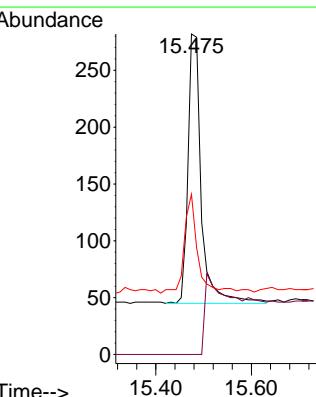
Tgt Ion:330 Resp: 492

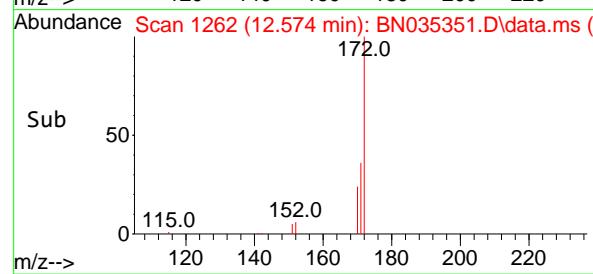
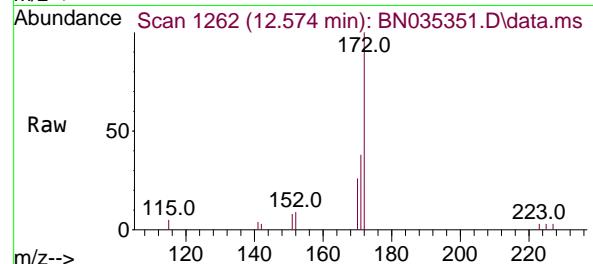
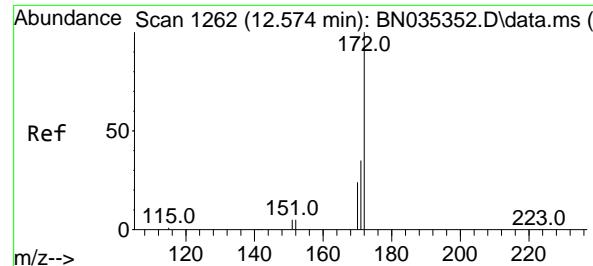
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 37.2 26.6 40.0



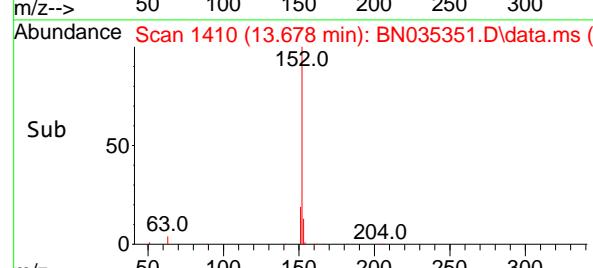
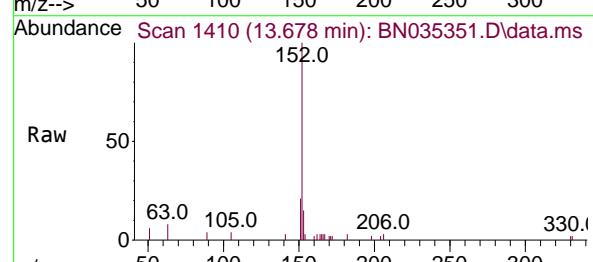
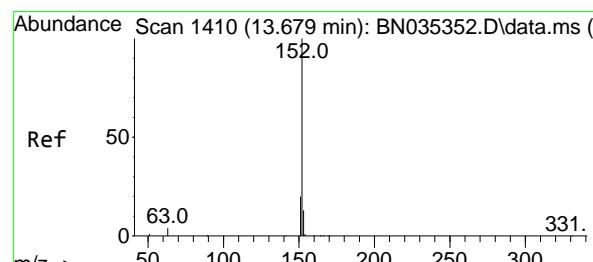
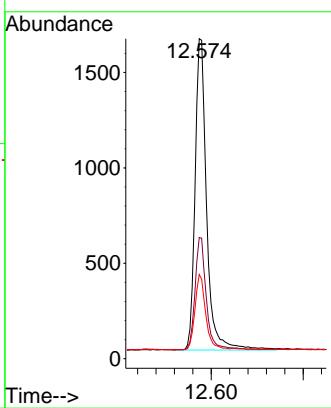


#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.2

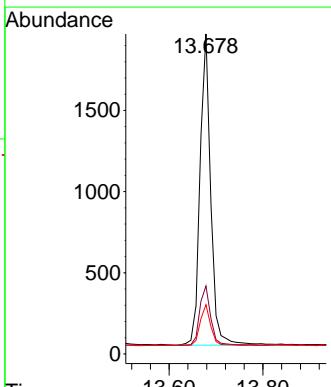
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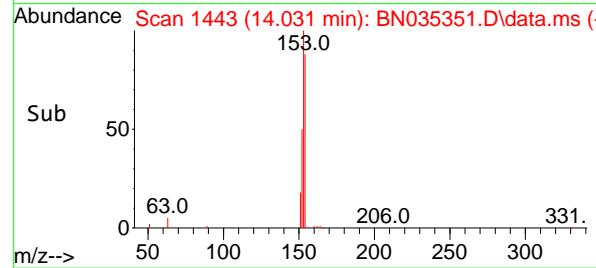
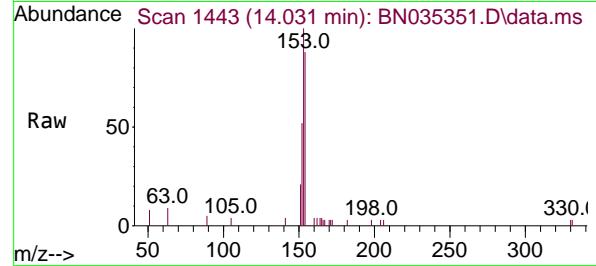
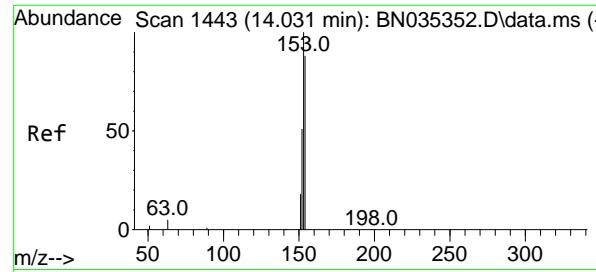
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1443

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

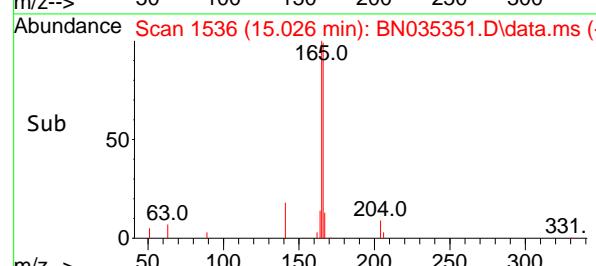
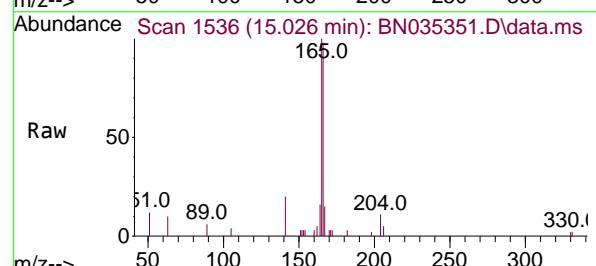
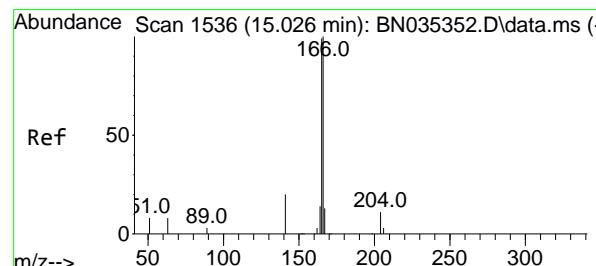
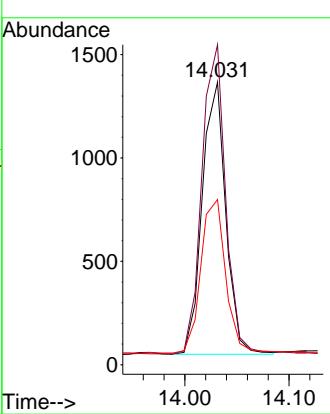
ClientSampleId :

SSTDICCO.2

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#18

Fluorene

Concen: 0.188 ng

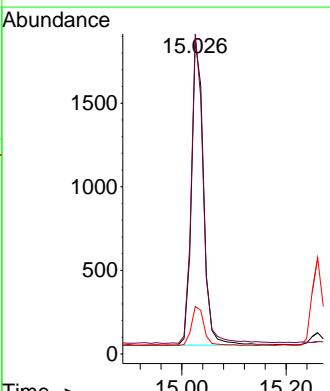
RT: 15.026 min Scan# 1536

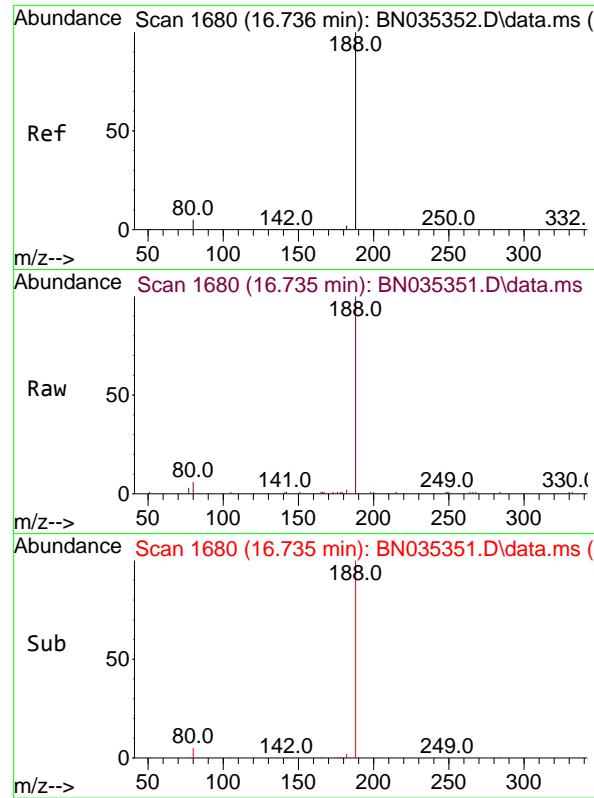
Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt	Ion:166	Resp:	2949
Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.7	119.5
167	14.1	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.735 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument :

BNA_N

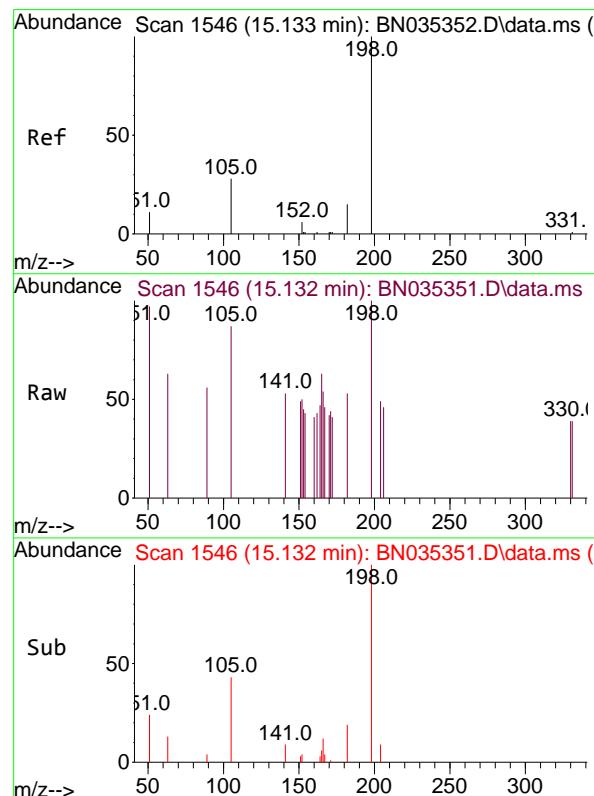
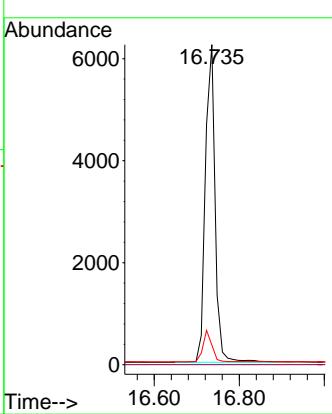
ClientSampleId :

SSTDICCO.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

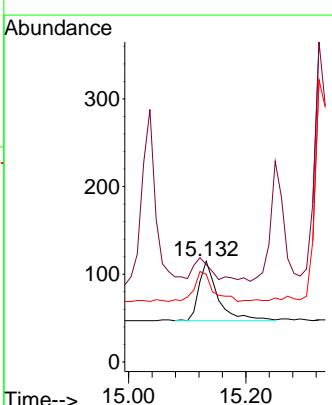
Tgt Ion:198 Resp: 153

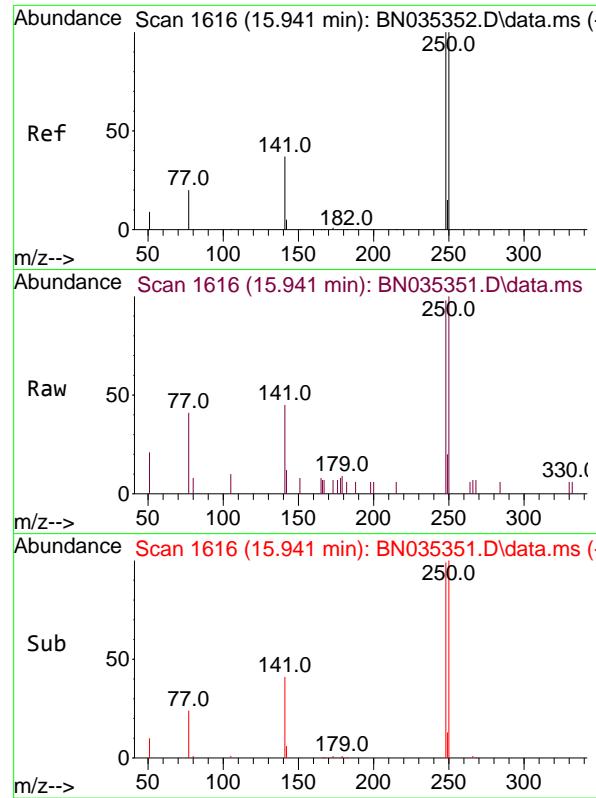
Ion Ratio Lower Upper

198 100

51 96.5 46.5 69.7#

105 87.0 45.3 67.9#



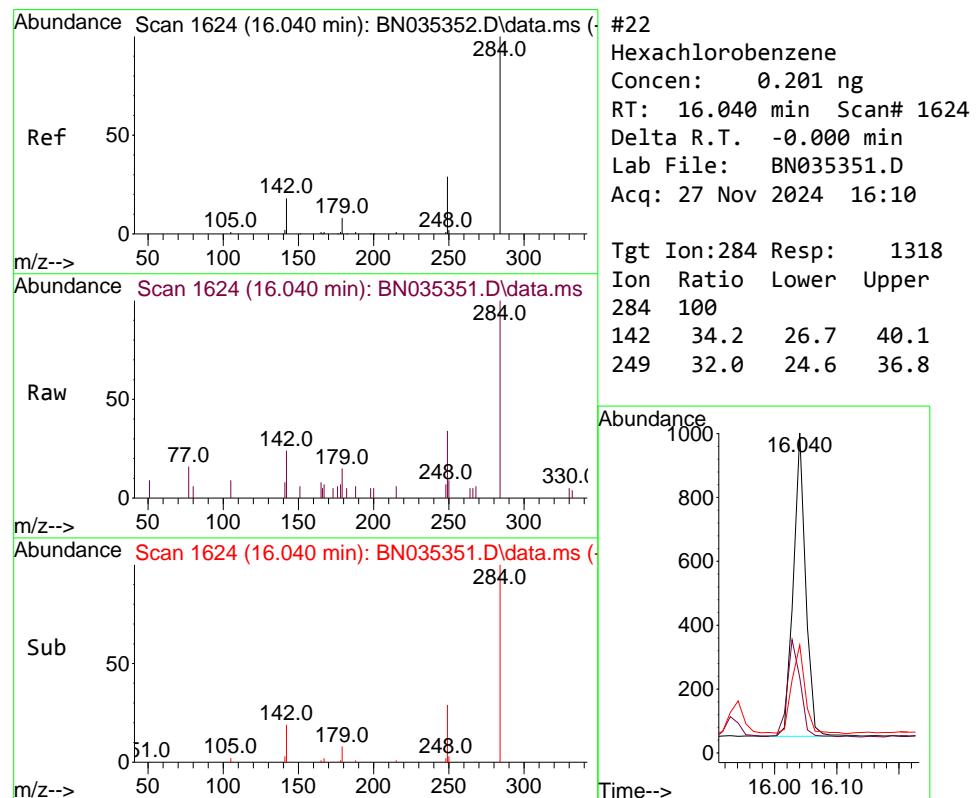
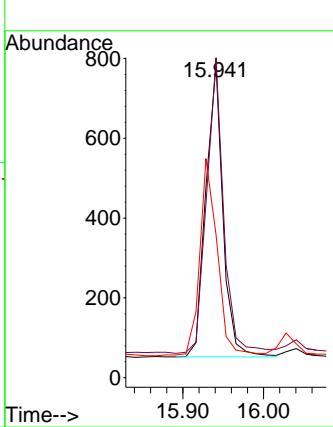


#21
4-Bromophenyl-phenylether
Concen: 0.171 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.2

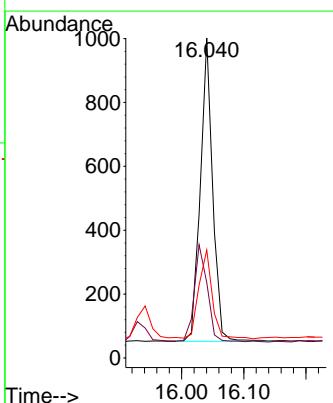
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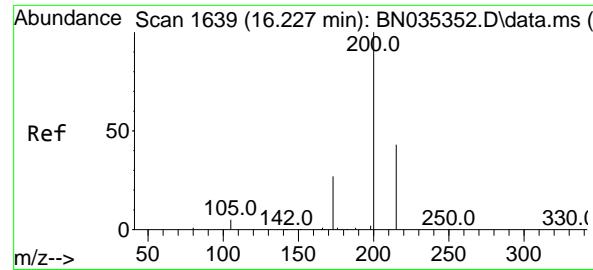
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



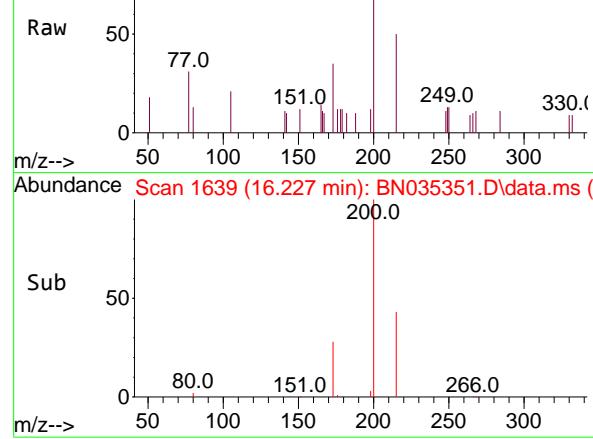
#22
Hexachlorobenzene
Concen: 0.201 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

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

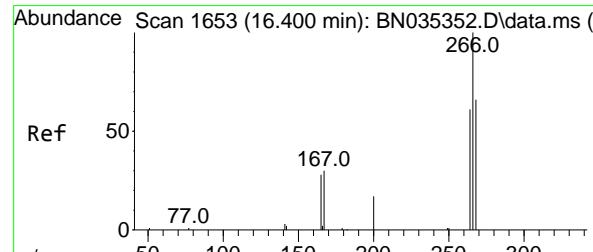
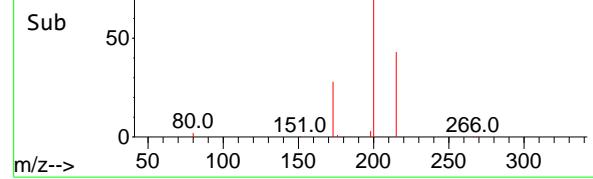




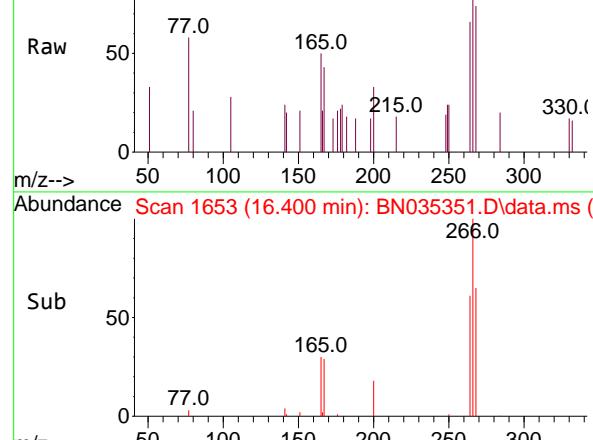
Abundance Scan 1639 (16.227 min): BN035351.D\data.ms (-)



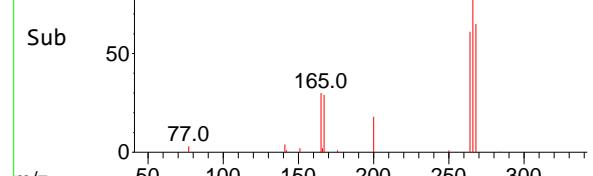
Abundance Scan 1639 (16.227 min): BN035351.D\data.ms (-)



Abundance Scan 1653 (16.400 min): BN035351.D\data.ms (-)



Abundance Scan 1653 (16.400 min): BN035351.D\data.ms (-)



#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

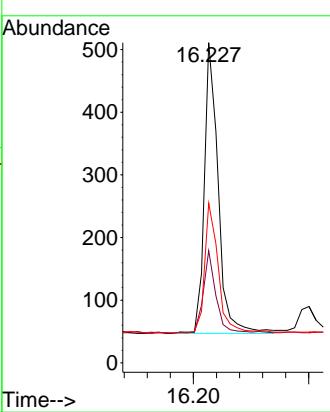
ClientSampleId :

SSTDICCO.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

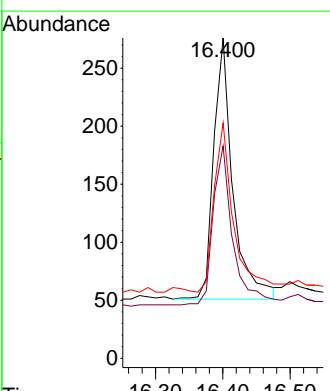
Tgt Ion:266 Resp: 445

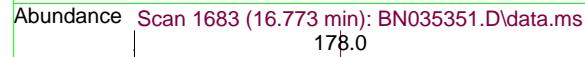
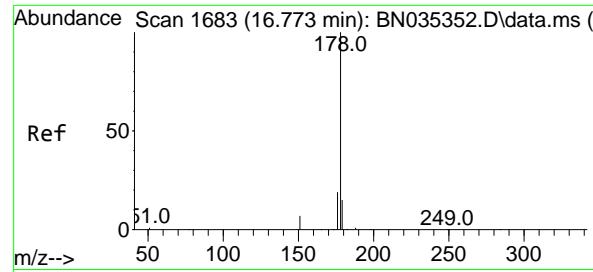
Ion Ratio Lower Upper

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

Instrument :

BNA_N

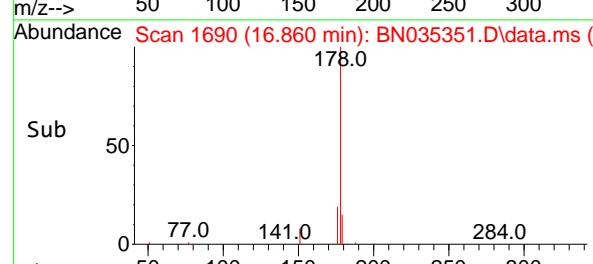
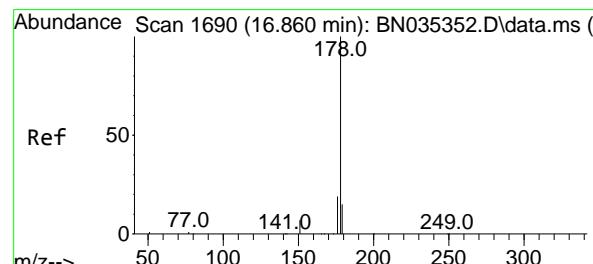
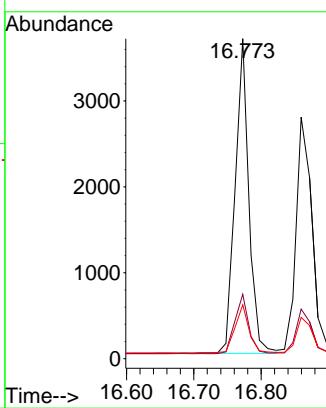
ClientSampleId :

SSTDICCO.2

**Manual Integrations
APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#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

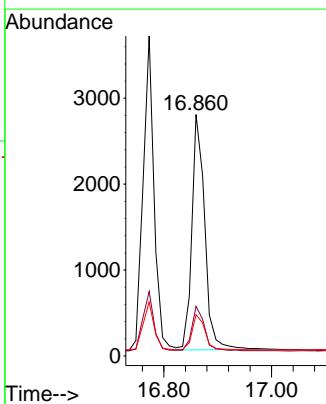
Tgt Ion:178 Resp: 4571

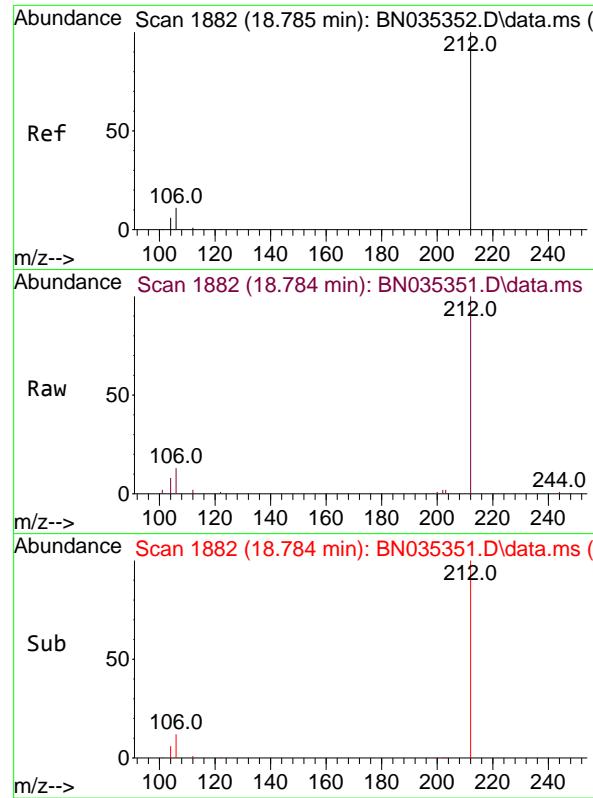
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.4 12.6 18.8



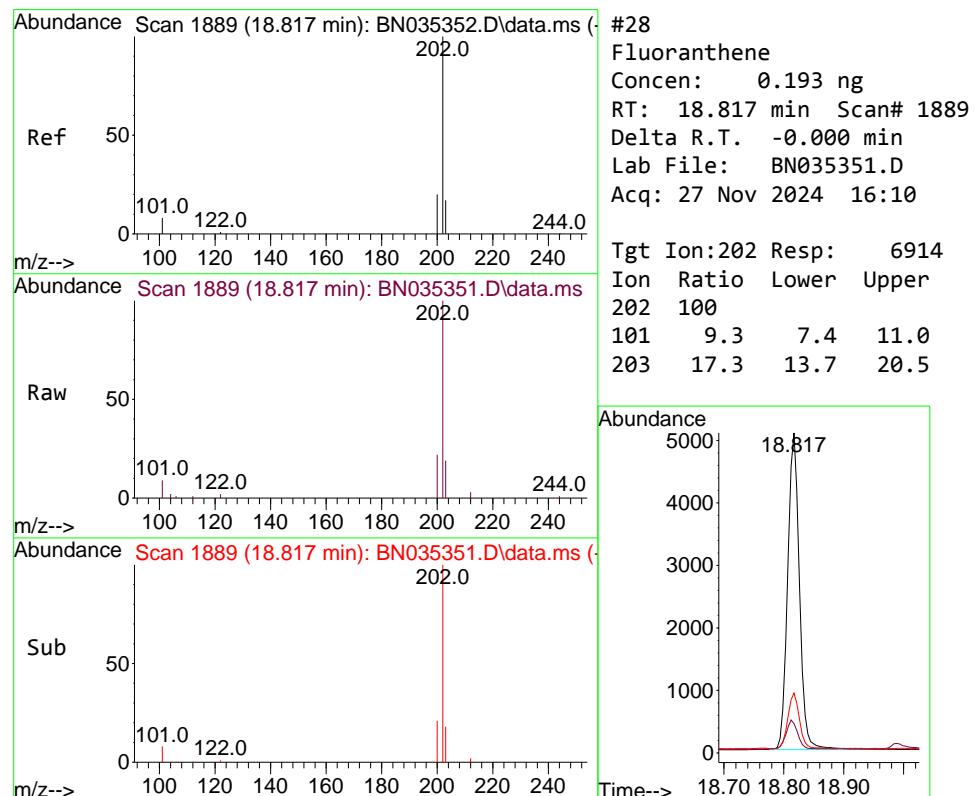
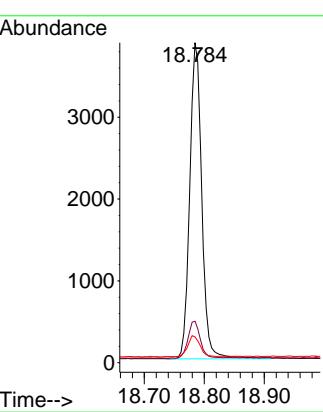


#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.784 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

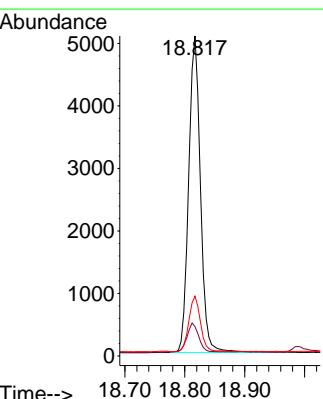
Manual Integrations
APPROVED

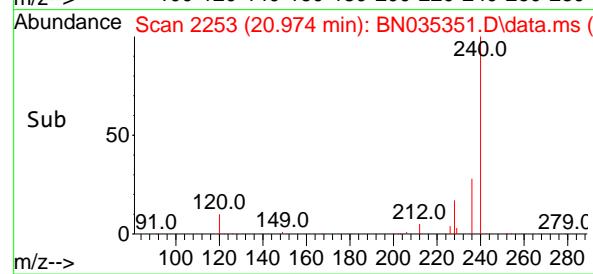
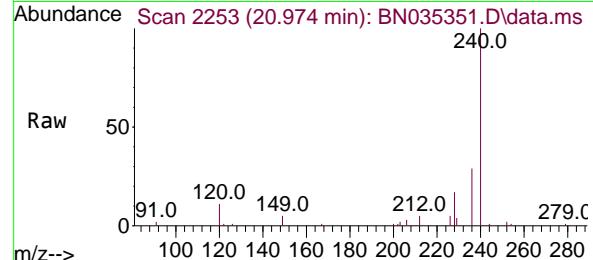
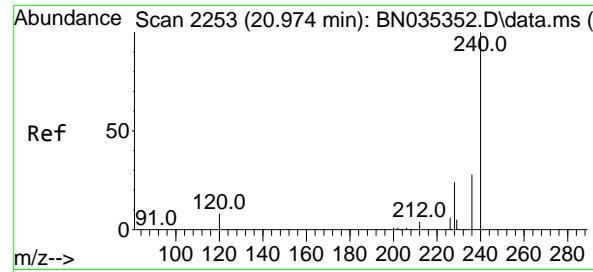
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:202 Resp: 6914
Ion Ratio Lower Upper
202 100
101 9.3 7.4 11.0
203 17.3 13.7 20.5





#29

Chrysene-d₁₂

Concen: 0.400 ng

RT: 20.974 min Scan# 2

Delta R.T. -0.000 min

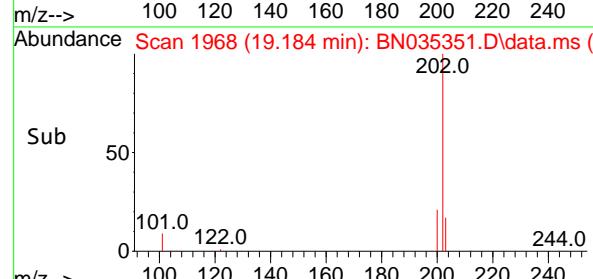
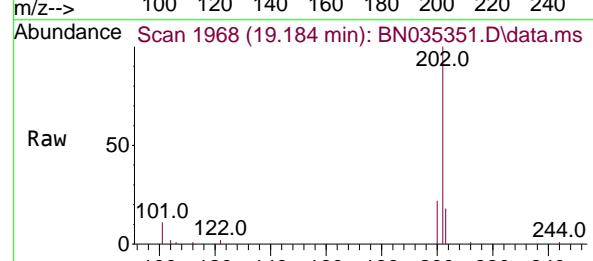
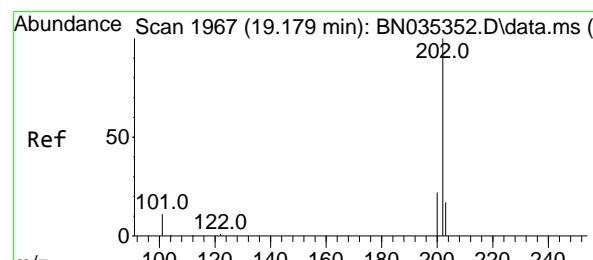
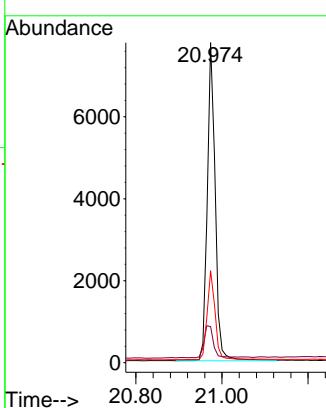
Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Instrument : BNA_N

ClientSampleId : SSTDICCO.2

**Manual Integrations
APPROVED**

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


#30

Pyrene

Concen: 0.217 ng

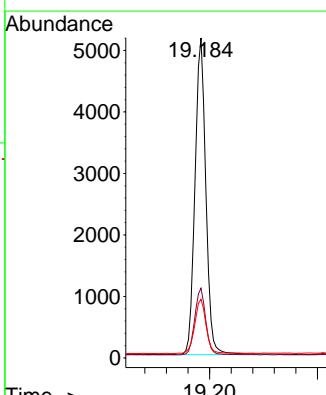
RT: 19.184 min Scan# 1968

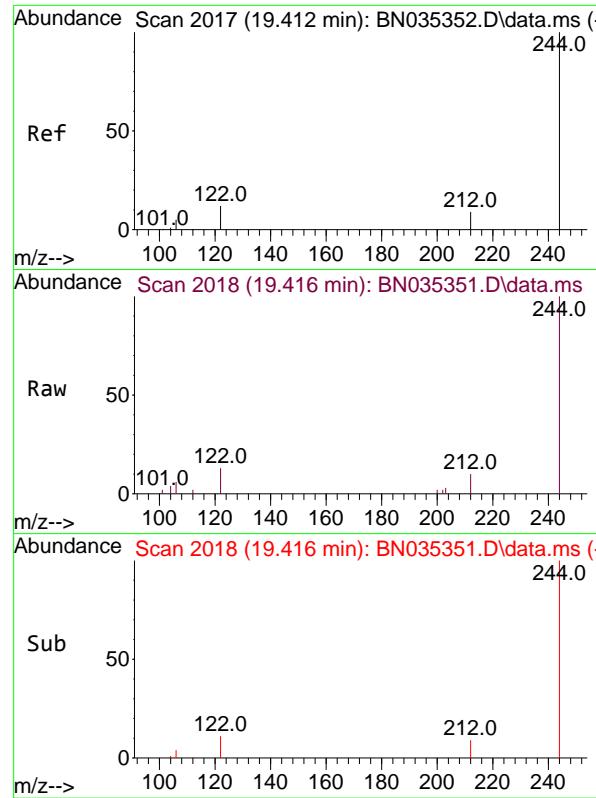
Delta R.T. 0.005 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

Tgt	Ion:202	Resp:	7198
Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5



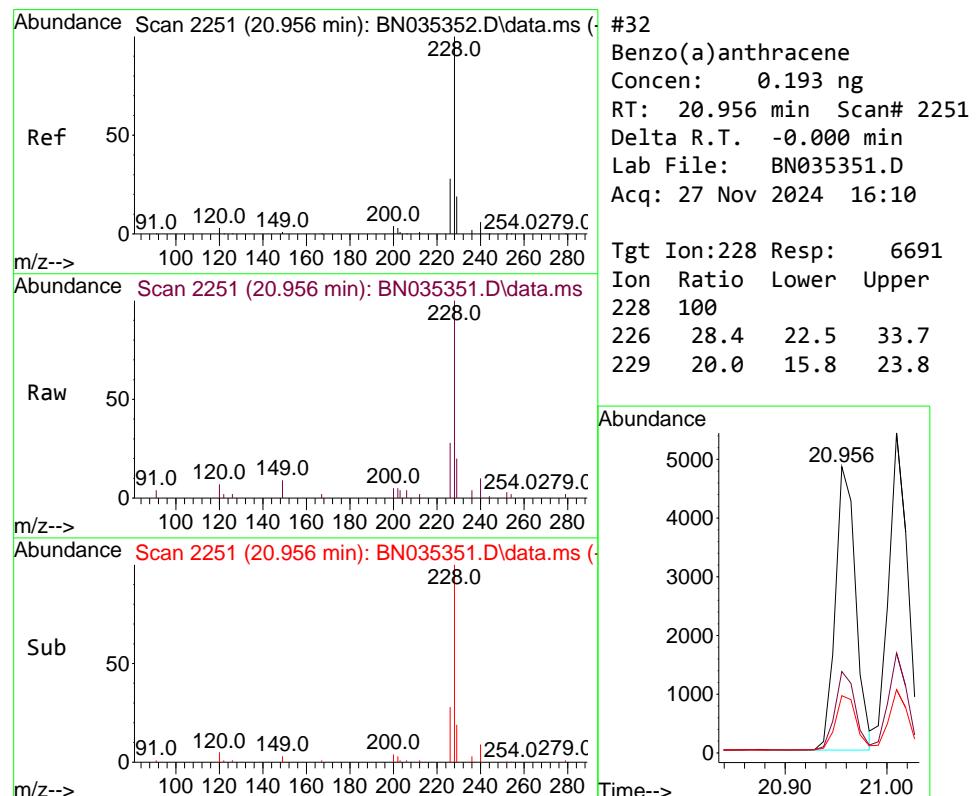
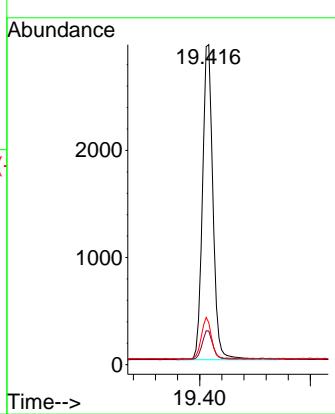


#31
Terphenyl-d14
Concen: 0.185 ng
RT: 19.416 min Scan# 2
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

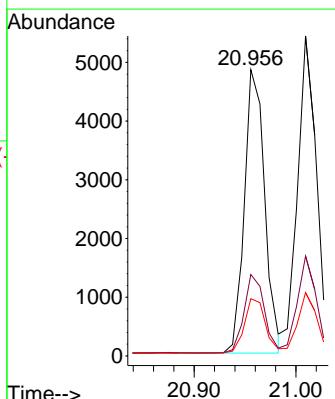
Manual Integrations
APPROVED

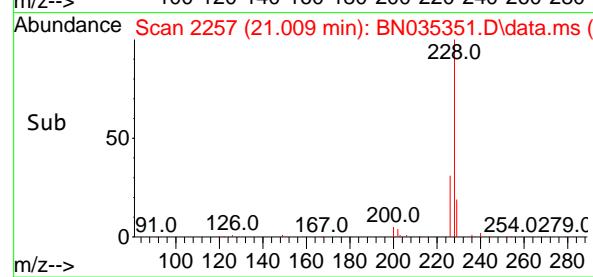
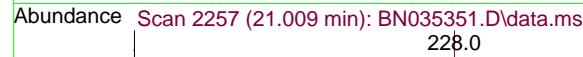
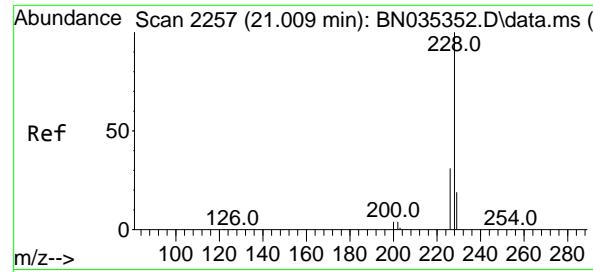
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:228 Resp: 6691
Ion Ratio Lower Upper
228 100
226 28.4 22.5 33.7
229 20.0 15.8 23.8





#33

Chrysene

Concen: 0.211 ng

RT: 21.009 min Scan# 2

Delta R.T. -0.000 min

Lab File: BN035351.D

Acq: 27 Nov 2024 16:10

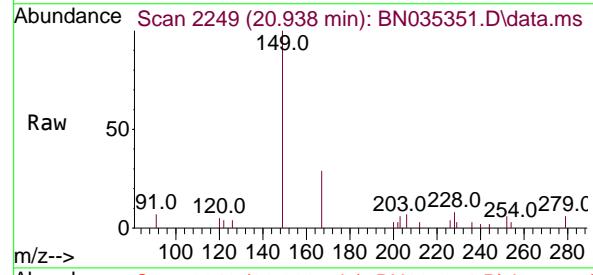
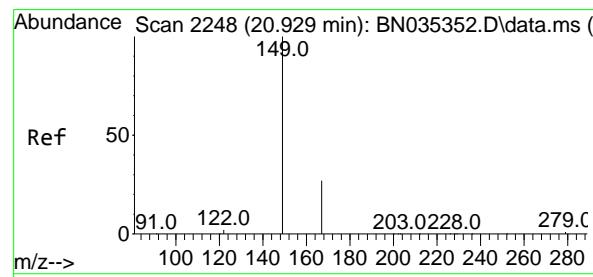
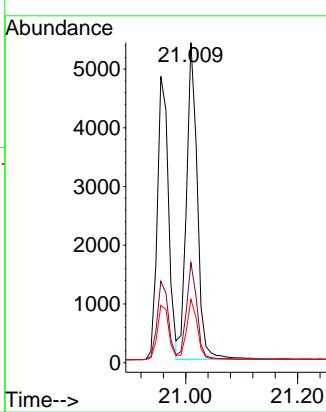
Instrument :

BNA_N

ClientSampleId :

SSTDICCO.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

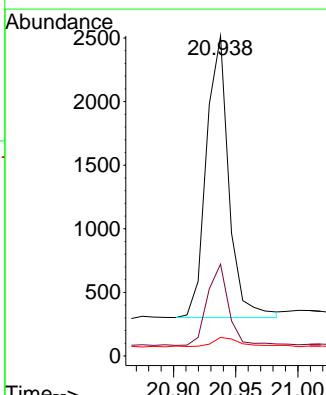
Tgt Ion:149 Resp: 2779

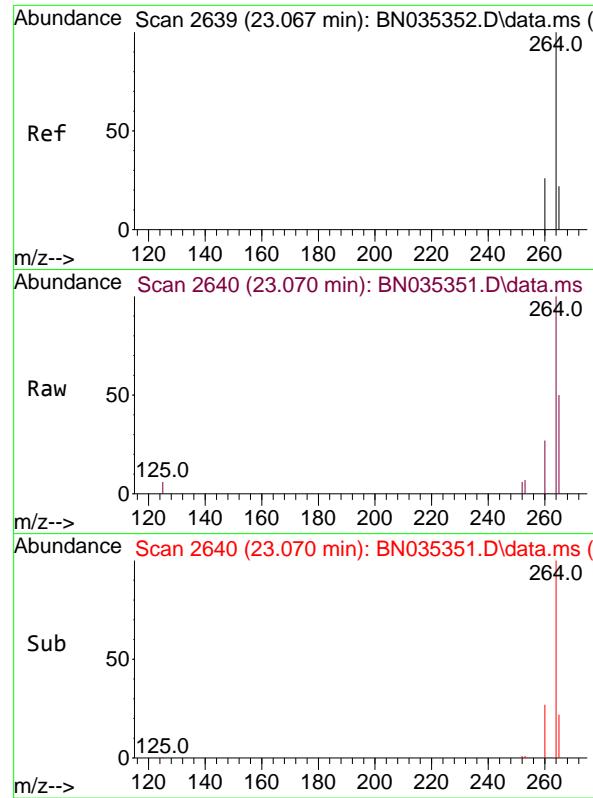
Ion Ratio Lower Upper

149 100

167 27.5 22.2 33.4

279 4.8 2.7 4.1#



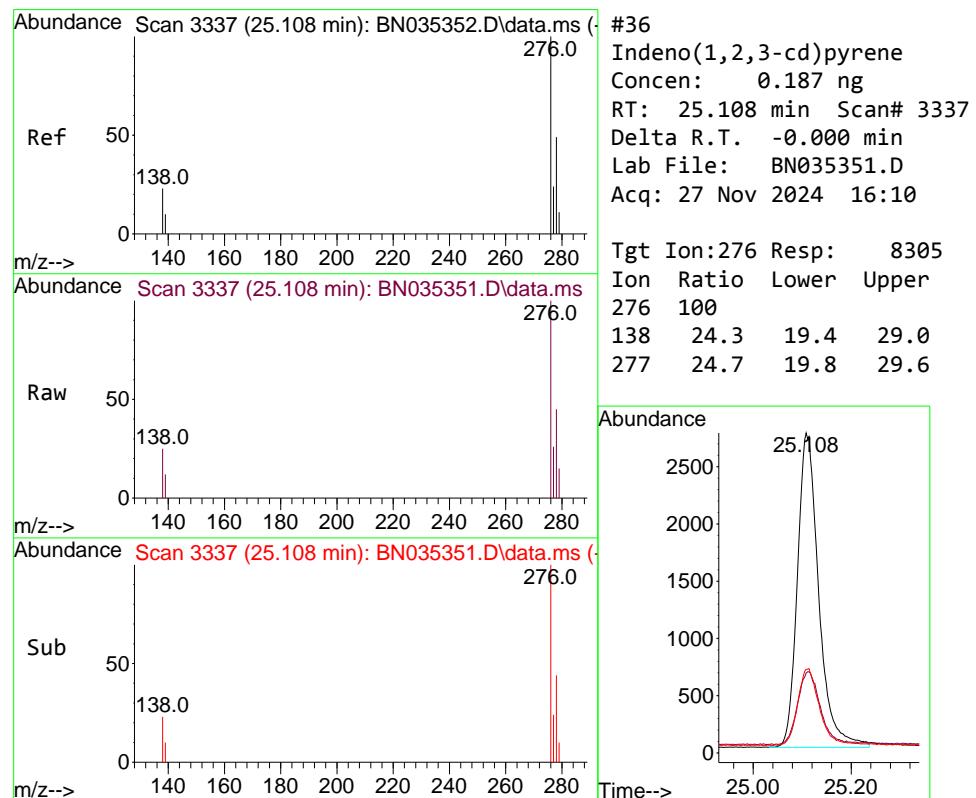
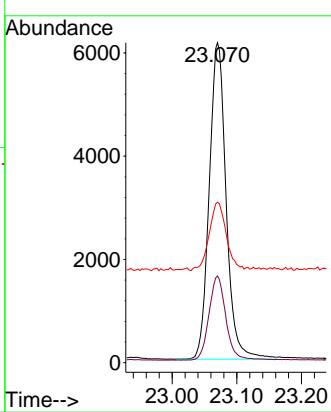


#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

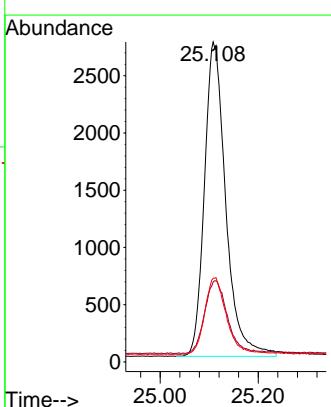
Manual Integrations
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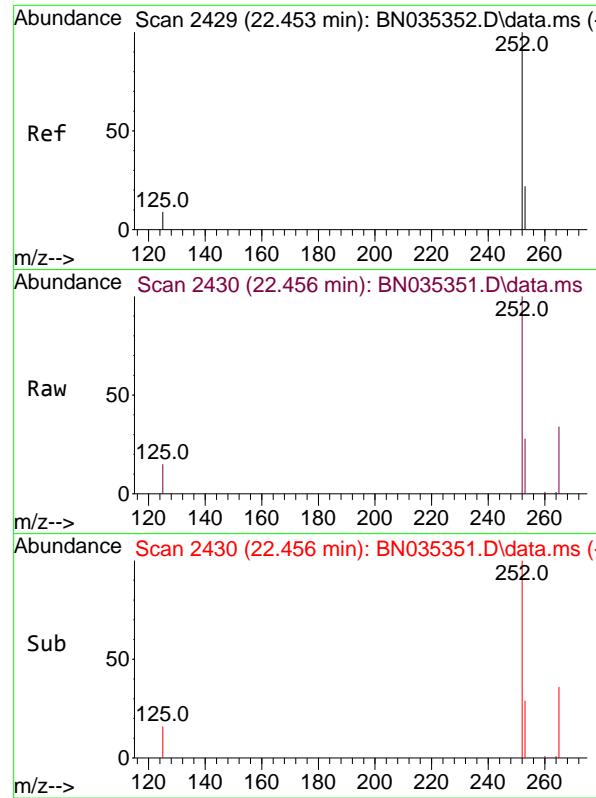
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.187 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



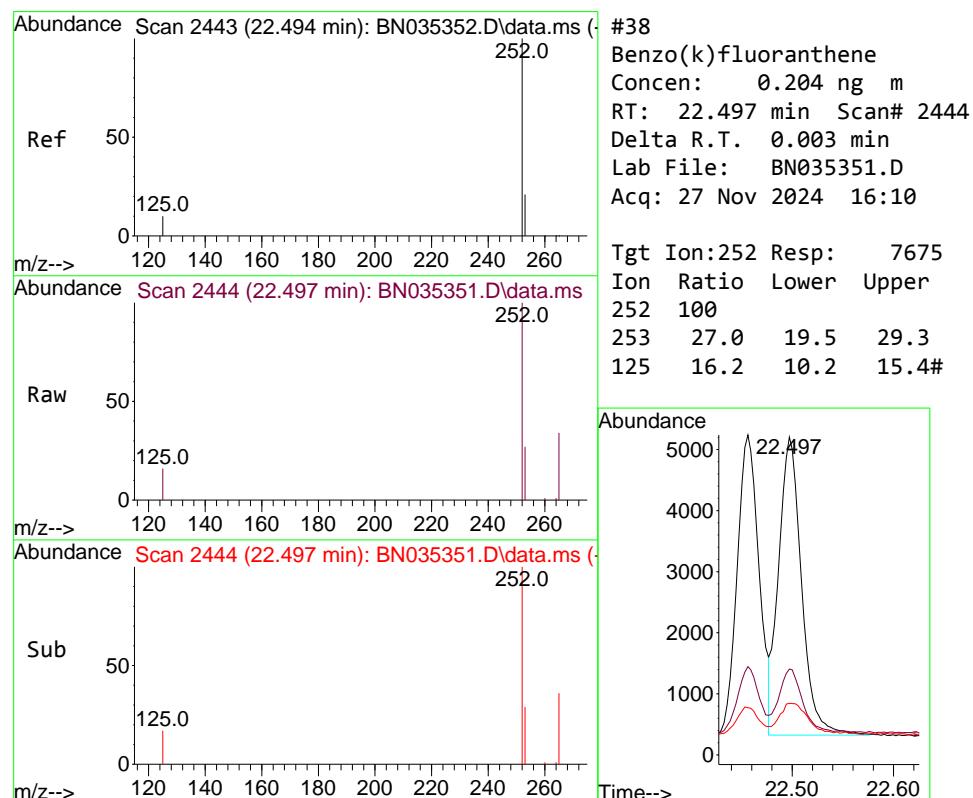
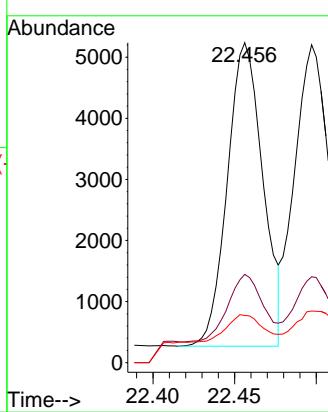


#37
Benzo(b)fluoranthene
Concen: 0.200 ng
RT: 22.456 min Scan# 2430
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

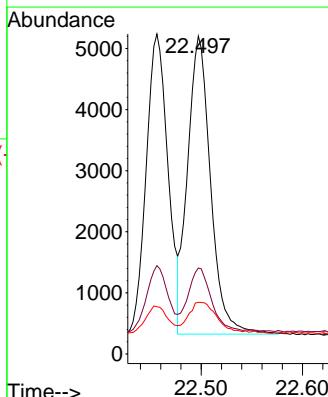
Manual Integrations
APPROVED

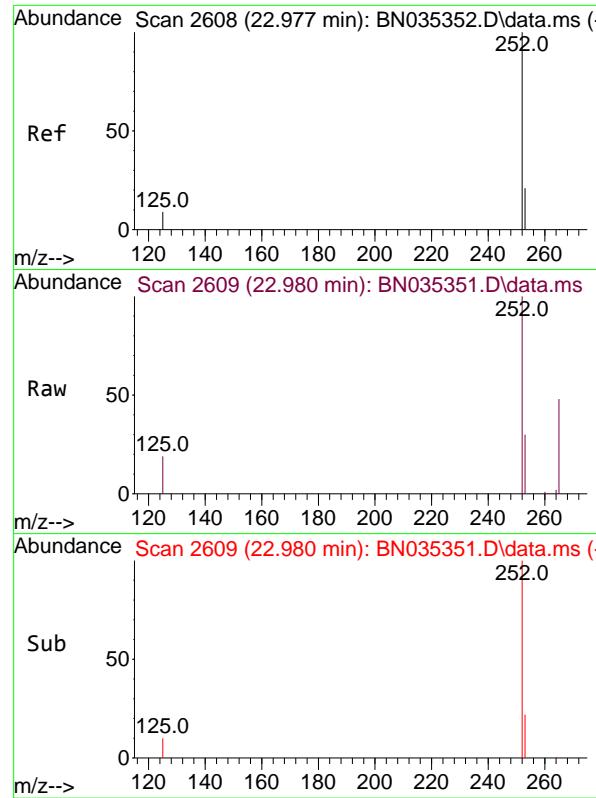
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#38
Benzo(k)fluoranthene
Concen: 0.204 ng
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#



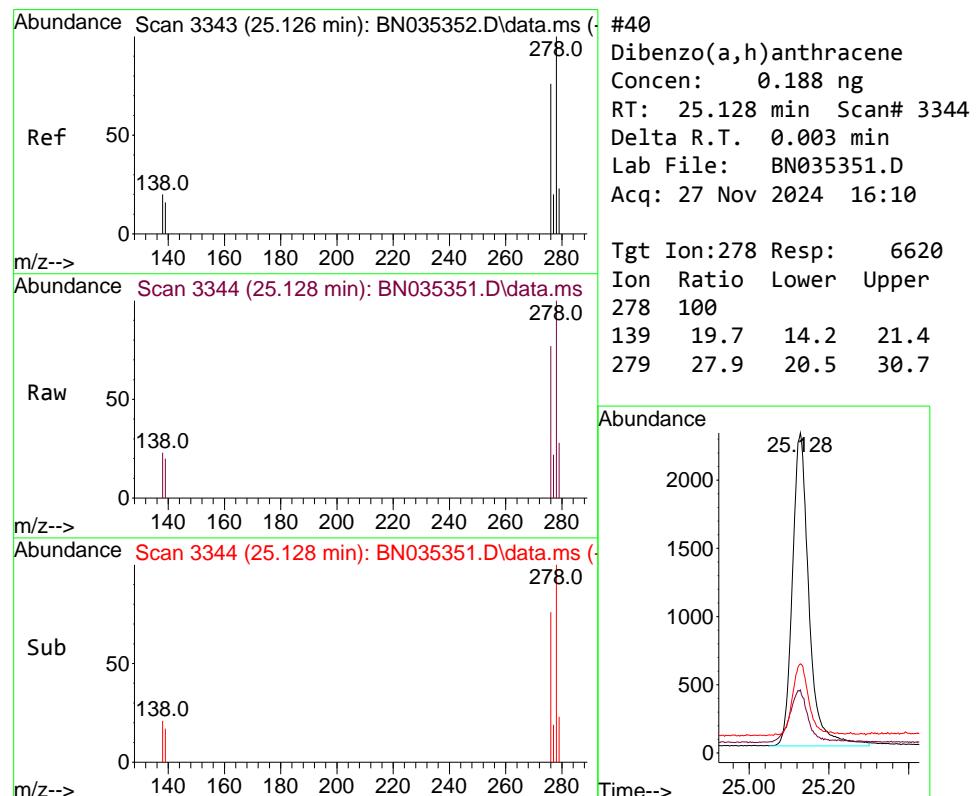
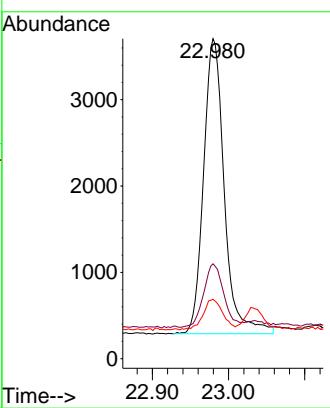


#39
Benzo(a)pyrene
Concen: 0.195 ng
RT: 22.980 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

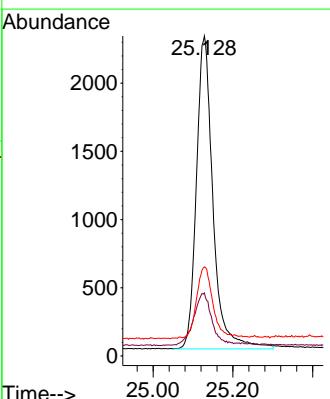
Manual Integrations
APPROVED

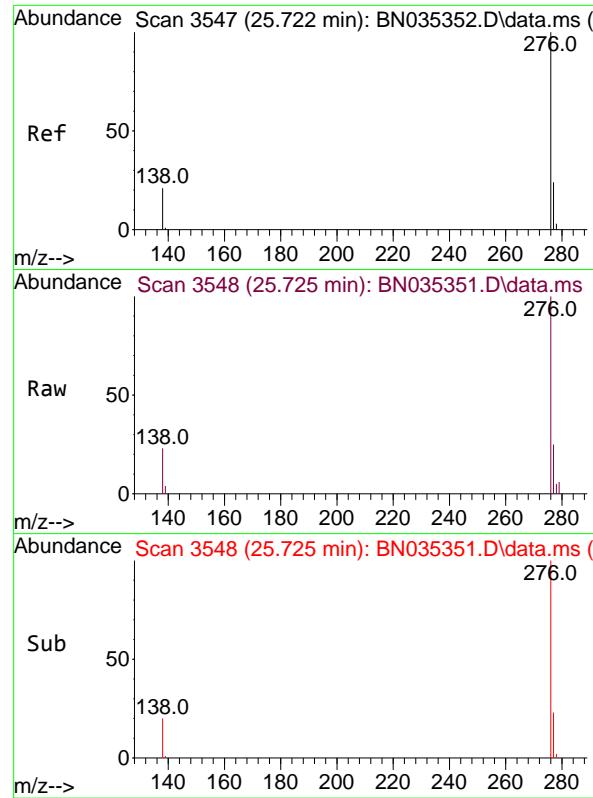
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



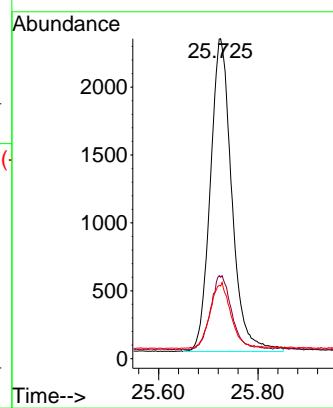


#41
Benzo(g,h,i)perylene
Concen: 0.184 ng
RT: 25.725 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

Instrument : BNA_N
ClientSampleId : SSTDICCO.2

Manual Integrations
APPROVED

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



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

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

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

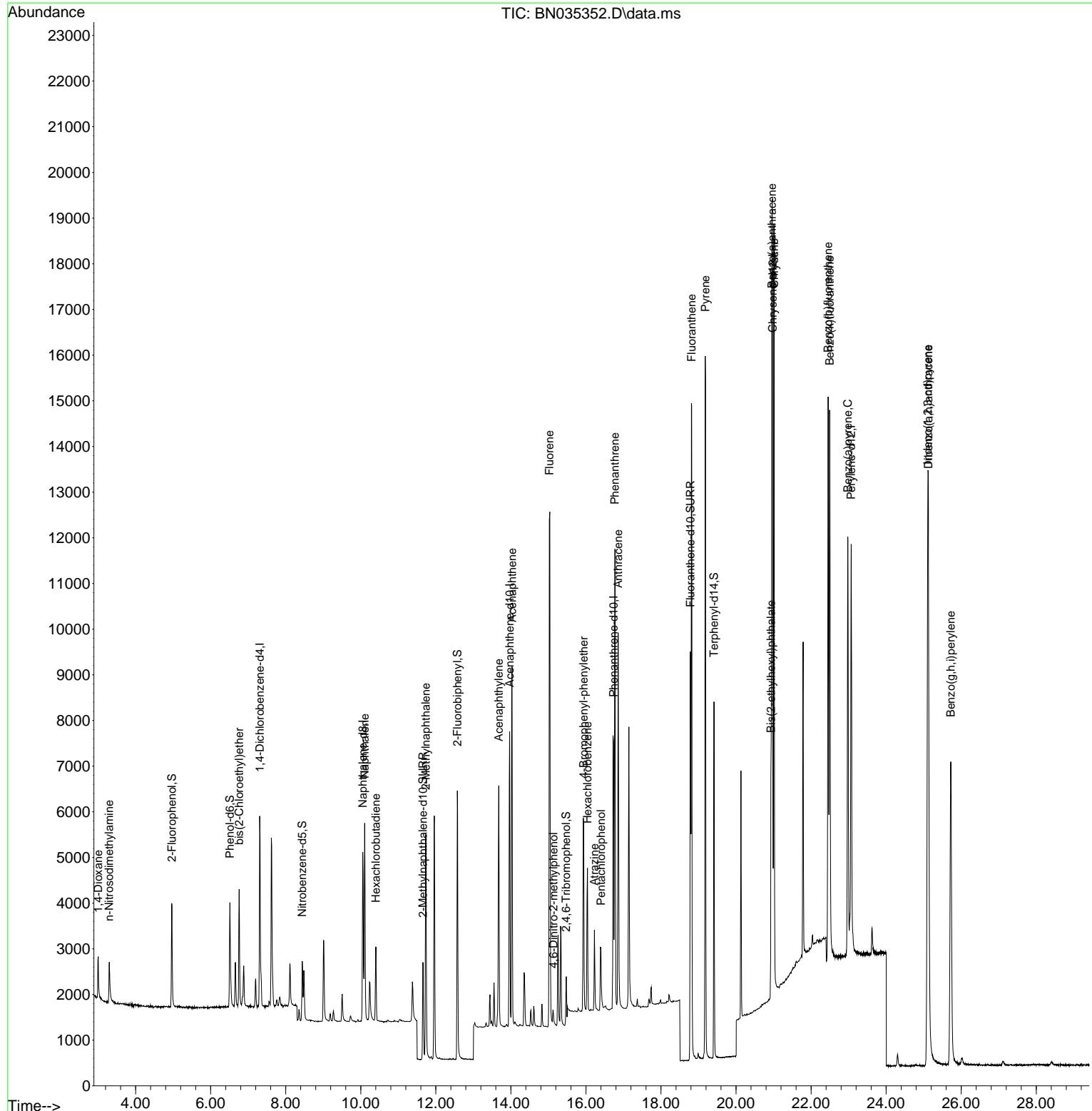
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112724\
 Data File : BN035352.D
 Acq On : 27 Nov 2024 16:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

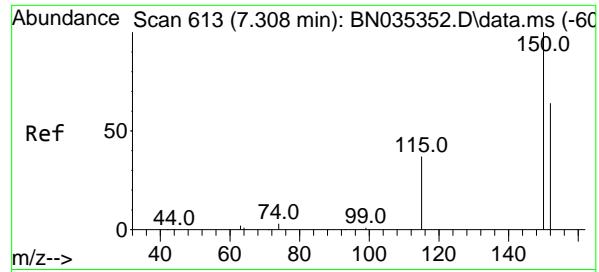
Quant Time: Nov 27 22:52:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

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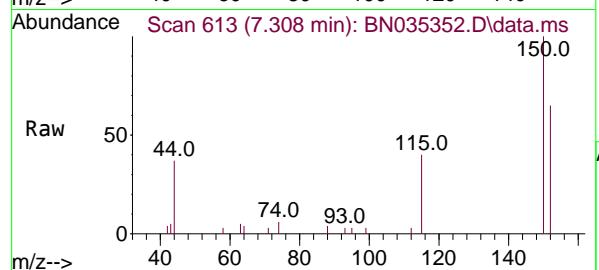
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024





#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

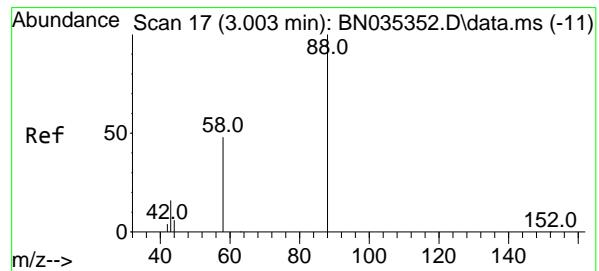
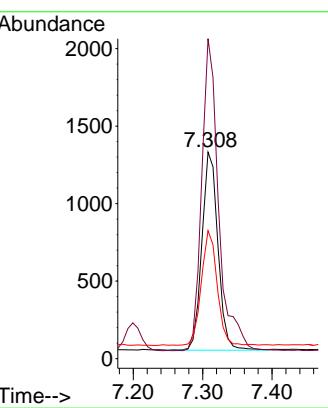
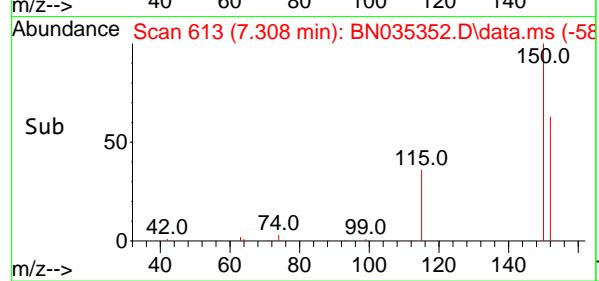
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



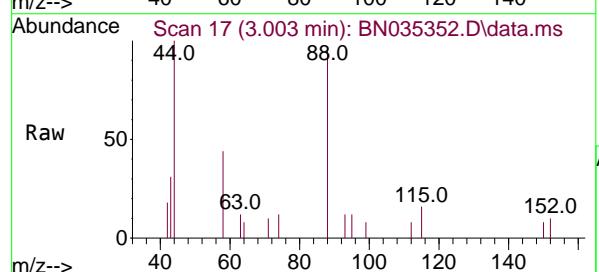
Tgt Ion:152 Resp: 2043
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4

Manual Integrations APPROVED

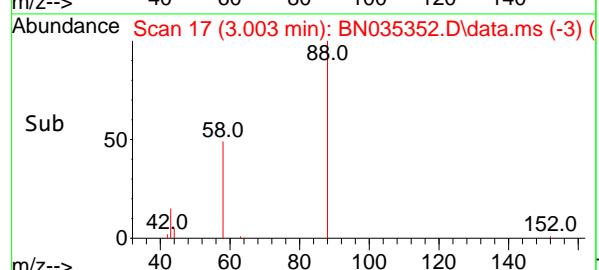
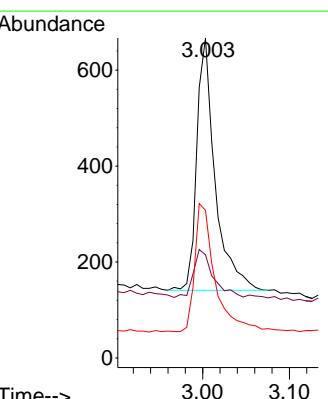
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

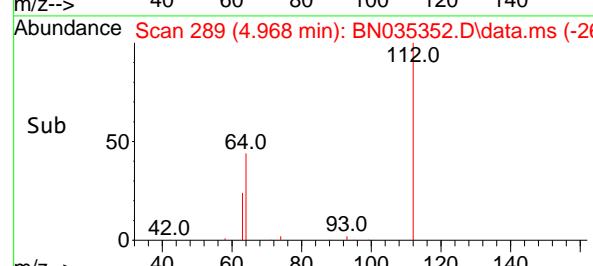
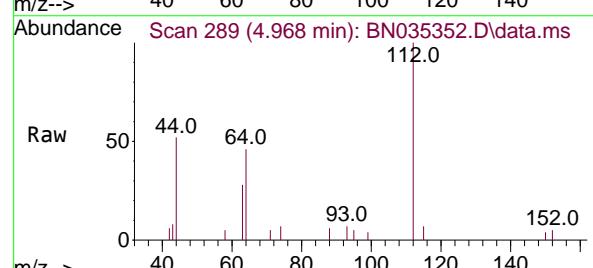
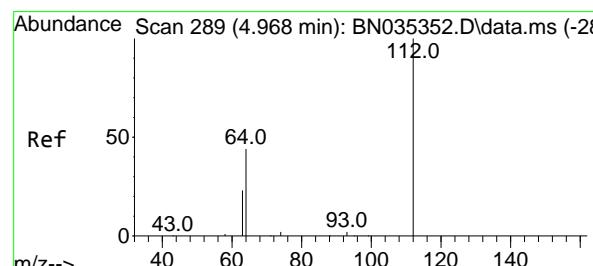
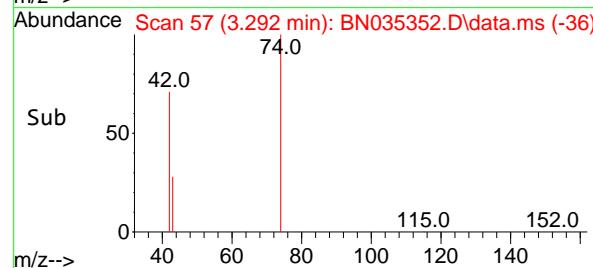
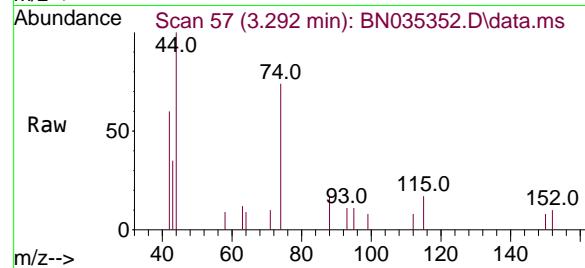
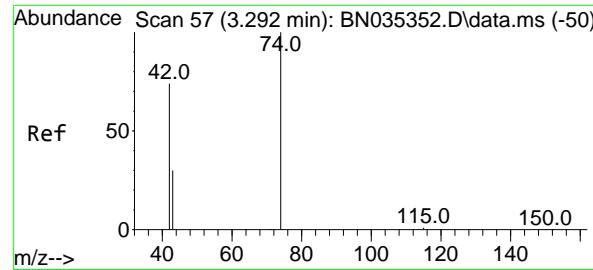


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



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

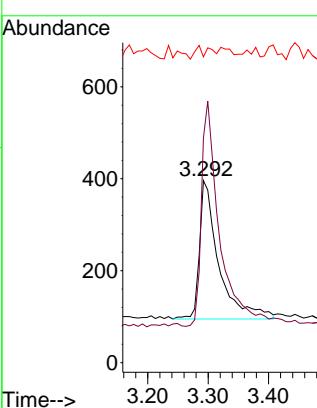
ClientSampleId :

SSTDICCC0.4

**Manual Integrations
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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

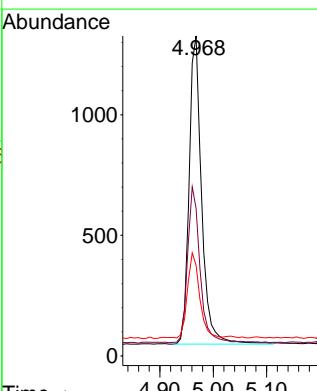
Tgt Ion:112 Resp: 2085

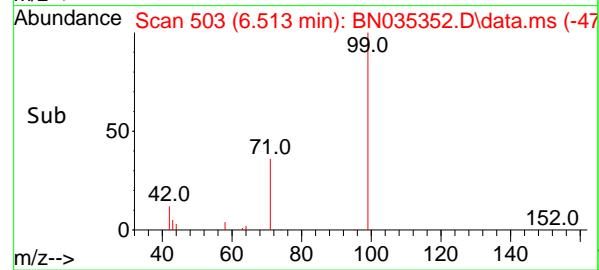
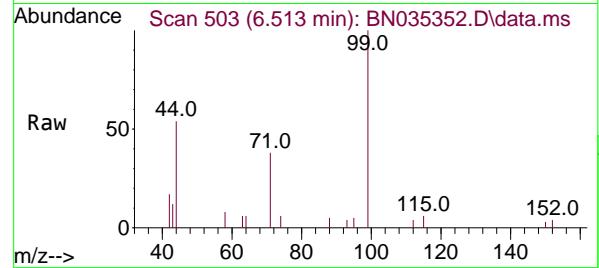
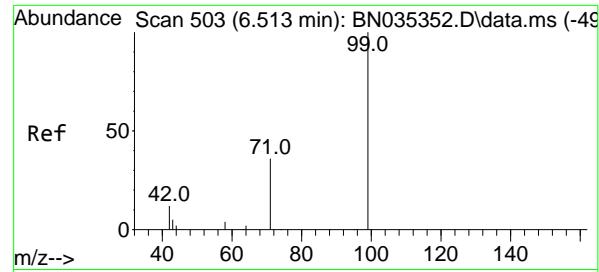
Ion Ratio Lower Upper

112 100

64 49.8 39.8 59.8

63 26.3 21.0 31.6



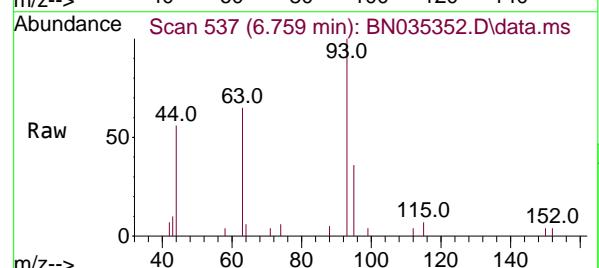
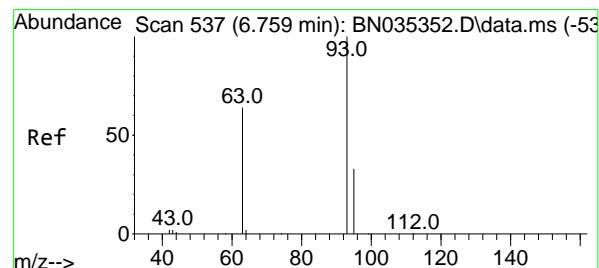
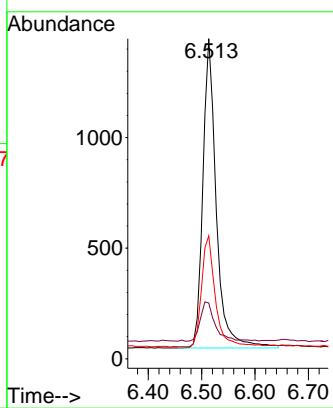


#5
 Phenol-d6
 Concen: 0.375 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

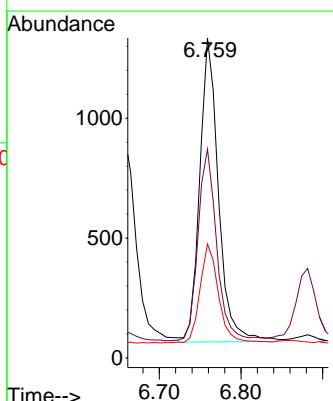
Manual Integrations
APPROVED

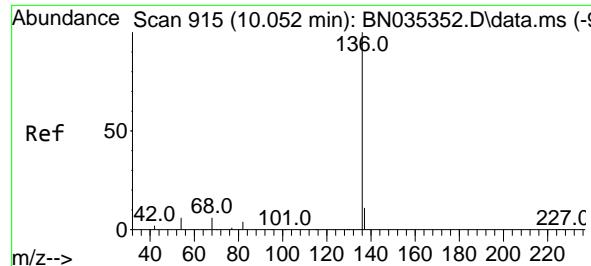
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



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

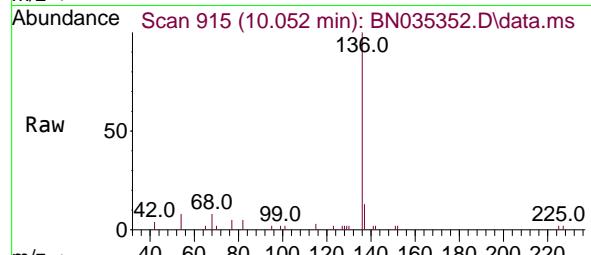
Tgt Ion: 93 Resp: 2032
 Ion Ratio Lower Upper
 93 100
 63 63.0 50.4 75.6
 95 32.1 25.7 38.5





#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

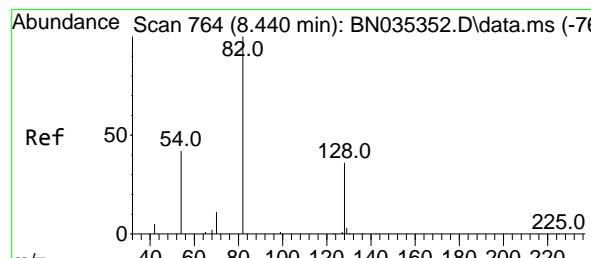
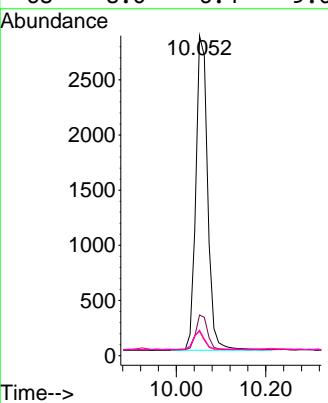
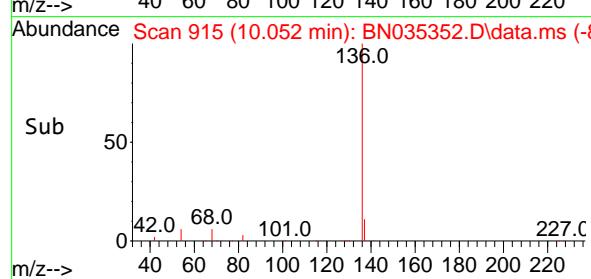
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



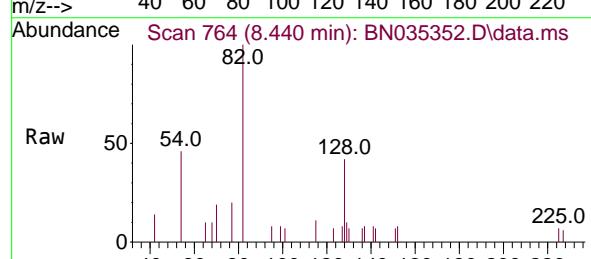
Tgt Ion:136 Resp: 5229
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 7.6 6.1 9.1
68 8.0 6.4 9.6

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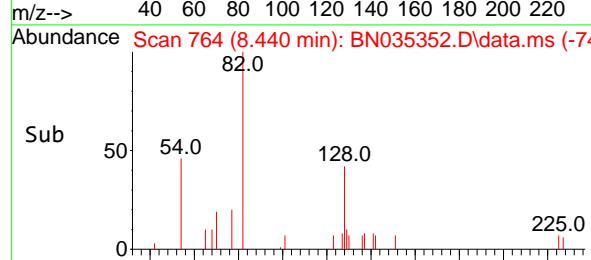
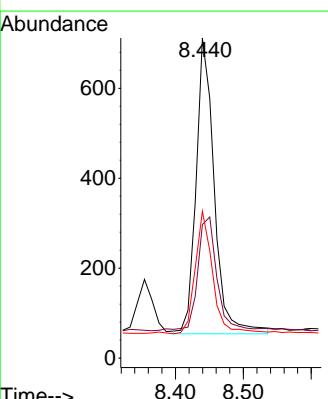
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

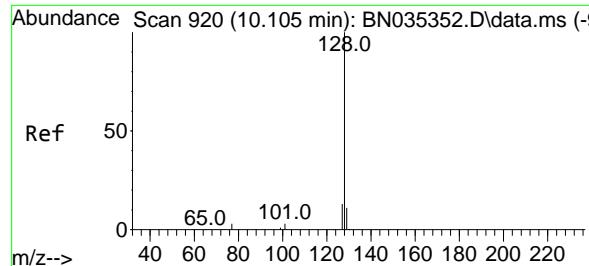


#8
Nitrobenzene-d5
Concen: 0.270 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



Tgt Ion: 82 Resp: 1228
Ion Ratio Lower Upper
82 100
128 41.7 33.4 50.0
54 45.9 36.7 55.1





#9

Naphthalene

Concen: 0.401 ng

RT: 10.105 min Scan# 9

Delta R.T. 0.000 min

Lab File: BN035352.D

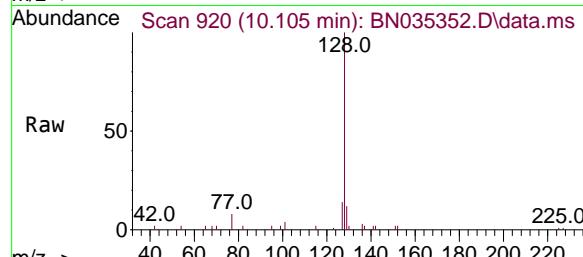
Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:128 Resp: 5479

Ion Ratio Lower Upper

128 100

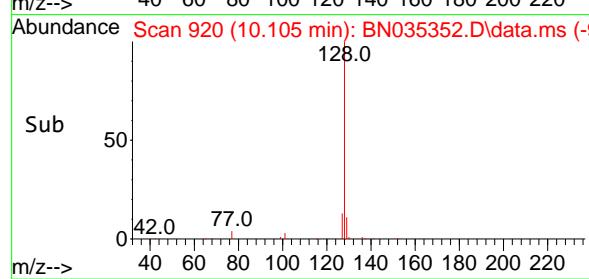
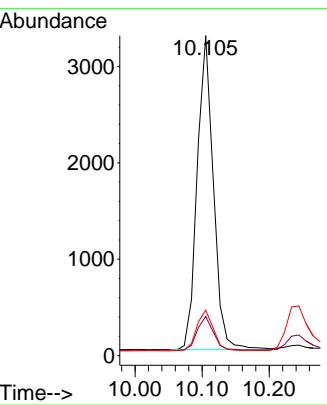
129 12.2 9.8 14.6

127 14.3 11.4 17.2

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



#10

Hexachlorobutadiene

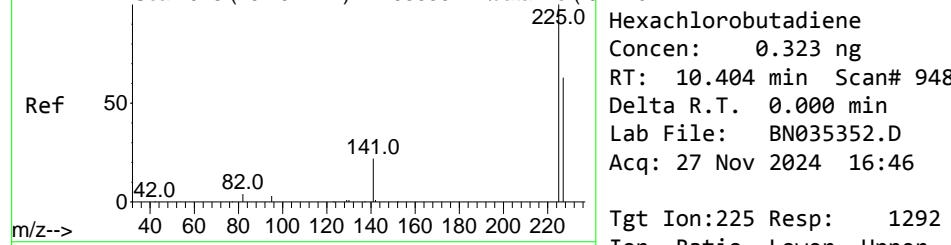
Concen: 0.323 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46



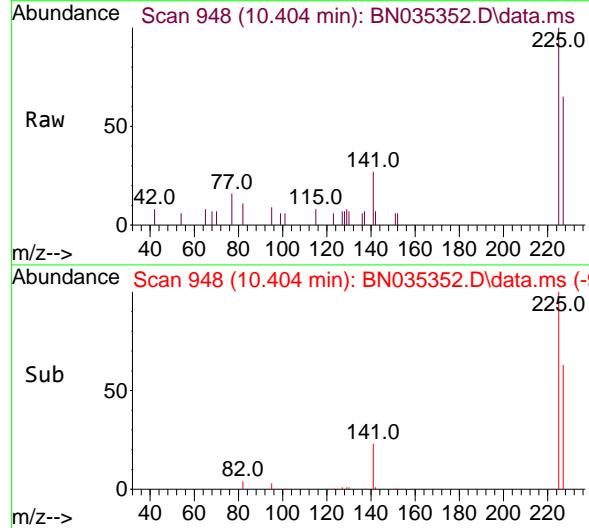
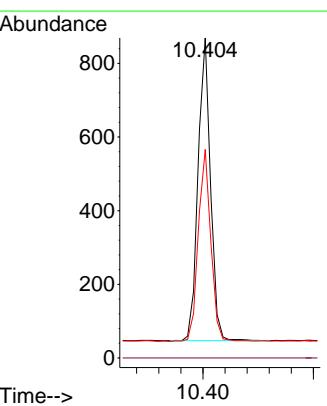
Tgt Ion:225 Resp: 1292

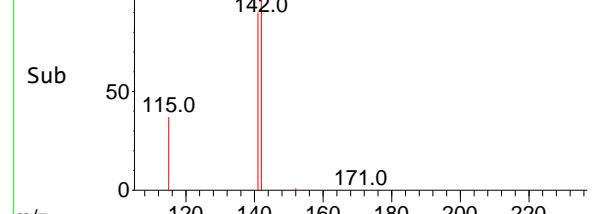
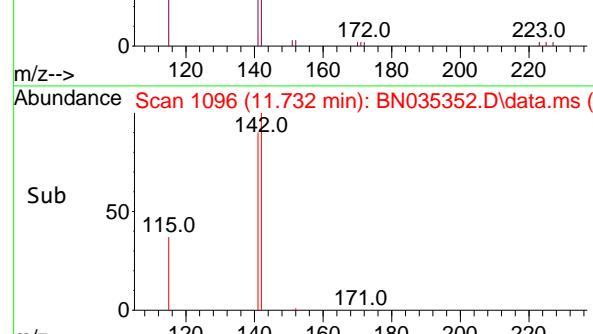
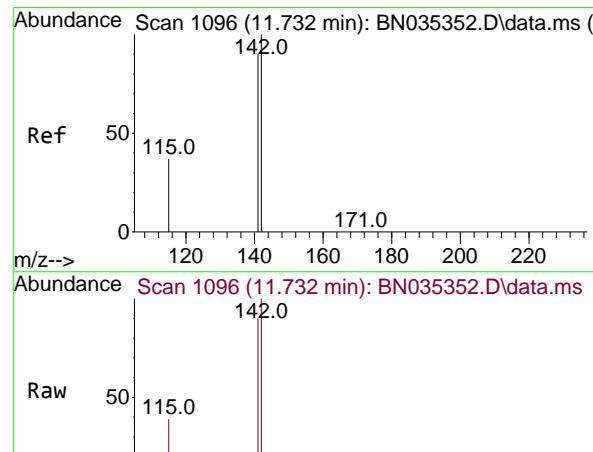
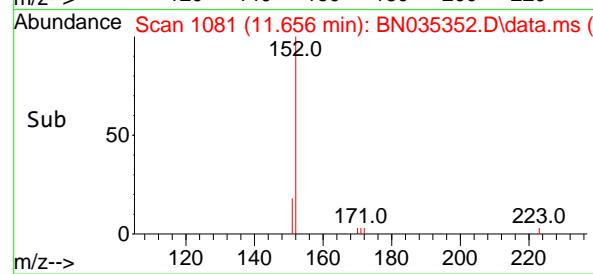
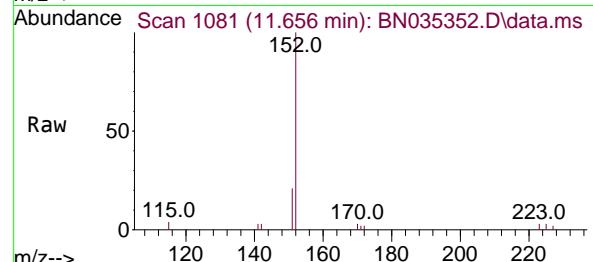
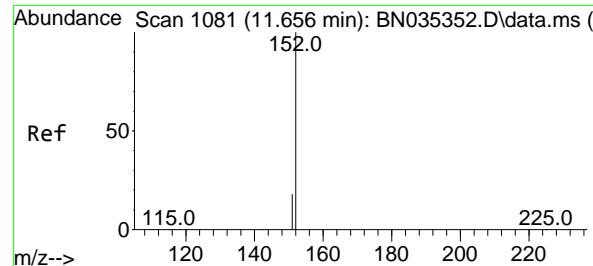
Ion Ratio Lower Upper

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# 1081

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

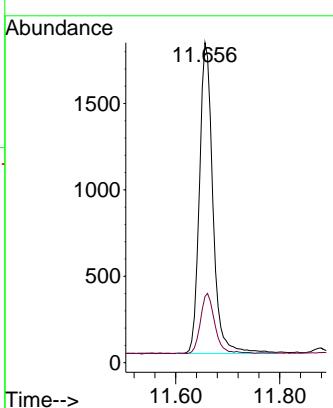
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

**Manual Integrations
APPROVED**

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


#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

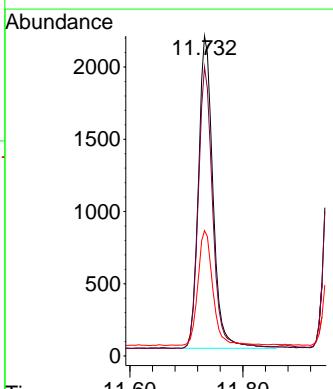
Tgt Ion:142 Resp: 3867

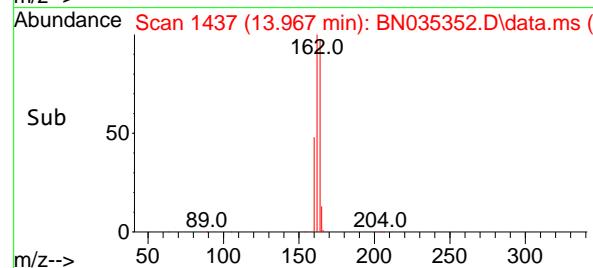
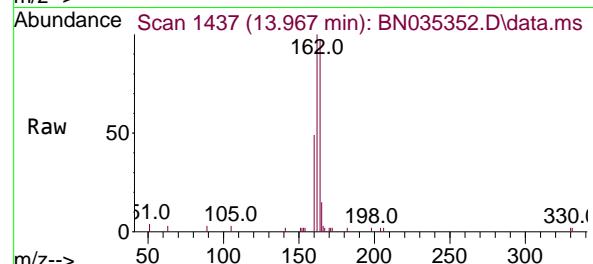
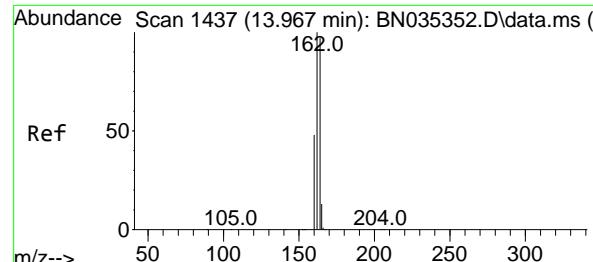
Ion Ratio Lower Upper

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# 1437

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

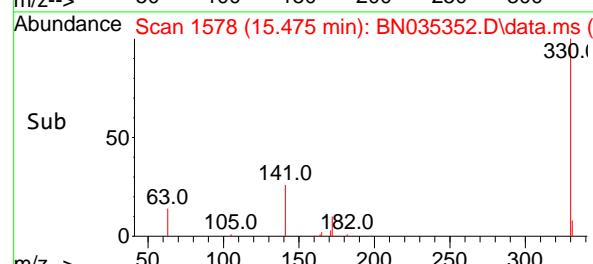
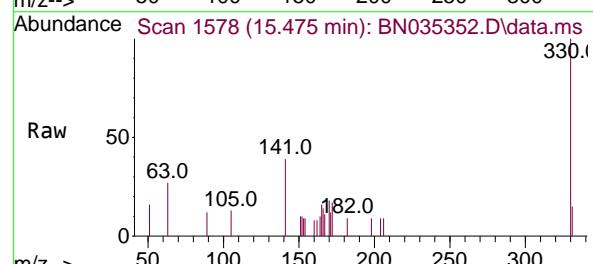
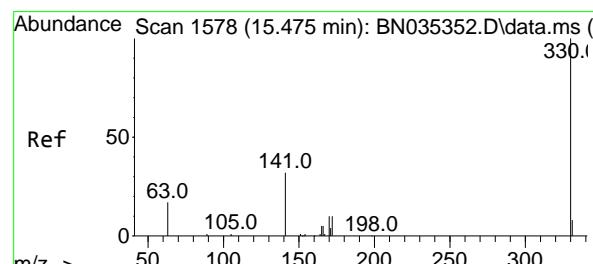
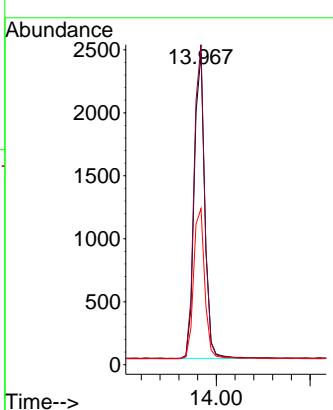
ClientSampleId :

SSTDICCC0.4

**Manual Integrations
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Supervised By :mohammad ahmed 12/03/2024



#14

2,4,6-Tribromophenol

Concen: 0.356 ng

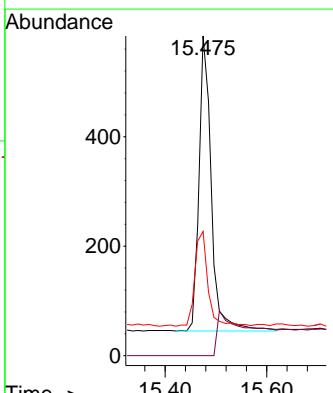
RT: 15.475 min Scan# 1578

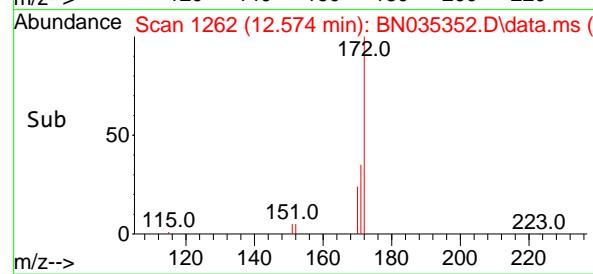
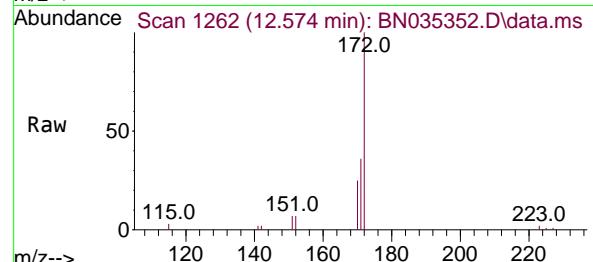
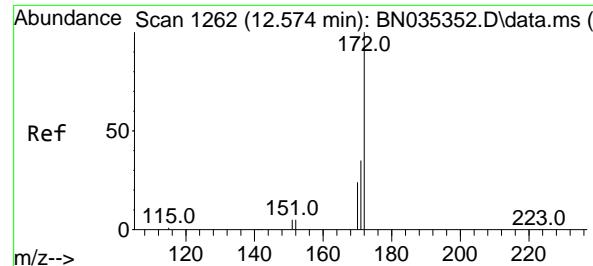
Delta R.T. 0.000 min

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

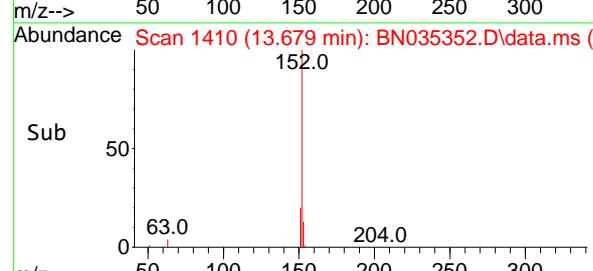
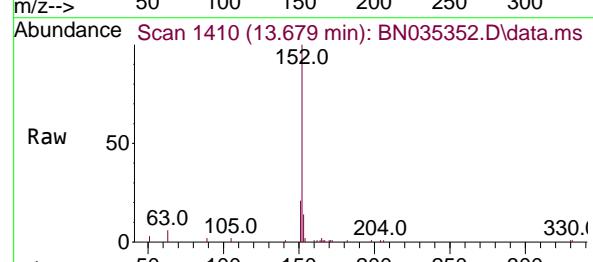
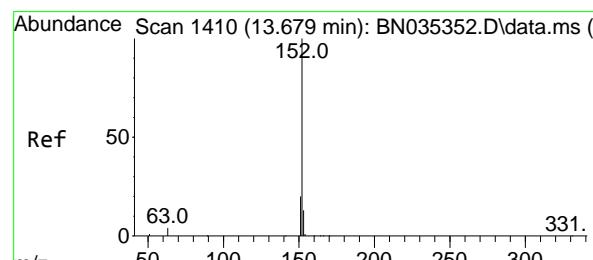
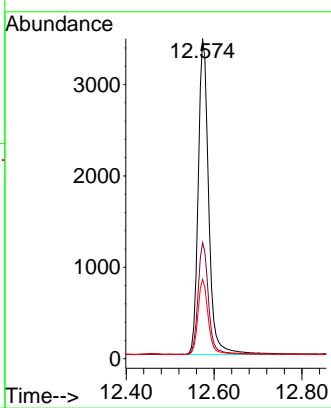




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46
ClientSampleId : SSTDICCC0.4

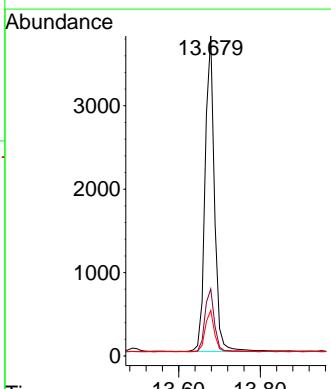
Manual Integrations APPROVED

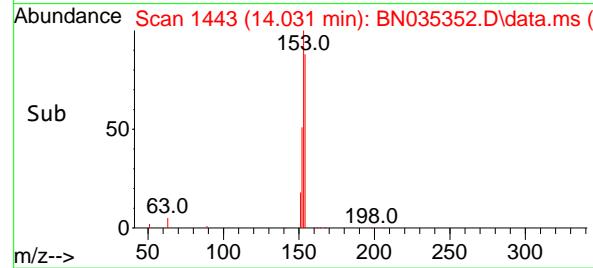
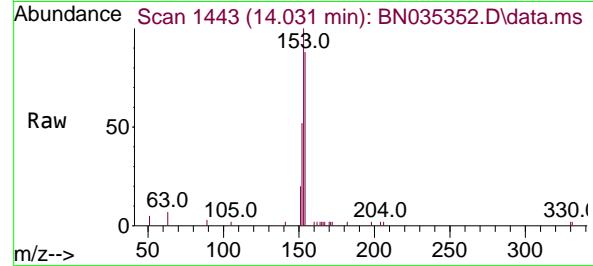
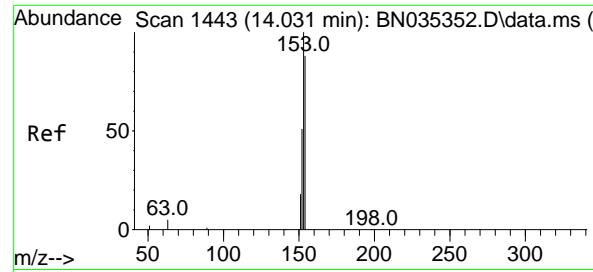
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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# 1443

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

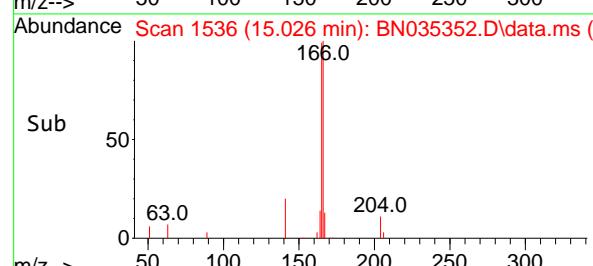
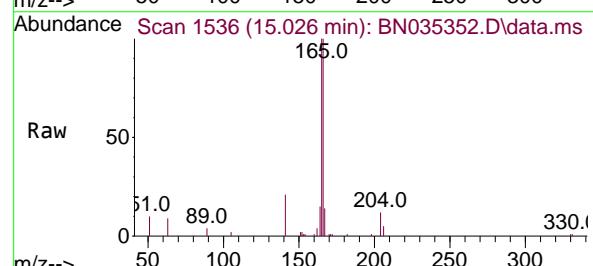
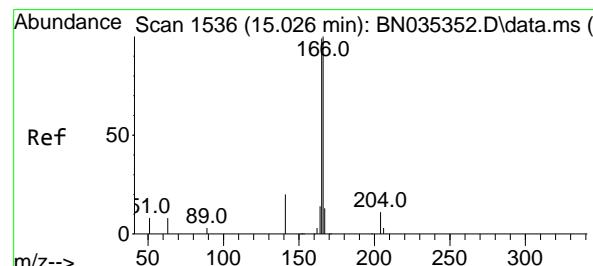
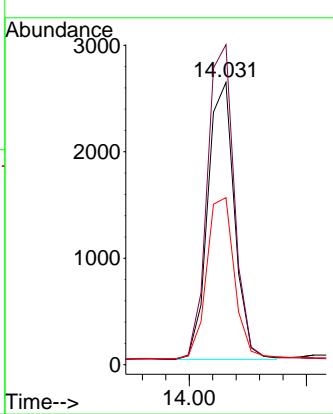
ClientSampleId :

SSTDICCC0.4

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Supervised By :mohammad ahmed 12/03/2024



#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

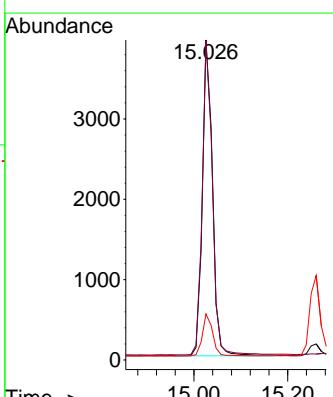
Tgt Ion:166 Resp: 5863

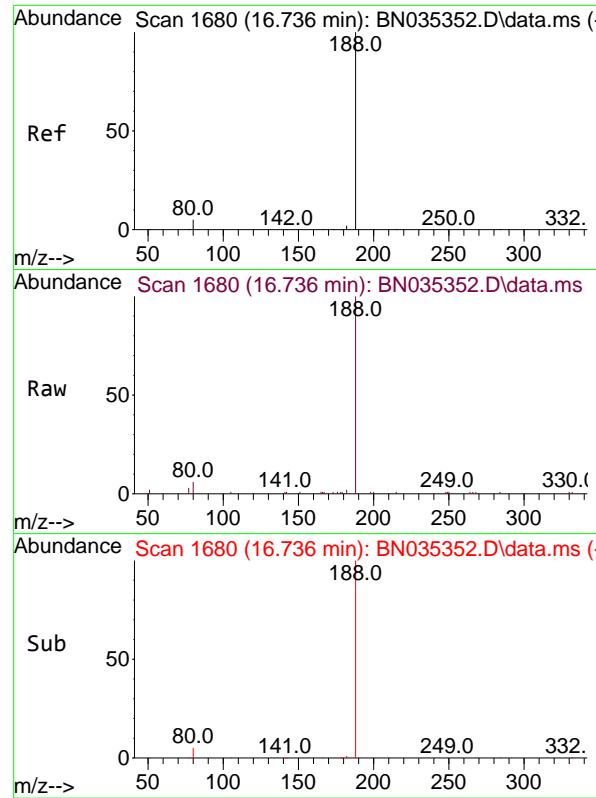
Ion Ratio Lower Upper

166 100

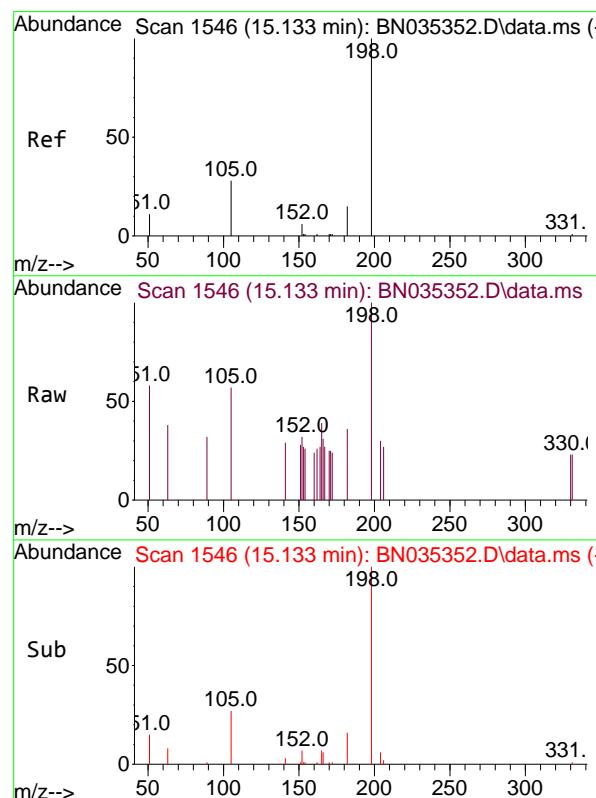
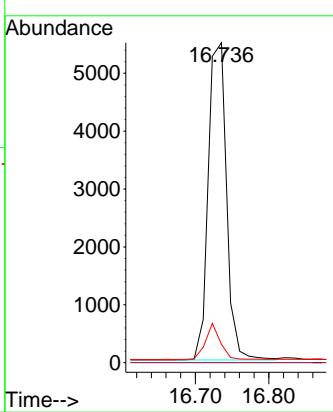
165 99.6 79.7 119.5

167 13.5 10.8 16.2

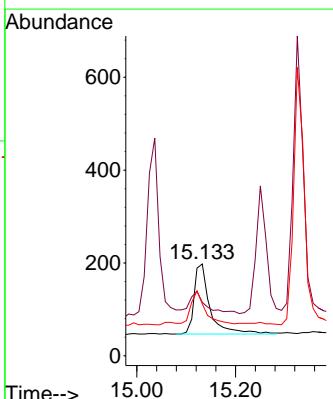


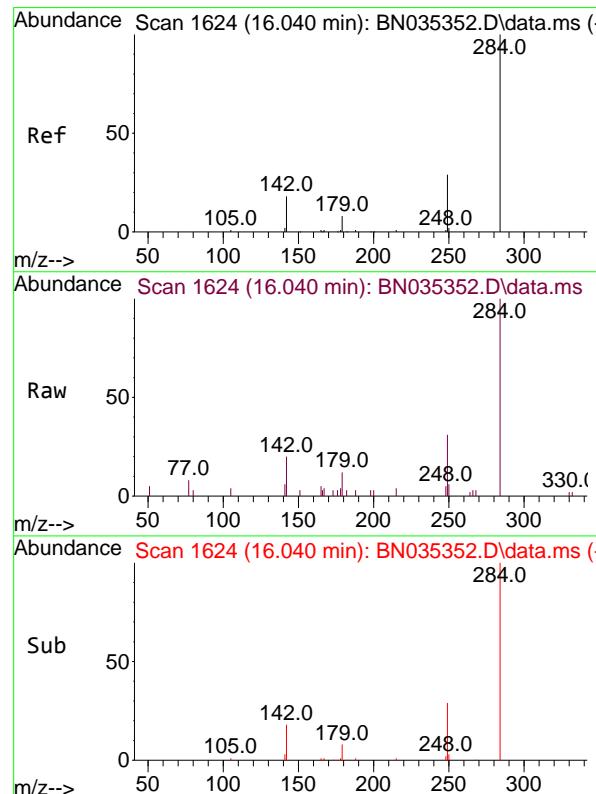
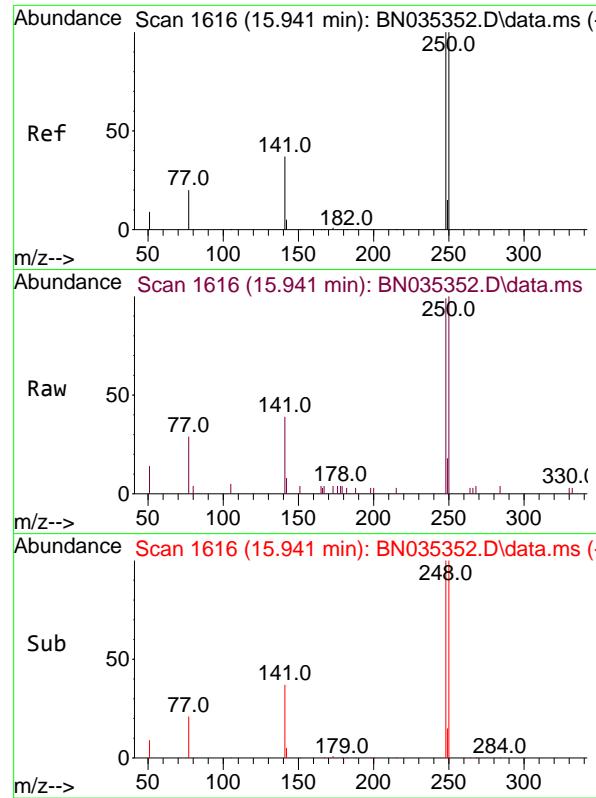


#19

Phenanthrene-d10
Concen: 0.400 ngRT: 16.736 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4**Manual Integrations
APPROVED**Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

#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 16:46Tgt Ion:198 Resp: 337
Ion Ratio Lower Upper
198 100
51 58.1 46.5 69.7
105 56.6 45.3 67.9

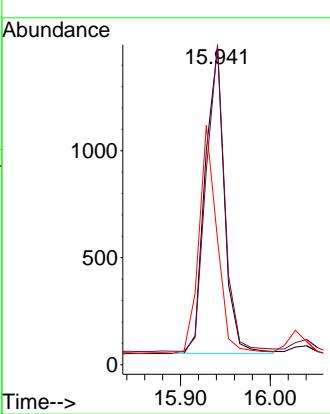


#21
4-Bromophenyl-phenylether
Concen: 0.355 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

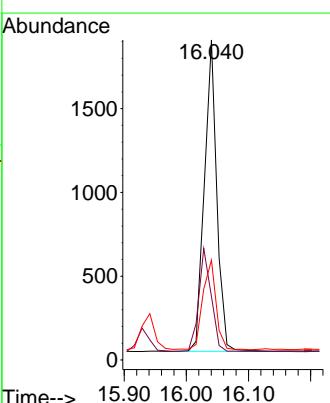
Manual Integrations APPROVED

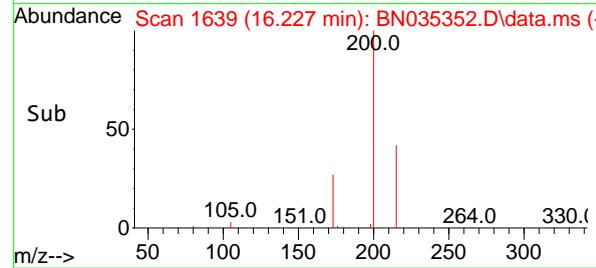
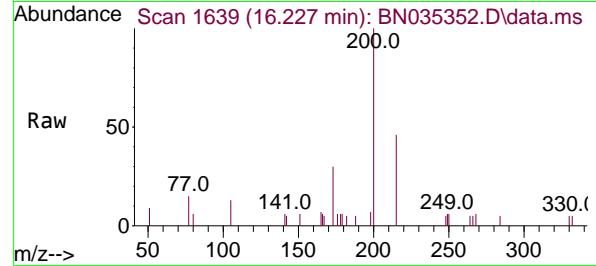
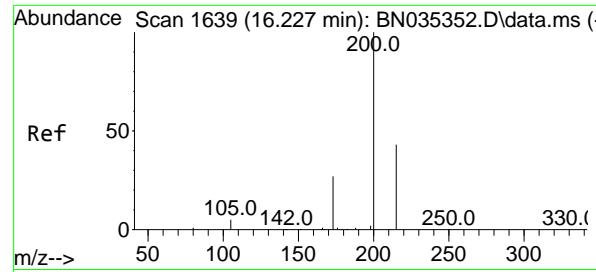
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:284 Resp: 2590
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.7 24.6 36.8





#23

Atrazine

Concen: 0.269 ng

RT: 16.227 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:200 Resp: 146:

Ion Ratio Lower Upper

200 100

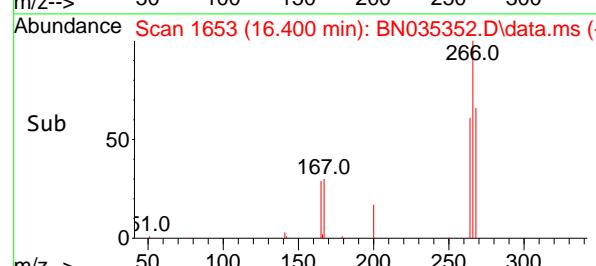
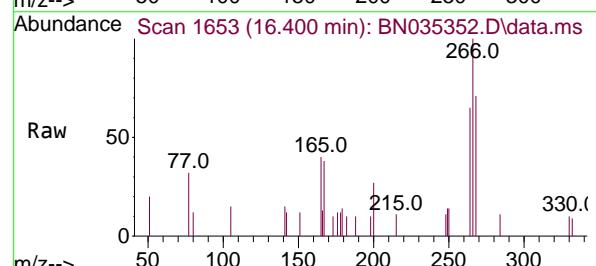
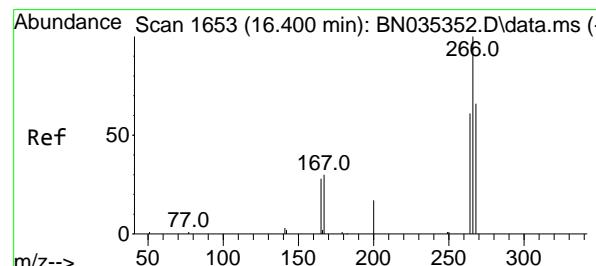
173 30.1 24.1 36.1

215 46.1 36.9 55.3

Manual Integrations**APPROVED**

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

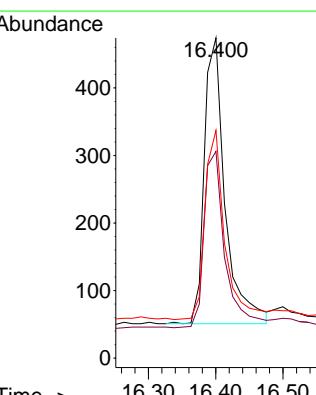
Tgt Ion:266 Resp: 906

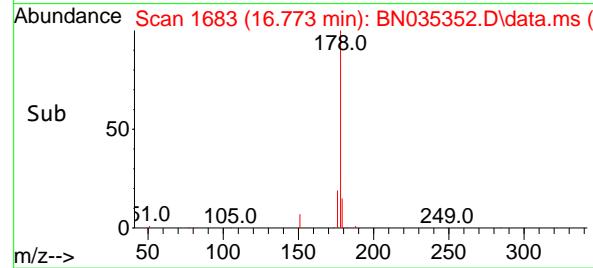
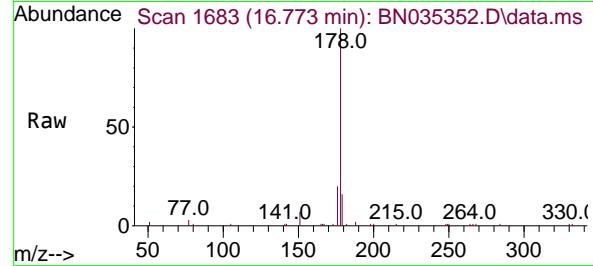
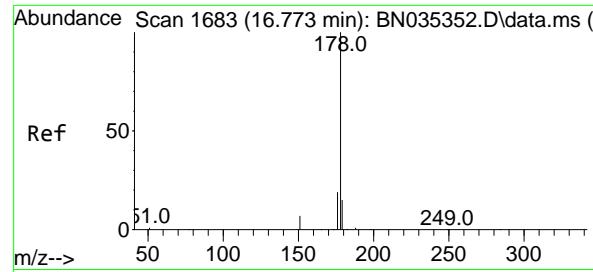
Ion Ratio Lower Upper

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

Instrument :

BNA_N

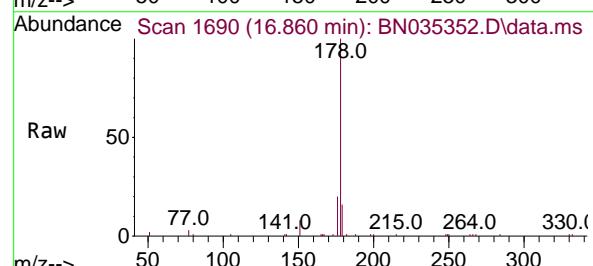
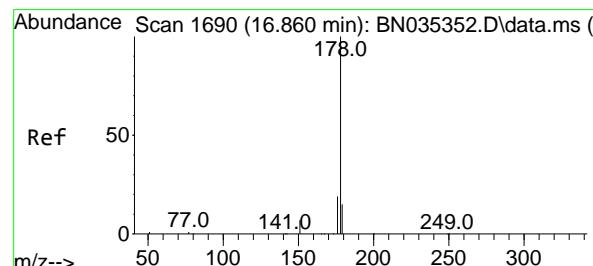
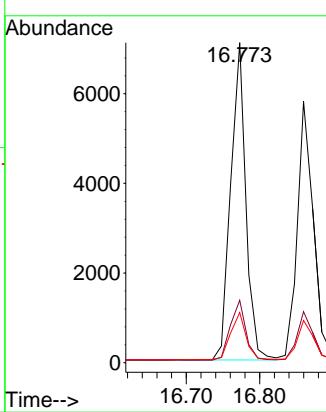
ClientSampleId :

SSTDICCC0.4

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

Supervised By :mohammad ahmed 12/03/2024



#26

Anthracene

Concen: 0.389 ng

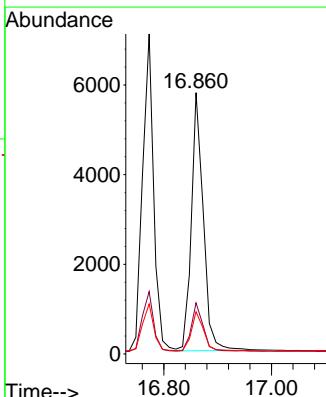
RT: 16.860 min Scan# 1690

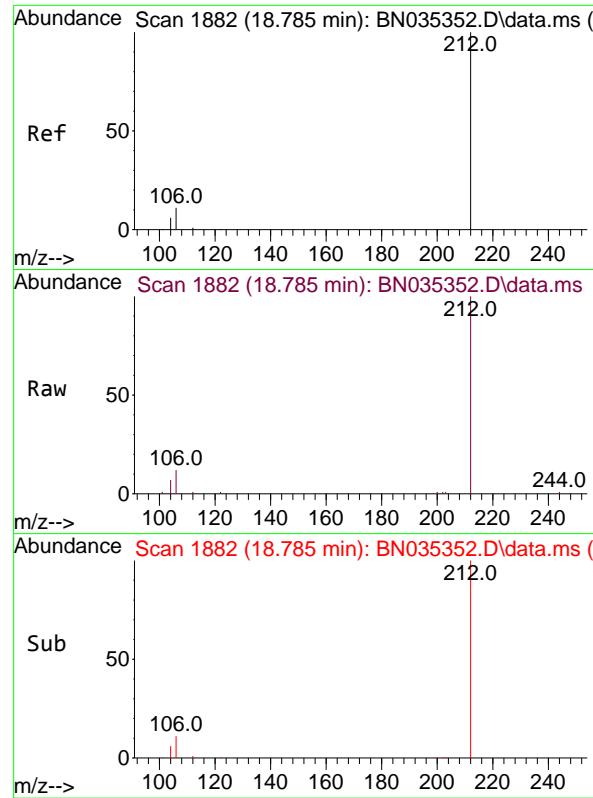
Delta R.T. 0.000 min

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



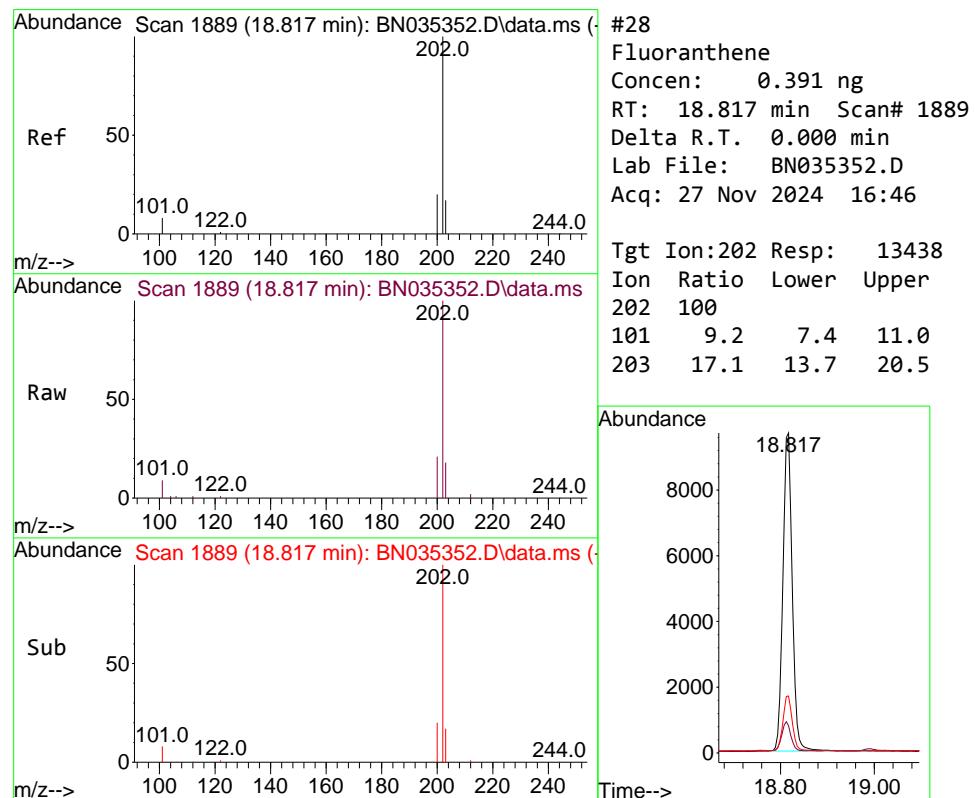
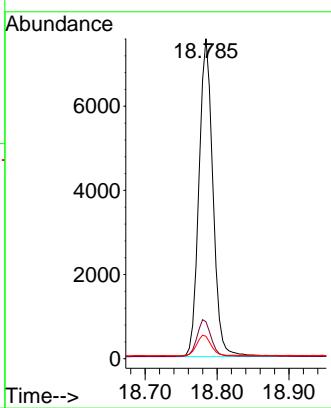


#27
 Fluoranthene-d10
 Concen: 0.352 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

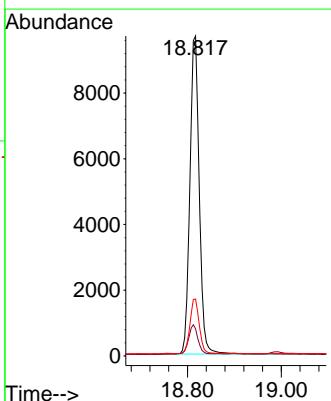
Manual Integrations
APPROVED

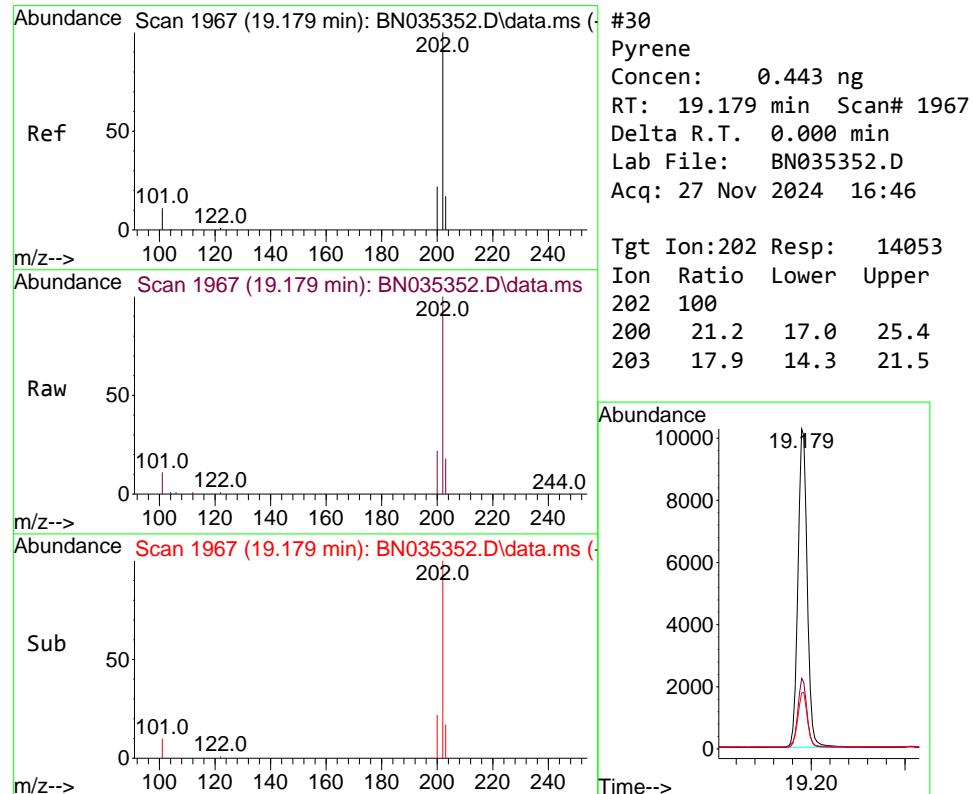
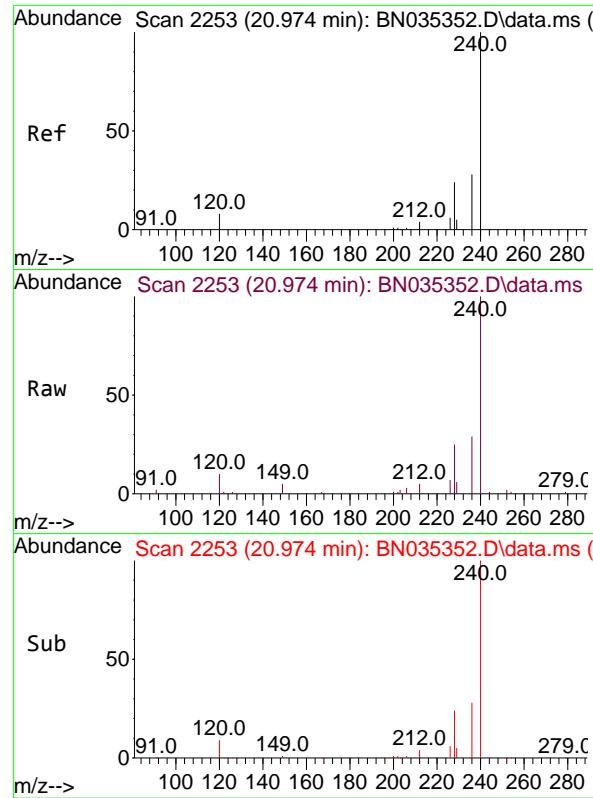
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



#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



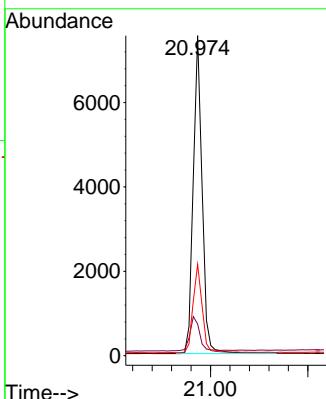


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument : BNA_N
ClientSampleId : SSTDICCC0.4

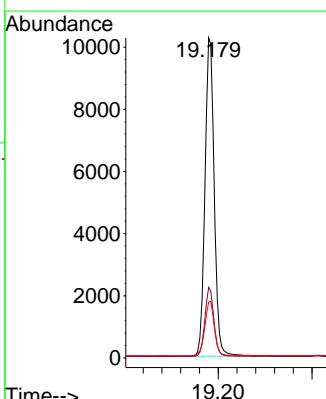
Manual Integrations APPROVED

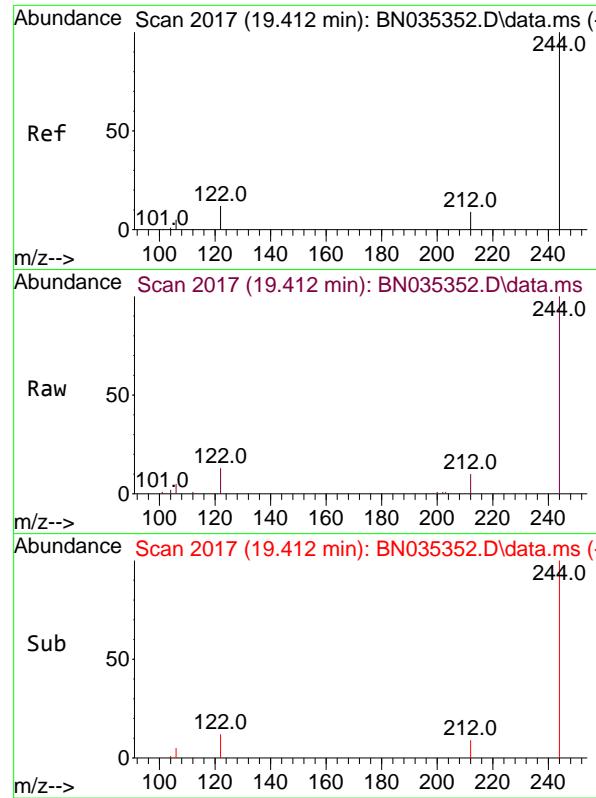
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



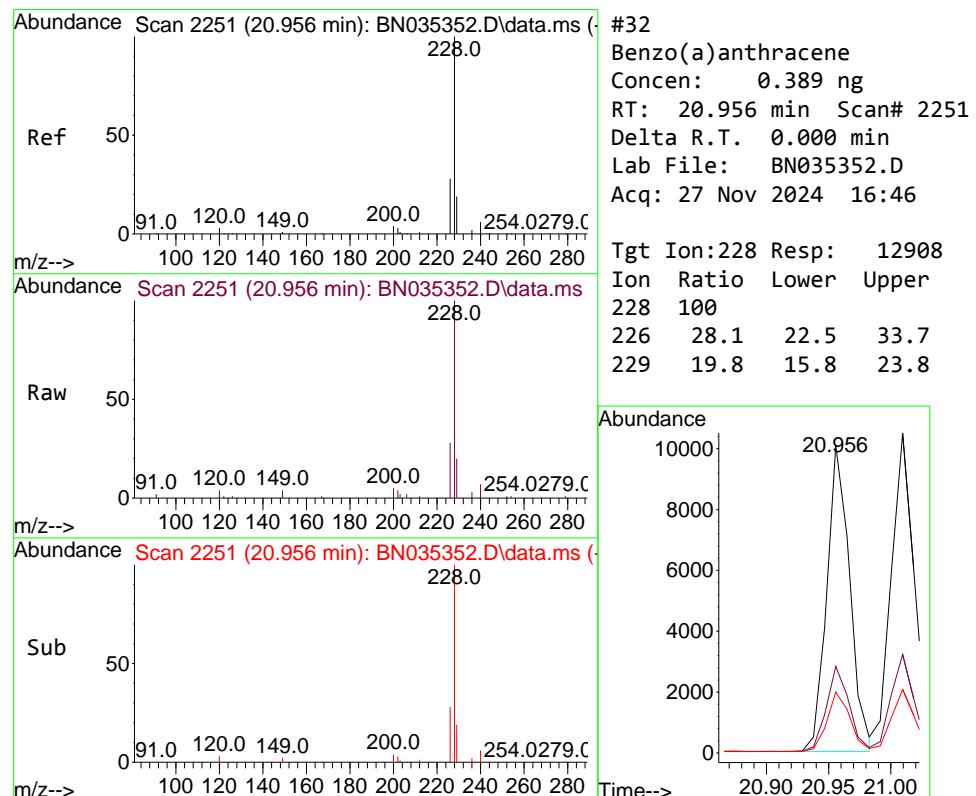
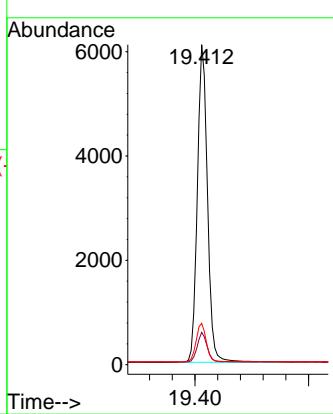


#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument : BNA_N
ClientSampleId : SSTDICCC0.4

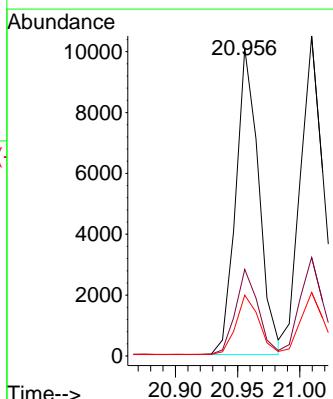
Manual Integrations
APPROVED

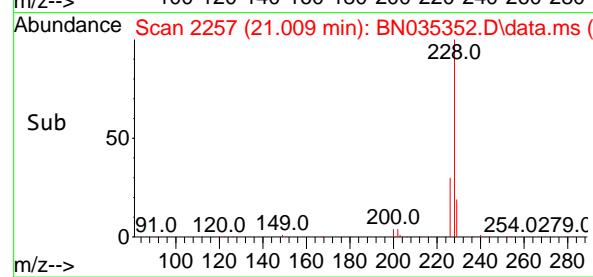
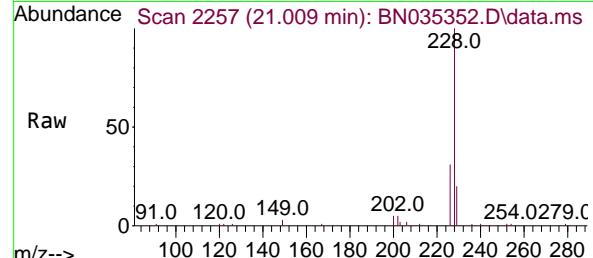
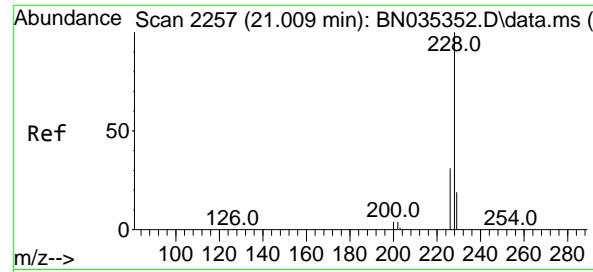
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

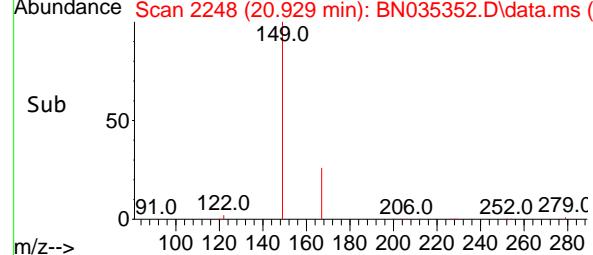
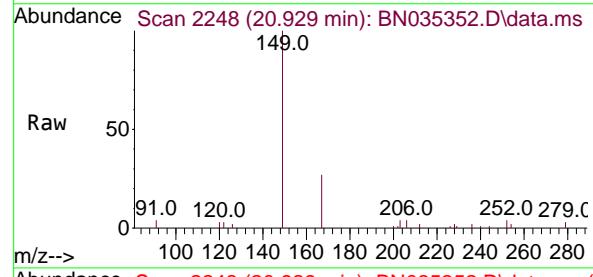
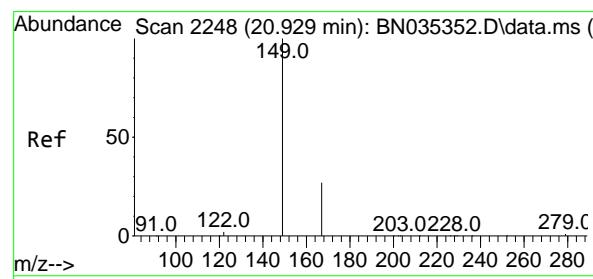
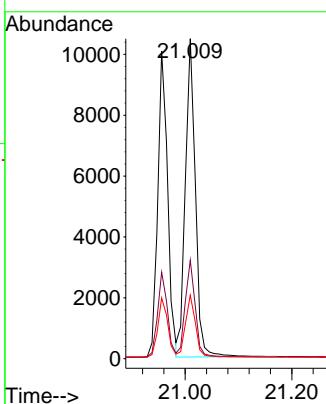
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

**Manual Integrations
APPROVED**

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


#34

Bis(2-ethylhexyl)phthalate

Concen: 0.282 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

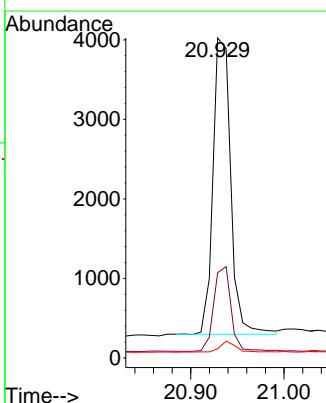
Tgt Ion:149 Resp: 4912

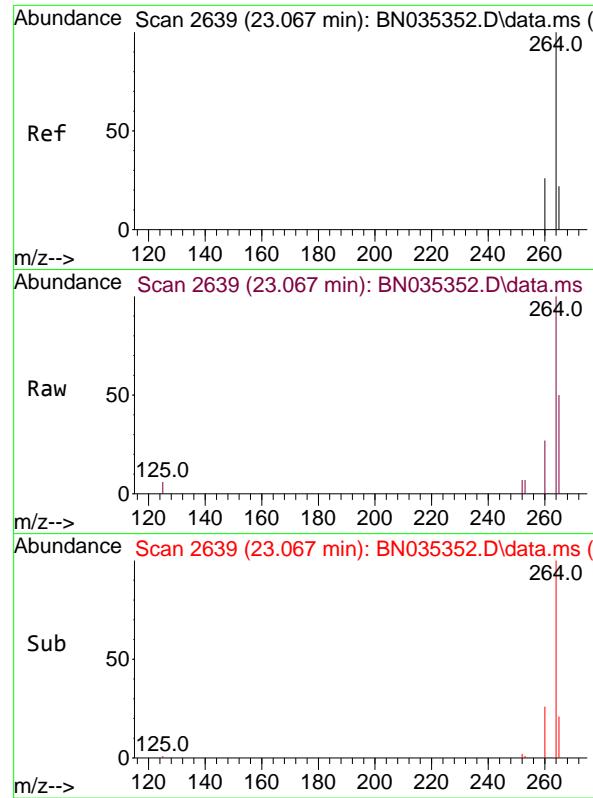
Ion Ratio Lower Upper

149 100

167 27.8 22.2 33.4

279 3.4 2.7 4.1



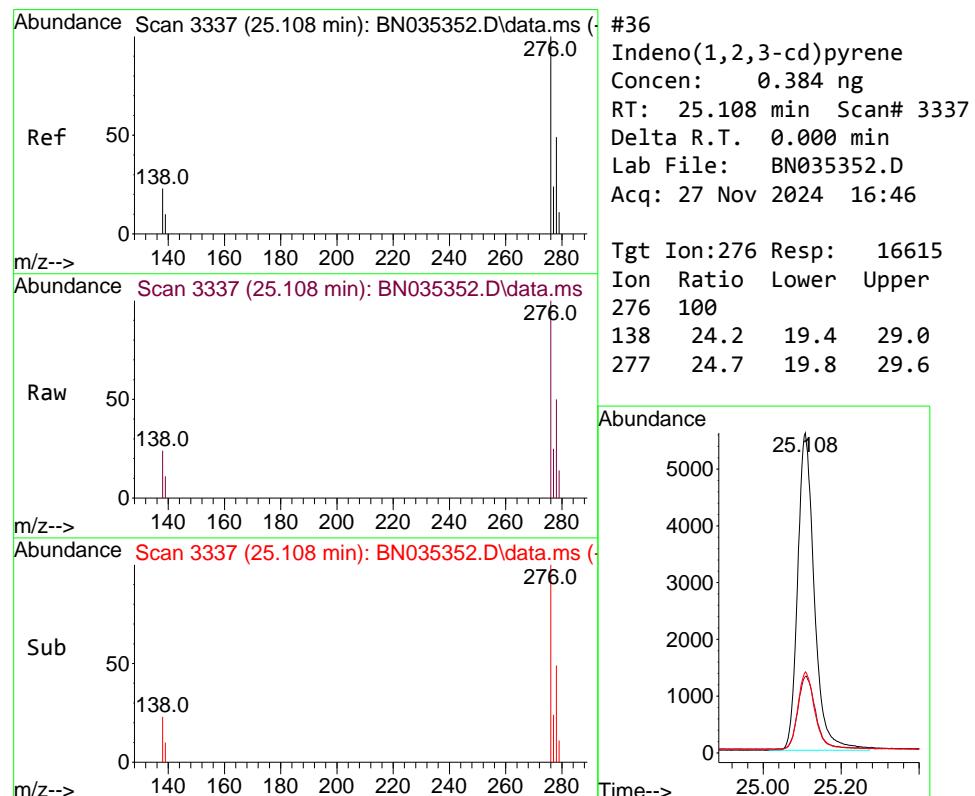
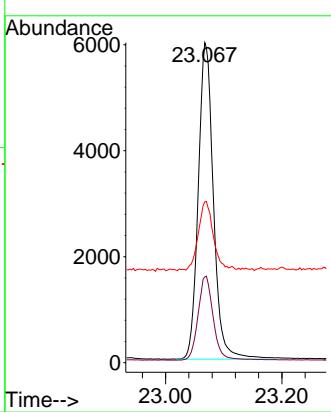


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument : BNA_N
ClientSampleId : SSTDICCC0.4

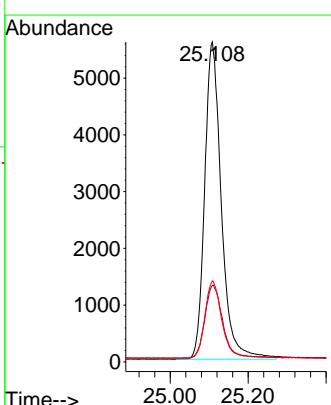
Manual Integrations
APPROVED

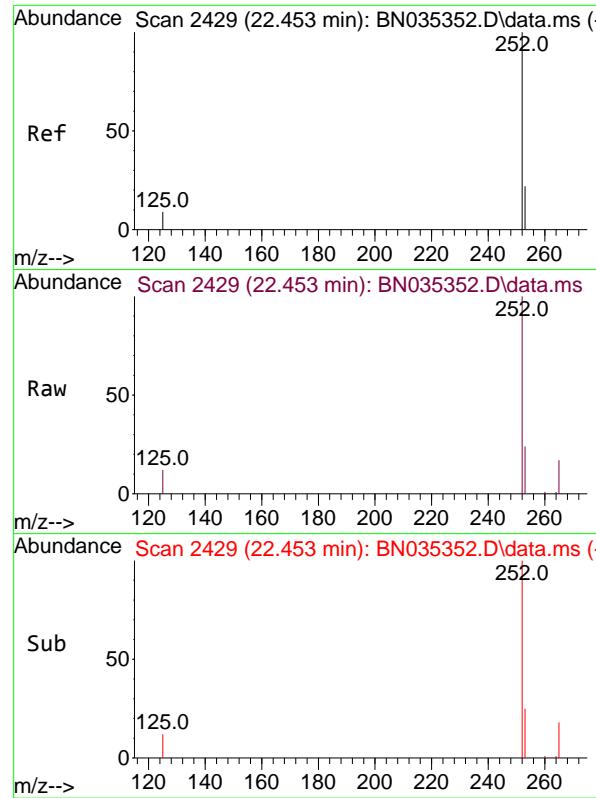
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.384 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



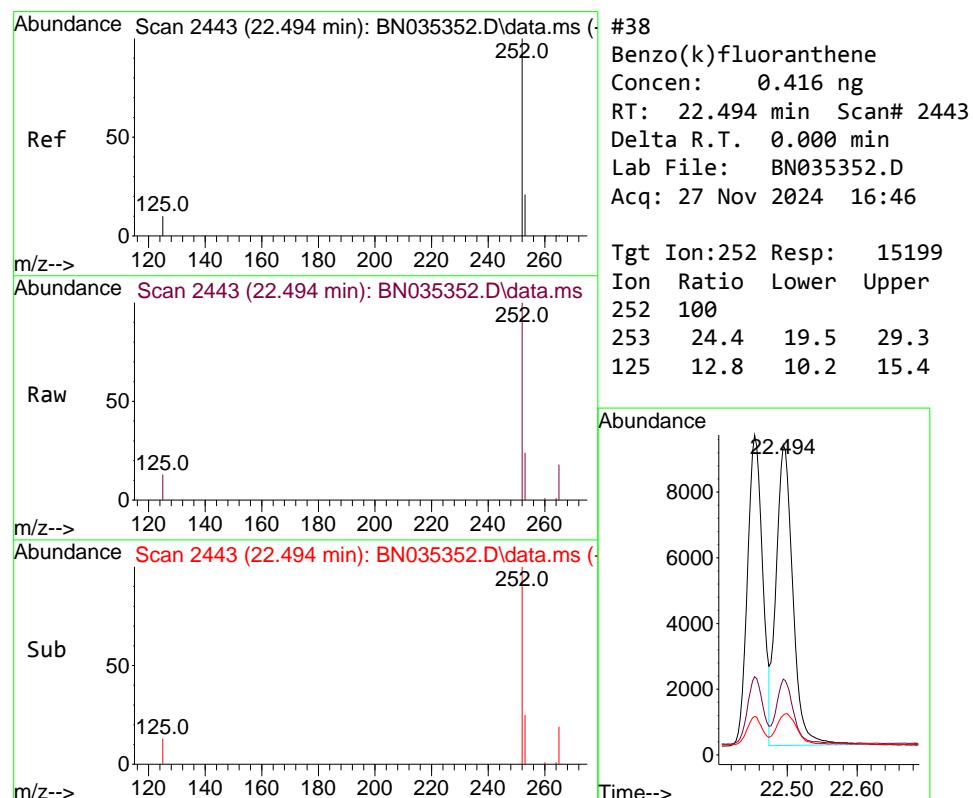
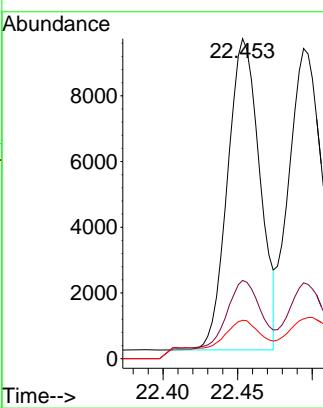


#37
Benzo(b)fluoranthene
Concen: 0.390 ng
RT: 22.453 min Scan# 2429
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

Instrument : BNA_N
ClientSampleId : SSTDICCC0.4

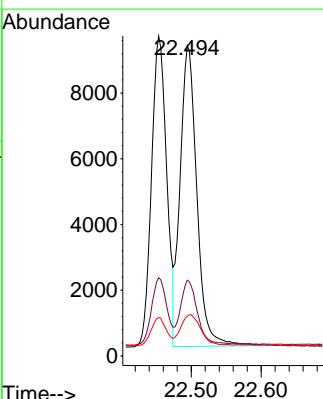
Manual Integrations
APPROVED

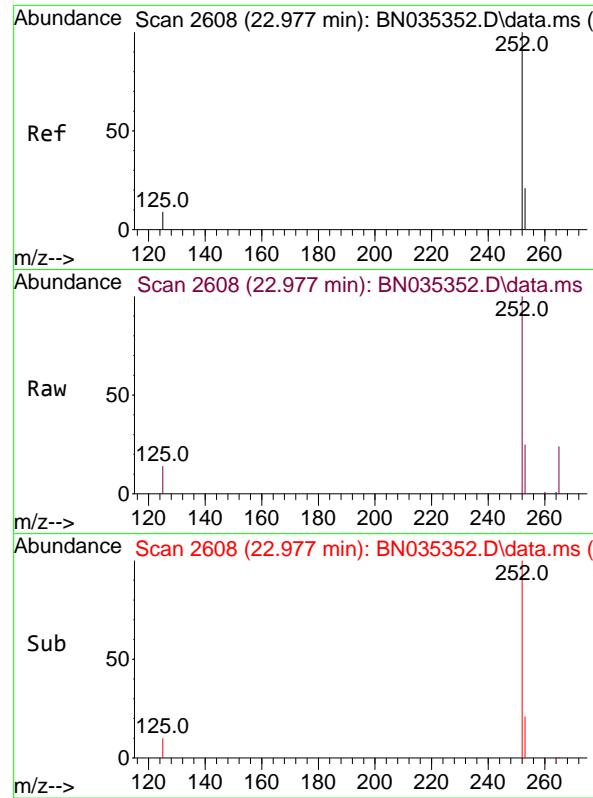
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



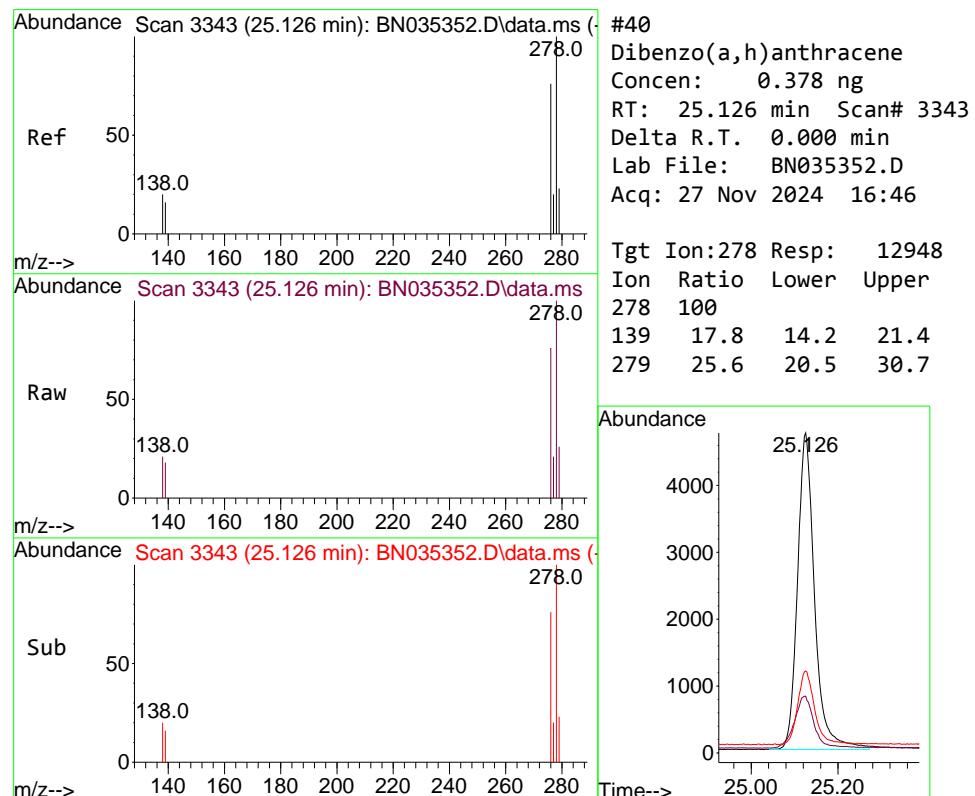
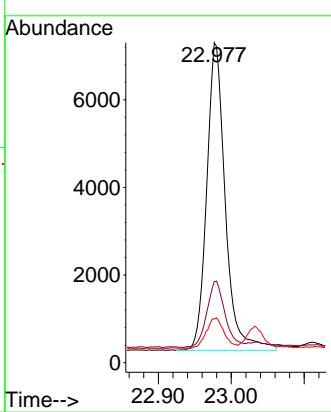


#39
 Benzo(a)pyrene
 Concen: 0.387 ng
 RT: 22.977 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

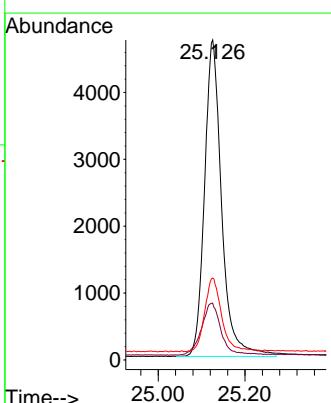
Manual Integrations
APPROVED

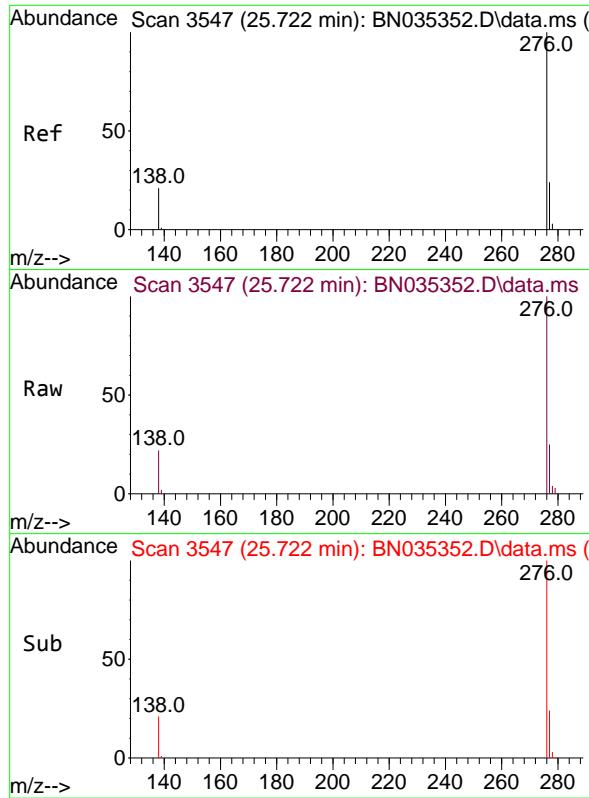
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:278 Resp: 12948
 Ion Ratio Lower Upper
 278 100
 139 17.8 14.2 21.4
 279 25.6 20.5 30.7





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 25.722 min Scan# 3

Delta R.T. 0.000 min

Lab File: BN035352.D

Acq: 27 Nov 2024 16:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:276 Resp: 13529

Ion Ratio Lower Upper

276 100

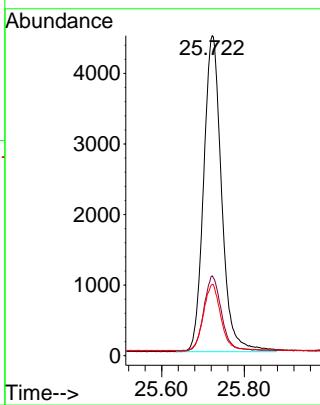
277 24.9 19.9 29.9

138 22.3 17.8 26.8

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.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

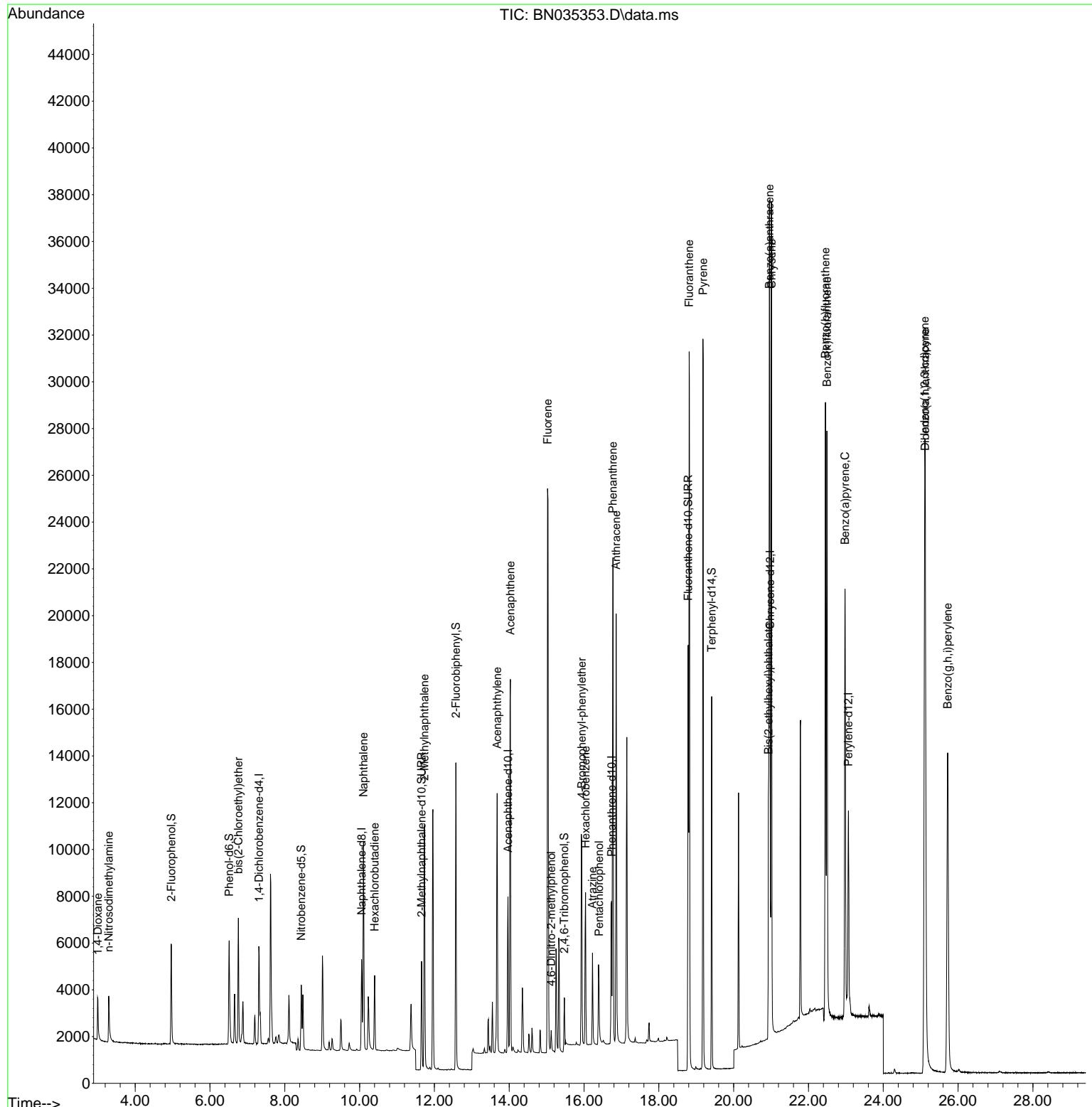
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2047	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5308	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3823	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9525	0.400	ng	0.00
29) Chrysene-d12	20.974	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

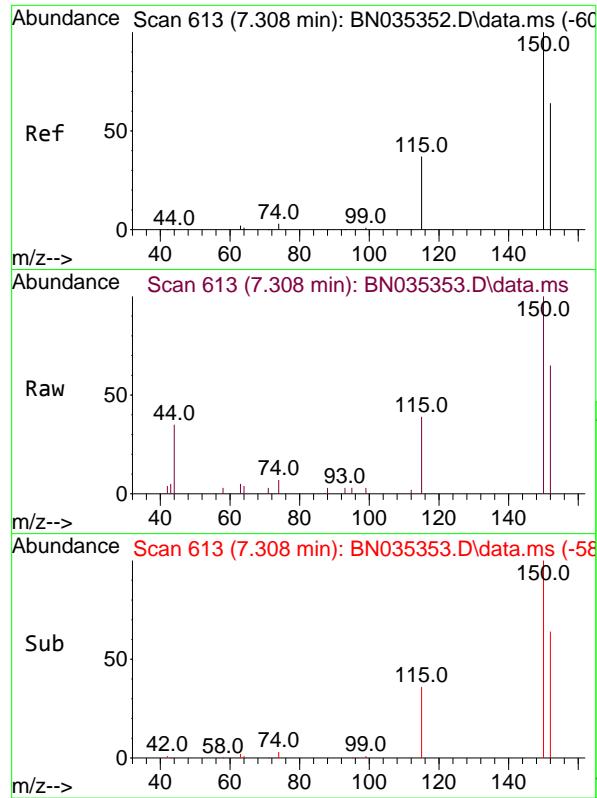
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN035353.D
 Acq On : 27 Nov 2024 17:21
 Operator : RC/JU
 Sample : SSTDICCO.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.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

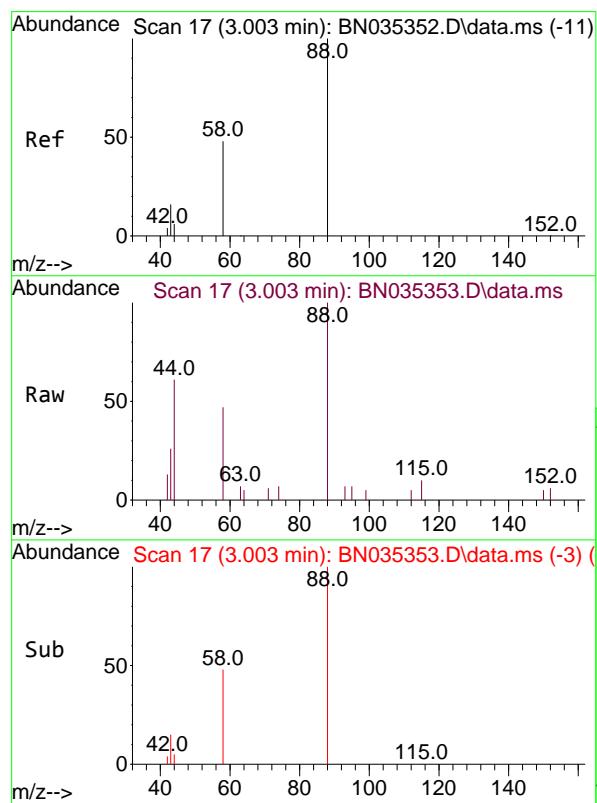
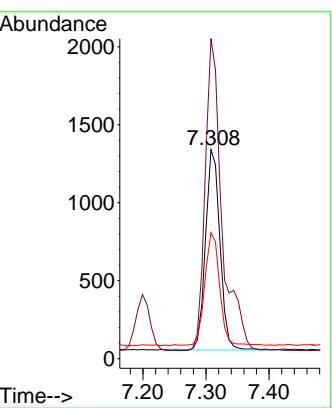




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: BN035353.D
 Acq: 27 Nov 2024 17:21

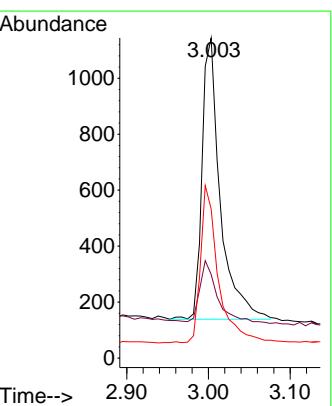
Instrument : BNA_N
 ClientSampleId : SSTDICCO.8

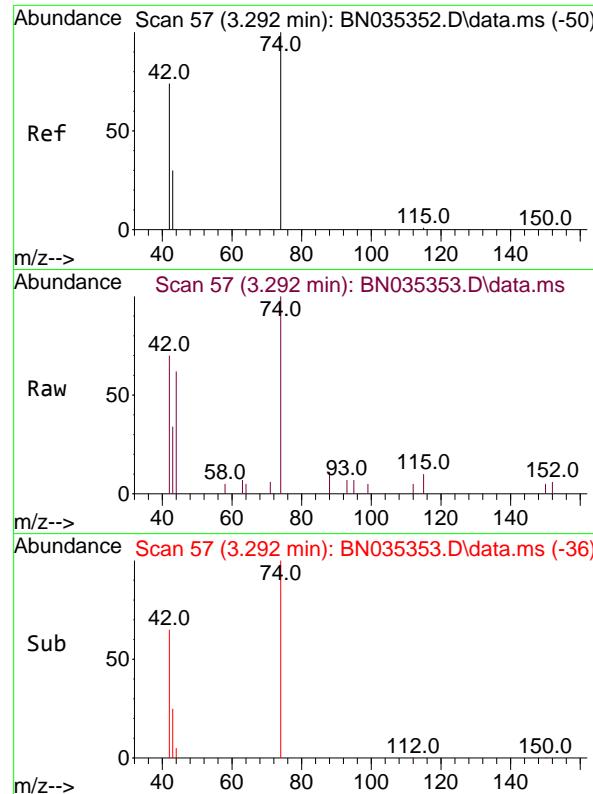
Tgt Ion:152 Resp: 2047
 Ion Ratio Lower Upper
 152 100
 150 153.1 124.0 186.0
 115 60.3 49.6 74.4



#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

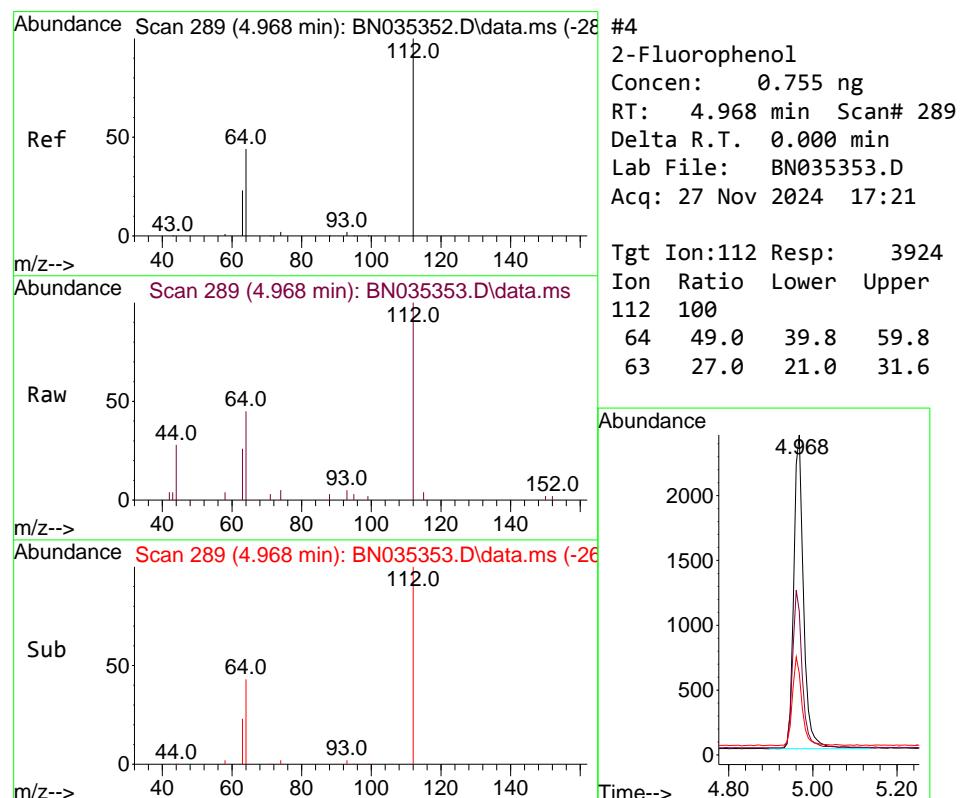
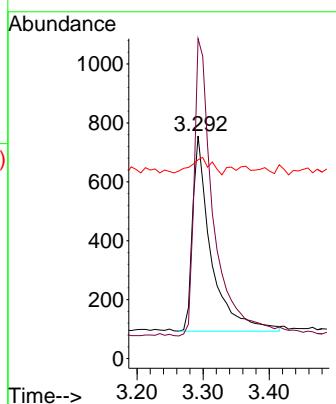




#3
n-Nitrosodimethylamine
Concen: 0.745 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

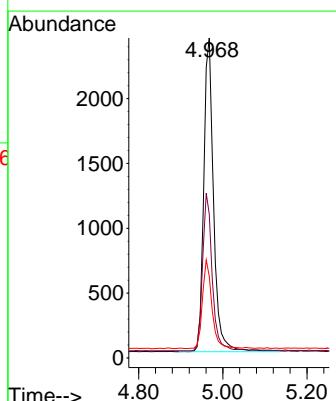
Instrument : BNA_N
ClientSampleId : SSTDICCO.8

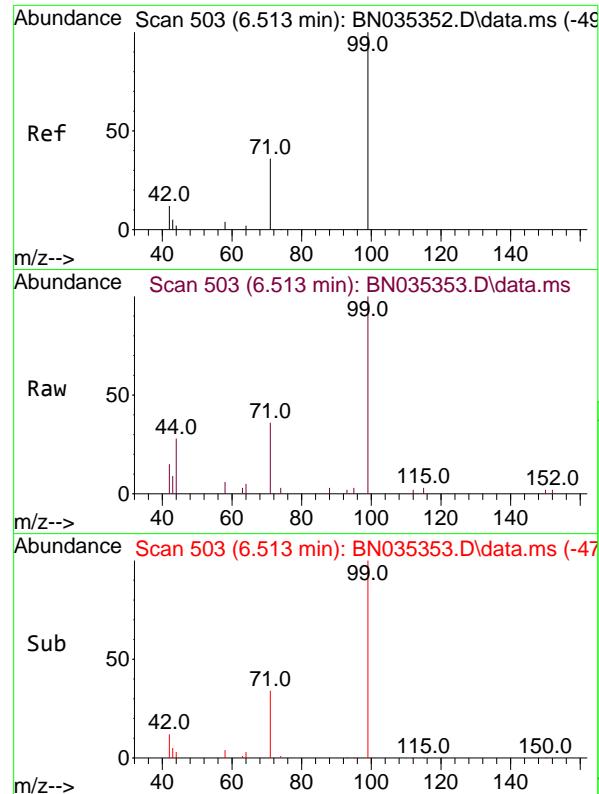
Tgt Ion: 42 Resp: 1291
Ion Ratio Lower Upper
42 100
74 158.7 124.9 187.3
44 9.8 2.2 3.4#



#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

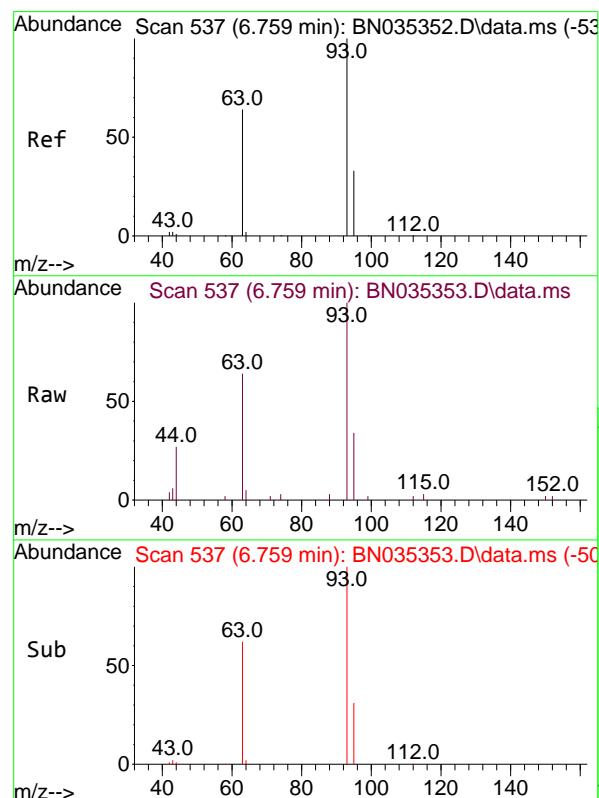
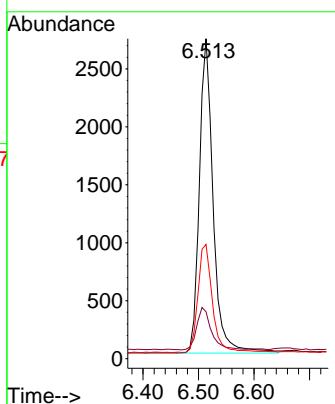




#5
 Phenol-d6
 Concen: 0.718 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035353.D
 Acq: 27 Nov 2024 17:21

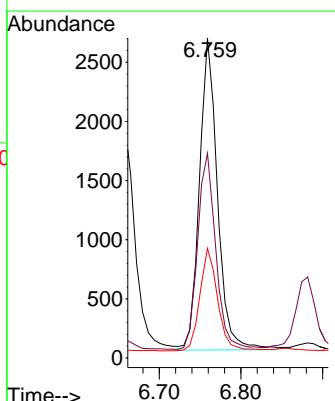
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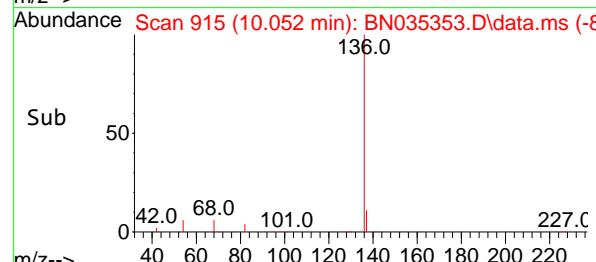
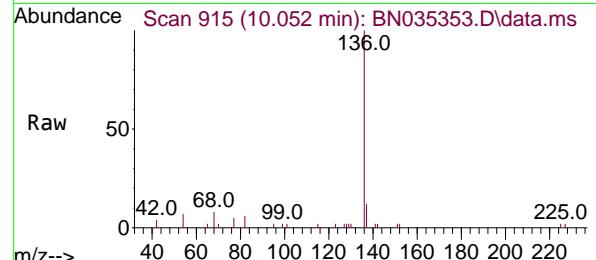
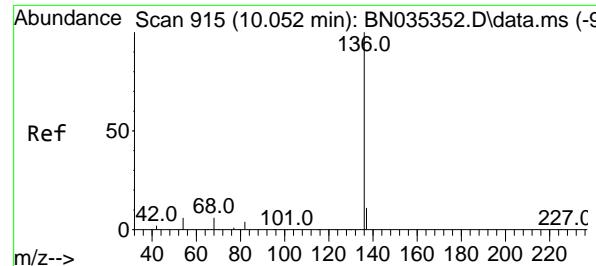
Tgt Ion: 99 Resp: 4681
 Ion Ratio Lower Upper
 99 100
 42 14.3 11.4 17.2
 71 36.1 29.3 43.9



#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# 9
 Delta R.T. 0.000 min
 Lab File: BN035353.D
 Acq: 27 Nov 2024 17:21

Instrument : BNA_N
 ClientSampleId : SSTDICCO.8

Tgt Ion:136 Resp: 5308

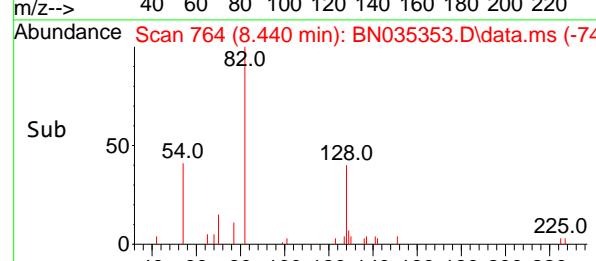
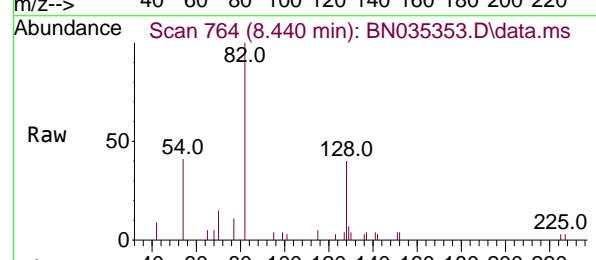
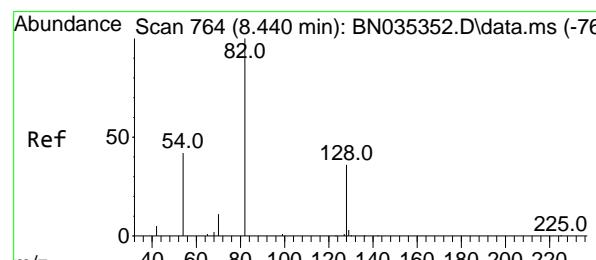
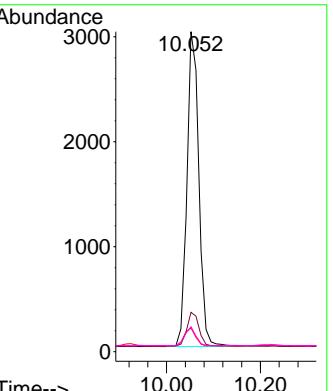
Ion Ratio Lower Upper

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

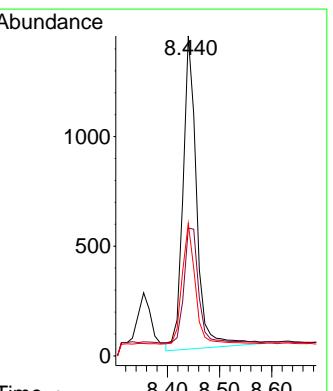
Tgt Ion: 82 Resp: 2634

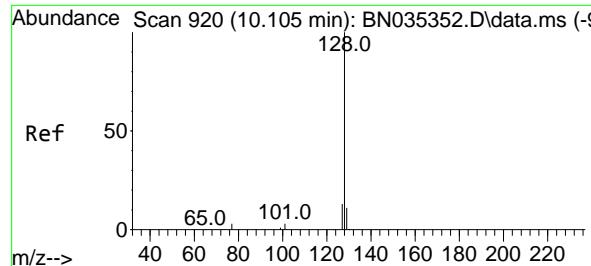
Ion Ratio Lower Upper

82 100

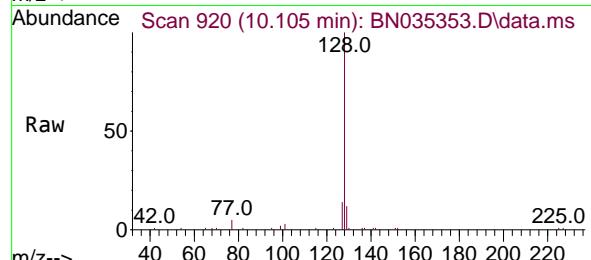
128 40.0 33.4 50.0

54 41.5 36.7 55.1

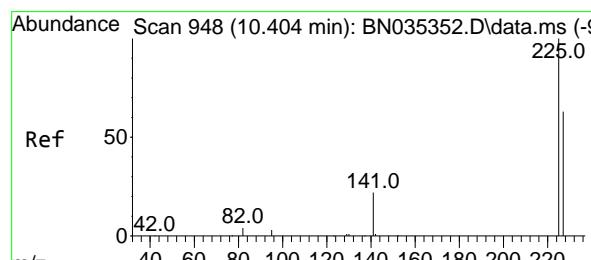
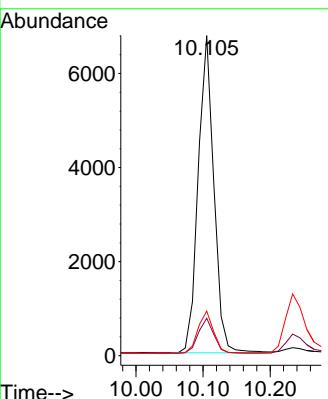
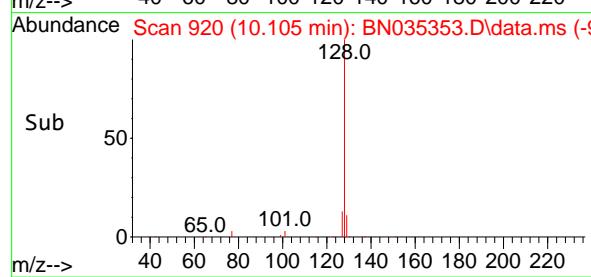




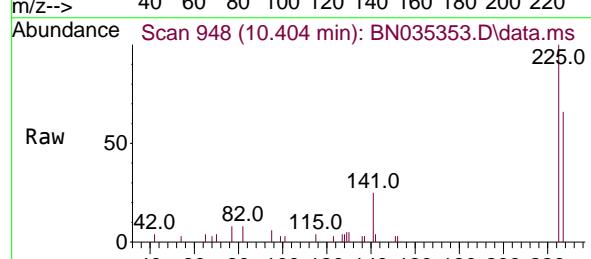
#9
Naphthalene
Concen: 0.790 ng
RT: 10.105 min Scan# 9
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21



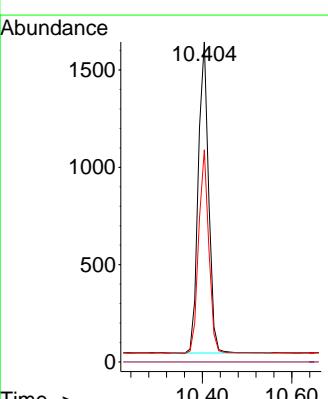
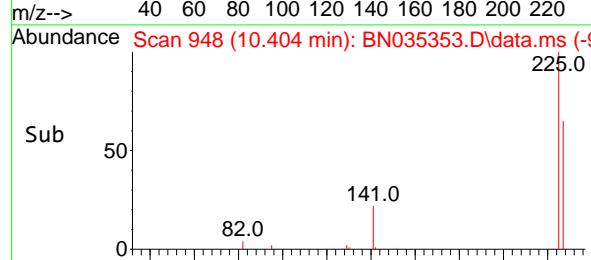
Tgt Ion:128 Resp: 10954
Ion Ratio Lower Upper
128 100
129 11.7 9.8 14.6
127 13.9 11.4 17.2

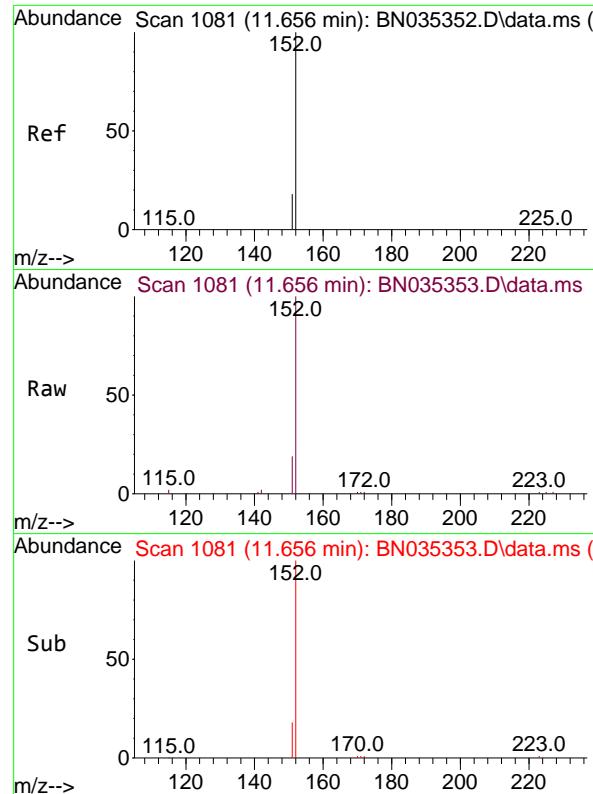


#10
Hexachlorobutadiene
Concen: 0.630 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21



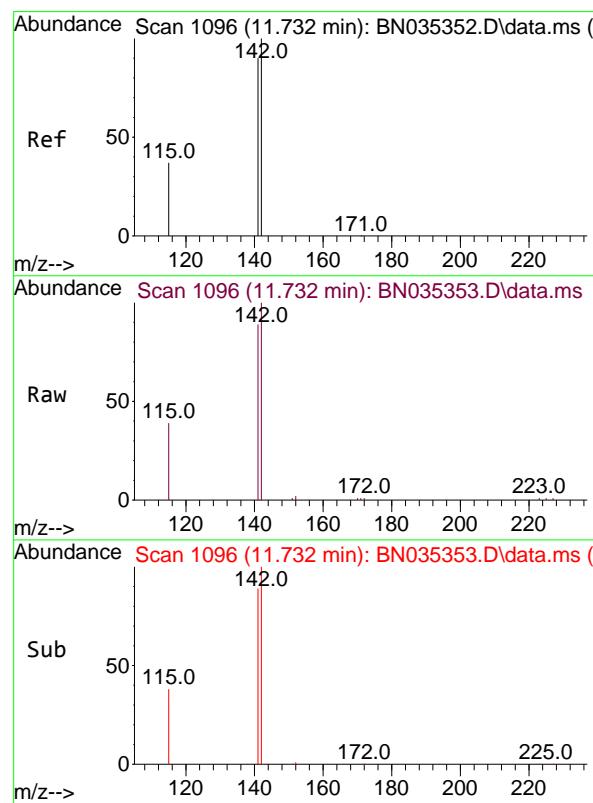
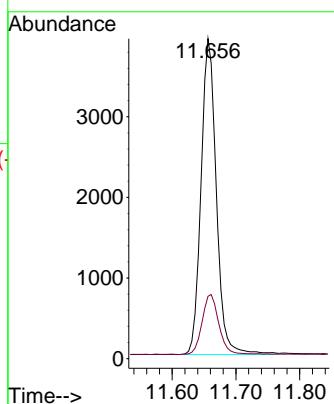
Tgt Ion:225 Resp: 2559
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





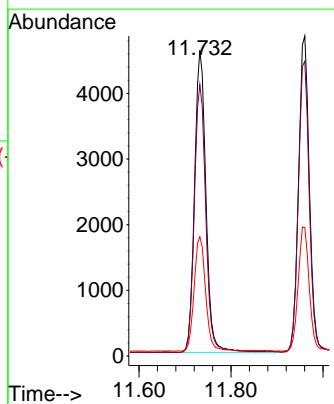
#11
2-Methylnaphthalene-d10
Concen: 0.690 ng
RT: 11.656 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21

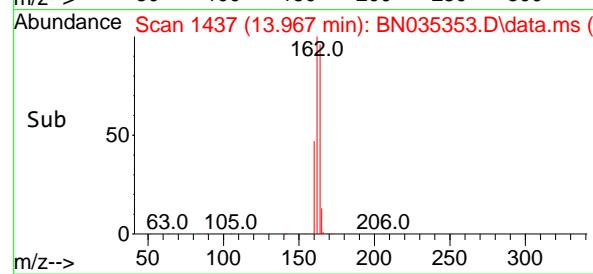
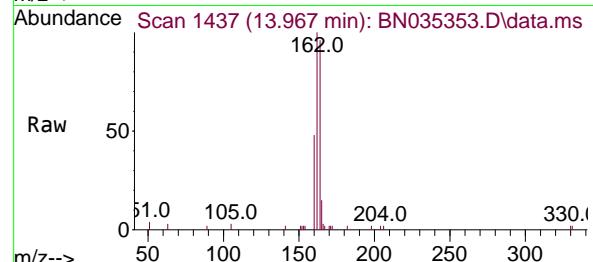
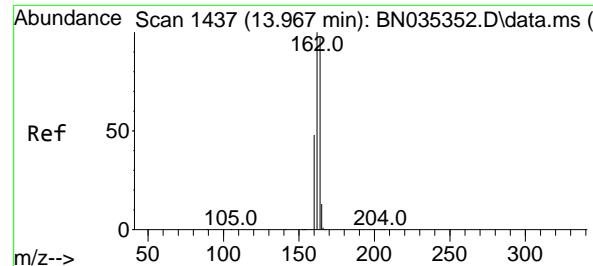
Tgt Ion:152 Resp: 6530
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



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

Tgt Ion:142 Resp: 7925
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 39.0 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BN035353.D

Acq: 27 Nov 2024 17:21

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

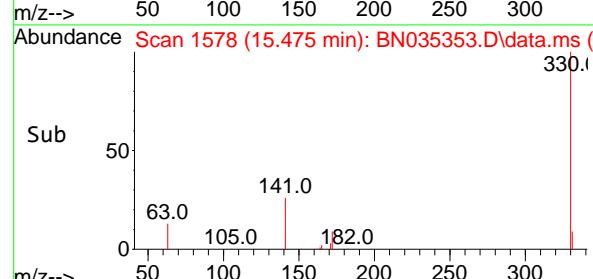
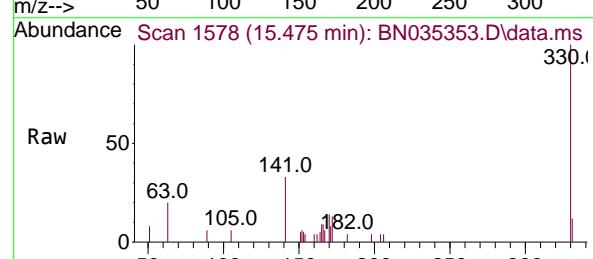
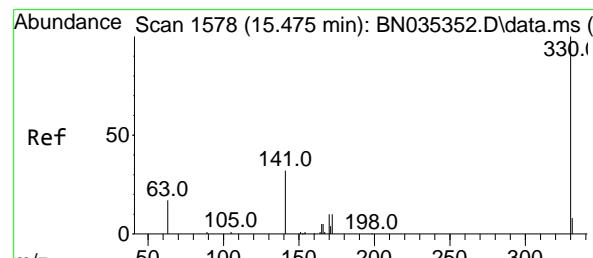
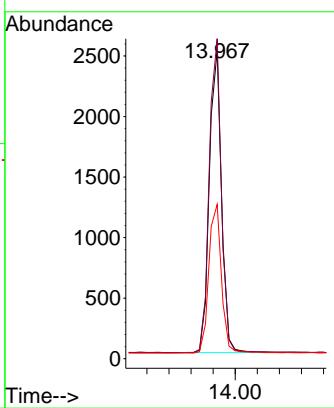
Tgt Ion:164 Resp: 3823

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

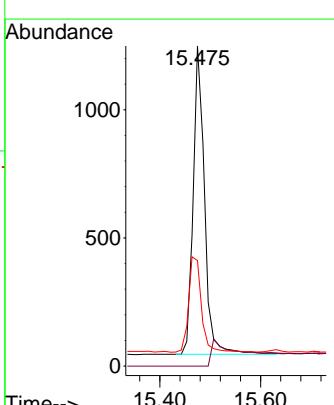
Tgt Ion:330 Resp: 2051

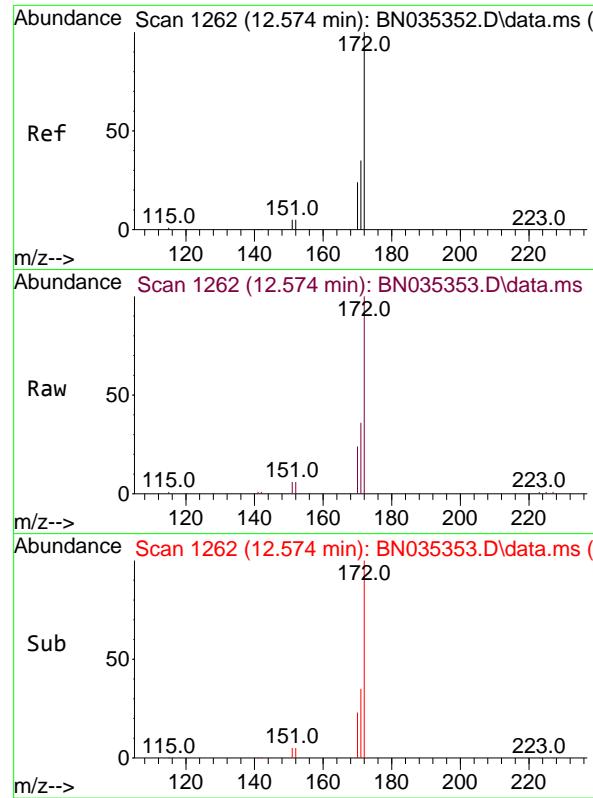
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

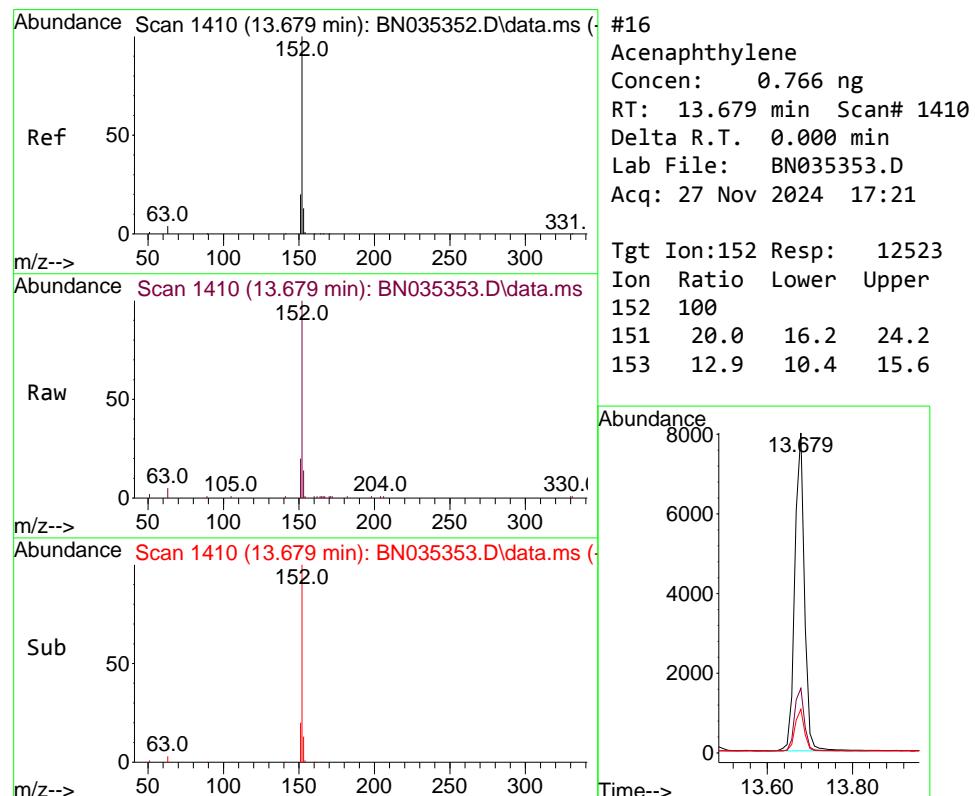
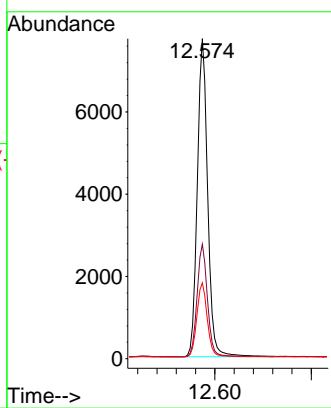
141 34.3 26.6 40.0





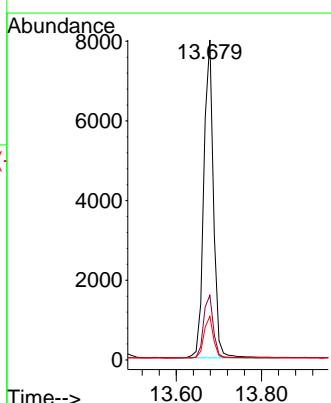
#15
2-Fluorobiphenyl
Concen: 0.742 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21

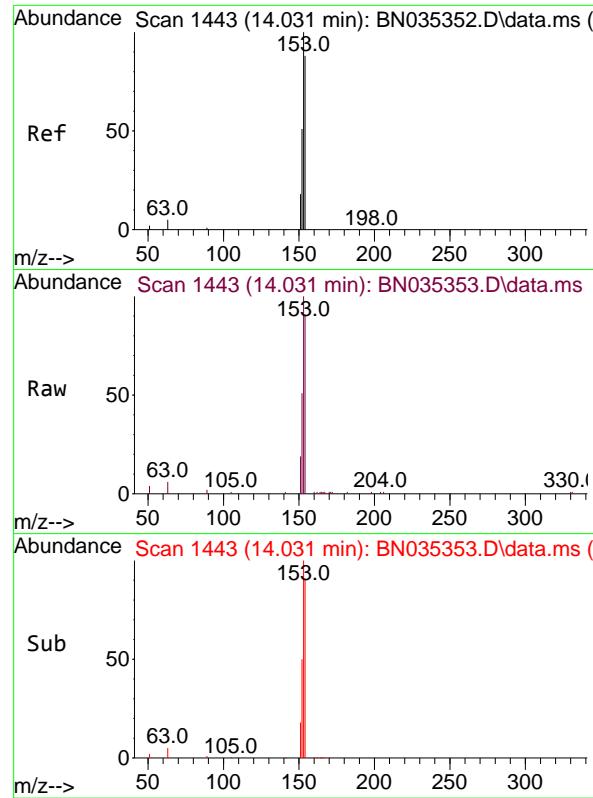
Tgt Ion:172 Resp: 11528
Ion Ratio Lower Upper
172 100
171 35.8 29.0 43.4
170 23.7 19.8 29.8



#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

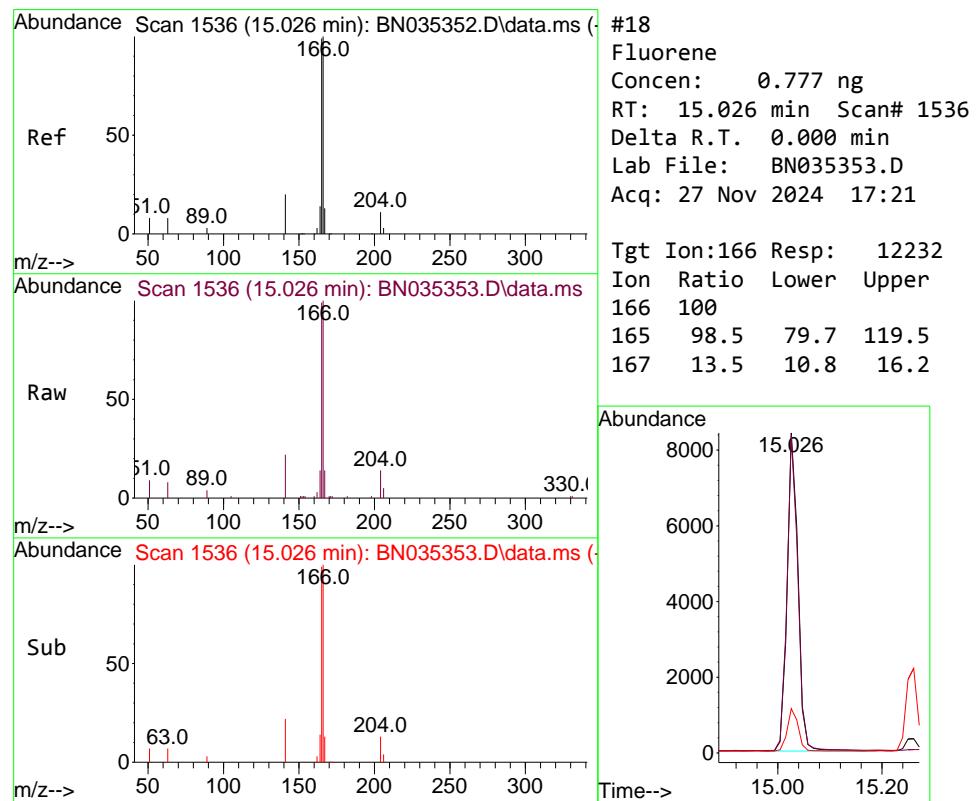
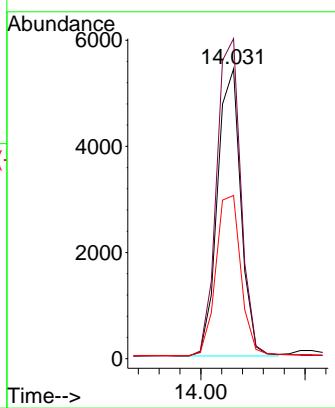




#17
Acenaphthene
Concen: 0.791 ng
RT: 14.031 min Scan# 1443
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

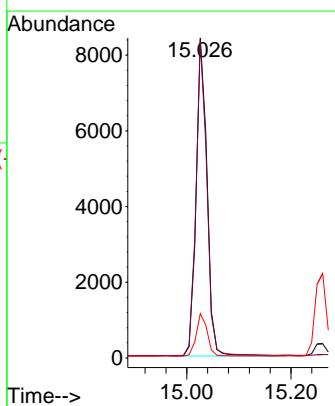
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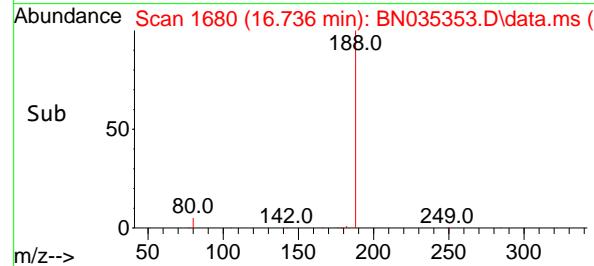
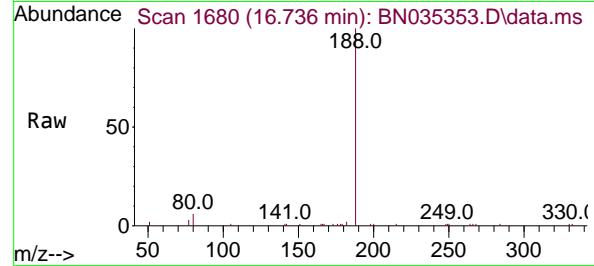
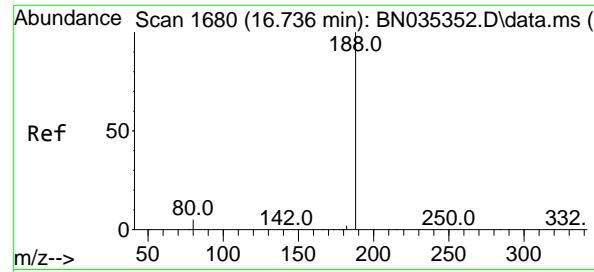
Tgt Ion:154 Resp: 8470
Ion Ratio Lower Upper
154 100
153 114.8 92.6 139.0
152 60.2 49.0 73.6



#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

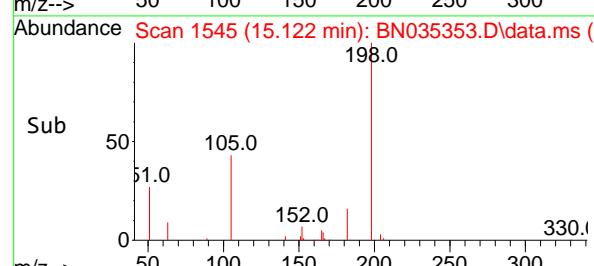
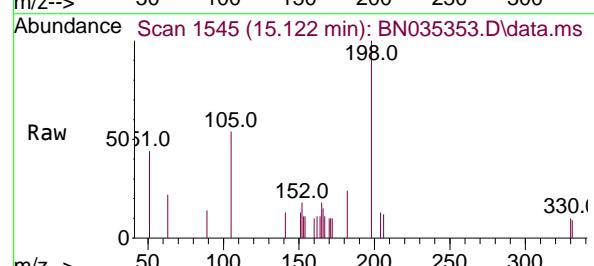
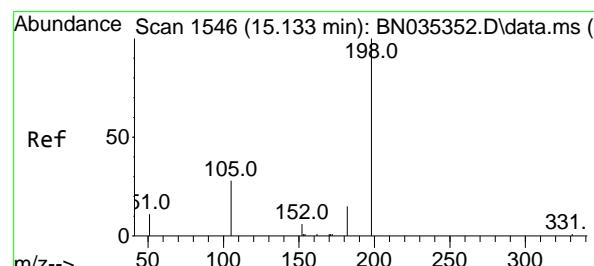
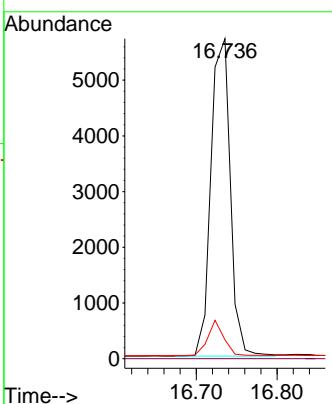
Tgt Ion:188 Resp: 9525

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

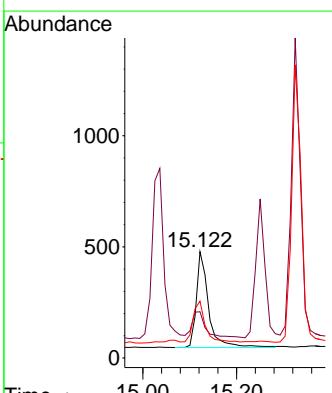
Tgt Ion:198 Resp: 784

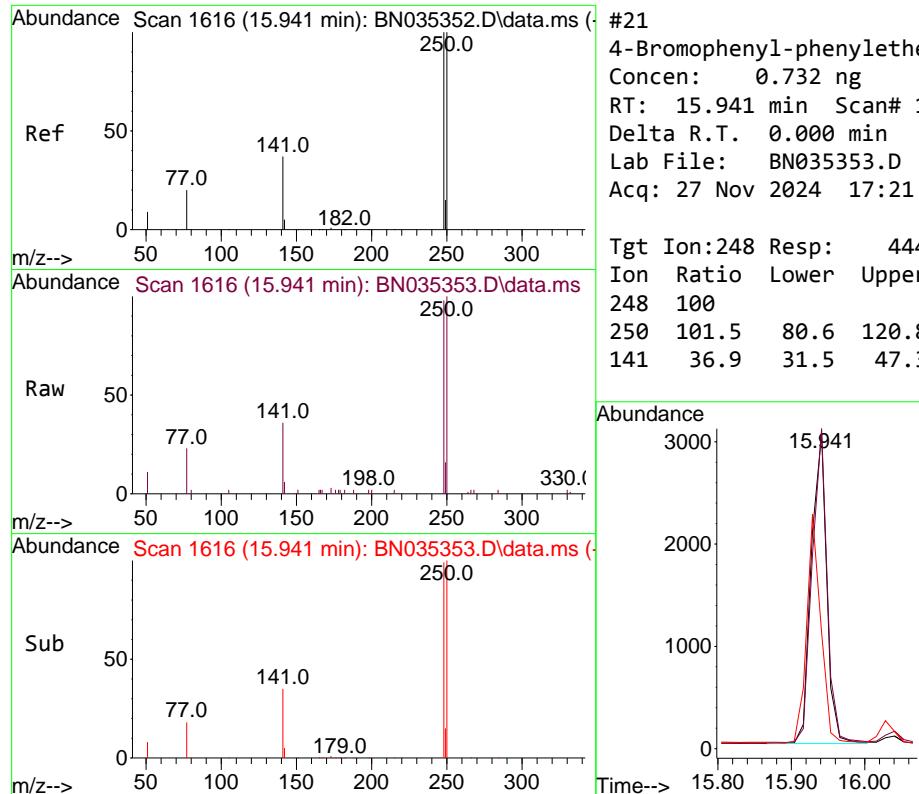
Ion Ratio Lower Upper

198 100

51 43.5 46.5 69.7#

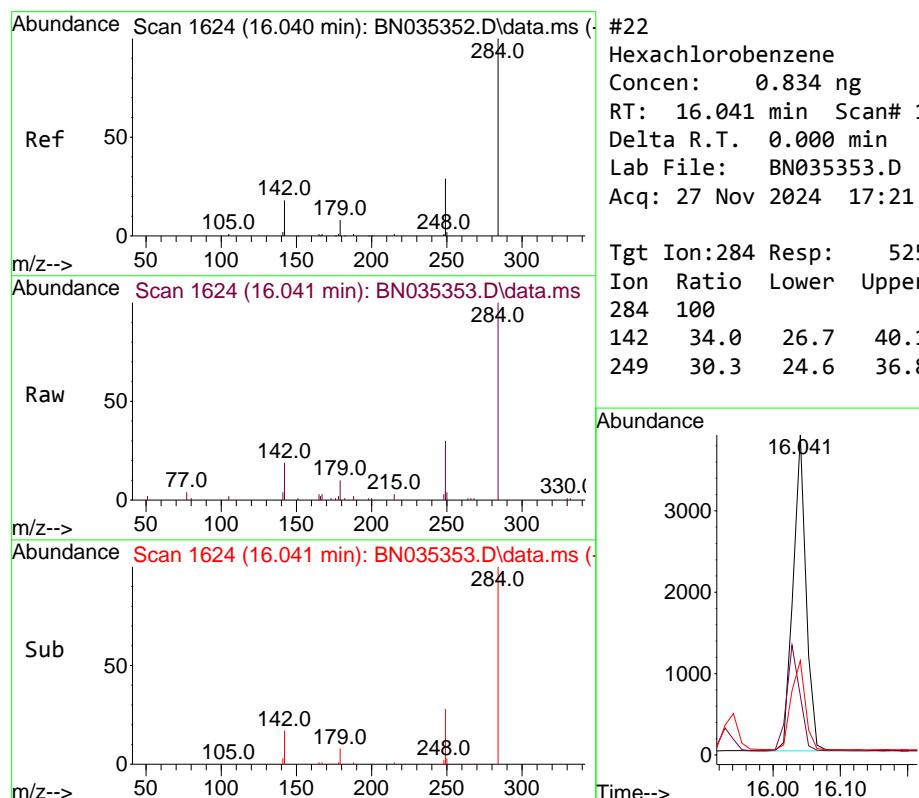
105 53.6 45.3 67.9





#21
4-Bromophenyl-phenylether
Concen: 0.732 ng
RT: 15.941 min Scan# 10
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

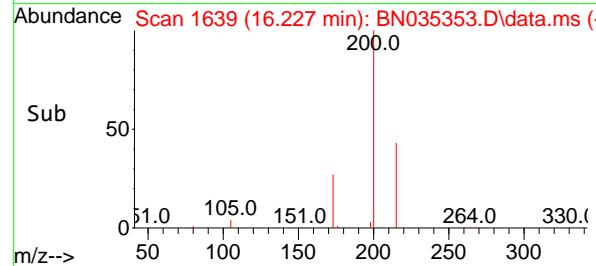
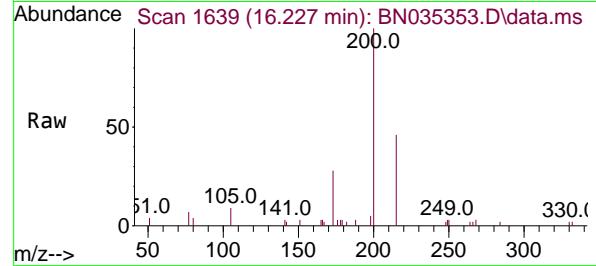
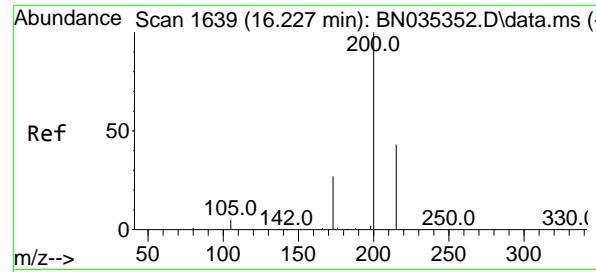


```
#22
Hexachlorobenzene
Concen: 0.834 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21
```

```

Tgt Ion:284 Resp:      5253
Ion   Ratio  Lower  Upper
284    100
142    34.0   26.7   40.1
240    29.3   24.6   36.8

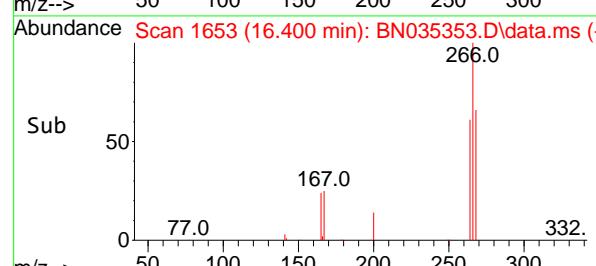
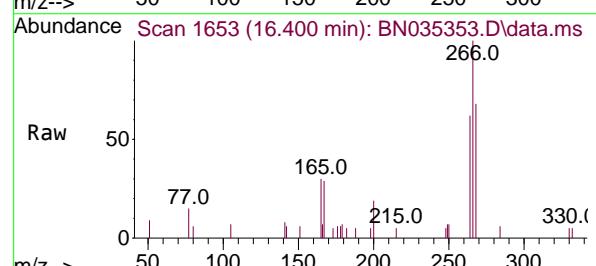
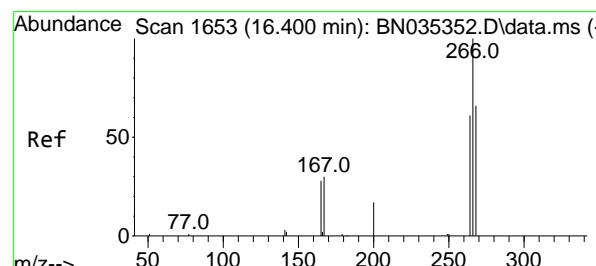
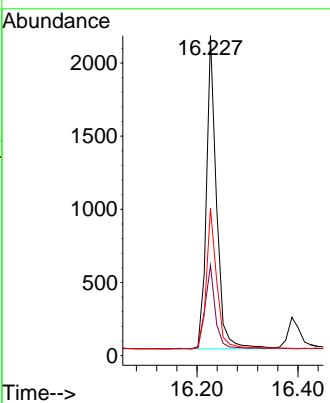
```



#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

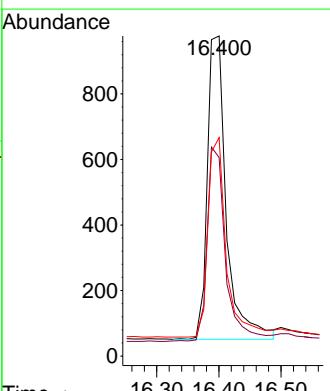
Instrument : BNA_N
ClientSampleId : SSTDICCO.8

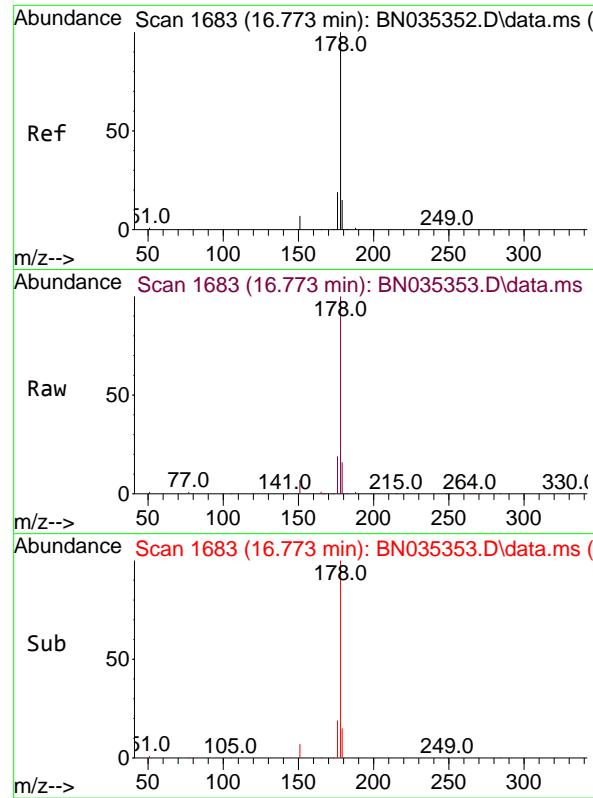
Tgt Ion:200 Resp: 2978
Ion Ratio Lower Upper
200 100
173 28.3 24.1 36.1
215 46.1 36.9 55.3



#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

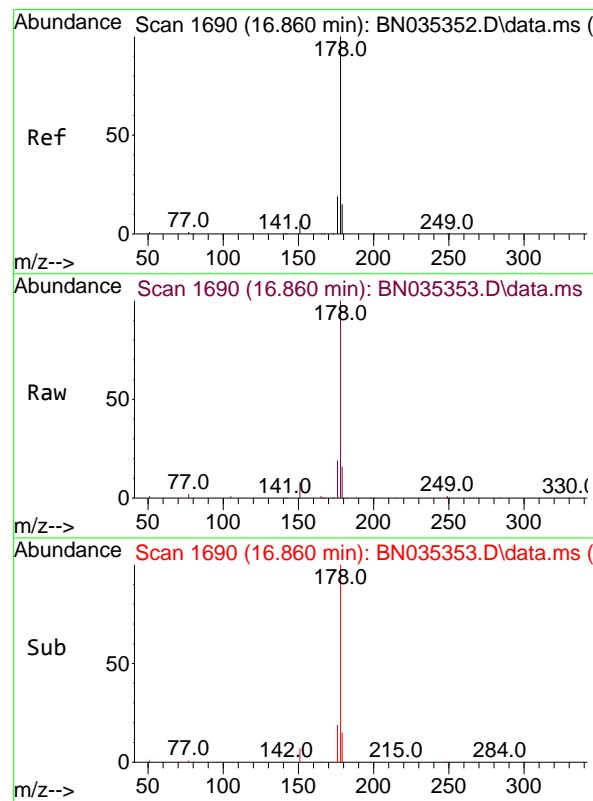
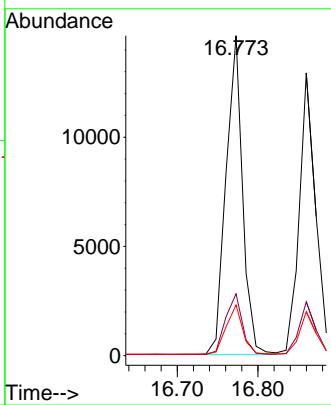




#25
Phenanthrene
Concen: 0.830 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

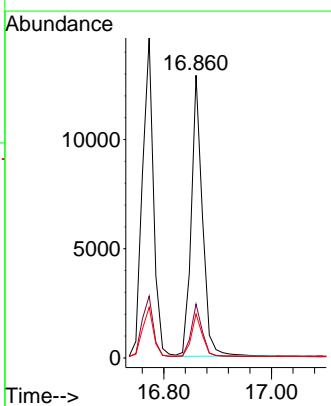
Instrument : BNA_N
ClientSampleId : SSTDICCO.8

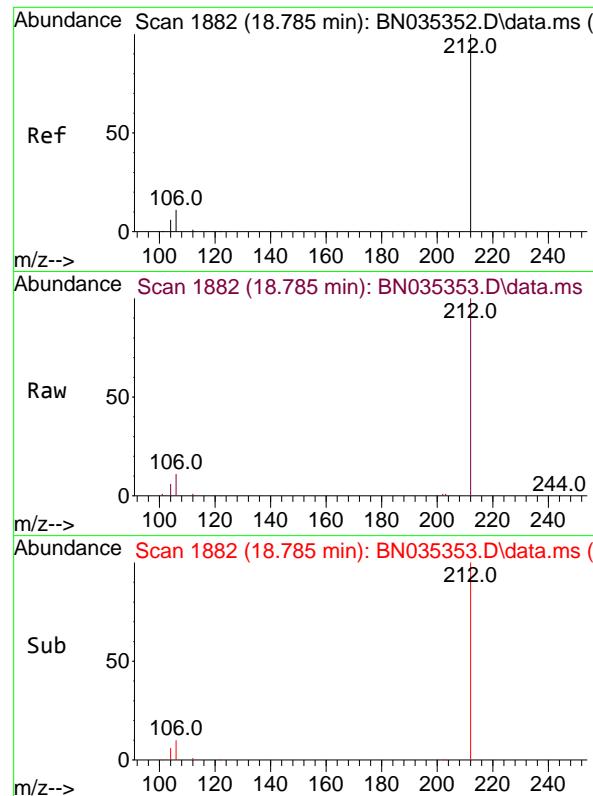
Tgt Ion:178 Resp: 20803
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.4 12.3 18.5



#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

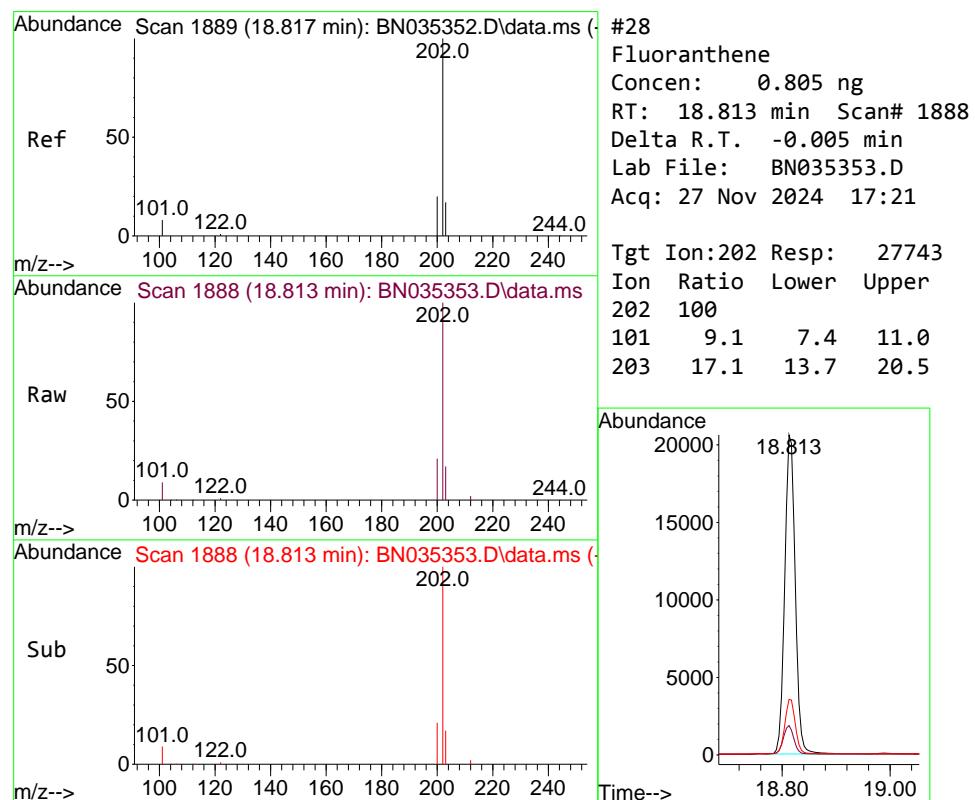
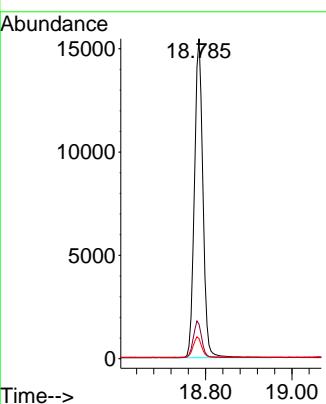




#27
 Fluoranthene-d10
 Concen: 0.721 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035353.D
 Acq: 27 Nov 2024 17:21

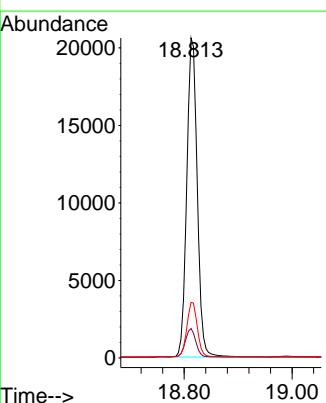
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 ClientSampleId : SSTDICCO.8

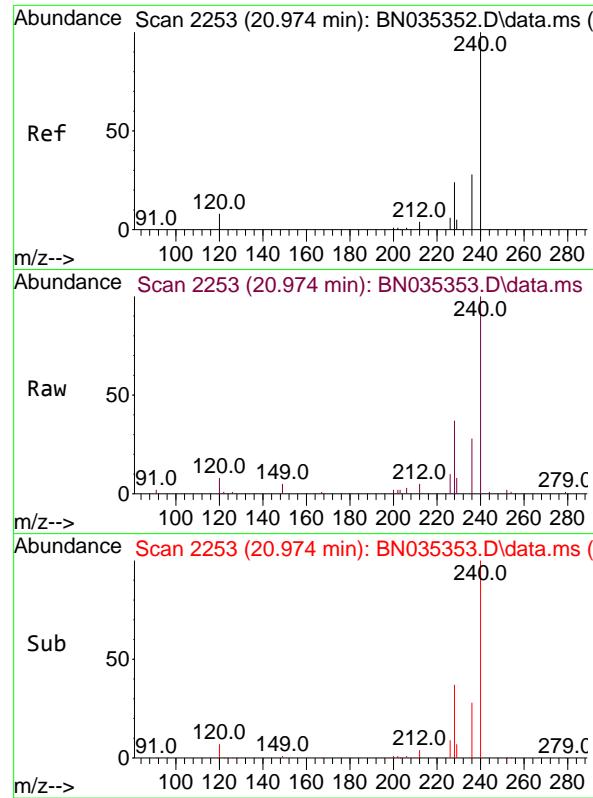
Tgt Ion:212 Resp: 21050
 Ion Ratio Lower Upper
 212 100
 106 11.3 9.2 13.8
 104 6.4 5.3 7.9



#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

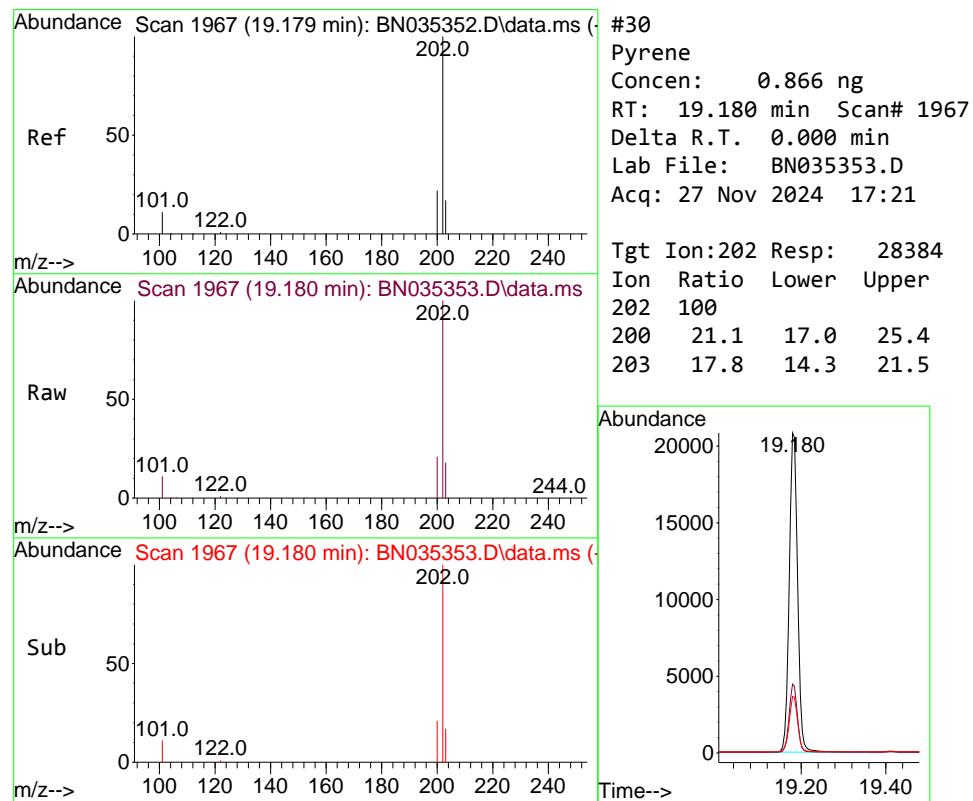
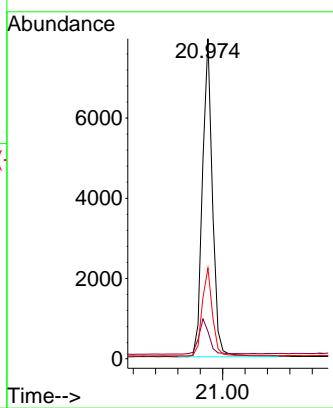
Tgt Ion:202 Resp: 27743
 Ion Ratio Lower Upper
 202 100
 101 9.1 7.4 11.0
 203 17.1 13.7 20.5





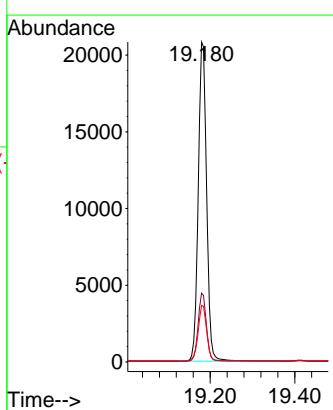
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D
ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21

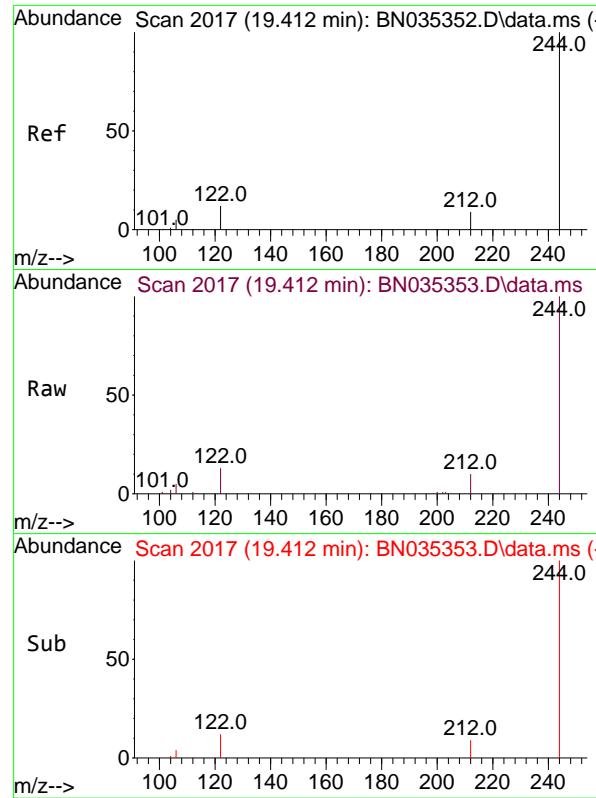
Tgt Ion:240 Resp: 9837
Ion Ratio Lower Upper
240 100
120 8.5 7.9 11.9
236 28.3 22.9 34.3



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

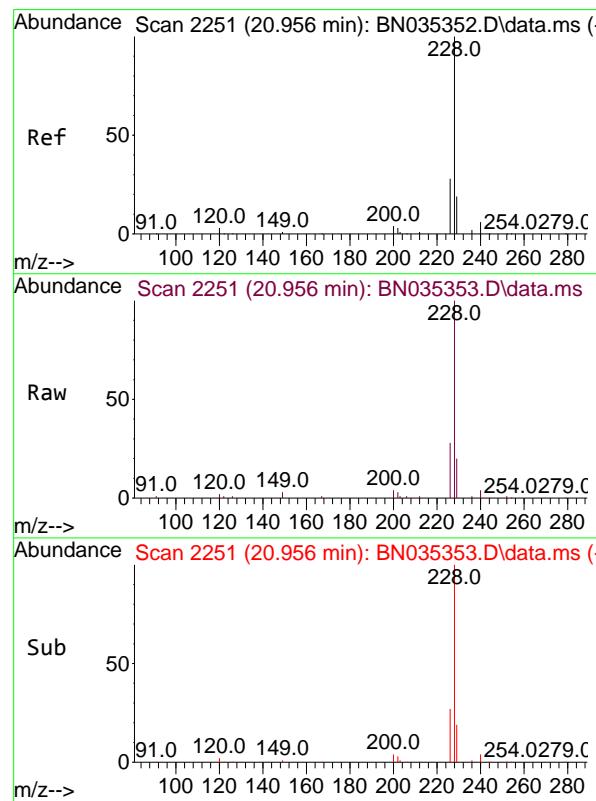
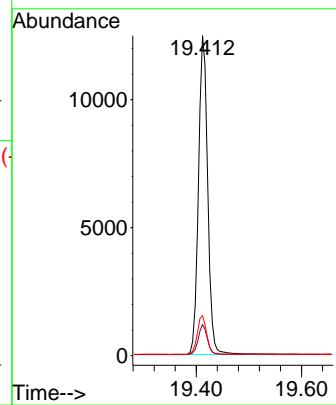
Tgt Ion:202 Resp: 28384
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.4
203 17.8 14.3 21.5





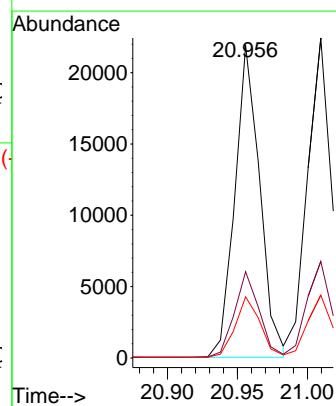
#31
Terphenyl-d14
Concen: 0.735 ng
RT: 19.412 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21

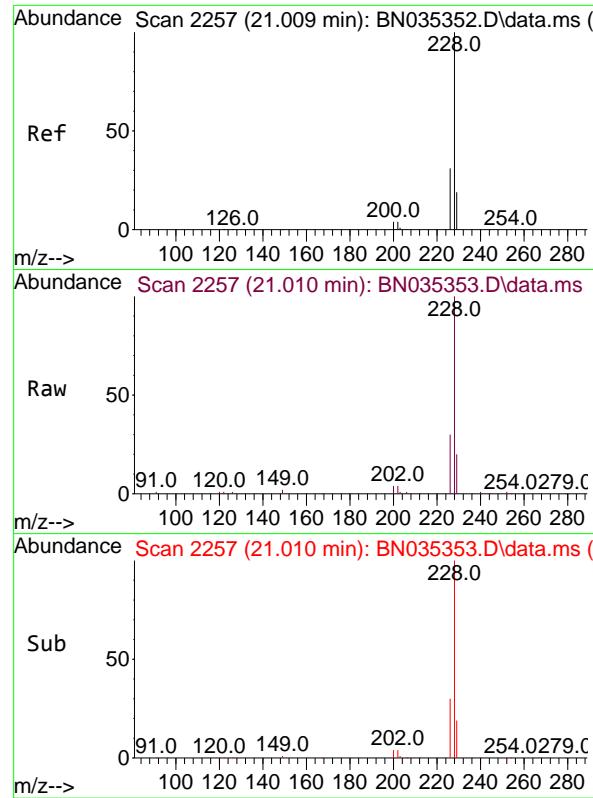
Tgt Ion:244 Resp: 15171
Ion Ratio Lower Upper
244 100
212 9.7 8.1 12.1
122 12.5 10.3 15.5



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

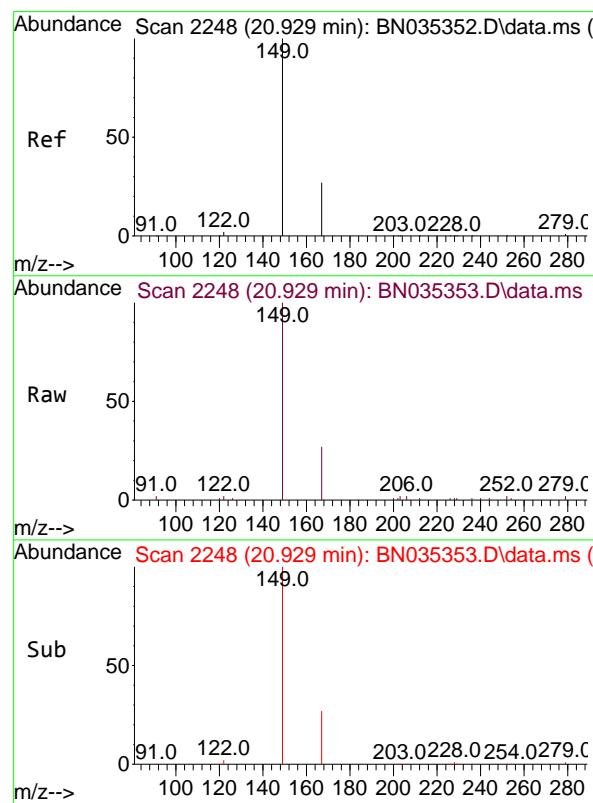
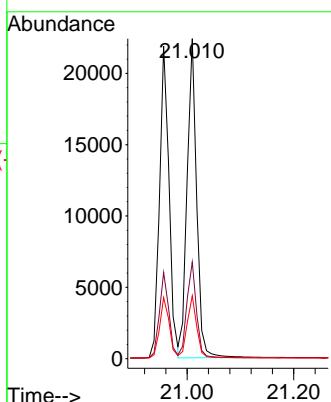
Tgt Ion:228 Resp: 27048
Ion Ratio Lower Upper
228 100
226 27.6 22.5 33.7
229 19.5 15.8 23.8





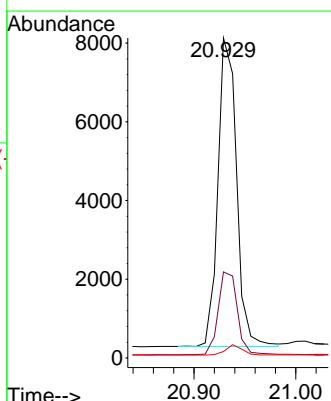
#33
Chrysene
Concen: 0.820 ng
RT: 21.010 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21
ClientSampleId : SSTDICCO.8

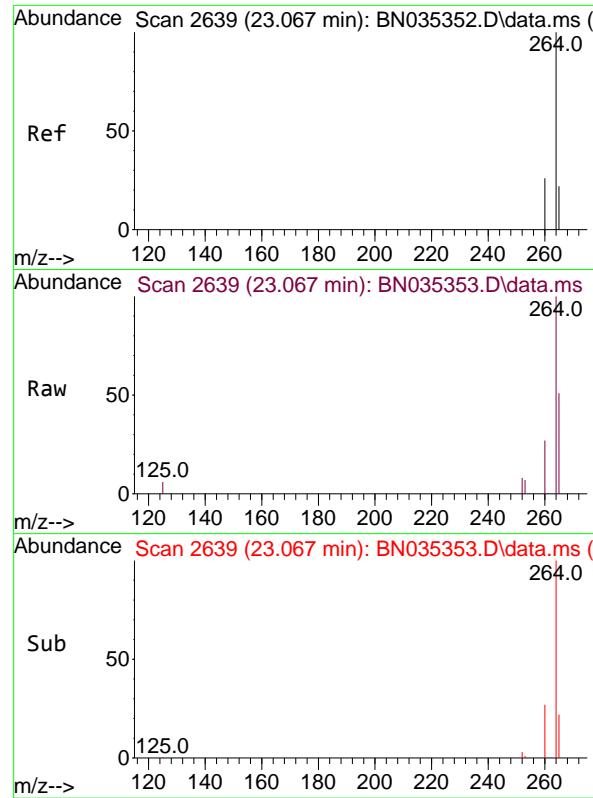
Tgt Ion:228 Resp: 27838
Ion Ratio Lower Upper
228 100
226 30.2 24.6 37.0
229 19.6 15.9 23.9



#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

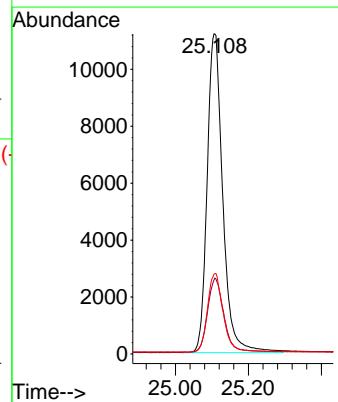
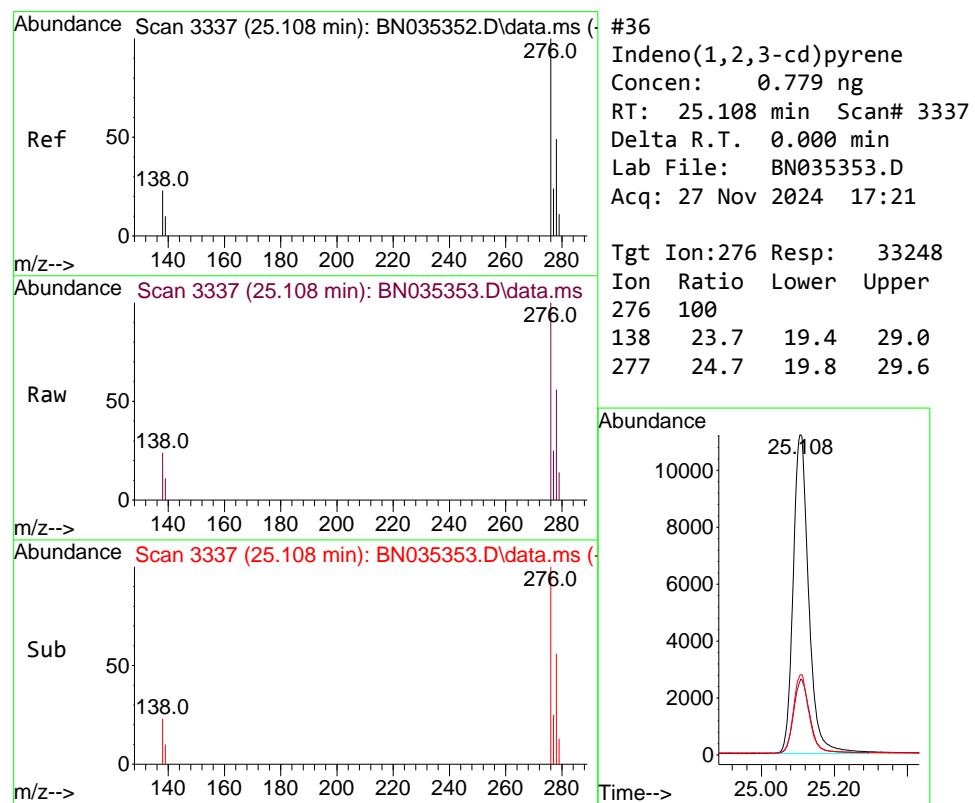
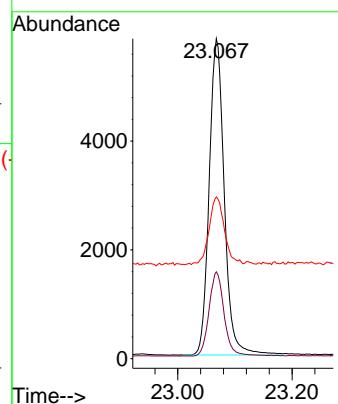


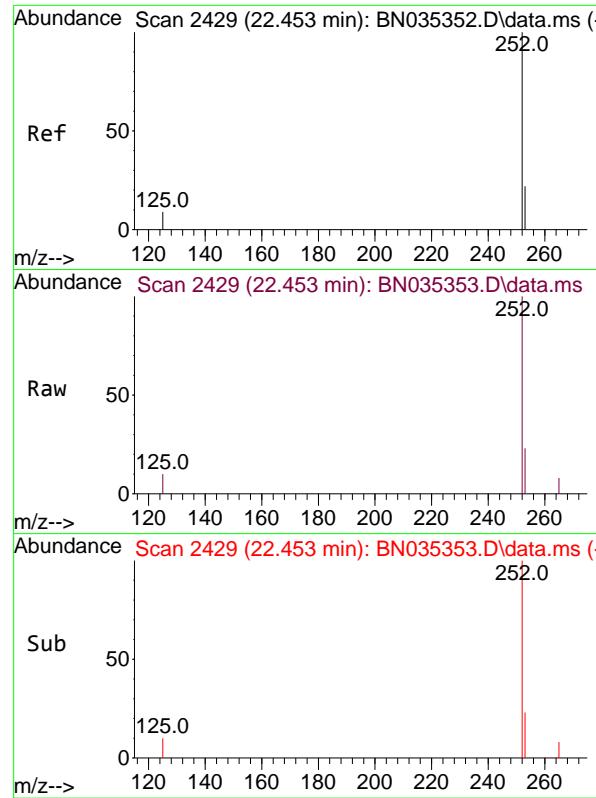


#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035353.D
Acq: 27 Nov 2024 17:21

Instrument : BNA_N
ClientSampleId : SSTDICCO.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





#37

Benzo(b)fluoranthene

Concen: 0.819 ng

RT: 22.453 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

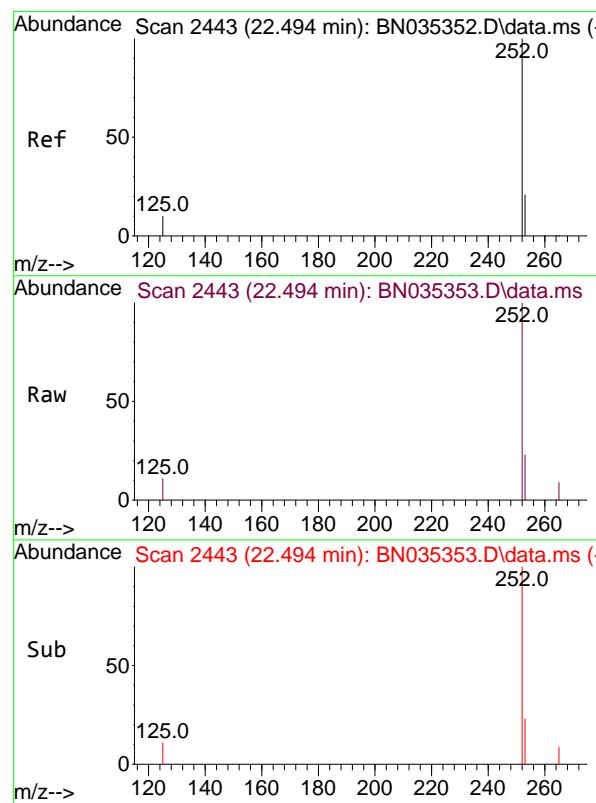
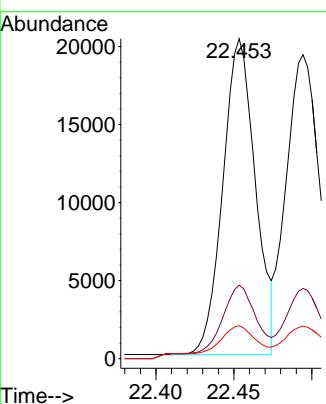
Tgt Ion:252 Resp: 29491

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

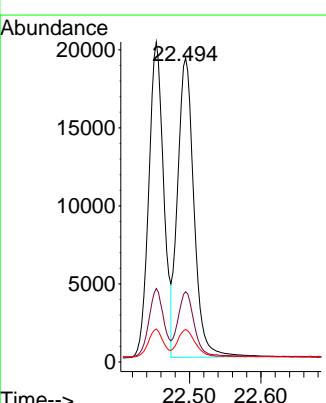
Tgt Ion:252 Resp: 30369

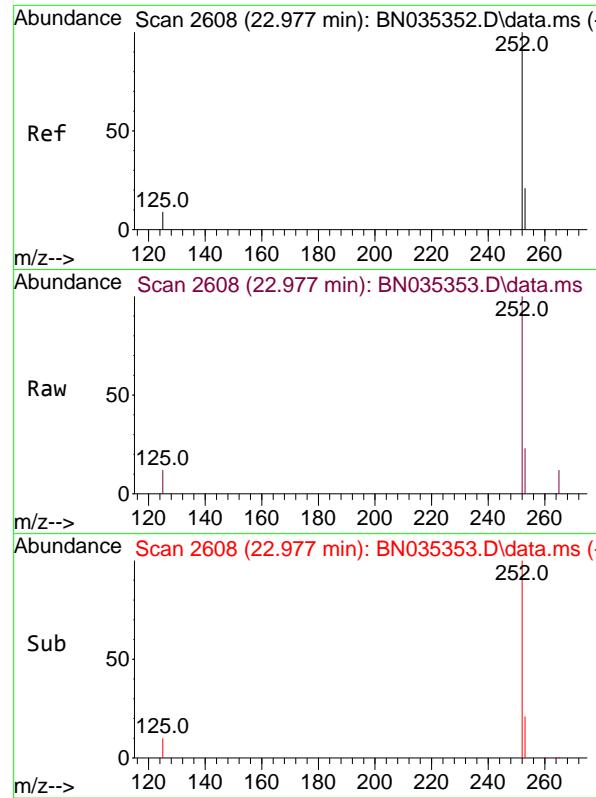
Ion Ratio Lower Upper

252 100

253 23.1 19.5 29.3

125 10.7 10.2 15.4

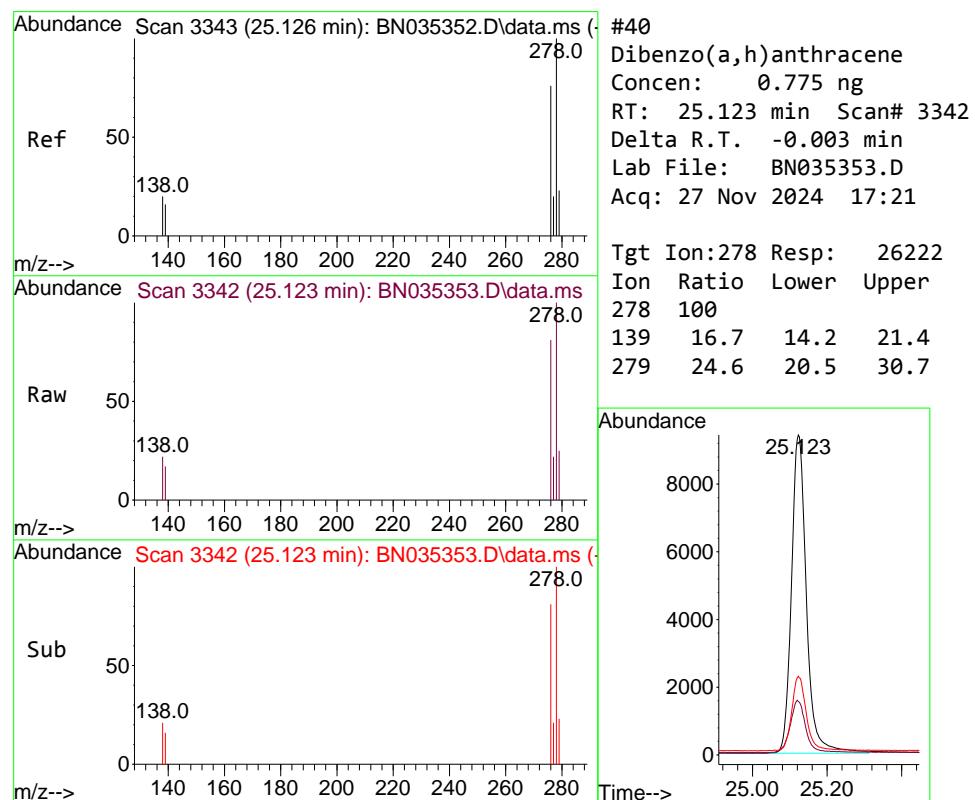
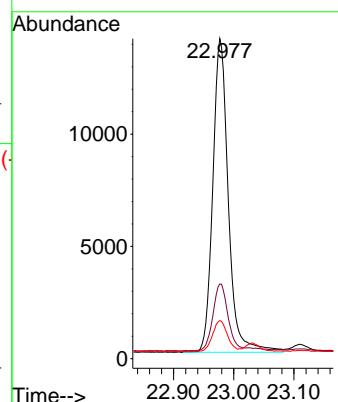




#39
 Benzo(a)pyrene
 Concen: 0.791 ng
 RT: 22.977 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035353.D
 Acq: 27 Nov 2024 17:21

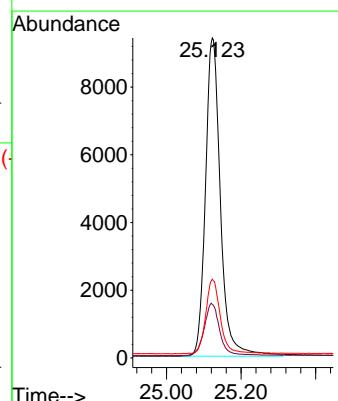
Instrument : BNA_N
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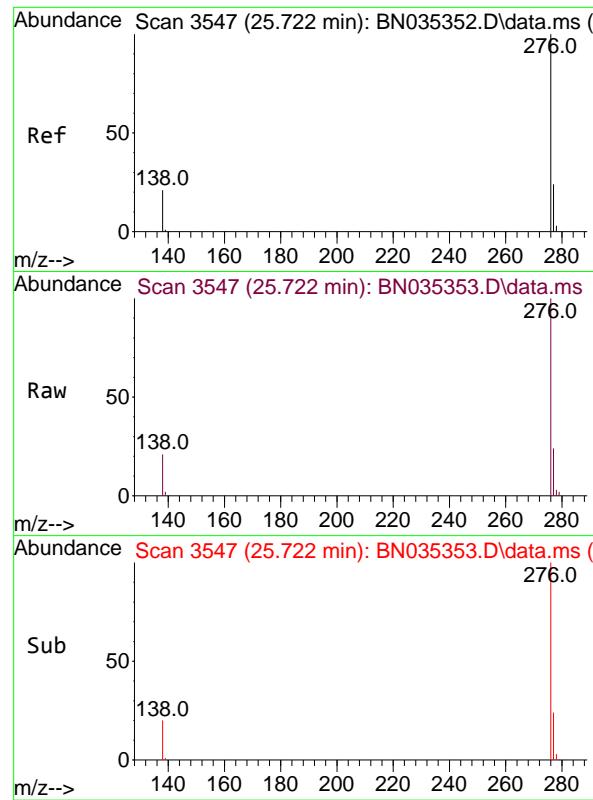
Tgt Ion:252 Resp: 25053
 Ion Ratio Lower Upper
 252 100
 253 23.3 20.2 30.4
 125 11.9 10.9 16.3



#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

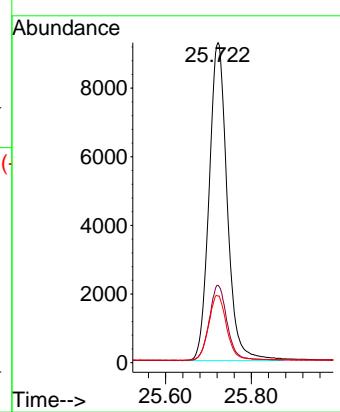
Tgt Ion:278 Resp: 26222
 Ion Ratio Lower Upper
 278 100
 139 16.7 14.2 21.4
 279 24.6 20.5 30.7





#41
Benzo(g,h,i)perylene
Concen: 0.755 ng
RT: 25.722 min Scan# 3
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035353.D
ClientSampleId : SSTDICCO.8
Acq: 27 Nov 2024 17:21

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



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

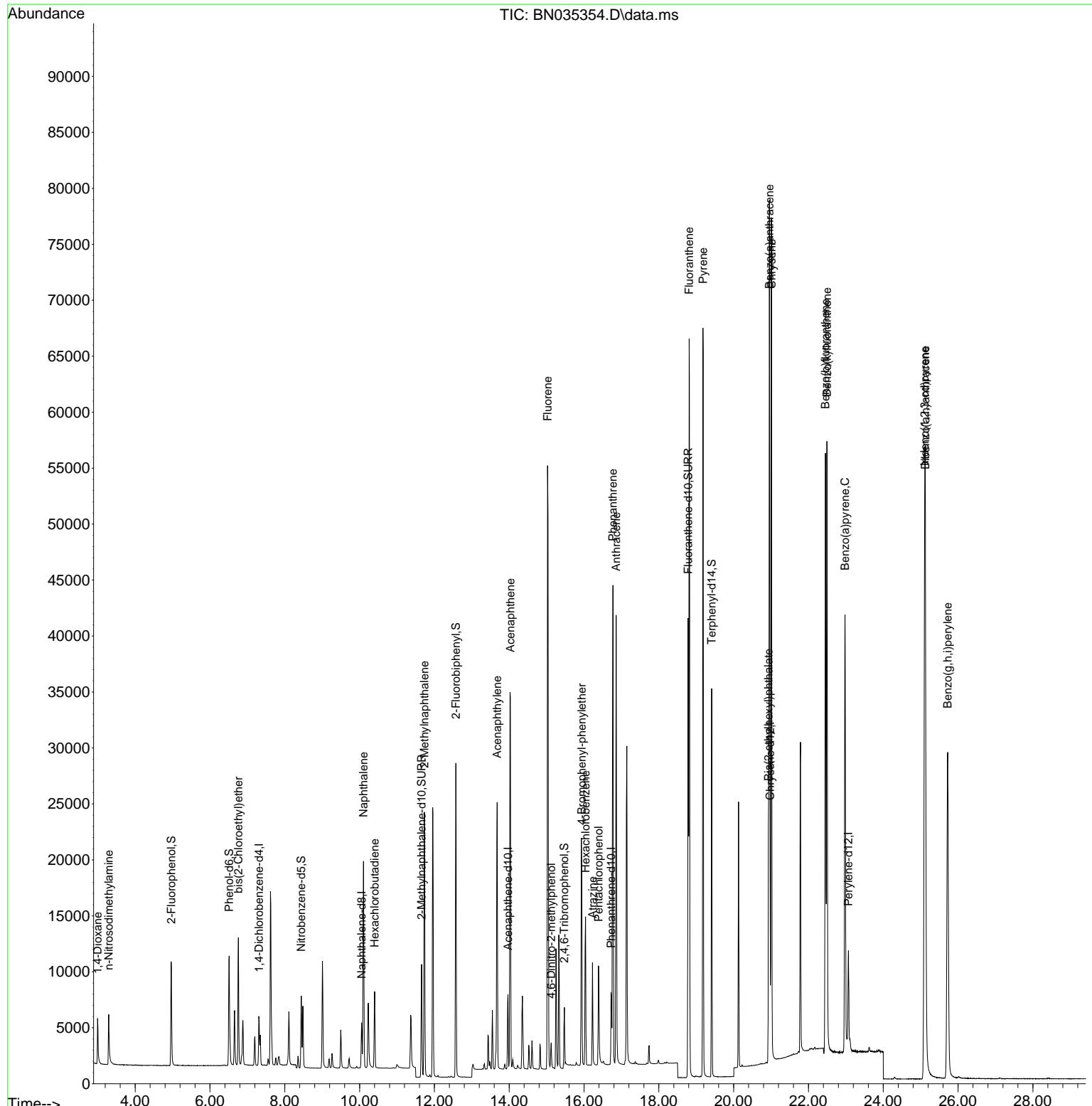
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2053	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5309	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3942	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	9517	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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

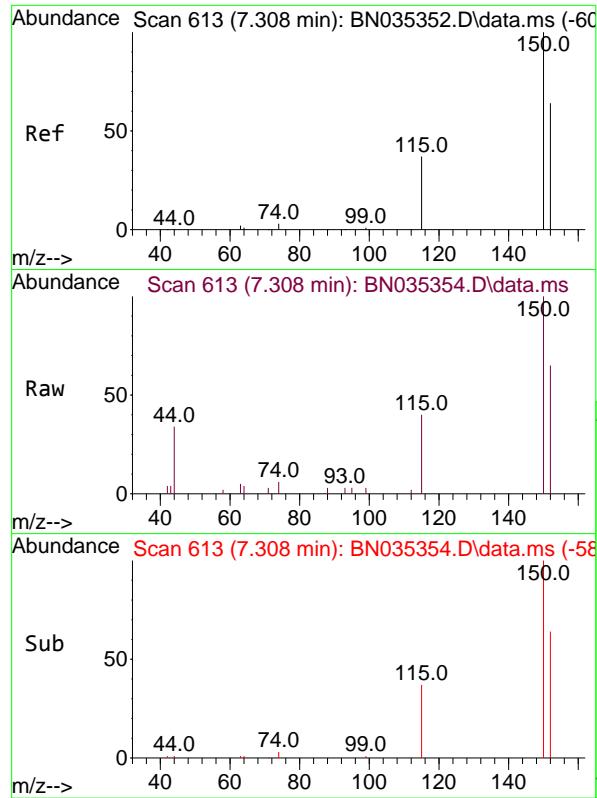
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

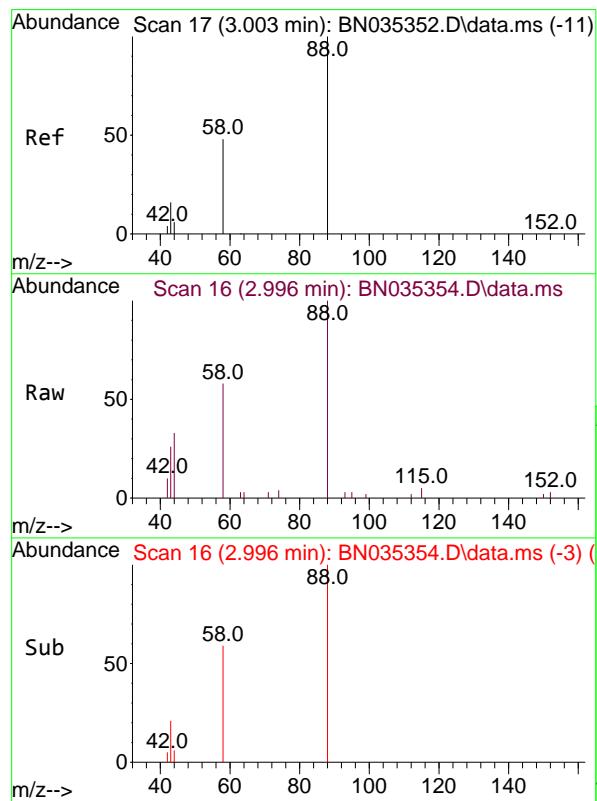
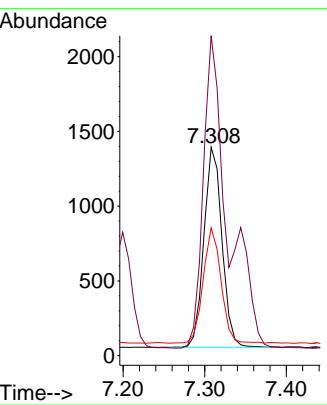




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

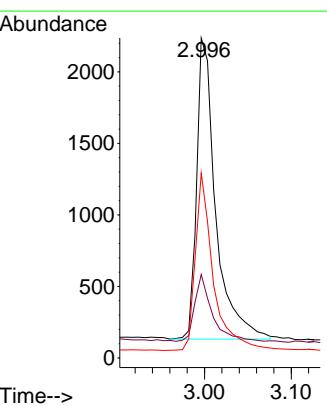
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

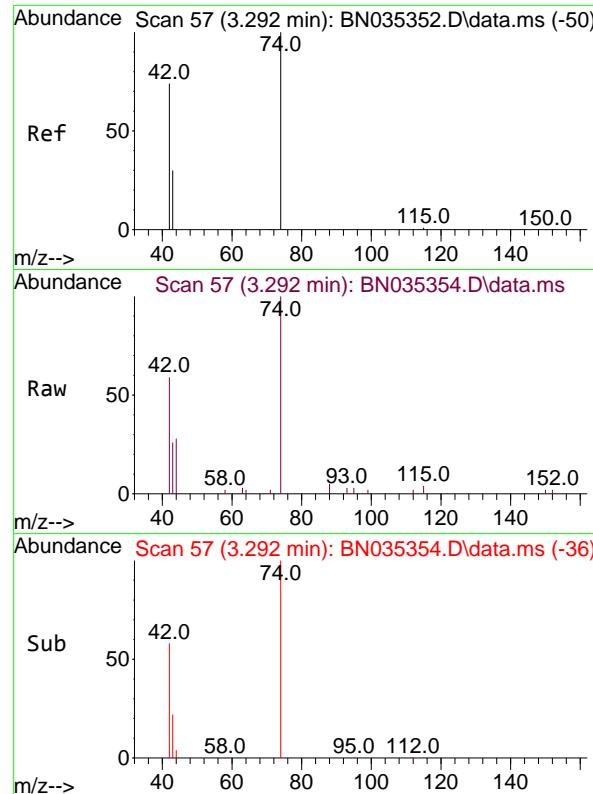
Tgt Ion:152 Resp: 2053
 Ion Ratio Lower Upper
 152 100
 150 153.6 124.0 186.0
 115 61.4 49.6 74.4



#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

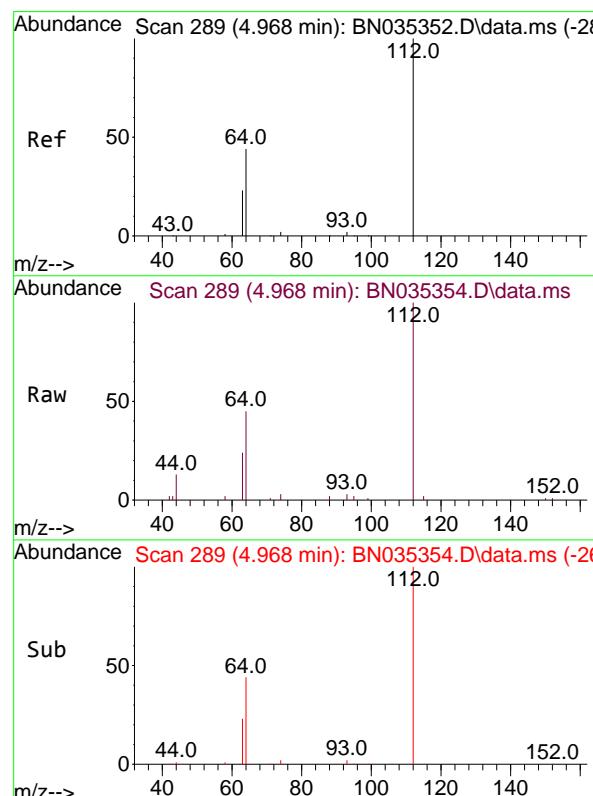
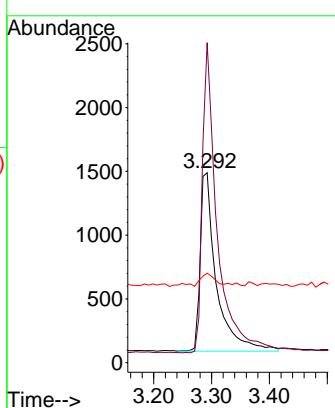




#3
n-Nitrosodimethylamine
Concen: 1.570 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

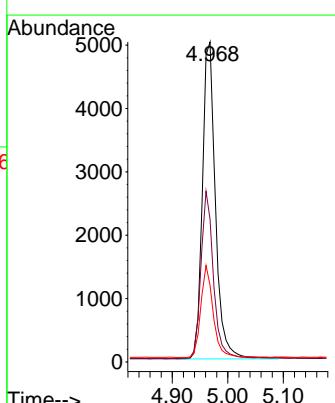
Instrument : BNA_N
ClientSampleId : SSTDICC1.6

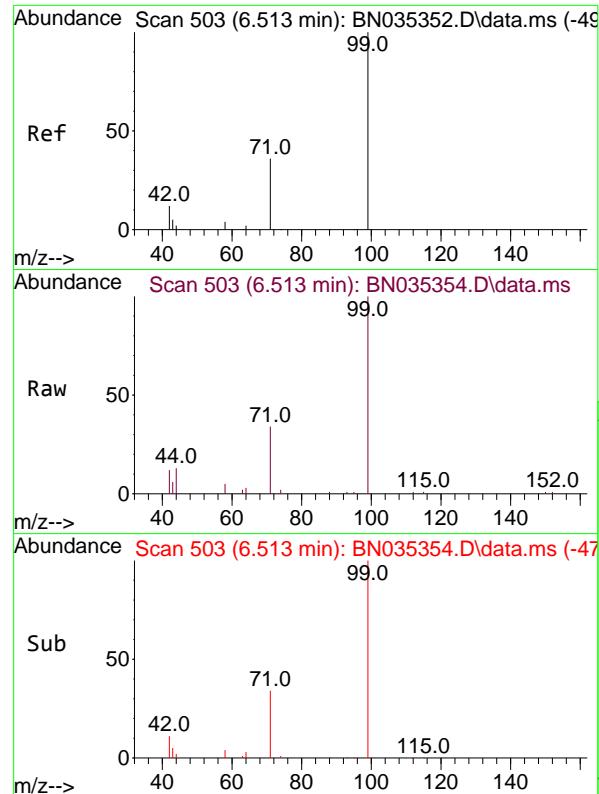
Tgt Ion: 42 Resp: 2729
Ion Ratio Lower Upper
42 100
74 160.4 124.9 187.3
44 6.2 2.2 3.4#



#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

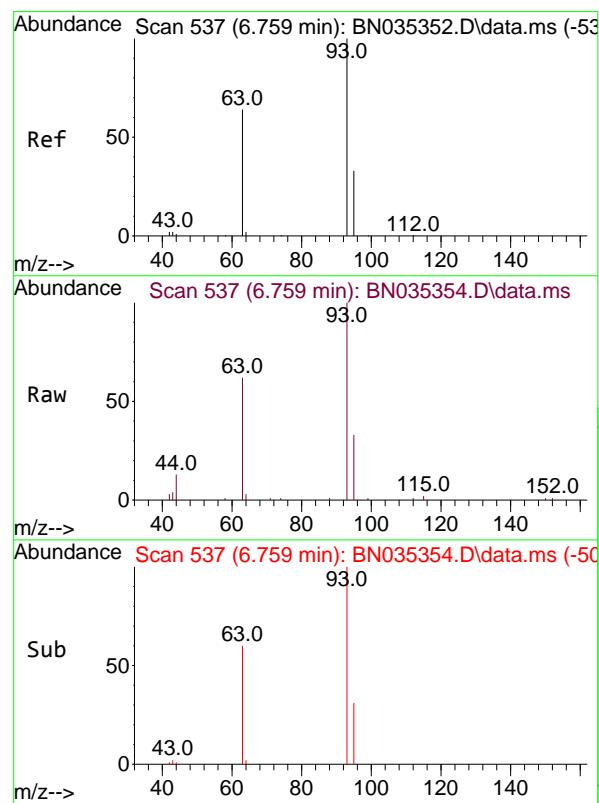
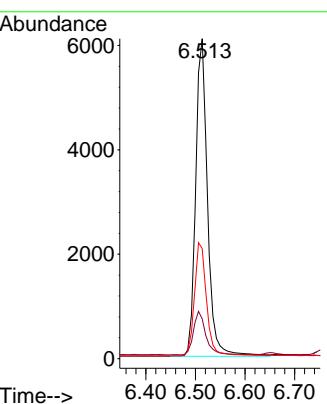




#5
 Phenol-d6
 Concen: 1.552 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

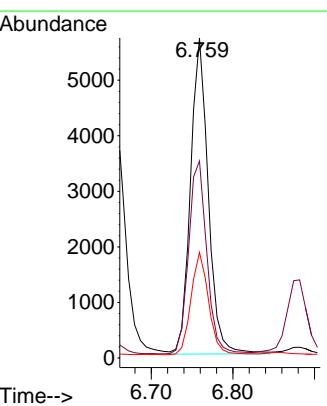
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

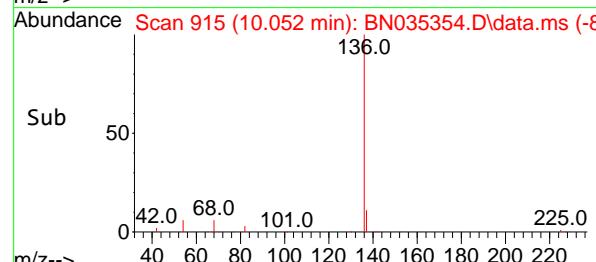
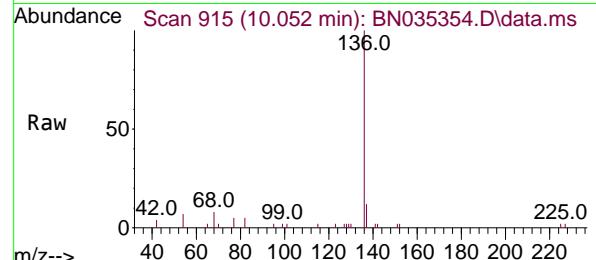
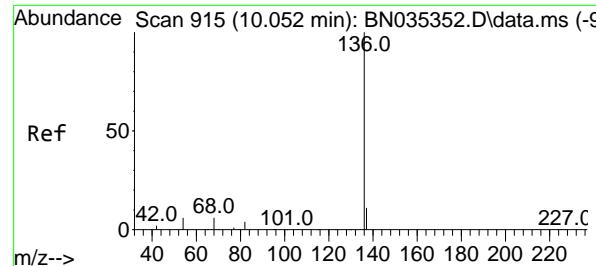
Tgt Ion: 99 Resp: 10139
 Ion Ratio Lower Upper
 99 100
 42 14.5 11.4 17.2
 71 36.3 29.3 43.9



#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# 9
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

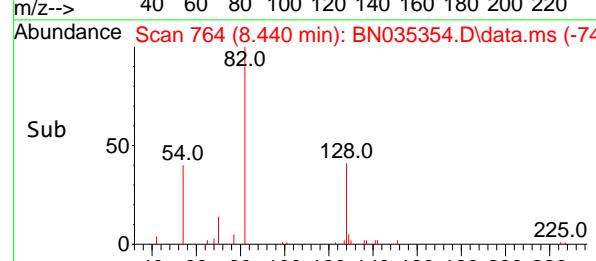
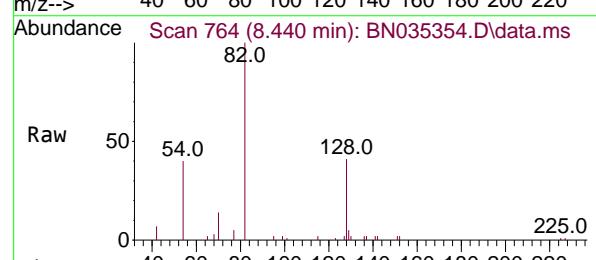
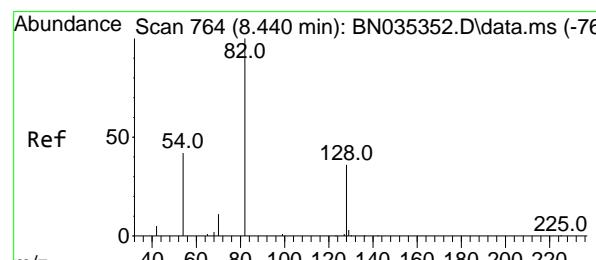
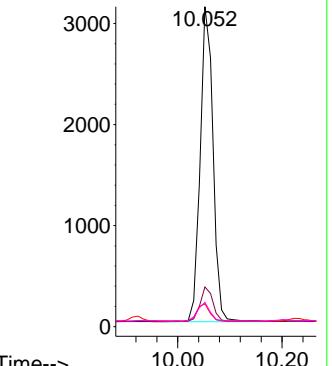
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

Tgt Ion:136 Resp: 5309

Ion Ratio Lower Upper

136	100
137	12.4
54	7.2
68	7.6
	10.2
	6.1
	6.4
	15.2
	9.1
	9.6

Abundance

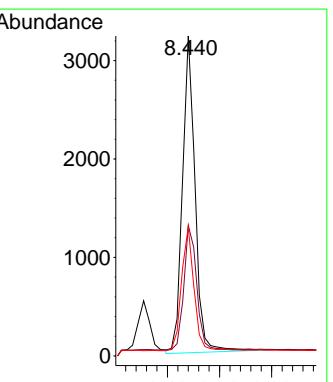


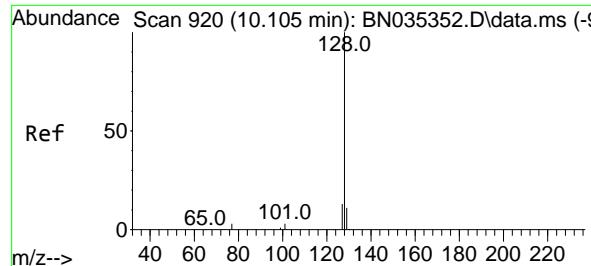
#8
 Nitrobenzene-d5
 Concen: 1.179 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

Tgt Ion: 82 Resp: 5450

Ion Ratio Lower Upper

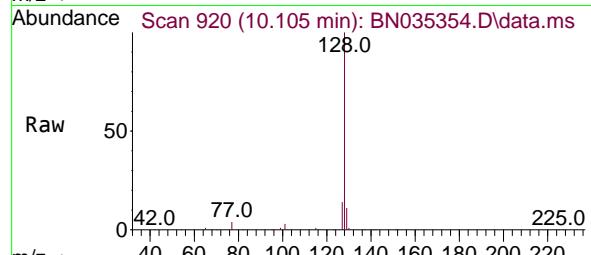
82	100
128	40.8
54	40.3
	33.4
	36.7
	50.0
	55.1



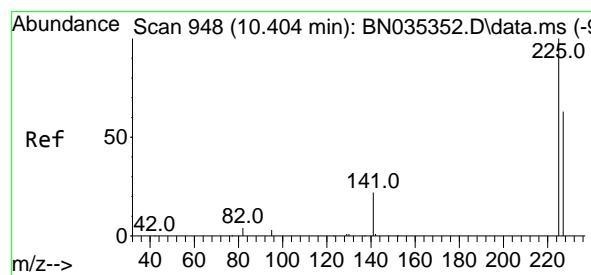
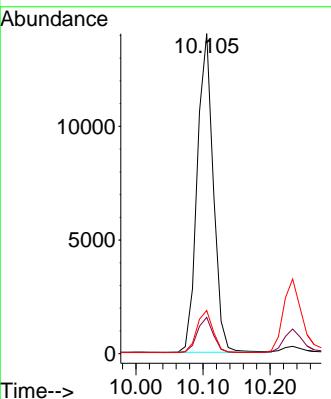
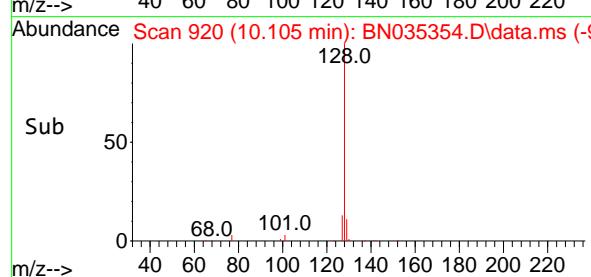


#9
 Naphthalene
 Concen: 1.680 ng
 RT: 10.105 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

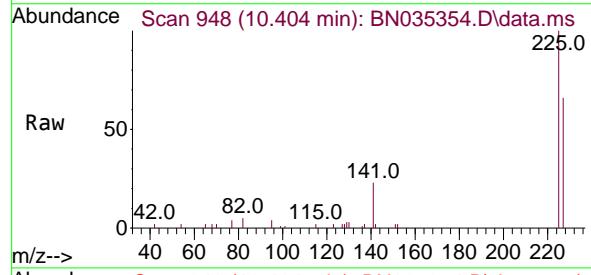
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6



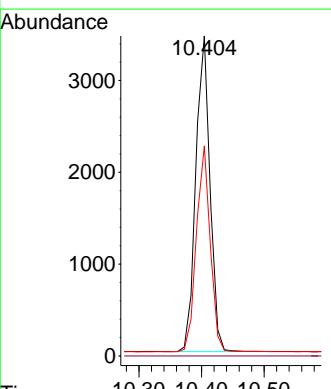
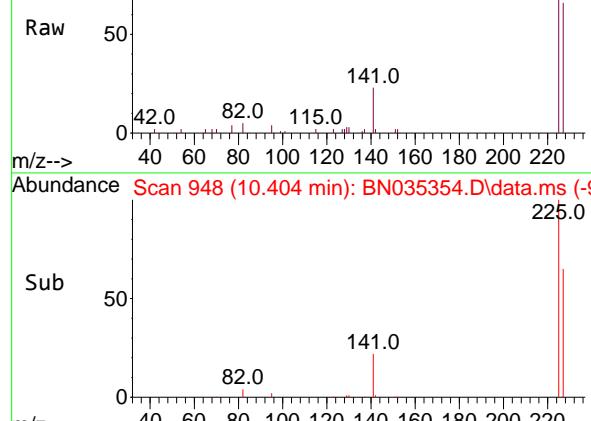
Tgt Ion:128 Resp: 23280
 Ion Ratio Lower Upper
 128 100
 129 11.4 9.8 14.6
 127 13.5 11.4 17.2

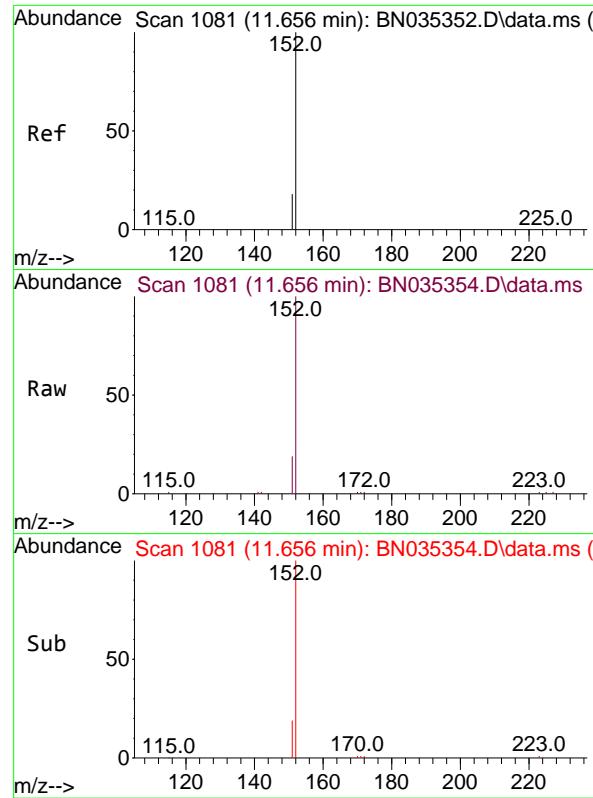


#10
 Hexachlorobutadiene
 Concen: 1.331 ng
 RT: 10.404 min Scan# 948
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57



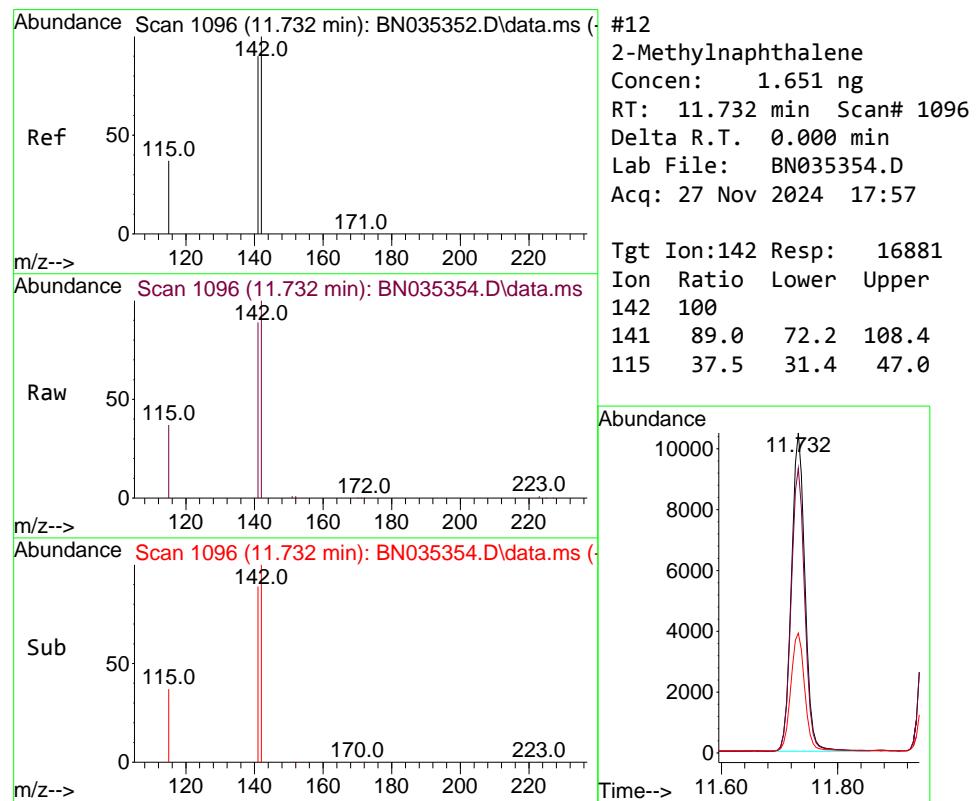
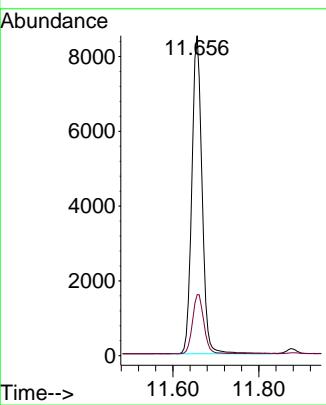
Tgt Ion:225 Resp: 5409
 Ion Ratio Lower Upper
 225 100
 223 0.0 0.0 0.0
 227 63.9 51.3 76.9





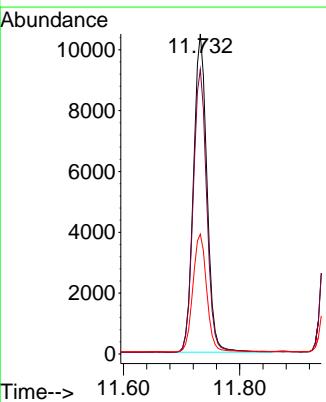
#11
2-Methylnaphthalene-d10
Concen: 1.478 ng
RT: 11.656 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035354.D
ClientSampleId : SSTDICC1.6
Acq: 27 Nov 2024 17:57

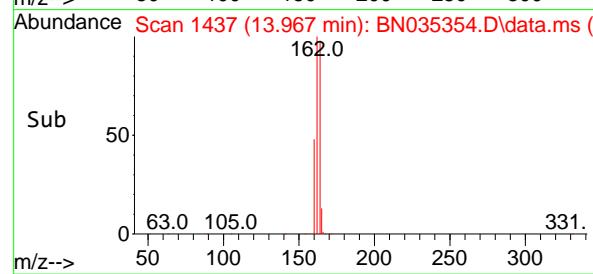
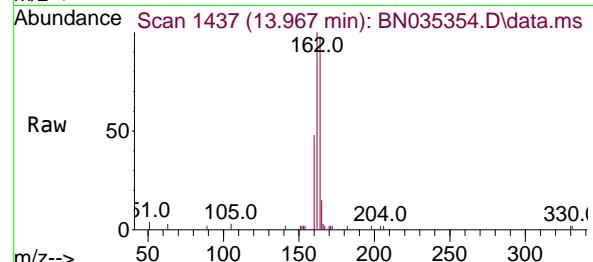
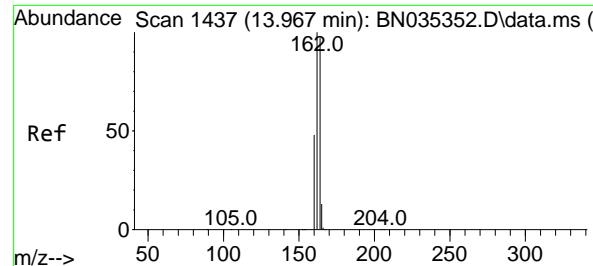
Tgt Ion:152 Resp: 13988
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0



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

Tgt Ion:142 Resp: 16881
Ion Ratio Lower Upper
142 100
141 89.0 72.2 108.4
115 37.5 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 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

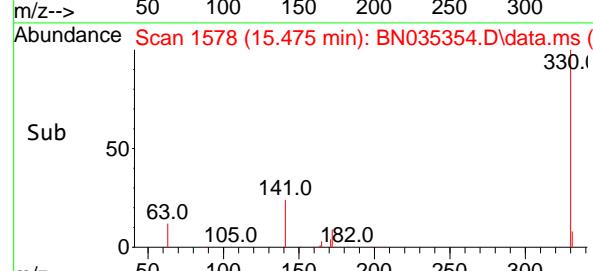
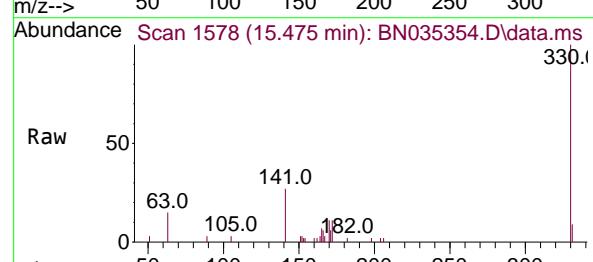
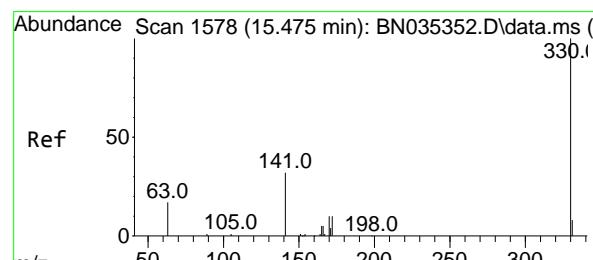
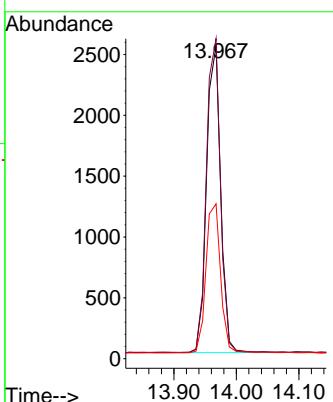
Tgt Ion:164 Resp: 3942

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

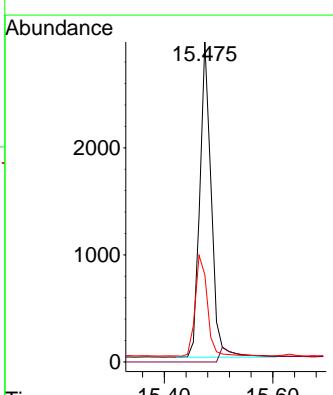
Tgt Ion:330 Resp: 4615

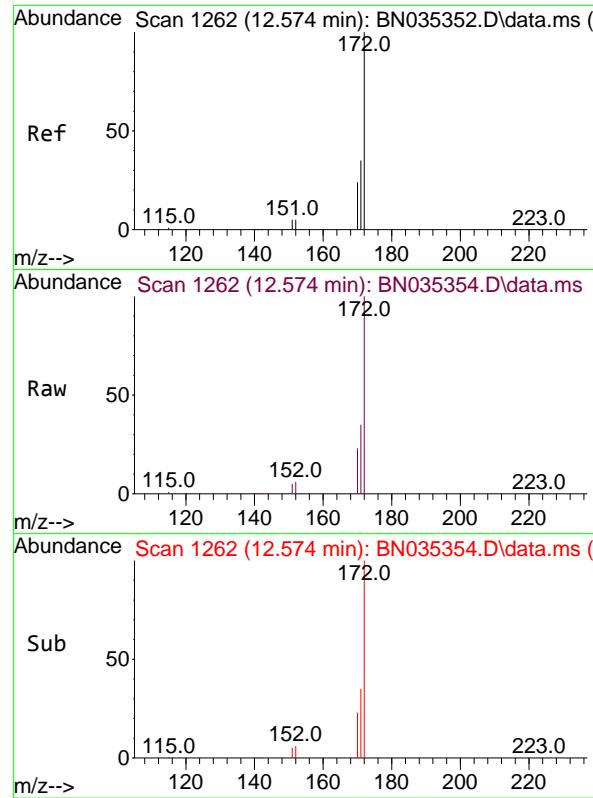
Ion Ratio Lower Upper

330 100

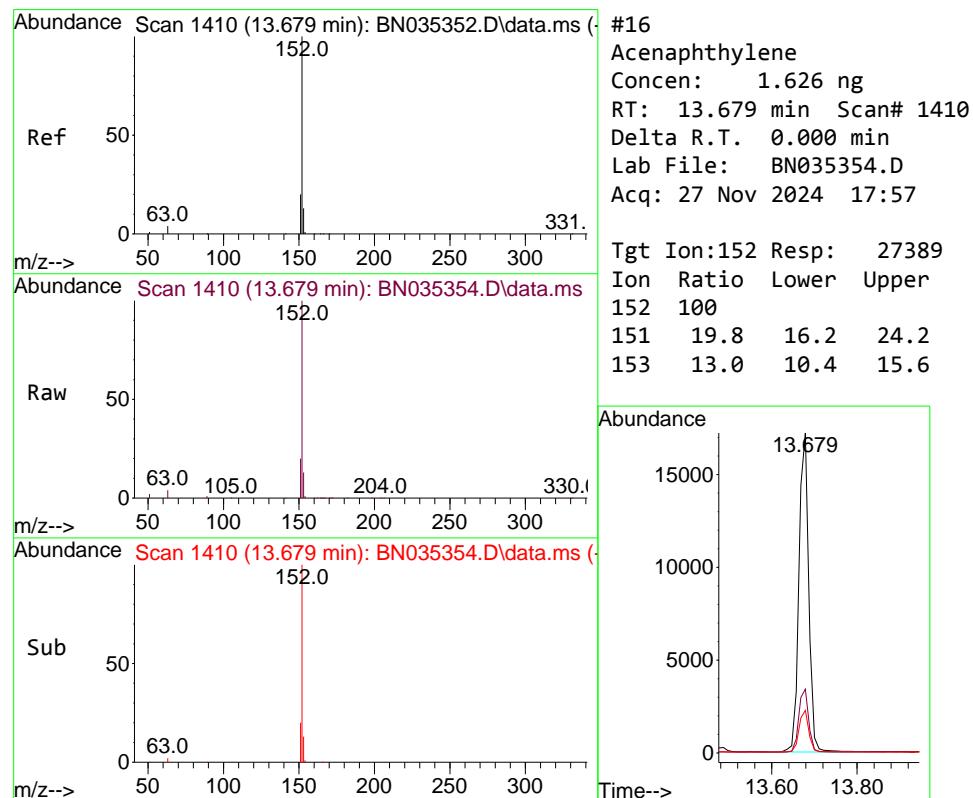
332 0.0 0.0 0.0

141 33.6 26.6 40.0



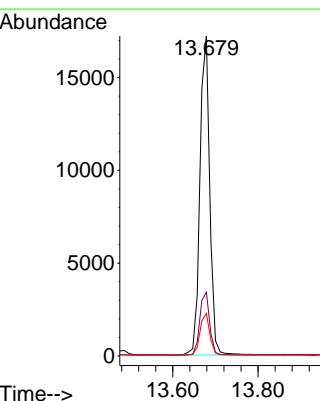


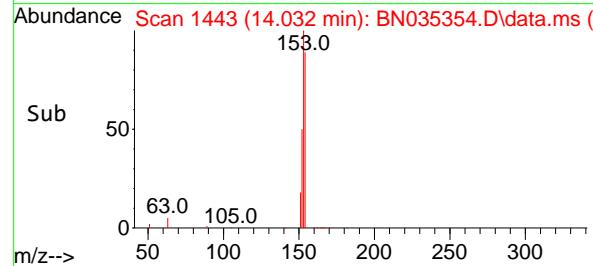
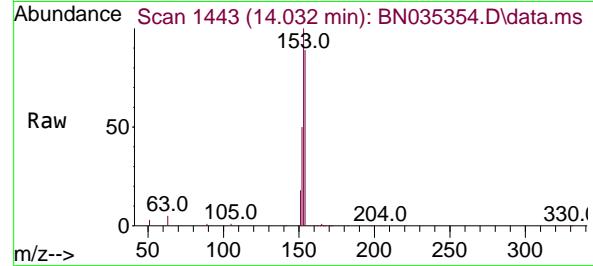
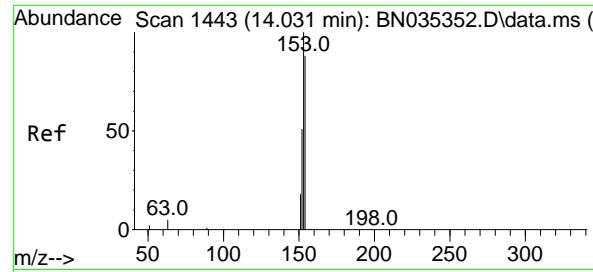
#15
2-Fluorobiphenyl
Concen: 1.542 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57
ClientSampleId : SSTDICC1.6



#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# 1

Delta R.T. 0.000 min

Lab File: BN035354.D

Acq: 27 Nov 2024 17:57

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

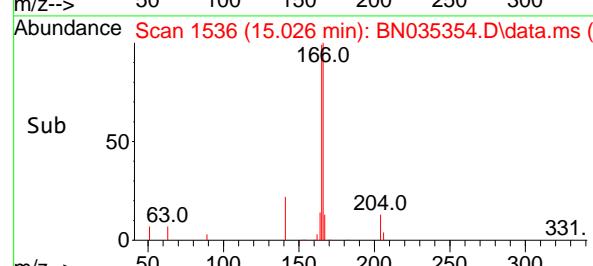
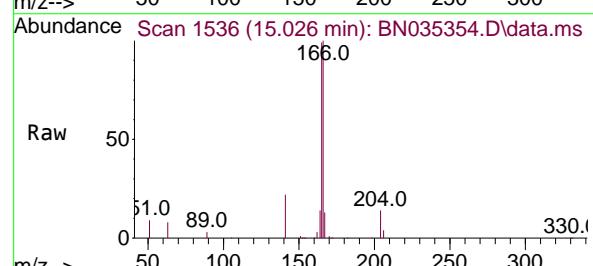
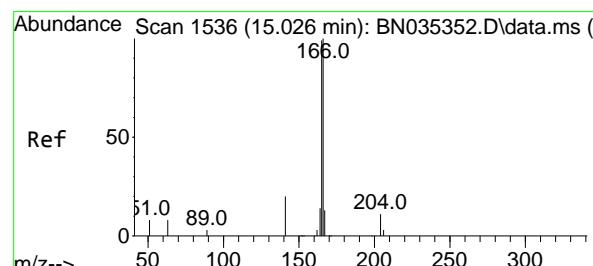
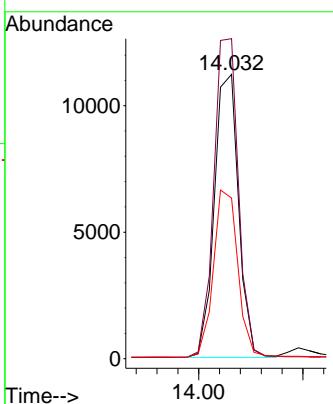
Tgt Ion:154 Resp: 18061

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

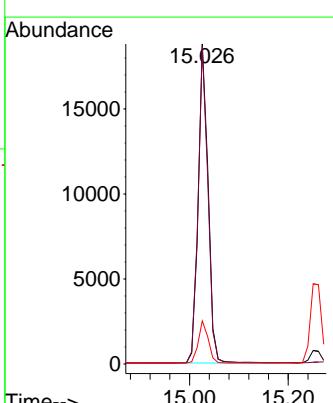
Tgt Ion:166 Resp: 26044

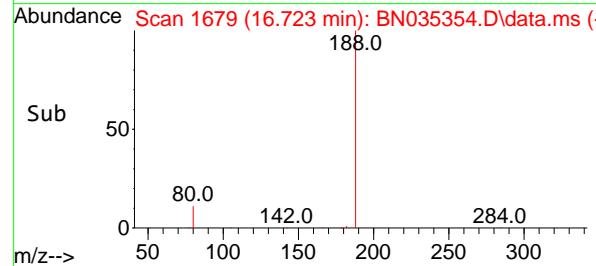
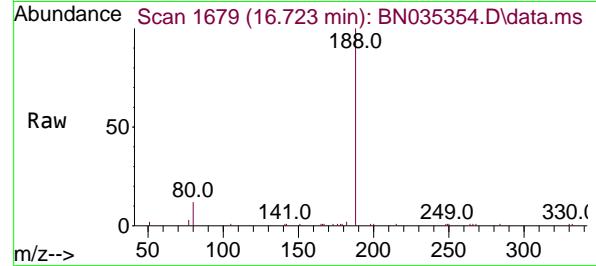
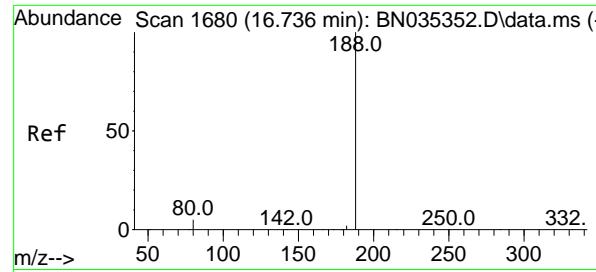
Ion Ratio Lower Upper

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

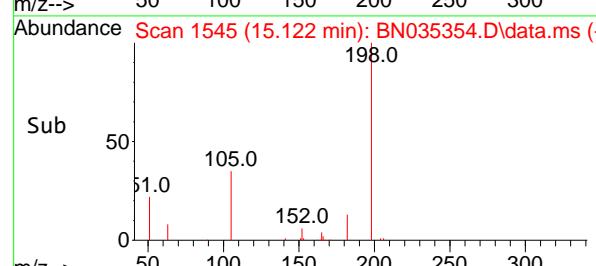
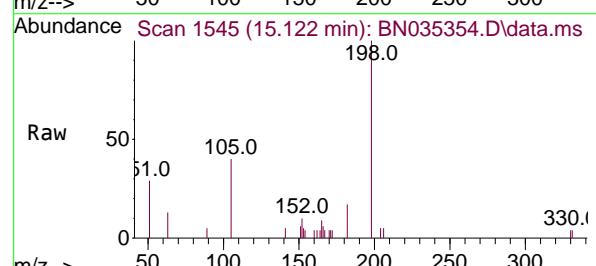
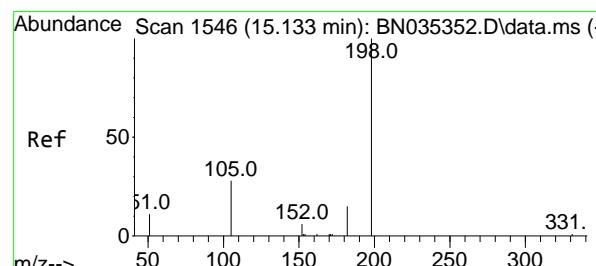
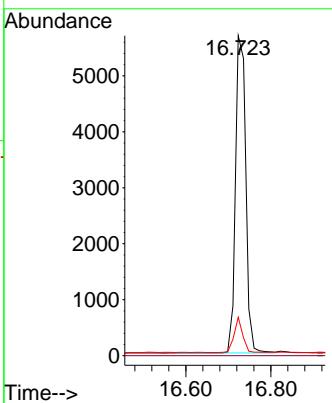
Tgt Ion:188 Resp: 9517

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

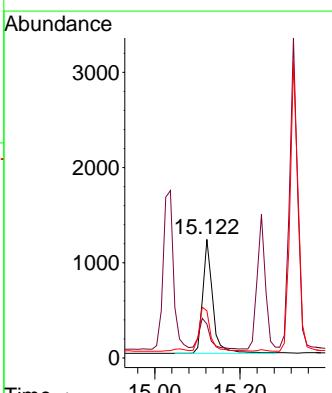
Tgt Ion:198 Resp: 1947

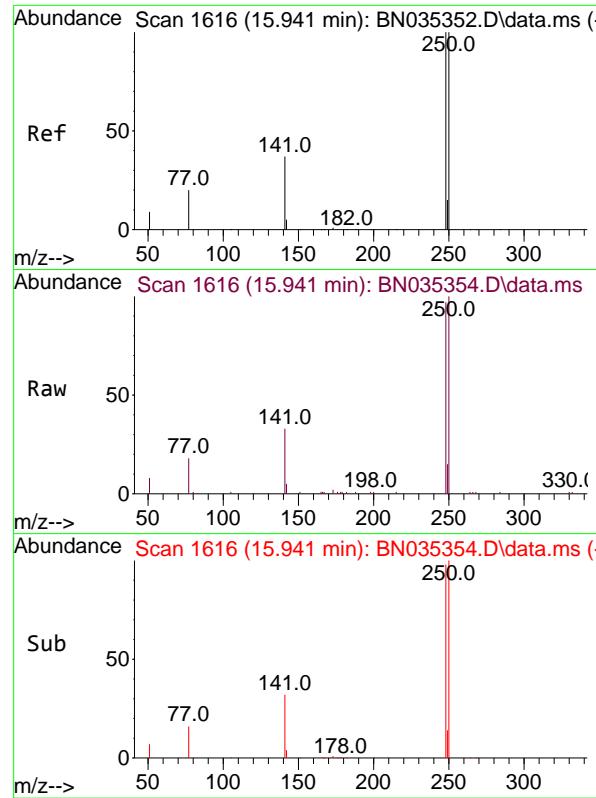
Ion Ratio Lower Upper

198 100

51 28.6 46.5 69.7#

105 39.8 45.3 67.9#

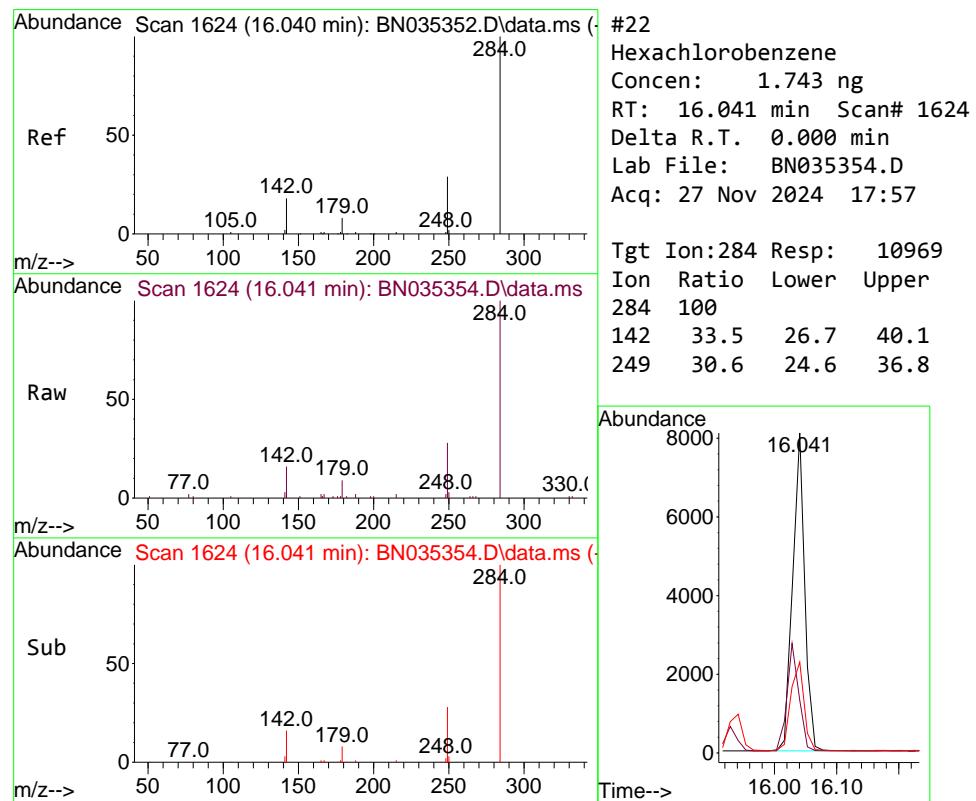
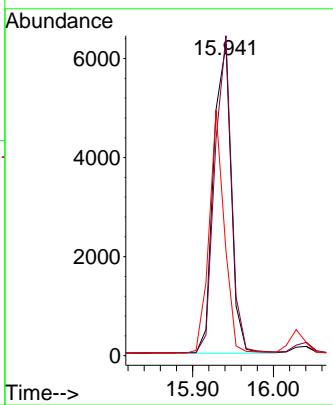




#21
4-Bromophenyl-phenylether
Concen: 1.566 ng
RT: 15.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

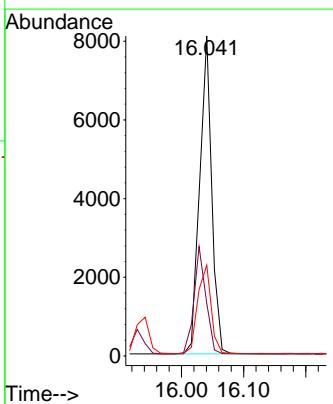
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

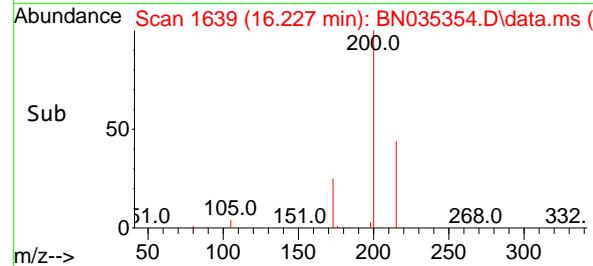
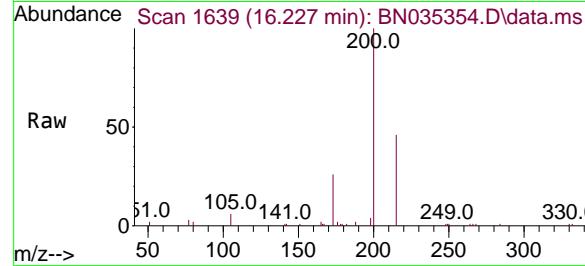
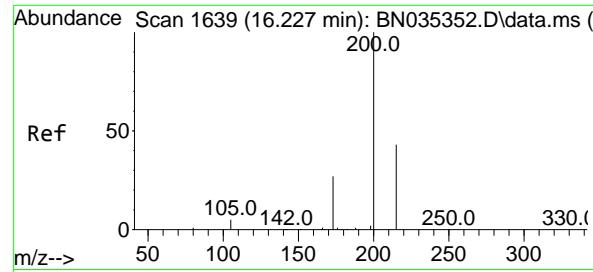
Tgt Ion:248 Resp: 9493
Ion Ratio Lower Upper
248 100
250 102.7 80.6 120.8
141 33.7 31.5 47.3



#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

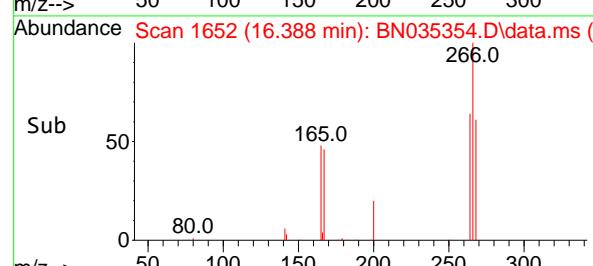
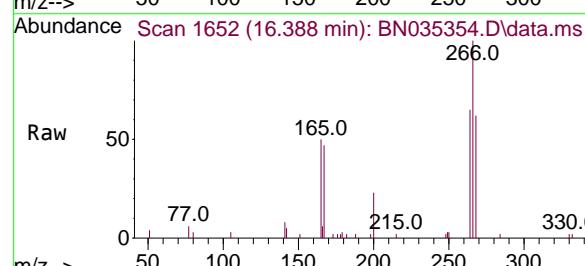
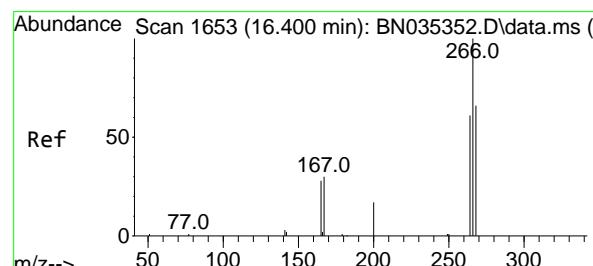
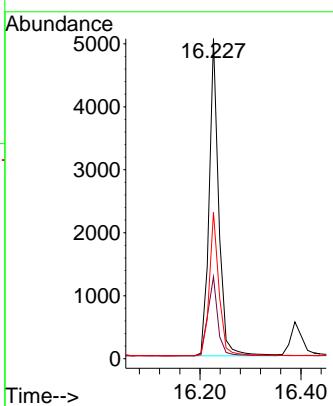




#23
Atrazine
Concen: 1.221 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

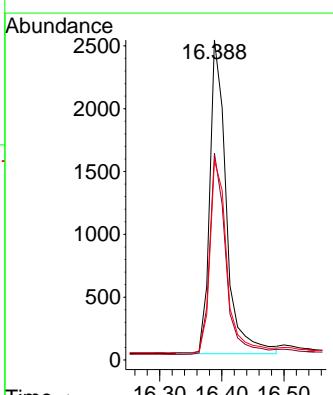
Instrument : BNA_N
ClientSampleId : SSTDICC1.6

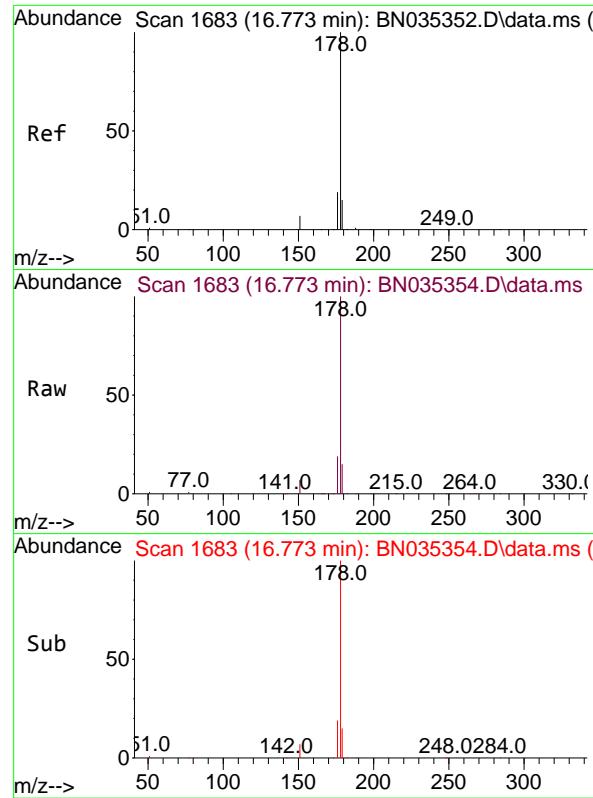
Tgt Ion:200 Resp: 6644
Ion Ratio Lower Upper
200 100
173 25.6 24.1 36.1
215 45.8 36.9 55.3



#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

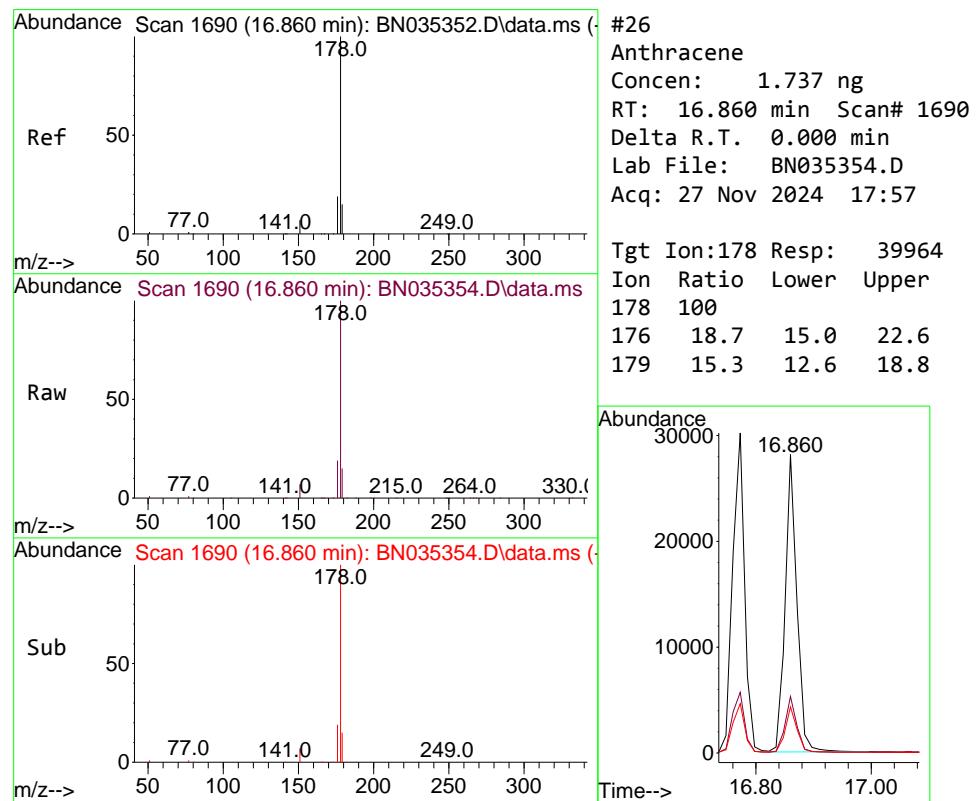
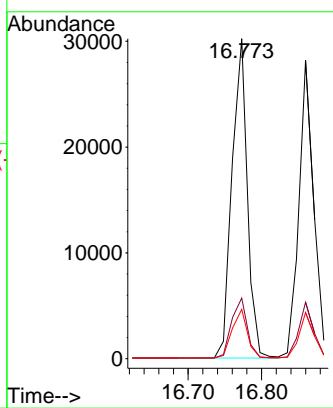




#25
Phenanthrene
Concen: 1.745 ng
RT: 16.773 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

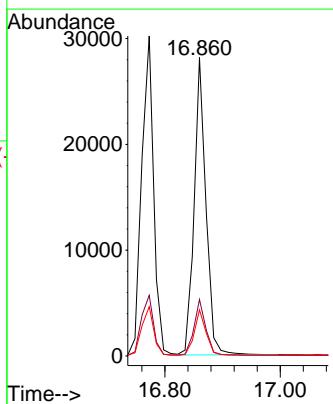
Instrument : BNA_N
ClientSampleId : SSTDICC1.6

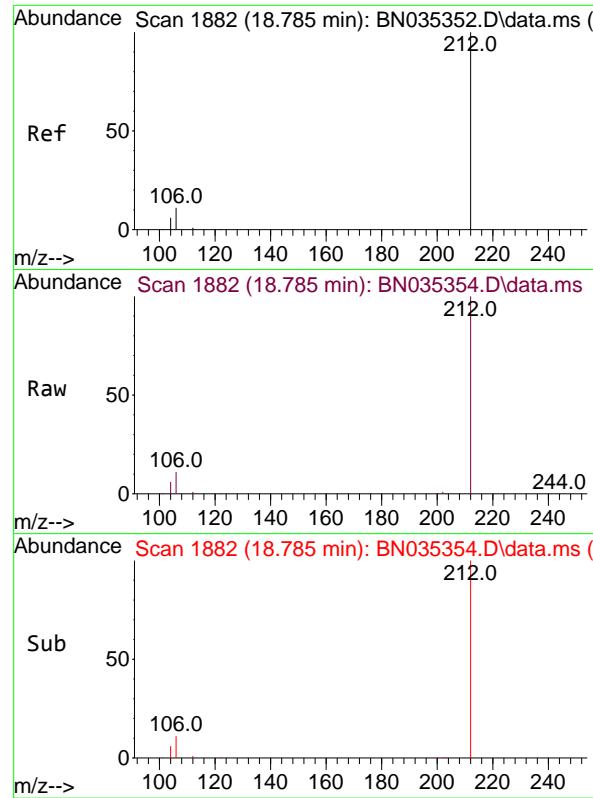
Tgt Ion:178 Resp: 43698
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.2 12.3 18.5



#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

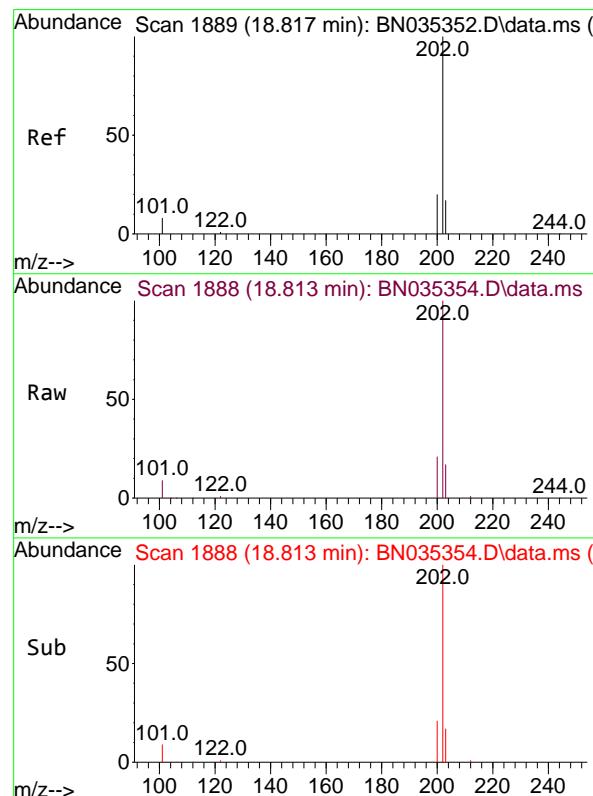
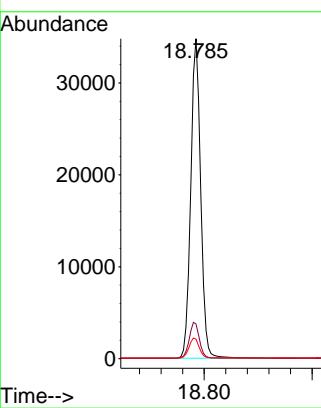




#27
 Fluoranthene-d10
 Concen: 1.521 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

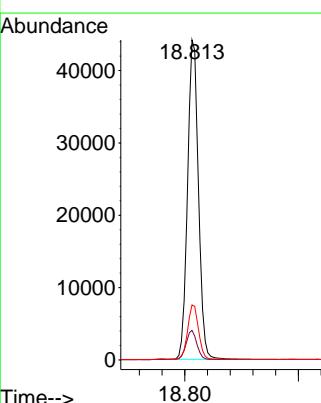
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 ClientSampleId : SSTDICC1.6

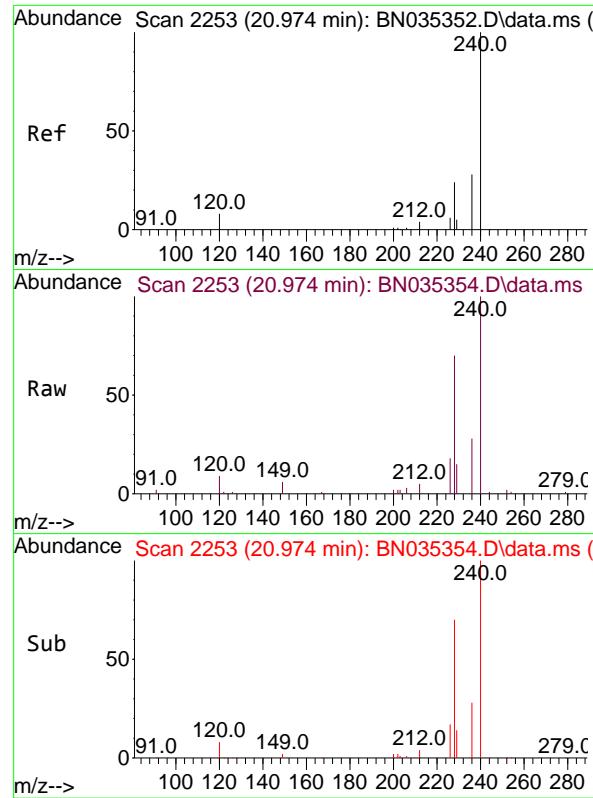
Tgt Ion:212 Resp: 44338
 Ion Ratio Lower Upper
 212 100
 106 11.4 9.2 13.8
 104 6.4 5.3 7.9



#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

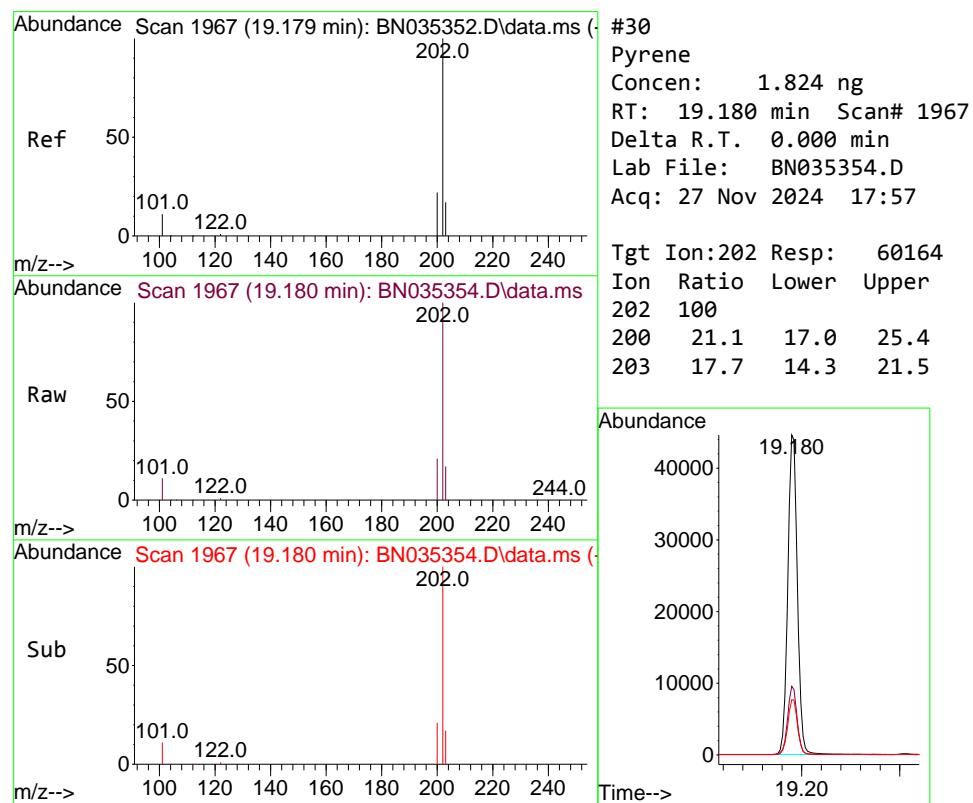
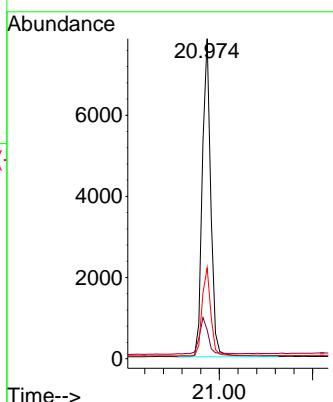




#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

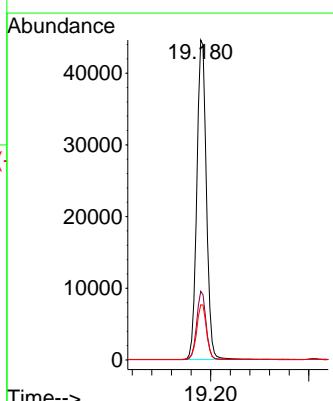
Instrument : BNA_N
ClientSampleId : SSTDICC1.6

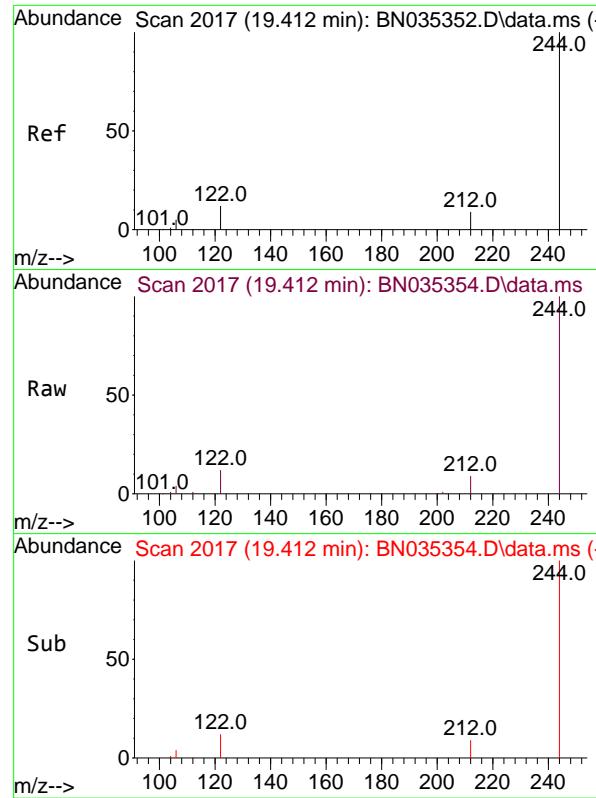
Tgt Ion:240 Resp: 9905
Ion Ratio Lower Upper
240 100
120 9.0 7.9 11.9
236 28.4 22.9 34.3



#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

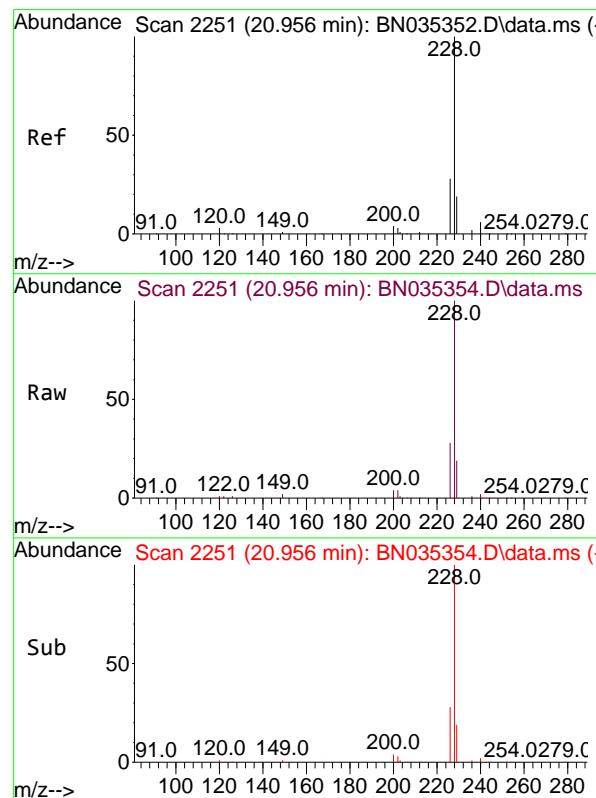
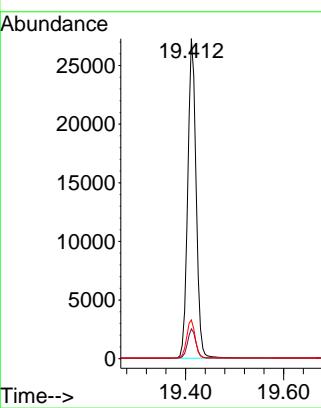




#31
Terphenyl-d14
Concen: 1.548 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

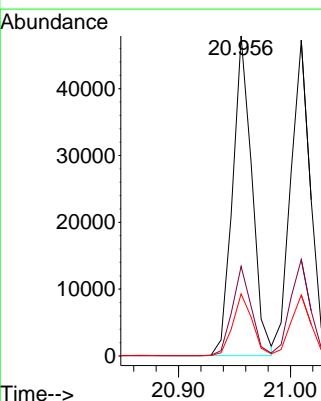
Instrument : BNA_N
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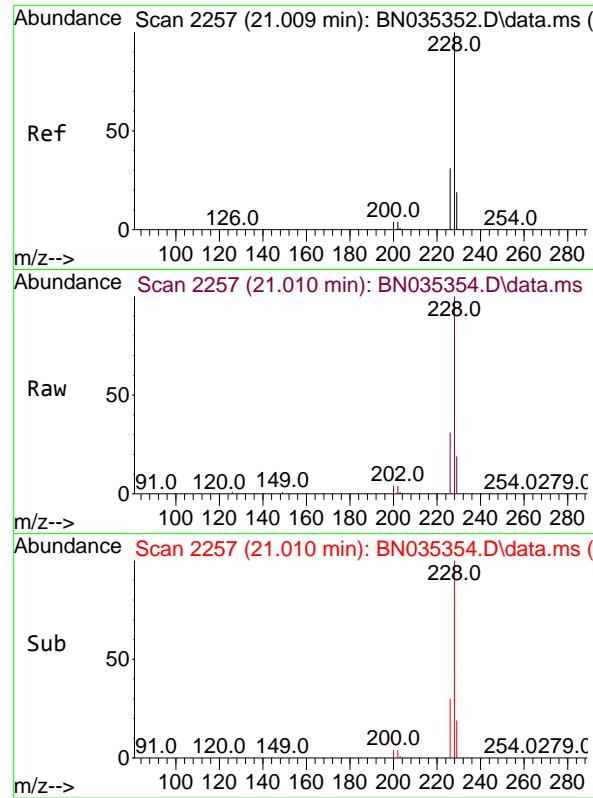
Tgt Ion:244 Resp: 32174
Ion Ratio Lower Upper
244 100
212 9.3 8.1 12.1
122 12.1 10.3 15.5



#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

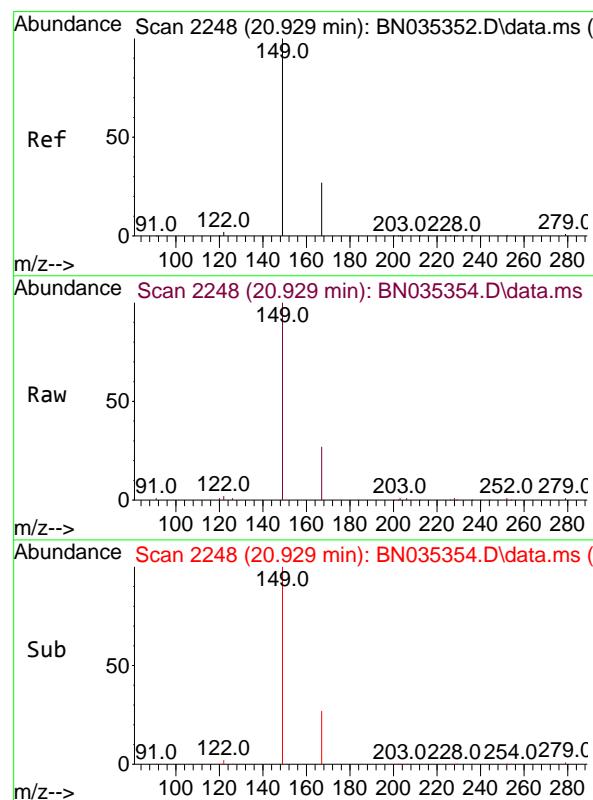
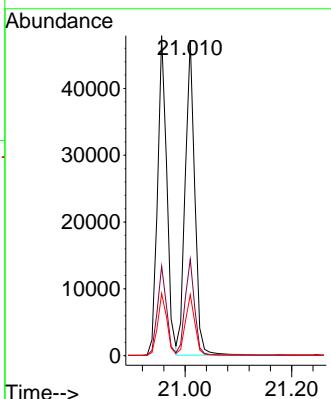
Tgt Ion:228 Resp: 57498
Ion Ratio Lower Upper
228 100
226 28.0 22.5 33.7
229 19.4 15.8 23.8





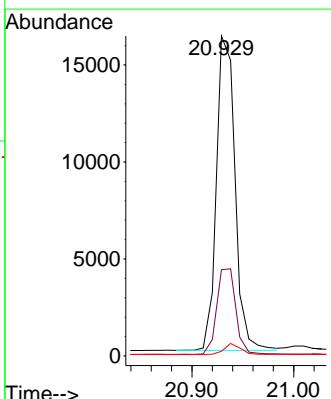
#33
Chrysene
Concen: 1.725 ng
RT: 21.010 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57
ClientSampleId : SSTDICC1.6

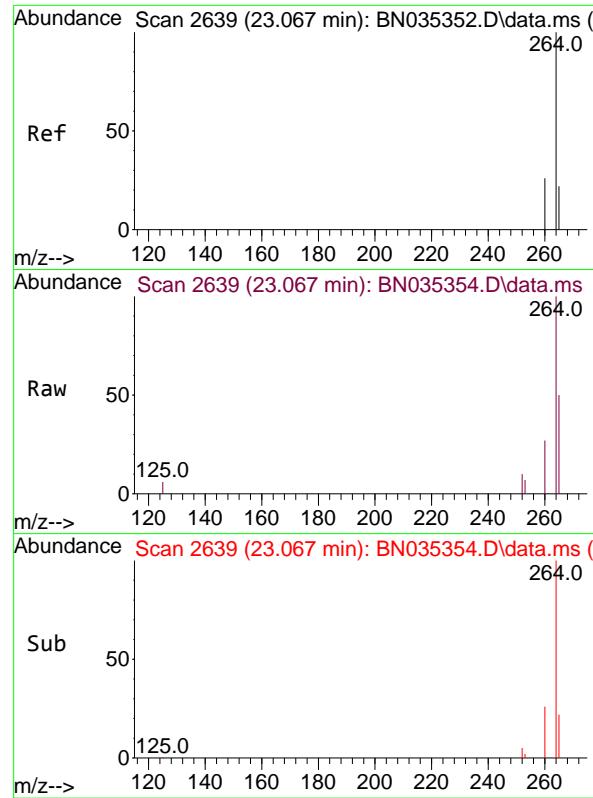
Tgt Ion:228 Resp: 58919
Ion Ratio Lower Upper
228 100
226 30.6 24.6 37.0
229 19.3 15.9 23.9



#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

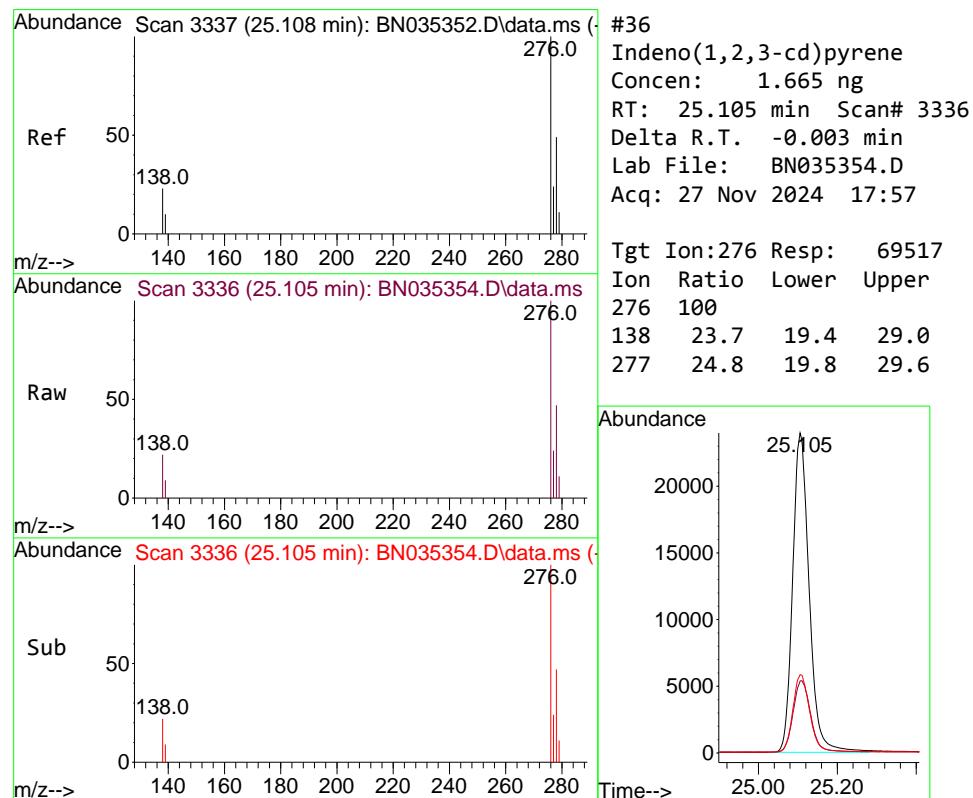
Tgt Ion:149 Resp: 20598
Ion Ratio Lower Upper
149 100
167 28.0 22.2 33.4
279 3.2 2.7 4.1





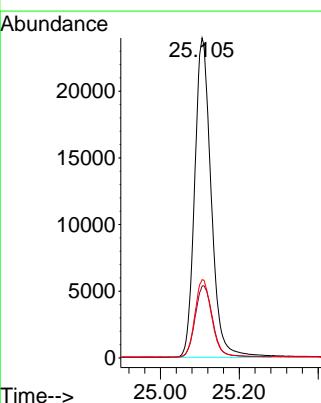
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035354.D
Acq: 27 Nov 2024 17:57

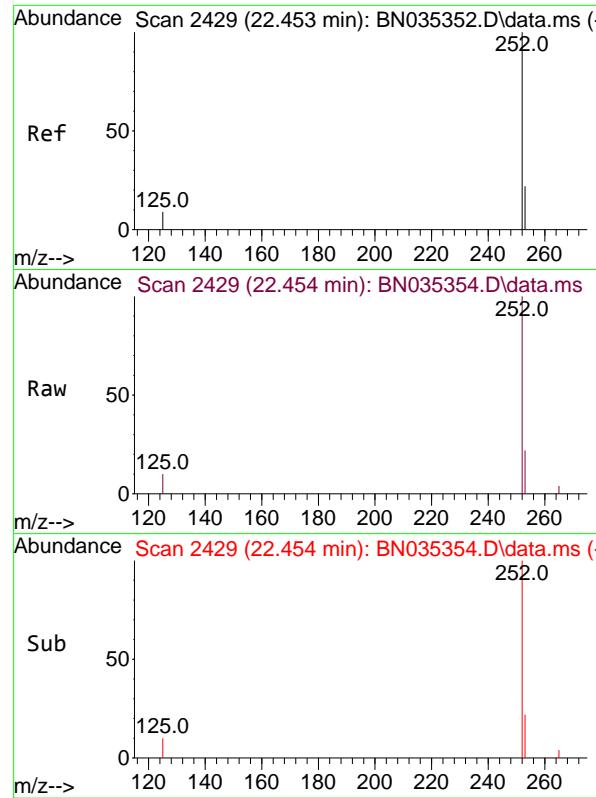
Instrument : BNA_N
ClientSampleId : SSTDICC1.6



#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

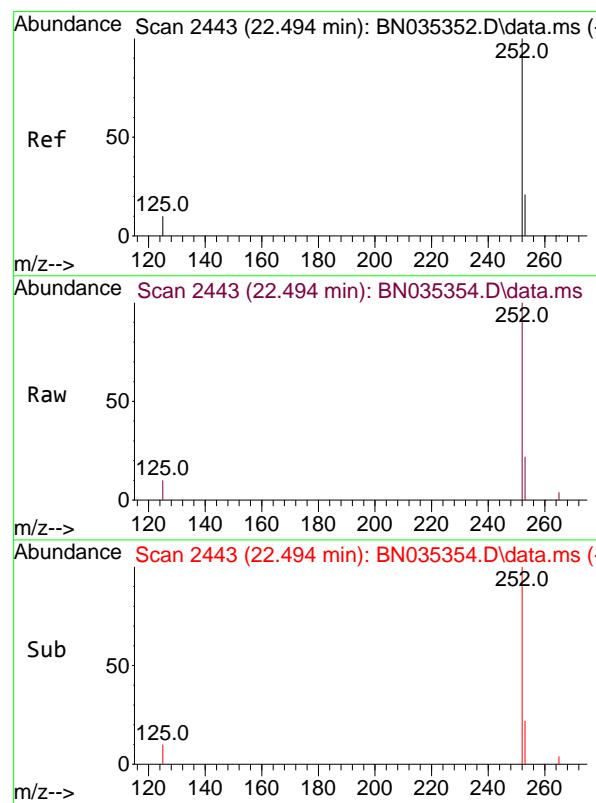
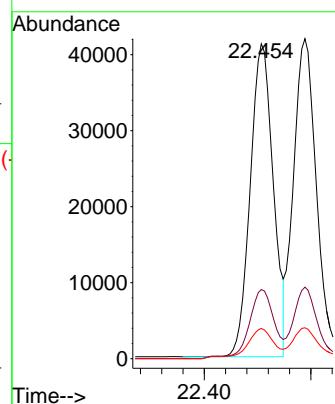




#37
 Benzo(b)fluoranthene
 Concen: 2.172 ng
 RT: 22.454 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

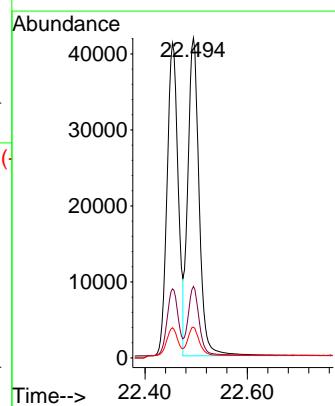
Instrument : BNA_N
 ClientSampleId : SSTDICC1.6

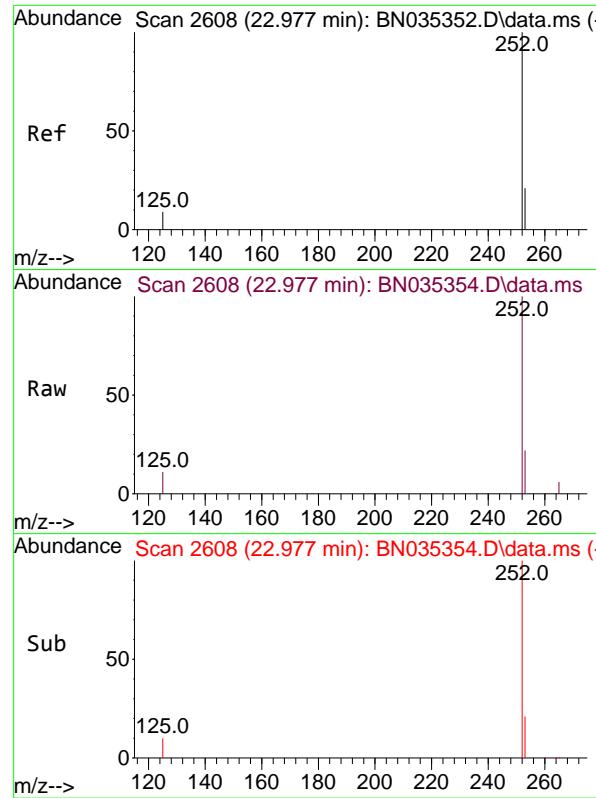
Tgt Ion:252 Resp: 76506
 Ion Ratio Lower Upper
 252 100
 253 22.0 19.6 29.4
 125 9.6 9.6 14.4



#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

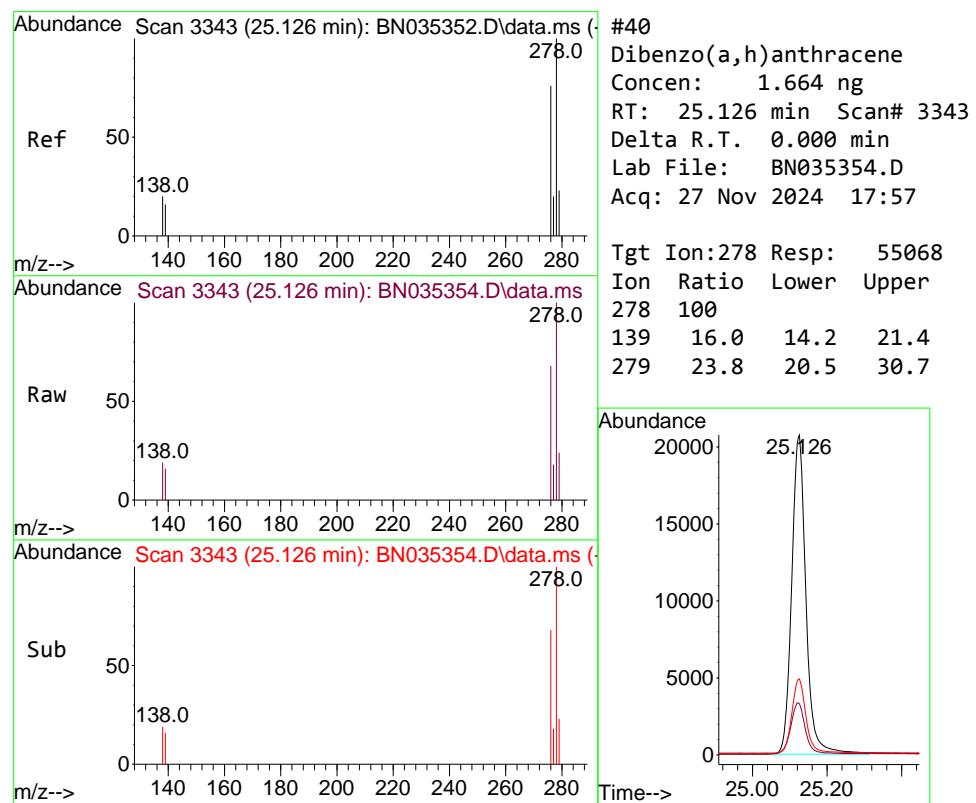
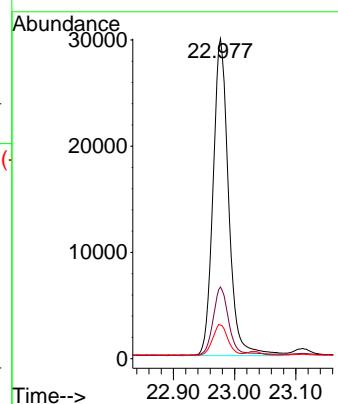
Tgt Ion:252 Resp: 63925
 Ion Ratio Lower Upper
 252 100
 253 22.3 19.5 29.3
 125 9.7 10.2 15.4#





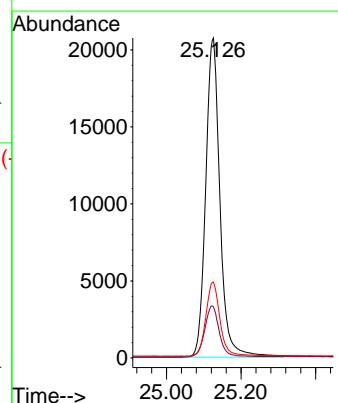
#39
 Benzo(a)pyrene
 Concen: 1.697 ng
 RT: 22.977 min Scan# 2
Instrument : BNA_N
 Delta R.T. 0.000 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57
ClientSampleId : SSTDICC1.6

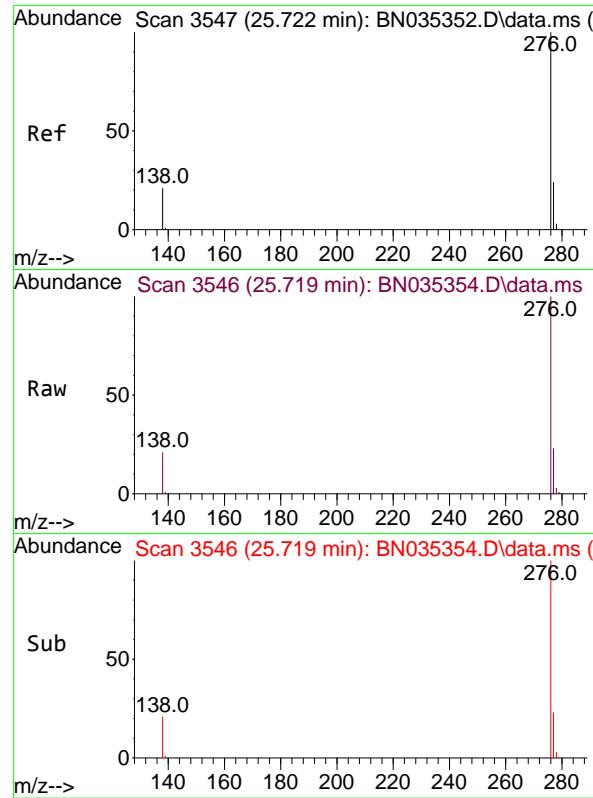
Tgt Ion:252 Resp: 52595
 Ion Ratio Lower Upper
 252 100
 253 22.4 20.2 30.4
 125 10.5 10.9 16.3#



#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

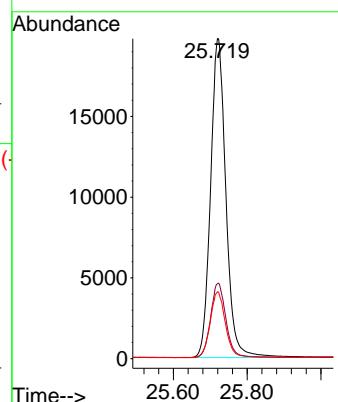




#41
 Benzo(g,h,i)perylene
 Concen: 1.618 ng
 RT: 25.719 min Scan# 3
 Delta R.T. -0.003 min
 Lab File: BN035354.D
 Acq: 27 Nov 2024 17:57

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



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

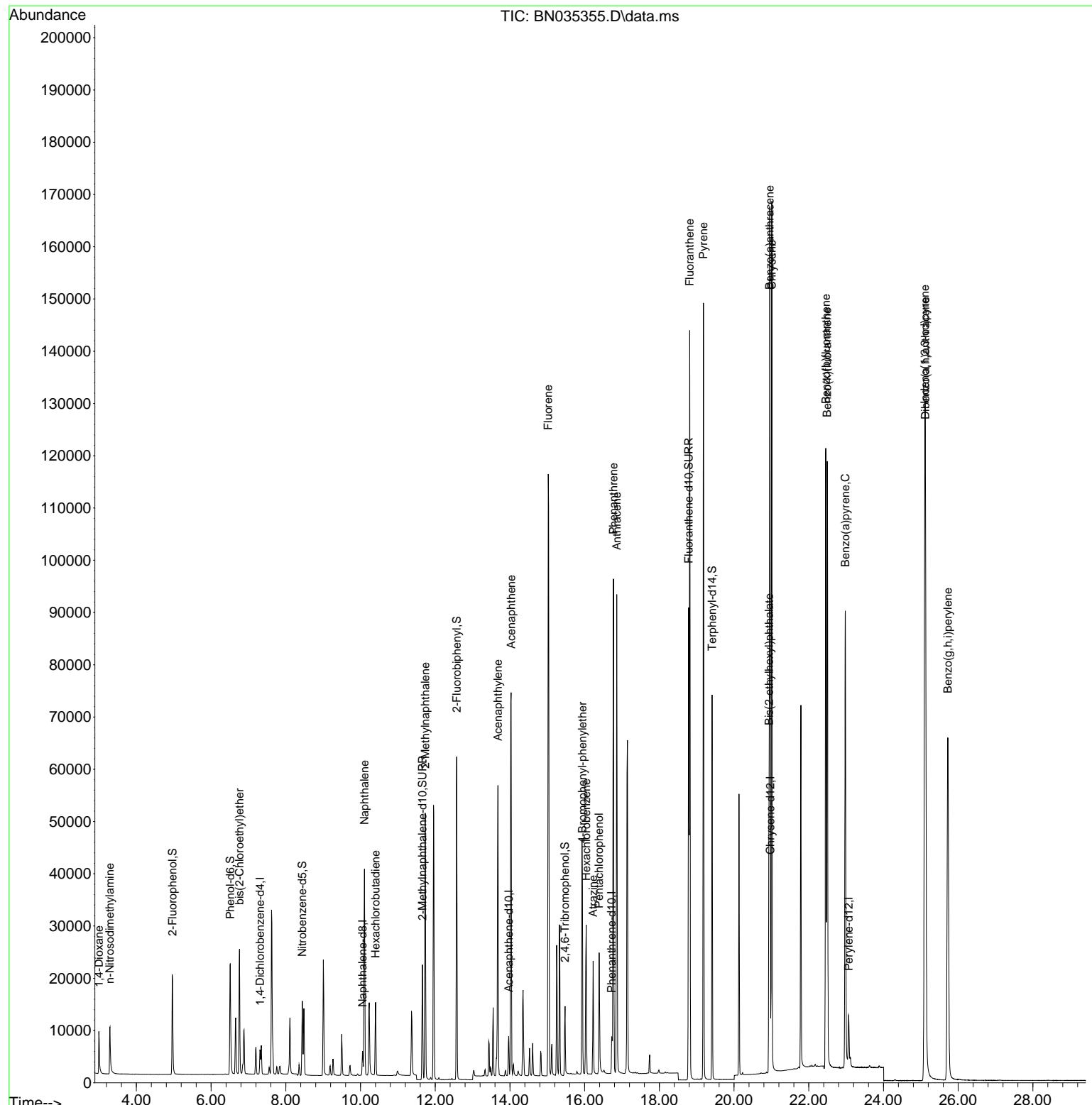
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2226	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5857	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4307	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10513	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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

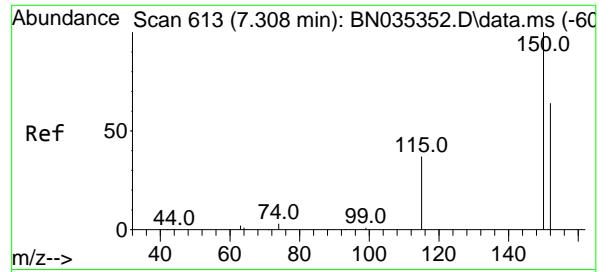
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

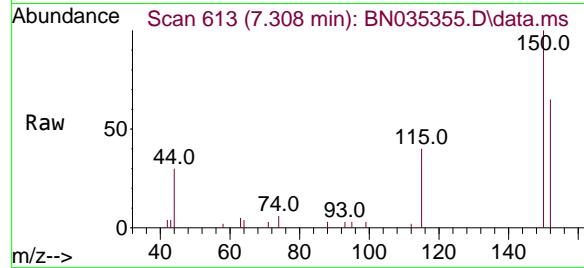
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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

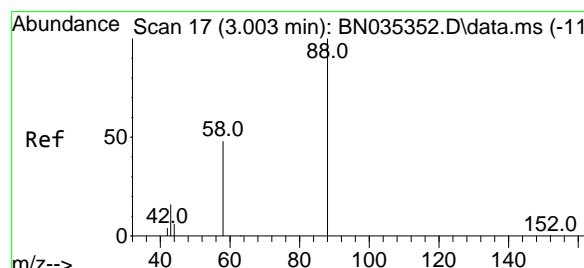
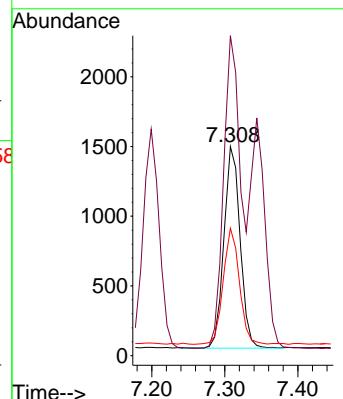
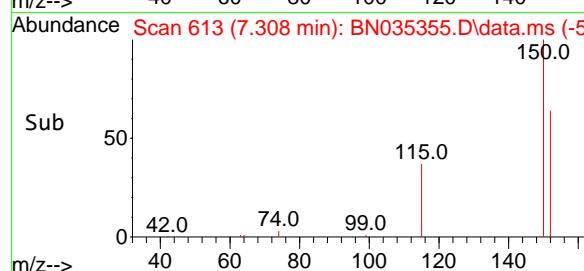




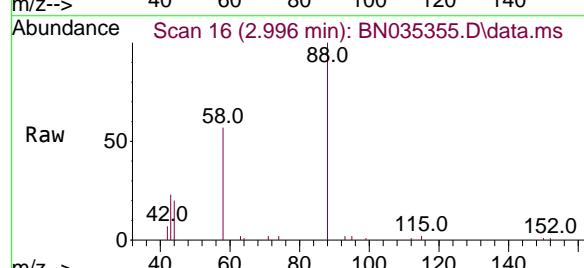
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035355.D
ClientSampleId : SSTDICC3.2
Acq: 27 Nov 2024 18:33



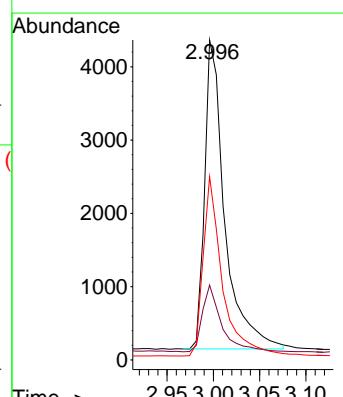
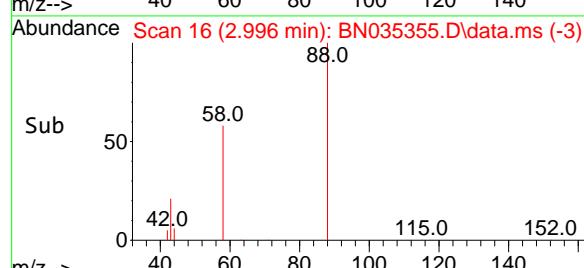
Tgt Ion:152 Resp: 2226
Ion Ratio Lower Upper
152 100
150 153.0 124.0 186.0
115 61.0 49.6 74.4

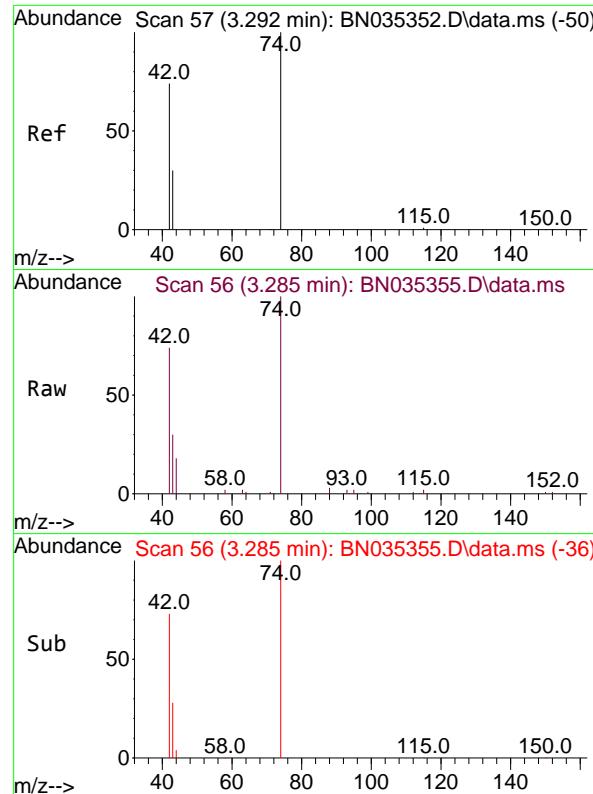


#2
1,4-Dioxane
Concen: 3.146 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33



Tgt Ion: 88 Resp: 6360
Ion Ratio Lower Upper
88 100
43 20.6 17.2 25.8
58 55.4 44.5 66.7

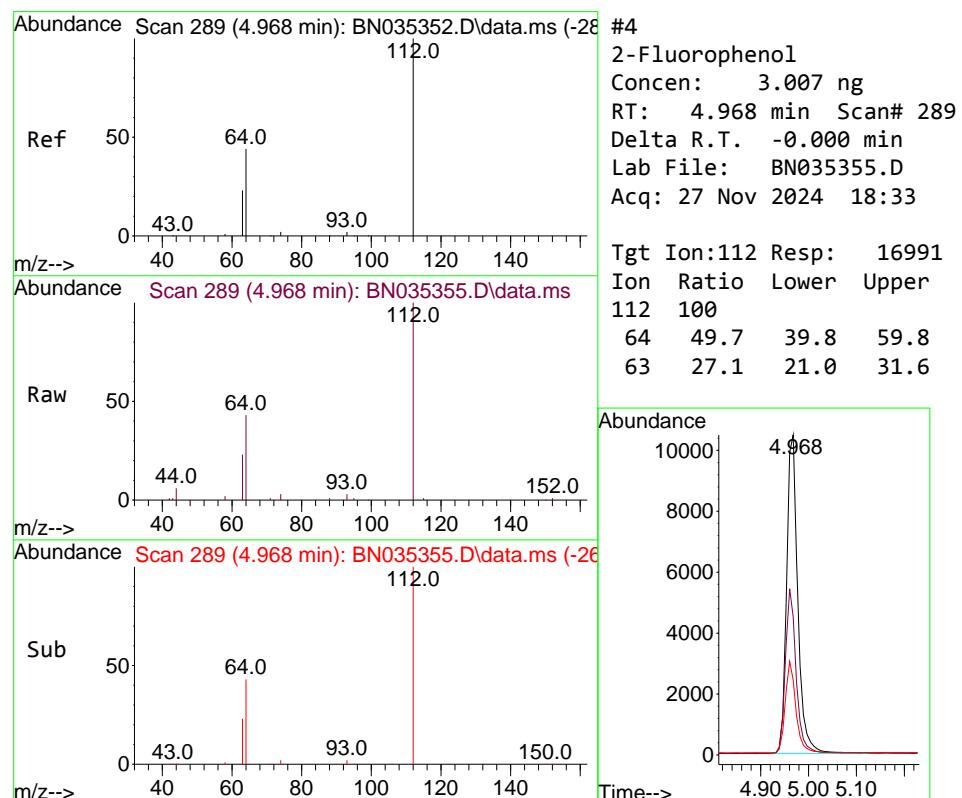
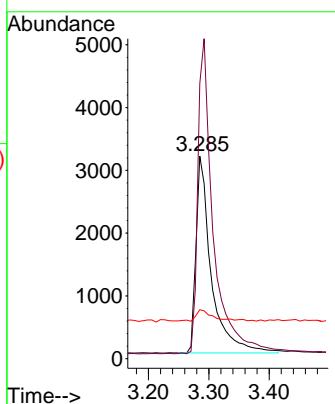




#3
n-Nitrosodimethylamine
Concen: 2.932 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

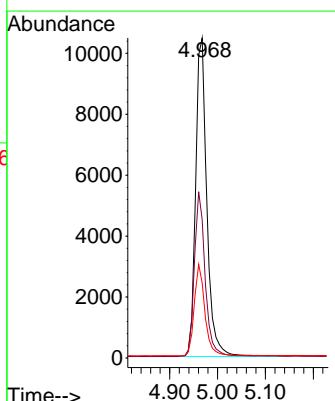
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

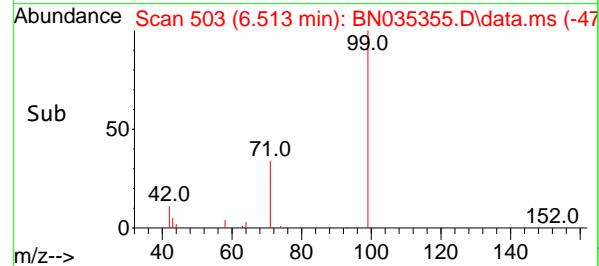
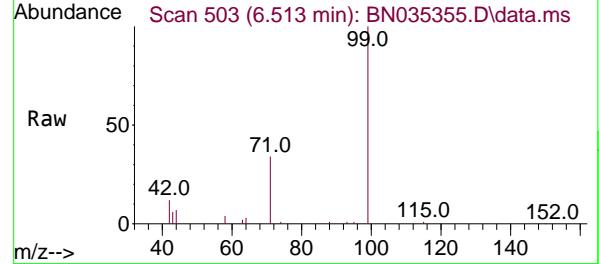
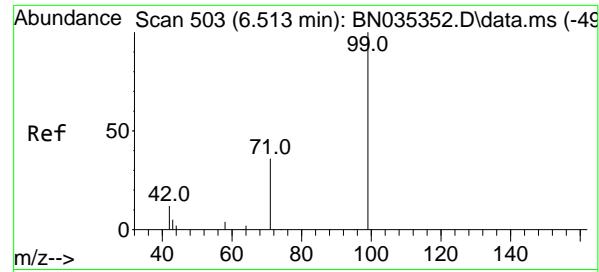
Tgt Ion: 42 Resp: 5524
Ion Ratio Lower Upper
42 100
74 162.0 124.9 187.3
44 6.4 2.2 3.4#



#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

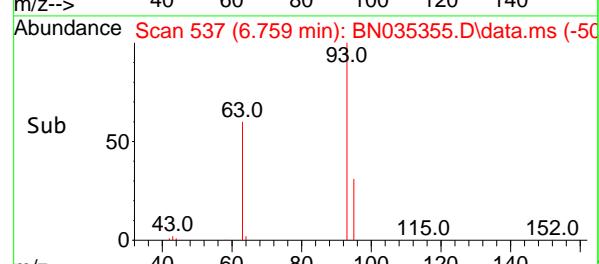
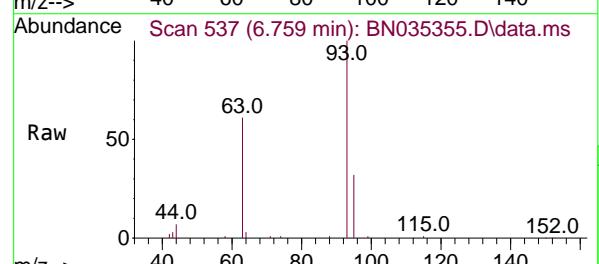
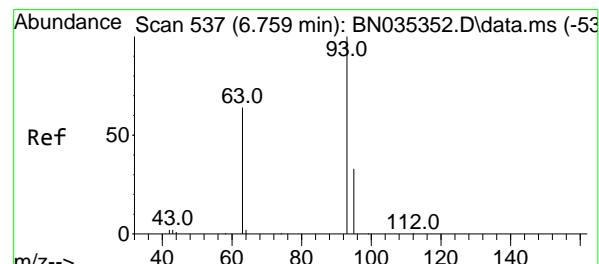
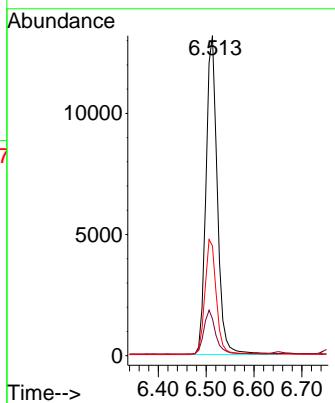




#5
 Phenol-d6
 Concen: 3.053 ng
 RT: 6.513 min Scan# 5
 Delta R.T. -0.000 min
 Lab File: BN035355.D
 Acq: 27 Nov 2024 18:33

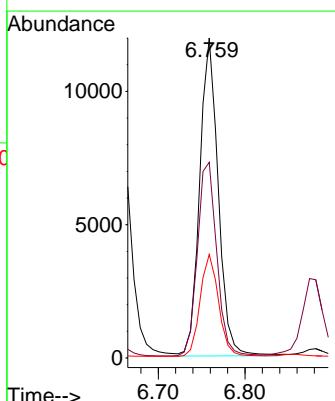
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

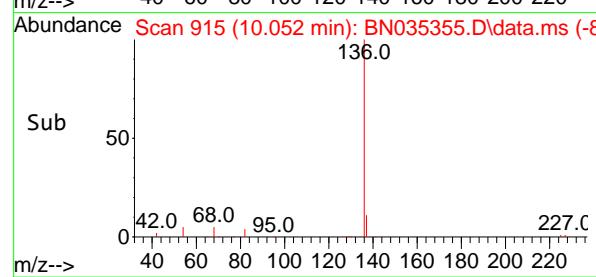
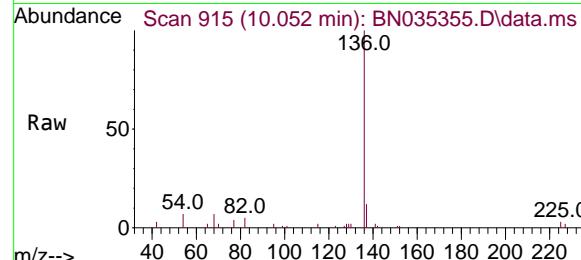
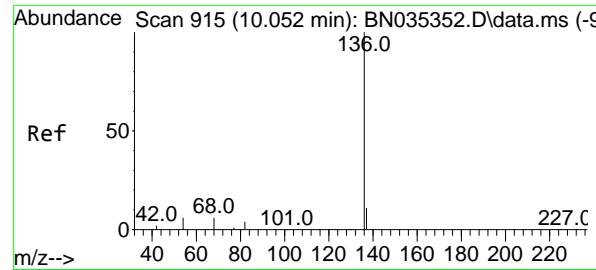
Tgt Ion: 99 Resp: 21633
 Ion Ratio Lower Upper
 99 100
 42 14.1 11.4 17.2
 71 36.5 29.3 43.9



#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

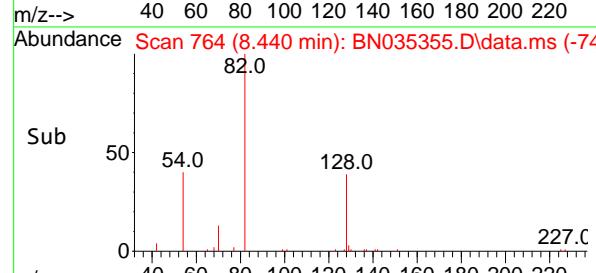
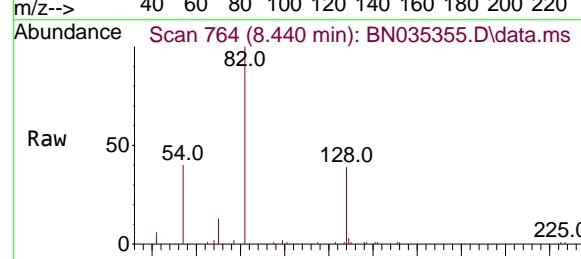
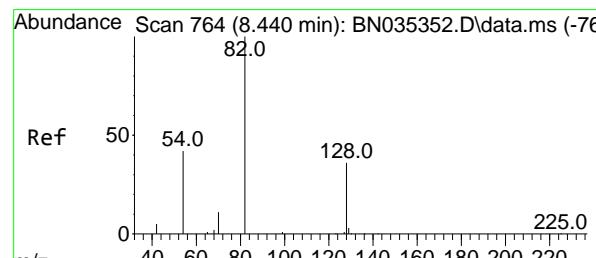
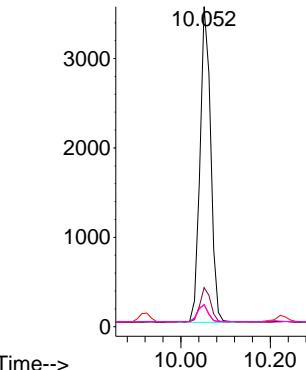
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

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

Abundance

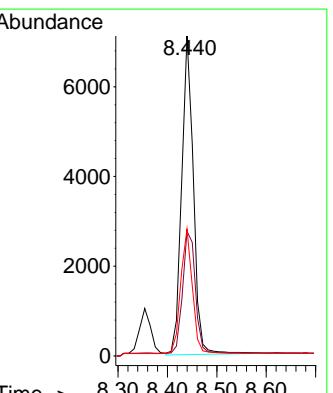


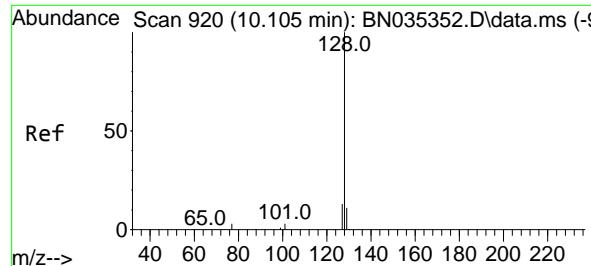
#8
 Nitrobenzene-d5
 Concen: 2.307 ng
 RT: 8.440 min Scan# 764
 Delta R.T. -0.000 min
 Lab File: BN035355.D
 Acq: 27 Nov 2024 18:33

Tgt Ion: 82 Resp: 11759

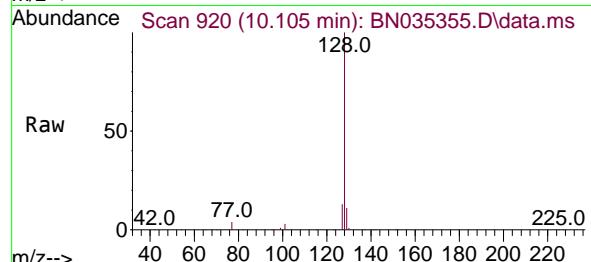
Ion Ratio Lower Upper

82	100		
128	39.0	33.4	50.0
54	39.7	36.7	55.1

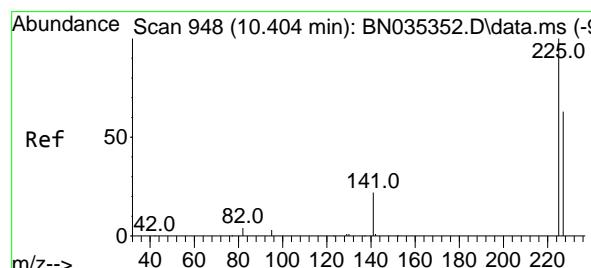
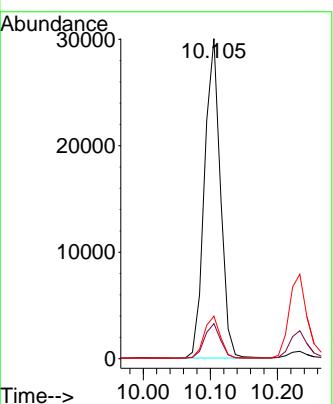
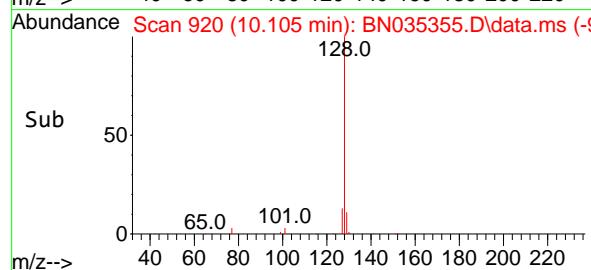




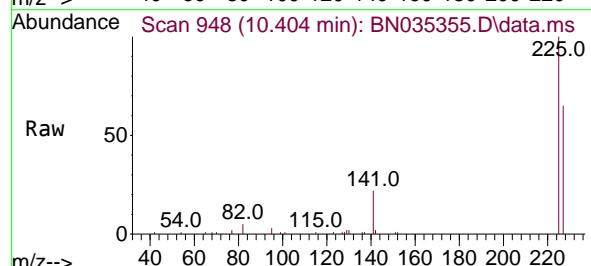
#9
Naphthalene
Concen: 3.214 ng
RT: 10.105 min Scan# 9
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33
ClientSampleId : SSTDICC3.2



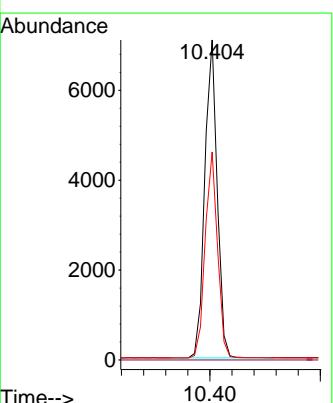
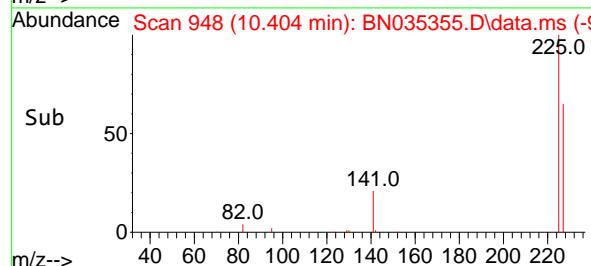
Tgt Ion:128 Resp: 49151
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.6
127 13.3 11.4 17.2

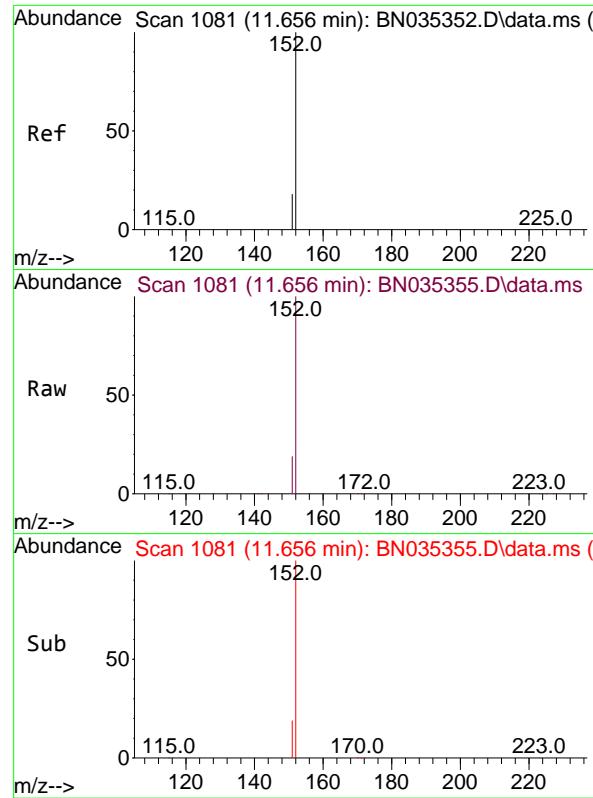


#10
Hexachlorobutadiene
Concen: 2.463 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33



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

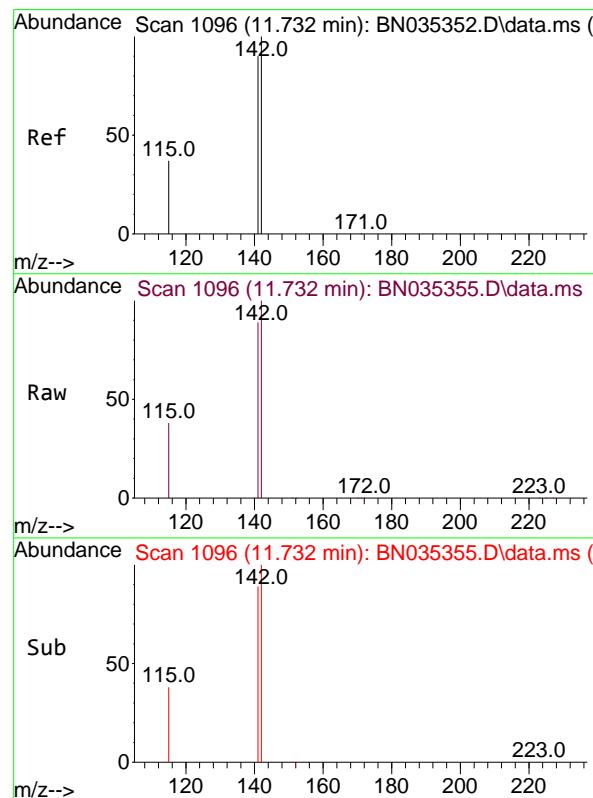
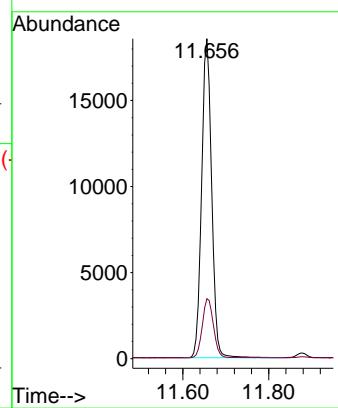




#11
2-Methylnaphthalene-d10
Concen: 2.870 ng
RT: 11.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

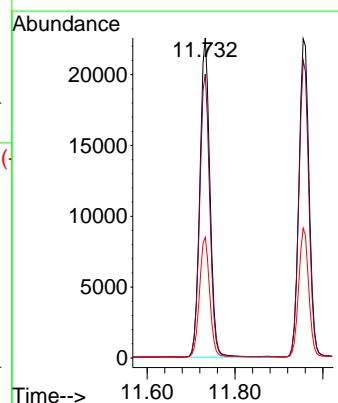
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

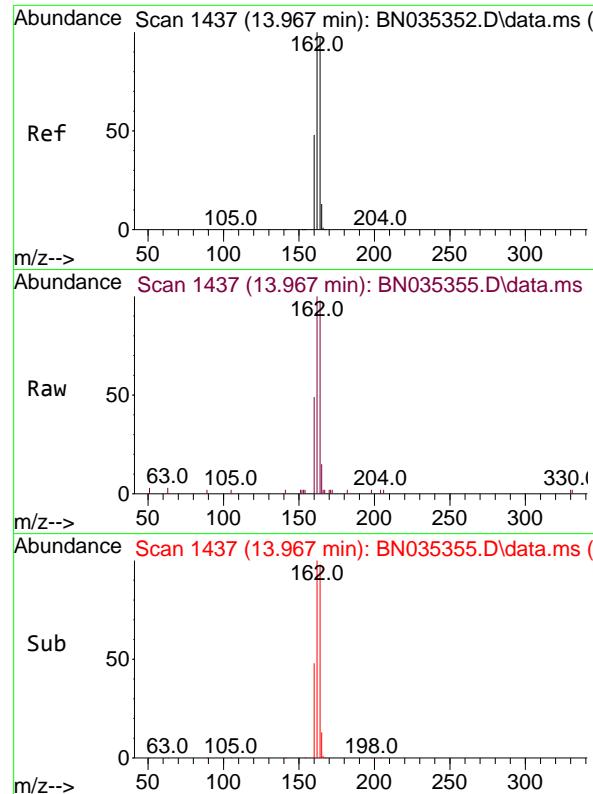
Tgt Ion:152 Resp: 29957
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#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# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

Instrument :

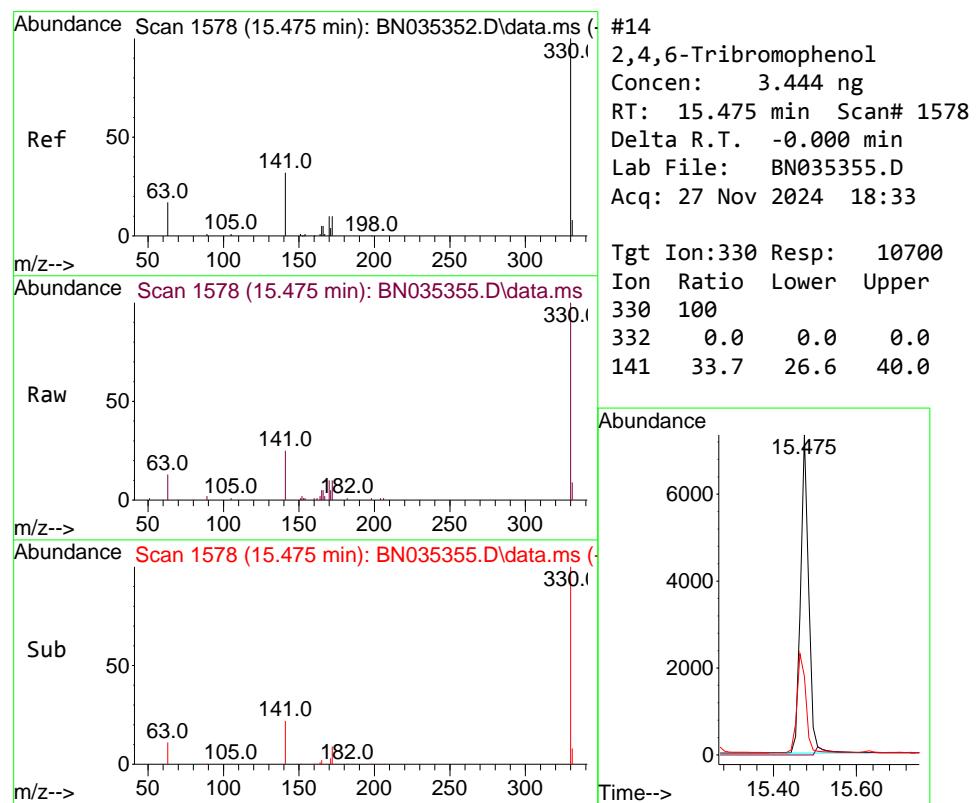
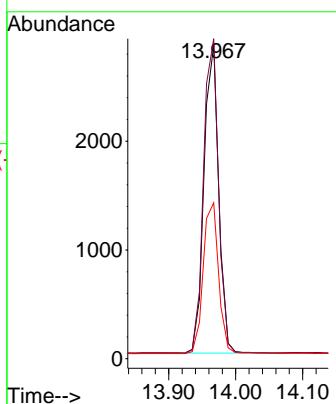
BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:164 Resp: 4307

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

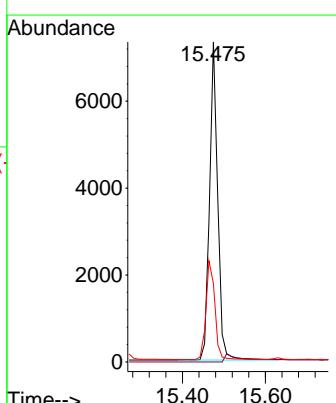


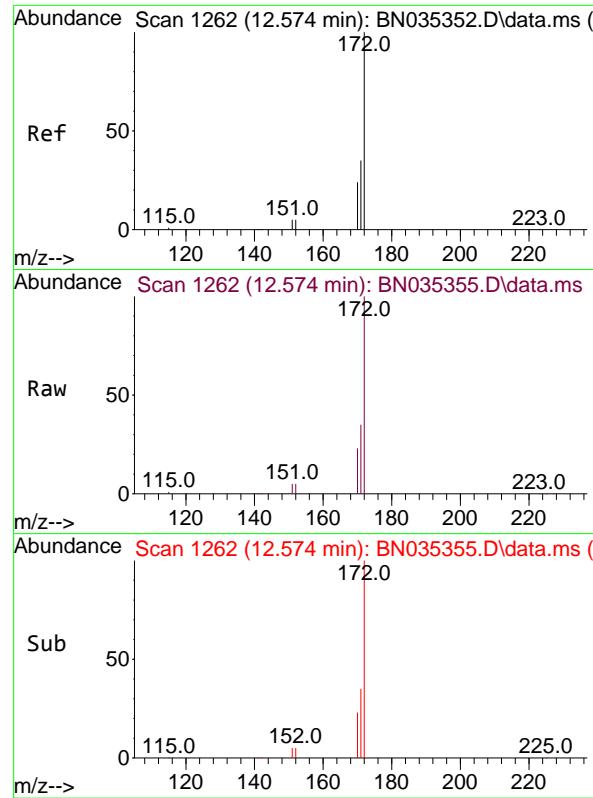
#14

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

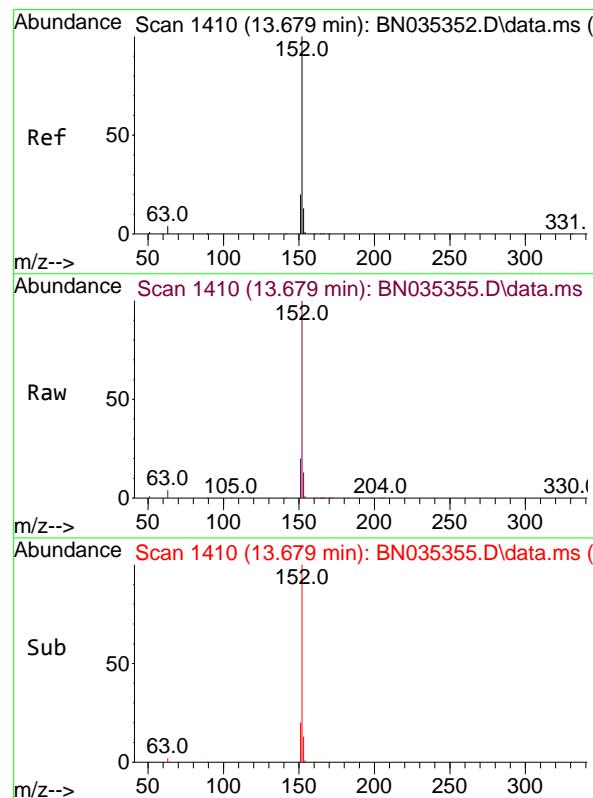
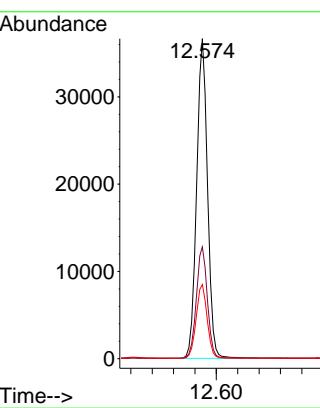
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.7	26.6	40.0





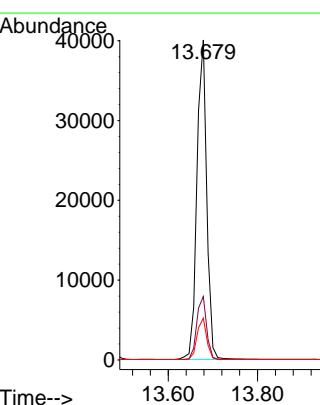
#15
2-Fluorobiphenyl
Concen: 2.976 ng
RT: 12.574 min Scan# 1
Instrument: BNA_N
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33
ClientSampleId : SSTDICC3.2

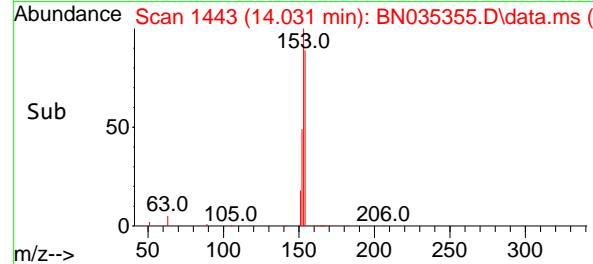
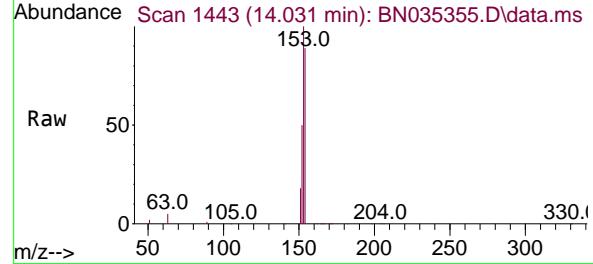
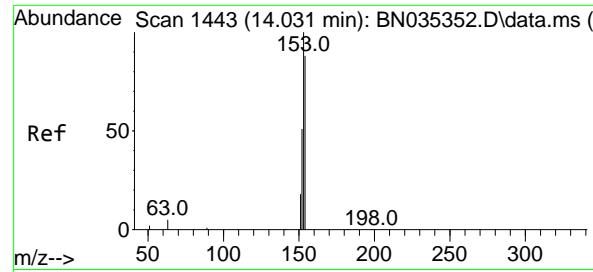
Tgt Ion:172 Resp: 52048
Ion Ratio Lower Upper
172 100
171 35.0 29.0 43.4
170 23.1 19.8 29.8



#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# 1

Delta R.T. -0.000 min

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

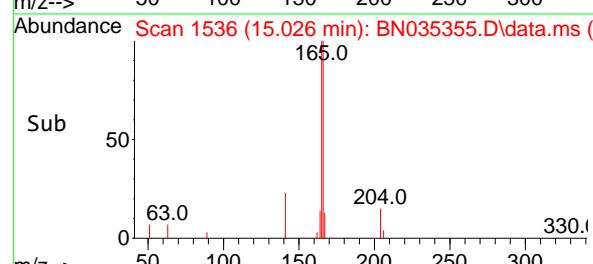
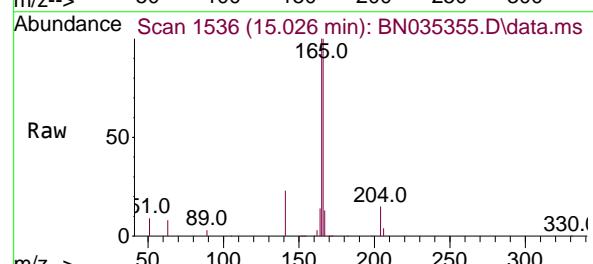
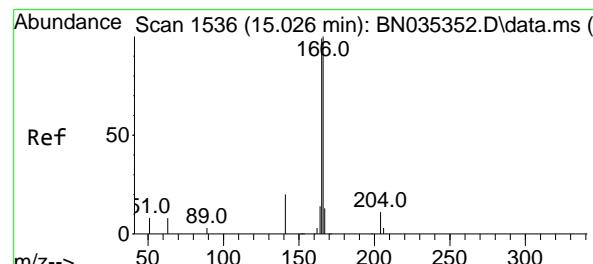
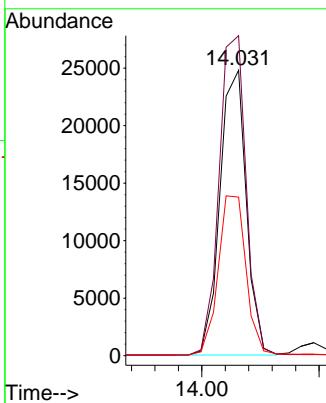
Tgt Ion:154 Resp: 38676

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

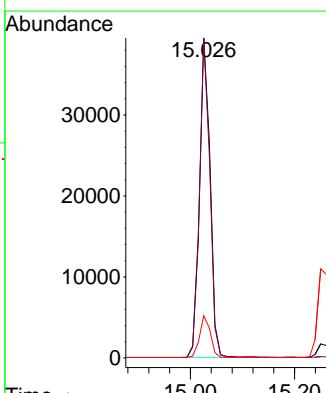
Tgt Ion:166 Resp: 55613

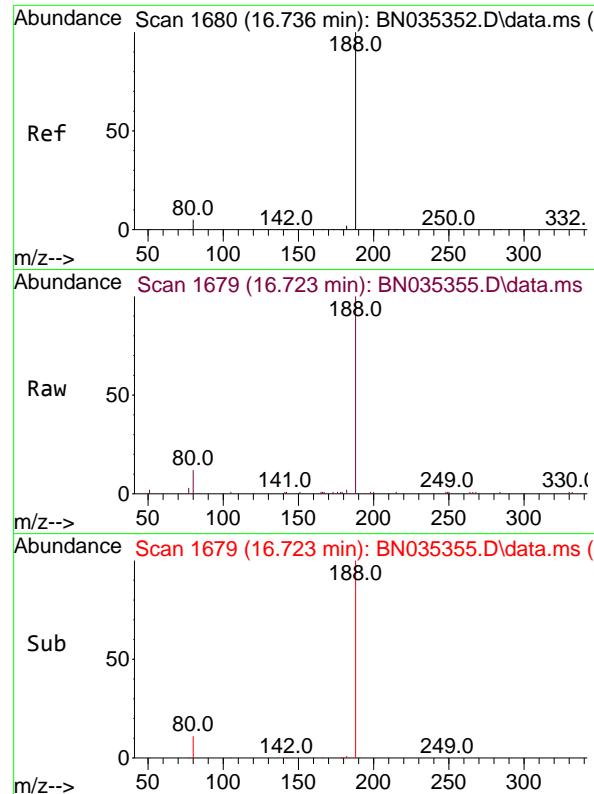
Ion Ratio Lower Upper

166 100

165 98.5 79.7 119.5

167 13.3 10.8 16.2

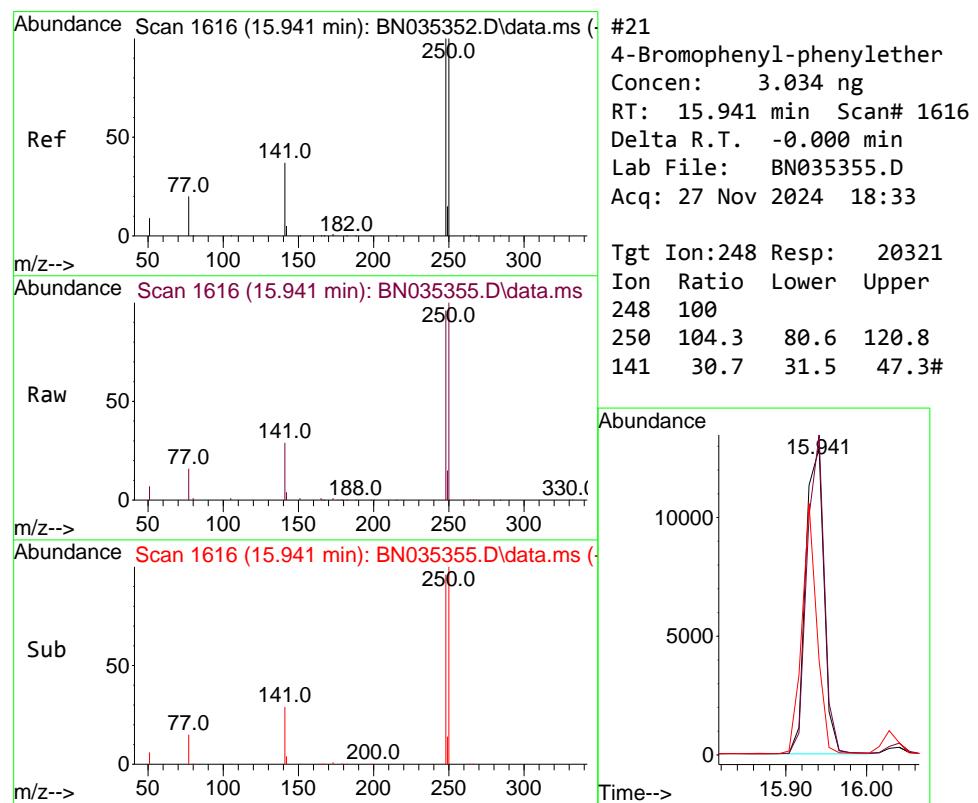
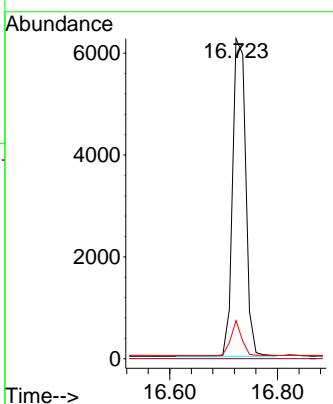




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN035355.D
 Acq: 27 Nov 2024 18:33

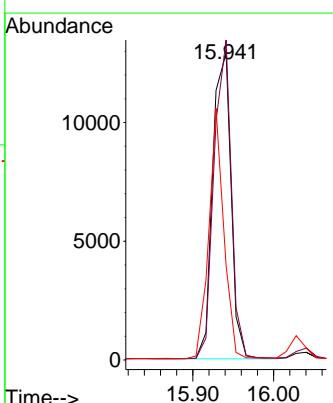
Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

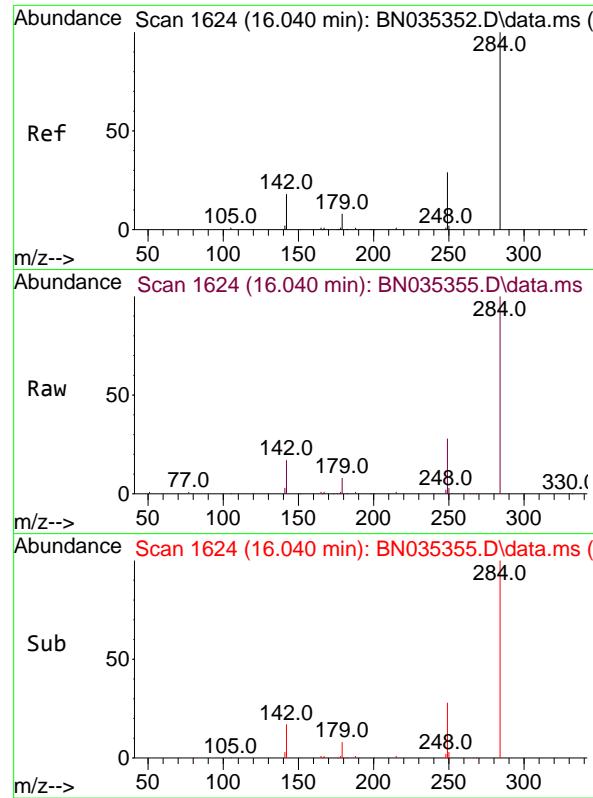
Tgt Ion:188 Resp: 10513
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 11.9 4.6 6.8#



#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#

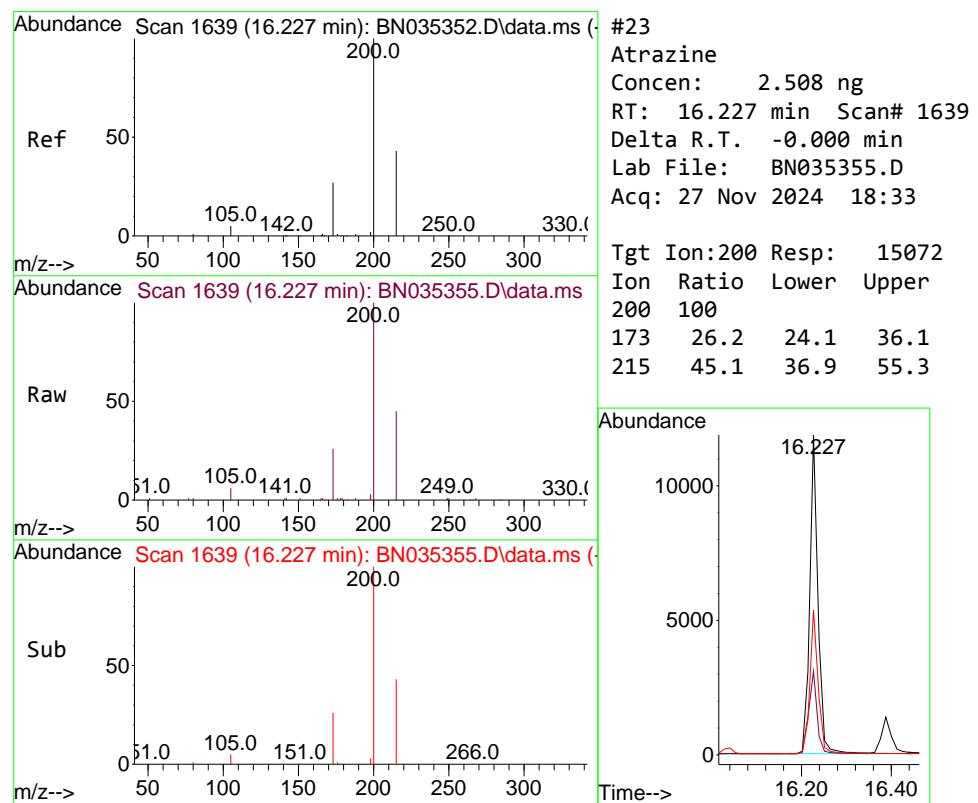
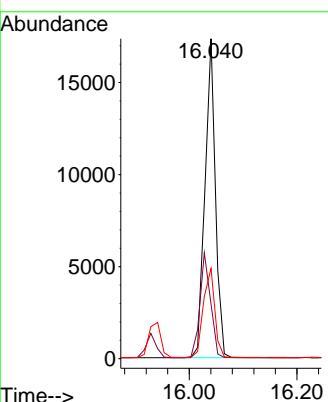




#22
Hexachlorobenzene
Concen: 3.359 ng
RT: 16.040 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

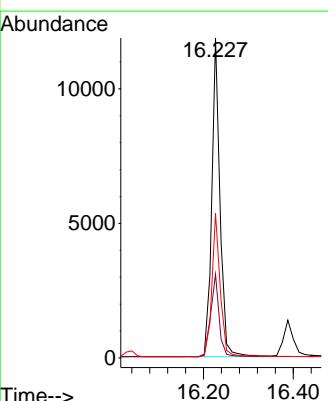
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

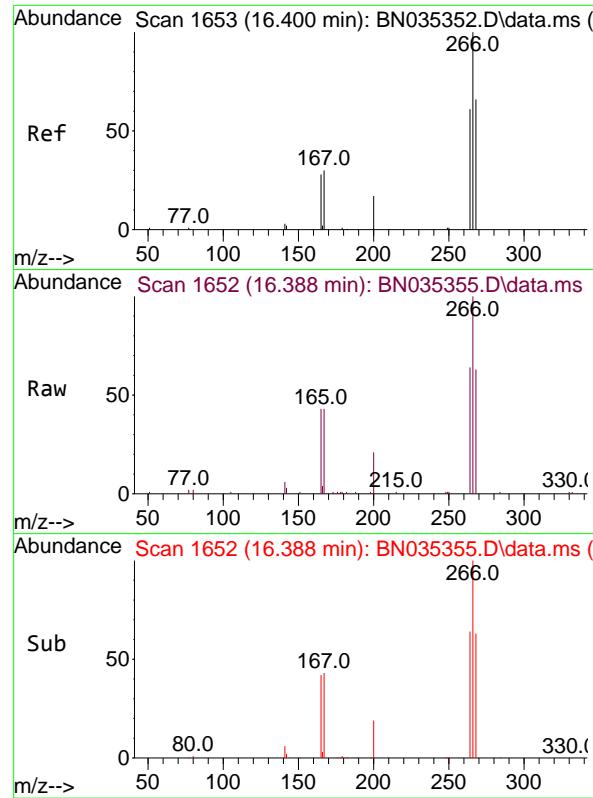
Tgt Ion:284 Resp: 23349
Ion Ratio Lower Upper
284 100
142 33.3 26.7 40.1
249 30.2 24.6 36.8



#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

Abundance

6000

4000

2000

0

16.388

Time-->

#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

Abundance

60000

40000

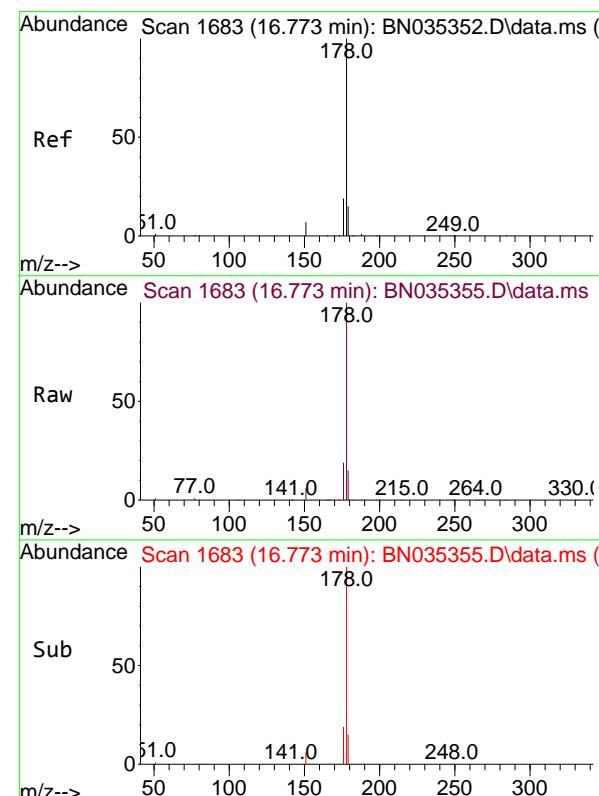
20000

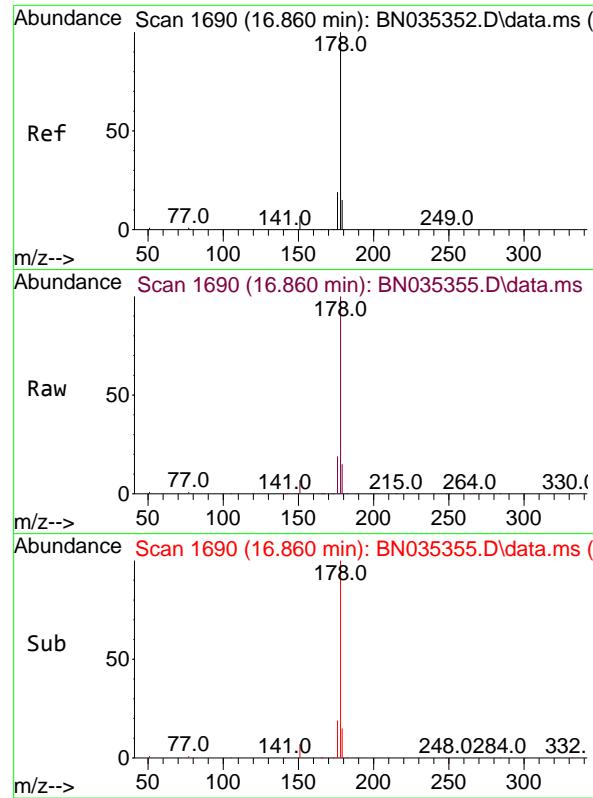
0

16.773

Time-->

16.70 16.75 16.80

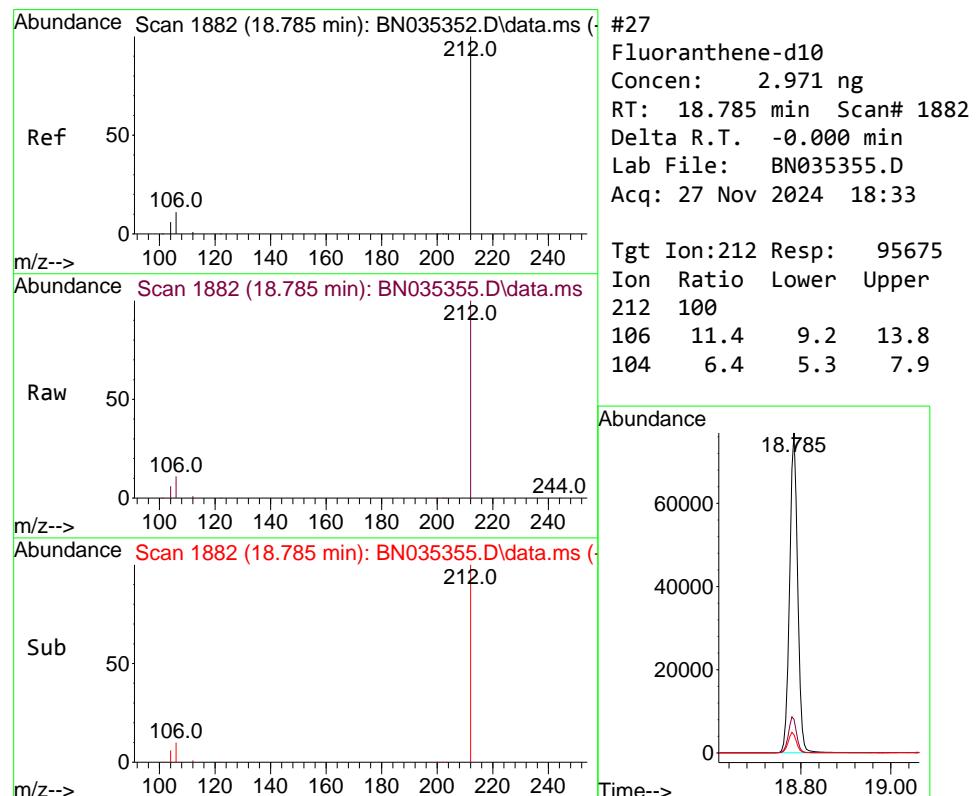
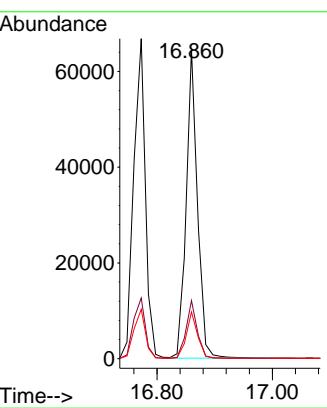




#26
Anthracene
Concen: 3.449 ng
RT: 16.860 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

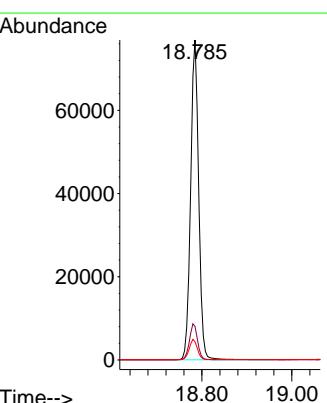
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

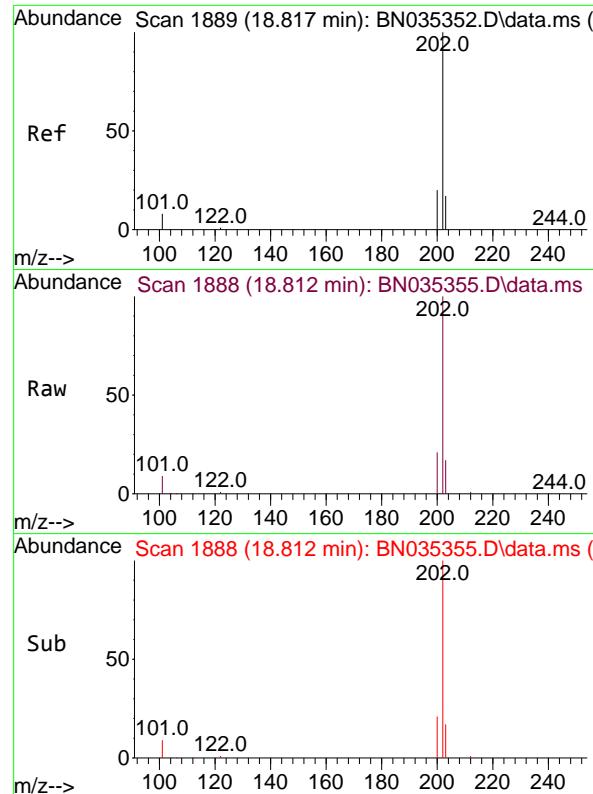
Tgt Ion:178 Resp: 87657
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.6 18.8



#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

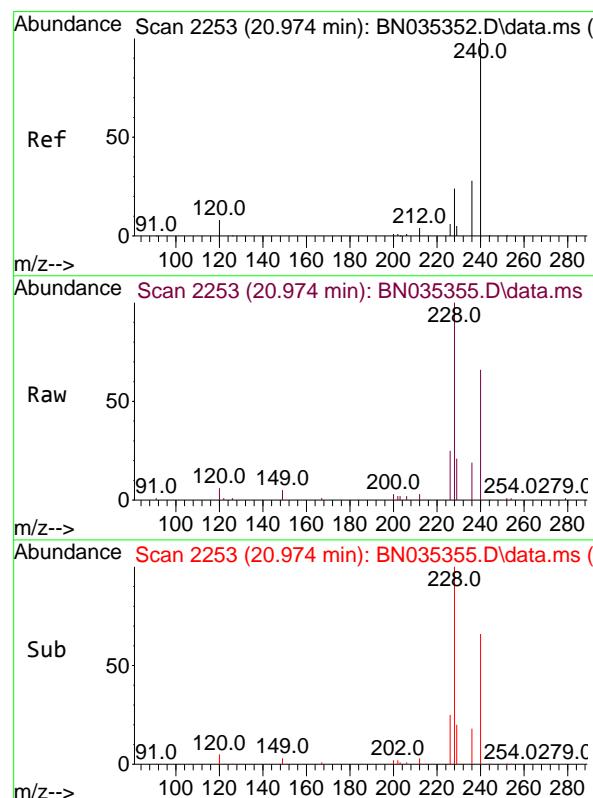
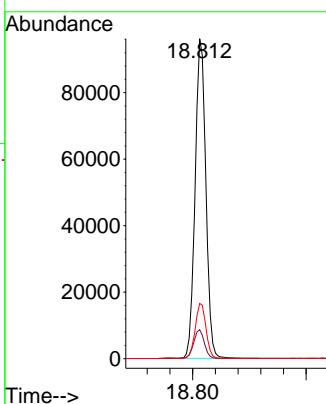




#28
Fluoranthene
Concen: 3.309 ng
RT: 18.812 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

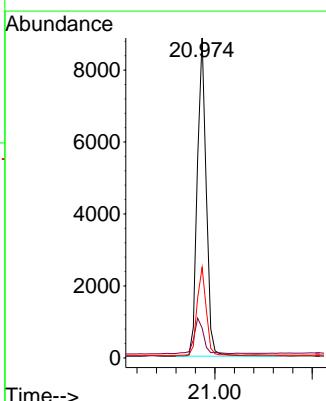
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

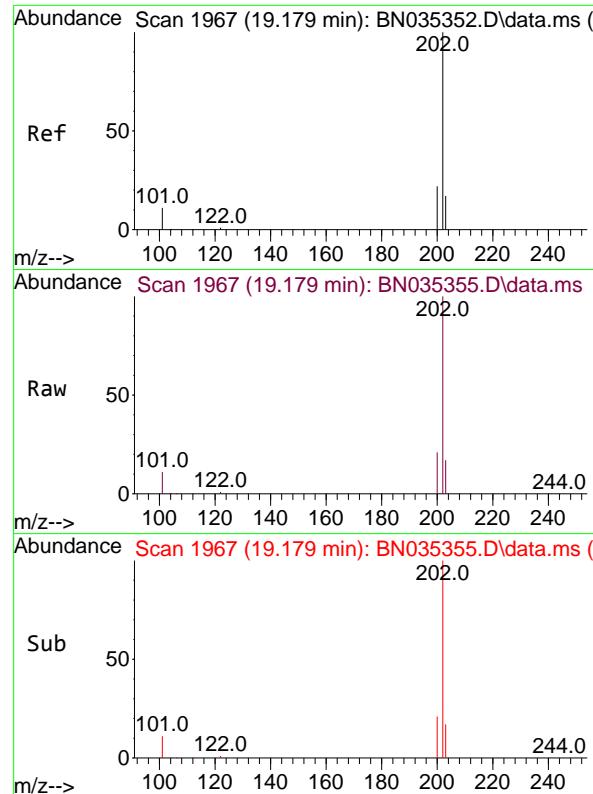
Tgt Ion:202 Resp: 125901
Ion Ratio Lower Upper
202 100
101 9.1 7.4 11.0
203 17.3 13.7 20.5



#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

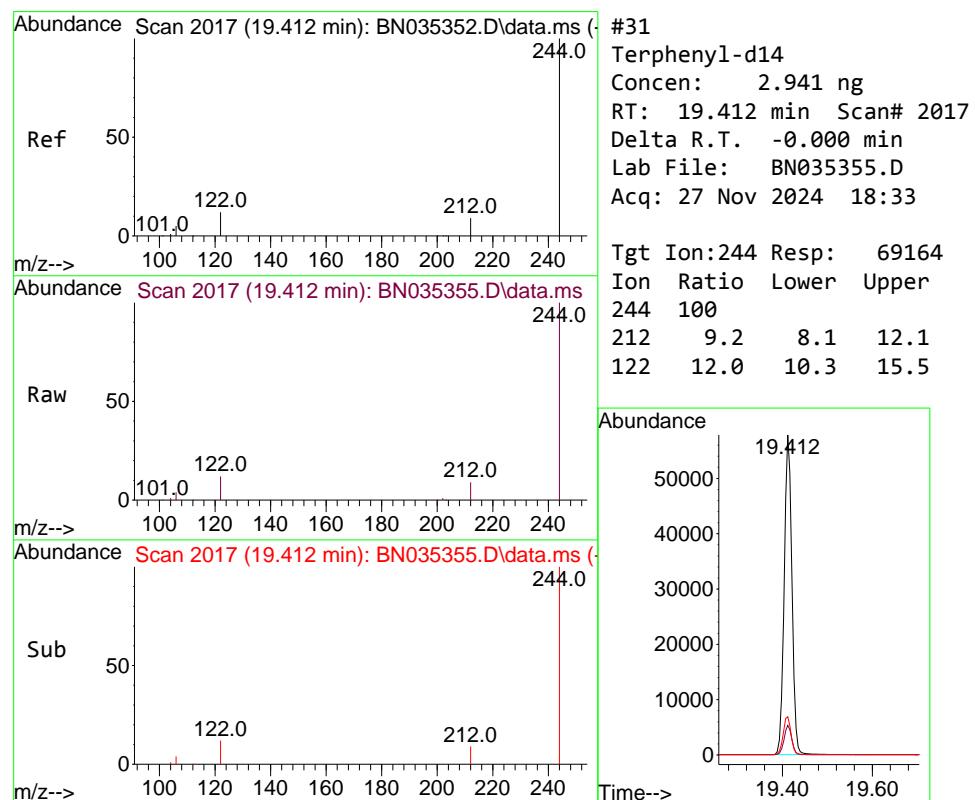
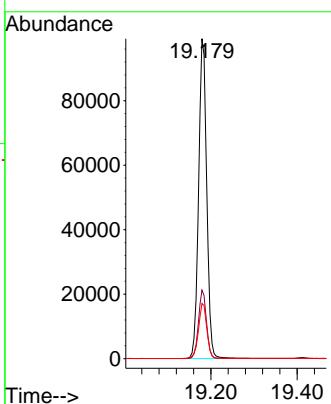




#30
Pyrene
Concen: 3.460 ng
RT: 19.179 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

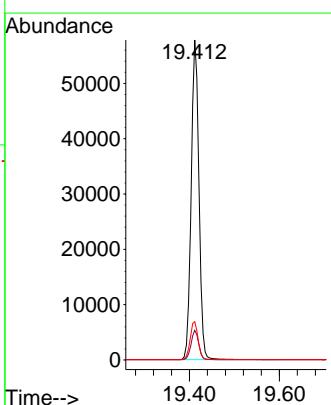
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

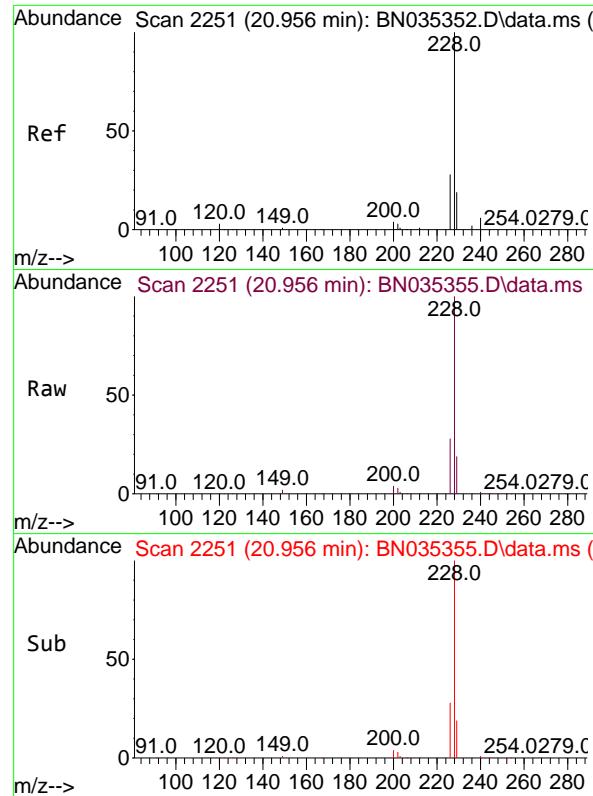
Tgt Ion:202 Resp: 129105
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#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

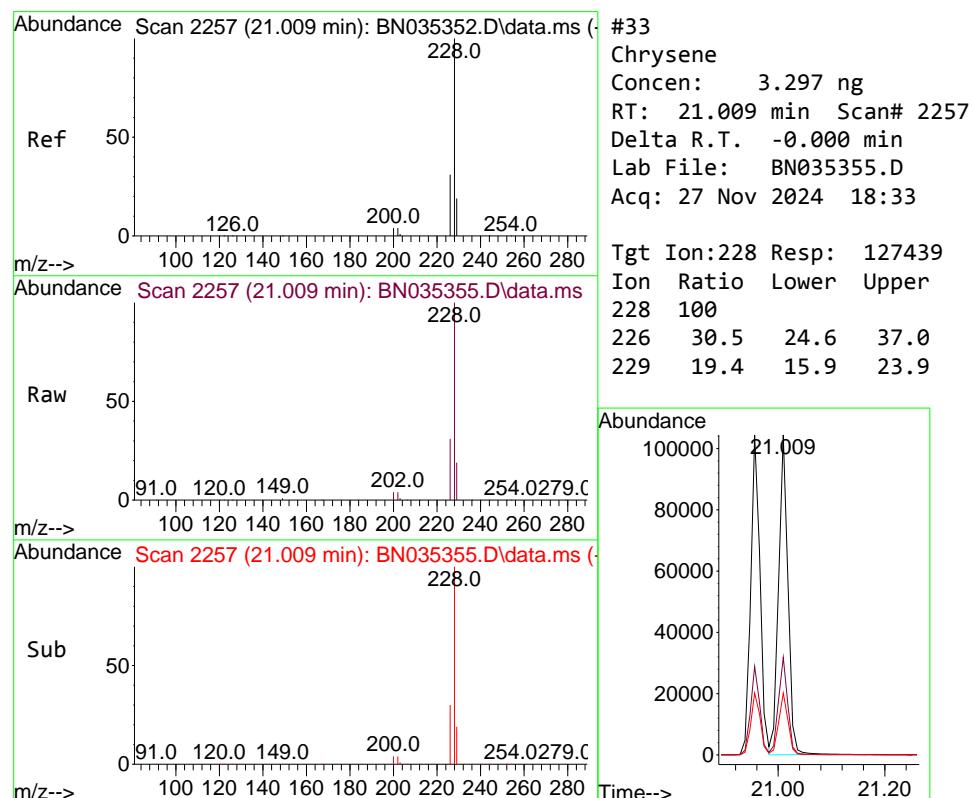
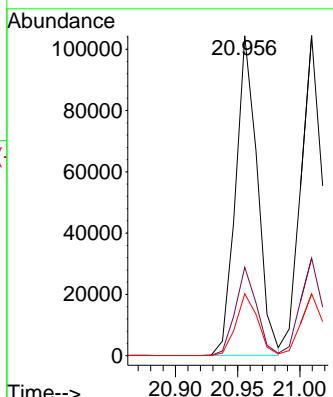




#32
 Benzo(a)anthracene
 Concen: 3.242 ng
 RT: 20.956 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035355.D
 Acq: 27 Nov 2024 18:33

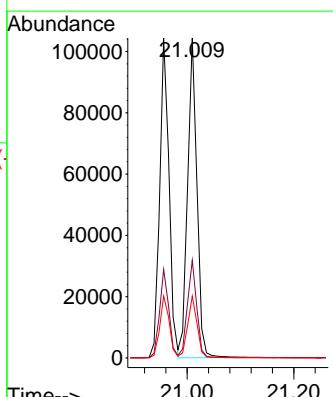
Instrument : BNA_N
 ClientSampleId : SSTDICC3.2

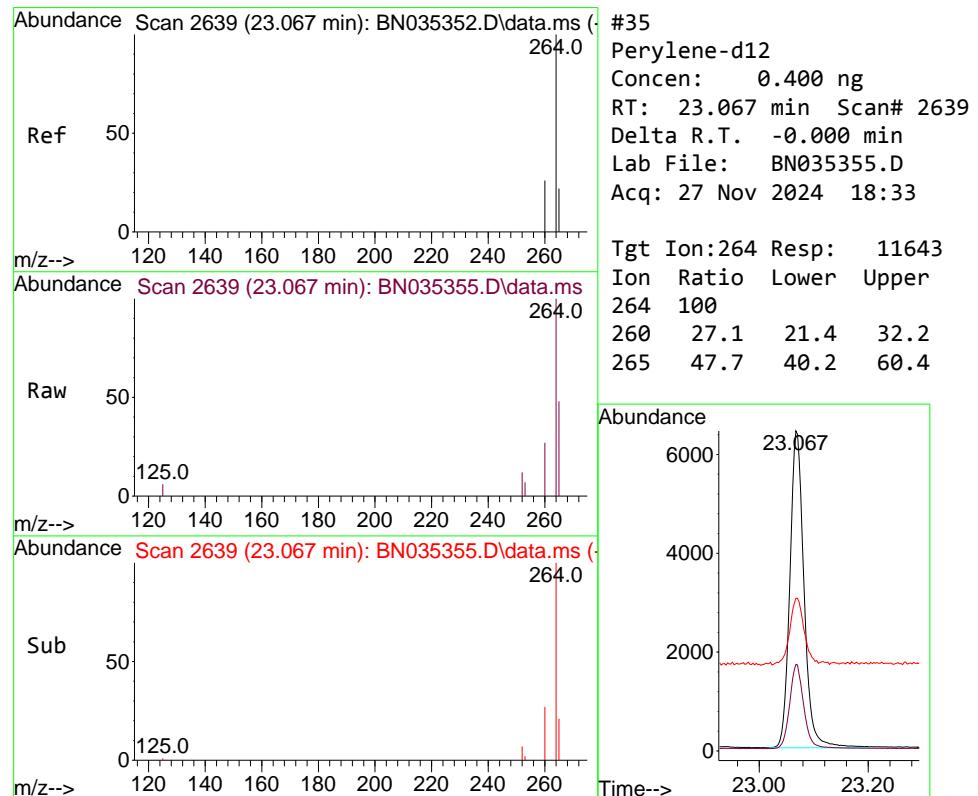
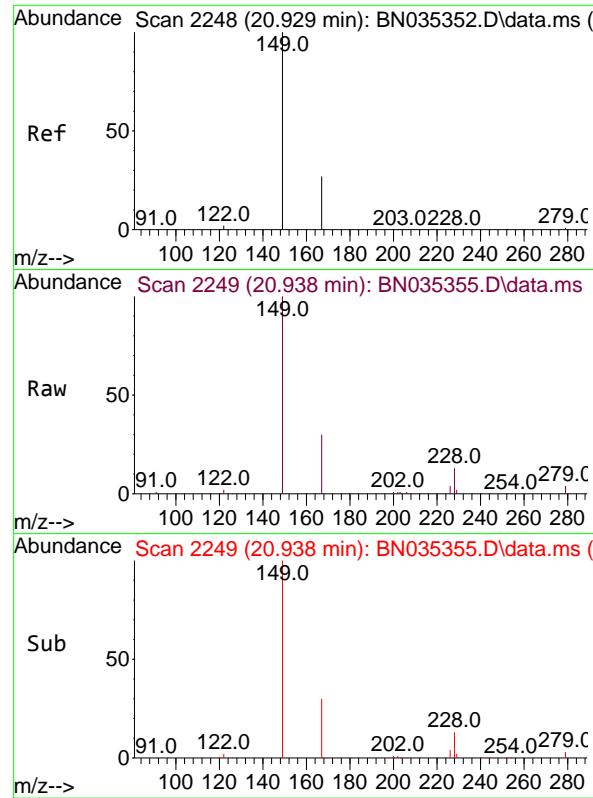
Tgt Ion:228 Resp: 126517
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.5 33.7
 229 19.4 15.8 23.8

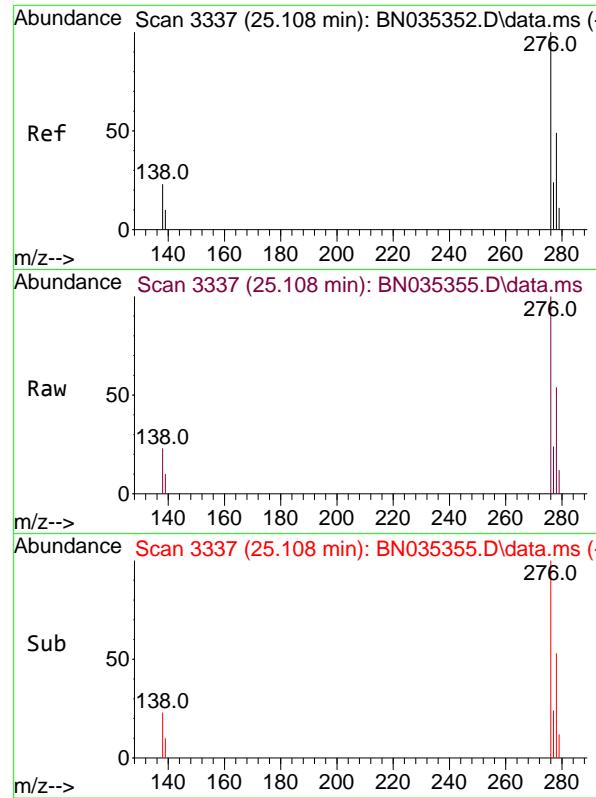


#33
 Chrysene
 Concen: 3.297 ng
 RT: 21.009 min Scan# 2257
 Delta R.T. -0.000 min
 Lab File: BN035355.D
 Acq: 27 Nov 2024 18:33

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



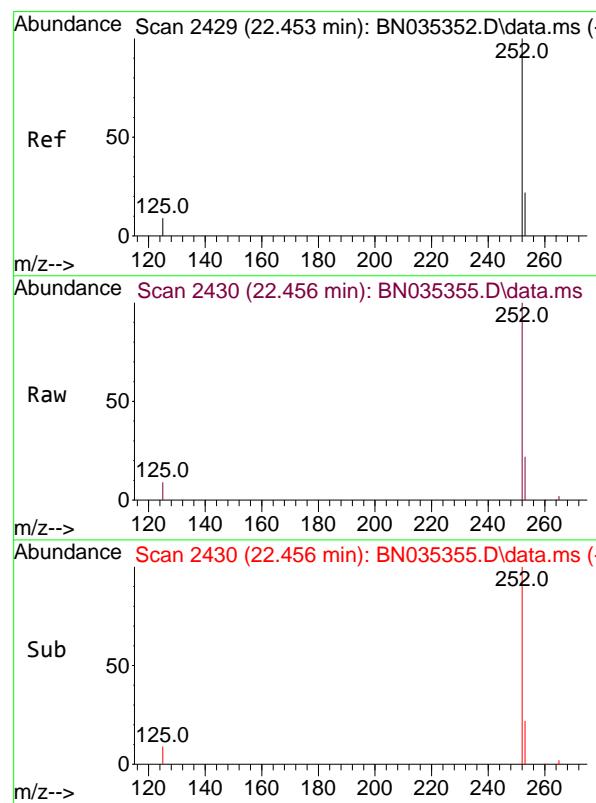
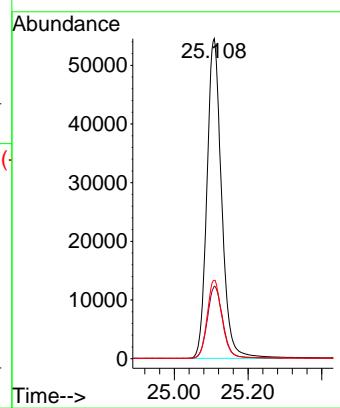




#36
Indeno(1,2,3-cd)pyrene
Concen: 3.239 ng
RT: 25.108 min Scan# 3
Delta R.T. -0.000 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

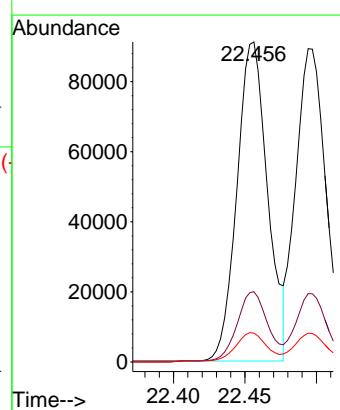
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

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# 2

Instrument :

BNA_N

Delta R.T. -0.000 min

ClientSampleId :

Lab File: BN035355.D

Acq: 27 Nov 2024 18:33

SSTDICC3.2

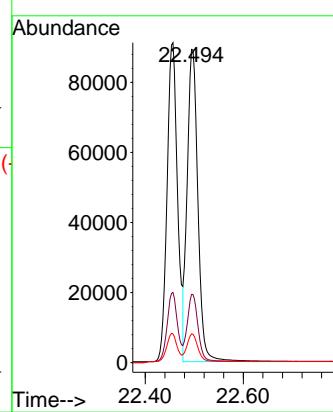
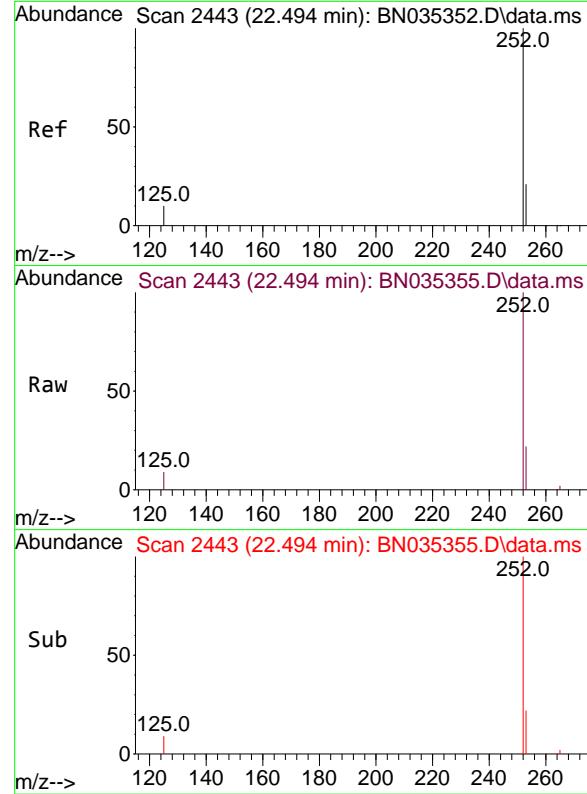
Tgt Ion:252 Resp: 134789

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

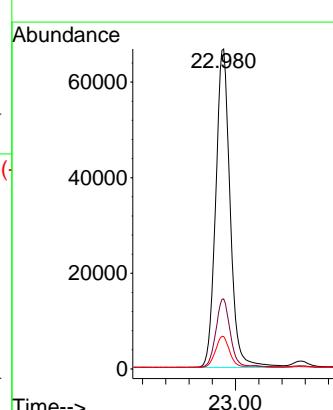
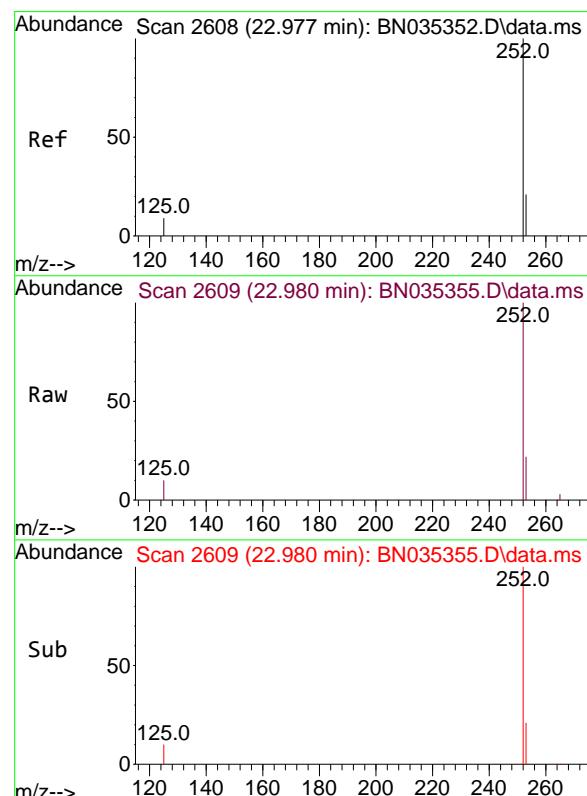
Tgt Ion:252 Resp: 114719

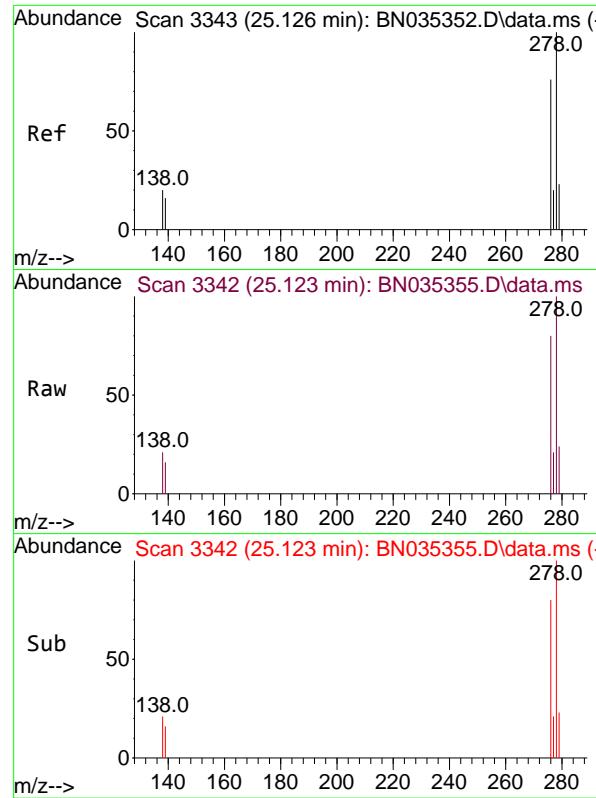
Ion Ratio Lower Upper

252 100

253 21.9 20.2 30.4

125 10.1 10.9 16.3#

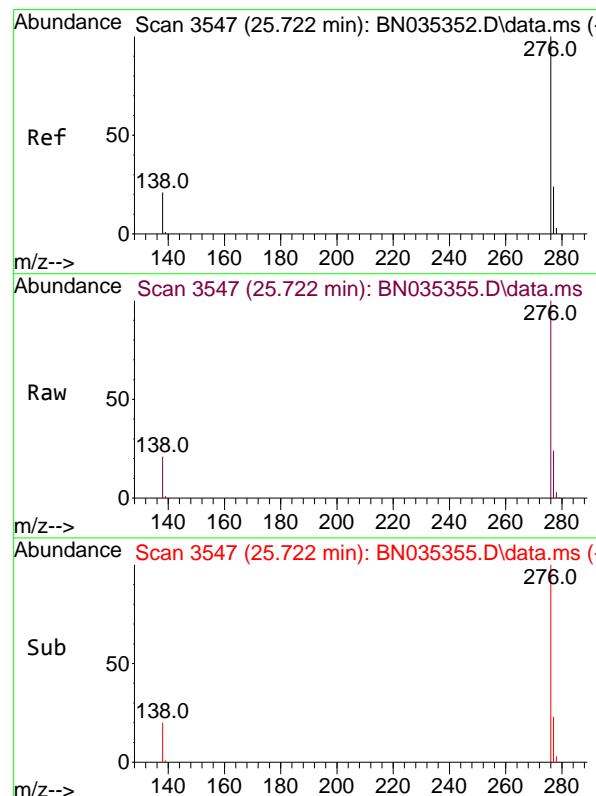
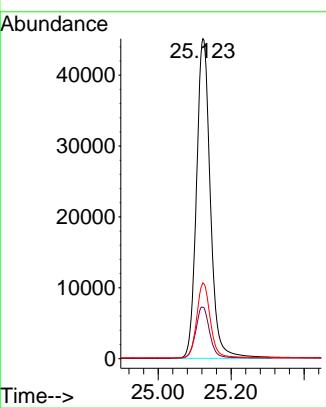




#40
Dibenzo(a,h)anthracene
Concen: 3.240 ng
RT: 25.123 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN035355.D
Acq: 27 Nov 2024 18:33

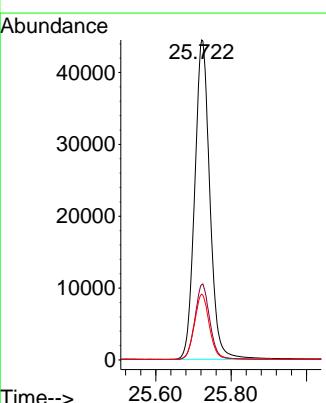
Instrument : BNA_N
ClientSampleId : SSTDICC3.2

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



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

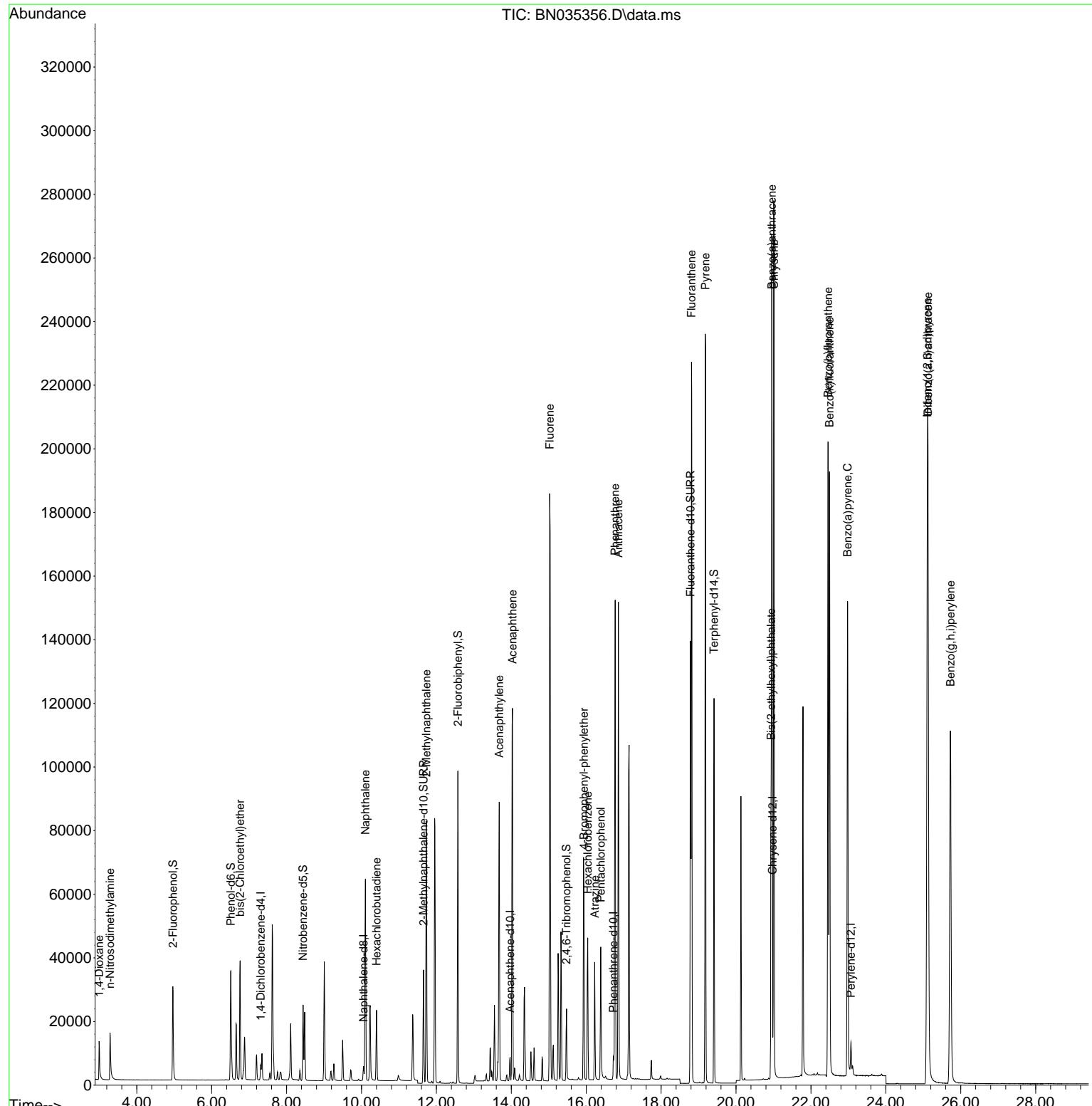
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2249	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5807	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4363	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	10479	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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

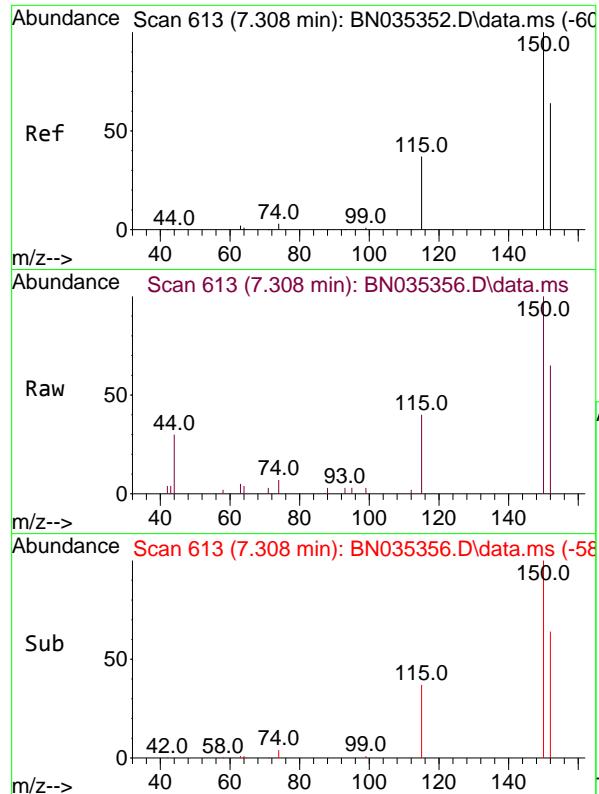
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

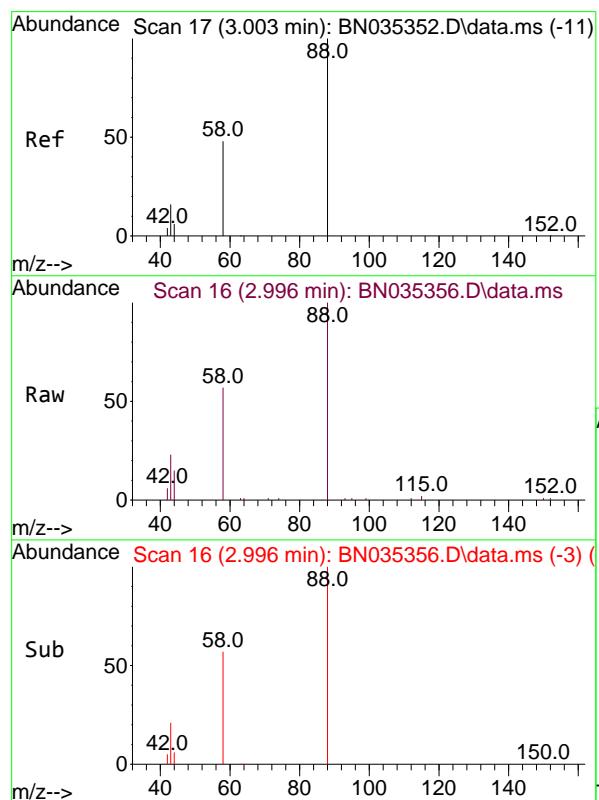
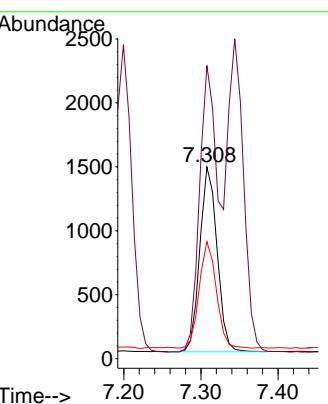




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.308 min Scan# 6
 Delta R.T. -0.000 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

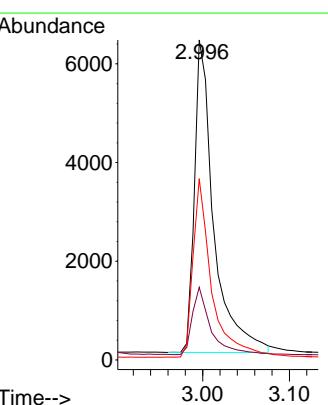
Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

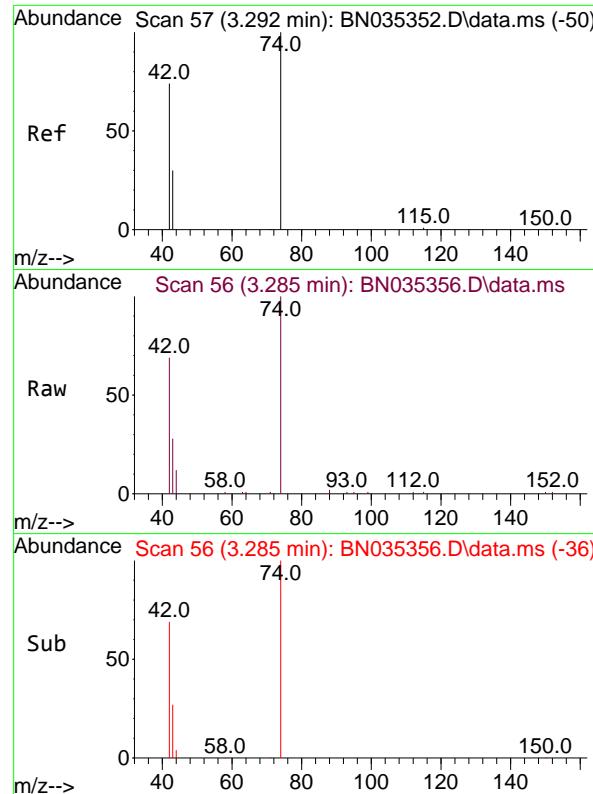
Tgt Ion:152 Resp: 2249
 Ion Ratio Lower Upper
 152 100
 150 152.9 124.0 186.0
 115 61.0 49.6 74.4



#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

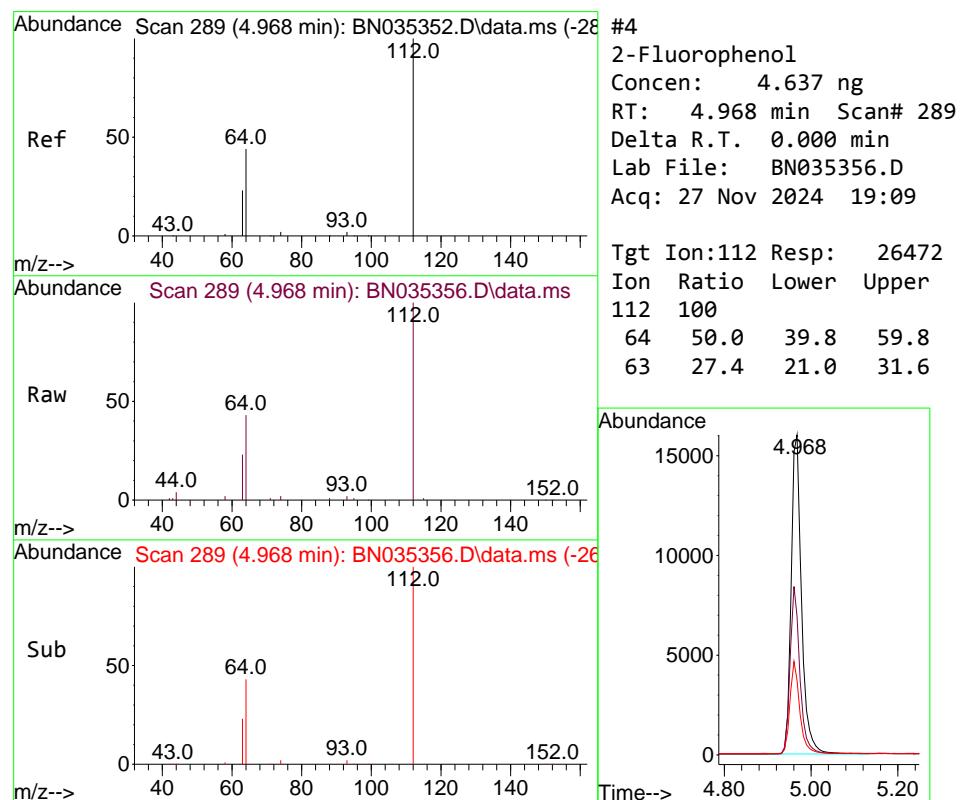
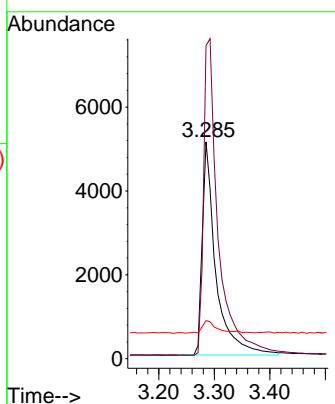




#3
n-Nitrosodimethylamine
Concen: 4.560 ng
RT: 3.285 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

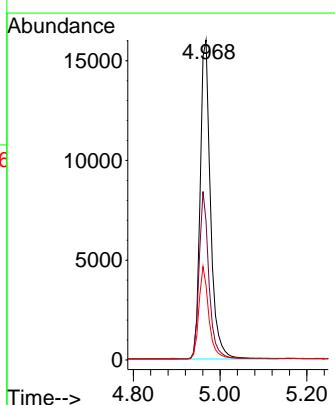
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ClientSampleId : SSTDICC5.0

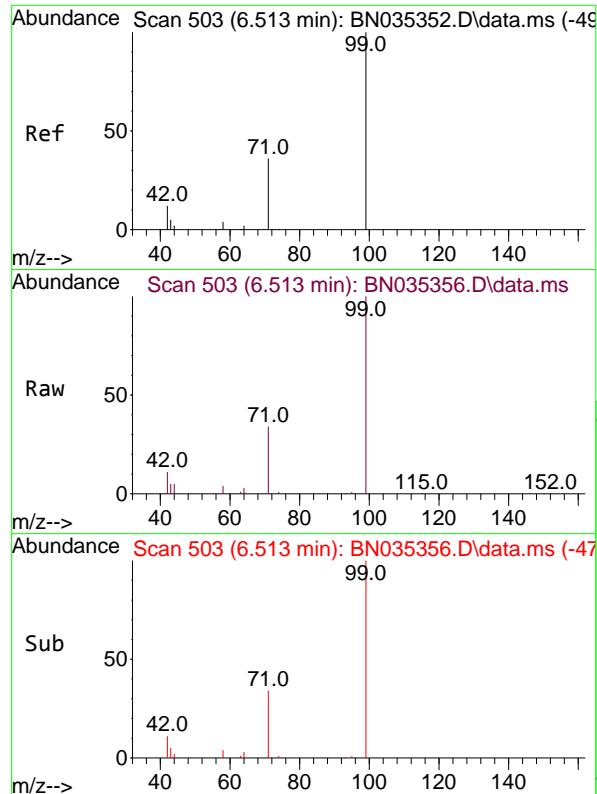
Tgt Ion: 42 Resp: 8681
Ion Ratio Lower Upper
42 100
74 161.2 124.9 187.3
44 6.7 2.2 3.4#



#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

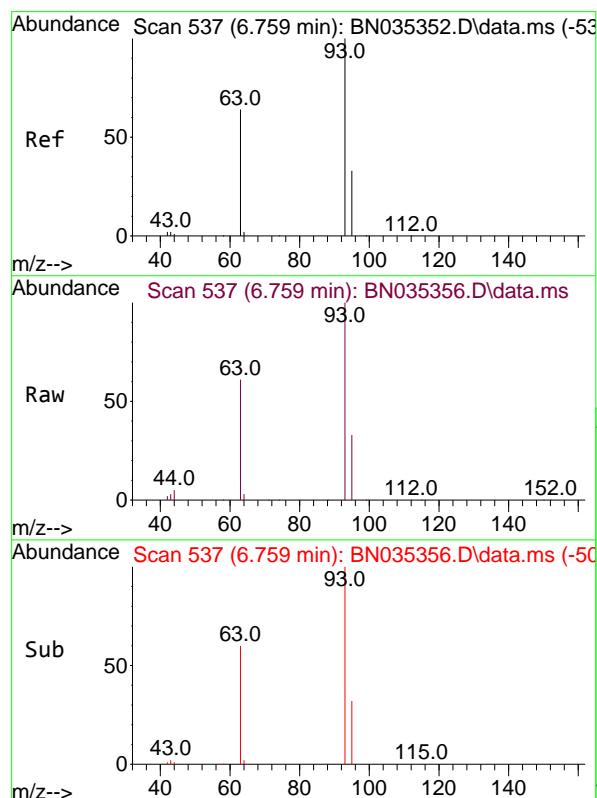
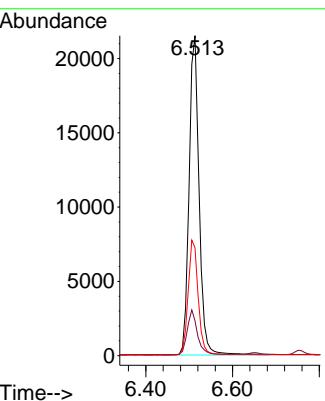




#5
 Phenol-d6
 Concen: 4.828 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

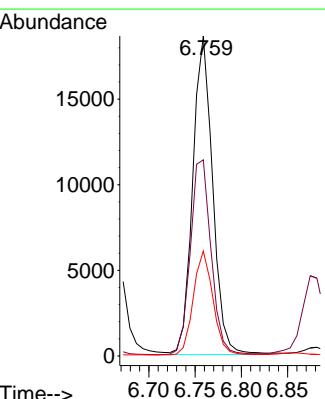
Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

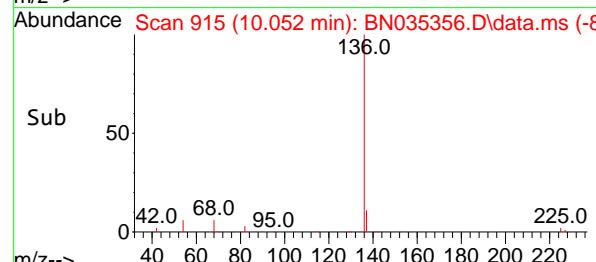
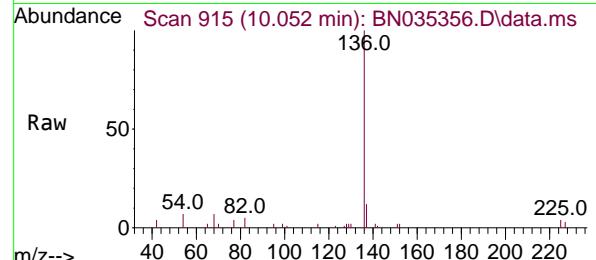
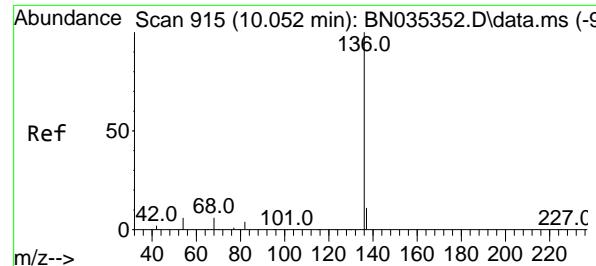
Tgt Ion: 99 Resp: 34560
 Ion Ratio Lower Upper
 99 100
 42 14.1 11.4 17.2
 71 36.4 29.3 43.9



#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# 9
 Delta R.T. 0.000 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

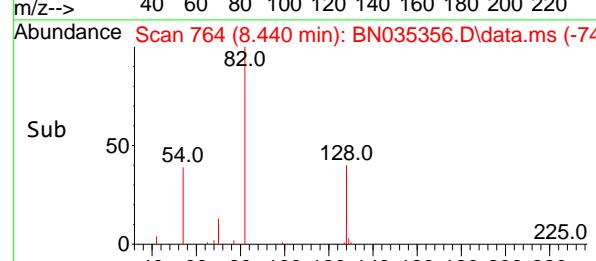
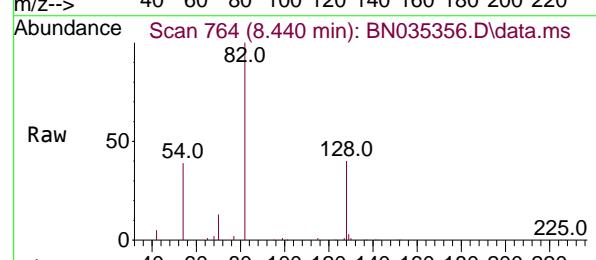
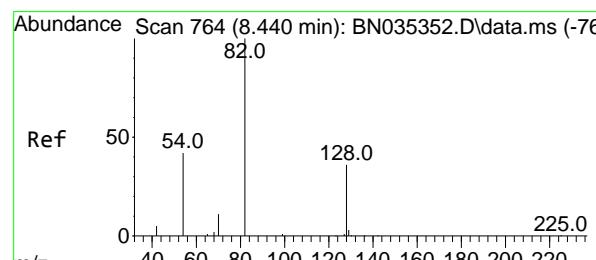
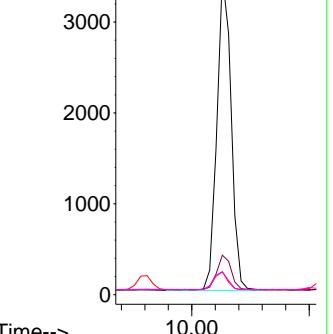
Tgt Ion:136 Resp: 5807

Ion Ratio Lower Upper

136	100
137	12.4
54	7.1
68	7.1
	10.2
	6.1
	6.4
	15.2
	9.1
	9.6

Abundance

10.052

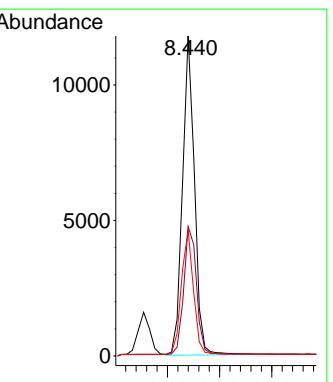


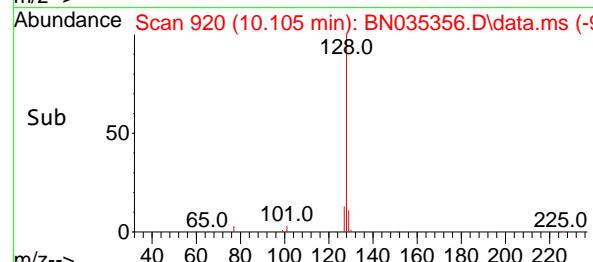
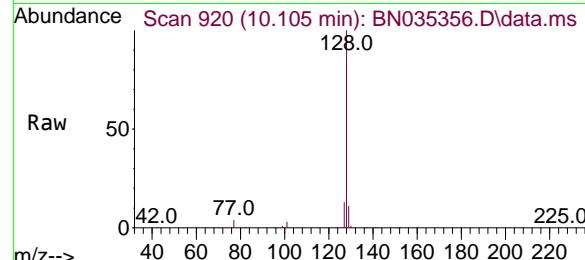
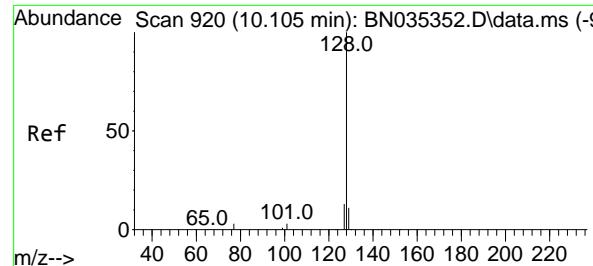
#8
 Nitrobenzene-d5
 Concen: 3.741 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

Tgt Ion: 82 Resp: 18911

Ion Ratio Lower Upper

82	100
128	40.4
54	39.4
	33.4
	36.7
	50.0
	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

Abundance

40000

30000

20000

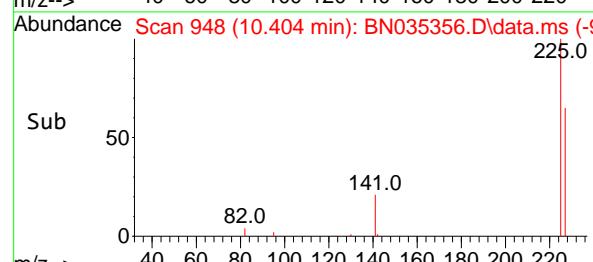
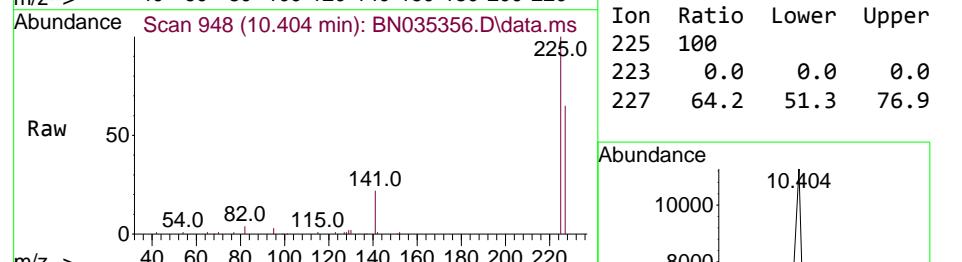
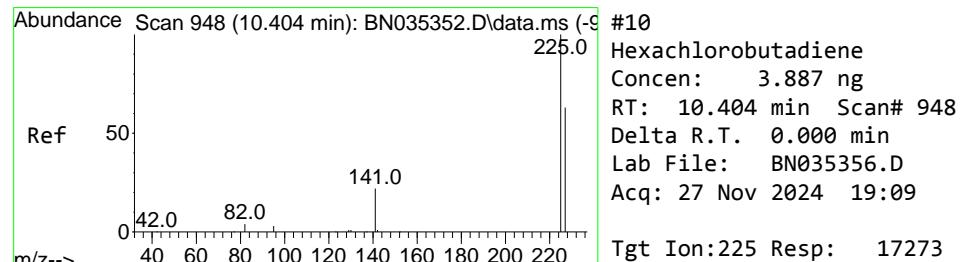
10000

0

10.105

Time-->

10.00 10.10 10.20



#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

Abundance

10000

8000

6000

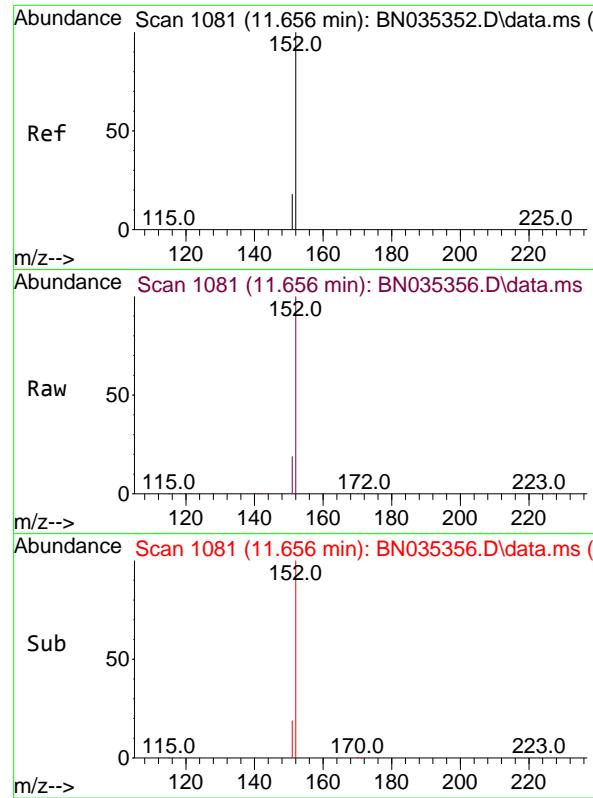
4000

2000

0

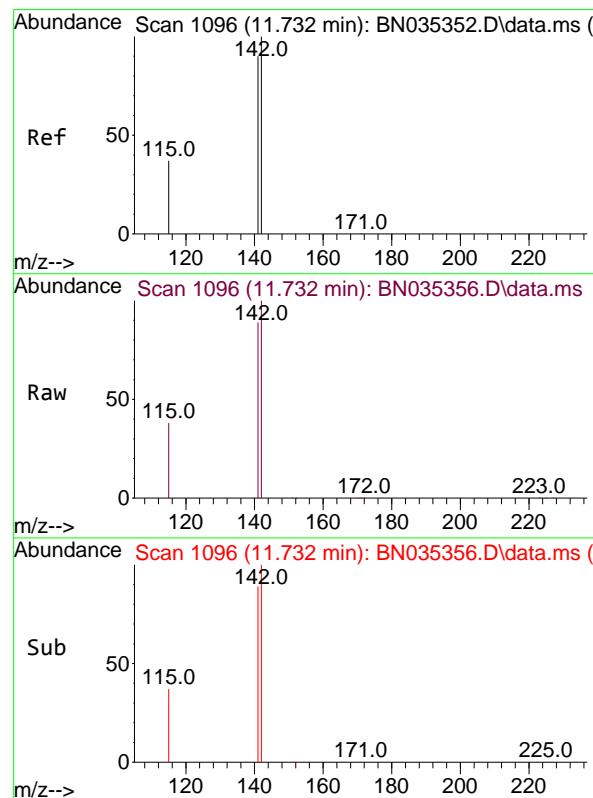
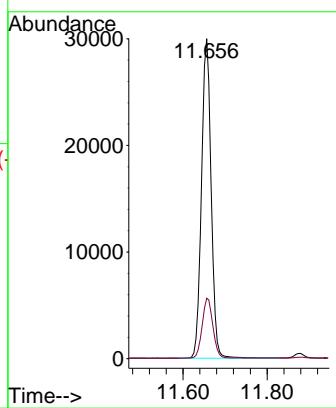
10.404

Time-->



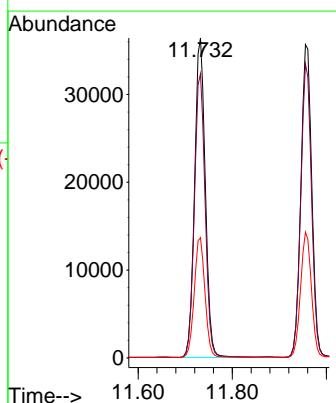
#11
2-Methylnaphthalene-d10
Concen: 4.601 ng
RT: 11.656 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035356.D
ClientSampleId : SSTDICC5.0
Acq: 27 Nov 2024 19:09

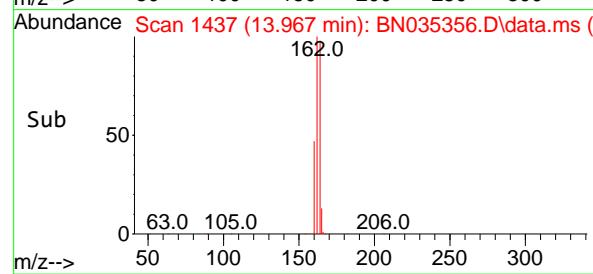
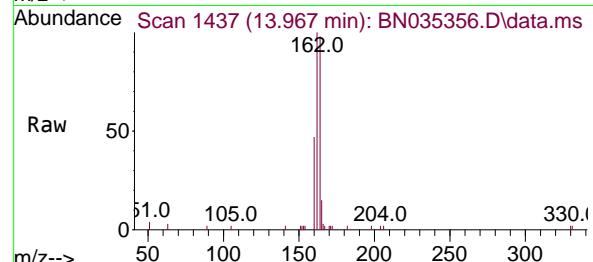
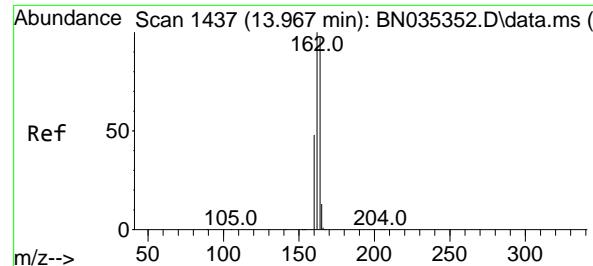
Tgt Ion:152 Resp: 47612
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



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

Tgt Ion:142 Resp: 57698
Ion Ratio Lower Upper
142 100
141 88.8 72.2 108.4
115 37.6 31.4 47.0





#13

Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 14363
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

Instrument :

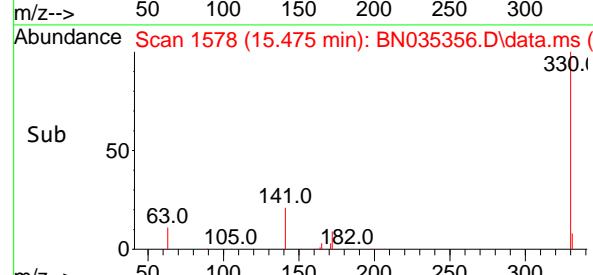
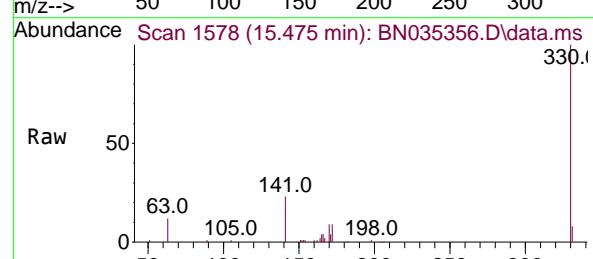
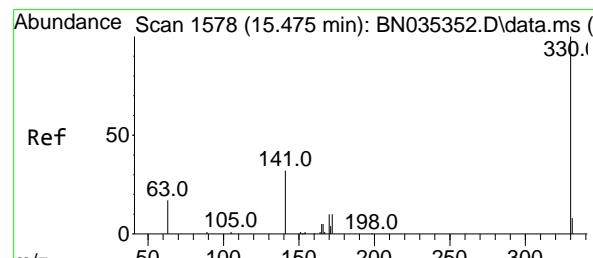
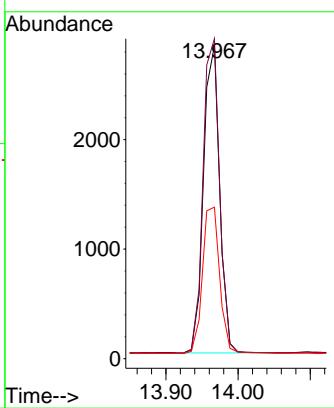
BNA_N

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

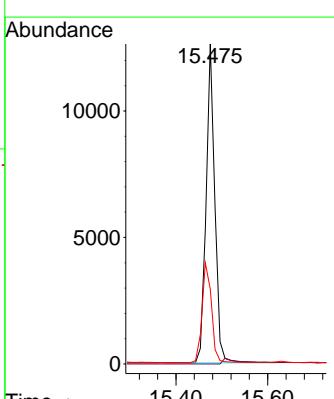


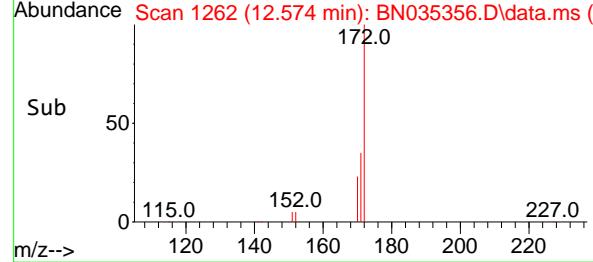
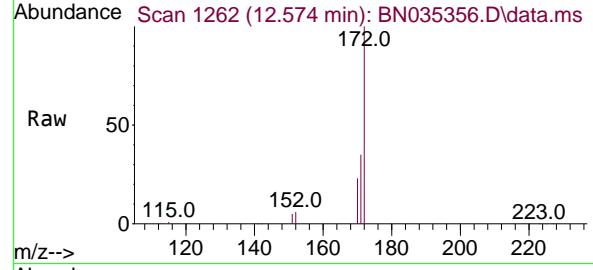
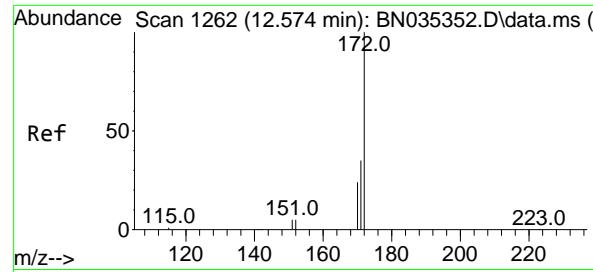
#14

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

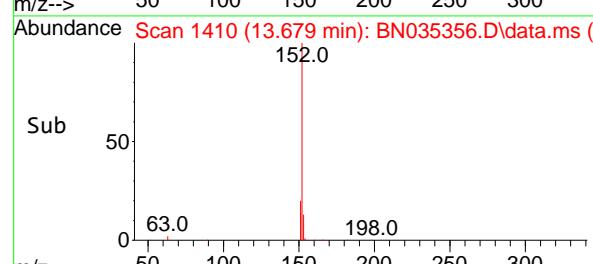
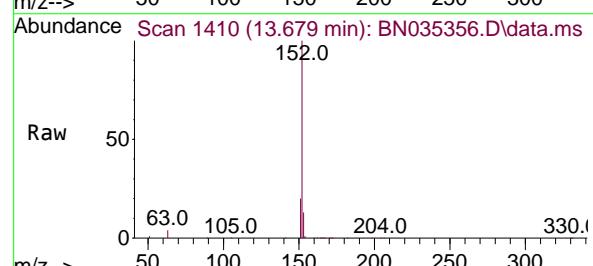
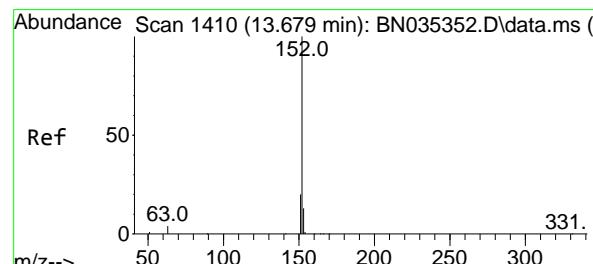
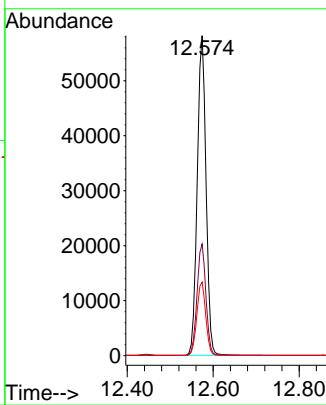
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	33.4	26.6	40.0





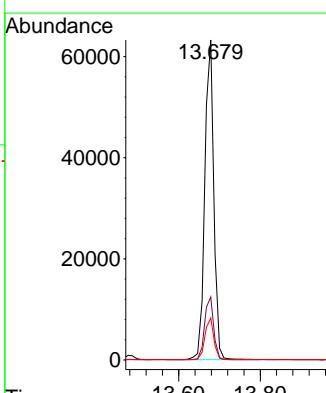
#15
2-Fluorobiphenyl
Concen: 4.650 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035356.D
ClientSampleId : SSTDICC5.0
Acq: 27 Nov 2024 19:09

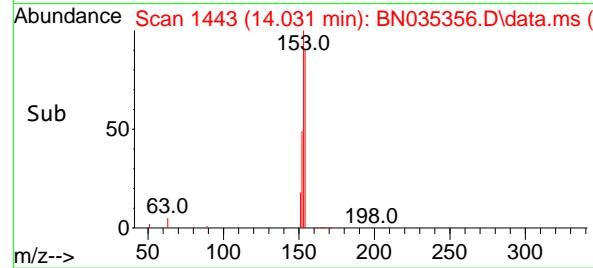
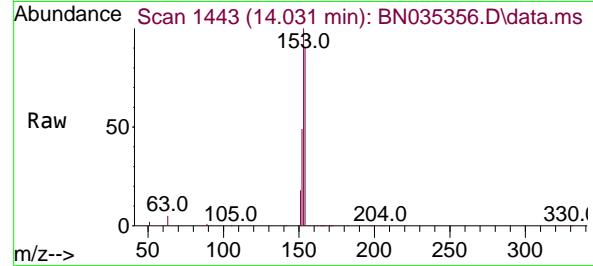
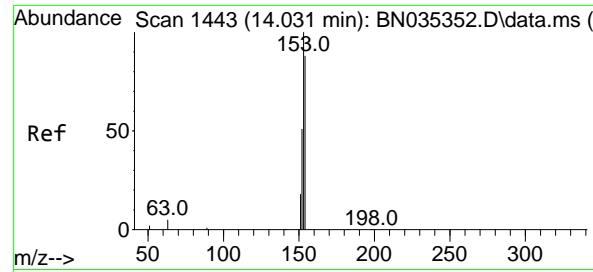
Tgt Ion:172 Resp: 82401
Ion Ratio Lower Upper
172 100
171 34.9 29.0 43.4
170 23.0 19.8 29.8



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

Tgt Ion:152 Resp: 97129
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2
153 12.9 10.4 15.6





#17

Acenaphthene

Concen: 5.088 ng

RT: 14.031 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

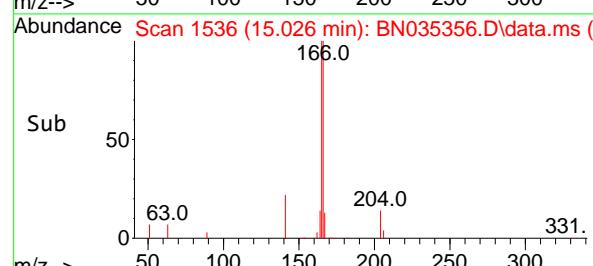
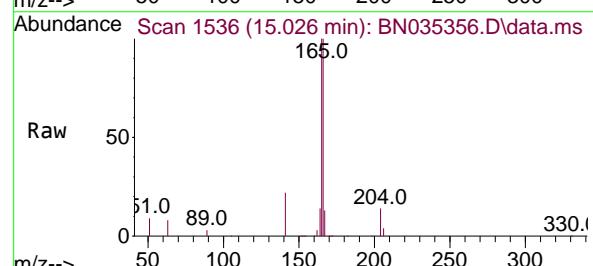
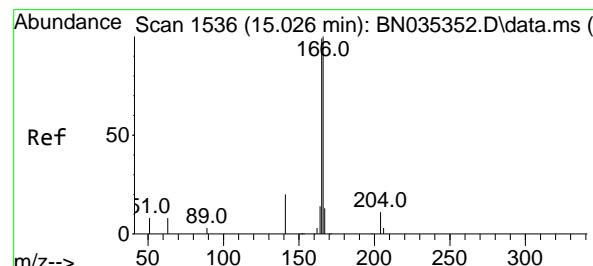
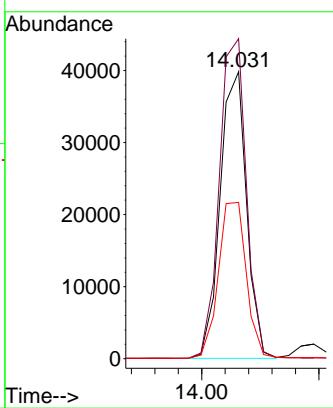
Tgt Ion:154 Resp: 62170

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

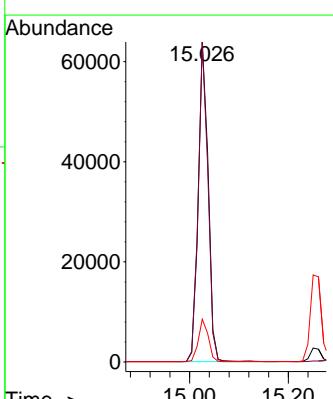
Tgt Ion:166 Resp: 88648

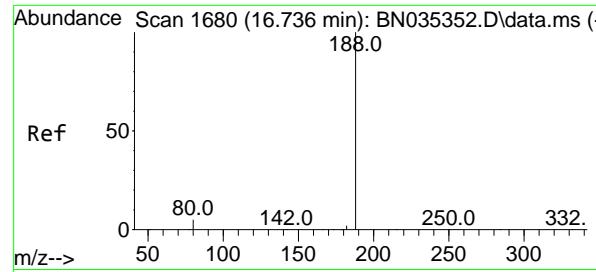
Ion Ratio Lower Upper

166 100

165 98.5 79.7 119.5

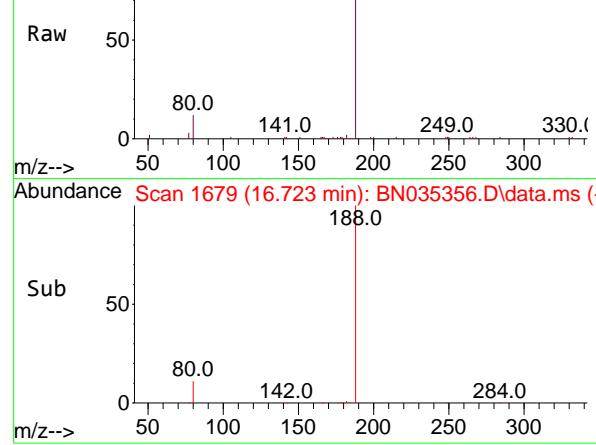
167 13.4 10.8 16.2



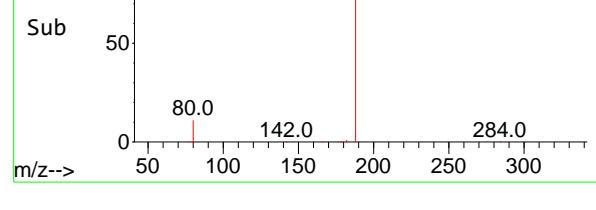


Ref 50
0

Scan 1679 (16.723 min): BN035356.D\data.ms



Raw 50
0



Sub 50
0

#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035356.D

Acq: 27 Nov 2024 19:09

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

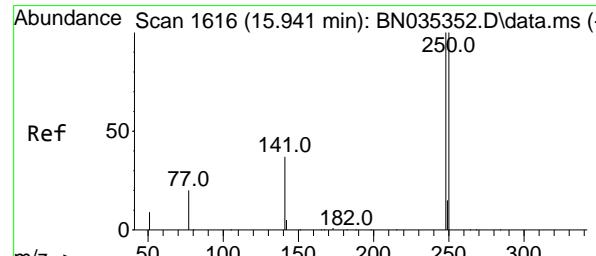
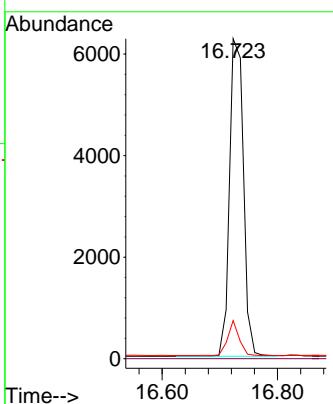
Tgt Ion:188 Resp: 10479

Ion Ratio Lower Upper

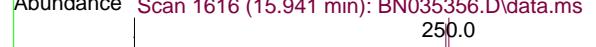
188 100

94 0.0 0.0 0.0

80 11.9 4.6 6.8#



Ref 50
0



Raw 50
0



Sub 50
0

#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

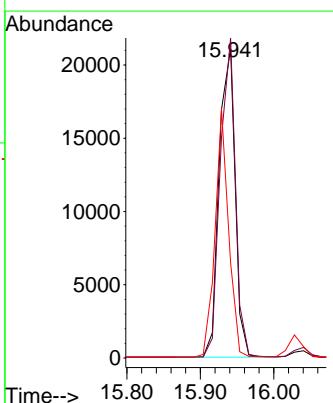
Tgt Ion:248 Resp: 31947

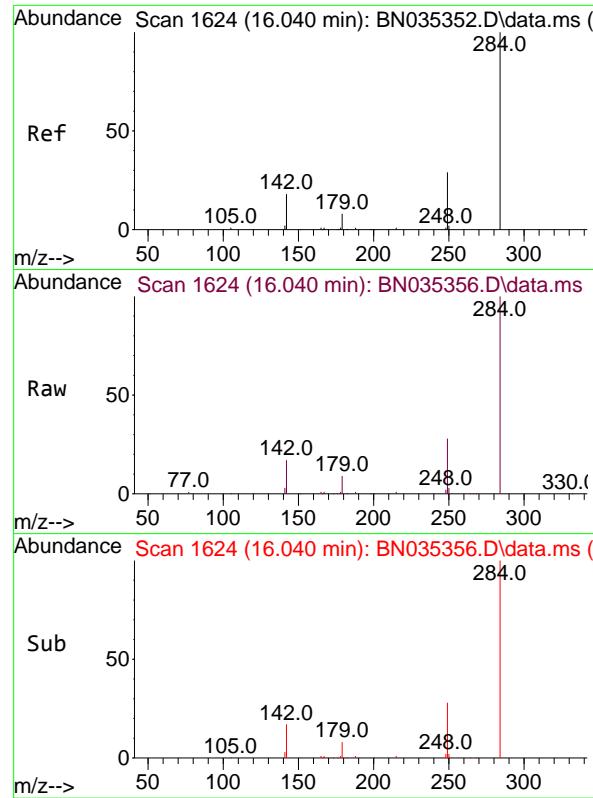
Ion Ratio Lower Upper

248 100

250 103.5 80.6 120.8

141 30.8 31.5 47.3#

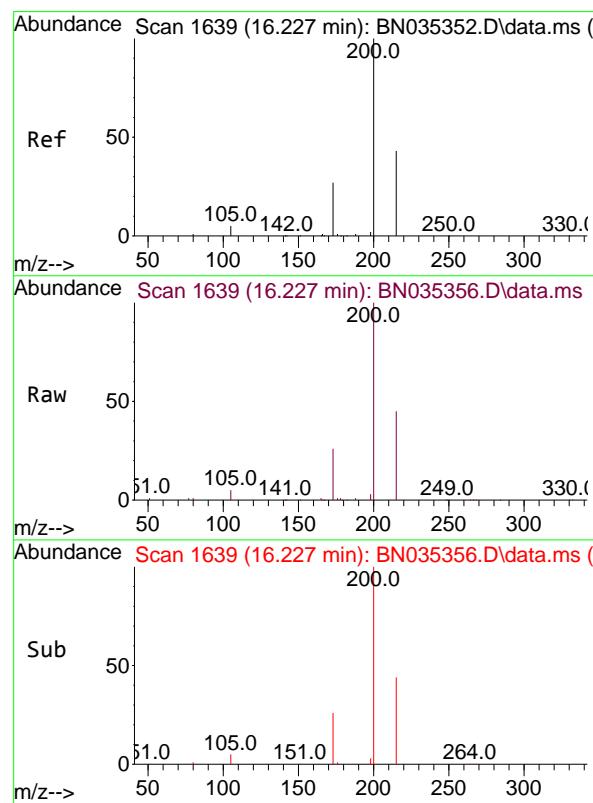
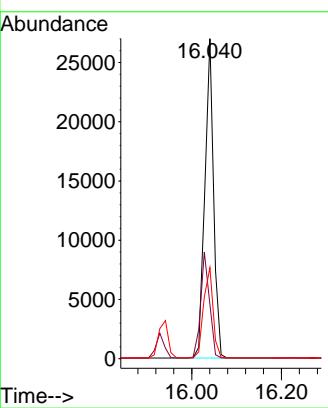




#22
Hexachlorobenzene
Concen: 5.241 ng
RT: 16.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

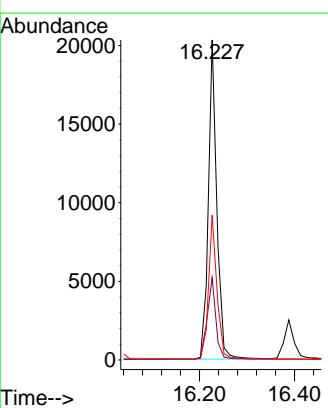
Instrument : BNA_N
ClientSampleId : SSTDICC5.0

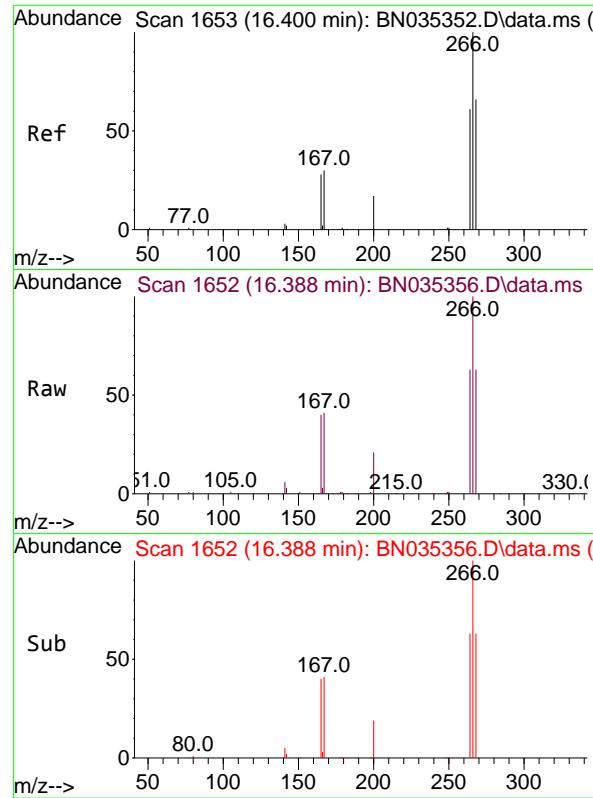
Tgt Ion:284 Resp: 36315
Ion Ratio Lower Upper
284 100
142 33.4 26.7 40.1
249 30.4 24.6 36.8



#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

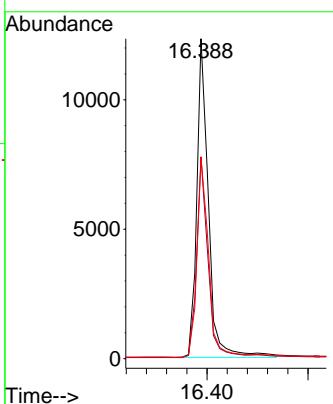
Tgt Ion:266 Resp: 19691

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

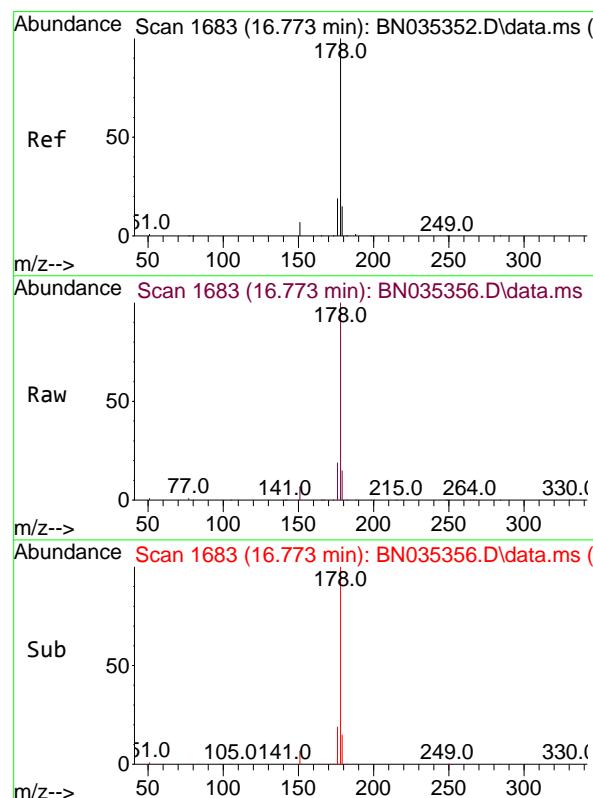
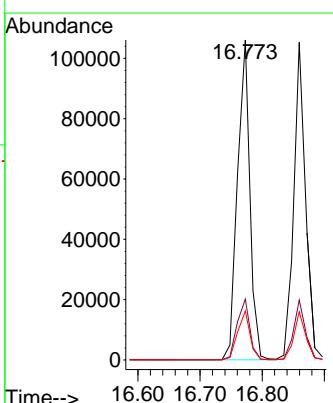
Tgt Ion:178 Resp: 147357

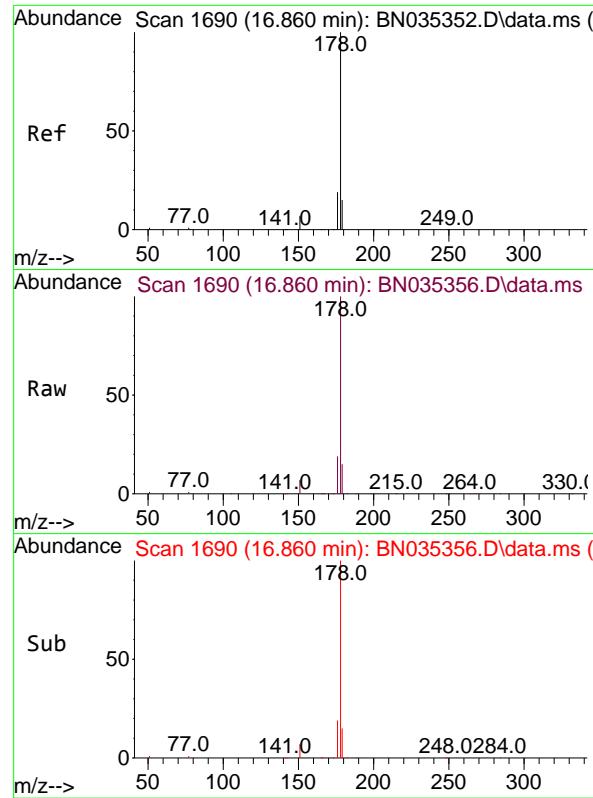
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

179 15.2 12.3 18.5

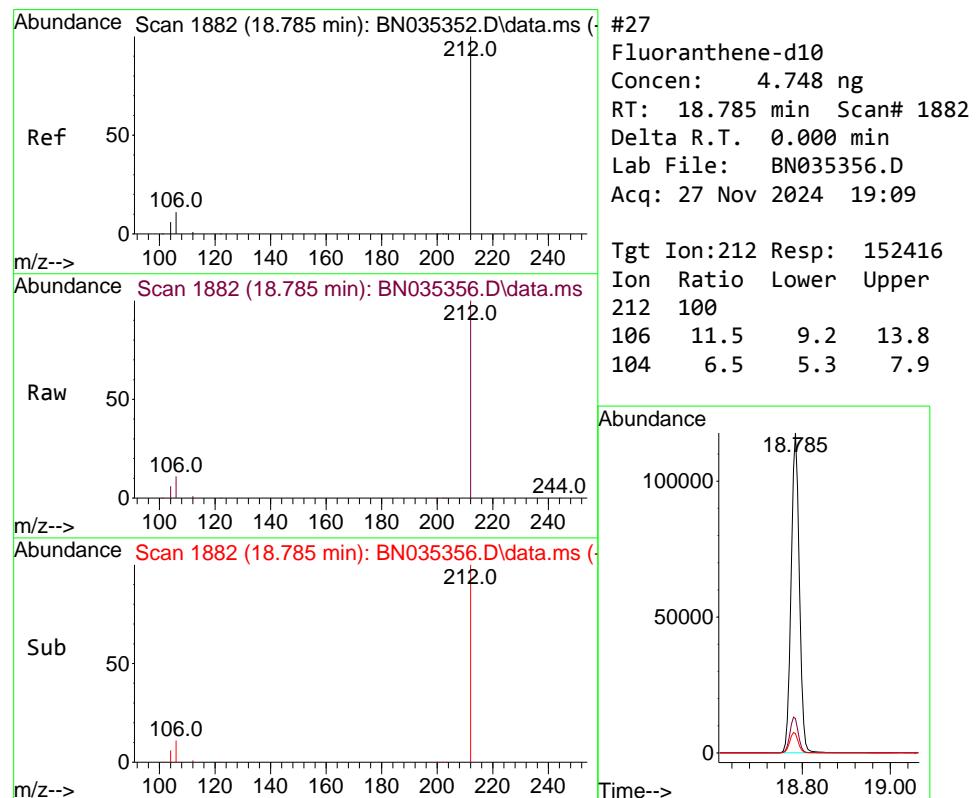
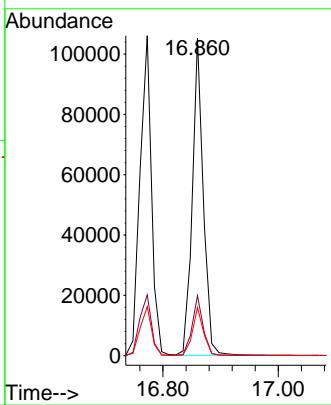




#26
Anthracene
Concen: 5.503 ng
RT: 16.860 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

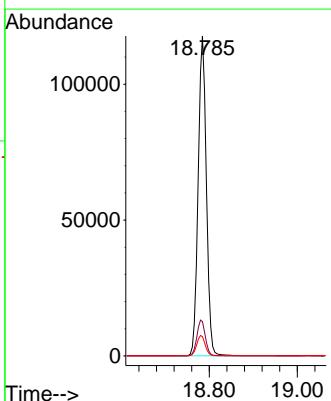
Instrument : BNA_N
ClientSampleId : SSTDICC5.0

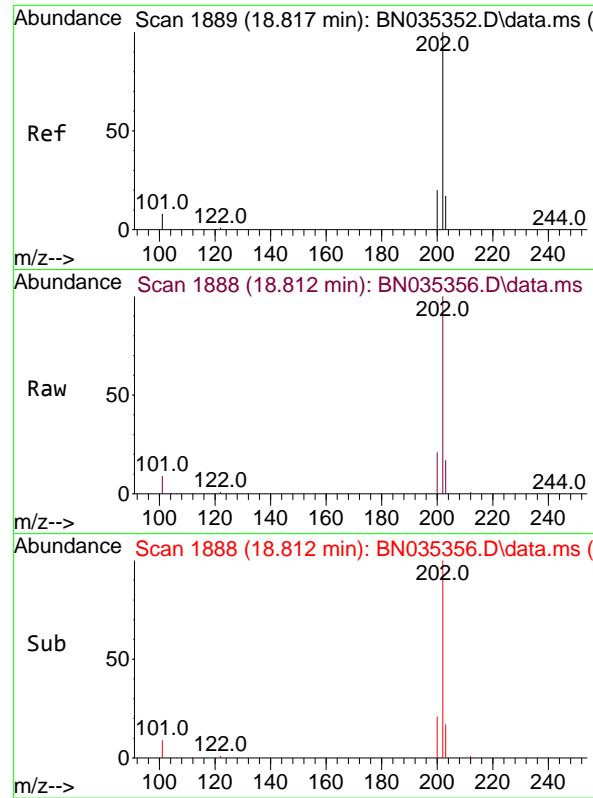
Tgt Ion:178 Resp: 139399
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.6 18.8



#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

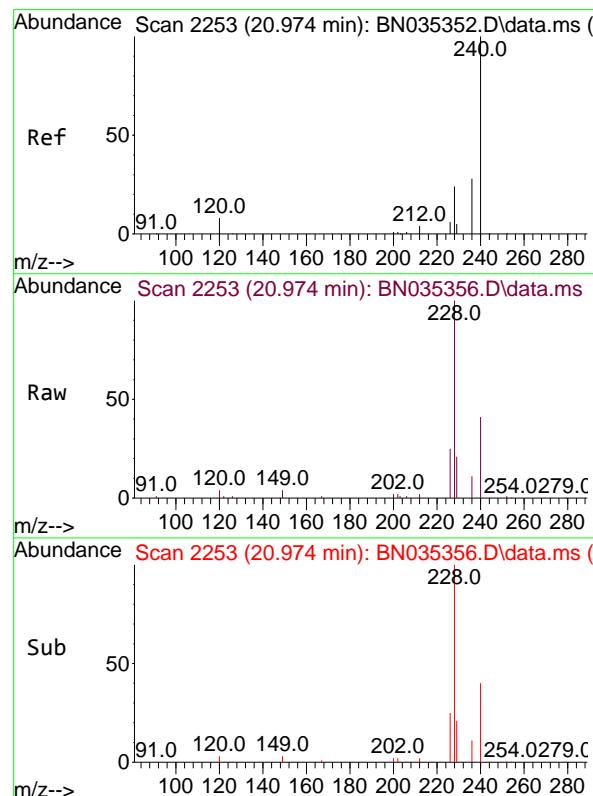
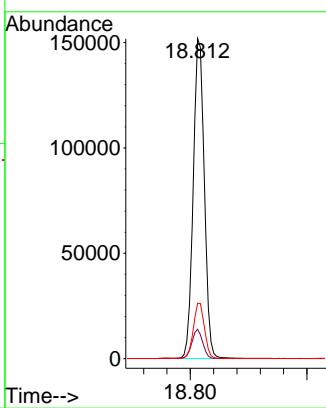




#28
 Fluoranthene
 Concen: 5.270 ng
 RT: 18.812 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

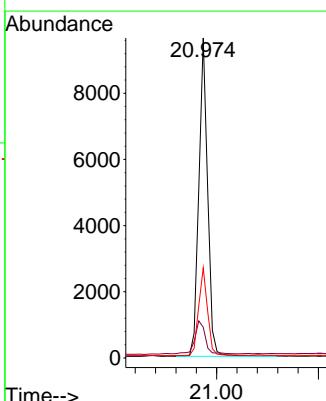
Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

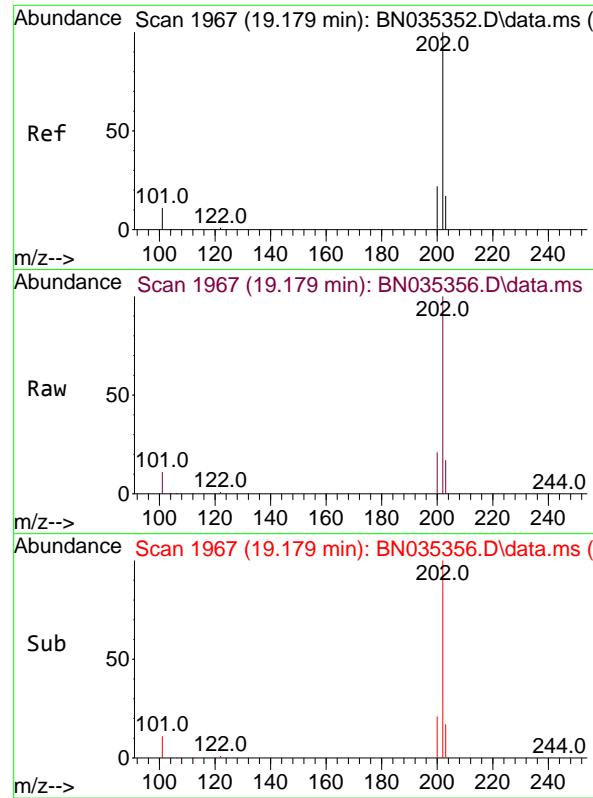
Tgt Ion:202 Resp: 199850
 Ion Ratio Lower Upper
 202 100
 101 9.1 7.4 11.0
 203 17.4 13.7 20.5



#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

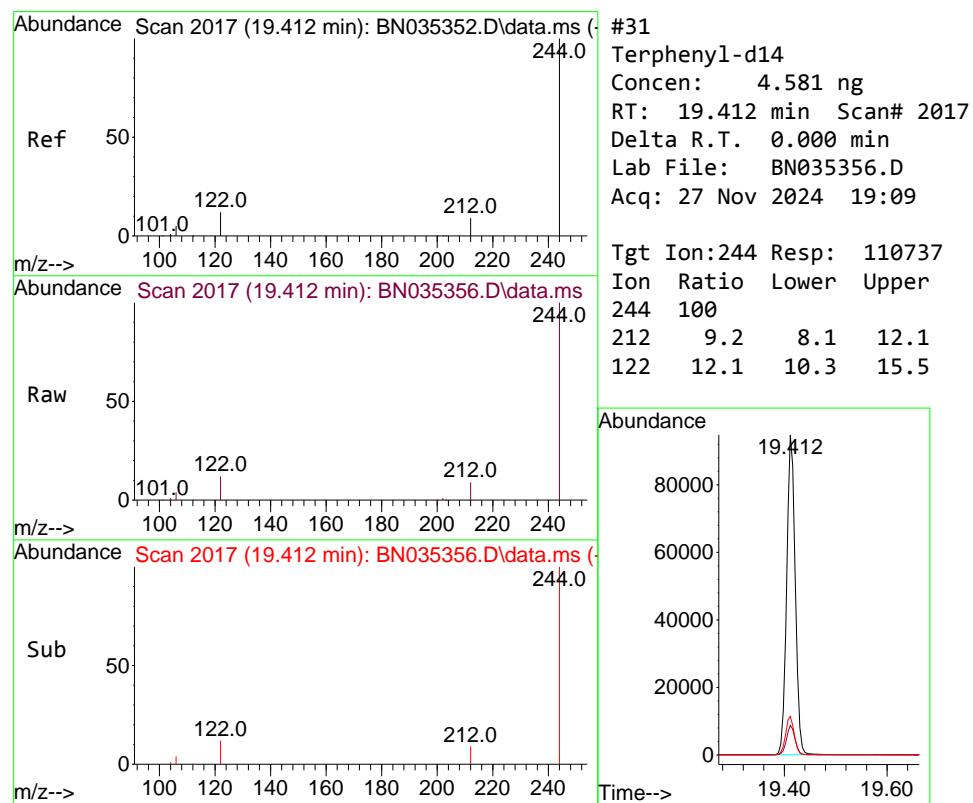
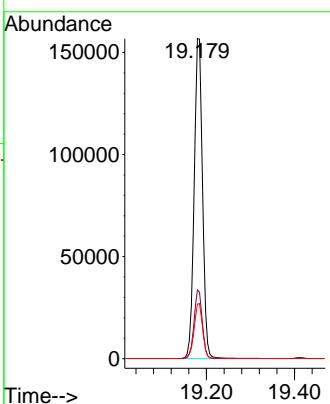




#30
Pyrene
Concen: 5.370 ng
RT: 19.179 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

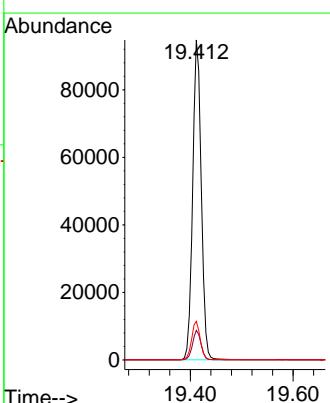
Instrument : BNA_N
ClientSampleId : SSTDICC5.0

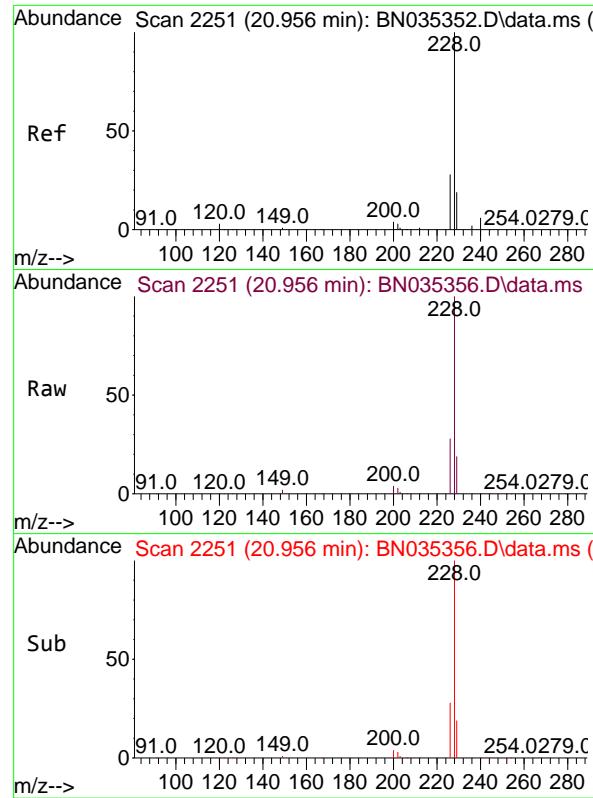
Tgt Ion:202 Resp: 206018
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5



#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

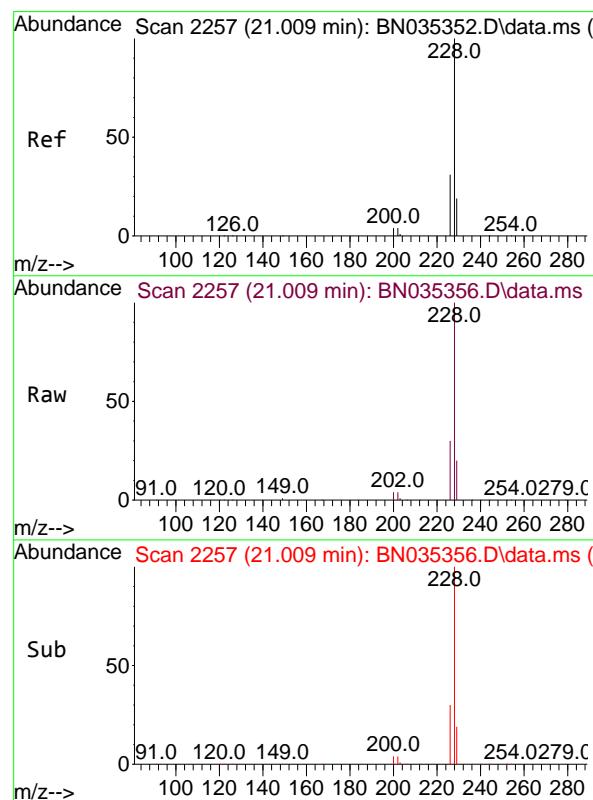
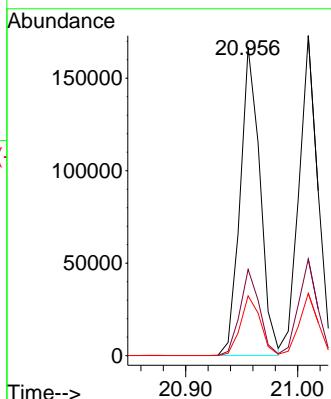




#32
 Benzo(a)anthracene
 Concen: 5.128 ng
 RT: 20.956 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035356.D
 Acq: 27 Nov 2024 19:09

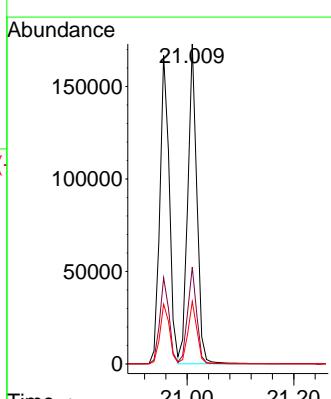
Instrument : BNA_N
 ClientSampleId : SSTDICC5.0

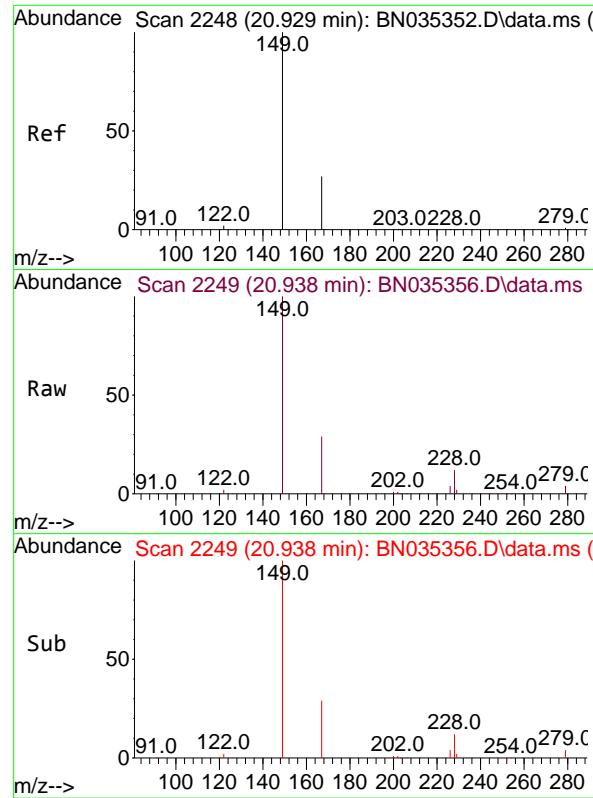
Tgt Ion:228 Resp: 205712
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.5 33.7
 229 19.4 15.8 23.8



#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

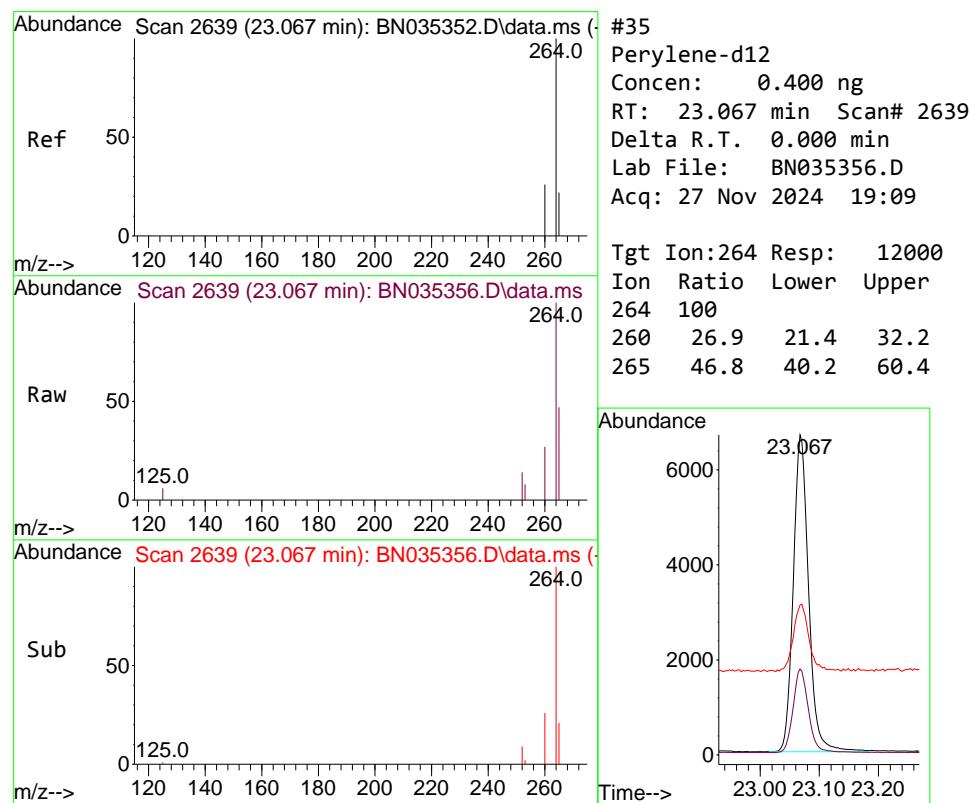
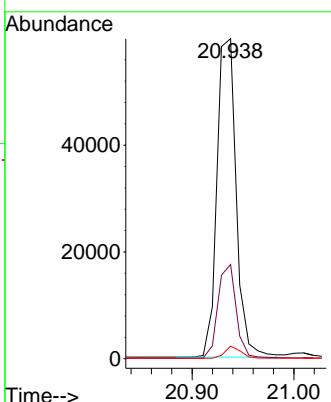
Tgt Ion:228 Resp: 204475
 Ion Ratio Lower Upper
 228 100
 226 30.2 24.6 37.0
 229 19.5 15.9 23.9





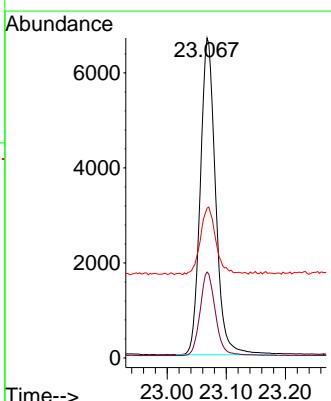
#34
Bis(2-ethylhexyl)phthalate
Concen: 3.721 ng
RT: 20.938 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.009 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

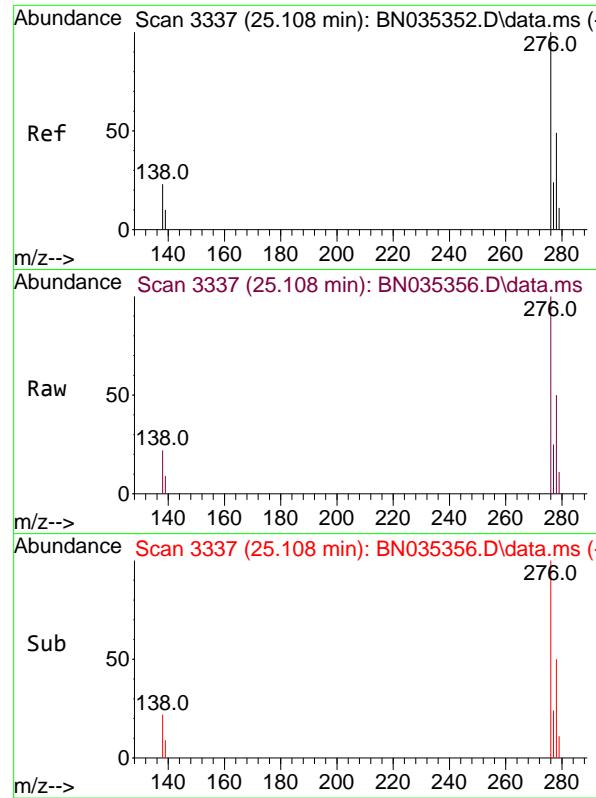
Tgt Ion:149 Resp: 78322
Ion Ratio Lower Upper
149 100
167 28.1 22.2 33.4
279 3.2 2.7 4.1



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

Tgt Ion:264 Resp: 12000
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 46.8 40.2 60.4

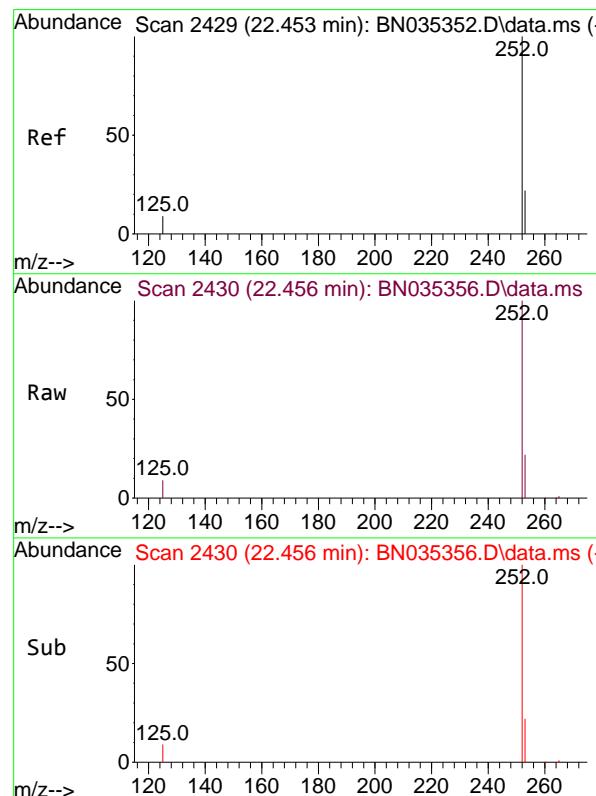
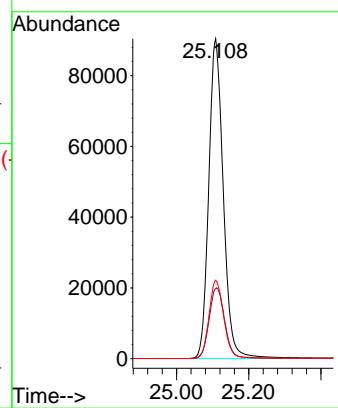




#36
Indeno(1,2,3-cd)pyrene
Concen: 5.279 ng
RT: 25.108 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

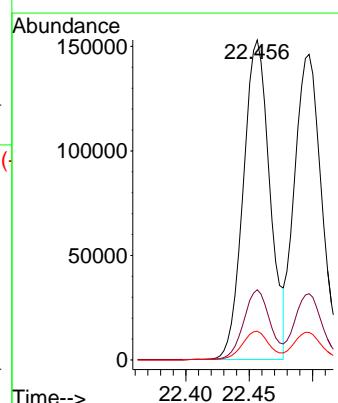
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ClientSampleId : SSTDICC5.0

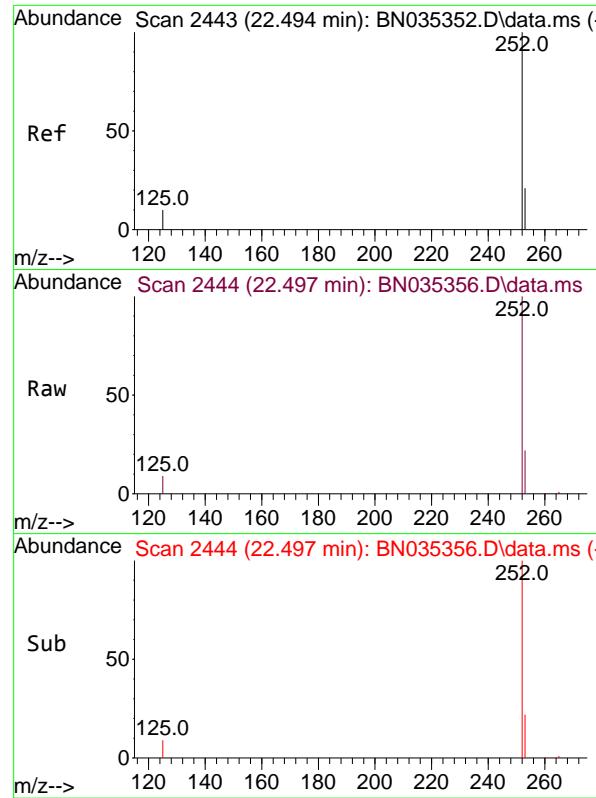
Tgt Ion:276 Resp: 252709
Ion Ratio Lower Upper
276 100
138 23.7 19.4 29.0
277 25.0 19.8 29.6



#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# 2

Instrument :

BNA_N

Delta R.T. 0.003 min

Lab File: BN035356.D

ClientSampleId :

Acq: 27 Nov 2024 19:09 SSTDICC5.0

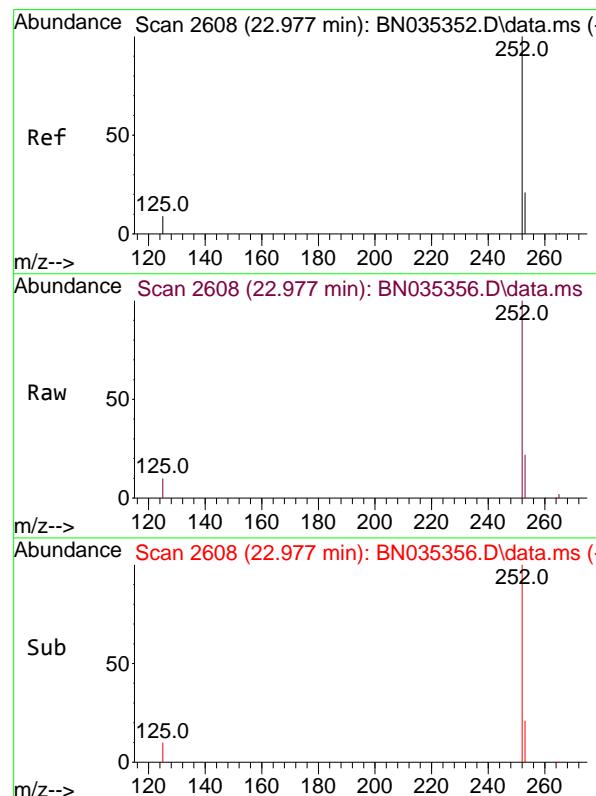
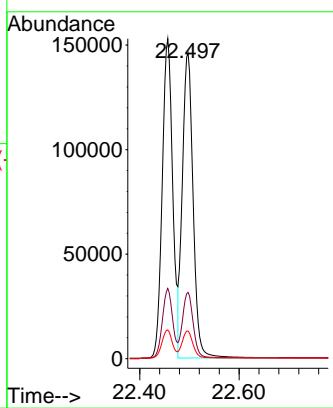
Tgt Ion:252 Resp: 220146

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

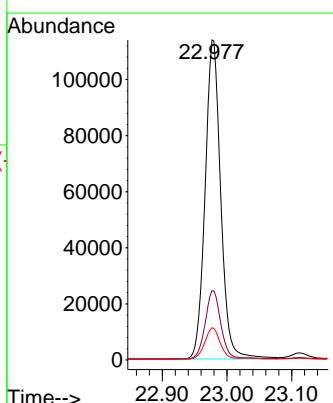
Tgt Ion:252 Resp: 190665

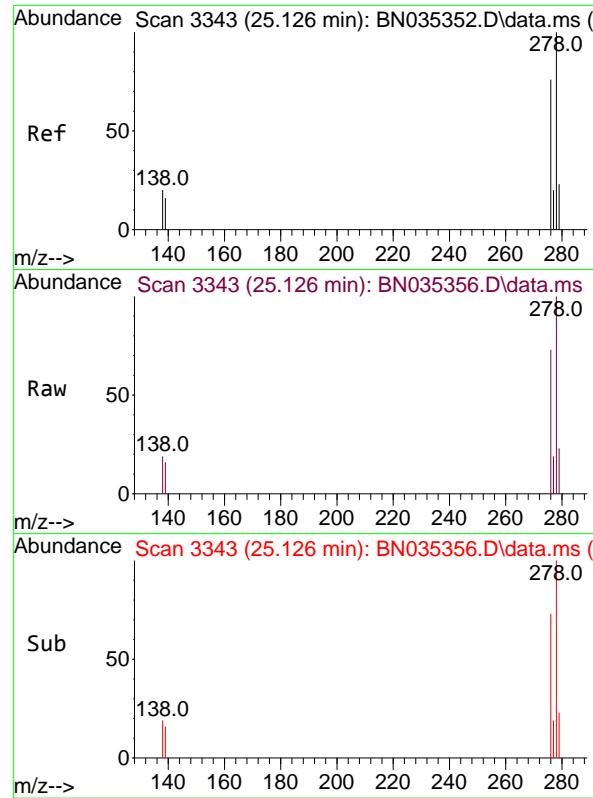
Ion Ratio Lower Upper

252 100

253 21.6 20.2 30.4

125 10.0 10.9 16.3#

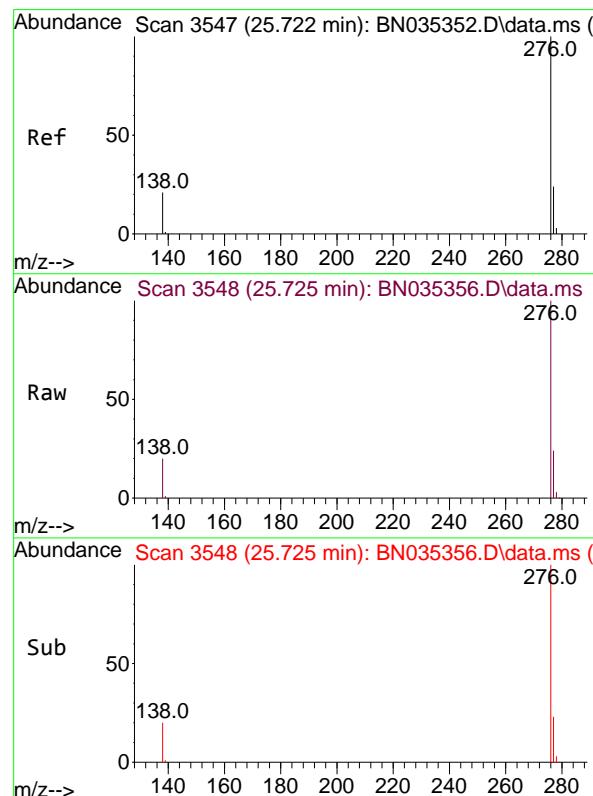
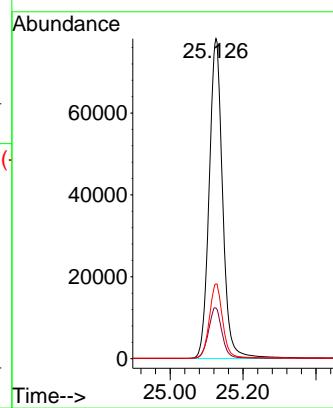




#40
Dibenzo(a,h)anthracene
Concen: 5.269 ng
RT: 25.126 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035356.D
Acq: 27 Nov 2024 19:09

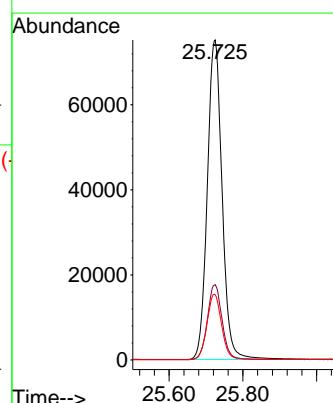
Instrument : BNA_N
ClientSampleId : SSTDICC5.0

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



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

Manual Integrations
APPROVED

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

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

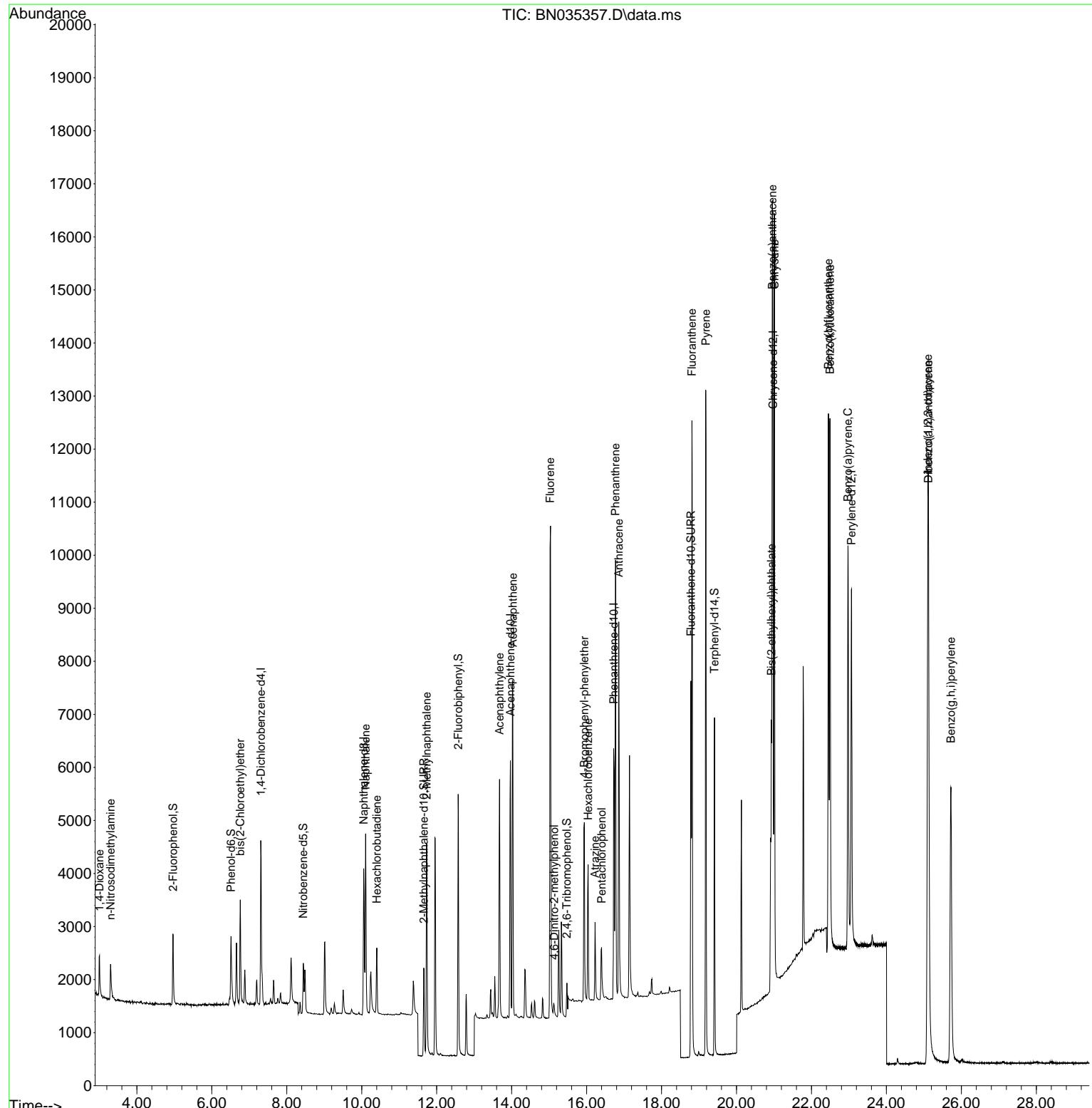
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Data File : BN035357.D
Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

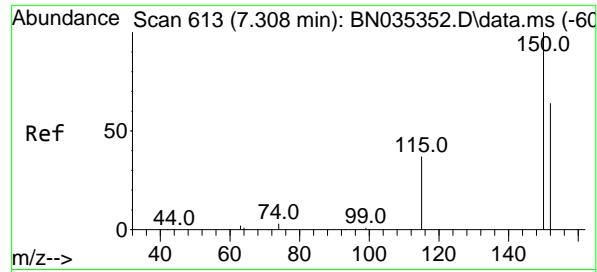
Quant Time: Nov 27 23:06:03 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

Manual Integrations APPROVED

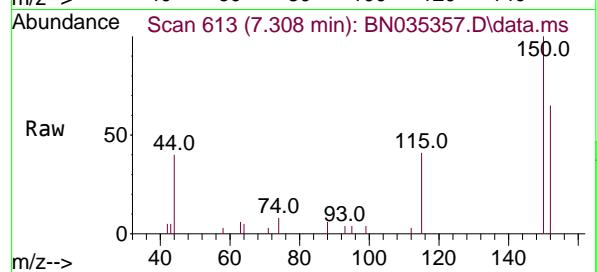
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

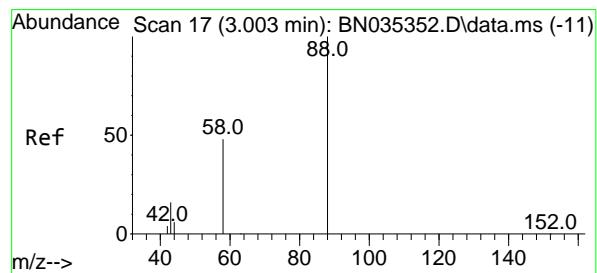
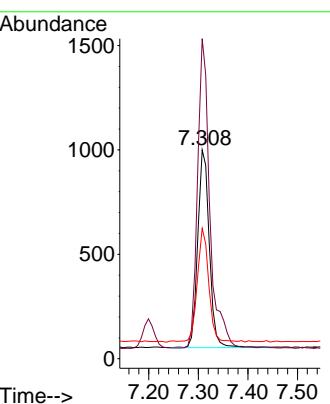
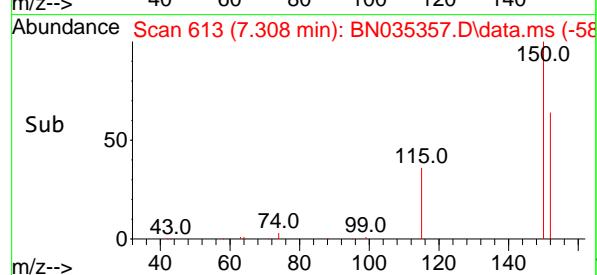
Instrument : BNA_N
ClientSampleId : ICVBN112724



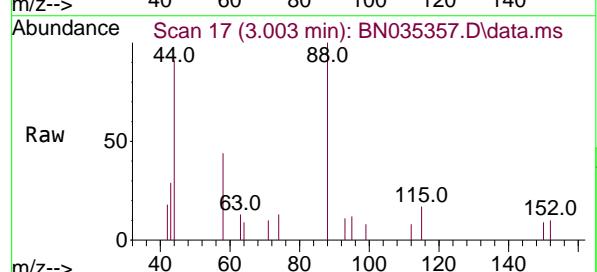
Tgt Ion:152 Resp: 1540
Ion Ratio Lower Upper
152 100
150 153.3 124.0 186.0
115 62.4 49.6 74.4

Manual Integrations APPROVED

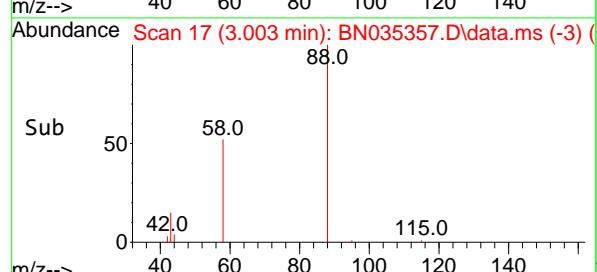
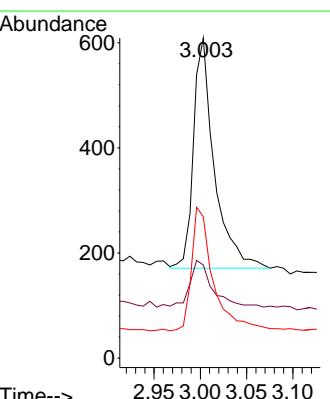
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

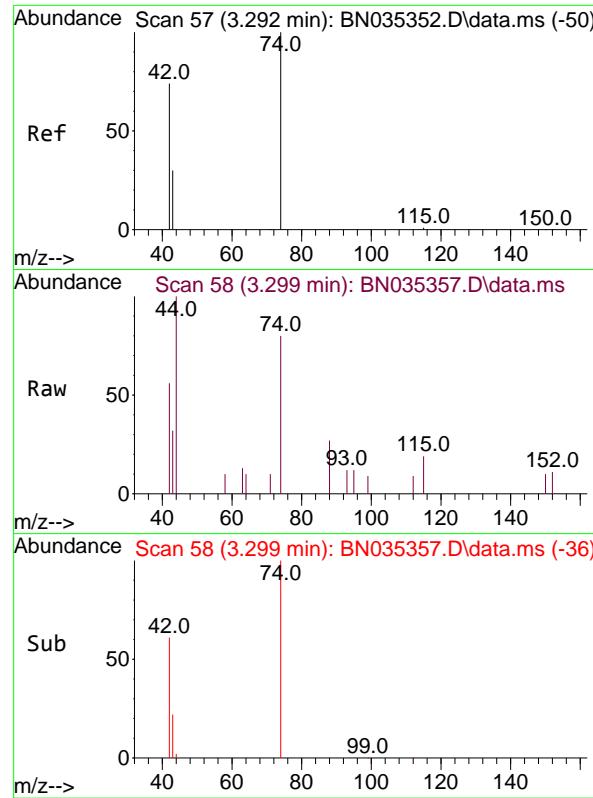


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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



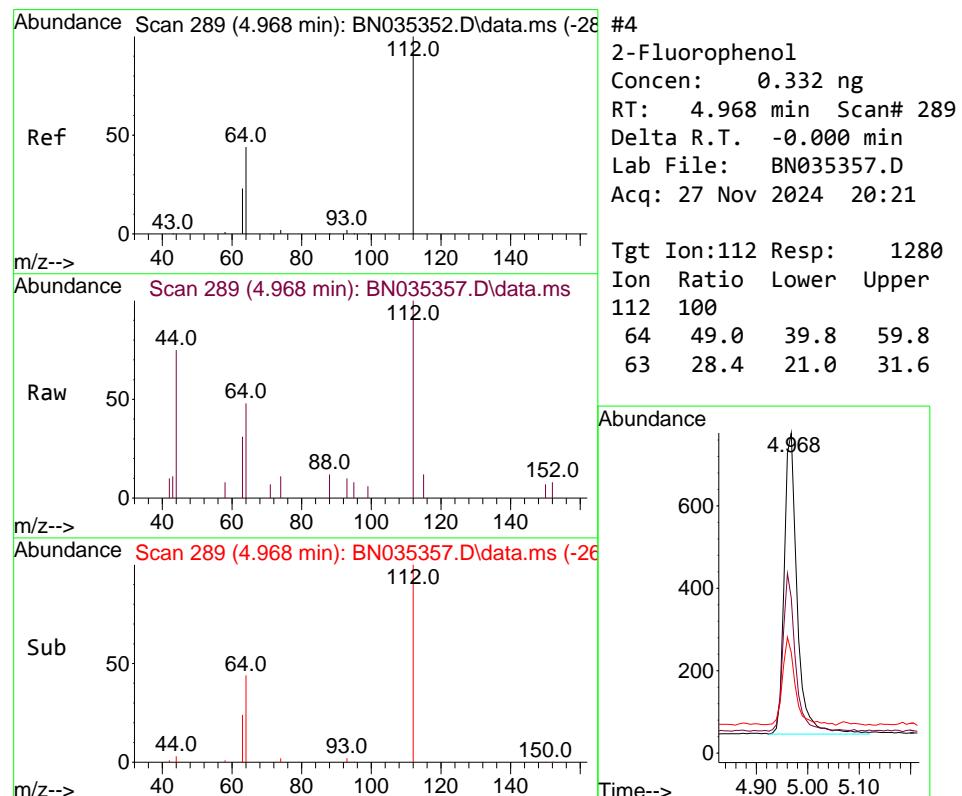
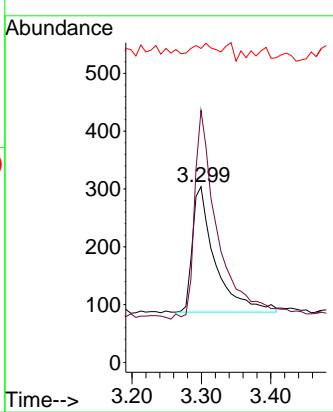


#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument : BNA_N
ClientSampleId : ICVBN112724

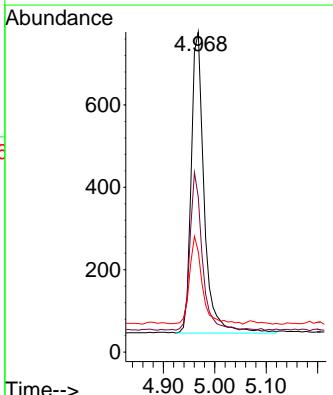
Manual Integrations APPROVED

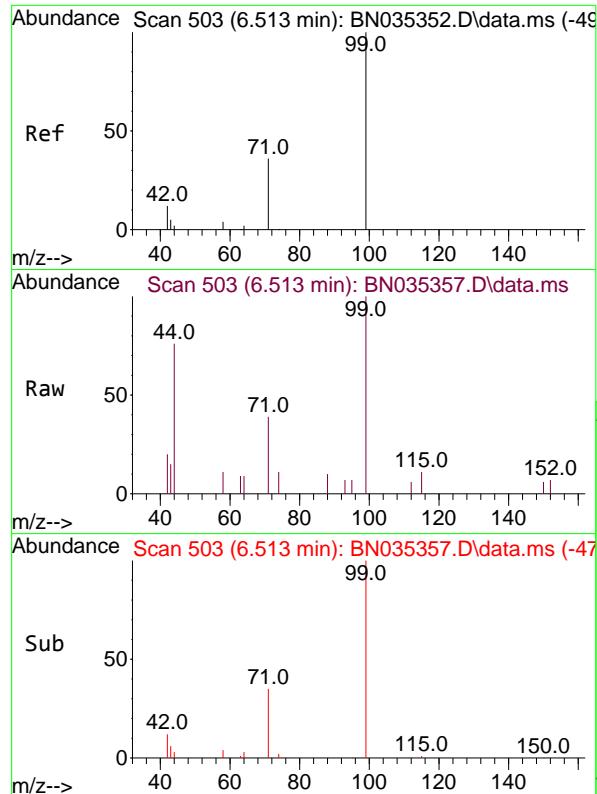
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



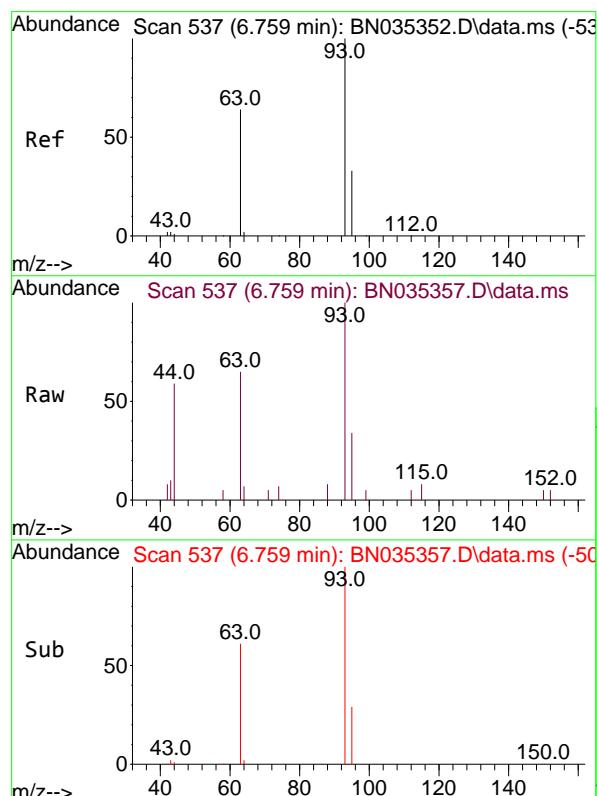
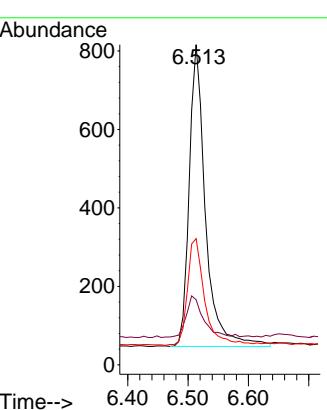


#5
 Phenol-d6
 Concen: 0.310 ng
 RT: 6.513 min Scan# 5
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Instrument : BNA_N
 ClientSampleId : ICVBN112724

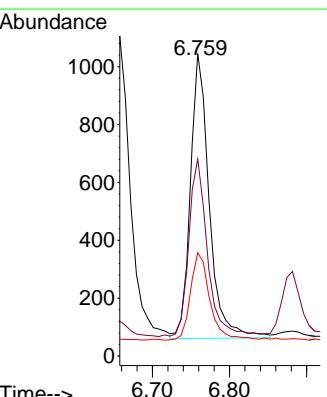
Manual Integrations
APPROVED

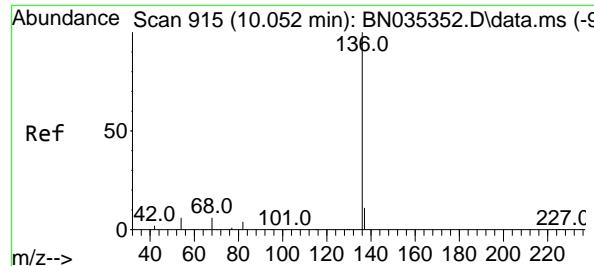
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



#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

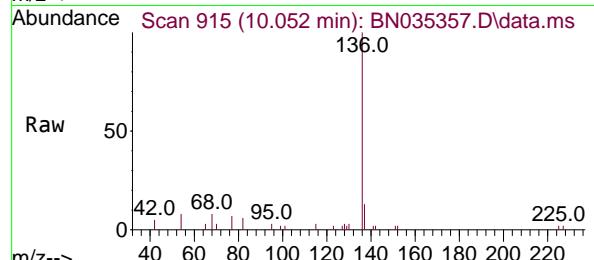
Tgt Ion: 93 Resp: 1676
 Ion Ratio Lower Upper
 93 100
 63 62.1 50.4 75.6
 95 31.4 25.7 38.5





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

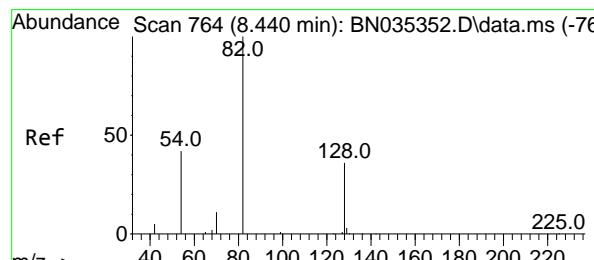
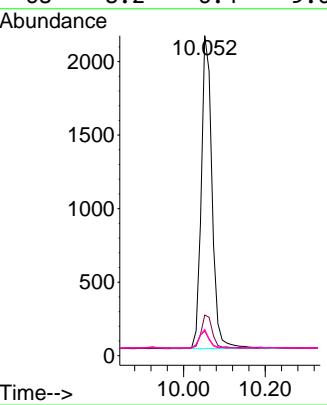
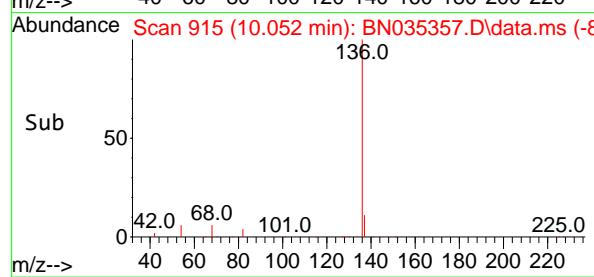
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ClientSampleId : ICBBN112724



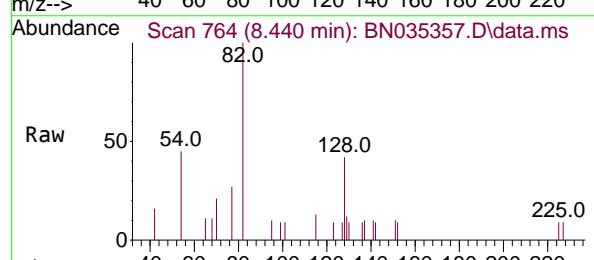
Tgt Ion:136 Resp: 390
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 7.7 6.1 9.1
68 8.2 6.4 9.6

Manual Integrations APPROVED

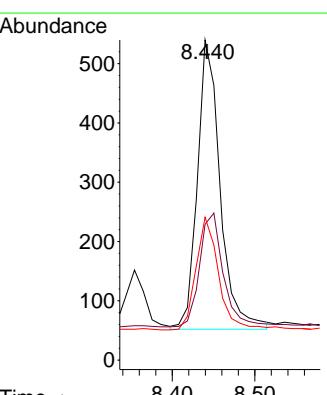
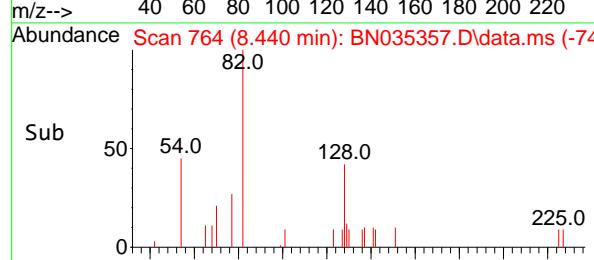
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024

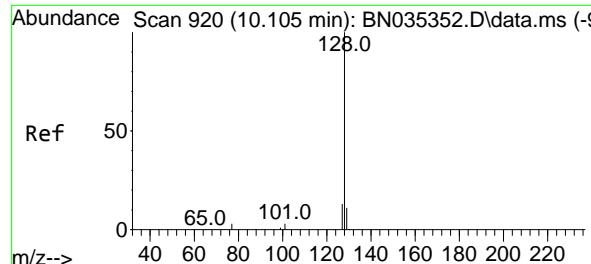


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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

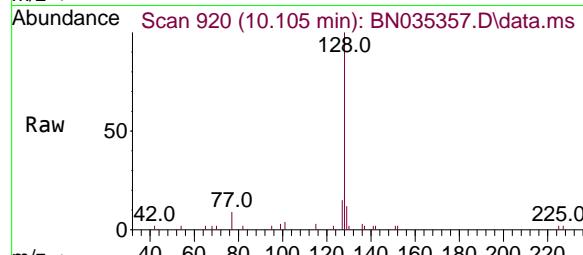
Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

ClientSampleId :

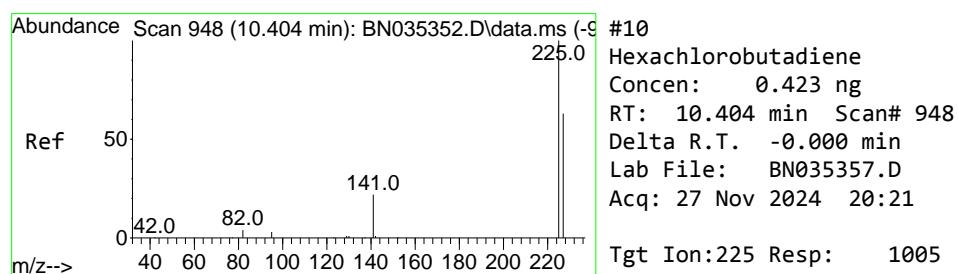
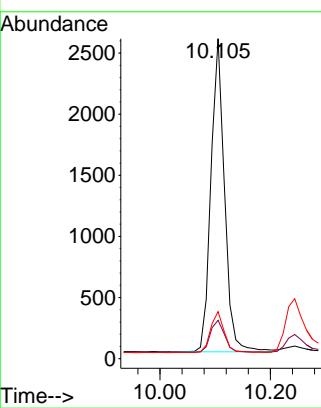
ICVBN112724



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

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Supervised By :mohammad ahmed 12/03/2024



#10

Hexachlorobutadiene

Concen: 0.423 ng

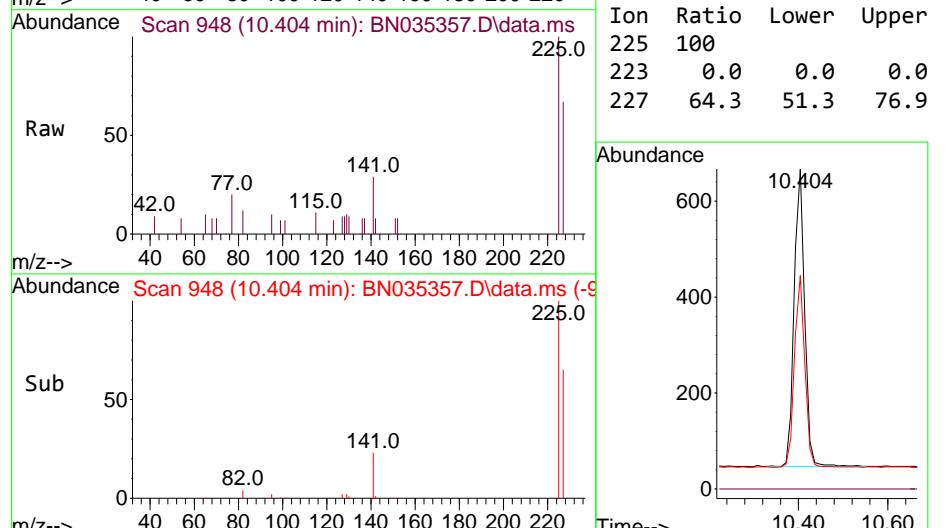
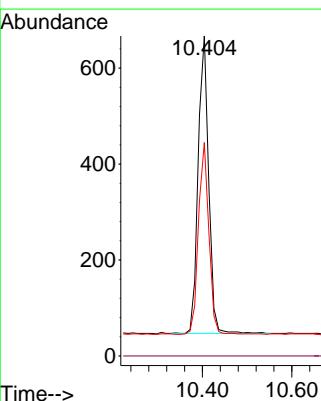
RT: 10.404 min Scan# 948

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



Sub 50
m/z--> 0 40 60 80 100 120 140 160 180 200 220

225.0

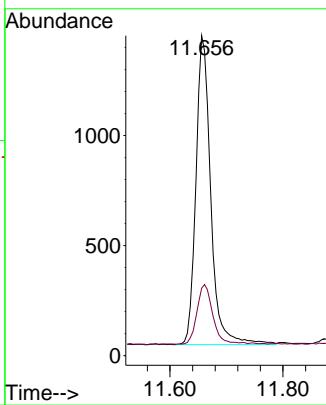
#11
 2-Methylnaphthalene-d10
 Concen: 0.420 ng
 RT: 11.656 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Instrument : BNA_N
 ClientSampleId : ICVBN112724

Tgt Ion:152 Resp: 2569
 Ion Ratio Lower Upper
 152 100
 151 20.5 16.6 25.0

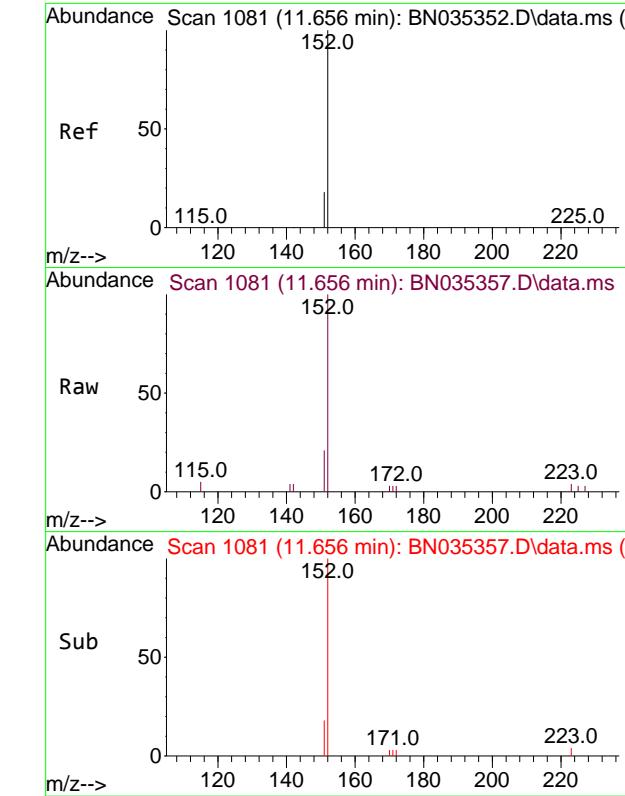
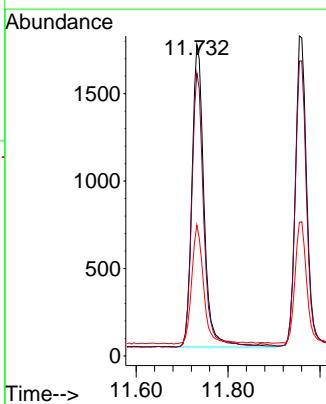
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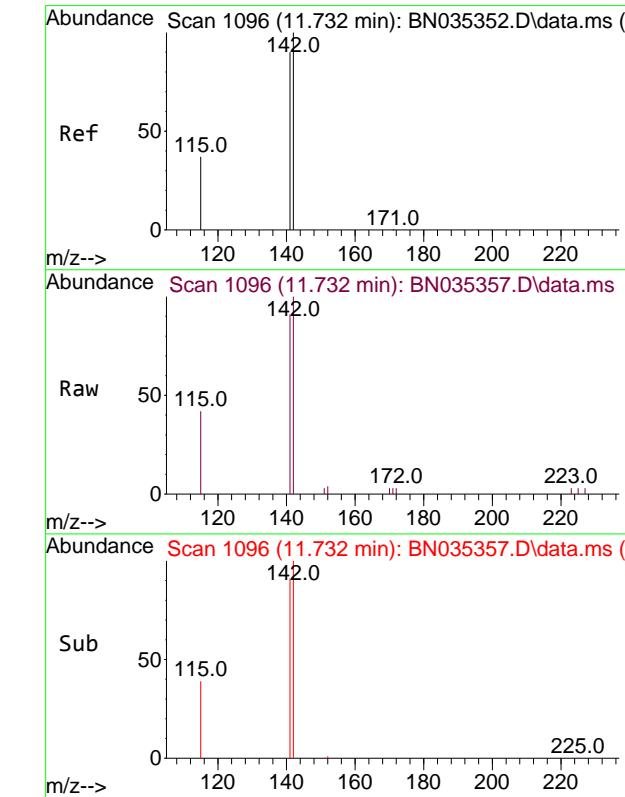
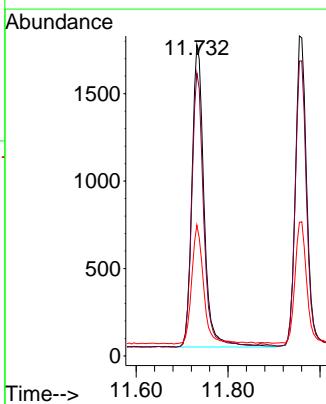
#12
 2-Methylnaphthalene
 Concen: 0.428 ng
 RT: 11.732 min Scan# 1096
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

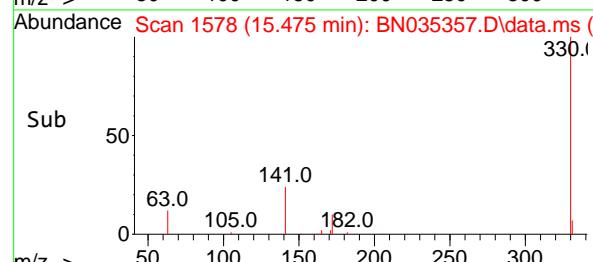
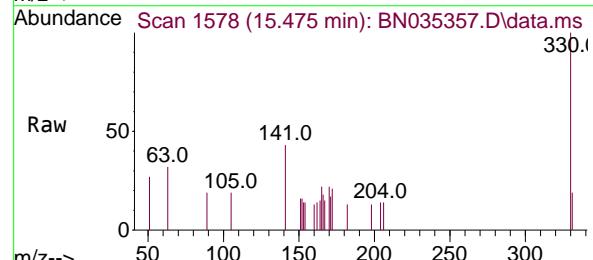
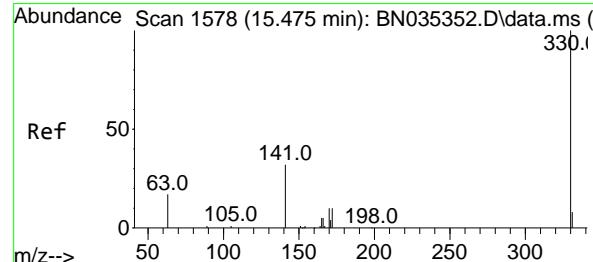
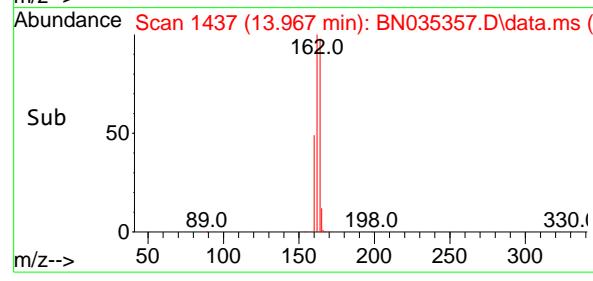
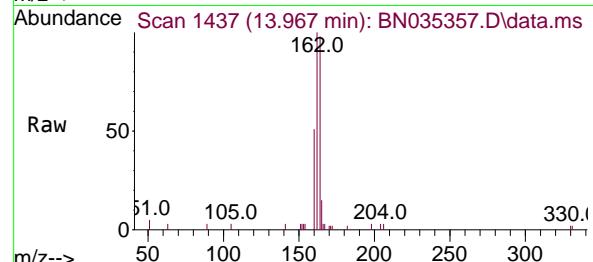
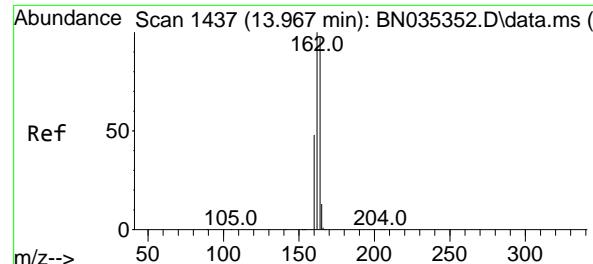
Tgt Ion:142 Resp: 3157
 Ion Ratio Lower Upper
 142 100
 141 90.9 72.2 108.4
 115 42.0 31.4 47.0



#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# 1437

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

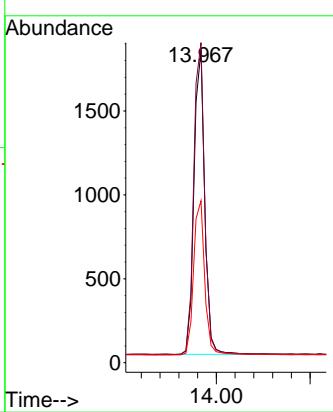
ClientSampleId :

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#14

2,4,6-Tribromophenol

Concen: 0.302 ng

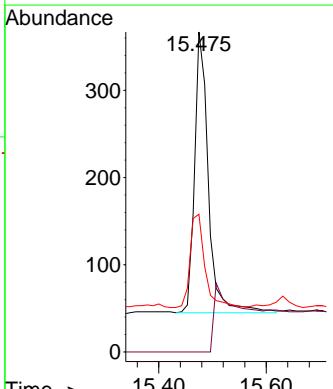
RT: 15.475 min Scan# 1578

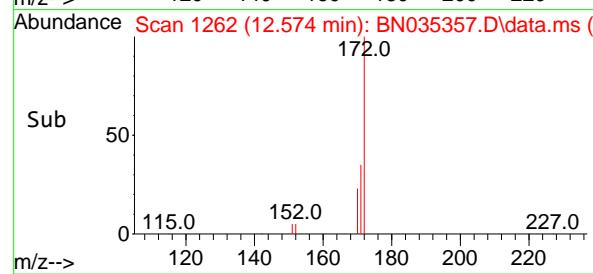
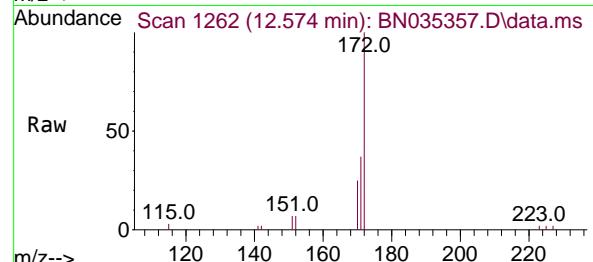
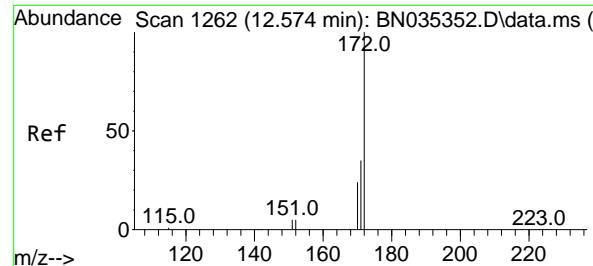
Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Tgt	Ion:330	Resp:	617
Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

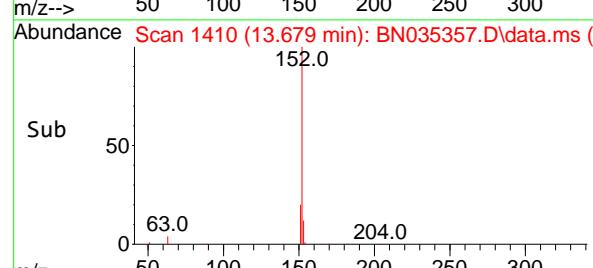
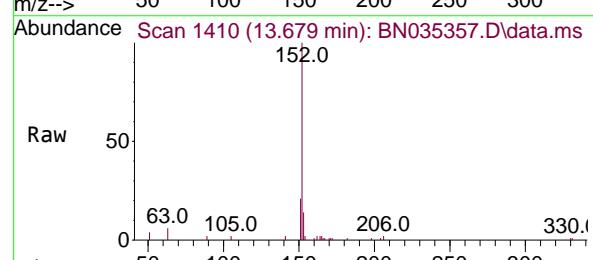
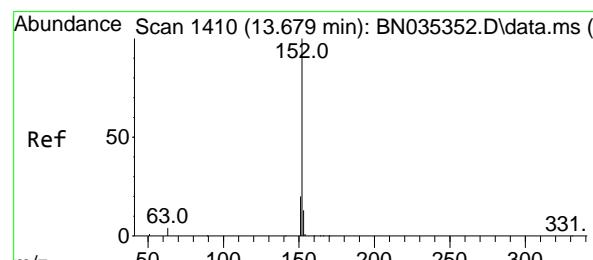
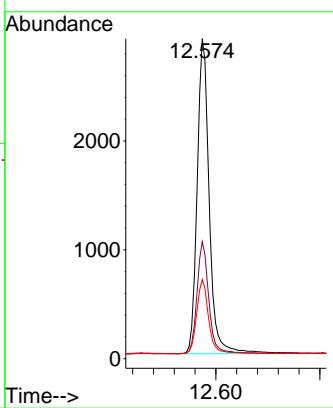




#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

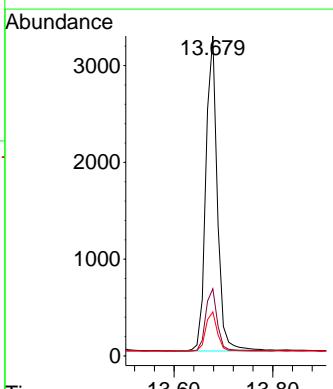
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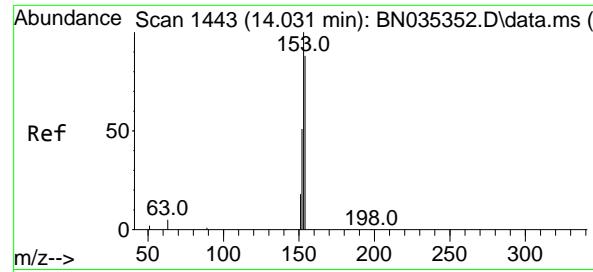
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



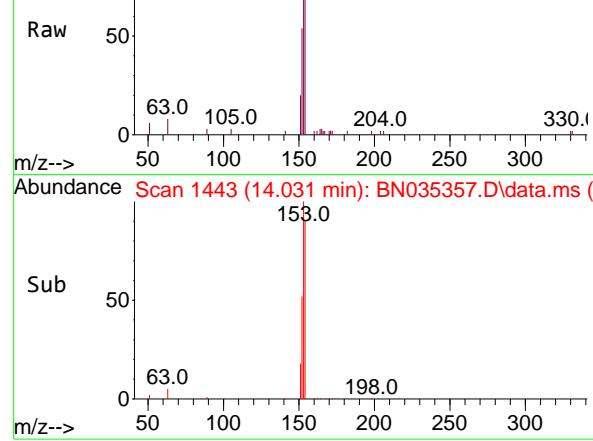
#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

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





Abundance Scan 1443 (14.031 min): BN035357.D\data.ms (-)



#17

Acenaphthene

Concen: 0.426 ng

RT: 14.031 min Scan# 1443

Delta R.T. -0.000 min

Lab File: BN035357.D

Acq: 27 Nov 2024 20:21

Instrument :

BNA_N

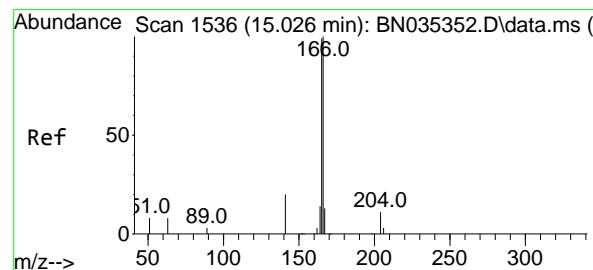
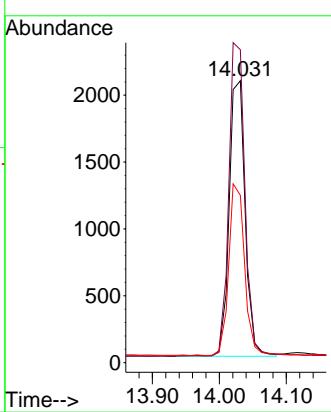
ClientSampleId :

ICVBN112724

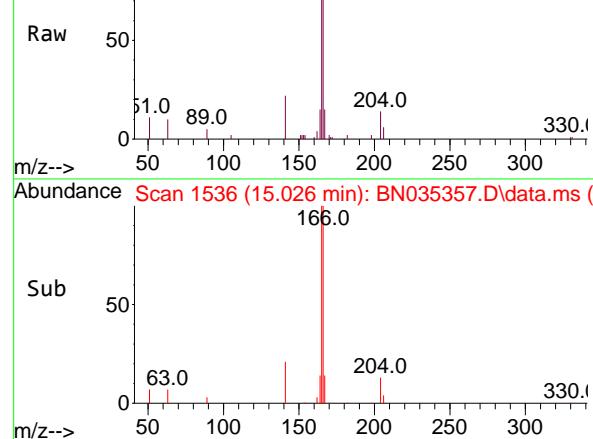
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Abundance Scan 1536 (15.026 min): BN035357.D\data.ms (-)



#18

Fluorene

Concen: 0.420 ng

RT: 15.026 min Scan# 1536

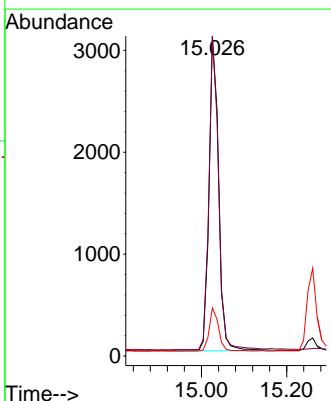
Delta R.T. -0.000 min

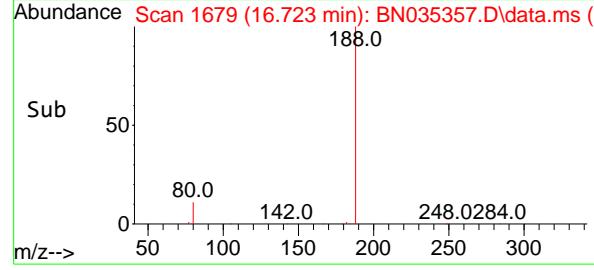
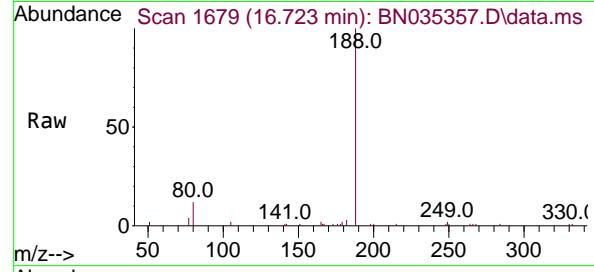
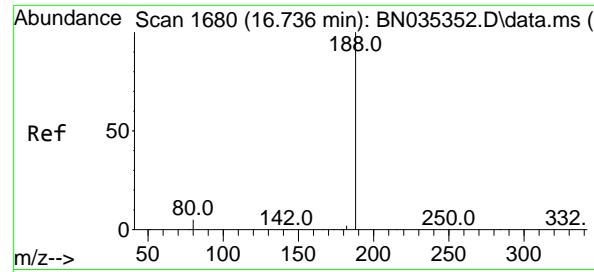
Lab File: BN035357.D

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

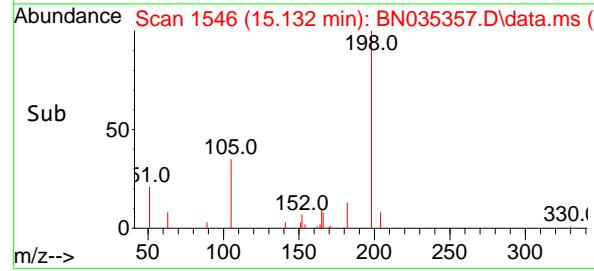
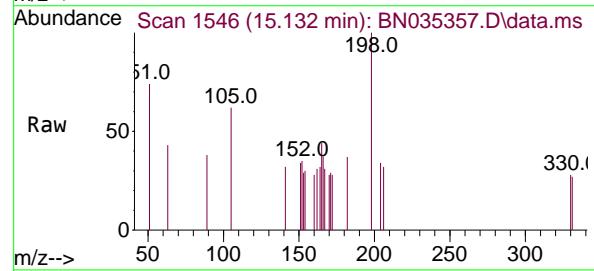
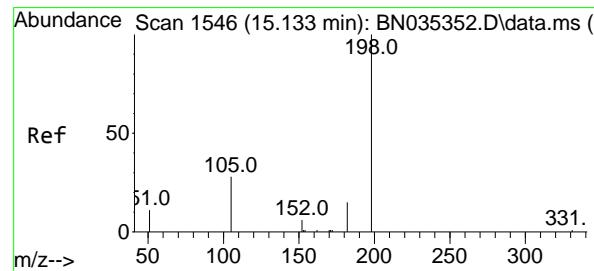
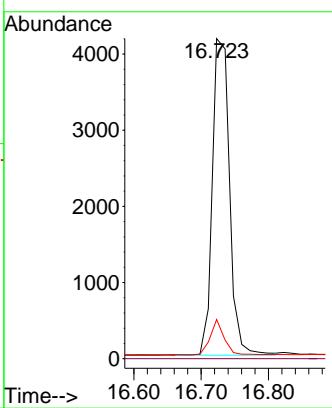
Instrument :

BNA_N

ClientSampleId :

ICVBN112724

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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

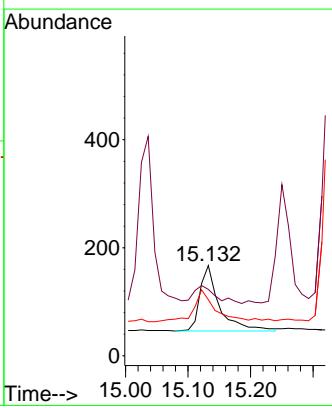
Tgt Ion:198 Resp: 263

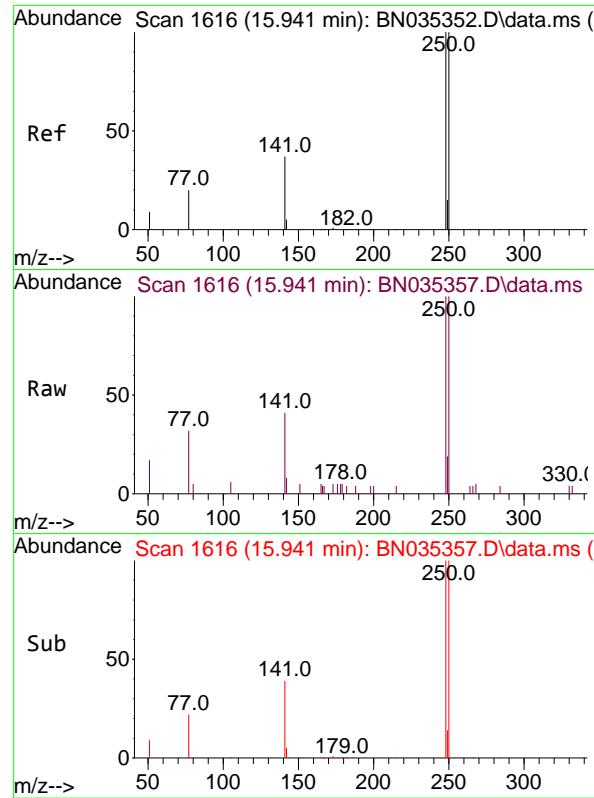
Ion Ratio Lower Upper

198 100

51 73.7 46.5 69.7#

105 62.3 45.3 67.9



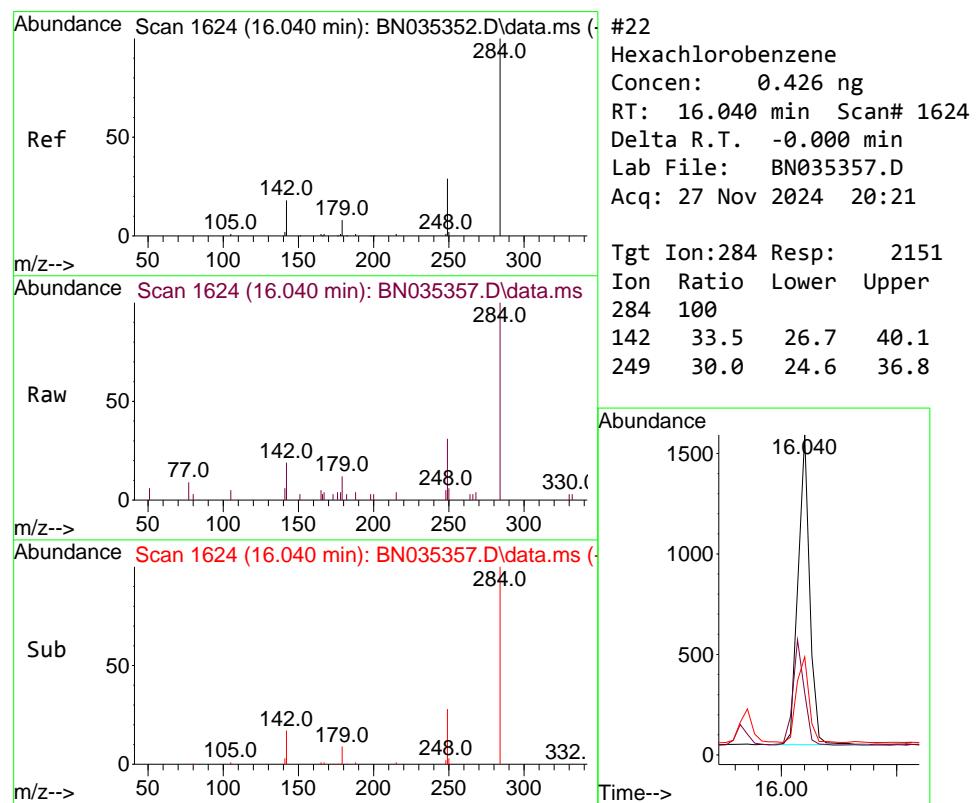
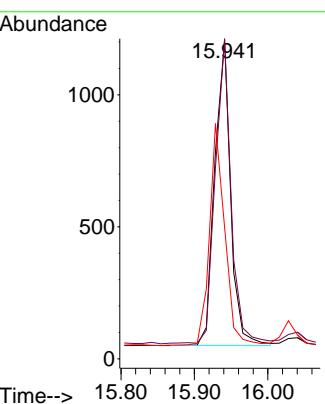


#21
4-Bromophenyl-phenylether
Concen: 0.405 ng
RT: 15.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

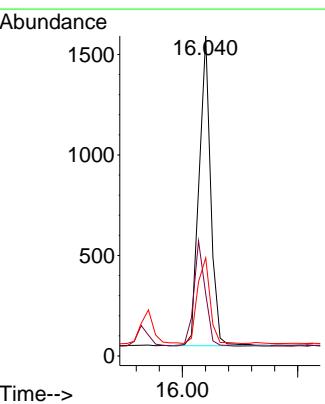
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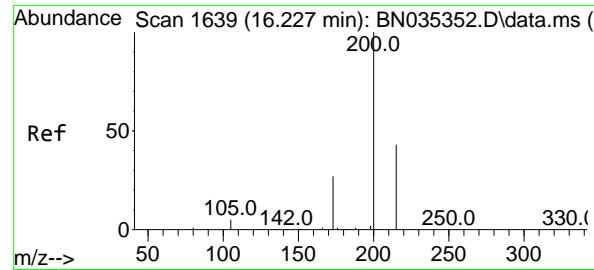
Reviewed By :Yogesh Patel 11/29/2024
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#22
Hexachlorobenzene
Concen: 0.426 ng
RT: 16.040 min Scan# 1624
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

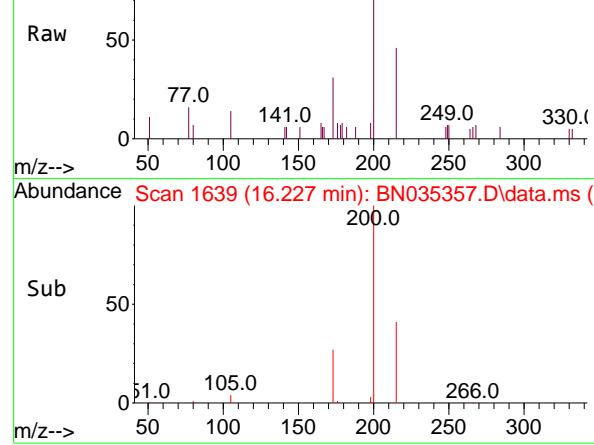
Tgt Ion:284 Resp: 2151
Ion Ratio Lower Upper
284 100
142 33.5 26.7 40.1
249 30.0 24.6 36.8





Ref 50
0

Scan 1639 (16.227 min): BN035357.D\data.ms



Raw 50
0

Sub 50
0

m/z-->

#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: 122

Ion Ratio Lower Upper

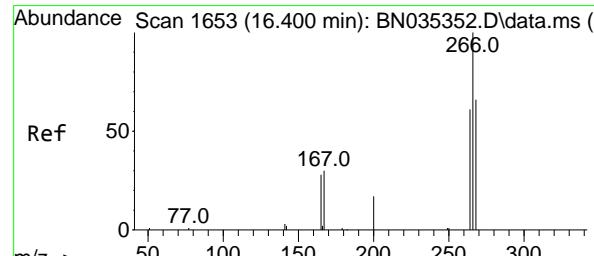
200 100

173 30.9 24.1 36.1

215 46.1 36.9 55.3

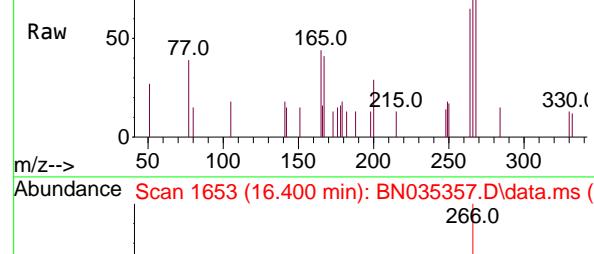
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Ref 50
0

Scan 1653 (16.400 min): BN035357.D\data.ms



Raw 50
0

Scan 1653 (16.400 min): BN035357.D\data.ms (-)

m/z-->

#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

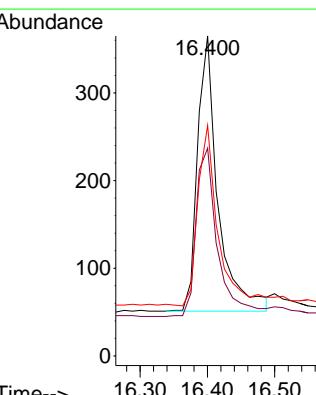
Tgt Ion:266 Resp: 662

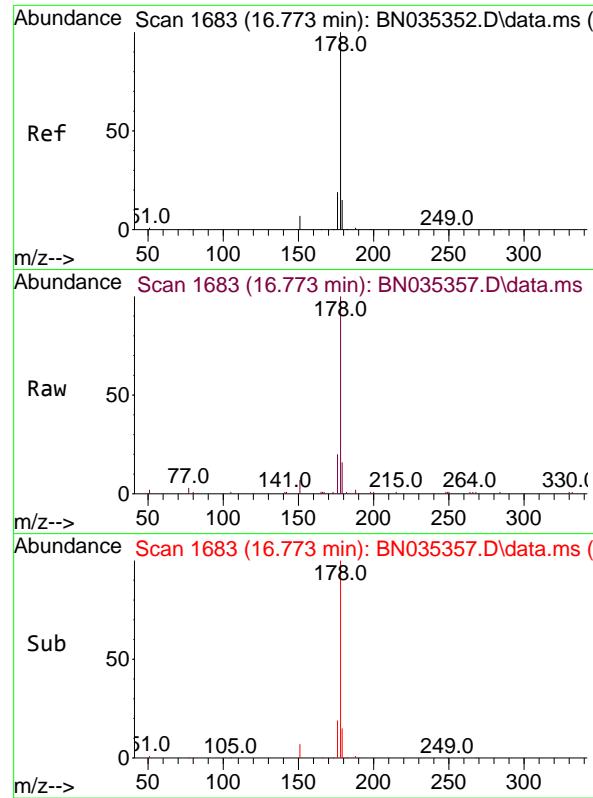
Ion Ratio Lower Upper

266 100

264 65.0 42.3 63.5#

268 66.8 43.3 64.9#



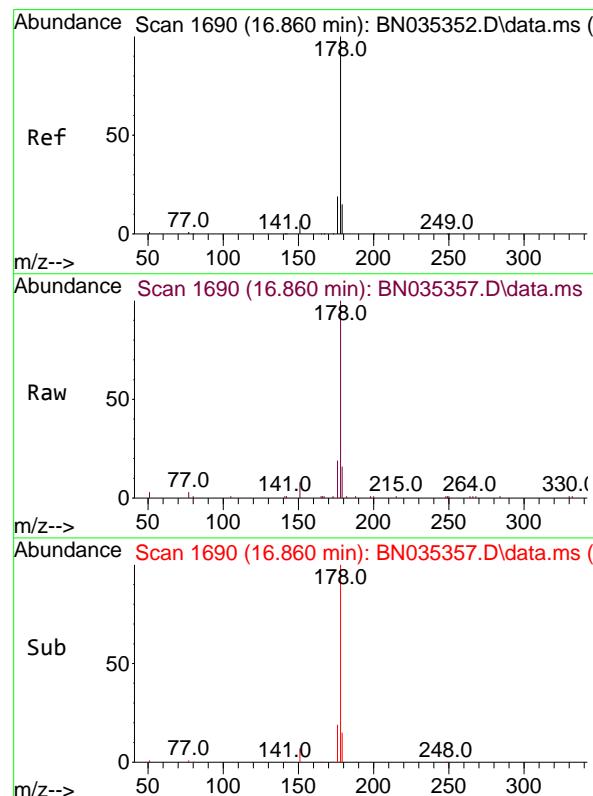
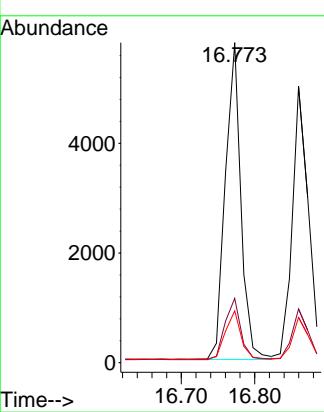


#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument : BNA_N
ClientSampleId : ICBVN112724

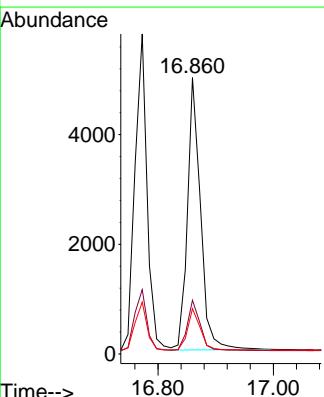
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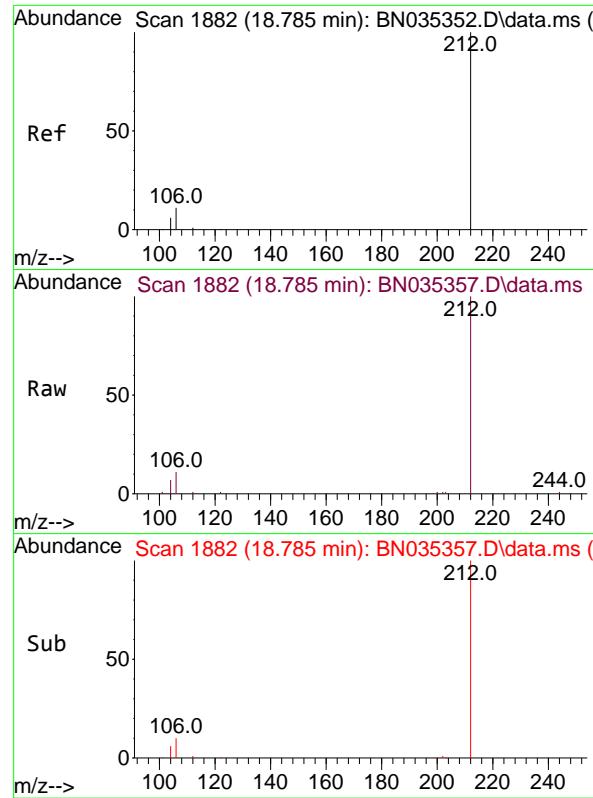
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



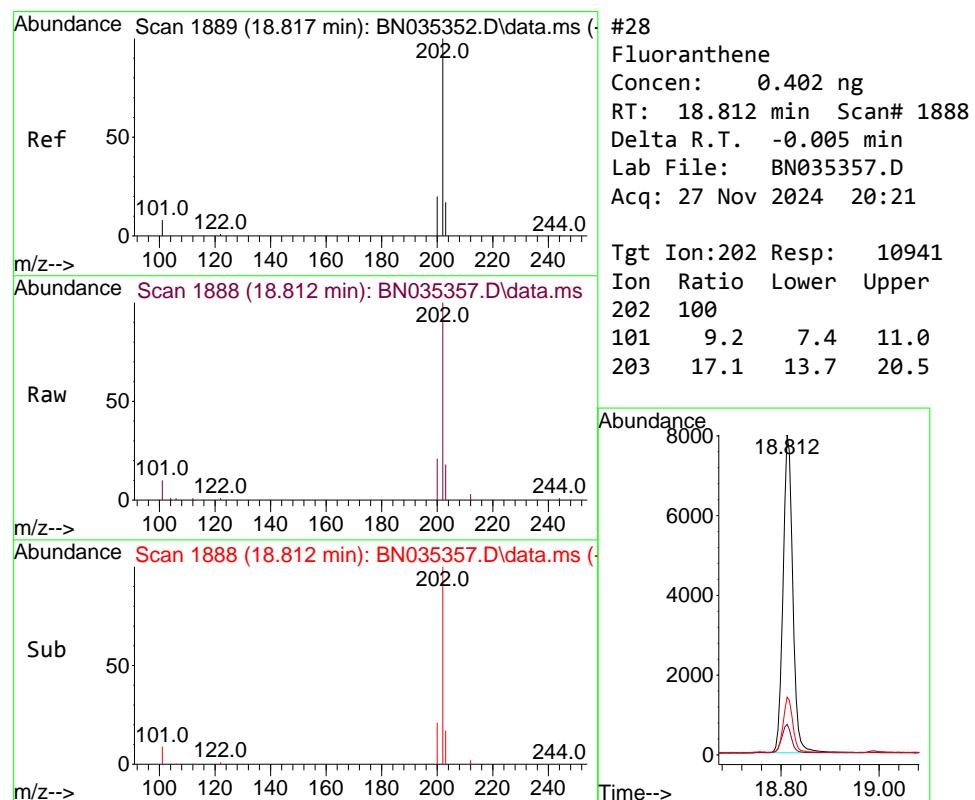
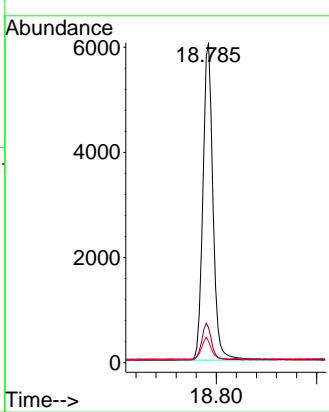


#27
 Fluoranthene-d10
 Concen: 0.404 ng
 RT: 18.785 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Instrument : BNA_N
 ClientSampleId : ICBN112724

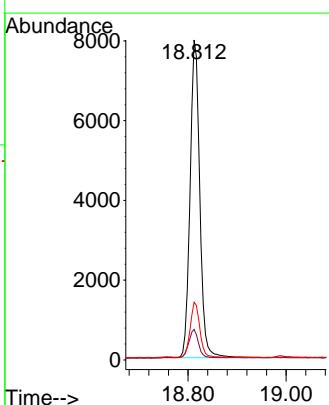
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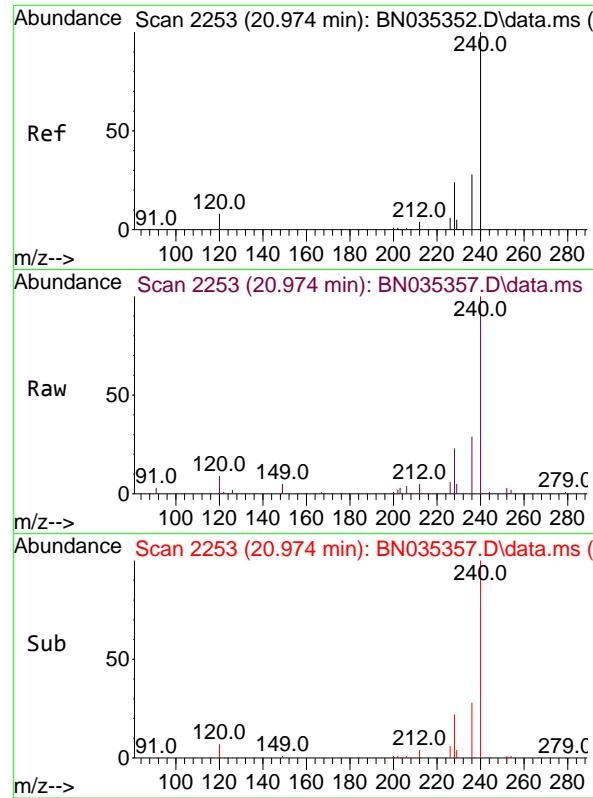
Reviewed By :Yogesh Patel 11/29/2024
 Supervised By :mohammad ahmed 12/03/2024



#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



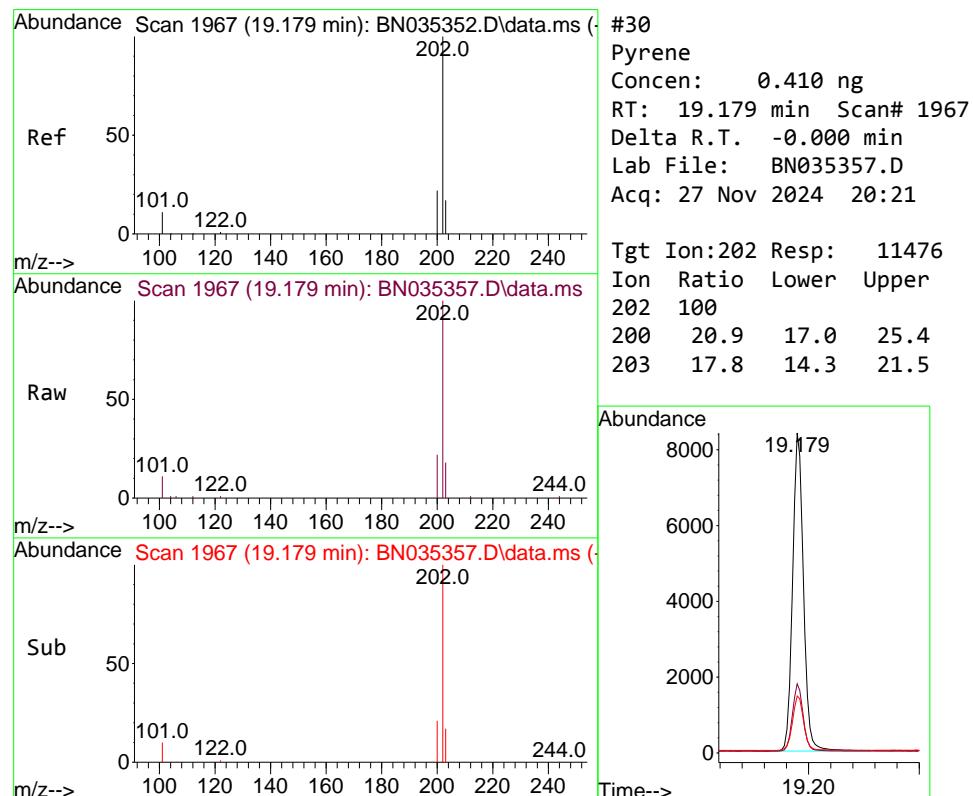
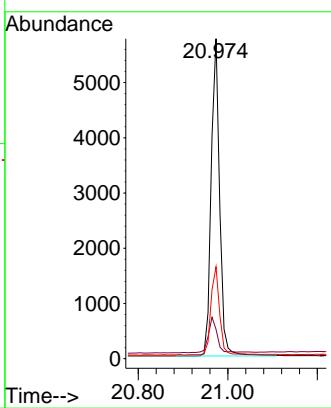


#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument : BNA_N
ClientSampleId : ICVBN112724

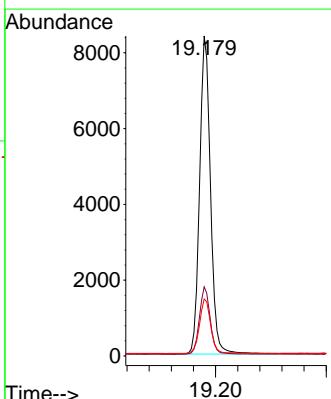
Manual Integrations
APPROVED

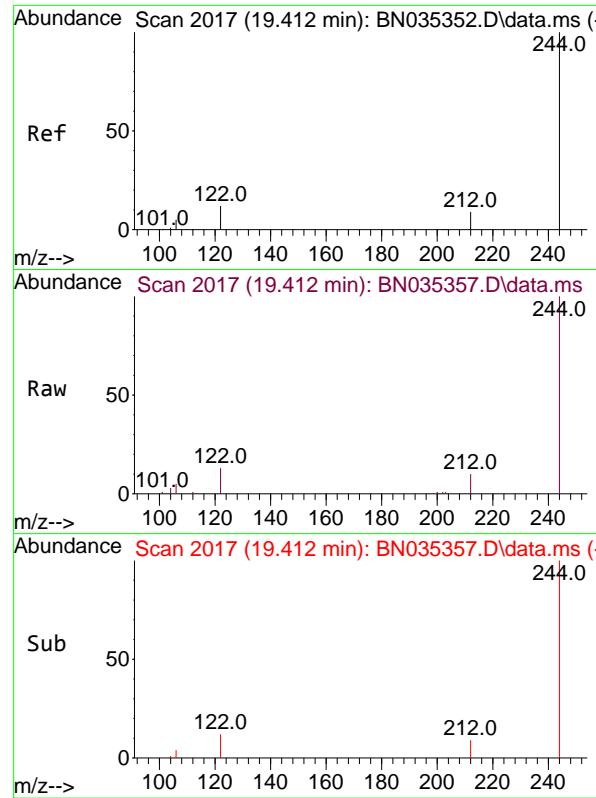
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



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

Tgt Ion:202 Resp: 11476
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.8 14.3 21.5



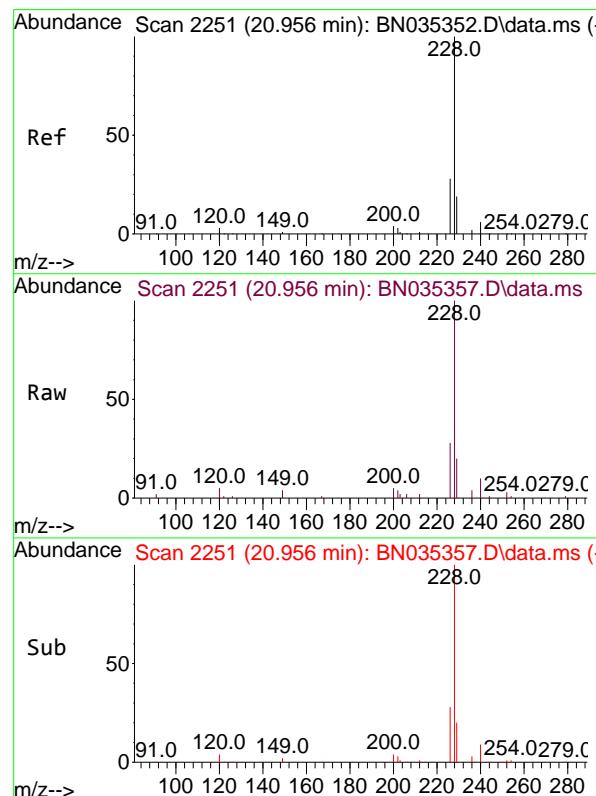
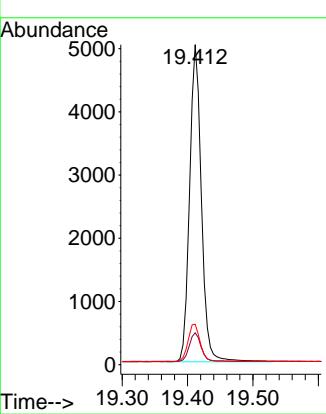


#31
Terphenyl-d14
Concen: 0.420 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument : BNA_N
ClientSampleId : ICBN112724

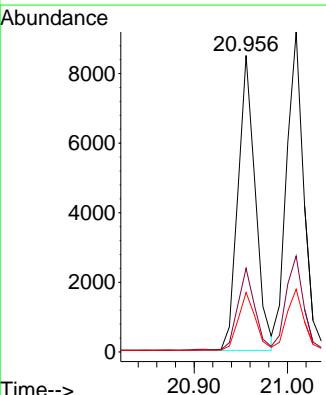
Manual Integrations
APPROVED

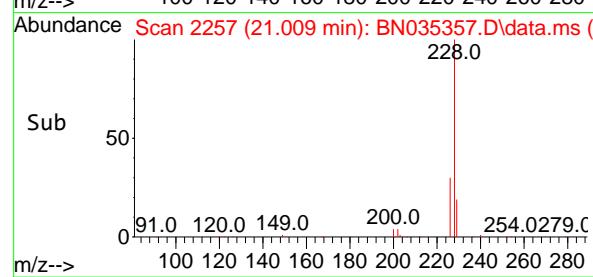
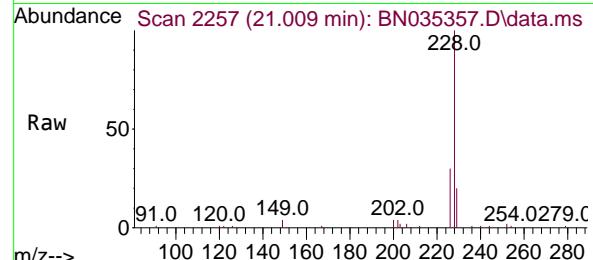
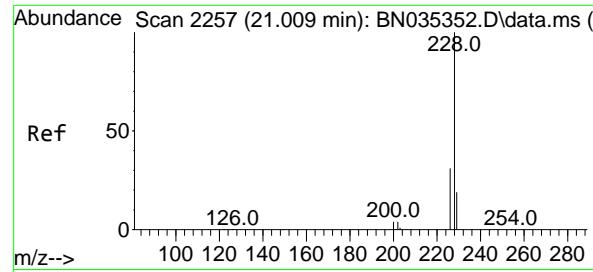
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

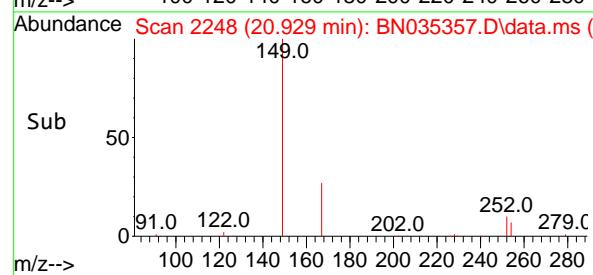
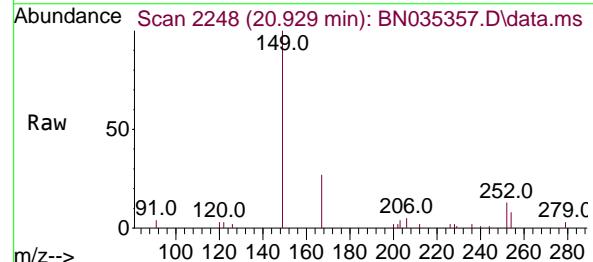
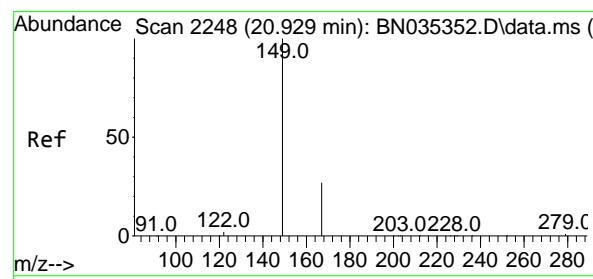
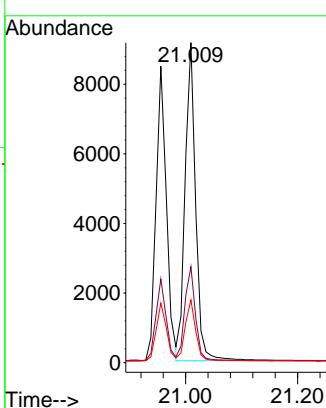
Instrument :

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

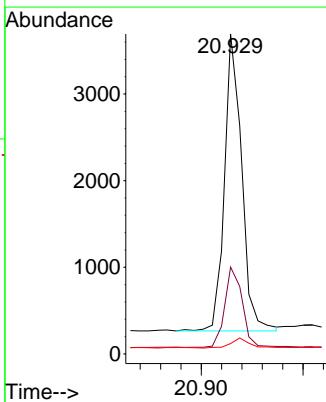
Concen: 0.384 ng

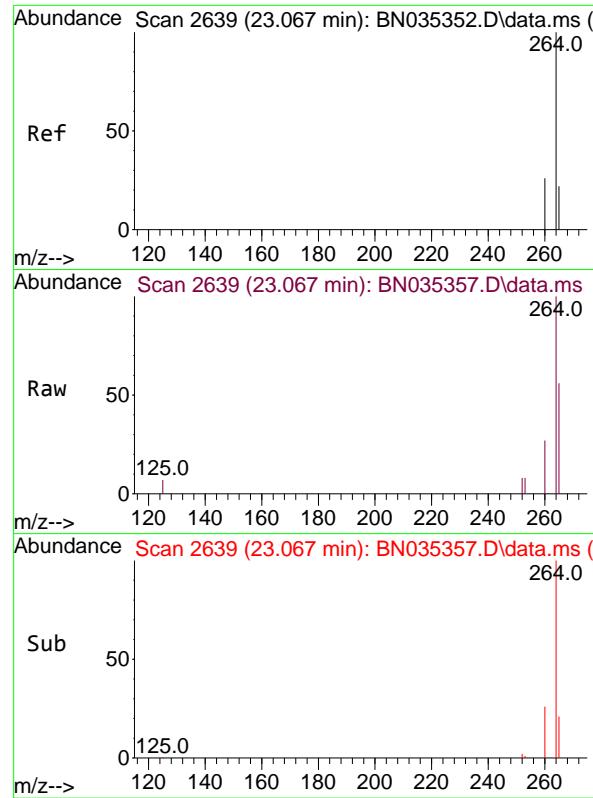
RT: 20.929 min Scan# 2248

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


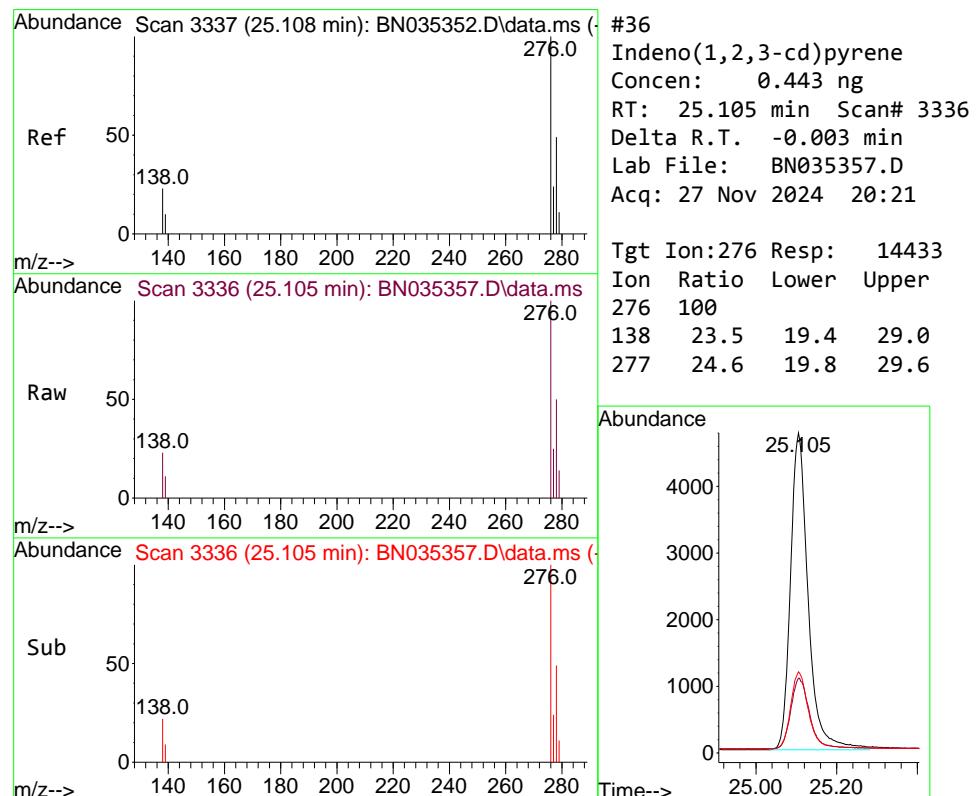
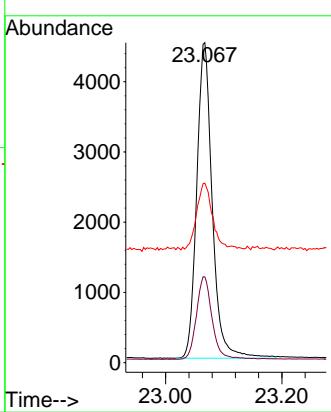


#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument : BNA_N
ClientSampleId : ICVBN112724

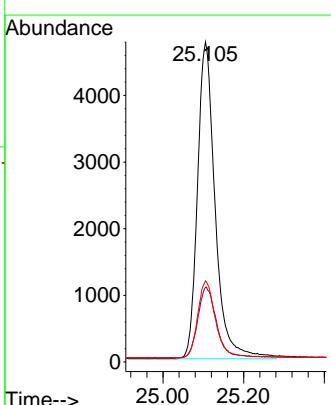
Manual Integrations
APPROVED

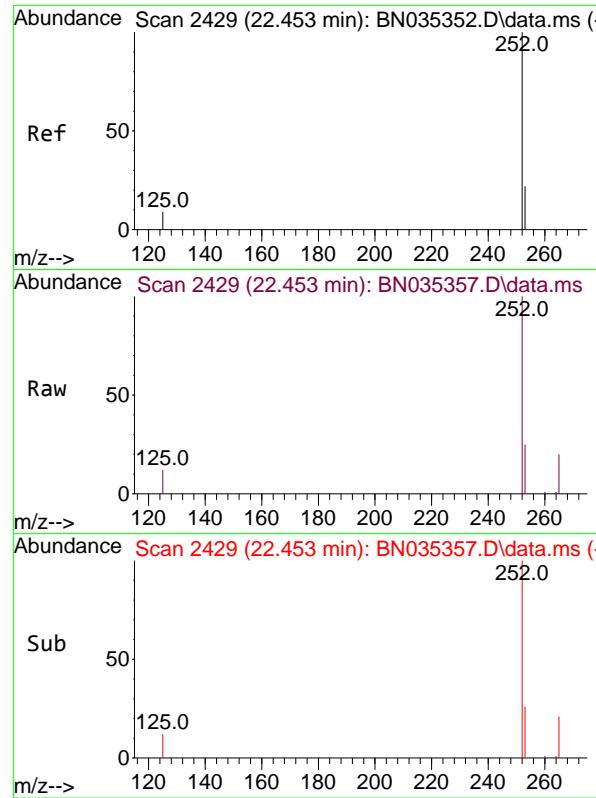
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



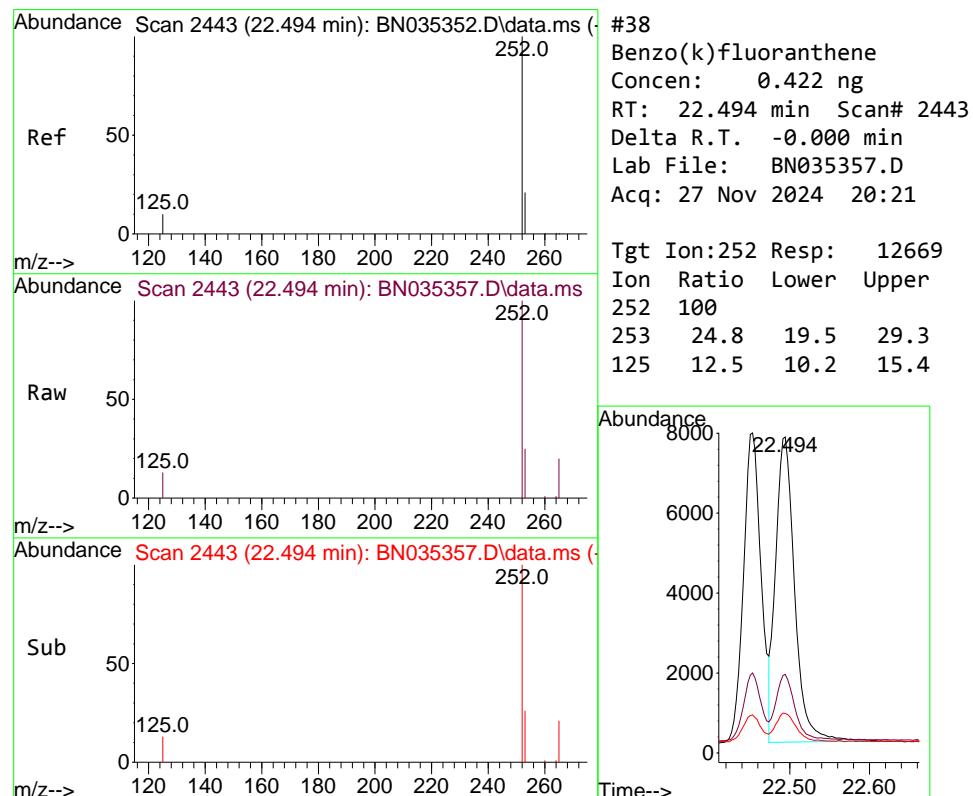
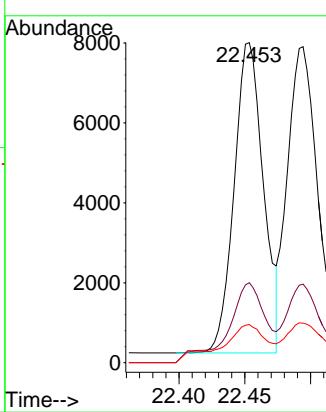


#37
Benzo(b)fluoranthene
Concen: 0.426 ng
RT: 22.453 min Scan# 2429
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

Instrument :
BNA_N
ClientSampleId :
ICVBN112724

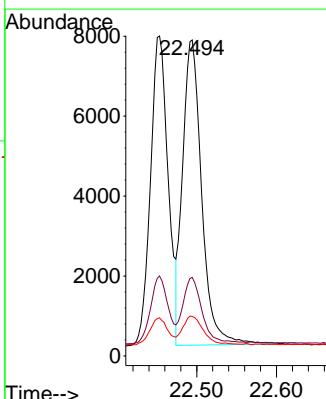
Manual Integrations APPROVED

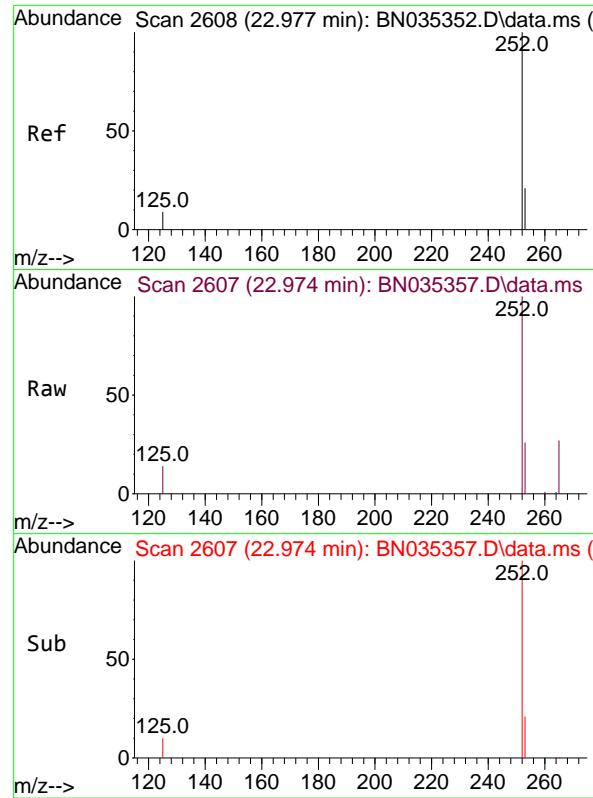
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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



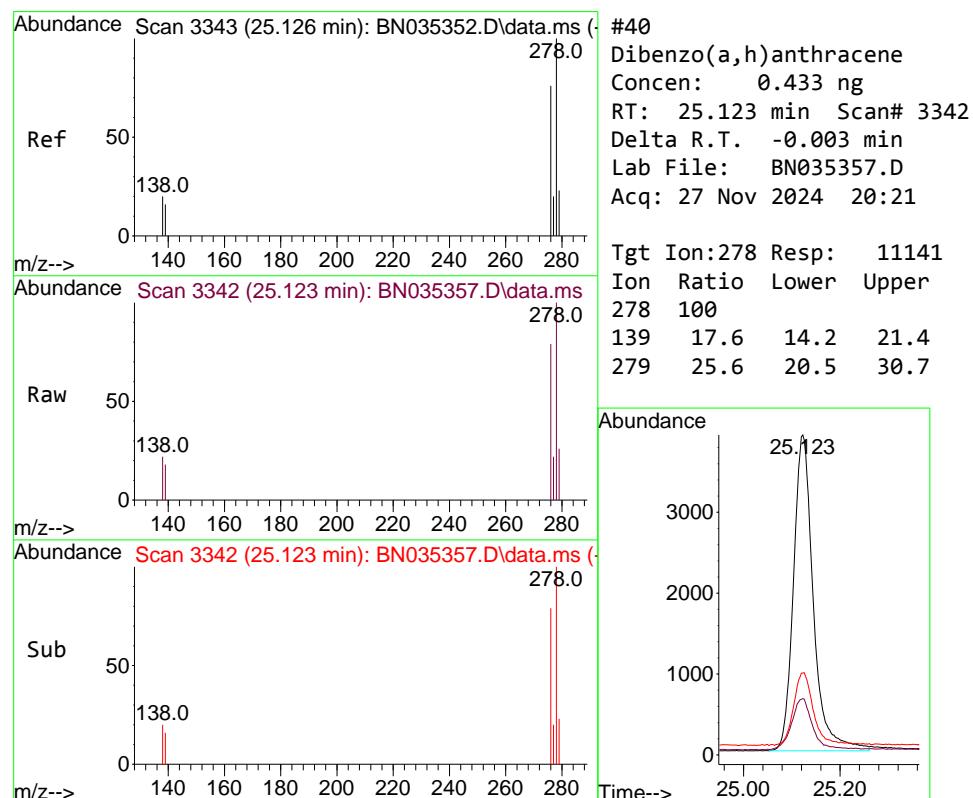
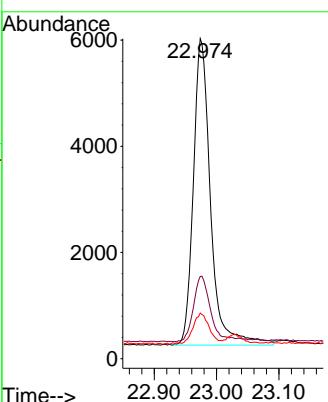


#39
Benzo(a)pyrene
Concen: 0.442 ng
RT: 22.974 min Scan# 2
Instrument : BNA_N
Delta R.T. -0.003 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21
ClientSampleId : ICBN112724

Tgt Ion:252 Resp: 1109.2
Ion Ratio Lower Upper
252 100
253 25.7 20.2 30.4
125 14.3 10.9 16.3

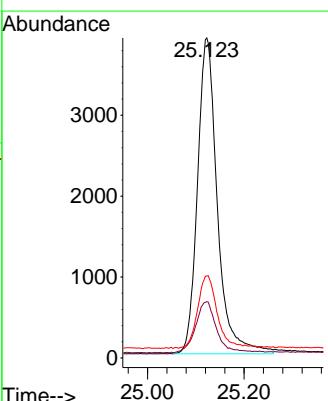
Manual Integrations APPROVED

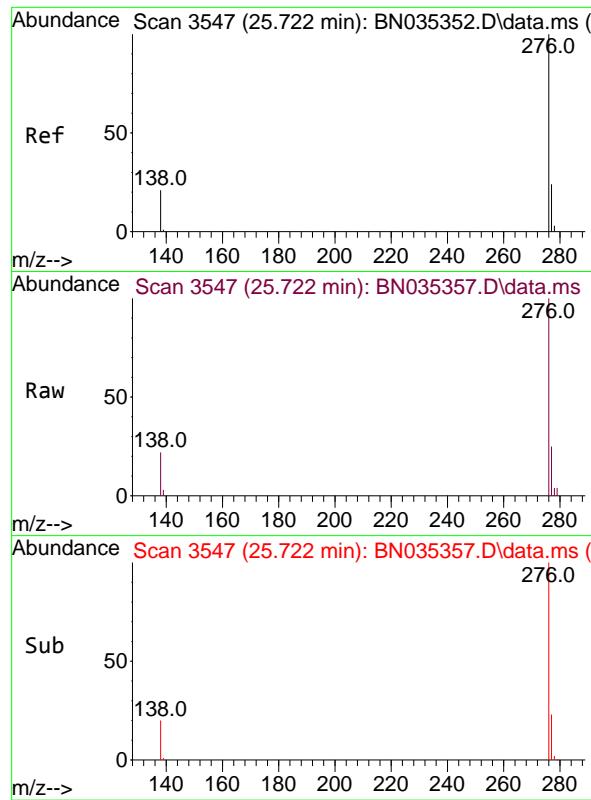
Reviewed By :Yogesh Patel 11/29/2024
Supervised By :mohammad ahmed 12/03/2024



#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

Instrument :

BNA_N

ClientSampleId :

ICVBN112724

Tgt Ion:276 Resp: 10870

Ion Ratio Lower Upper

276 100

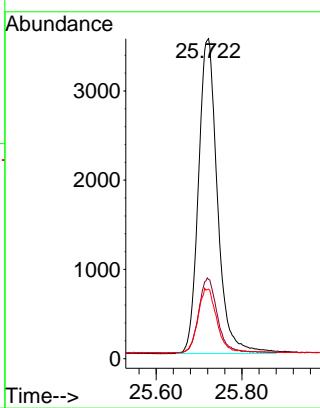
277 24.7 19.9 29.9

138 21.7 17.8 26.8

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 11/29/2024

Supervised By :mohammad ahmed 12/03/2024



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

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>CHEMTECH</u>		Contract:	<u>TETR06</u>	
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5065</u>	SAS No.:	<u>P5065</u>
Instrument ID:	<u>BNA_N</u>		Calibration Date/Time: <u>12/03/2024</u> <u>16:35</u>		
Lab File ID:	<u>BN035406.D</u>		Init. Calib. Date(s): <u>11/27/2024</u> <u>11/27/2024</u>		
EPA Sample No.:	<u>SSTDCCC0.4</u>		Init. Calib. Time(s): <u>15:34</u> <u>19:09</u>		
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u>	(mm)	

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.600		-4.2	20.0
Fluoranthene-d10	1.134	1.017		-10.3	20.0
2-Fluorophenol	1.001	0.897		-10.4	20.0
Phenol-d6	1.204	1.101		-8.6	20.0
Nitrobenzene-d5	0.244	0.236		-3.3	20.0
2-Fluorobiphenyl	1.512	1.538		1.7	20.0
2,4,6-Tribromophenol	0.284	0.253		-10.9	20.0
Terphenyl-d14	0.789	0.767		-2.8	20.0
1,4-Dioxane	0.382	0.365		-4.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 17:45:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

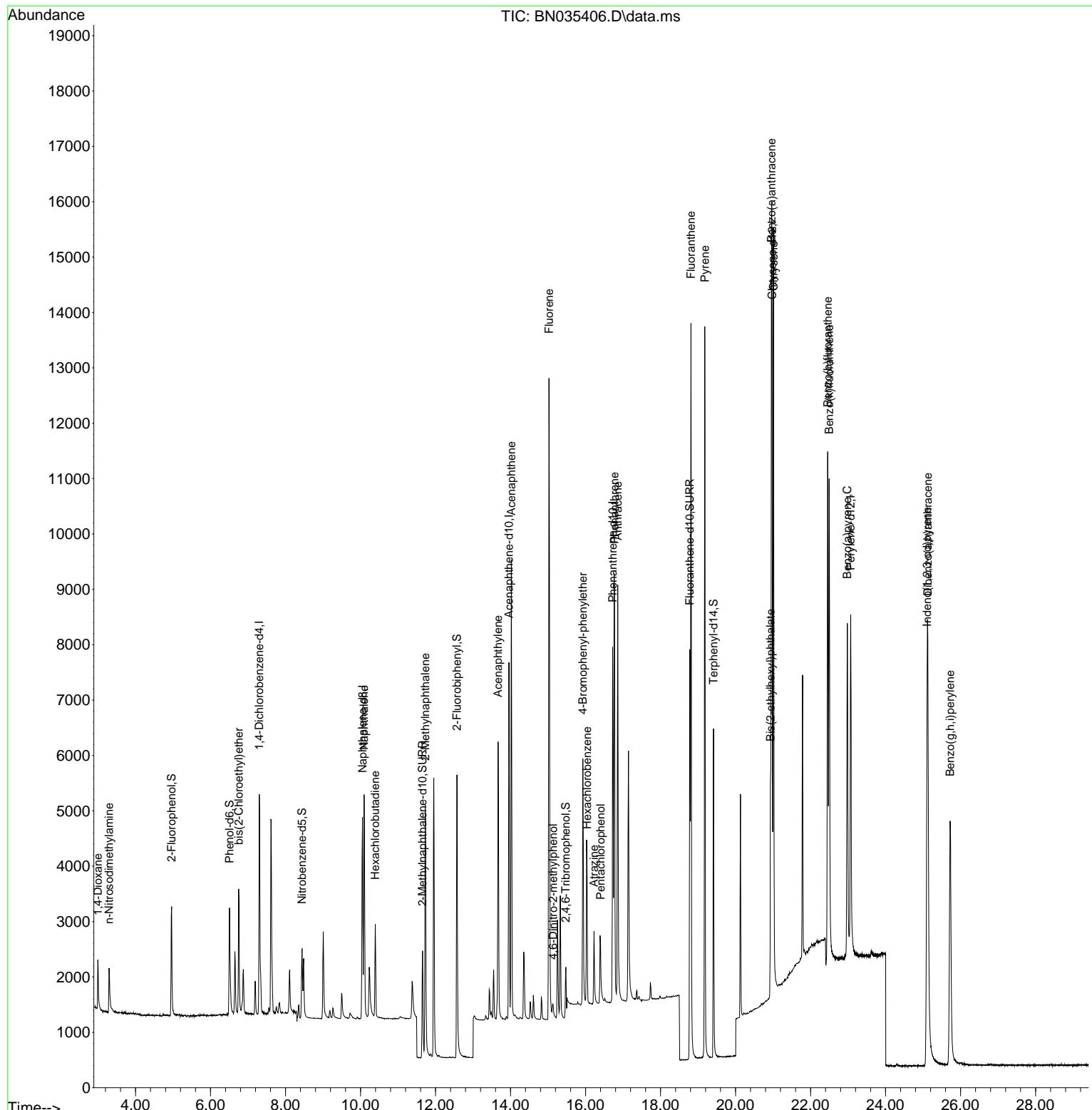
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	2015	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5135	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3625	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8862	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8251	0.400	ng	0.00
35) Perylene-d12	23.070	264	7832	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1808	0.359	ng	0.00
5) Phenol-d6	6.506	99	2219	0.366	ng	0.00
8) Nitrobenzene-d5	8.440	82	1212m	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	3083	0.384	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	916	0.356	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5574	0.407	ng	0.00
27) Fluoranthene-d10	18.780	212	9013	0.359	ng	0.00
31) Terphenyl-d14	19.412	244	6327	0.389	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	735	0.382	ng	98
3) n-Nitrosodimethylamine	3.292	42	603	0.376	ng	# 99
6) bis(2-Chloroethyl)ether	6.752	93	1920	0.377	ng	100
9) Naphthalene	10.095	128	5329	0.393	ng	99
10) Hexachlorobutadiene	10.394	225	1309	0.419	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3781	0.390	ng	99
16) Acenaphthylene	13.668	152	5887	0.387	ng	100
17) Acenaphthene	14.021	154	3907	0.387	ng	98
18) Fluorene	15.026	166	5593	0.387	ng	99
20) 4,6-Dinitro-2-methylph...	15.133	198	291	0.334	ng	# 83
21) 4-Bromophenyl-phenylether	15.929	248	2060	0.397	ng	# 75
22) Hexachlorobenzene	16.040	284	2548	0.419	ng	98
23) Atrazine	16.227	200	1209	0.328	ng	98
24) Pentachlorophenol	16.400	266	848	0.320	ng	# 84
25) Phenanthrene	16.773	178	9564	0.393	ng	100
26) Anthracene	16.860	178	8243	0.374	ng	100
28) Fluoranthene	18.812	202	12056	0.367	ng	100
30) Pyrene	19.179	202	12183	0.400	ng	100
32) Benzo(a)anthracene	20.956	228	10317	0.357	ng	99
33) Chrysene	21.009	228	12005	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	20.929	149	3769	0.331	ng	99
36) Indeno(1,2,3-cd)pyrene	25.108	276	11257	0.368	ng	98
37) Benzo(b)fluoranthene	22.456	252	11172	0.390	ng	99
38) Benzo(k)fluoranthene	22.497	252	11663	0.414	ng	99
39) Benzo(a)pyrene	22.980	252	9142	0.387	ng	98
40) Dibenzo(a,h)anthracene	25.126	278	8667	0.359	ng	99
41) Benzo(g,h,i)perylene	25.722	276	9676	0.383	ng	100

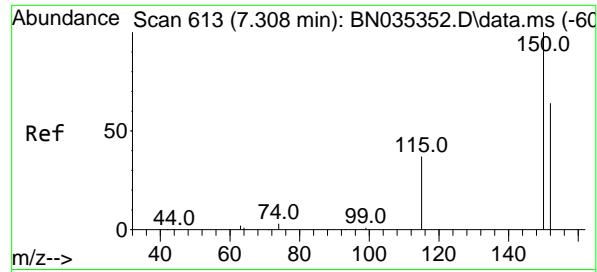
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

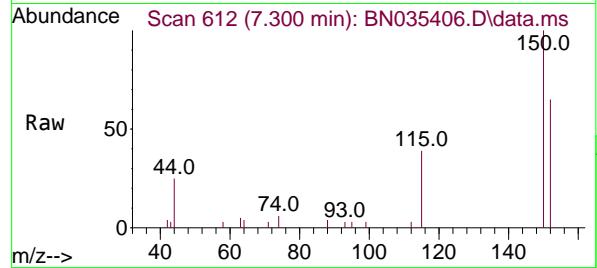
Quant Time: Dec 03 17:45:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration



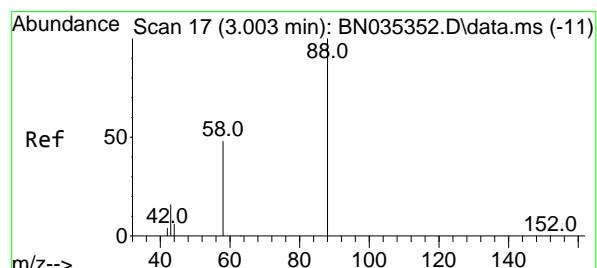
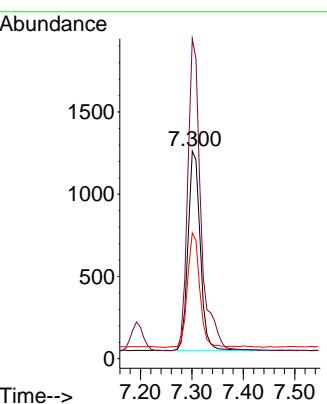
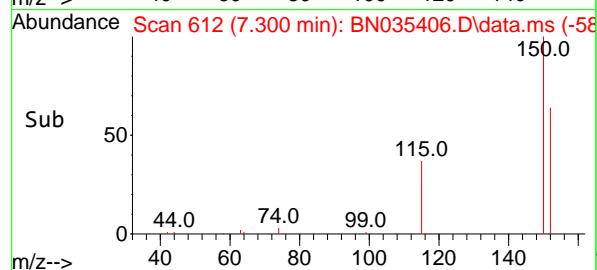


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

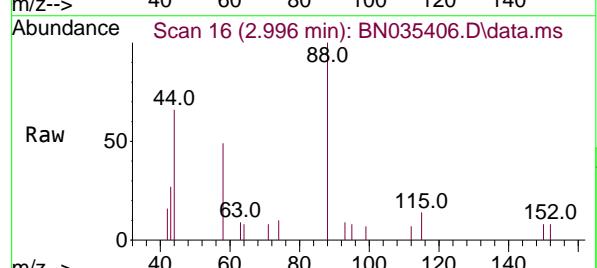
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



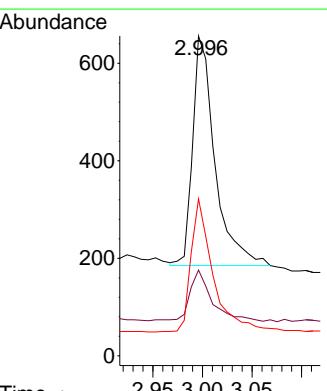
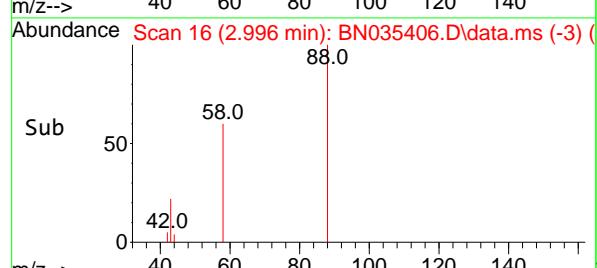
Tgt Ion:152 Resp: 2015
Ion Ratio Lower Upper
152 100
150 154.1 124.0 186.0
115 60.6 49.6 74.4

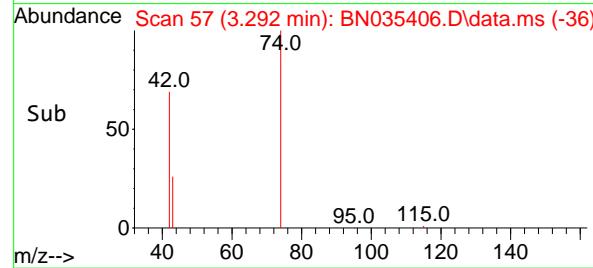
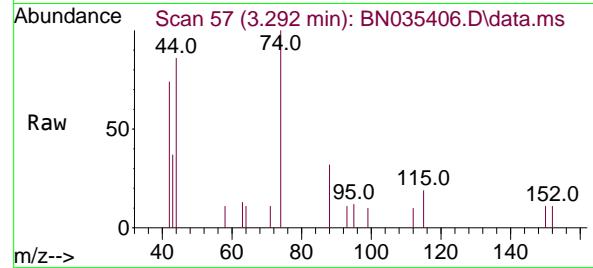
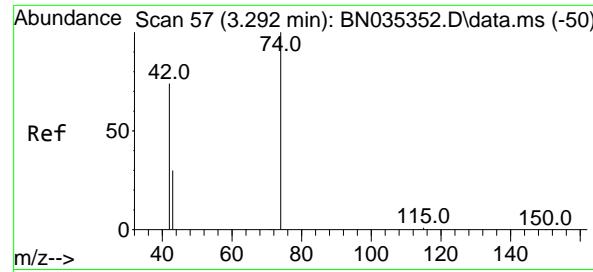


#2
1,4-Dioxane
Concen: 0.382 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



Tgt Ion: 88 Resp: 735
Ion Ratio Lower Upper
88 100
43 22.2 17.2 25.8
58 57.3 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.292 min Scan# 5

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument:

BNA_N

ClientSampleId :

SSTDCCC0.4

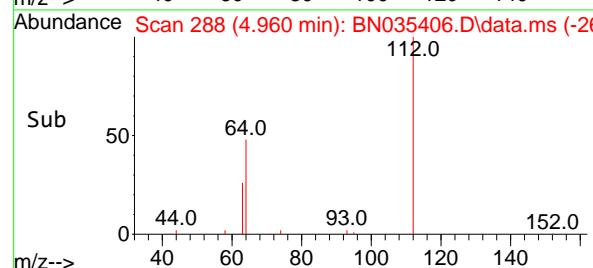
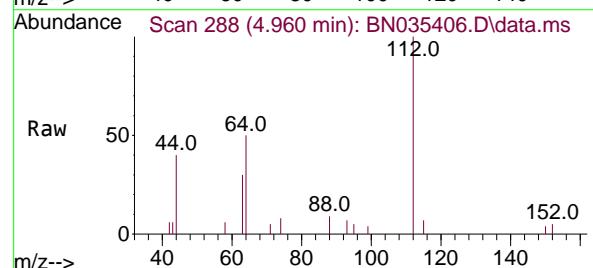
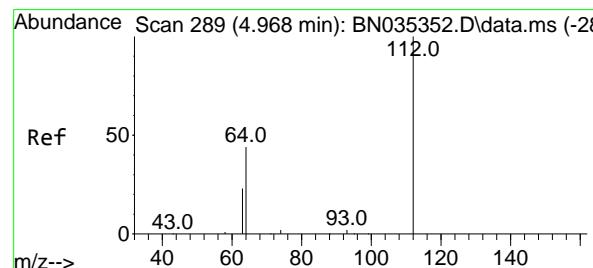
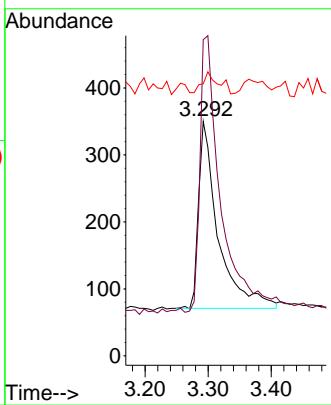
Tgt Ion: 42 Resp: 603

Ion Ratio Lower Upper

42 100

74 156.4 124.9 187.3

44 9.0 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.359 ng

RT: 4.960 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

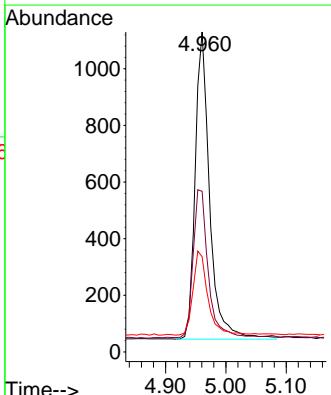
Tgt Ion: 112 Resp: 1808

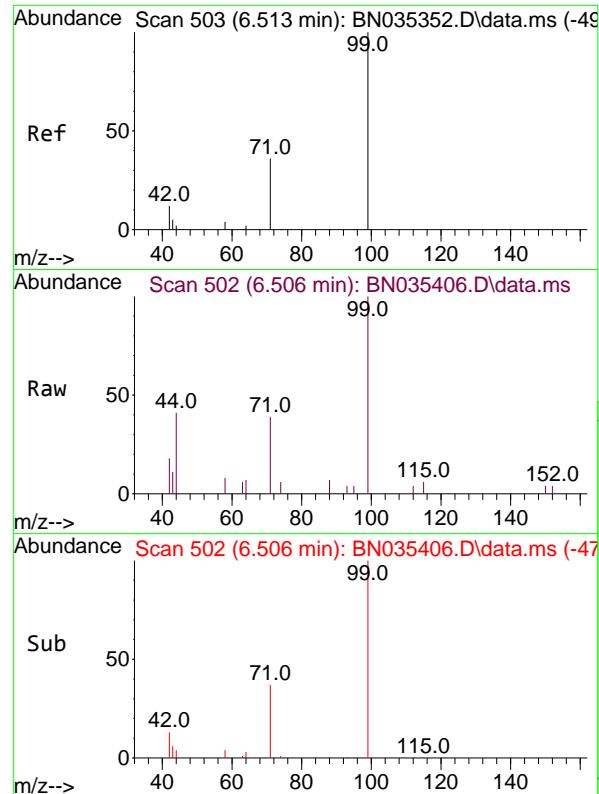
Ion Ratio Lower Upper

112 100

64 50.3 39.8 59.8

63 28.2 21.0 31.6

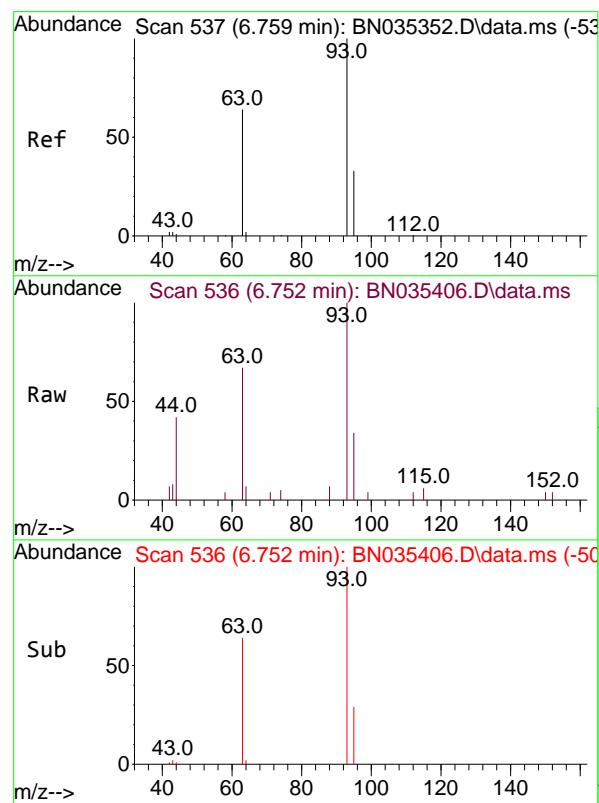
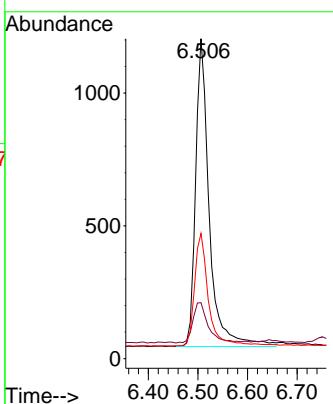




#5
 Phenol-d6
 Concen: 0.366 ng
 RT: 6.506 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

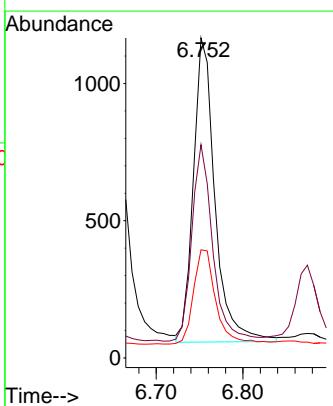
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

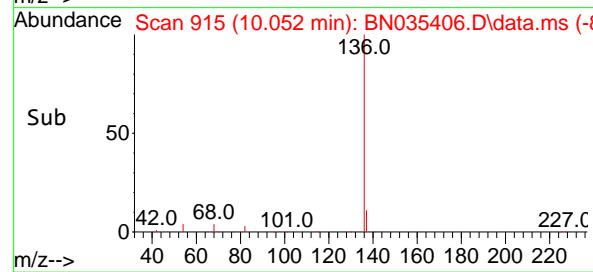
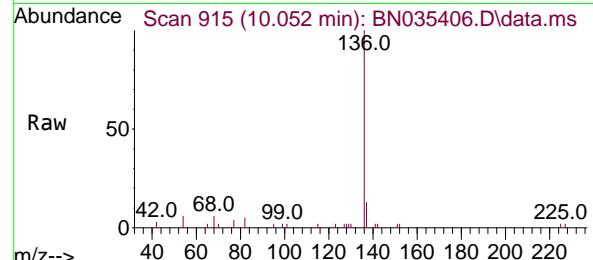
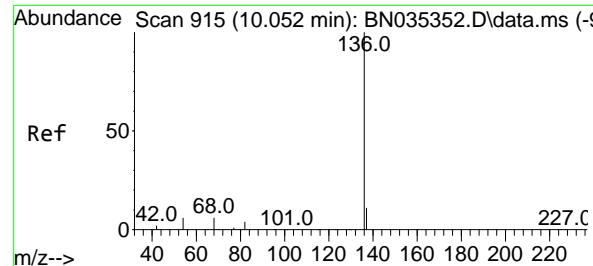
Tgt Ion: 99 Resp: 2219
 Ion Ratio Lower Upper
 99 100
 42 14.9 11.4 17.2
 71 37.3 29.3 43.9



#6
 bis(2-Chloroethyl)ether
 Concen: 0.377 ng
 RT: 6.752 min Scan# 536
 Delta R.T. -0.007 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion: 93 Resp: 1920
 Ion Ratio Lower Upper
 93 100
 63 62.6 50.4 75.6
 95 32.1 25.7 38.5



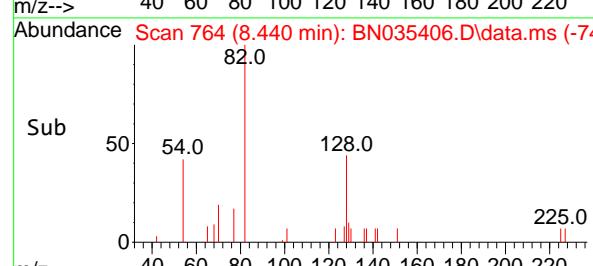
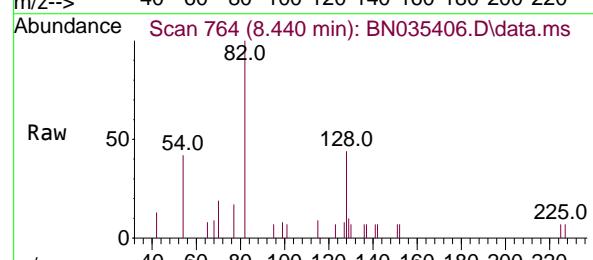
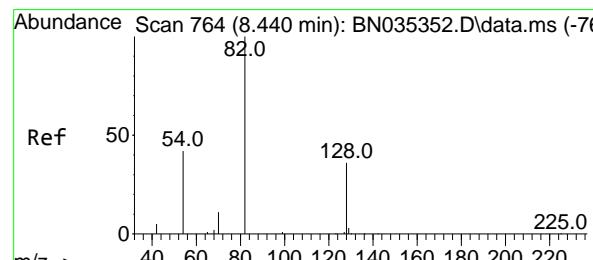
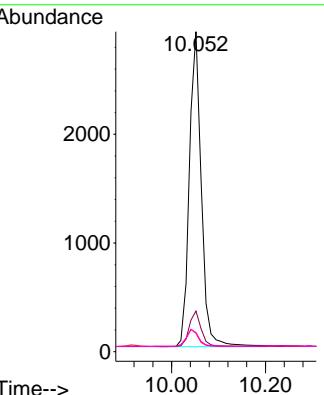


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 5135

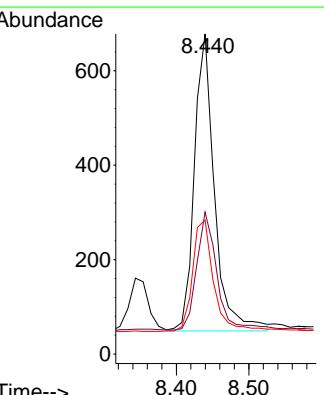
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.2	15.2
54	5.8	6.1	9.1#
68	6.0	6.4	9.6#

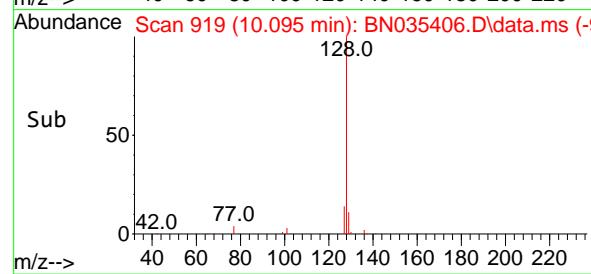
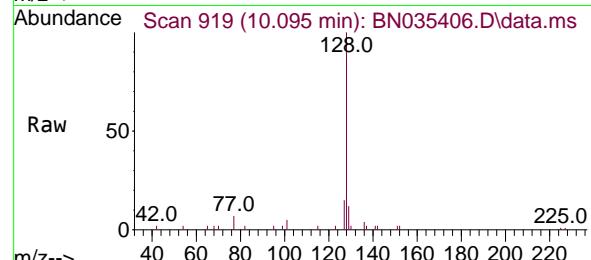
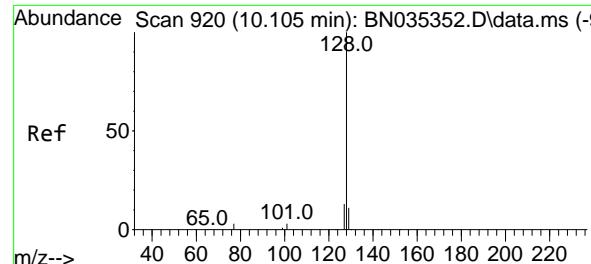


#8
Nitrobenzene-d5
Concen: 0.386 ng m
RT: 8.440 min Scan# 764
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion: 82 Resp: 1212

Ion	Ratio	Lower	Upper
82	100		
128	44.4	33.4	50.0
54	41.9	36.7	55.1





#9

Naphthalene

Concen: 0.393 ng

RT: 10.095 min Scan# 9

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

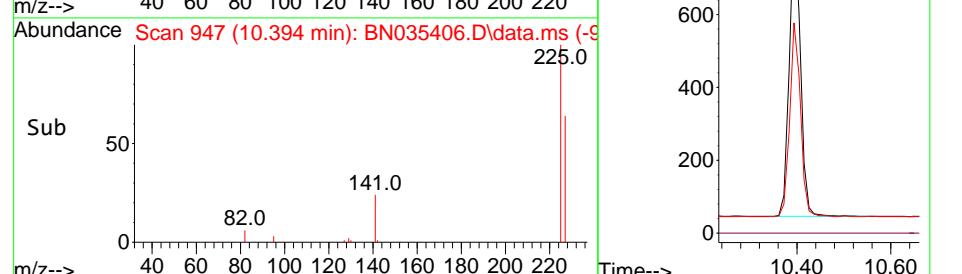
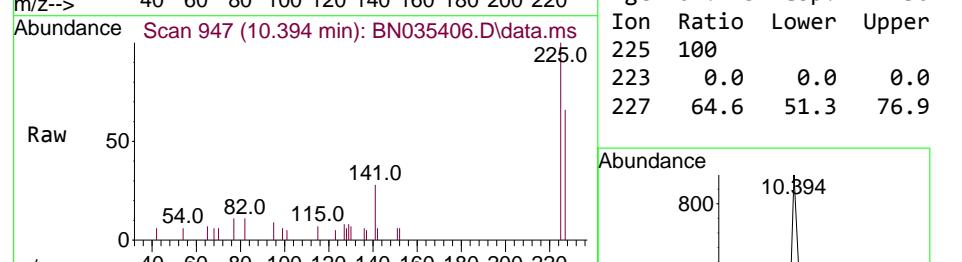
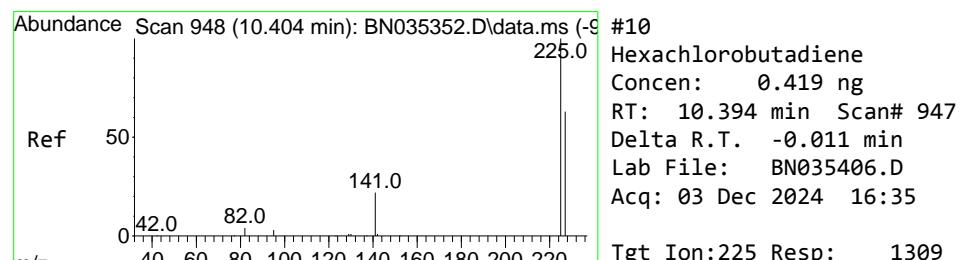
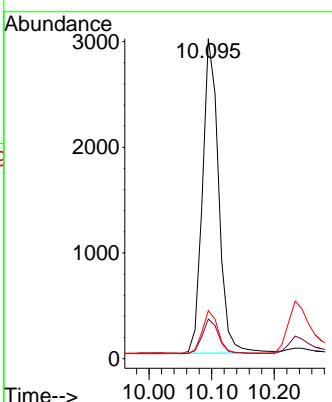
Tgt Ion:128 Resp: 5329

Ion Ratio Lower Upper

128 100

129 12.4 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.419 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

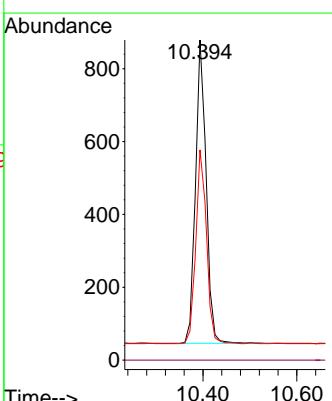
Tgt Ion:225 Resp: 1309

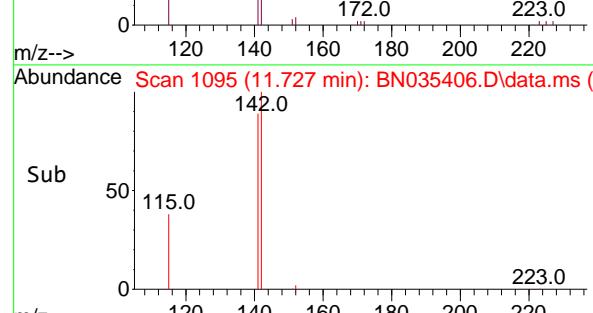
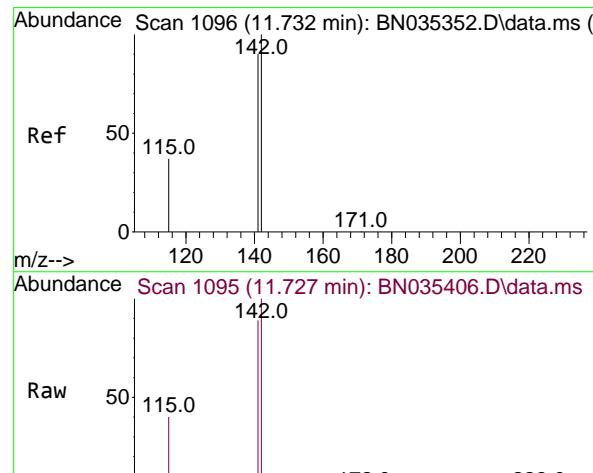
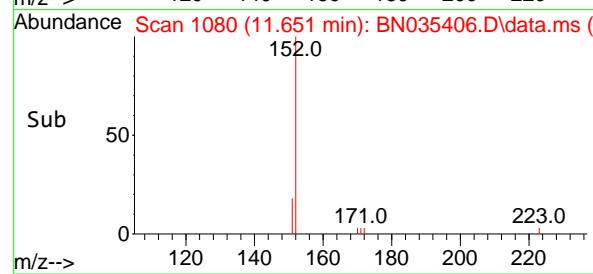
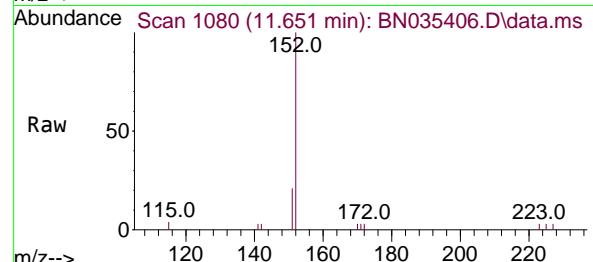
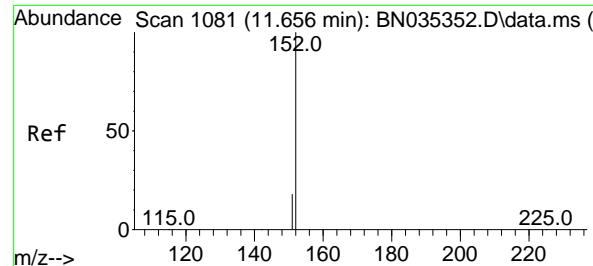
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.6 51.3 76.9





#11

2-Methylnaphthalene-d10

Concen: 0.384 ng

RT: 11.651 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

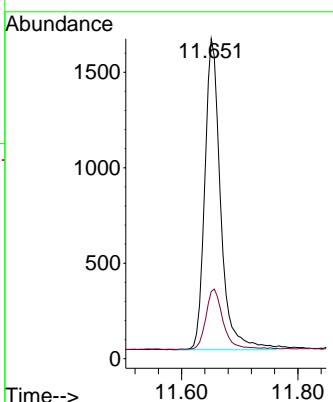
SSTDCCC0.4

Tgt Ion:152 Resp: 3083

Ion Ratio Lower Upper

152 100

151 21.4 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.390 ng

RT: 11.727 min Scan# 1095

Delta R.T. -0.005 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

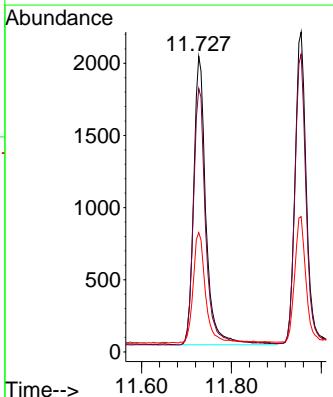
Tgt Ion:142 Resp: 3781

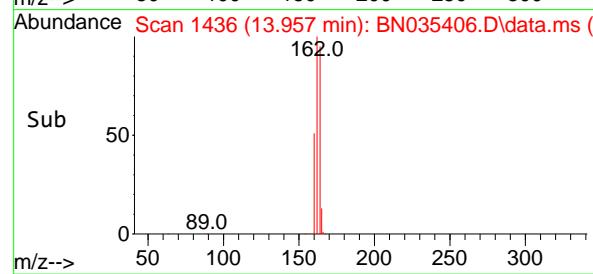
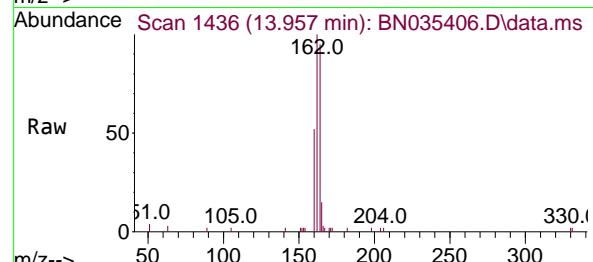
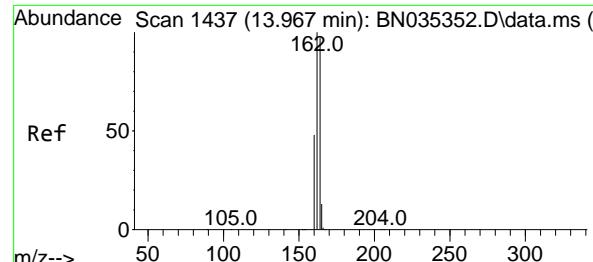
Ion Ratio Lower Upper

142 100

141 89.1 72.2 108.4

115 40.4 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

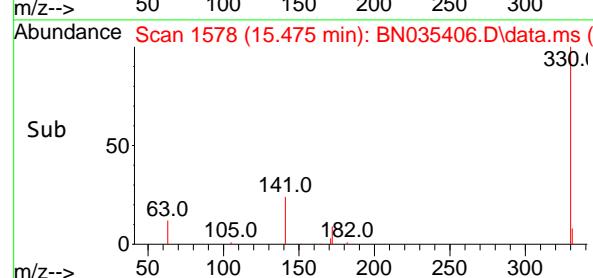
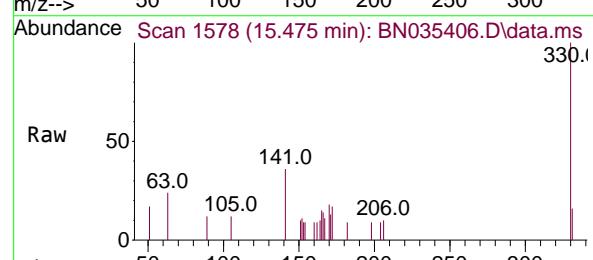
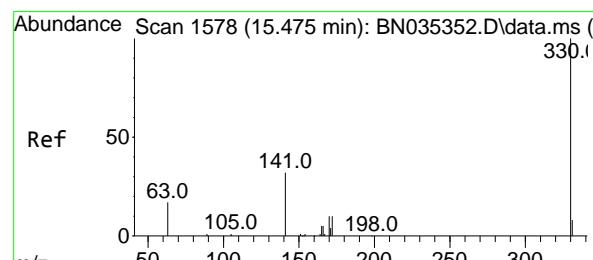
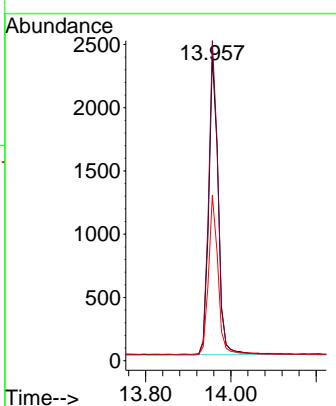
Tgt Ion:164 Resp: 3625

Ion Ratio Lower Upper

164 100

162 105.2 82.2 123.2

160 54.3 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: BN035406.D

Acq: 03 Dec 2024 16:35

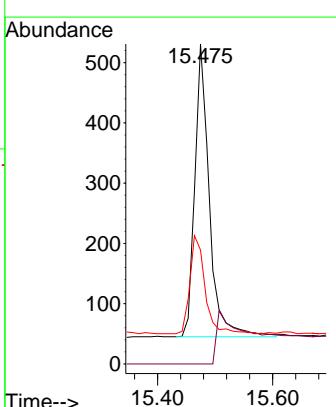
Tgt Ion:330 Resp: 916

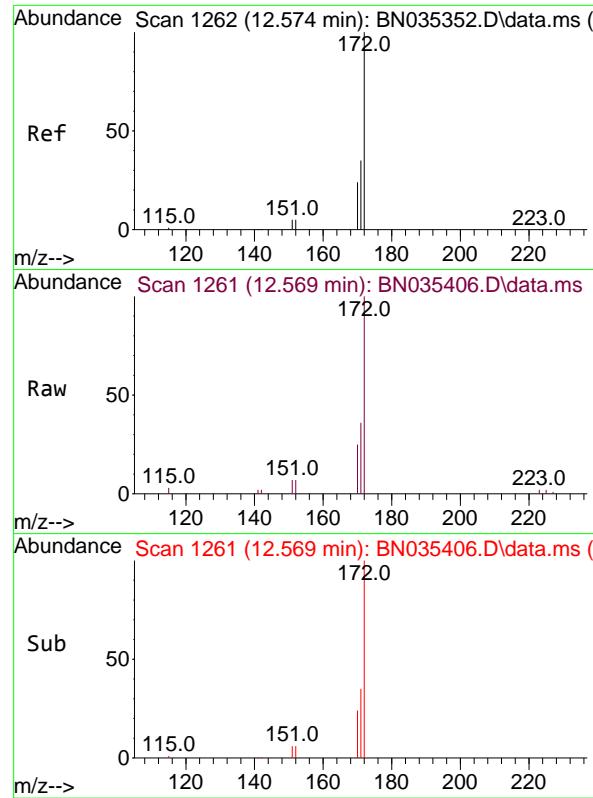
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

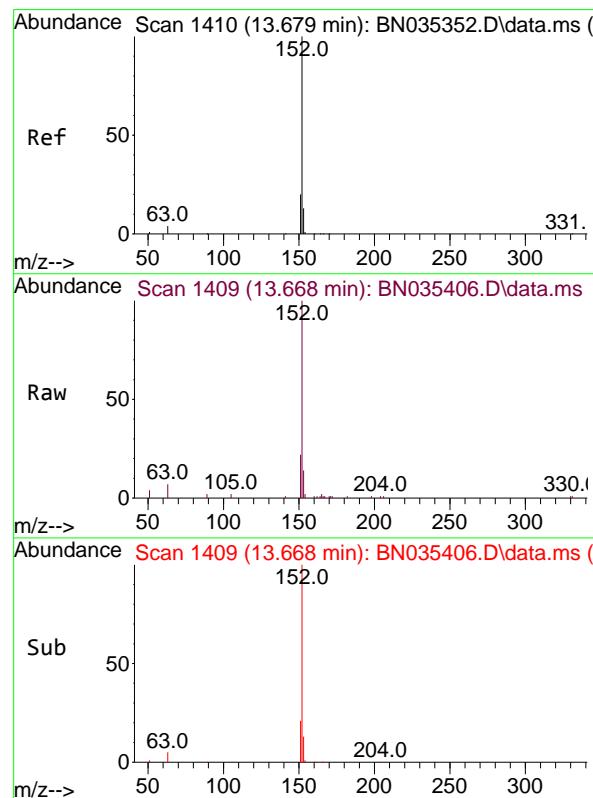
141 34.5 26.6 40.0





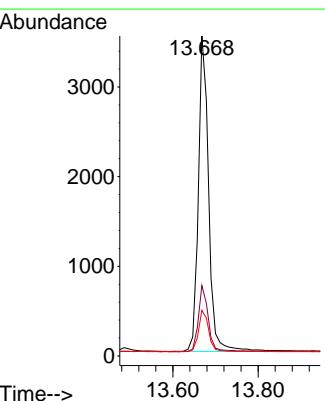
#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

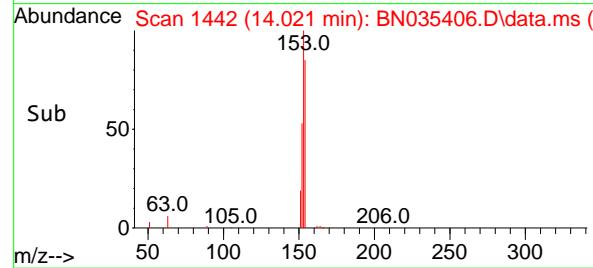
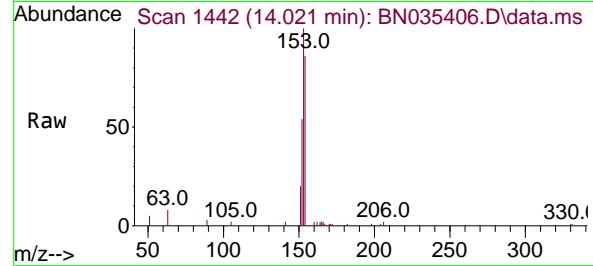
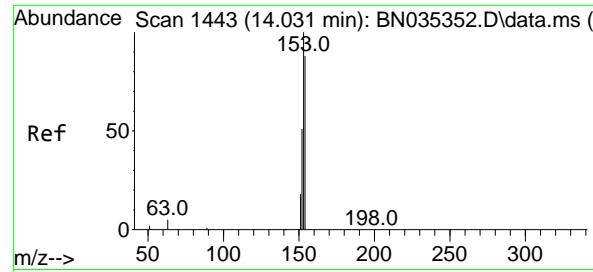
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:152 Resp: 5887
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.387 ng

RT: 14.021 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

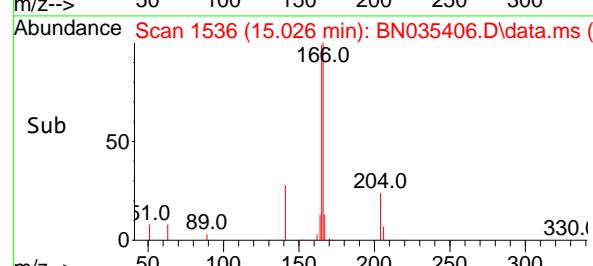
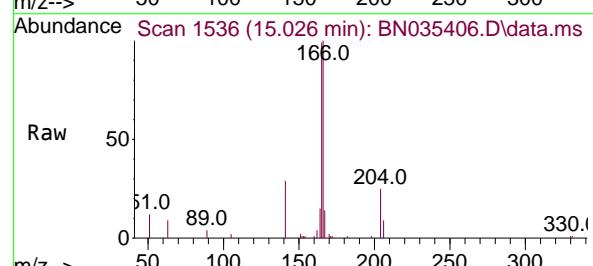
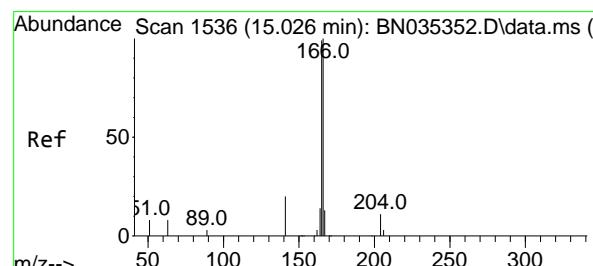
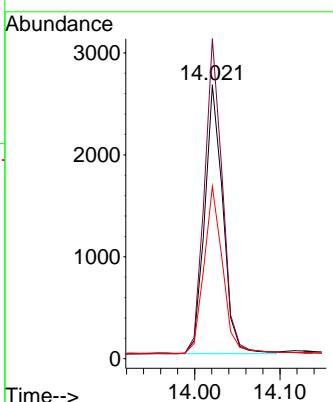
Tgt Ion:154 Resp: 3907

Ion Ratio Lower Upper

154 100

153 117.9 92.6 139.0

152 63.5 49.0 73.6



#18

Fluorene

Concen: 0.387 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

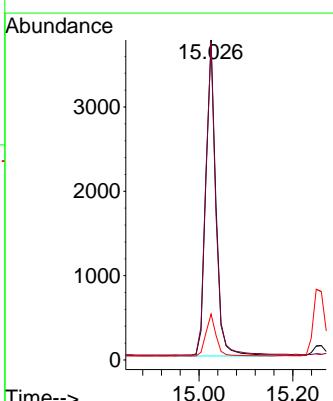
Tgt Ion:166 Resp: 5593

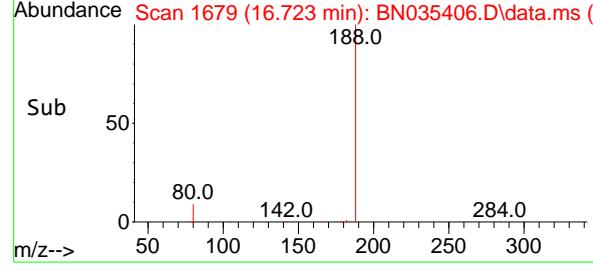
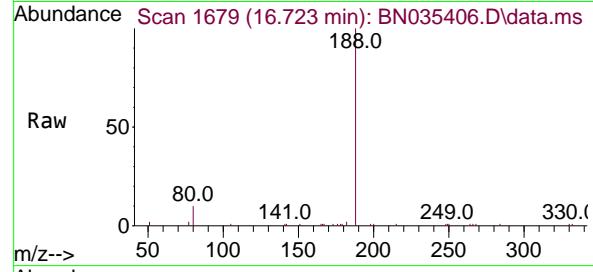
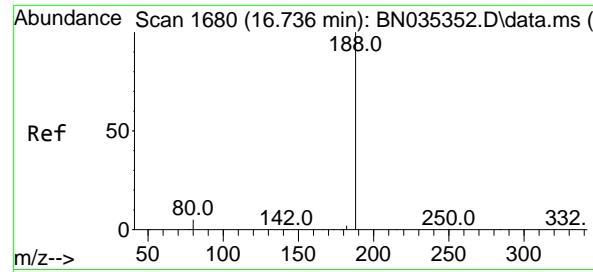
Ion Ratio Lower Upper

166 100

165 98.8 79.7 119.5

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument:

BNA_N

ClientSampleId :

SSTDCCC0.4

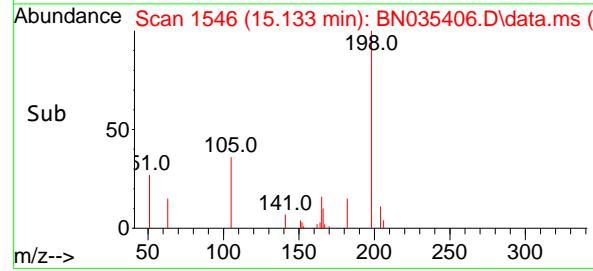
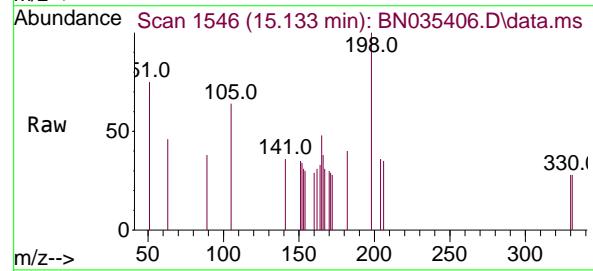
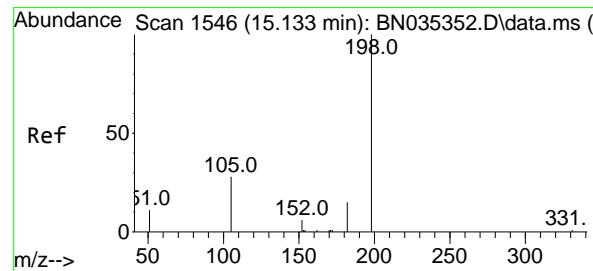
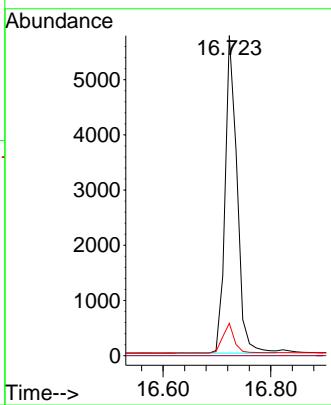
Tgt Ion:188 Resp: 8862

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: 0.334 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

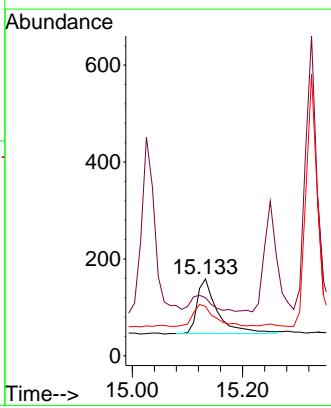
Tgt Ion:198 Resp: 291

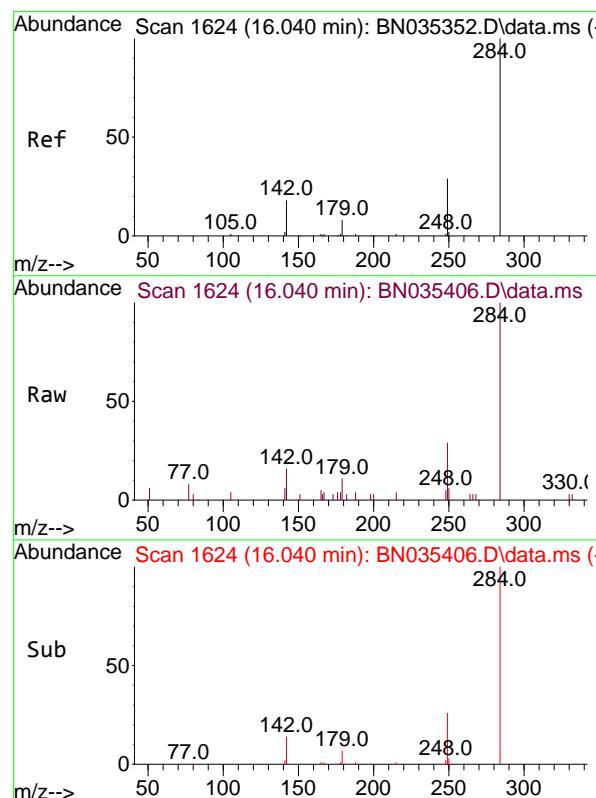
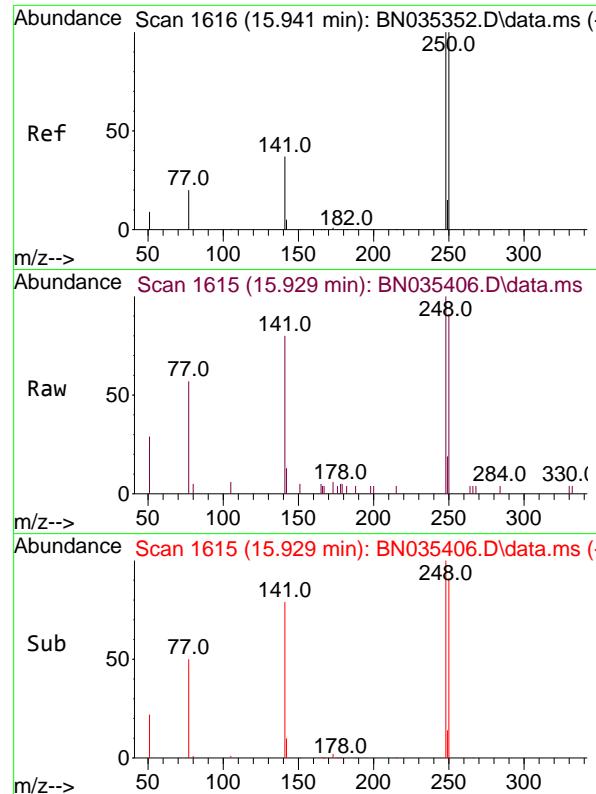
Ion Ratio Lower Upper

198 100

51 75.5 46.5 69.7#

105 64.2 45.3 67.9



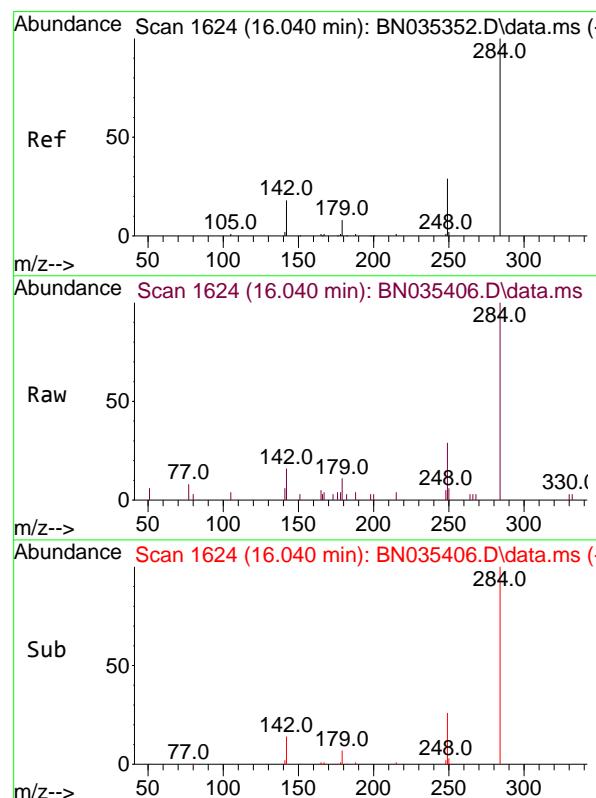
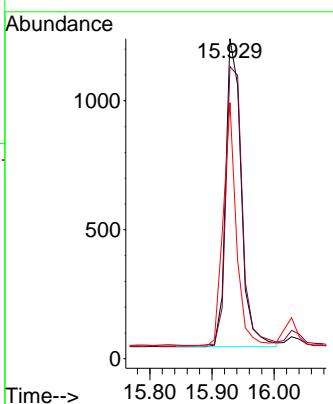


Instrument : BNA_N

ClientSampleId : SSTDCCC0.4

Tgt Ion:248 Resp: 2060

Ion	Ratio	Lower	Upper
248	100		
250	91.3	80.6	120.8
141	80.0	31.5	47.3



#22

Hexachlorobenzene

Concen: 0.419 ng

RT: 16.040 min Scan# 1624

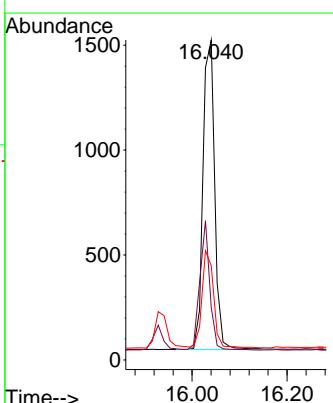
Delta R.T. -0.000 min

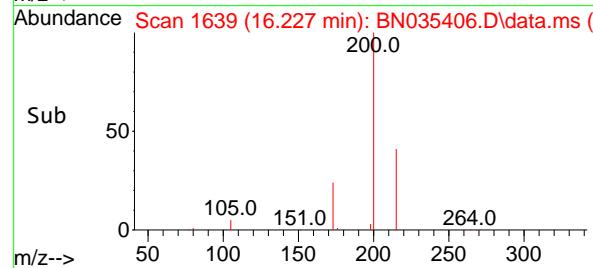
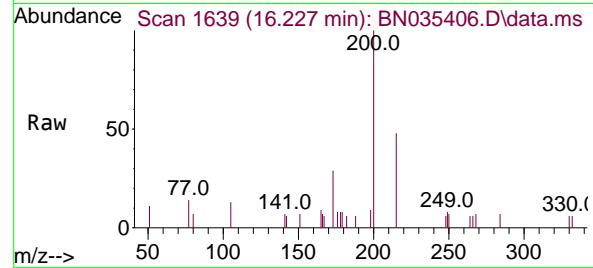
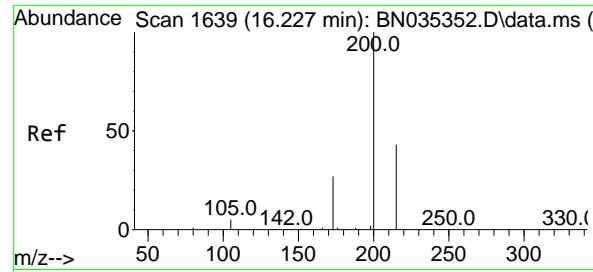
Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Tgt Ion:284 Resp: 2548

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.7	40.1
249	31.2	24.6	36.8

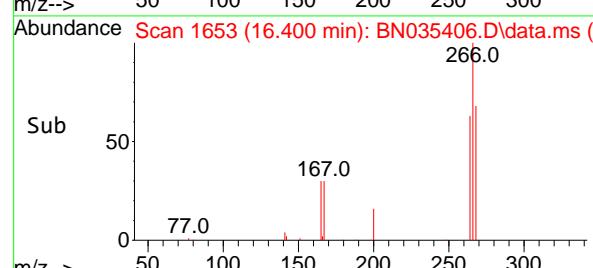
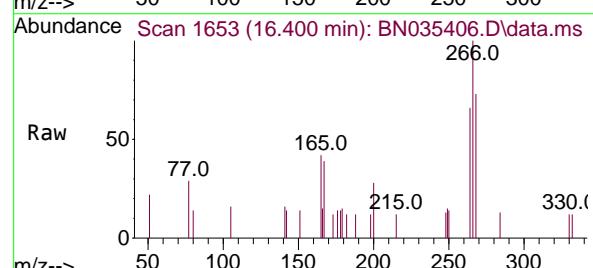
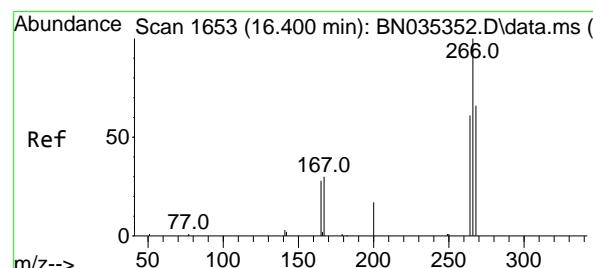
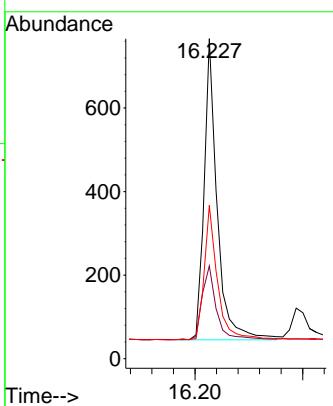




#23
Atrazine
Concen: 0.328 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

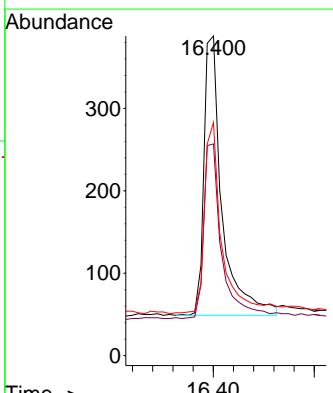
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

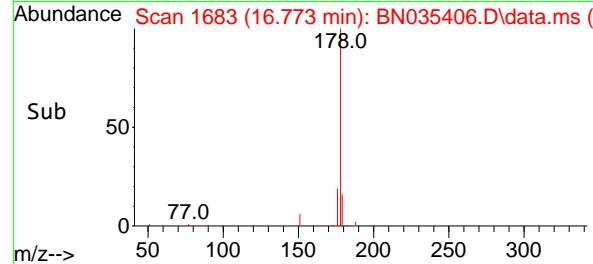
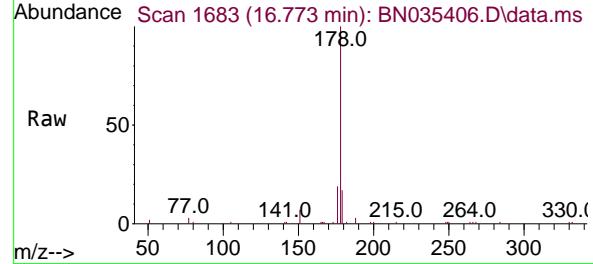
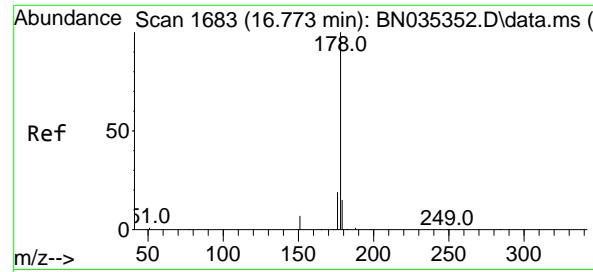
Tgt Ion:200 Resp: 1209
Ion Ratio Lower Upper
200 100
173 29.0 24.1 36.1
215 47.9 36.9 55.3



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:266 Resp: 848
Ion Ratio Lower Upper
266 100
264 63.0 42.3 63.5
268 67.1 43.3 64.9#





#25

Phenanthrene

Concen: 0.393 ng

RT: 16.773 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

Instrument:

BNA_N

ClientSampleId :

SSTDCCC0.4

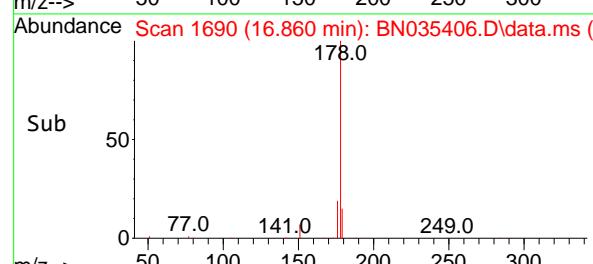
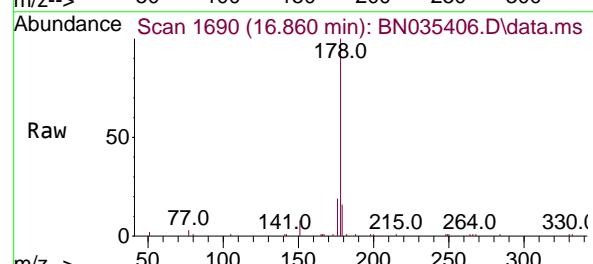
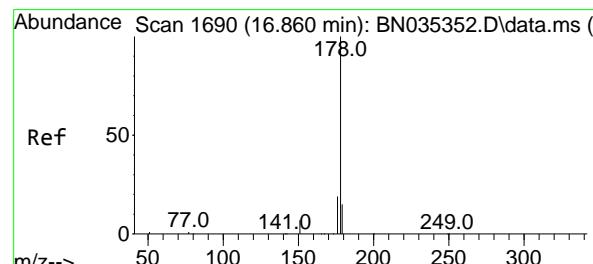
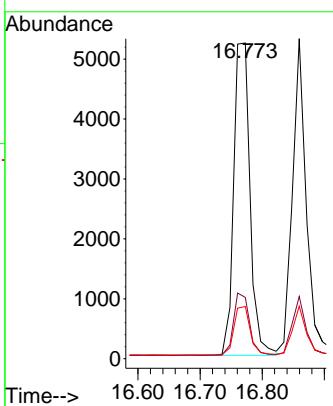
Tgt Ion:178 Resp: 9564

Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.374 ng

RT: 16.860 min Scan# 1690

Delta R.T. -0.000 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

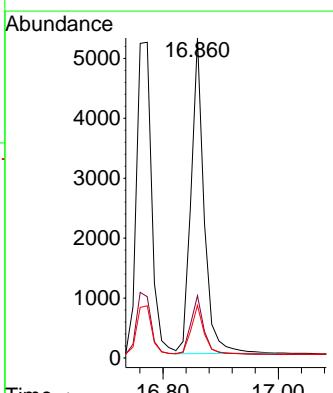
Tgt Ion:178 Resp: 8243

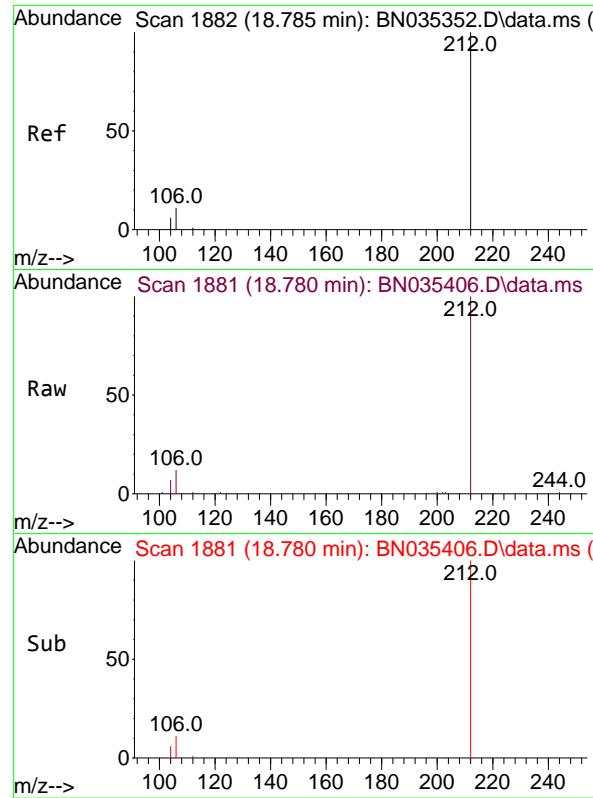
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 15.4 12.6 18.8

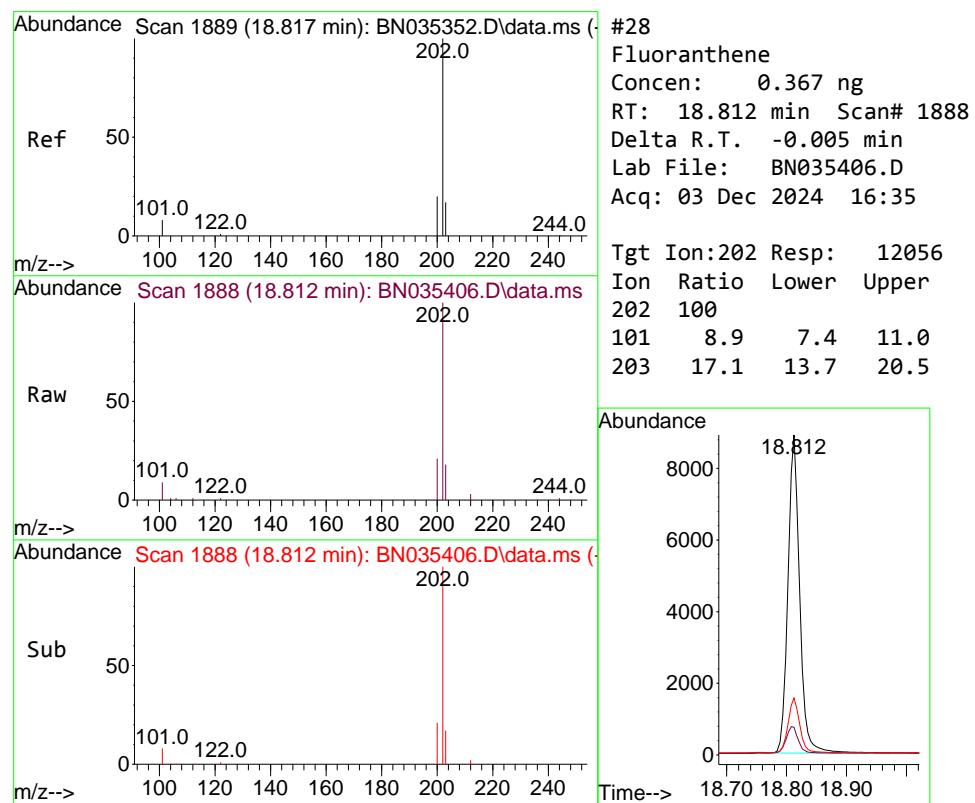
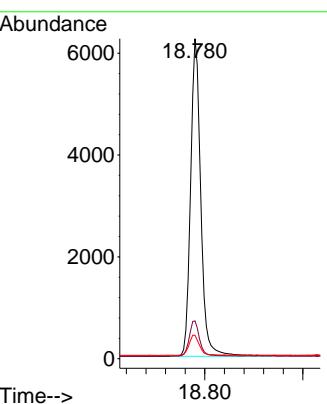




#27
 Fluoranthene-d10
 Concen: 0.359 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

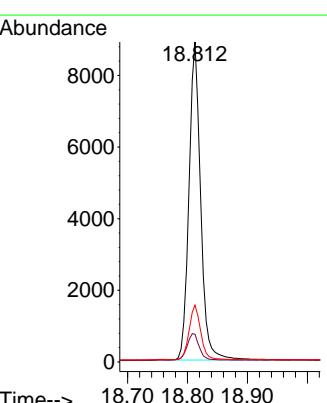
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

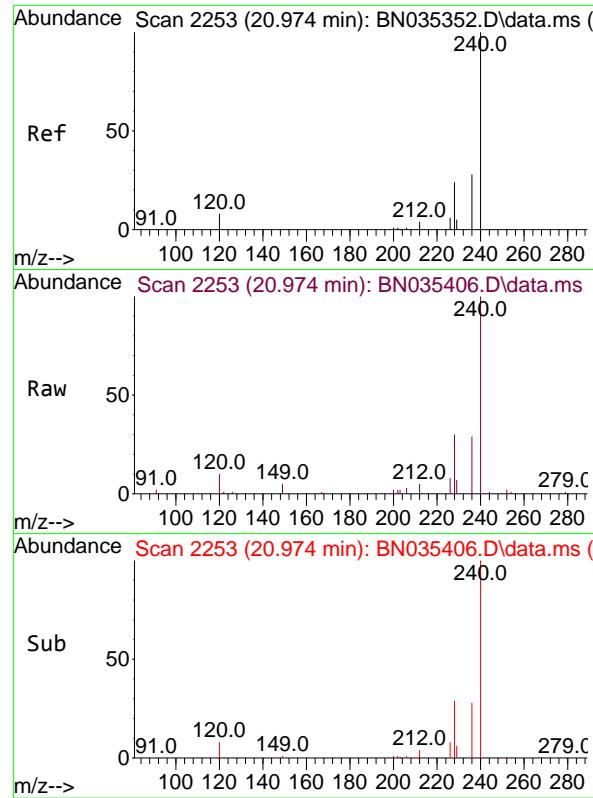
Tgt Ion:212 Resp: 9013
 Ion Ratio Lower Upper
 212 100
 106 11.3 9.2 13.8
 104 6.3 5.3 7.9



#28
 Fluoranthene
 Concen: 0.367 ng
 RT: 18.812 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion:202 Resp: 12056
 Ion Ratio Lower Upper
 202 100
 101 8.9 7.4 11.0
 203 17.1 13.7 20.5

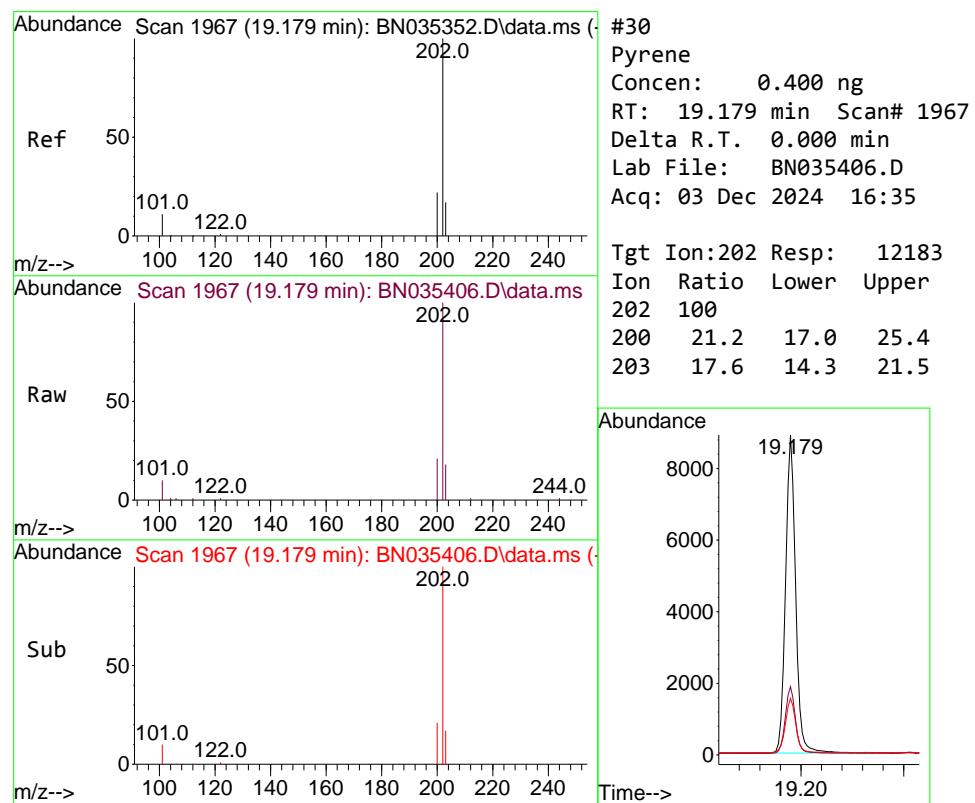
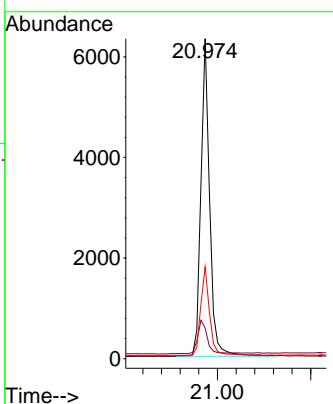




#29
Chrysene-d₁₂
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

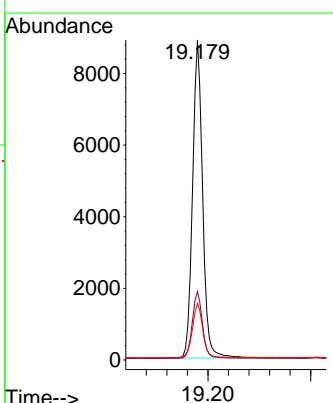
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

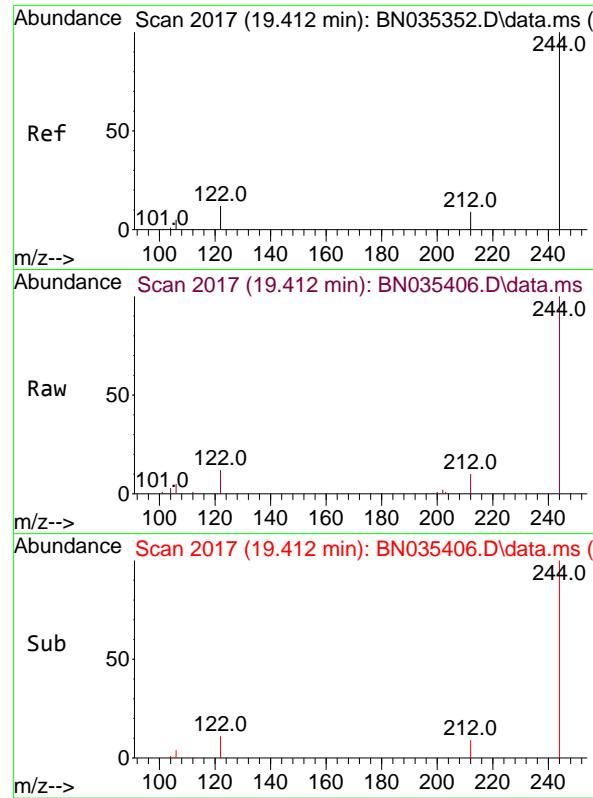
Tgt Ion:240 Resp: 8251
Ion Ratio Lower Upper
240 100
120 9.6 7.9 11.9
236 28.6 22.9 34.3



#30
Pyrene
Concen: 0.400 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:202 Resp: 12183
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.6 14.3 21.5

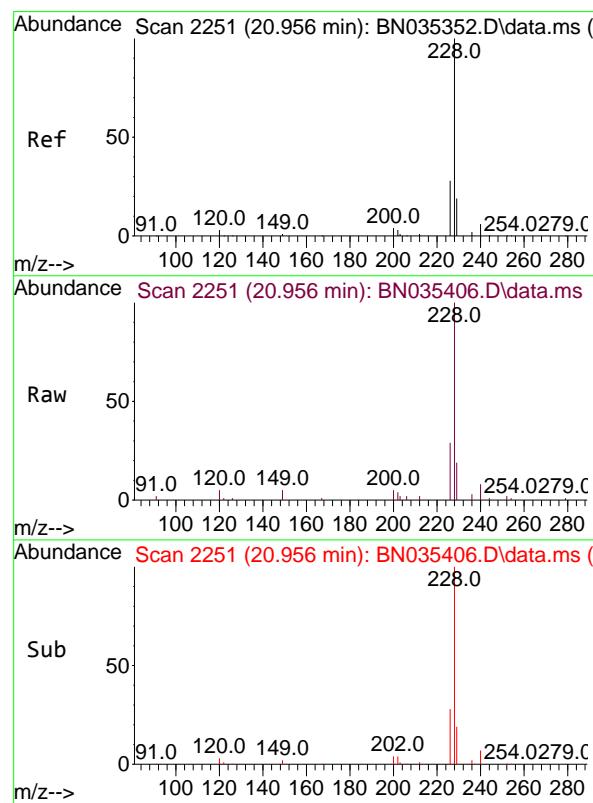
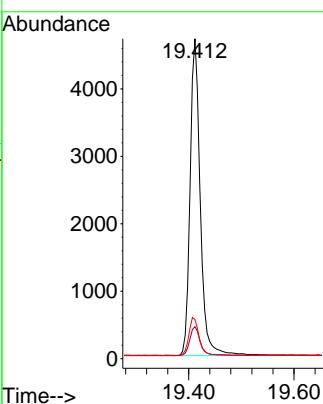




#31
Terphenyl-d14
Concen: 0.389 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

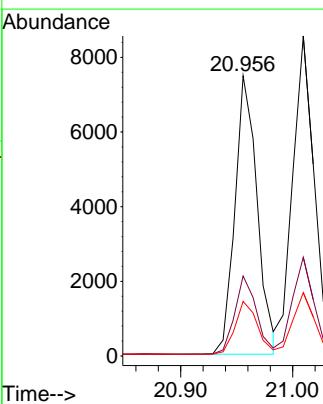
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

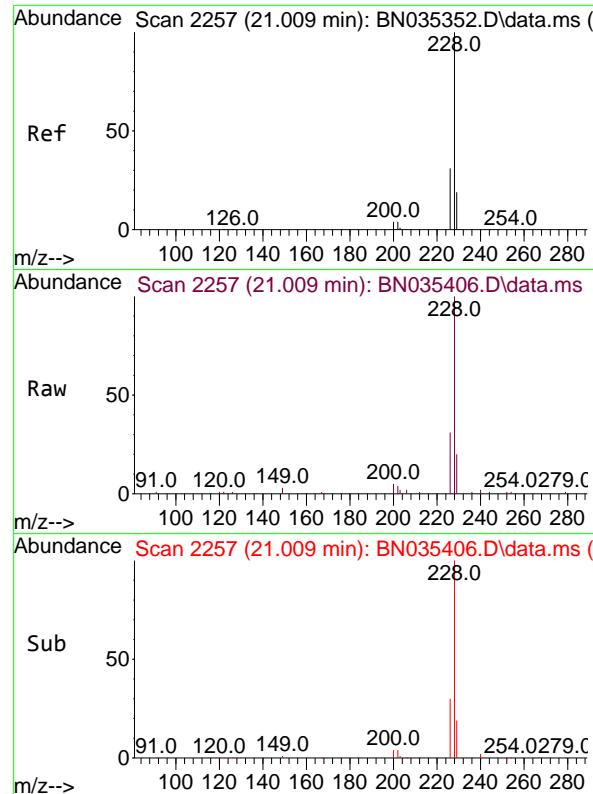
Tgt Ion:244 Resp: 6327
Ion Ratio Lower Upper
244 100
212 10.0 8.1 12.1
122 12.2 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:228 Resp: 10317
Ion Ratio Lower Upper
228 100
226 28.6 22.5 33.7
229 19.5 15.8 23.8

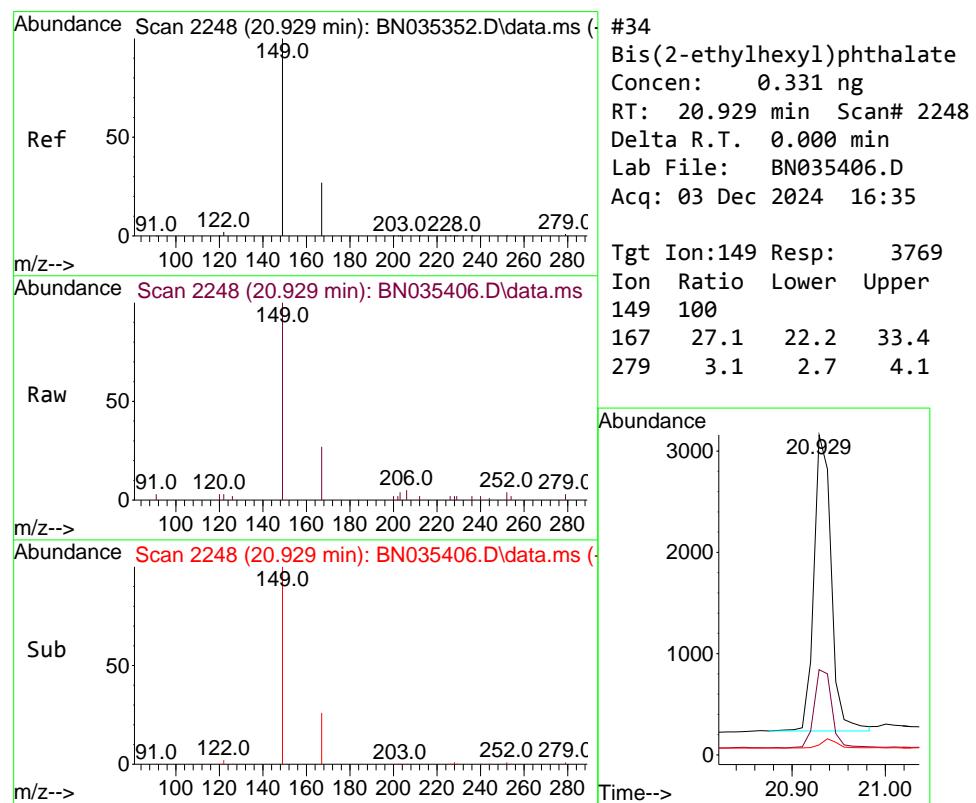
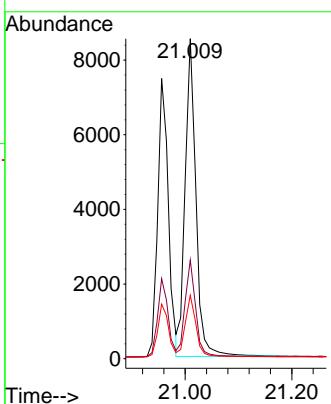




#33
 Chrysene
 Concen: 0.403 ng
 RT: 21.009 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

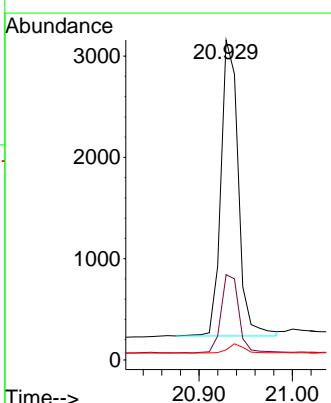
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

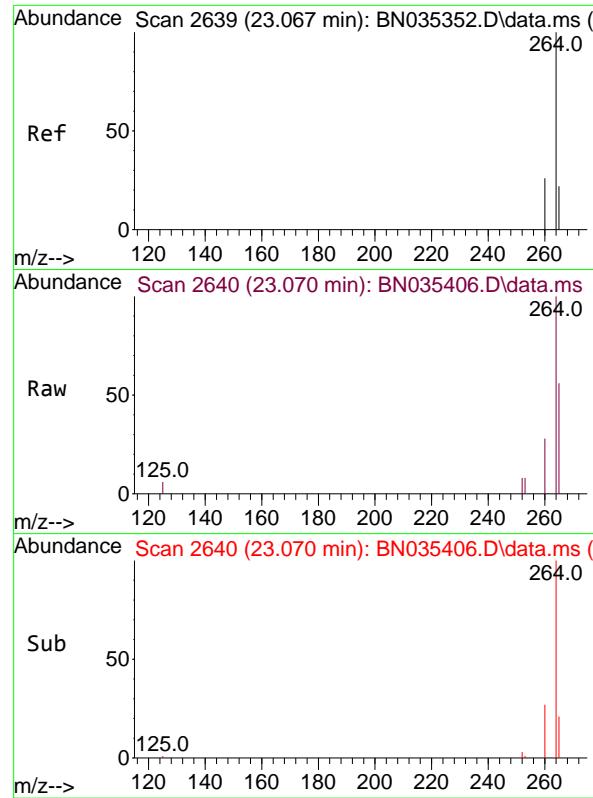
Tgt Ion:228 Resp: 12005
 Ion Ratio Lower Upper
 228 100
 226 30.9 24.6 37.0
 229 19.8 15.9 23.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.331 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion:149 Resp: 3769
 Ion Ratio Lower Upper
 149 100
 167 27.1 22.2 33.4
 279 3.1 2.7 4.1

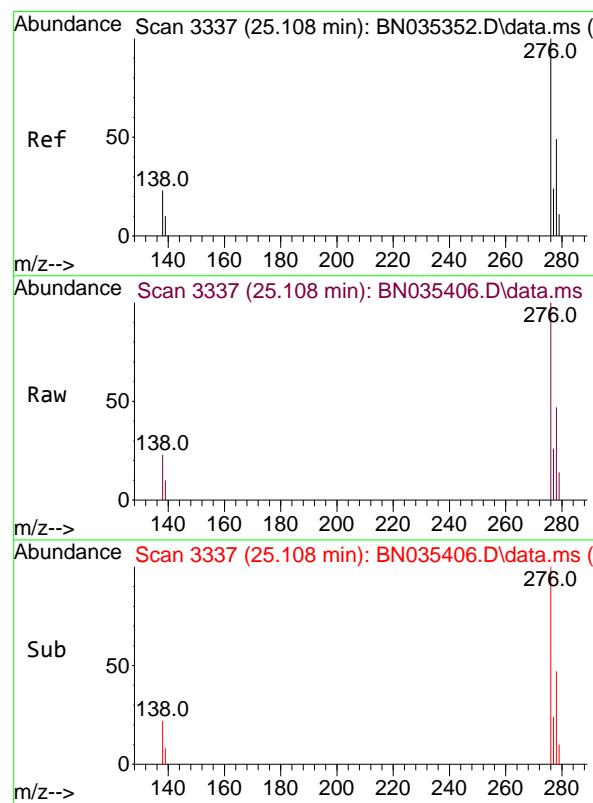
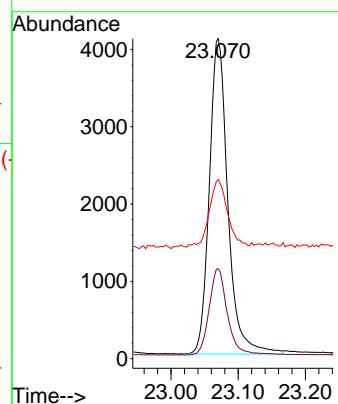




#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.070 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

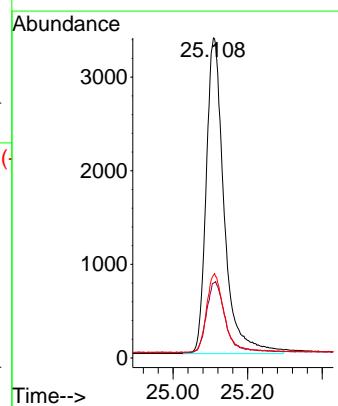
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

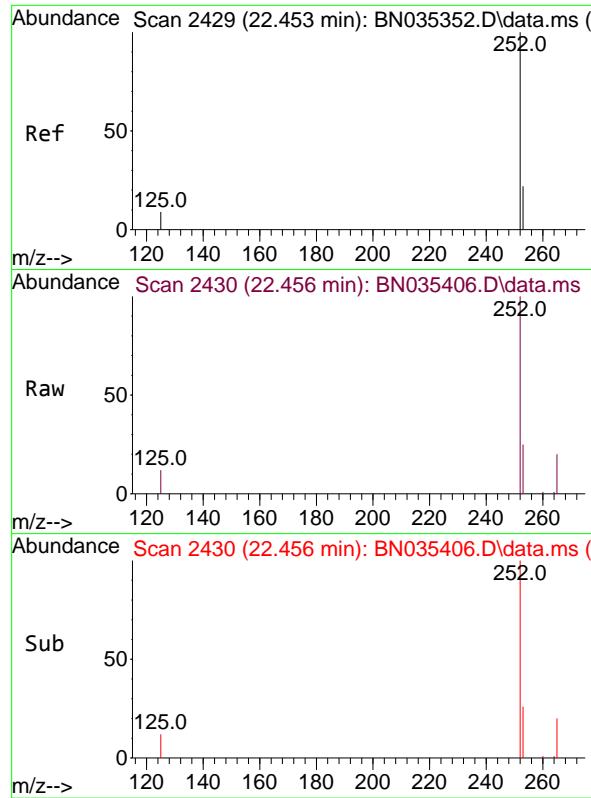
Tgt Ion:264 Resp: 7832
Ion Ratio Lower Upper
264 100
260 28.1 21.4 32.2
265 55.9 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.108 min Scan# 3337
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Tgt Ion:276 Resp: 11257
Ion Ratio Lower Upper
276 100
138 22.5 19.4 29.0
277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.456 min Scan# 2

Instrument :

BNA_N

Delta R.T. 0.003 min

Lab File: BN035406.D

ClientSampleId :

Acq: 03 Dec 2024 16:35

SSTDCCC0.4

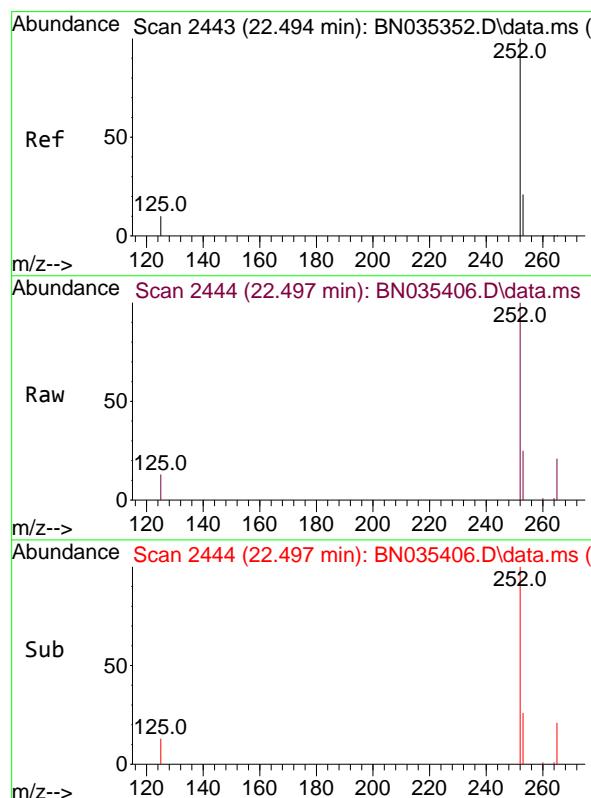
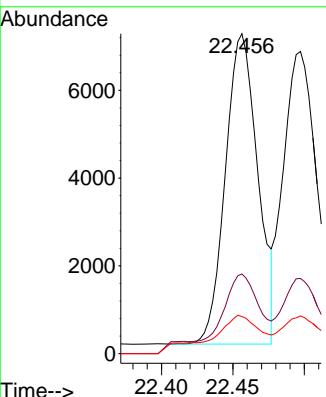
Tgt Ion:252 Resp: 11172

Ion Ratio Lower Upper

252 100

253 24.9 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.414 ng

RT: 22.497 min Scan# 2444

Delta R.T. 0.003 min

Lab File: BN035406.D

Acq: 03 Dec 2024 16:35

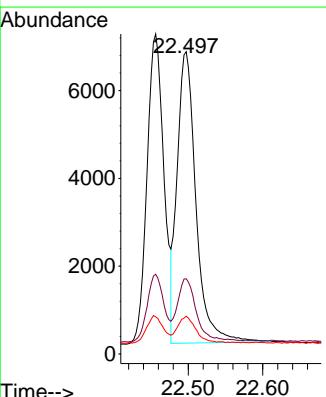
Tgt Ion:252 Resp: 11663

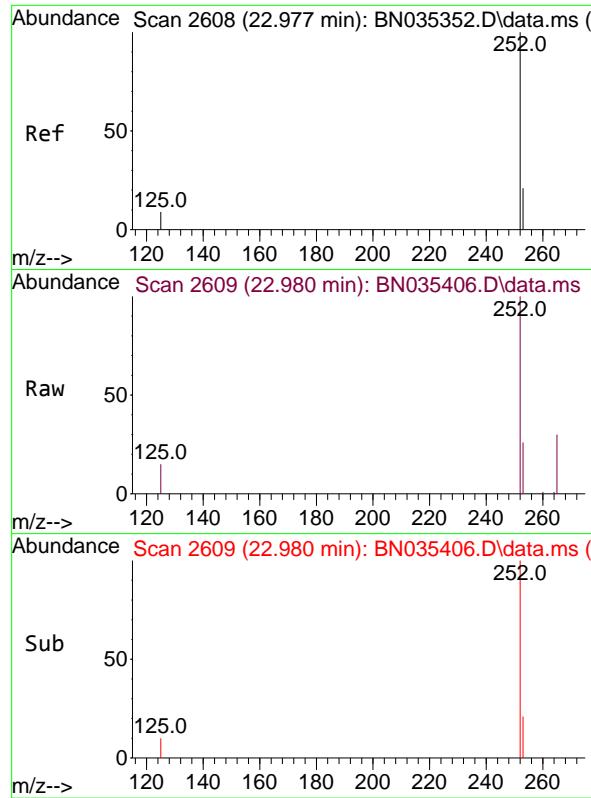
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.5 10.2 15.4

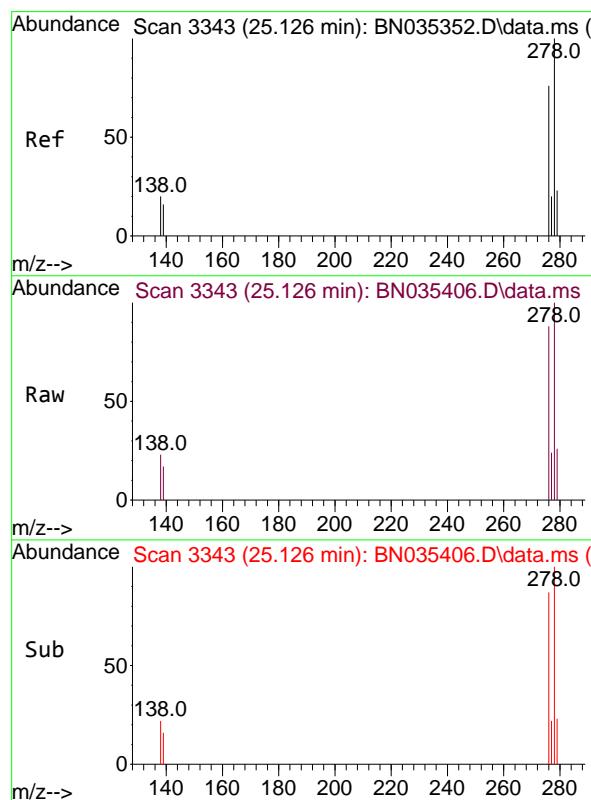
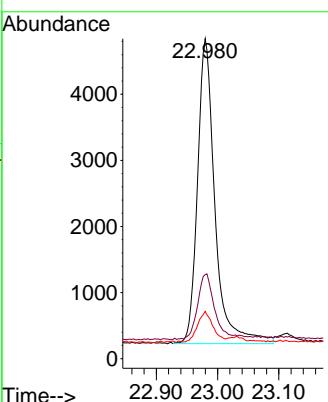




#39
 Benzo(a)pyrene
 Concen: 0.387 ng
 RT: 22.980 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

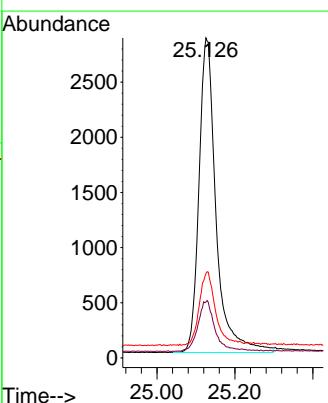
Instrument : BNA_N
 ClientSampleId : SSTDCCCC0.4

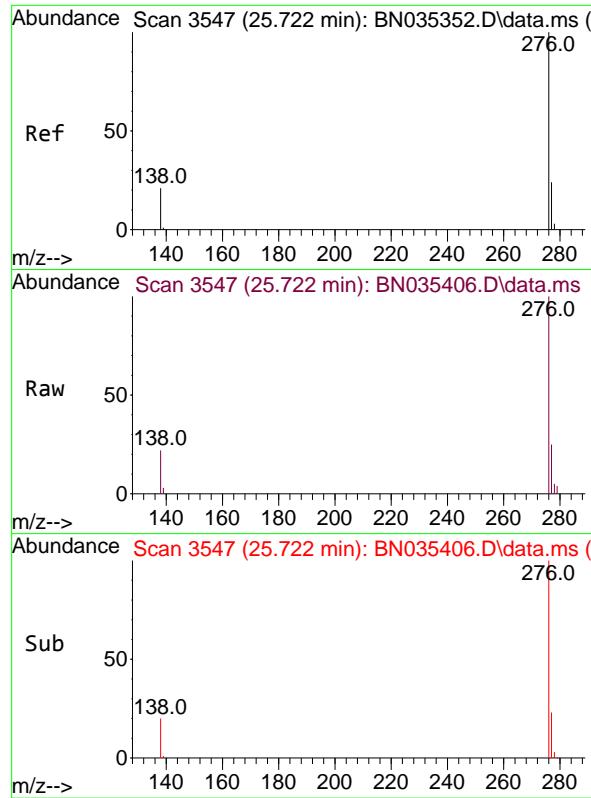
Tgt Ion:252 Resp: 9142
 Ion Ratio Lower Upper
 252 100
 253 26.3 20.2 30.4
 125 14.8 10.9 16.3



#40
 Dibenzo(a,h)anthracene
 Concen: 0.359 ng
 RT: 25.126 min Scan# 3343
 Delta R.T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion:278 Resp: 8667
 Ion Ratio Lower Upper
 278 100
 139 17.5 14.2 21.4
 279 26.4 20.5 30.7

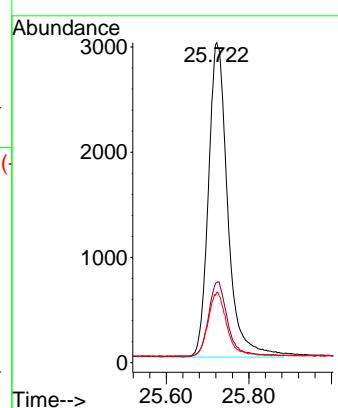




#41
Benzo(g,h,i)perylene
Concen: 0.383 ng
RT: 25.722 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

Instrument : BNA_N
ClientSampleId : SSTDCCCC0.4

Tgt Ion:276 Resp: 9676
Ion Ratio Lower Upper
276 100
277 25.1 19.9 29.9
138 22.0 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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	98	0.00
2	1,4-Dioxane	0.382	0.365	4.5	95	0.00
3	n-Nitrosodimethylamine	0.319	0.299	6.3	90	0.00
4 S	2-Fluorophenol	1.001	0.897	10.4	87	0.00
5 S	Phenol-d6	1.204	1.101	8.6	91	0.00
6	bis(2-Chloroethyl)ether	1.012	0.953	5.8	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	98	0.00
8 S	Nitrobenzene-d5	0.244	0.236	3.3	99	0.00
9	Naphthalene	1.055	1.038	1.6	97	-0.01
10	Hexachlorobutadiene	0.243	0.255	-4.9	101	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.600	4.2	95	0.00
12	2-Methylnaphthalene	0.755	0.736	2.5	98	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.253	10.9	94	0.00
15 S	2-Fluorobiphenyl	1.512	1.538	-1.7	97	0.00
16	Acenaphthylene	1.680	1.624	3.3	97	-0.01
17	Acenaphthene	1.115	1.078	3.3	95	-0.01
18	Fluorene	1.596	1.543	3.3	95	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.033	15.4	86	0.00
21	4-Bromophenyl-phenylether	0.234	0.232	0.9	96	-0.01
22	Hexachlorobenzene	0.275	0.288	-4.7	98	0.00
23	Atrazine	0.167	0.136	18.6	83	0.00
24	Pentachlorophenol	0.120	0.096	20.0	94	0.00
25	Phenanthrene	1.099	1.079	1.8	94	0.00
26	Anthracene	0.994	0.930	6.4	92	0.00
27 SURR	Fluoranthene-d10	1.134	1.017	10.3	88	0.00
28	Fluoranthene	1.481	1.360	8.2	90	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	87	0.00
30	Pyrene	1.477	1.477	0.0	87	0.00
31 S	Terphenyl-d14	0.789	0.767	2.8	84	0.00
32	Benzo(a)anthracene	1.399	1.250	10.7	80	0.00
33	Chrysene	1.443	1.455	-0.8	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.457	17.4	77	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.437	8.1	68	0.00
37	Benzo(b)fluoranthene	1.463	1.426	2.5	78	0.00
38	Benzo(k)fluoranthene	1.440	1.489	-3.4	77	0.00
39 C	Benzo(a)pyrene	1.205	1.167	3.2	74	0.00
40	Dibenzo(a,h)anthracene	1.234	1.107	10.3	67	0.00
41	Benzo(g,h,i)perylene	1.289	1.235	4.2	72	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 17:45:31 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	98	0.00
2	1,4-Dioxane	0.400	0.382	4.5	95	0.00
3	n-Nitrosodimethylamine	0.400	0.376	6.0	90	0.00
4 S	2-Fluorophenol	0.400	0.359	10.3	87	0.00
5 S	Phenol-d6	0.400	0.366	8.5	91	0.00
6	bis(2-Chloroethyl)ether	0.400	0.377	5.8	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	98	0.00
8 S	Nitrobenzene-d5	0.400	0.386	3.5	99	0.00
9	Naphthalene	0.400	0.393	1.8	97	-0.01
10	Hexachlorobutadiene	0.400	0.419	-4.7	101	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	95	0.00
12	2-Methylnaphthalene	0.400	0.390	2.5	98	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	95	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.356	11.0	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	97	0.00
16	Acenaphthylene	0.400	0.387	3.3	97	-0.01
17	Acenaphthene	0.400	0.387	3.3	95	-0.01
18	Fluorene	0.400	0.387	3.3	95	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	93	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.334	16.5	86	0.00
21	4-Bromophenyl-phenylether	0.400	0.397	0.8	96	-0.01
22	Hexachlorobenzene	0.400	0.419	-4.7	98	0.00
23	Atrazine	0.400	0.328	18.0	83	0.00
24	Pentachlorophenol	0.400	0.320	20.0	94	0.00
25	Phenanthrene	0.400	0.393	1.8	94	0.00
26	Anthracene	0.400	0.374	6.5	92	0.00
27 SURR	Fluoranthene-d10	0.400	0.359	10.3	88	0.00
28	Fluoranthene	0.400	0.367	8.3	90	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	87	0.00
30	Pyrene	0.400	0.400	0.0	87	0.00
31 S	Terphenyl-d14	0.400	0.389	2.8	84	0.00
32	Benzo(a)anthracene	0.400	0.357	10.8	80	0.00
33	Chrysene	0.400	0.403	-0.8	87	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.331	17.3	77	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	68	0.00
37	Benzo(b)fluoranthene	0.400	0.390	2.5	78	0.00
38	Benzo(k)fluoranthene	0.400	0.414	-3.5	77	0.00
39 C	Benzo(a)pyrene	0.400	0.387	3.3	74	0.00
40	Dibenzo(a,h)anthracene	0.400	0.359	10.3	67	0.00
41	Benzo(g,h,i)perylene	0.400	0.383	4.3	72	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>CHEMTECH</u>		Contract:	<u>TETR06</u>	
Lab Code:	<u>CHEM</u>	Case No.:	<u>P5065</u>	SAS No.:	<u>P5065</u>
Instrument ID:	<u>BNA_N</u>		Calibration Date/Time:	<u>12/03/2024</u>	<u>21:11</u>
Lab File ID:	<u>BN035413.D</u>		Init. Calib. Date(s):	<u>11/27/2024</u>	<u>11/27/2024</u>
EPA Sample No.:	<u>SSTDCCC0.4EC</u>		Init. Calib. Time(s):	<u>15:34</u>	<u>19:09</u>
GC Column:	ZB-GR	ID: 0.25	(mm)		

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.626	0.609		-2.7	50.0
Fluoranthene-d10	1.134	1.023		-9.8	50.0
2-Fluorophenol	1.001	0.907		-9.4	50.0
Phenol-d6	1.204	1.095		-9.1	50.0
Nitrobenzene-d5	0.244	0.240		-1.6	50.0
2-Fluorobiphenyl	1.512	1.547		2.3	50.0
2,4,6-Tribromophenol	0.284	0.256		-9.9	50.0
Terphenyl-d14	0.789	0.795		0.8	50.0
1,4-Dioxane	0.382	0.384		0.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

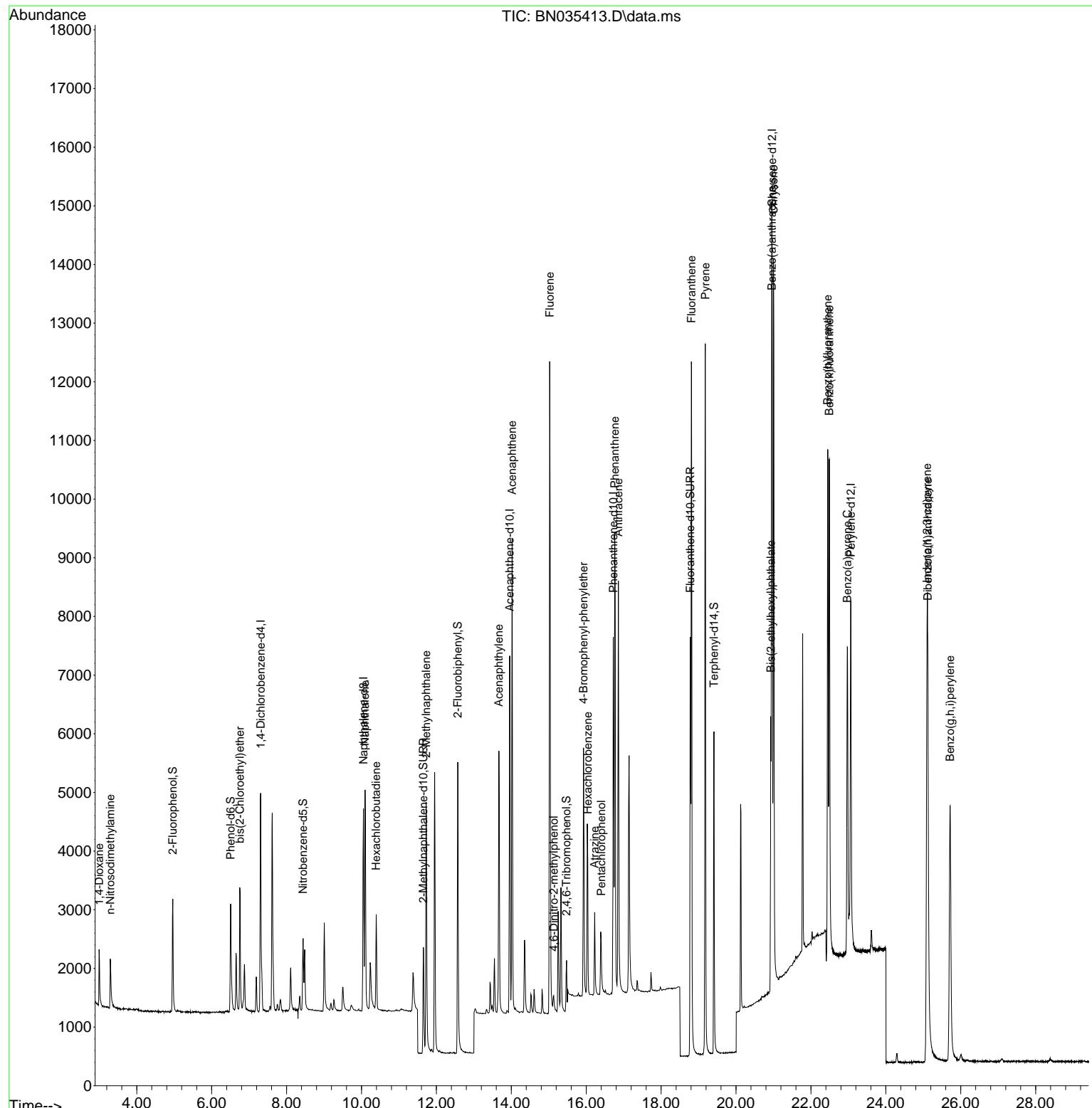
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1905	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4842	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3417	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8599	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7834	0.400	ng	# 0.00
35) Perylene-d12	23.064	264	7769	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1727	0.362	ng	0.00
5) Phenol-d6	6.506	99	2086	0.364	ng	0.00
8) Nitrobenzene-d5	8.440	82	1162m	0.393	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2948	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	874	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5285	0.409	ng	0.00
27) Fluoranthene-d10	18.780	212	8797	0.361	ng	0.00
31) Terphenyl-d14	19.412	244	6230	0.403	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	731	0.401	ng	98
3) n-Nitrosodimethylamine	3.292	42	561	0.370	ng	# 91
6) bis(2-Chloroethyl)ether	6.752	93	1811	0.376	ng	98
9) Naphthalene	10.095	128	5107	0.400	ng	99
10) Hexachlorobutadiene	10.394	225	1291	0.438	ng	# 100
12) 2-Methylnaphthalene	11.727	142	3555	0.389	ng	98
16) Acenaphthylene	13.668	152	5470	0.381	ng	99
17) Acenaphthene	14.021	154	3732	0.392	ng	98
18) Fluorene	15.026	166	5390	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	303	0.358	ng	97
21) 4-Bromophenyl-phenylether	15.929	248	1954	0.388	ng	# 74
22) Hexachlorobenzene	16.040	284	2442	0.413	ng	97
23) Atrazine	16.227	200	1233	0.344	ng	97
24) Pentachlorophenol	16.400	266	742	0.289	ng	87
25) Phenanthrene	16.760	178	9217	0.390	ng	100
26) Anthracene	16.860	178	7974	0.373	ng	100
28) Fluoranthene	18.812	202	11723	0.368	ng	99
30) Pyrene	19.179	202	11845	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10025	0.366	ng	100
33) Chrysene	21.001	228	11323	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3811	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	25.099	276	11352	0.374	ng	98
37) Benzo(b)fluoranthene	22.448	252	12967	0.456	ng	100
38) Benzo(k)fluoranthene	22.488	252	11373	0.407	ng	99
39) Benzo(a)pyrene	22.974	252	8498	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.120	278	8673	0.362	ng	98
41) Benzo(g,h,i)perylene	25.716	276	9224	0.368	ng	99

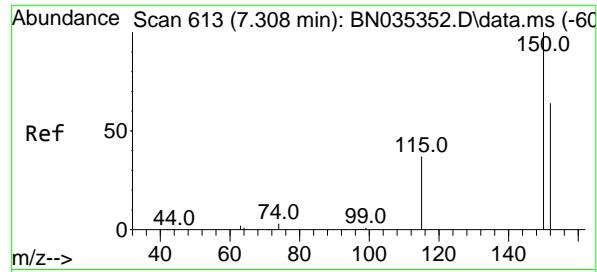
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

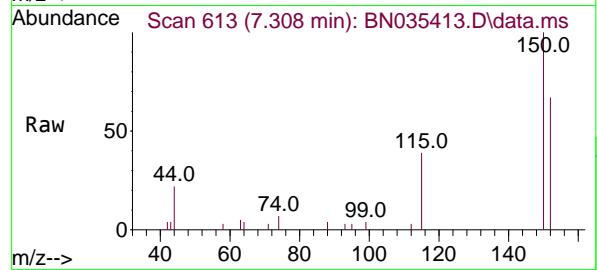
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

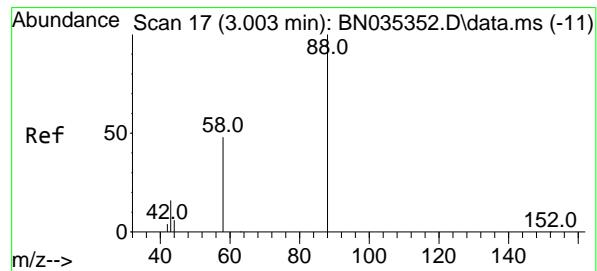
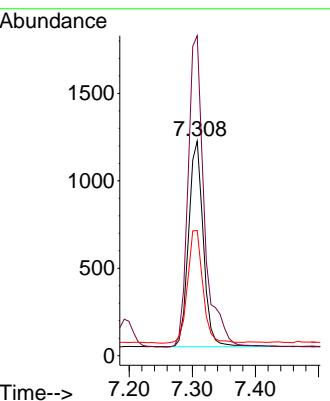
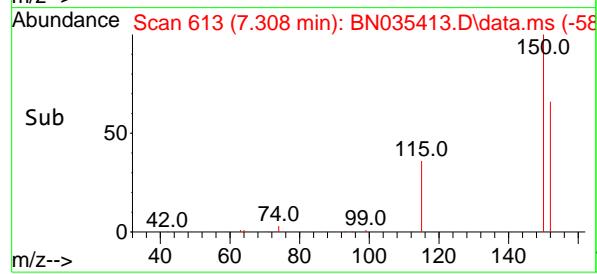




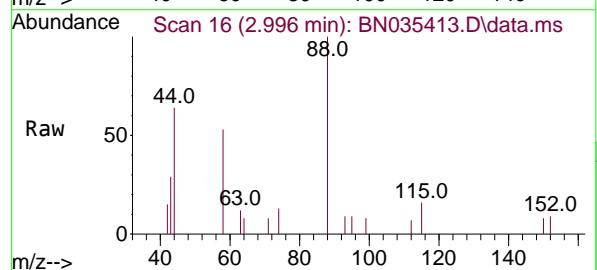
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035413.D
ClientSampleId : SSTDCCC0.4EC
Acq: 03 Dec 2024 21:11



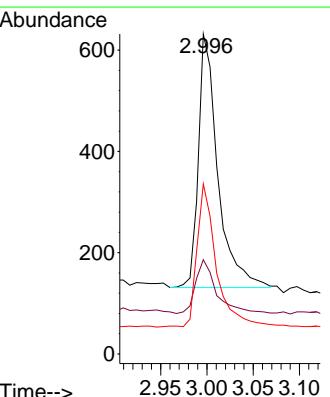
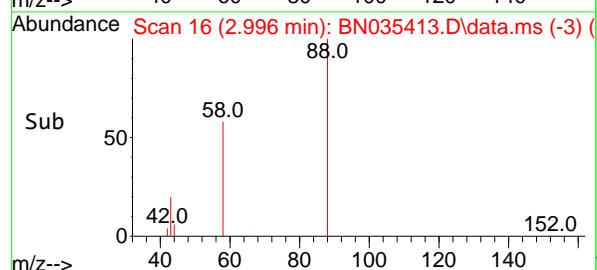
Tgt Ion:152 Resp: 1905
Ion Ratio Lower Upper
152 100
150 149.1 124.0 186.0
115 58.4 49.6 74.4

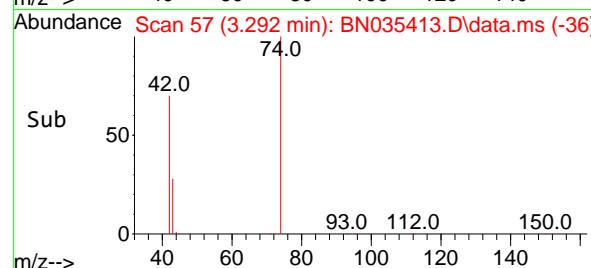
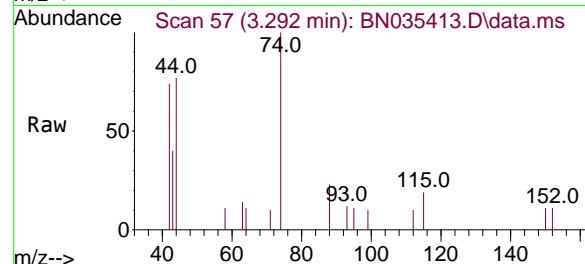
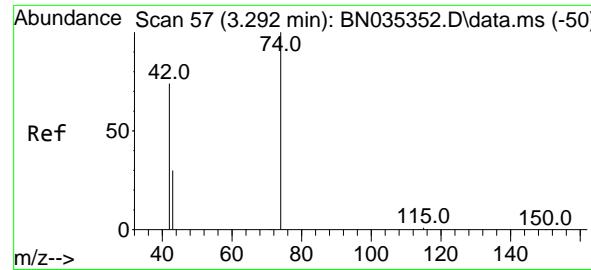


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



Tgt Ion: 88 Resp: 731
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 56.6 44.5 66.7

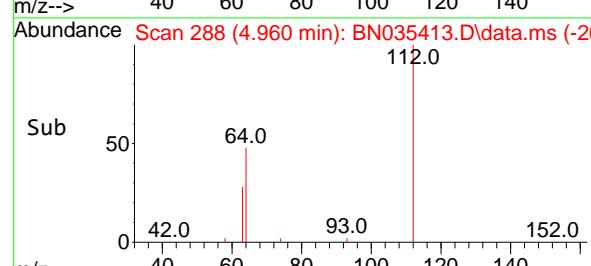
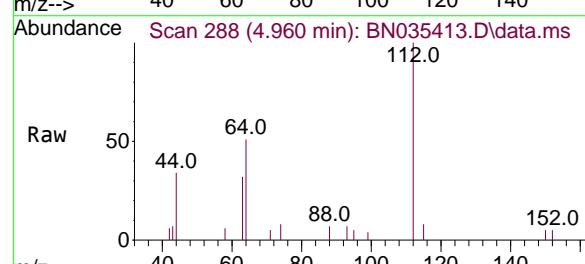
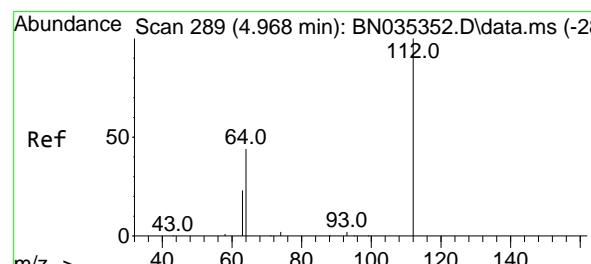
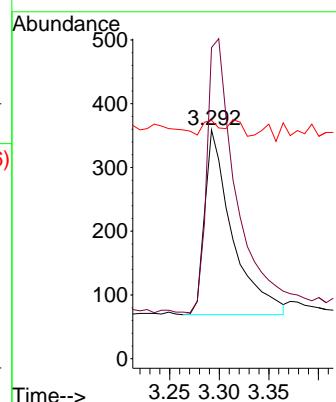




#3
n-Nitrosodimethylamine
Concen: 0.370 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

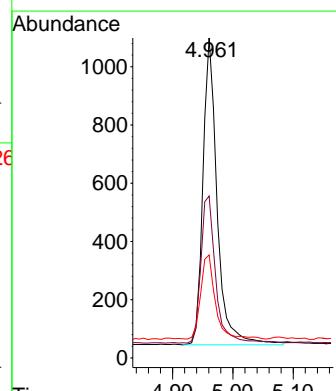
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

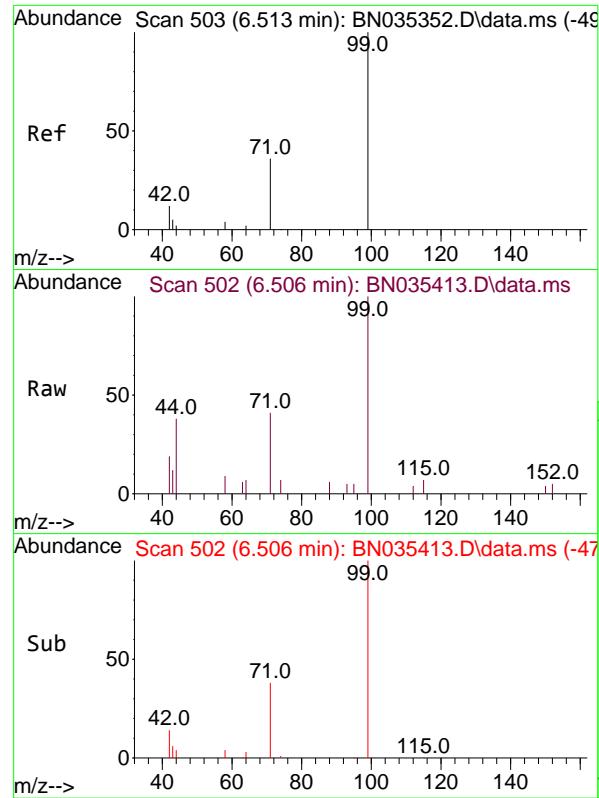
Tgt Ion: 42 Resp: 561
Ion Ratio Lower Upper
42 100
74 167.4 124.9 187.3
44 5.0 2.2 3.4#



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:112 Resp: 1727
Ion Ratio Lower Upper
112 100
64 50.1 39.8 59.8
63 28.4 21.0 31.6

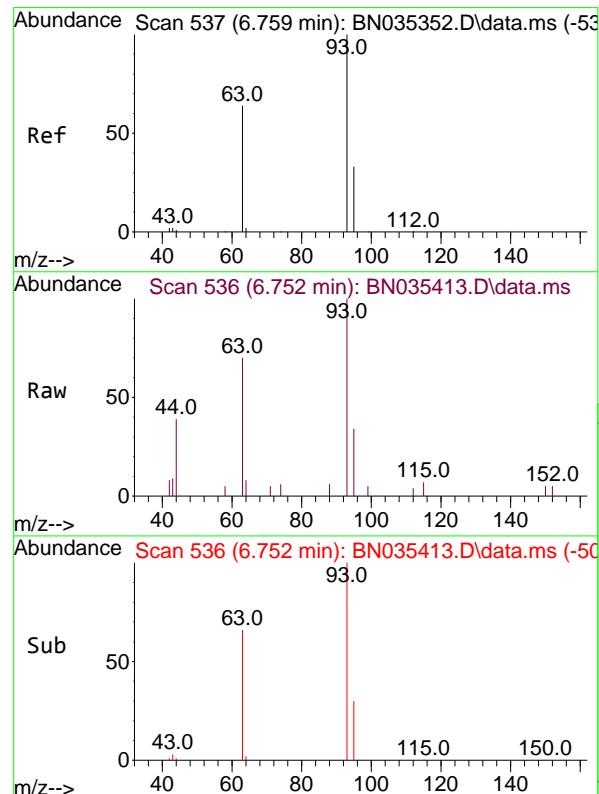
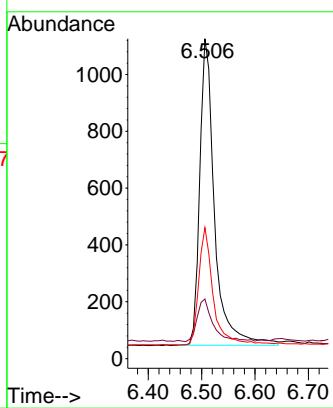




#5
 Phenol-d6
 Concen: 0.364 ng
 RT: 6.506 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

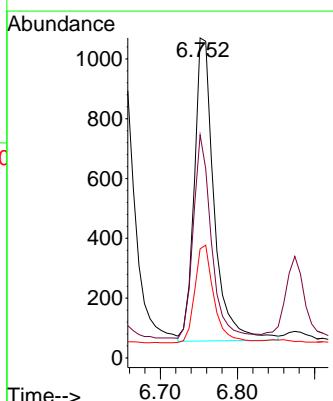
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

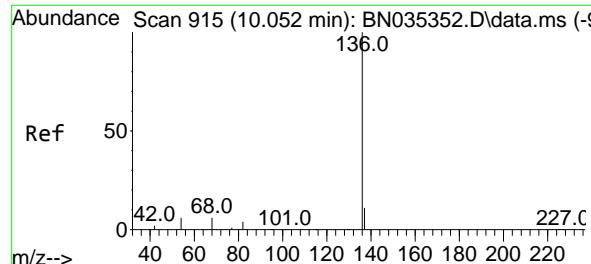
Tgt Ion: 99 Resp: 2086
 Ion Ratio Lower Upper
 99 100
 42 15.0 11.4 17.2
 71 37.5 29.3 43.9



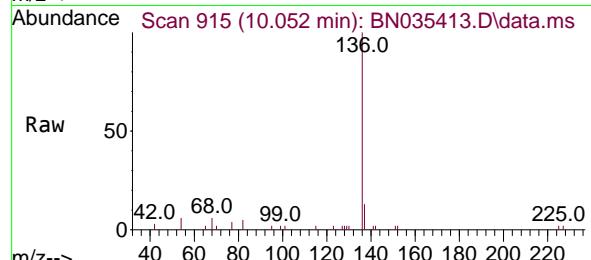
#6
 bis(2-Chloroethyl)ether
 Concen: 0.376 ng
 RT: 6.752 min Scan# 536
 Delta R.T. -0.007 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion: 93 Resp: 1811
 Ion Ratio Lower Upper
 93 100
 63 61.8 50.4 75.6
 95 31.1 25.7 38.5

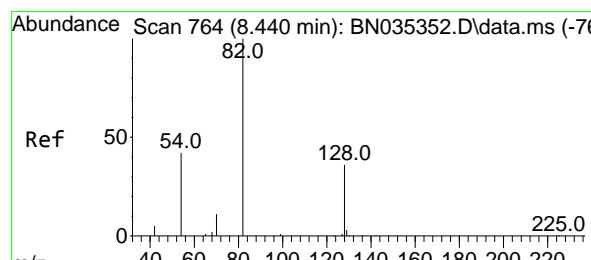
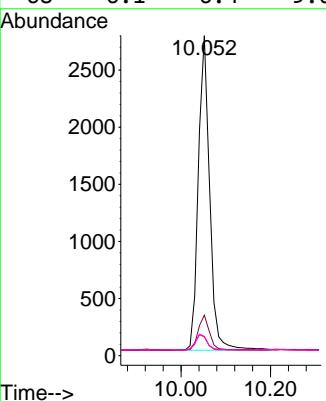
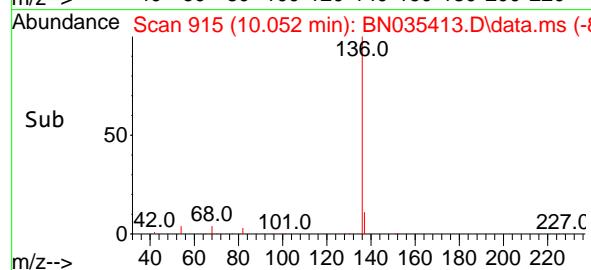




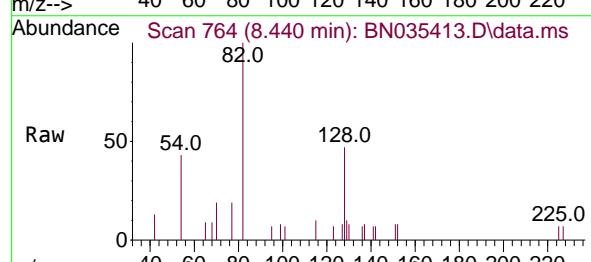
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 9
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035413.D
ClientSampleId : SSTDCCC0.4EC
Acq: 03 Dec 2024 21:11



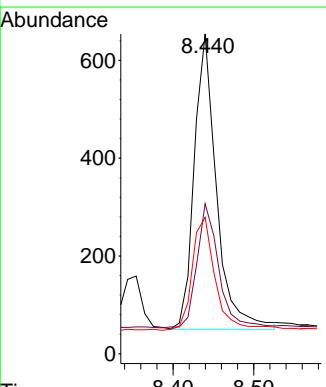
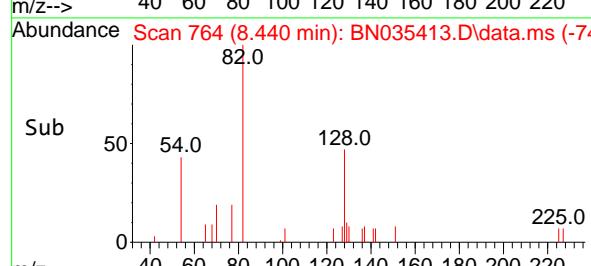
Tgt Ion:136 Resp: 4842
Ion Ratio Lower Upper
136 100
137 12.7 10.2 15.2
54 5.9 6.1 9.1#
68 6.1 6.4 9.6#

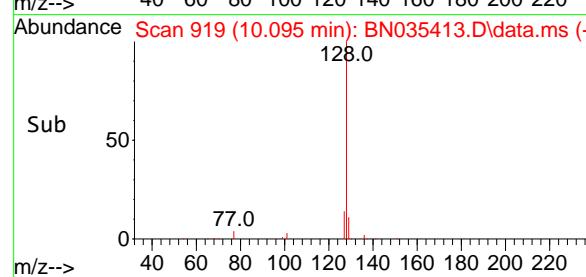
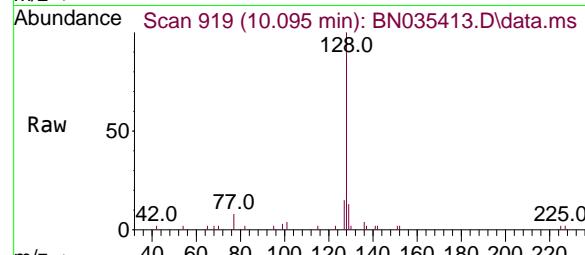
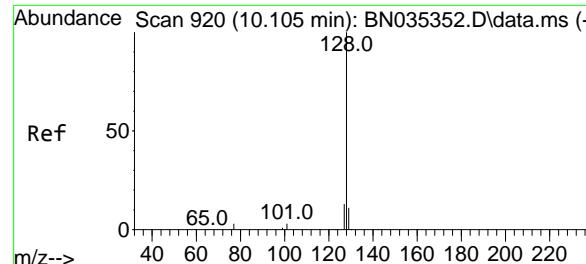


#8
Nitrobenzene-d5
Concen: 0.393 ng m
RT: 8.440 min Scan# 764
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



Tgt Ion: 82 Resp: 1162
Ion Ratio Lower Upper
82 100
128 46.9 33.4 50.0
54 42.7 36.7 55.1





#9

Naphthalene

Concen: 0.400 ng

RT: 10.095 min Scan# 9

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

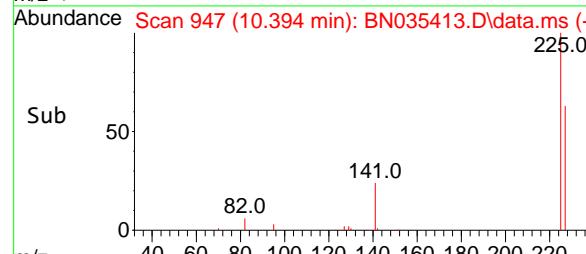
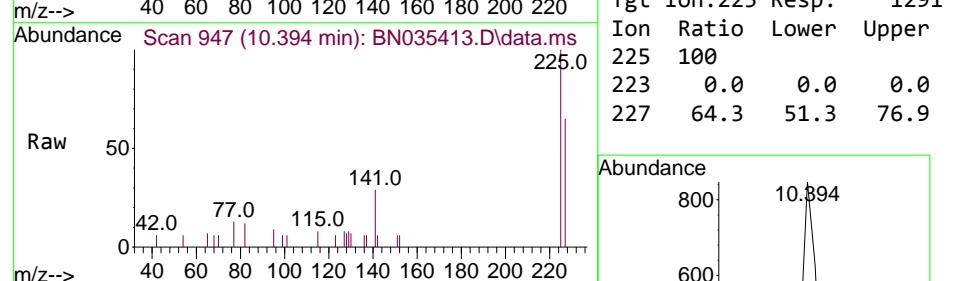
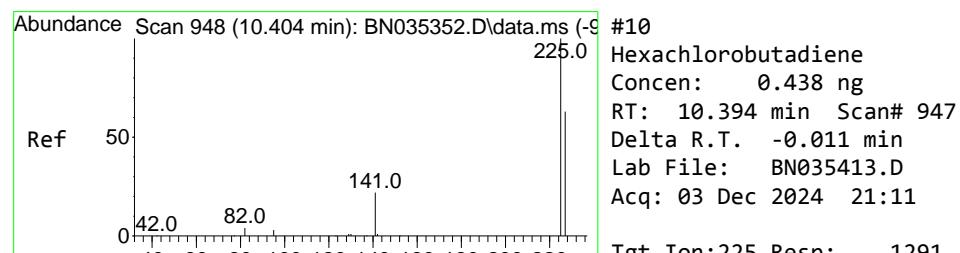
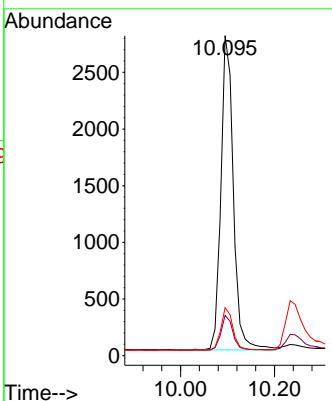
Tgt Ion:128 Resp: 5107

Ion Ratio Lower Upper

128 100

129 12.6 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.438 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

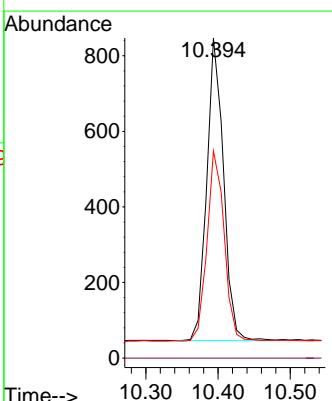
Tgt Ion:225 Resp: 1291

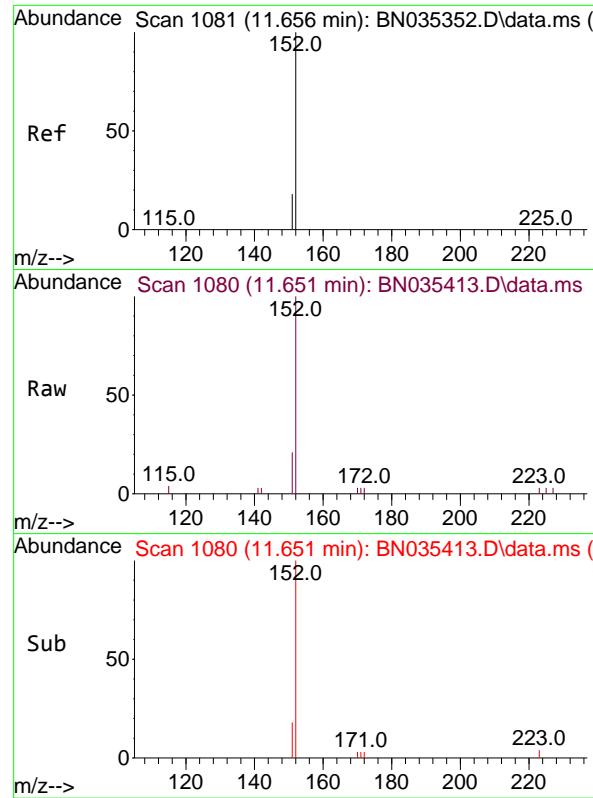
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.3 76.9

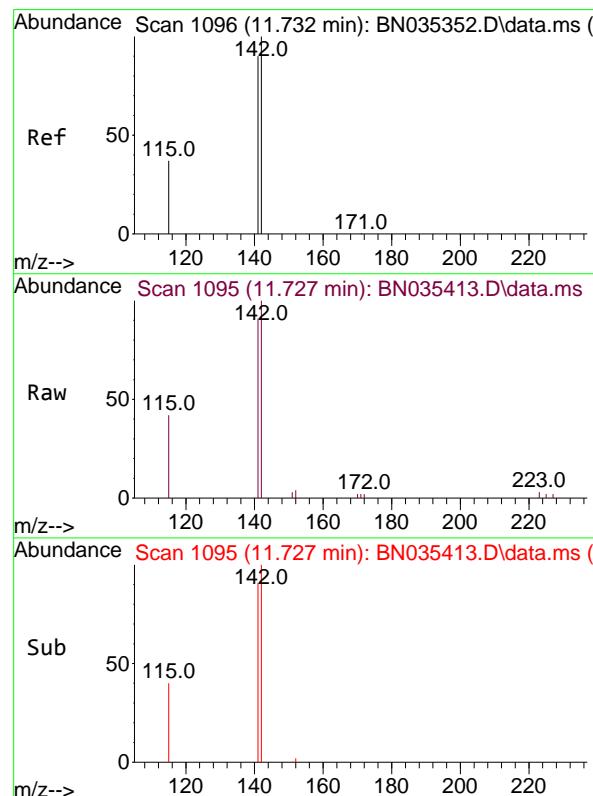
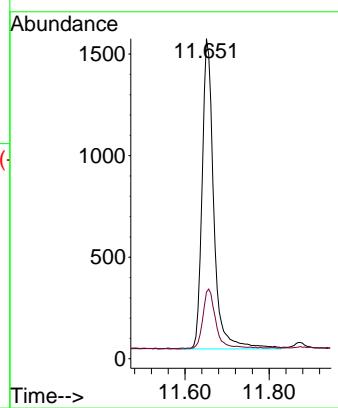




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.651 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

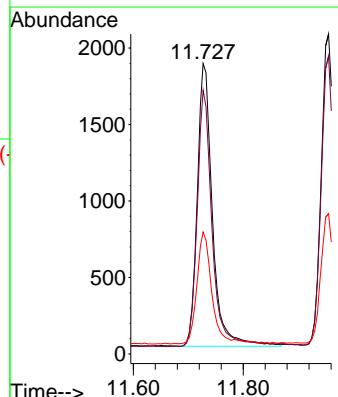
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

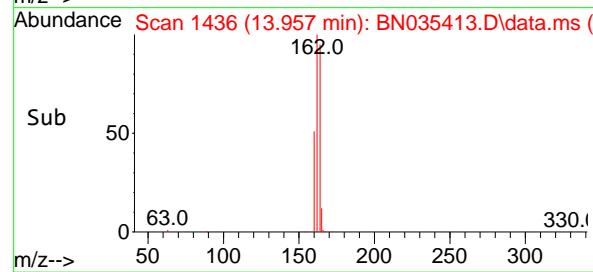
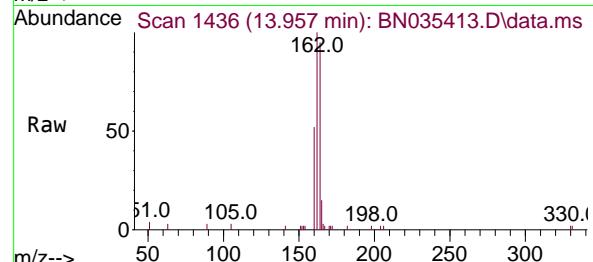
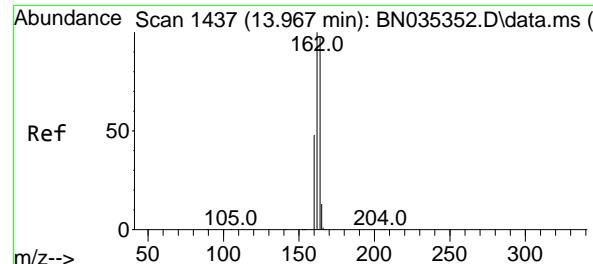
Tgt Ion:152 Resp: 2948
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:142 Resp: 3555
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: 13.957 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

STDCCC0.4EC

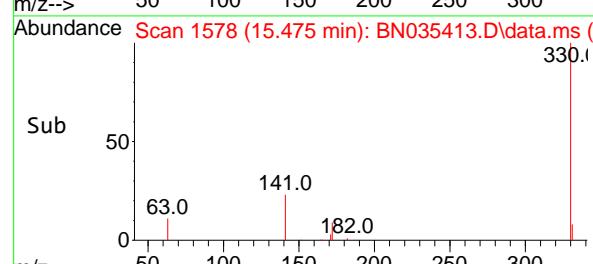
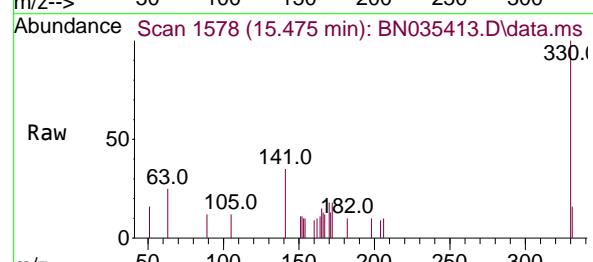
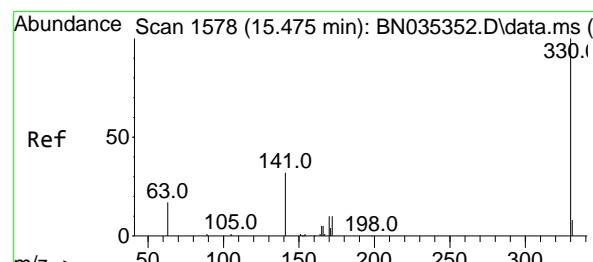
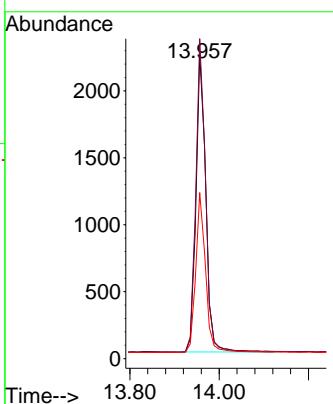
Tgt Ion:164 Resp: 3417

Ion Ratio Lower Upper

164 100

162 105.1 82.2 123.2

160 54.6 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.360 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

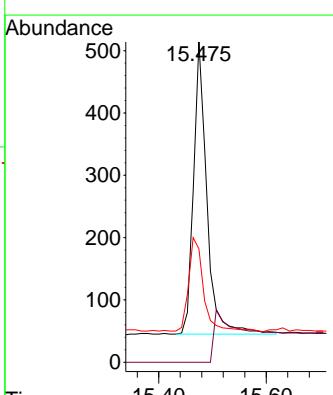
Tgt Ion:330 Resp: 874

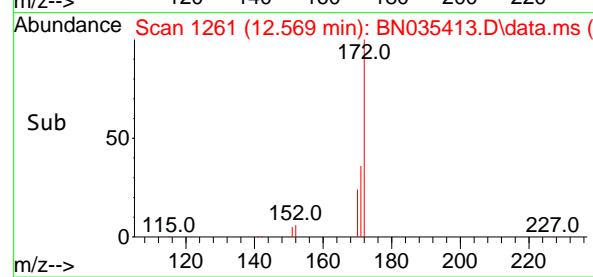
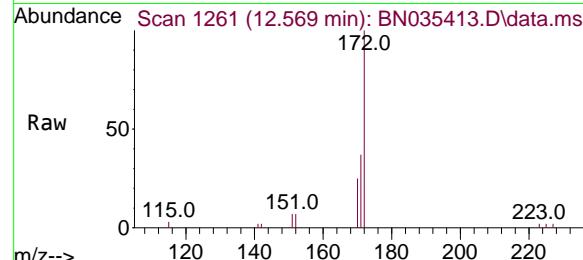
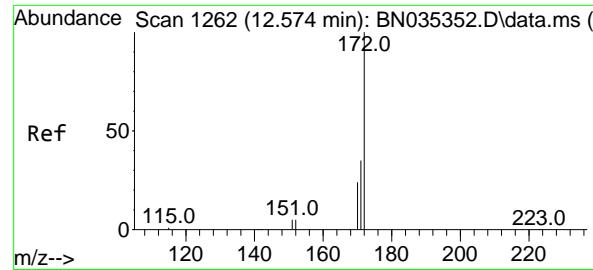
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 35.7 26.6 40.0

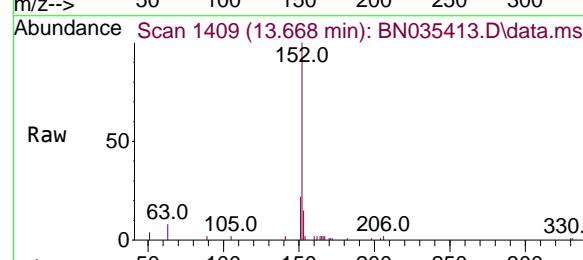
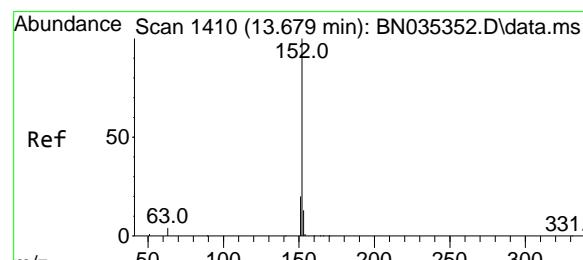
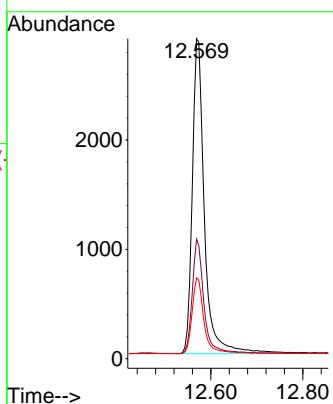




#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

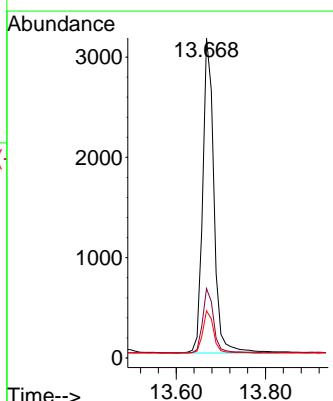
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

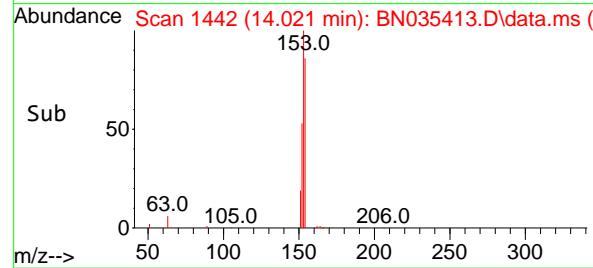
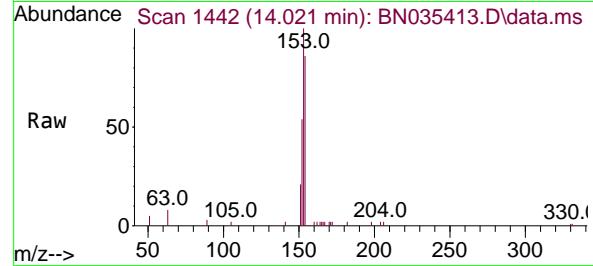
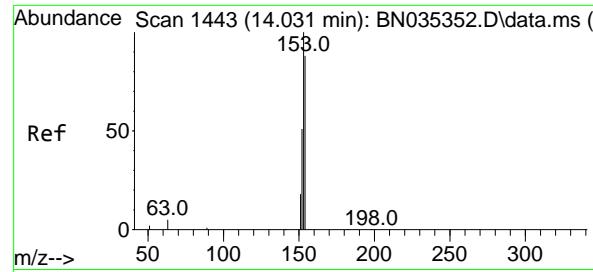
Tgt Ion:172 Resp: 5285
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.4
170 25.2 19.8 29.8



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:152 Resp: 5470
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.392 ng

RT: 14.021 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

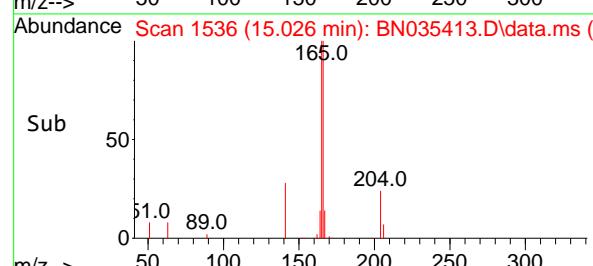
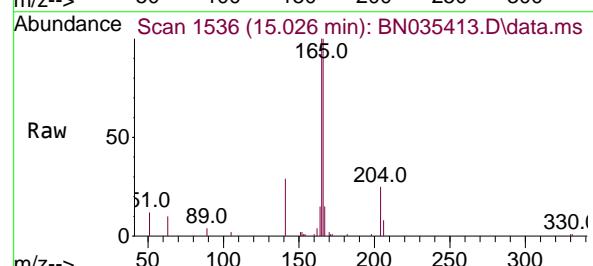
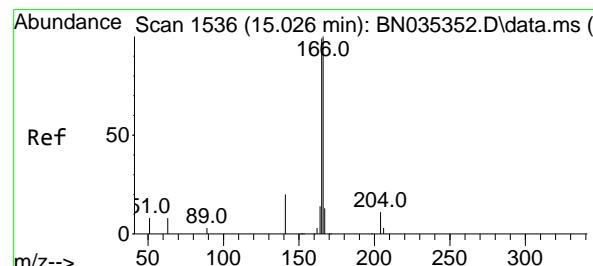
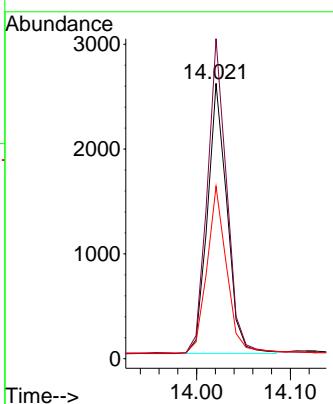
Tgt Ion:154 Resp: 3732

Ion Ratio Lower Upper

154 100

153 117.7 92.6 139.0

152 62.7 49.0 73.6



#18

Fluorene

Concen: 0.395 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

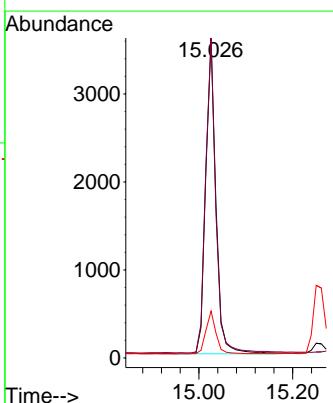
Tgt Ion:166 Resp: 5390

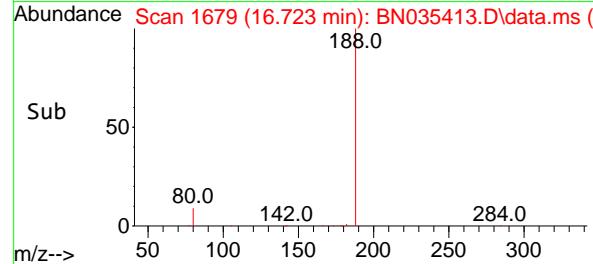
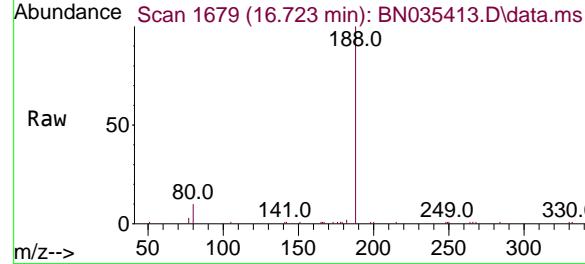
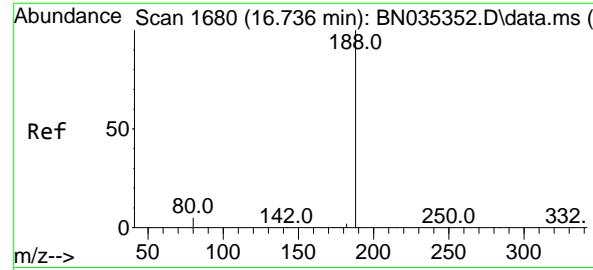
Ion Ratio Lower Upper

166 100

165 99.3 79.7 119.5

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

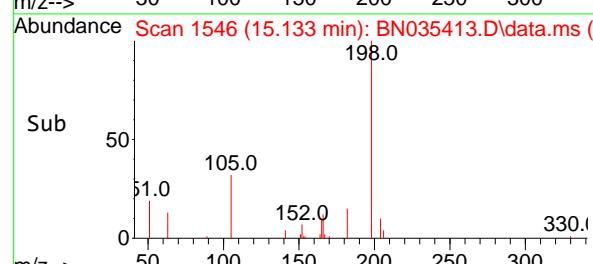
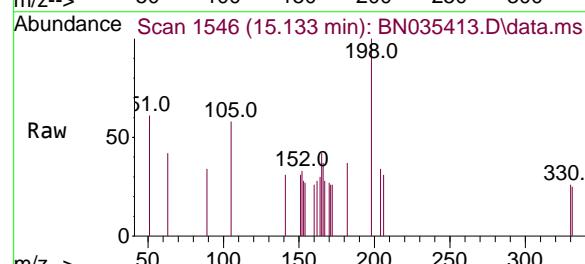
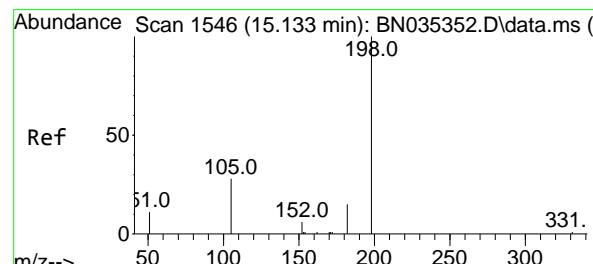
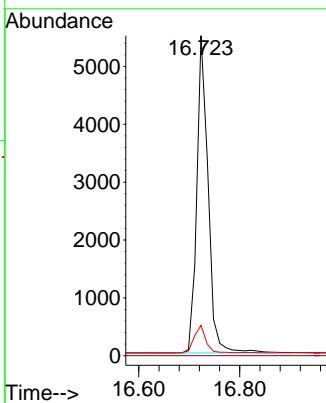
Tgt Ion:188 Resp: 8599

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.358 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

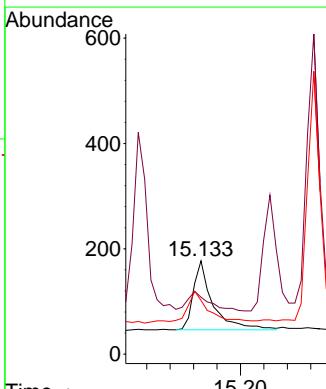
Tgt Ion:198 Resp: 303

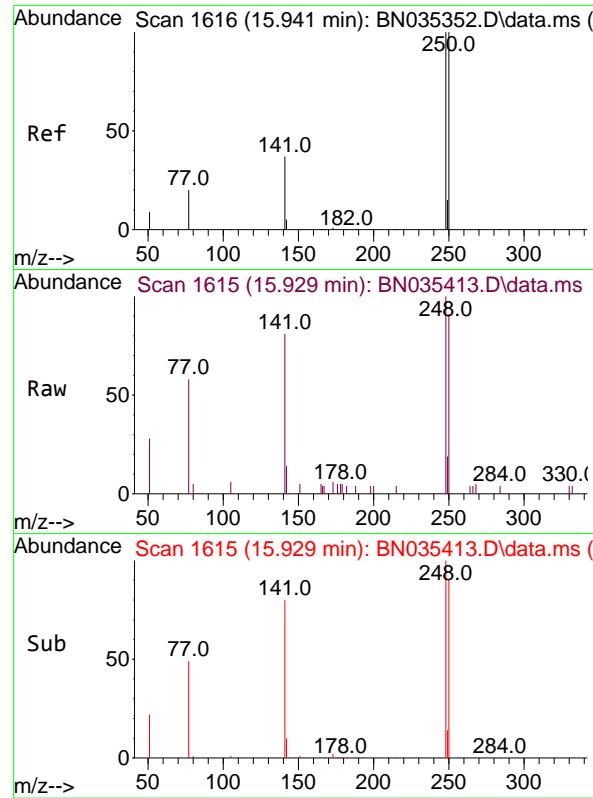
Ion Ratio Lower Upper

198 100

51 61.0 46.5 69.7

105 57.6 45.3 67.9

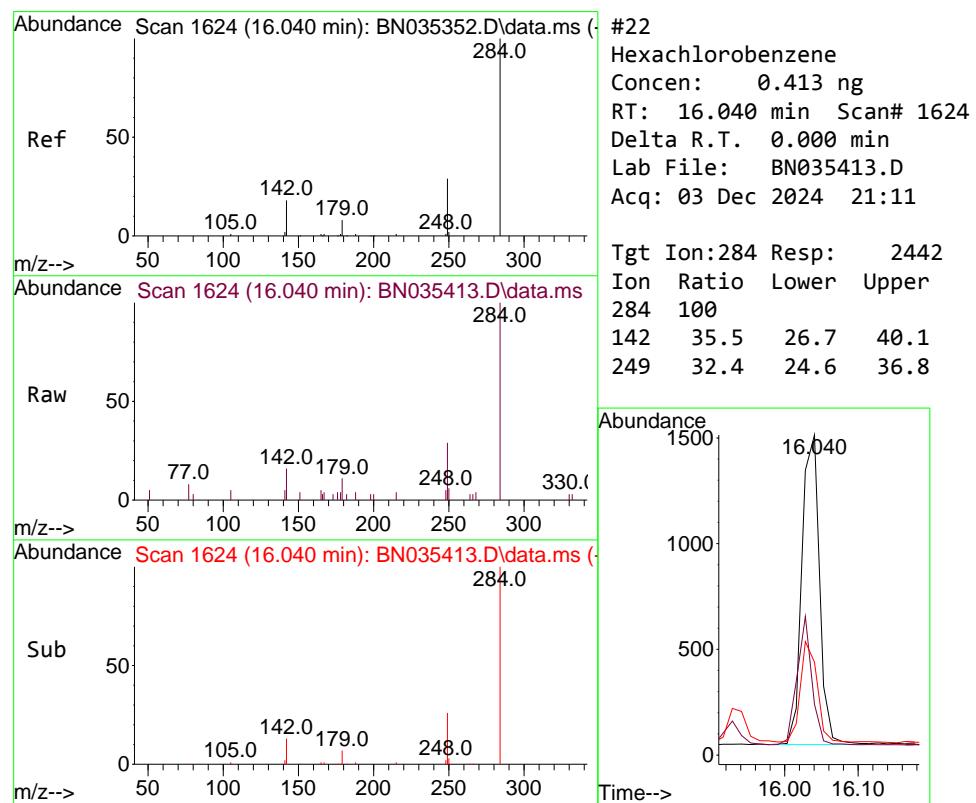
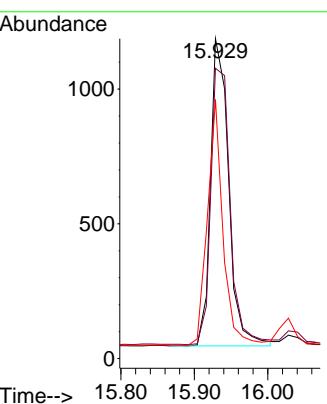




#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

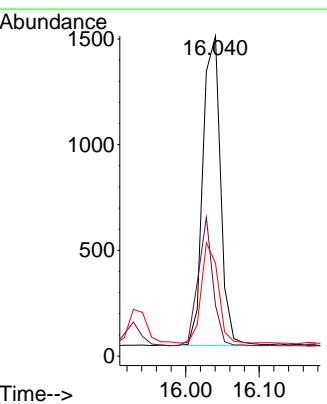
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

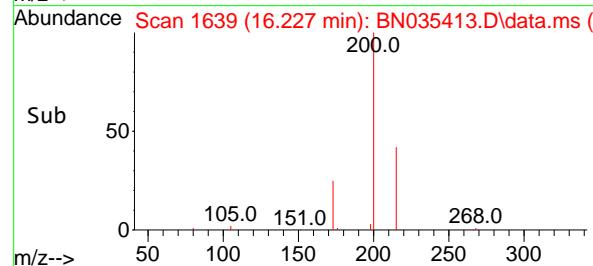
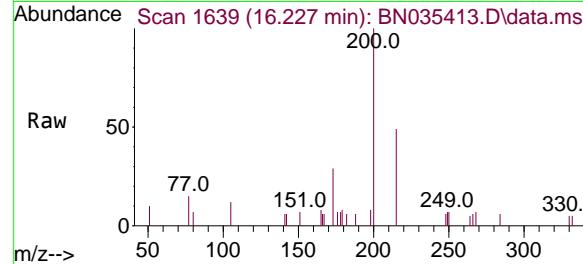
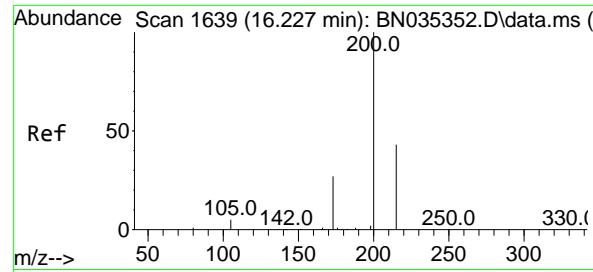
Tgt Ion:248 Resp: 1954
Ion Ratio Lower Upper
248 100
250 90.7 80.6 120.8
141 81.0 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.413 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:284 Resp: 2442
Ion Ratio Lower Upper
284 100
142 35.5 26.7 40.1
249 32.4 24.6 36.8

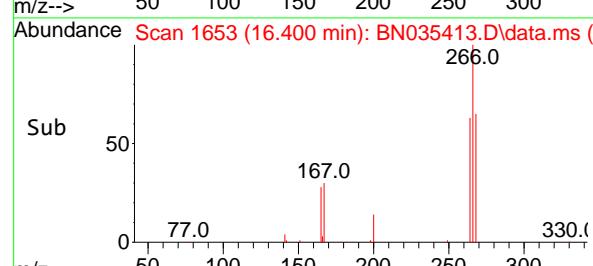
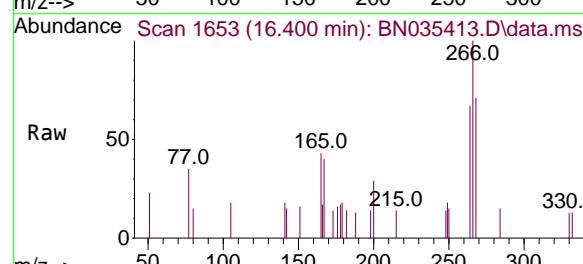
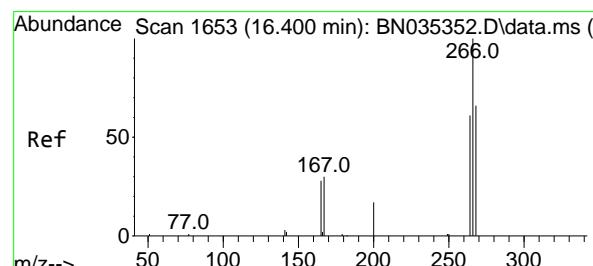
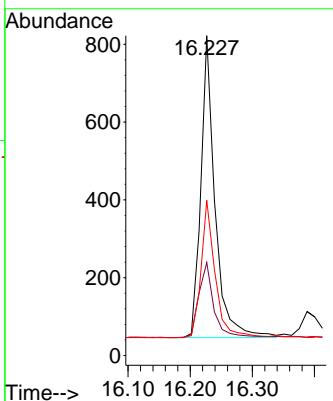




#23
Atrazine
Concen: 0.344 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

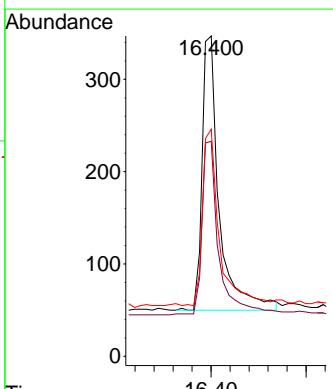
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

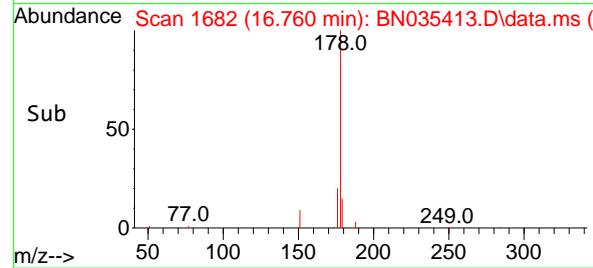
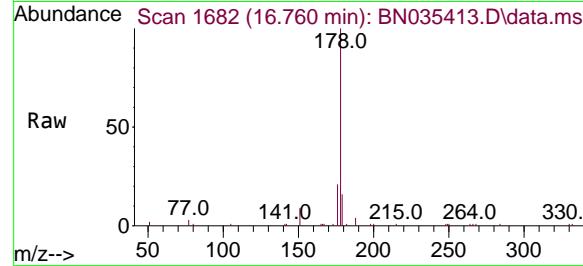
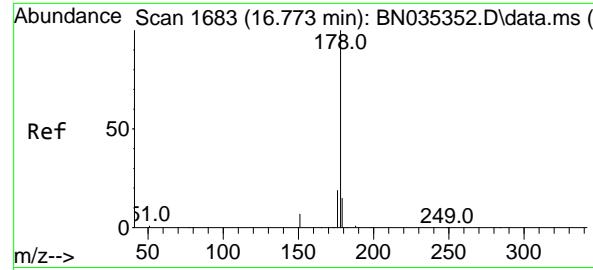
Tgt Ion:200 Resp: 1233
Ion Ratio Lower Upper
200 100
173 29.1 24.1 36.1
215 48.5 36.9 55.3



#24
Pentachlorophenol
Concen: 0.289 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:266 Resp: 742
Ion Ratio Lower Upper
266 100
264 62.0 42.3 63.5
268 63.5 43.3 64.9





#25

Phenanthrene

Concen: 0.390 ng

RT: 16.760 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

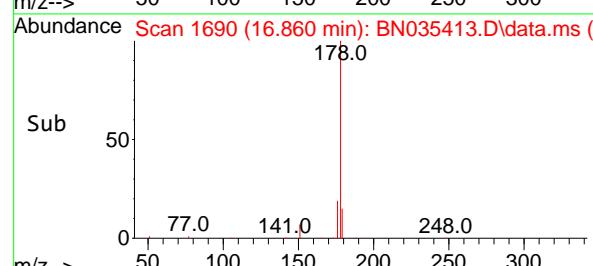
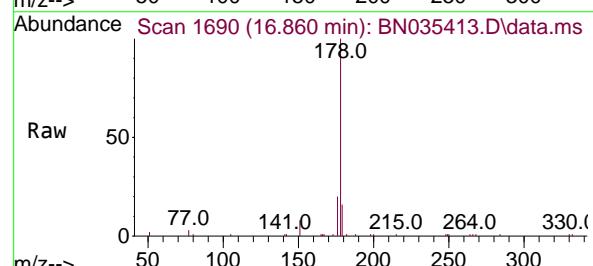
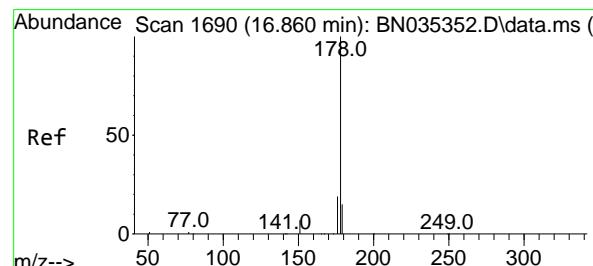
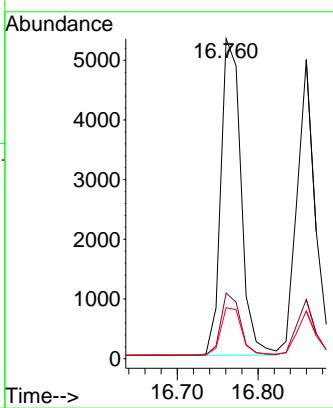
Tgt Ion:178 Resp: 9217

Ion Ratio Lower Upper

178 100

176 19.1 15.4 23.2

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.373 ng

RT: 16.860 min Scan# 1690

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

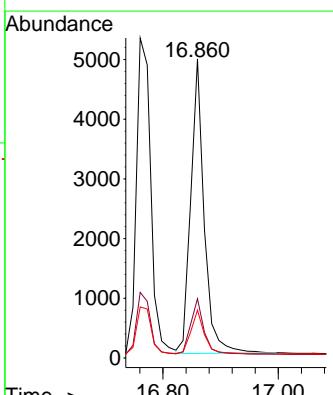
Tgt Ion:178 Resp: 7974

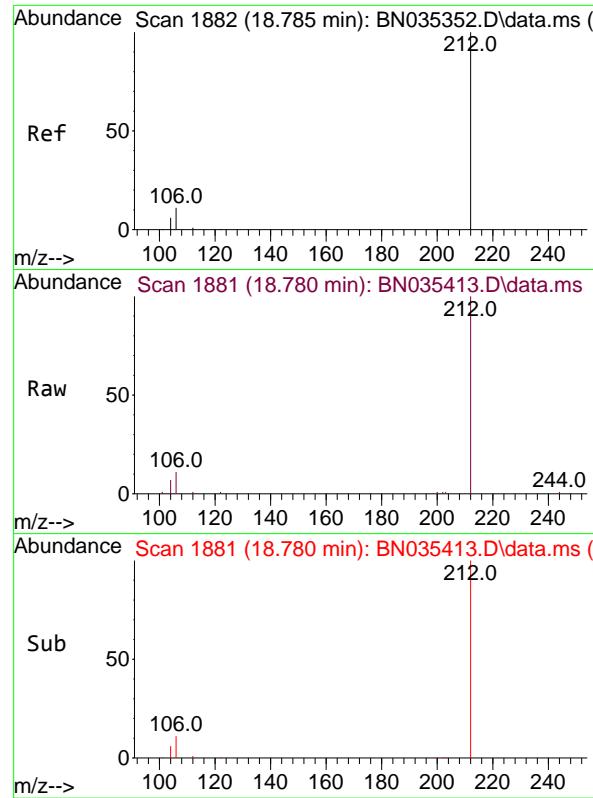
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.3 12.6 18.8

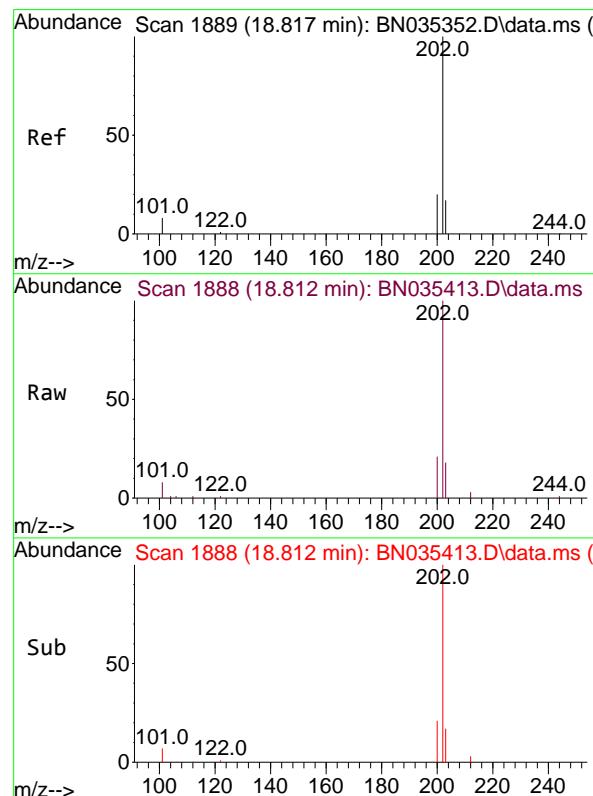
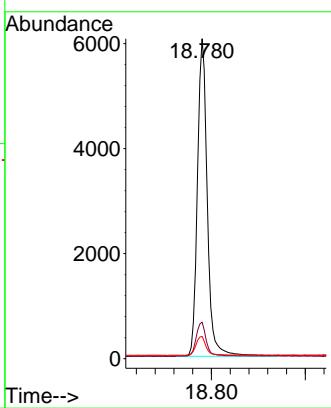




#27
 Fluoranthene-d10
 Concen: 0.361 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

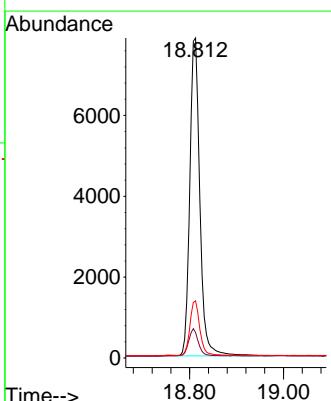
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

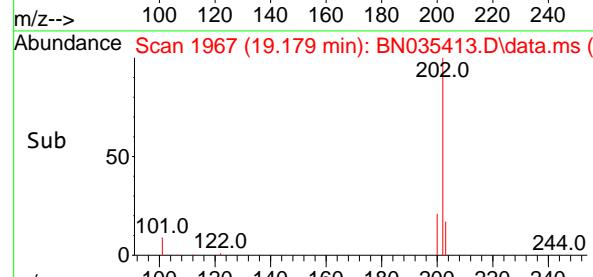
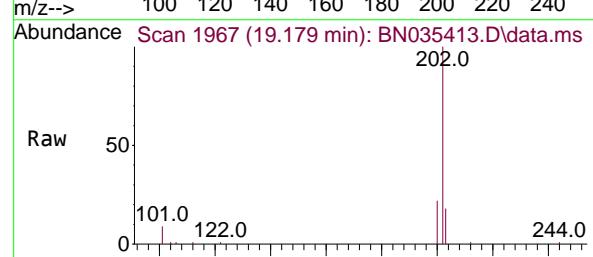
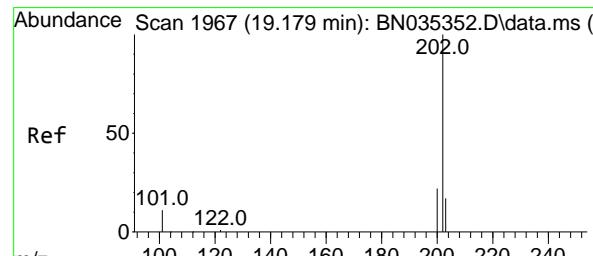
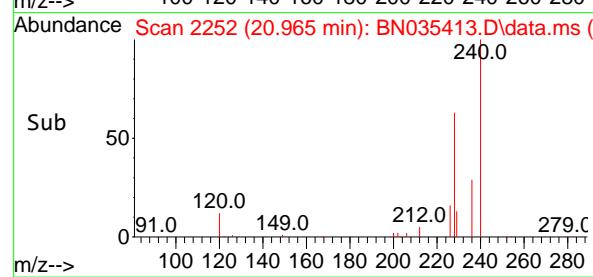
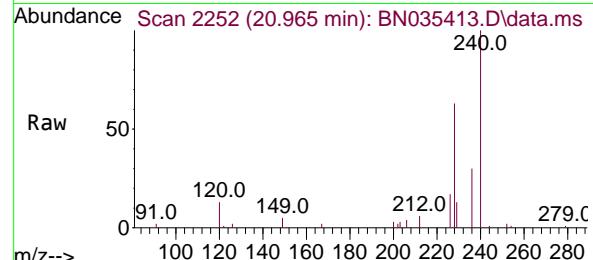
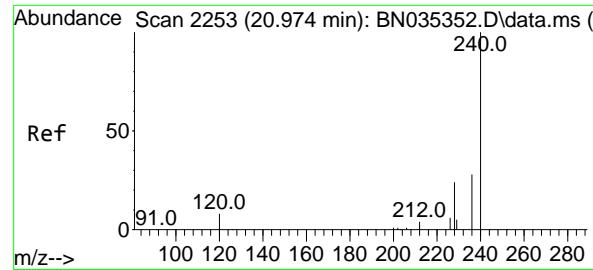
Tgt Ion:212 Resp: 8797
 Ion Ratio Lower Upper
 212 100
 106 10.7 9.2 13.8
 104 6.2 5.3 7.9



#28
 Fluoranthene
 Concen: 0.368 ng
 RT: 18.812 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11723
 Ion Ratio Lower Upper
 202 100
 101 8.5 7.4 11.0
 203 16.8 13.7 20.5





#29

Chrysene-d₁₂

Concen: 0.400 ng

RT: 20.965 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

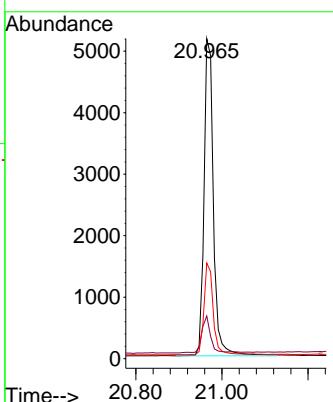
Tgt Ion:240 Resp: 7834

Ion Ratio Lower Upper

240 100

120 13.4 7.9 11.9#

236 29.9 22.9 34.3



#30

Pyrene

Concen: 0.410 ng

RT: 19.179 min Scan# 1967

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

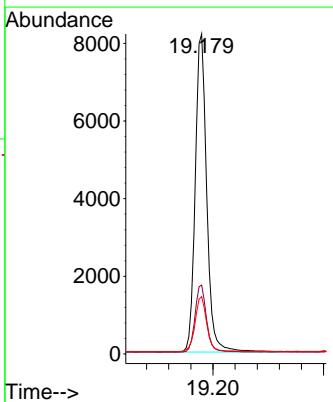
Tgt Ion:202 Resp: 11845

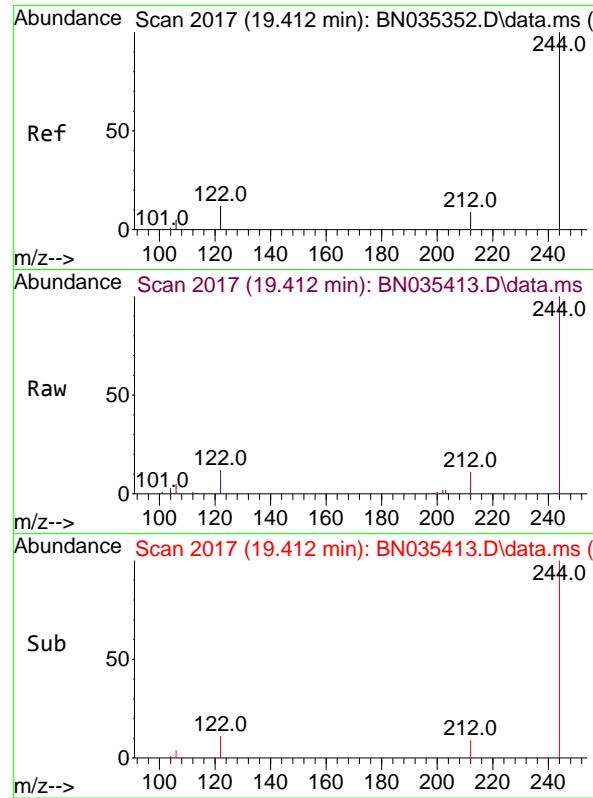
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.3 21.5

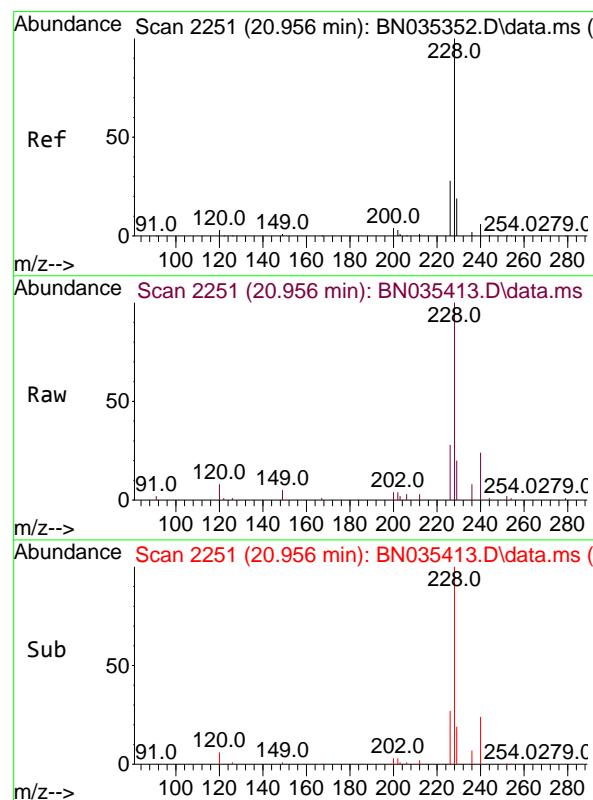
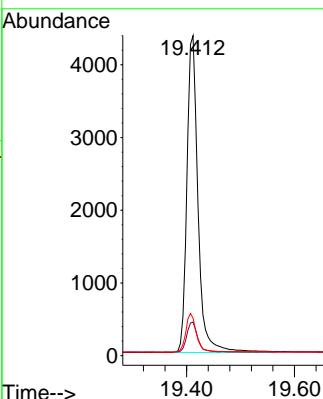




#31
 Terphenyl-d14
 Concen: 0.403 ng
 RT: 19.412 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

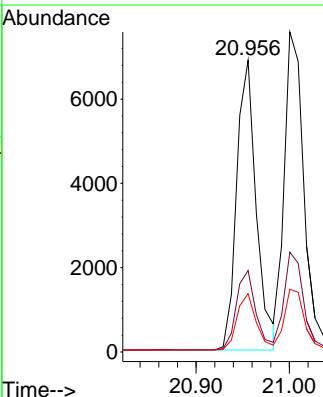
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

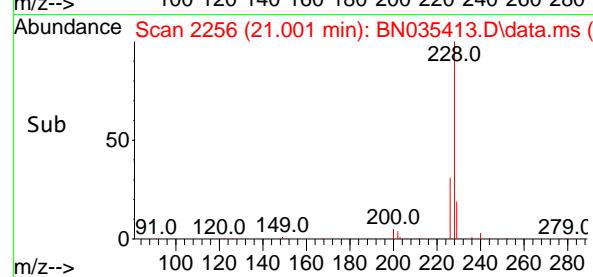
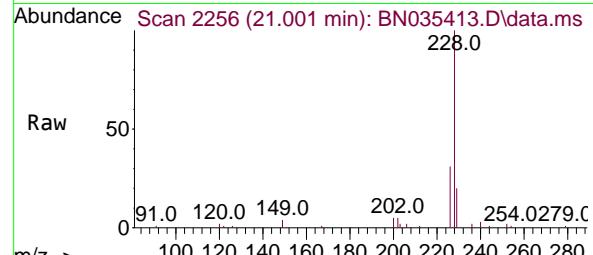
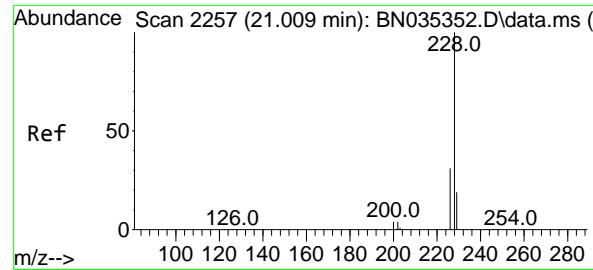
Tgt Ion:244 Resp: 6230
 Ion Ratio Lower Upper
 244 100
 212 10.5 8.1 12.1
 122 11.8 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.366 ng
 RT: 20.956 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:228 Resp: 10025
 Ion Ratio Lower Upper
 228 100
 226 27.9 22.5 33.7
 229 19.9 15.8 23.8





#33

Chrysene

Concen: 0.401 ng

RT: 21.001 min Scan# 2

Delta R.T. -0.009 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

Instrument :

BNA_N

ClientSampleId :

STDCCC0.4EC

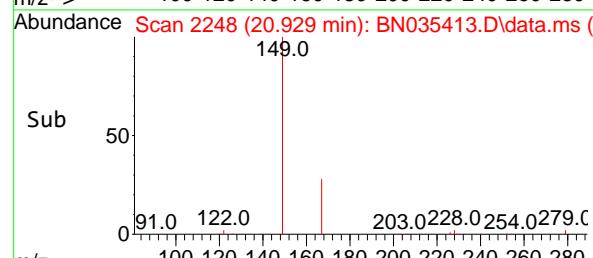
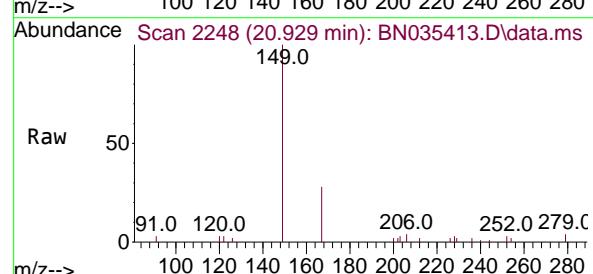
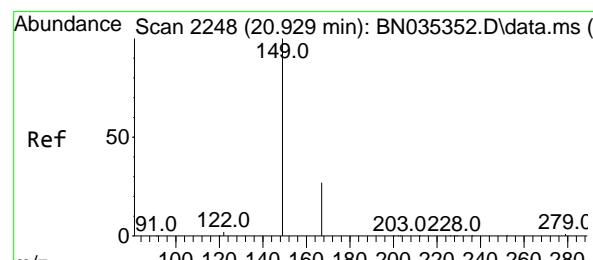
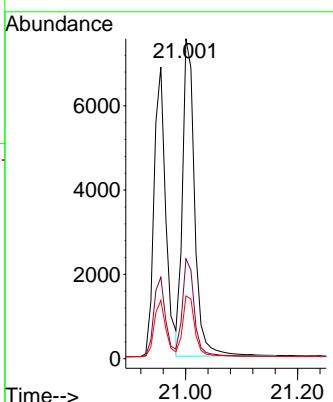
Tgt Ion:228 Resp: 11323

Ion Ratio Lower Upper

228 100

226 31.2 24.6 37.0

229 19.6 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

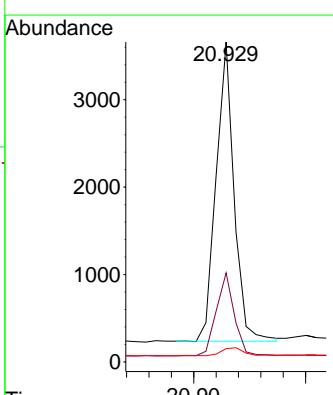
Tgt Ion:149 Resp: 3811

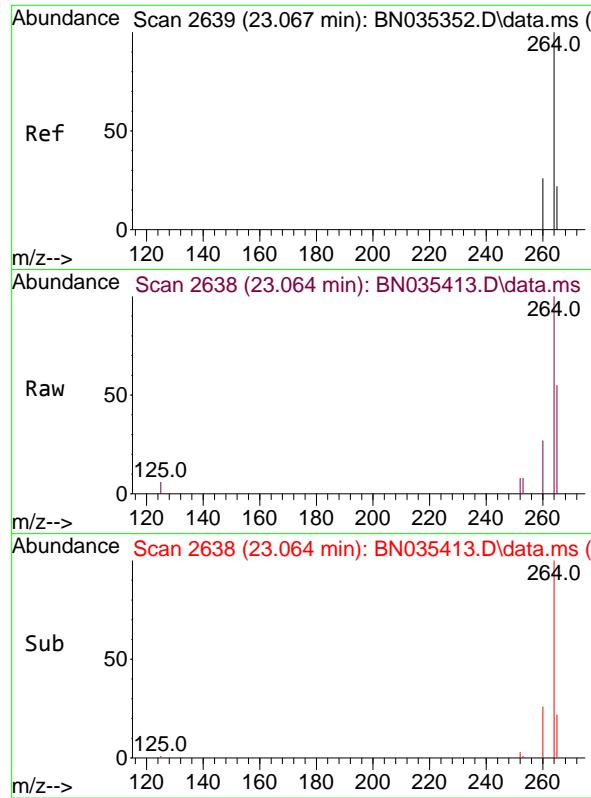
Ion Ratio Lower Upper

149 100

167 28.4 22.2 33.4

279 3.3 2.7 4.1

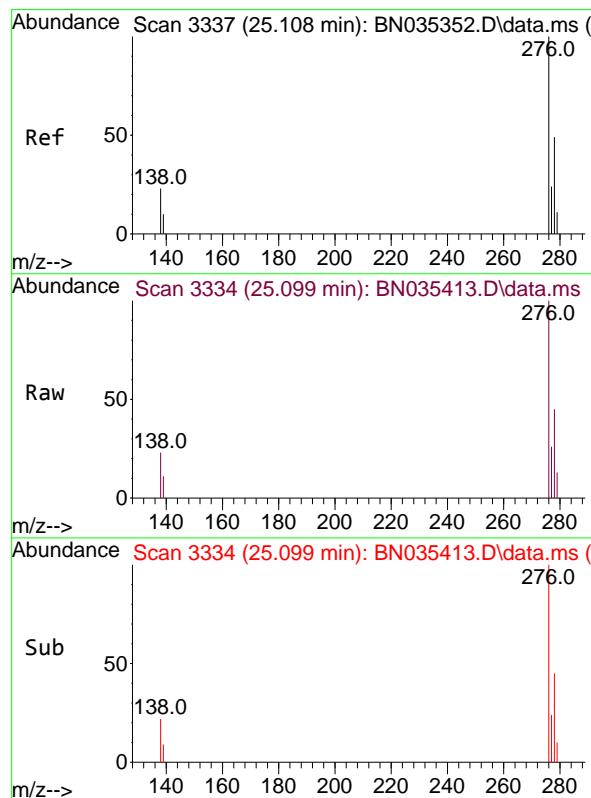
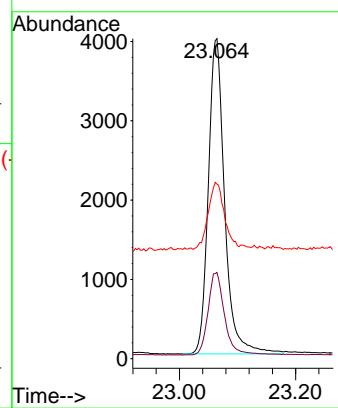




#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.064 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

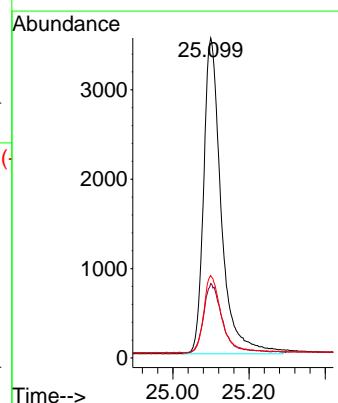
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

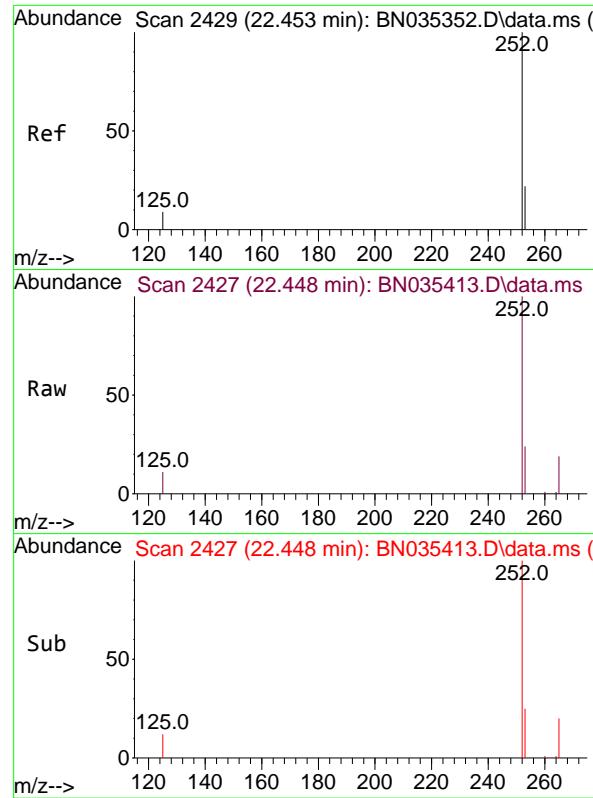
Tgt Ion:264 Resp: 7769
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.2
265 54.5 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.374 ng
RT: 25.099 min Scan# 3334
Delta R.T. -0.009 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352
Ion Ratio Lower Upper
276 100
138 22.8 19.4 29.0
277 24.4 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.456 ng

RT: 22.448 min Scan# 2

Instrument :

BNA_N

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

ClientSampleId :

SSTDCCC0.4EC

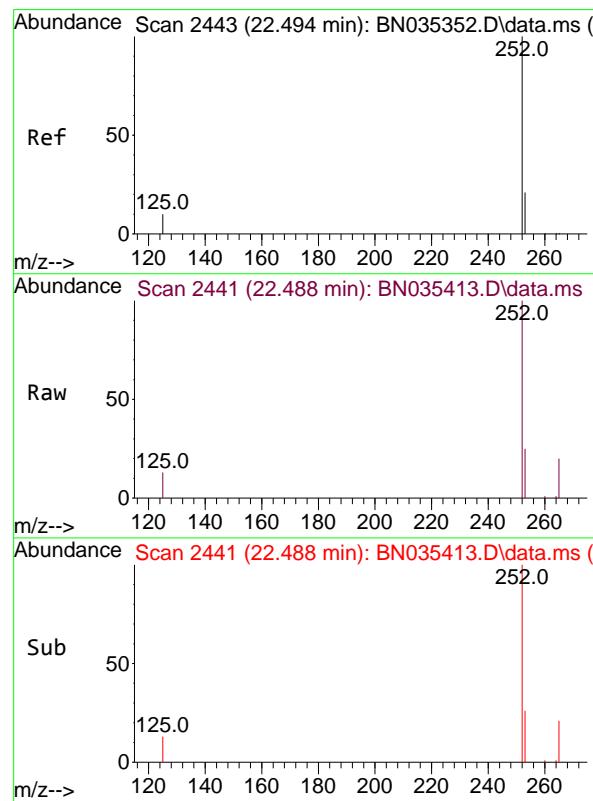
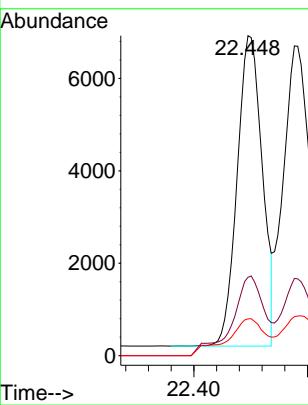
Tgt Ion:252 Resp: 12967

Ion Ratio Lower Upper

252 100

253 24.5 19.6 29.4

125 11.5 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.488 min Scan# 2441

Delta R.T. -0.006 min

Lab File: BN035413.D

Acq: 03 Dec 2024 21:11

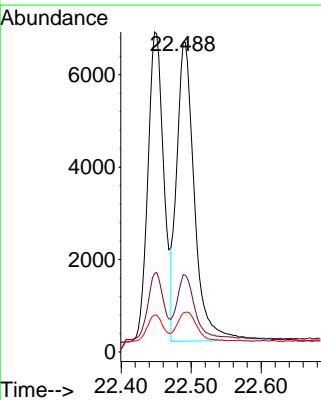
Tgt Ion:252 Resp: 11373

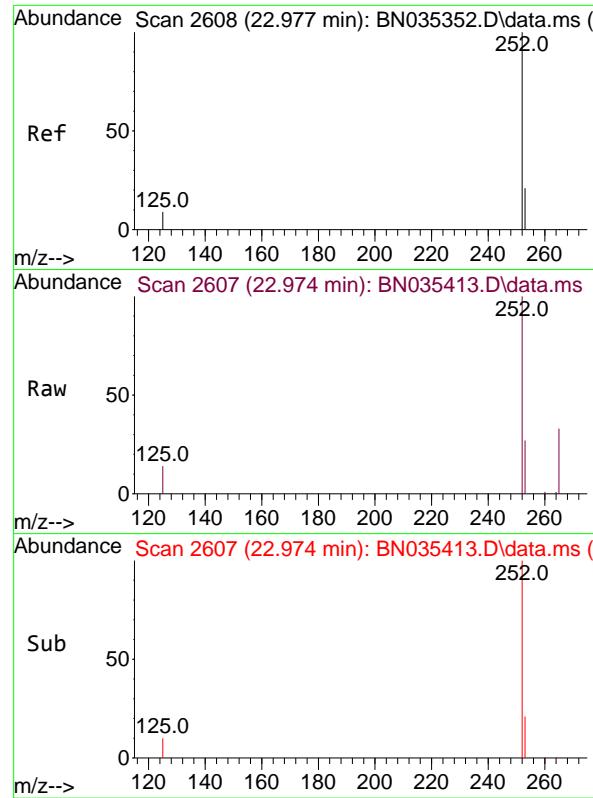
Ion Ratio Lower Upper

252 100

253 24.9 19.5 29.3

125 12.6 10.2 15.4

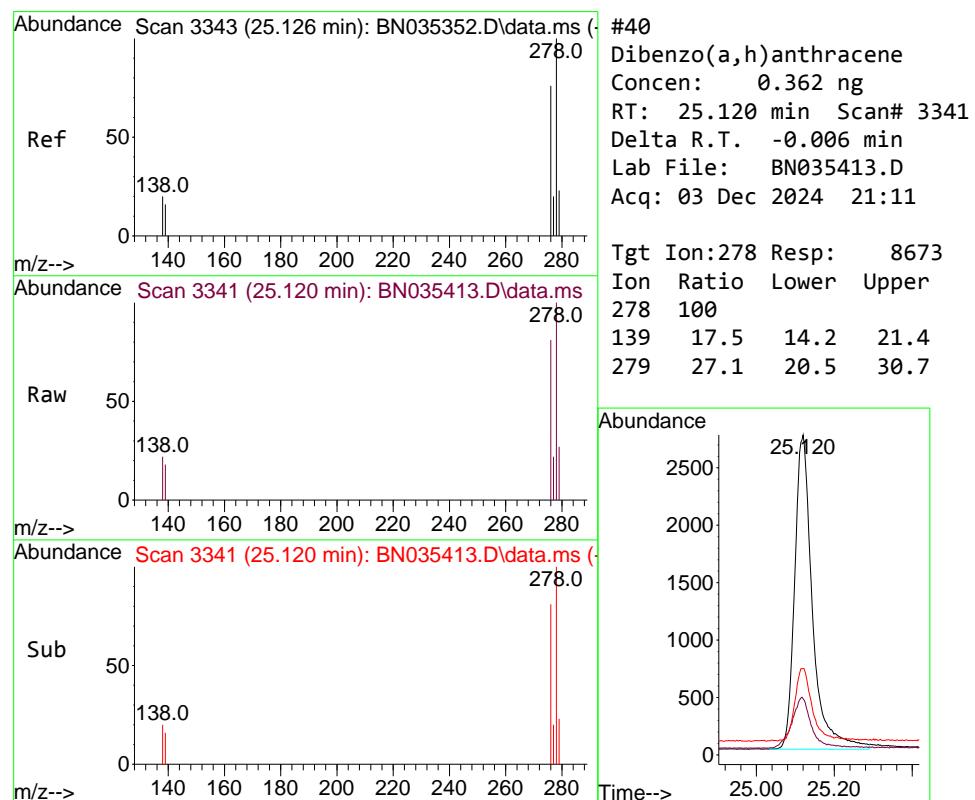
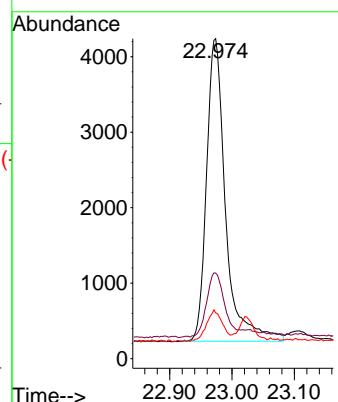




#39
 Benzo(a)pyrene
 Concen: 0.363 ng
 RT: 22.974 min Scan# 2
 Delta R.T. -0.003 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

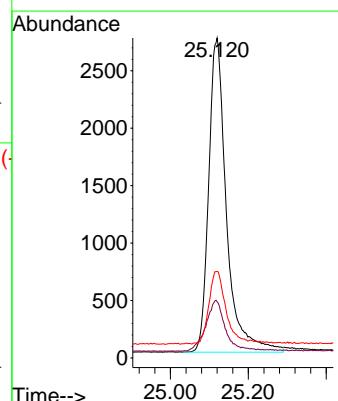
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

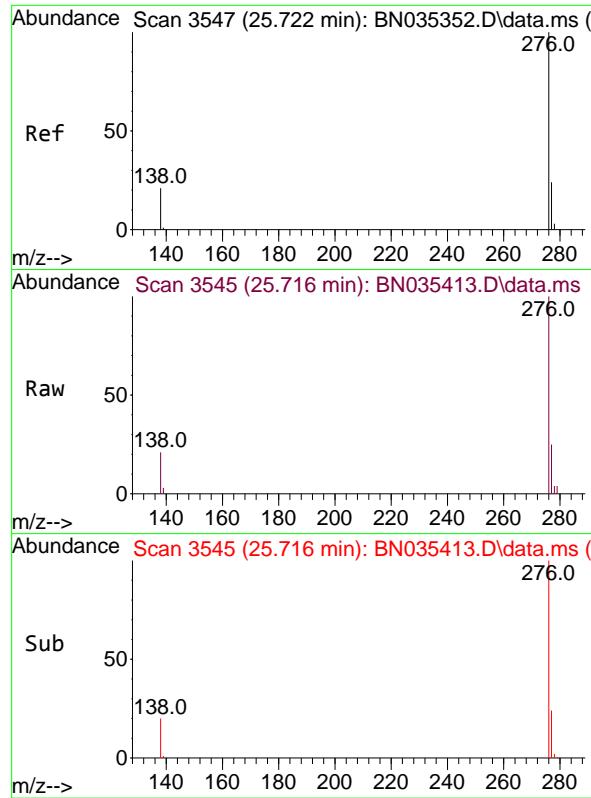
Tgt Ion:252 Resp: 8498
 Ion Ratio Lower Upper
 252 100
 253 26.8 20.2 30.4
 125 14.3 10.9 16.3



#40
 Dibenzo(a,h)anthracene
 Concen: 0.362 ng
 RT: 25.120 min Scan# 3341
 Delta R.T. -0.006 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:278 Resp: 8673
 Ion Ratio Lower Upper
 278 100
 139 17.5 14.2 21.4
 279 27.1 20.5 30.7

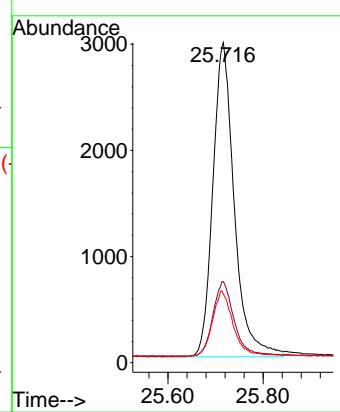




#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 25.716 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

Tgt Ion:276 Resp: 9224
Ion Ratio Lower Upper
276 100
277 25.4 19.9 29.9
138 21.5 17.8 26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : 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	93	0.00
2	1,4-Dioxane	0.382	0.384	-0.5	95	0.00
3	n-Nitrosodimethylamine	0.319	0.294	7.8	84	0.00
4 S	2-Fluorophenol	1.001	0.907	9.4	83	0.00
5 S	Phenol-d6	1.204	1.095	9.1	85	0.00
6	bis(2-Chloroethyl)ether	1.012	0.951	6.0	89	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
8 S	Nitrobenzene-d5	0.244	0.240	1.6	95	0.00
9	Naphthalene	1.055	1.055	0.0	93	-0.01
10	Hexachlorobutadiene	0.243	0.267	-9.9	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.626	0.609	2.7	91	0.00
12	2-Methylnaphthalene	0.755	0.734	2.8	92	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.284	0.256	9.9	90	0.00
15 S	2-Fluorobiphenyl	1.512	1.547	-2.3	92	0.00
16	Acenaphthylene	1.680	1.601	4.7	90	-0.01
17	Acenaphthene	1.115	1.092	2.1	90	-0.01
18	Fluorene	1.596	1.577	1.2	92	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	91	-0.01
20	4,6-Dinitro-2-methylphenol	0.039	0.035	10.3	90	0.00
21	4-Bromophenyl-phenylether	0.234	0.227	3.0	91	-0.01
22	Hexachlorobenzene	0.275	0.284	-3.3	94	0.00
23	Atrazine	0.167	0.143	14.4	84	0.00
24	Pentachlorophenol	0.120	0.086	28.3#	82	0.00
25	Phenanthrene	1.099	1.072	2.5	91	-0.01
26	Anthracene	0.994	0.927	6.7	89	0.00
27 SURR	Fluoranthene-d10	1.134	1.023	9.8	86	0.00
28	Fluoranthene	1.481	1.363	8.0	87	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	82	0.00
30	Pyrene	1.477	1.512	-2.4	84	0.00
31 S	Terphenyl-d14	0.789	0.795	-0.8	83	0.00
32	Benzo(a)anthracene	1.399	1.280	8.5	78	0.00
33	Chrysene	1.443	1.445	-0.1	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.486	12.1	78	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.564	1.461	6.6	68	0.00
37	Benzo(b)fluoranthene	1.463	1.669	-14.1	91	0.00
38	Benzo(k)fluoranthene	1.440	1.464	-1.7	75	0.00
39 C	Benzo(a)pyrene	1.205	1.094	9.2	68	0.00
40	Dibenzo(a,h)anthracene	1.234	1.116	9.6	67	0.00
41	Benzo(g,h,i)perylene	1.289	1.187	7.9	68	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : 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	93	0.00
2	1,4-Dioxane	0.400	0.401	-0.3	95	0.00
3	n-Nitrosodimethylamine	0.400	0.370	7.5	84	0.00
4 S	2-Fluorophenol	0.400	0.362	9.5	83	0.00
5 S	Phenol-d6	0.400	0.364	9.0	85	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	89	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	93	0.00
8 S	Nitrobenzene-d5	0.400	0.393	1.8	95	0.00
9	Naphthalene	0.400	0.400	0.0	93	-0.01
10	Hexachlorobutadiene	0.400	0.438	-9.5	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	91	0.00
12	2-Methylnaphthalene	0.400	0.389	2.8	92	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	90	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.360	10.0	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.409	-2.2	92	0.00
16	Acenaphthylene	0.400	0.381	4.8	90	-0.01
17	Acenaphthene	0.400	0.392	2.0	90	-0.01
18	Fluorene	0.400	0.395	1.3	92	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	91	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.358	10.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	91	-0.01
22	Hexachlorobenzene	0.400	0.413	-3.2	94	0.00
23	Atrazine	0.400	0.344	14.0	84	0.00
24	Pentachlorophenol	0.400	0.289	27.8#	82	0.00
25	Phenanthrene	0.400	0.390	2.5	91	-0.01
26	Anthracene	0.400	0.373	6.8	89	0.00
27 SURR	Fluoranthene-d10	0.400	0.361	9.8	86	0.00
28	Fluoranthene	0.400	0.368	8.0	87	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	82	0.00
30	Pyrene	0.400	0.410	-2.5	84	0.00
31 S	Terphenyl-d14	0.400	0.403	-0.8	83	0.00
32	Benzo(a)anthracene	0.400	0.366	8.5	78	0.00
33	Chrysene	0.400	0.401	-0.3	82	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.352	12.0	78	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.374	6.5	68	0.00
37	Benzo(b)fluoranthene	0.400	0.456	-14.0	91	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	75	0.00
39 C	Benzo(a)pyrene	0.400	0.363	9.3	68	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	67	0.00
41	Benzo(g,h,i)perylene	0.400	0.368	8.0	68	0.00

(#) = Out of Range

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



QC SAMPLE

DATA

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

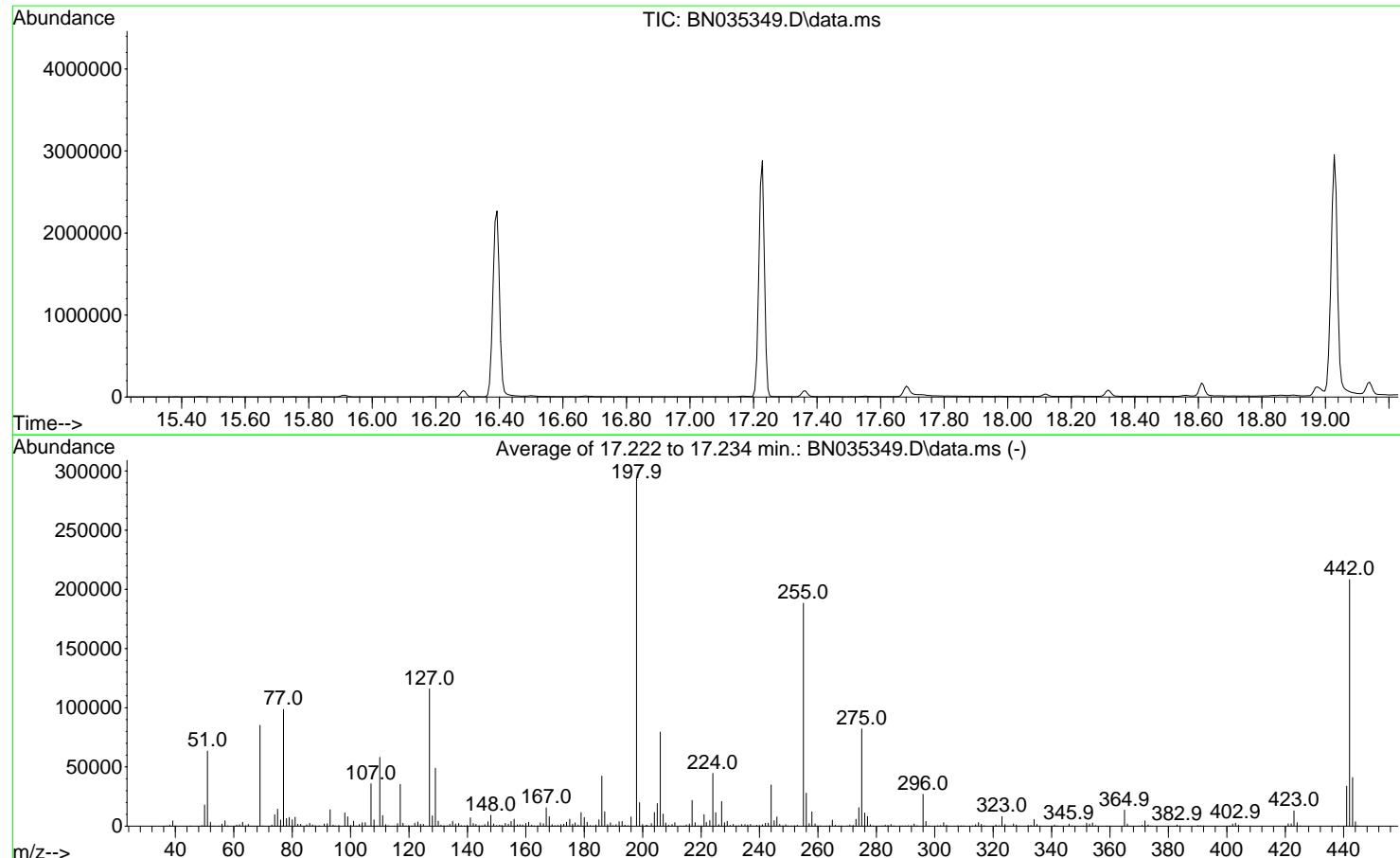
Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

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

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

Abundance

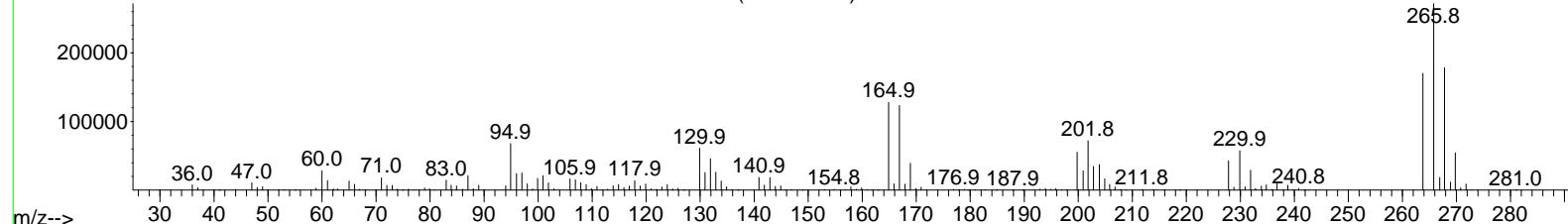
Ion 265.70 (265.40 to 266.40): BN035349.D\data.ms
 Ion 268.00 (267.70 to 268.70): BN035349.D\data.ms
 Ion 264.00 (263.70 to 264.70): BN035349.D\data.ms

16.392 miniling = 0.81

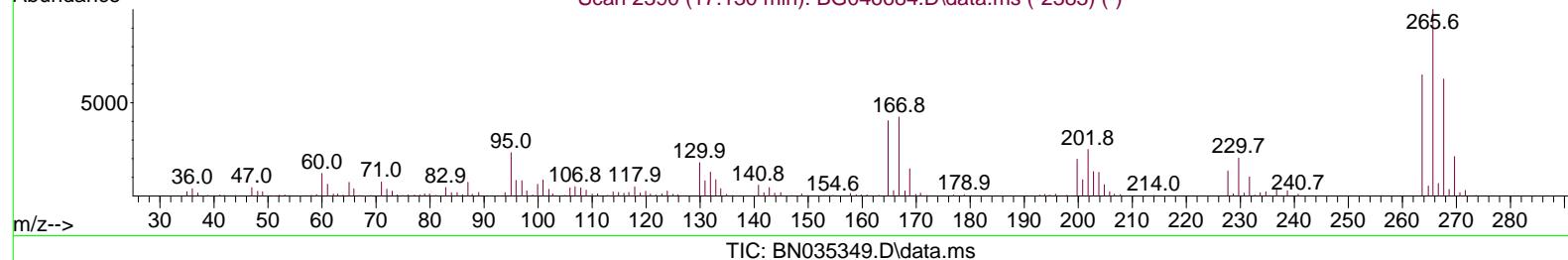
S E

Time--> 15.20 15.40 15.60 15.80 16.00 16.20 16.40 16.60 16.80 17.00 17.20 17.40 17.60

Scan 2296 (16.392 min): BN035349.D\data.ms



Scan 2390 (17.130 min): BG046684.D\data.ms (-2383) (-)



TIC: BN035349.D\data.ms

(70) Pentachlorophenol (C)

16.392min (0.000) 27794.31 ng

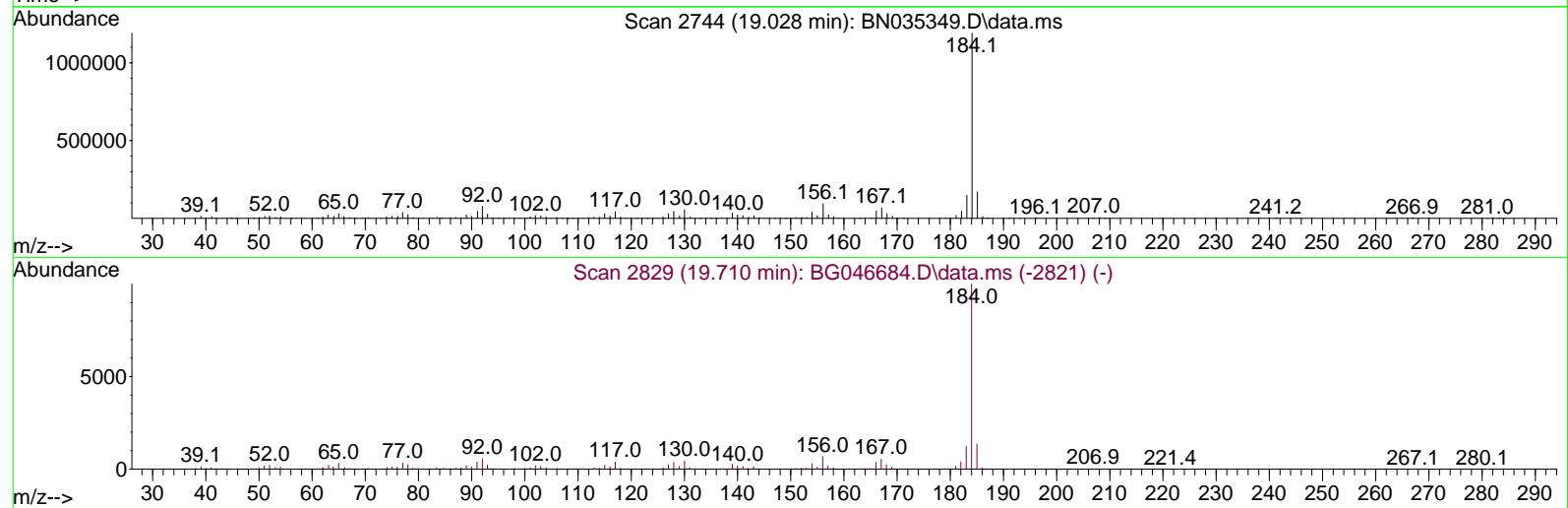
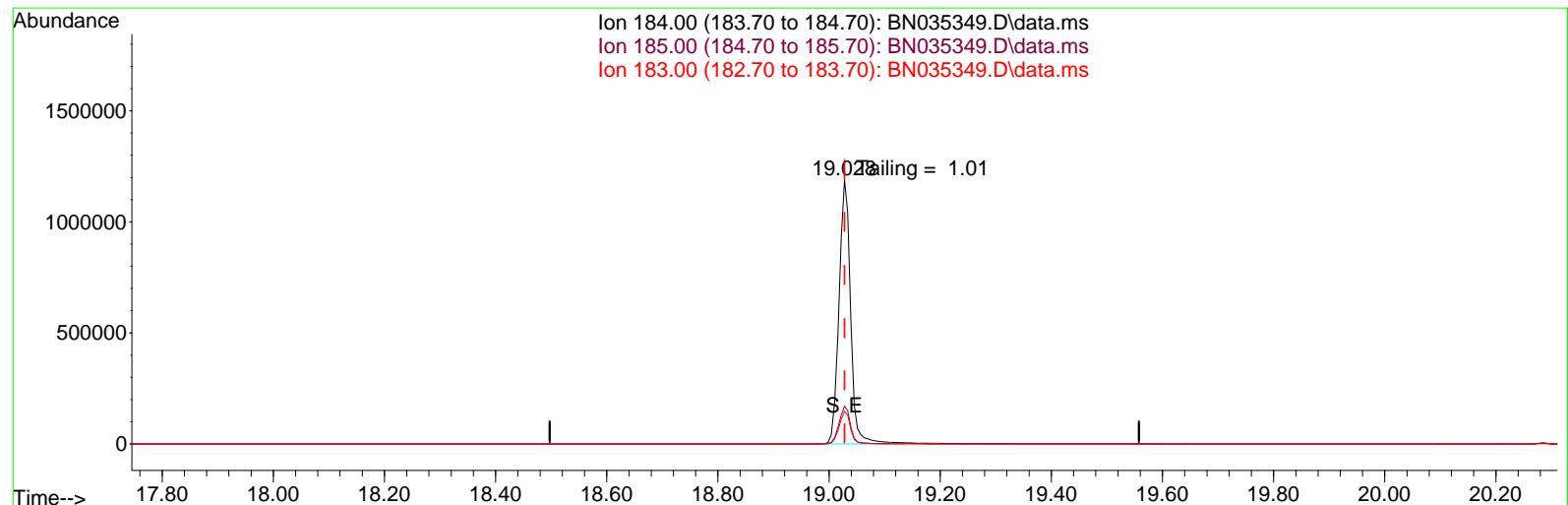
response 398074

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

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



(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

Instrument :
BNA_N
ClientSampleId :
DFTPP

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035405.D
 Acq On : 03 Dec 2024 15:56
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

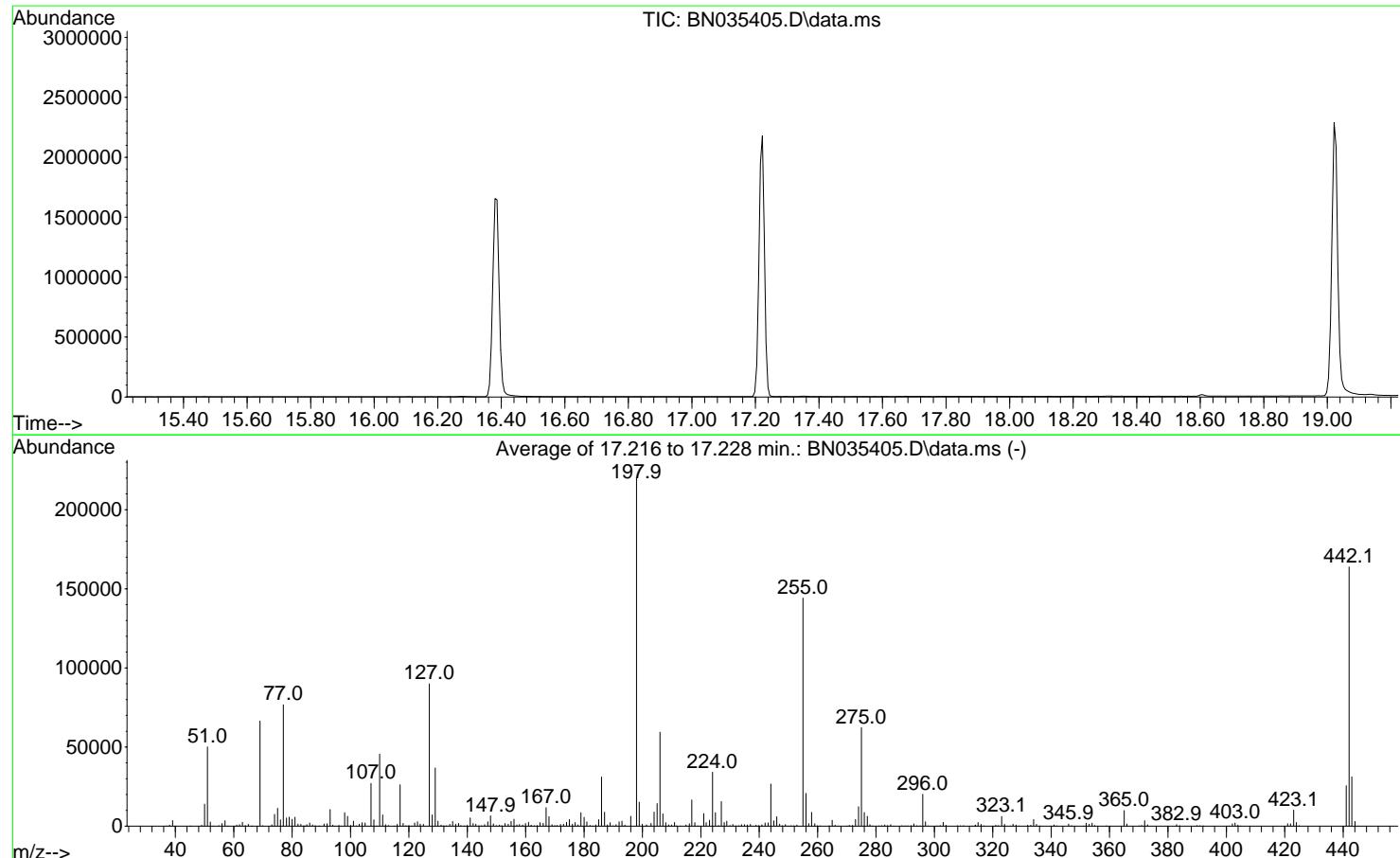
Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

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 2436, 2437, 2438; Background Corrected with Scan 2429

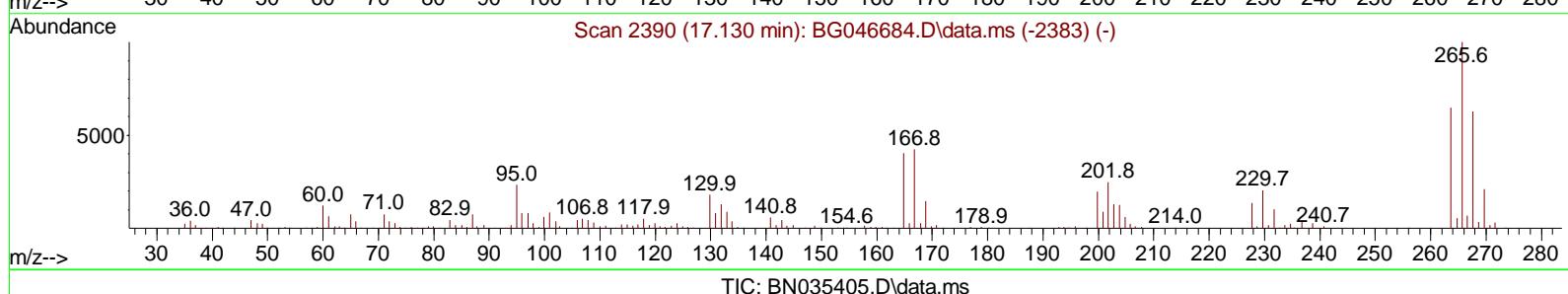
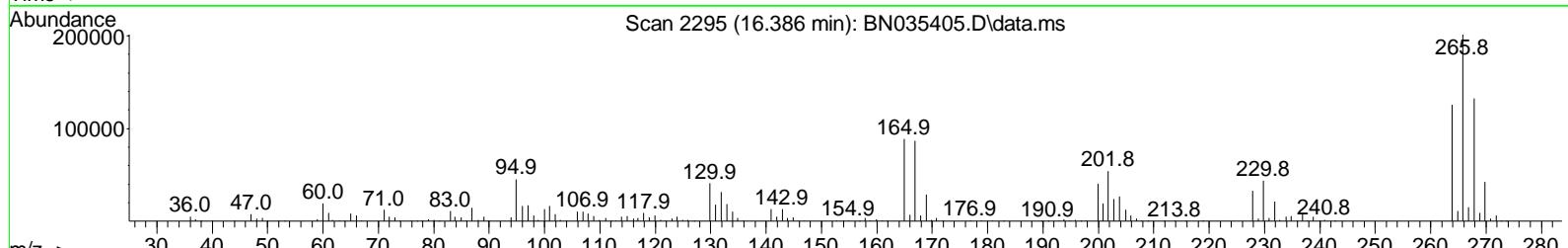
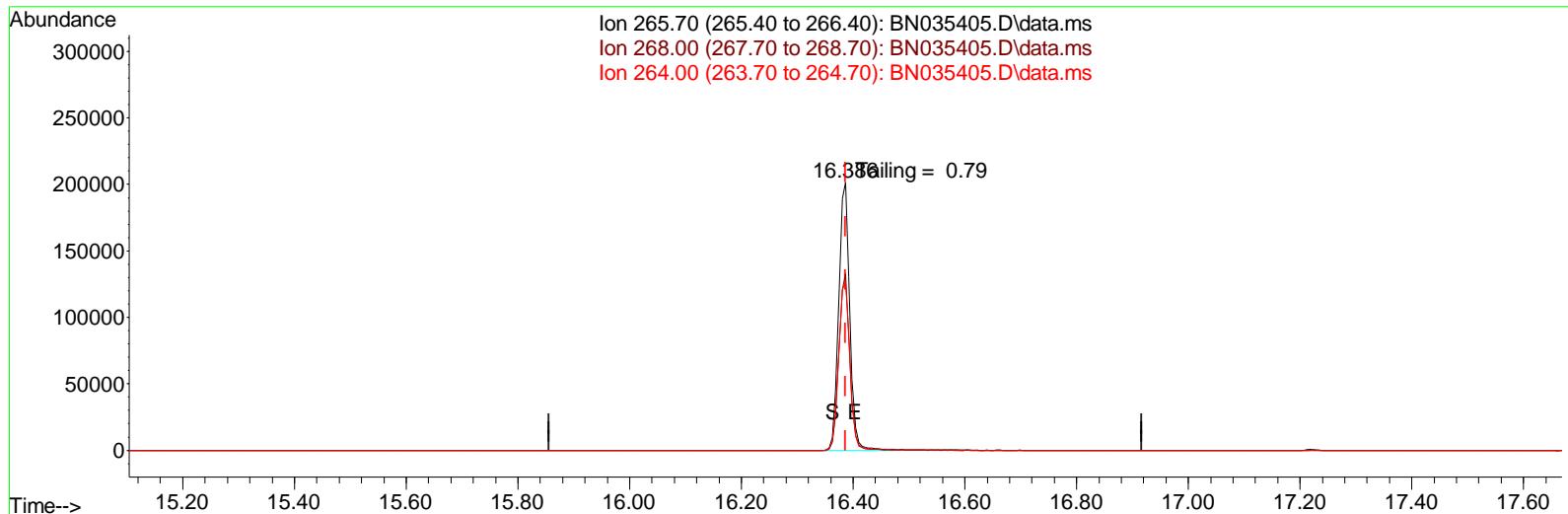
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	22.8	50112	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	30.2	66499	PASS
70	69	0.00	2	0.4	295	PASS
127	198	10	80	40.9	89949	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	220181	PASS
199	198	5	9	6.9	15167	PASS
275	198	10	60	28.3	62245	PASS
365	198	1	100	4.5	9919	PASS
441	198	0.01	100	11.6	25605	PASS
442	442	50	100	100.0	163819	PASS
443	442	15	24	19.0	31133	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035405.D
 Acq On : 03 Dec 2024 15:56
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Virtual : 1 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

Quant Time: Dec 03 23:08:33 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 03 23:08:29 2024
 Response via : Initial Calibration

Ion 265.70 (265.40 to 266.40): BN035405.D\data.ms
 Ion 268.00 (267.70 to 268.70): BN035405.D\data.ms
 Ion 264.00 (263.70 to 264.70): BN035405.D\data.ms



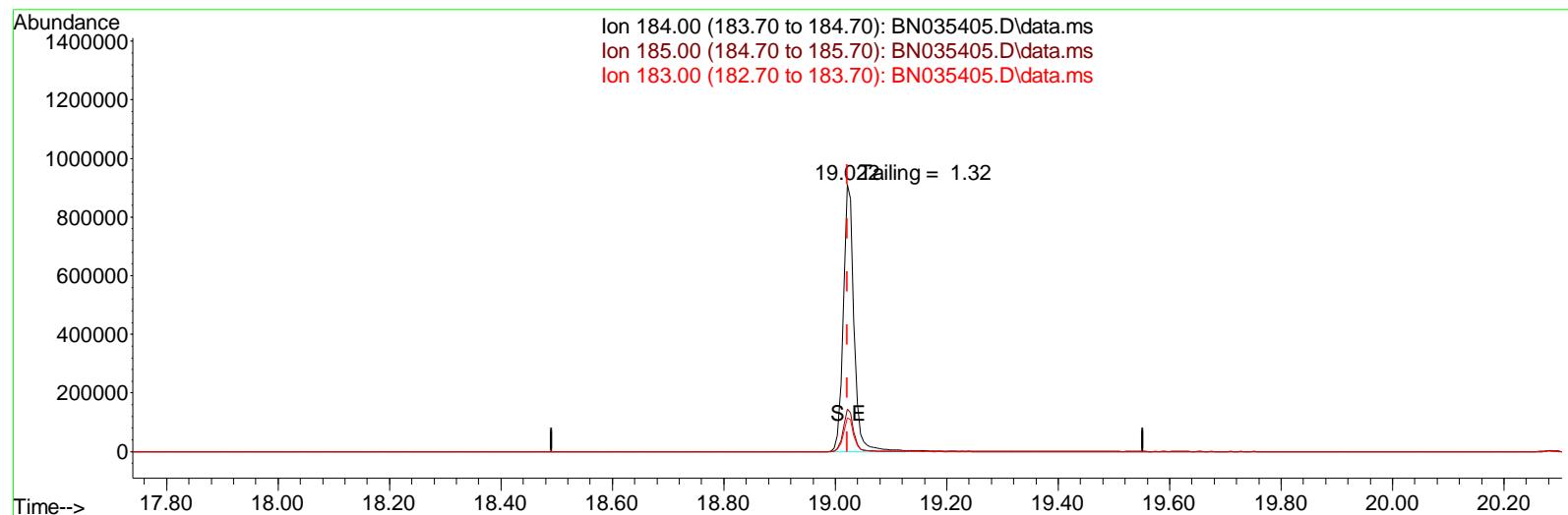
(70) Pentachlorophenol (C)		
16.386min (0.000) 30135.06 ng		
response	280007	
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.85
264.00	61.60	62.30
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035405.D
 Acq On : 03 Dec 2024 15:56
 Operator : RC/JU
 Sample : DFTPP
 Misc :
 ALS Vi al : 1 Sample Multiplier: 1

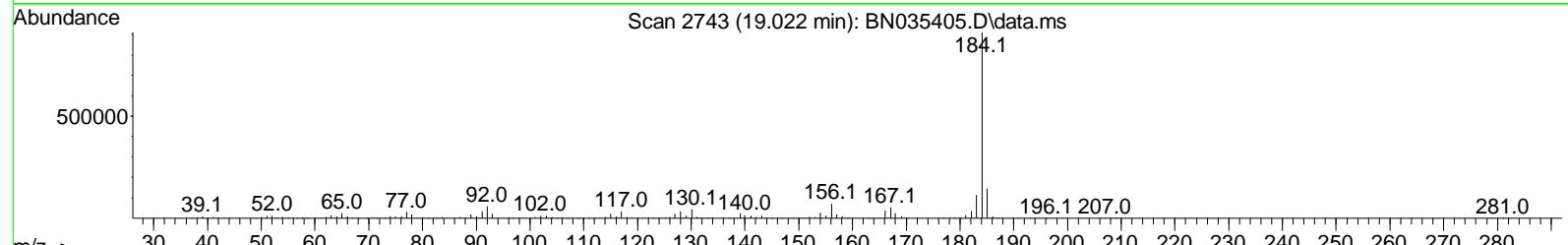
Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

Quant Time: Dec 03 23:08:33 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 03 23:08:29 2024
 Response via : Initial Calibration

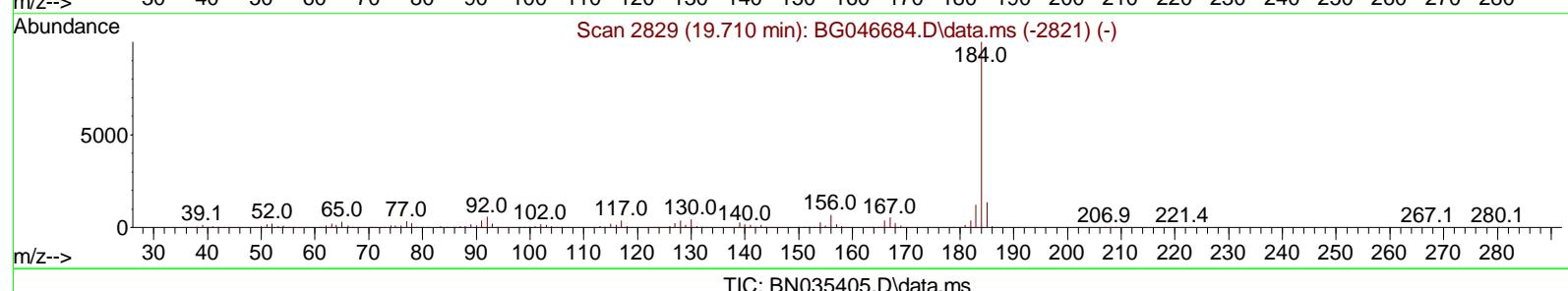
Ion 184.00 (183.70 to 184.70): BN035405.D\data.ms
 Ion 185.00 (184.70 to 185.70): BN035405.D\data.ms
 Ion 183.00 (182.70 to 183.70): BN035405.D\data.ms



Scan 2743 (19.022 min): BN035405.D\data.ms



Scan 2829 (19.710 min): BG046684.D\data.ms (-2821) (-)



TIC: BN035405.D\data.ms

(77) Benzidine

19.022min (0.000) 0.00 ng

response 1239645

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.96
183.00	13.20	12.61
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/4/2024	BNA_N	BN035405.D
Compound Name	Response	Retention Time
DDT	674620	20.286
DDD	16934	19.833
DDE	1155	19.322
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
18089	692709	2.61



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:	PB165348BL			SDG No.:	P5065
Lab Sample ID:	PB165348BL			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL			Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N			Level :	LOW
Injection Volume :	GPC Factor : 1.0			GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035407.D	1	12/03/24 12:30	12/03/24 17:37	PB165348

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	0.44		30 - 150		109%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		106%	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	1830	7.3				
1146-65-2	Naphthalene-d8	4530	10.052				
15067-26-2	Acenaphthene-d10	3260	13.967				
1517-22-2	Phenanthrene-d10	8120	16.735				
1719-03-5	Chrysene-d12	6940	20.983				
1520-96-3	Perylene-d12	6490	23.076				

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\BN120424\
 Data File : BN035407.D
 Acq On : 03 Dec 2024 17:37
 Operator : RC/JU
 Sample : PB165348BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BL

Quant Time: Dec 03 18:02:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

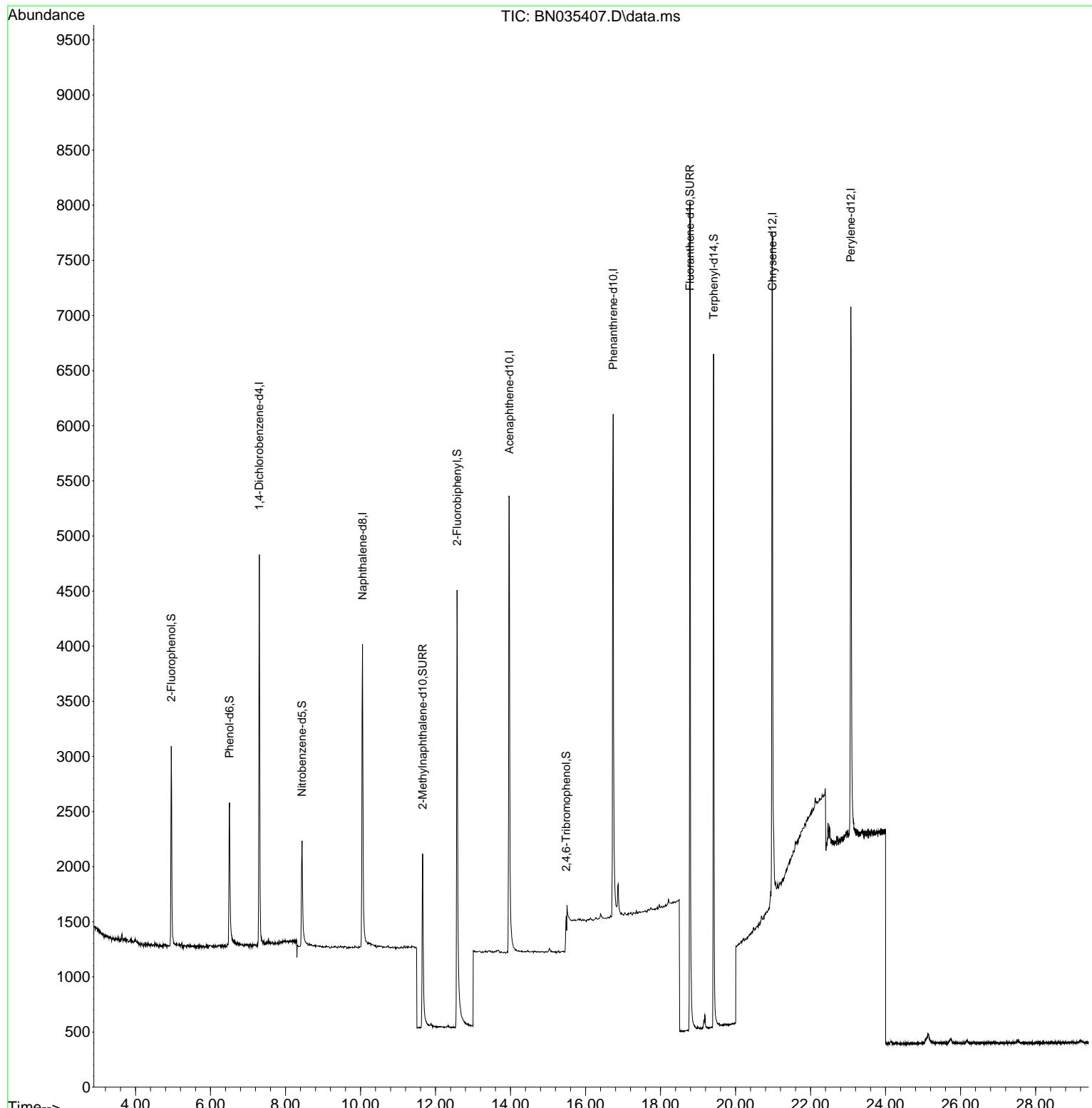
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.300	152	1833	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4526	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3257	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	8120	0.400	ng	# 0.00
29) Chrysene-d12	20.983	240	6937	0.400	ng	0.00
35) Perylene-d12	23.076	264	6492	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.953	112	1626	0.354	ng	-0.01
5) Phenol-d6	6.506	99	1782	0.323	ng	0.00
8) Nitrobenzene-d5	8.440	82	1109	0.401	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	3089	0.436	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	400	0.173	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	5204	0.423	ng	0.00
27) Fluoranthene-d10	18.785	212	9620	0.418	ng	0.00
31) Terphenyl-d14	19.416	244	7009	0.512	ng	0.00

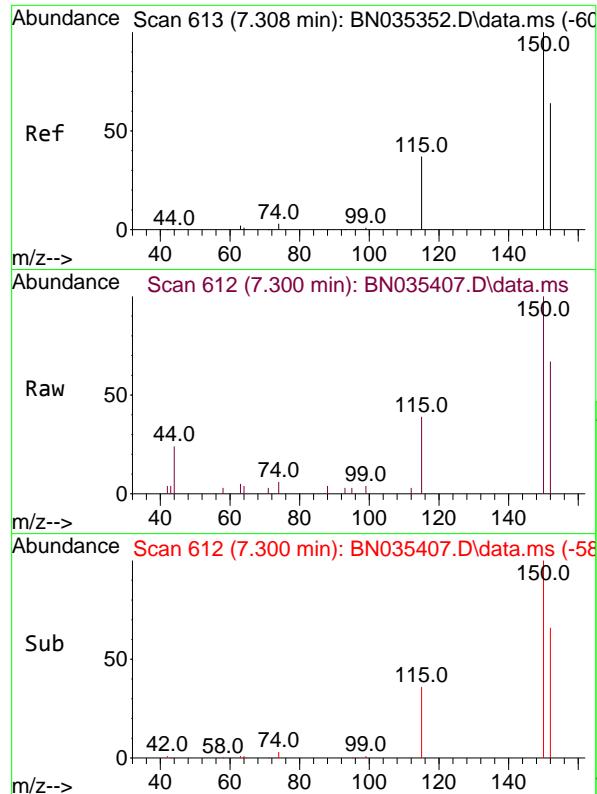
Target Compounds	Qvalue
(#= qualifier out of range (m) = manual integration (+) = signals summed	

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035407.D
 Acq On : 03 Dec 2024 17:37
 Operator : RC/JU
 Sample : PB165348BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BL

Quant Time: Dec 03 18:02:35 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

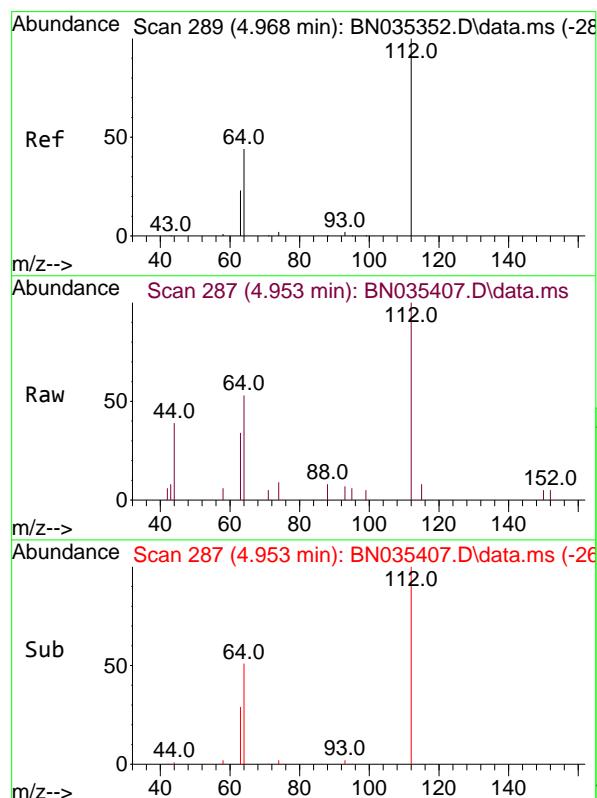
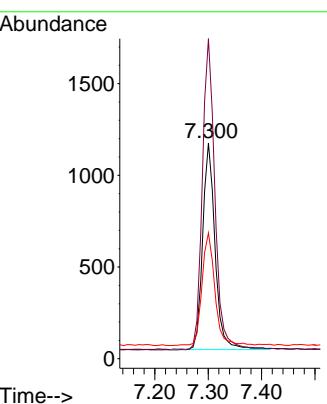




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R.T. -0.008 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

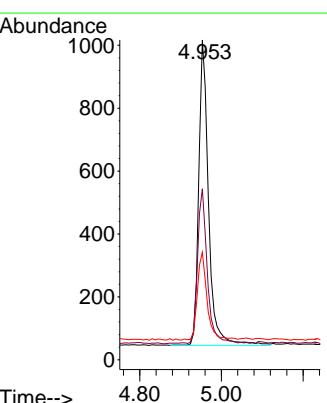
Instrument : BNA_N
ClientSampleId : PB165348BL

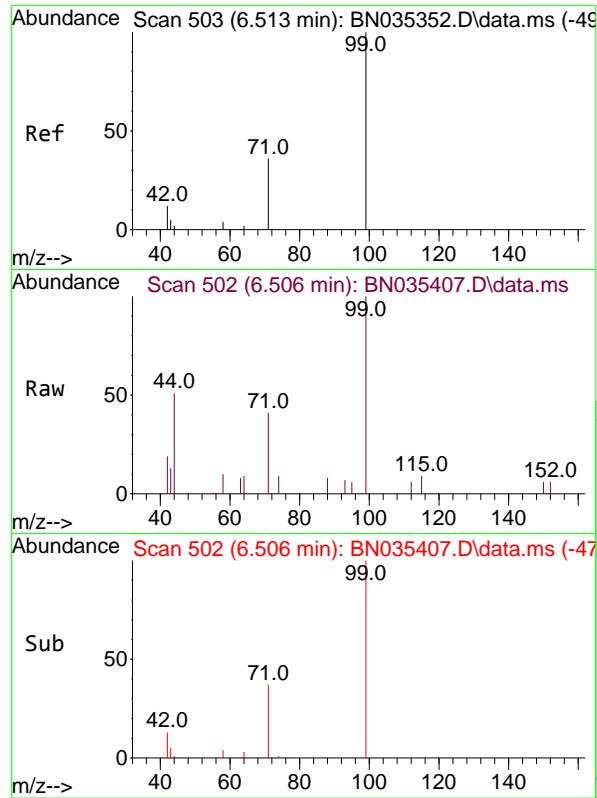
Tgt Ion:152 Resp: 1833
Ion Ratio Lower Upper
152 100
150 148.4 124.0 186.0
115 58.3 49.6 74.4



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 4.953 min Scan# 287
Delta R.T. -0.014 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion:112 Resp: 1626
Ion Ratio Lower Upper
112 100
64 50.6 39.8 59.8
63 28.5 21.0 31.6

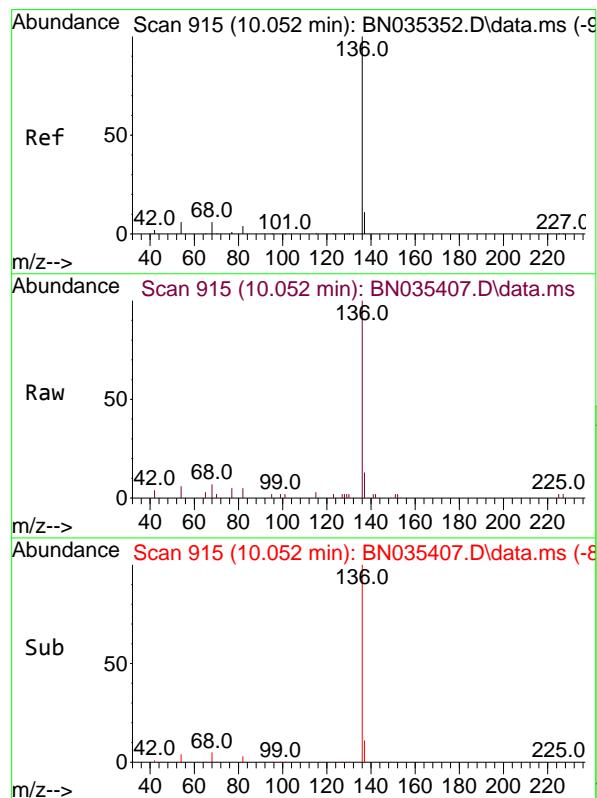
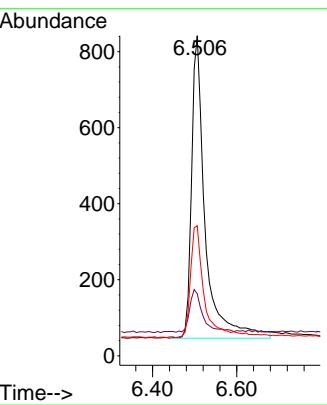




#5
 Phenol-d6
 Concen: 0.323 ng
 RT: 6.506 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035407.D
 Acq: 03 Dec 2024 17:37

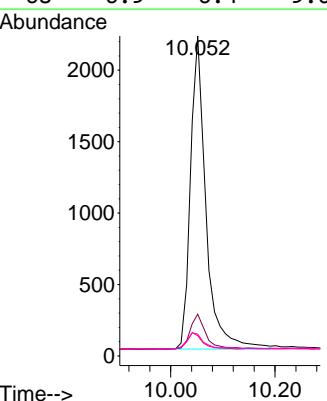
Instrument :
 BNA_N
 ClientSampleId :
 PB165348BL

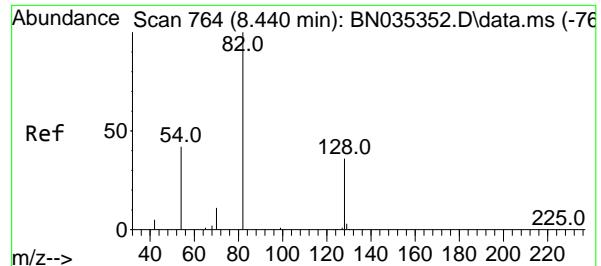
Tgt Ion: 99 Resp: 1782
 Ion Ratio Lower Upper
 99 100
 42 13.4 11.4 17.2
 71 38.6 29.3 43.9



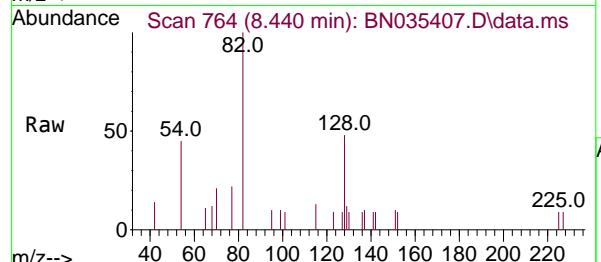
#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 915
 Delta R.T. -0.000 min
 Lab File: BN035407.D
 Acq: 03 Dec 2024 17:37

Tgt Ion:136 Resp: 4526
 Ion Ratio Lower Upper
 136 100
 137 13.1 10.2 15.2
 54 6.4 6.1 9.1
 68 6.9 6.4 9.6

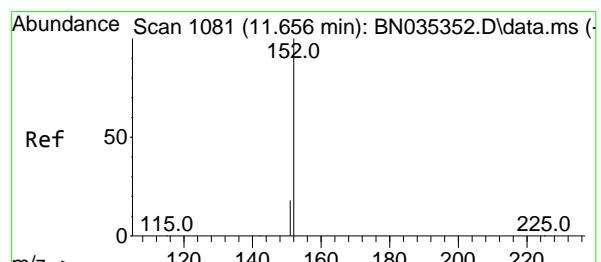
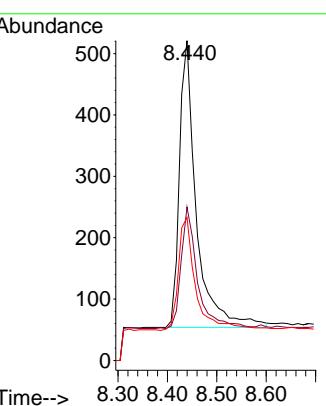
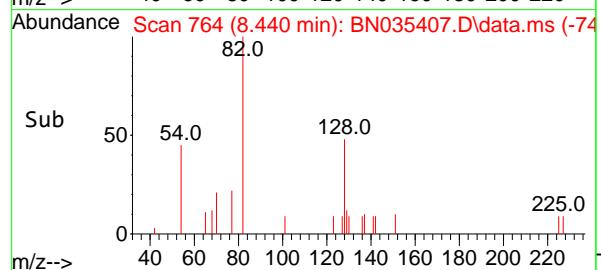




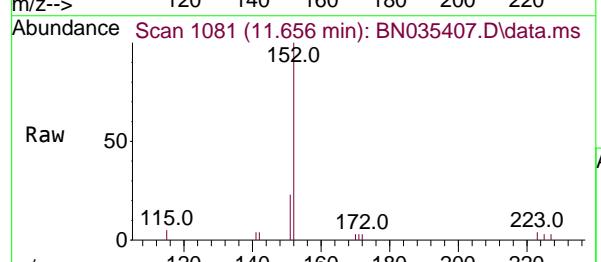
#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.440 min Scan# 7
Instrument: BNA_N
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37



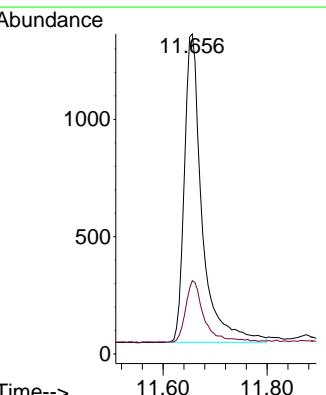
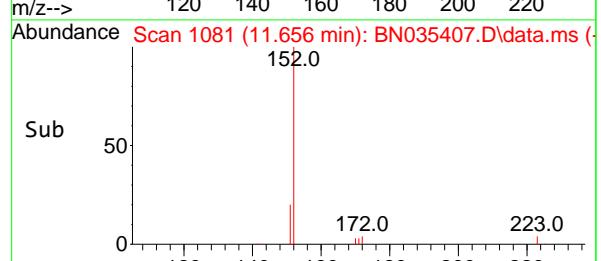
Tgt Ion: 82 Resp: 1109
Ion Ratio Lower Upper
82 100
128 48.0 33.4 50.0
54 44.7 36.7 55.1

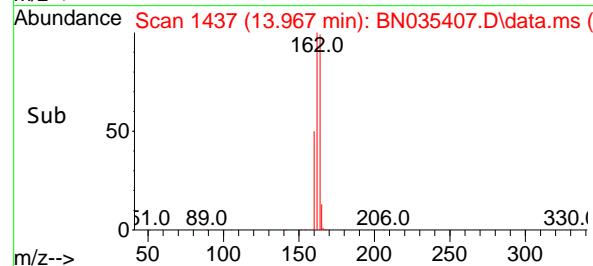
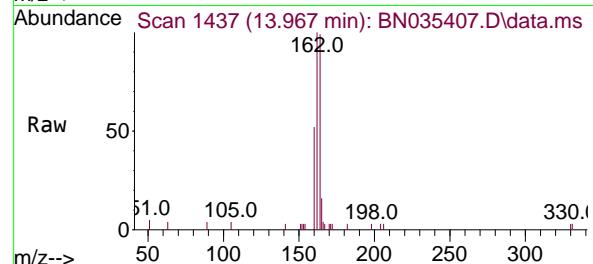
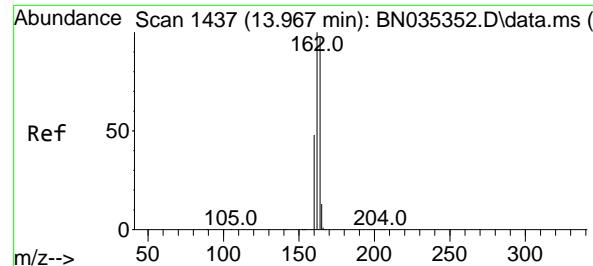


#11
2-Methylnaphthalene-d10
Concen: 0.436 ng
RT: 11.656 min Scan# 1081
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37



Tgt Ion:152 Resp: 3089
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.967 min Scan# 1437

Delta R.T. -0.000 min

Lab File: BN035407.D

Acq: 03 Dec 2024 17:37

Instrument:

BNA_N

ClientSampleId :

PB165348BL

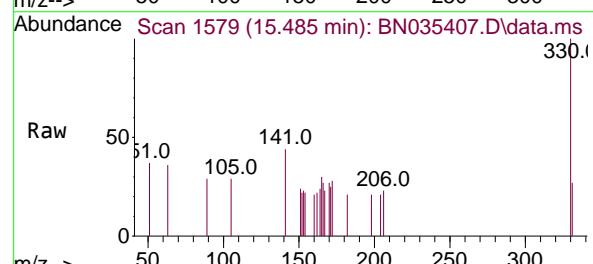
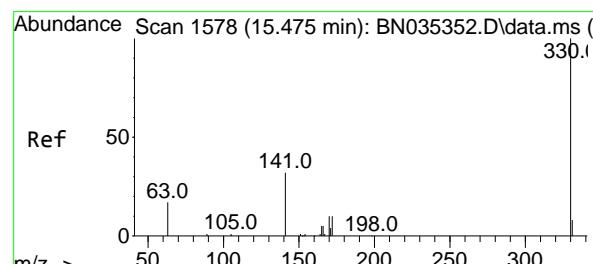
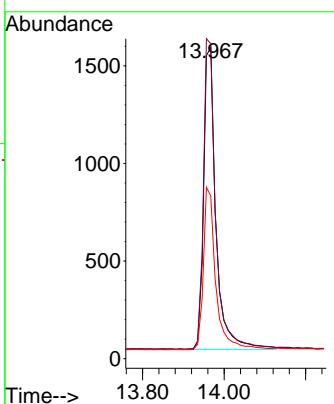
Tgt Ion:164 Resp: 3257

Ion Ratio Lower Upper

164 100

162 101.3 82.2 123.2

160 52.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.173 ng

RT: 15.485 min Scan# 1579

Delta R.T. 0.011 min

Lab File: BN035407.D

Acq: 03 Dec 2024 17:37

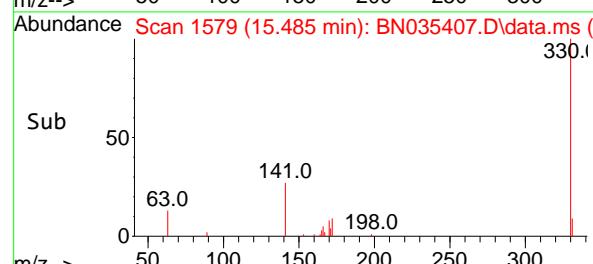
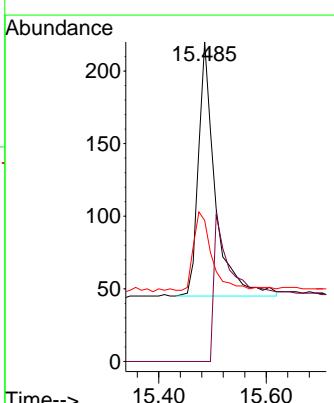
Tgt Ion:330 Resp: 400

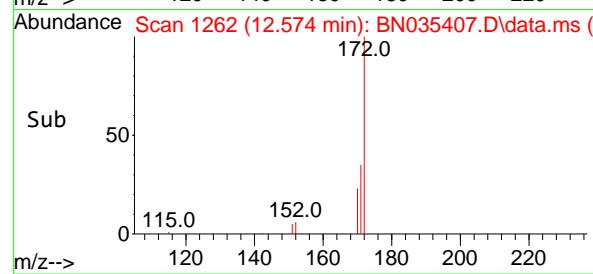
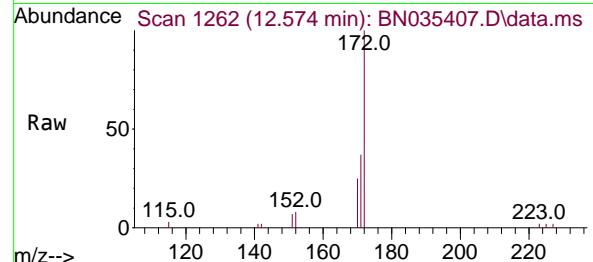
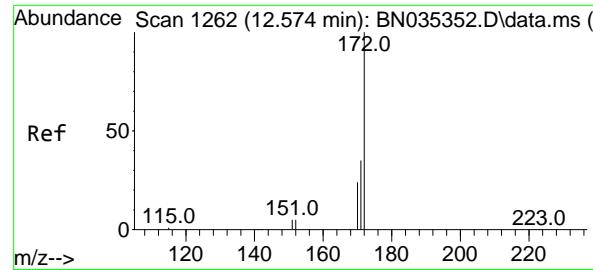
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 32.8 26.6 40.0

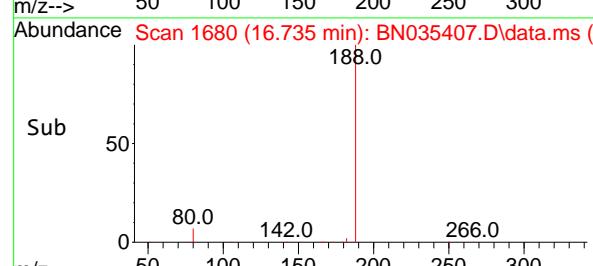
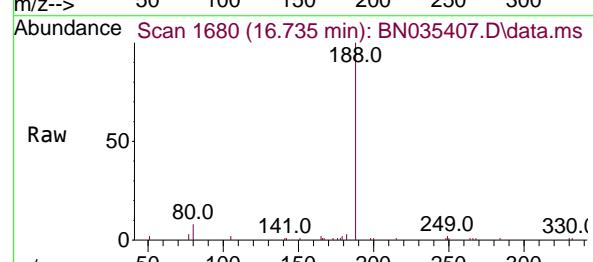
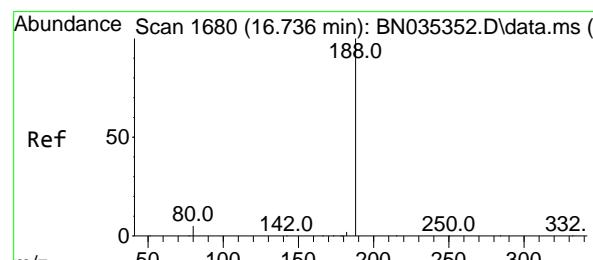
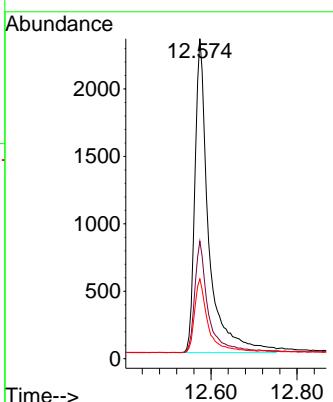




#15
2-Fluorobiphenyl
Concen: 0.423 ng
RT: 12.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

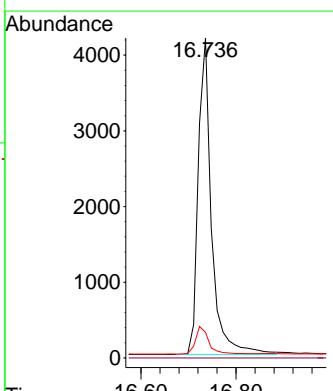
Instrument : BNA_N
ClientSampleId : PB165348BL

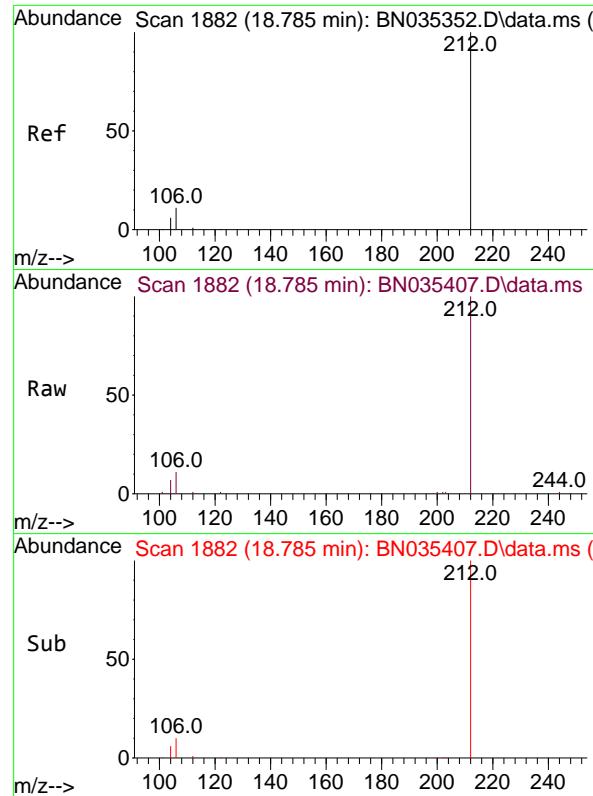
Tgt Ion:172 Resp: 5204
Ion Ratio Lower Upper
172 100
171 36.7 29.0 43.4
170 24.9 19.8 29.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.735 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion:188 Resp: 8120
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.0 4.6 6.8#

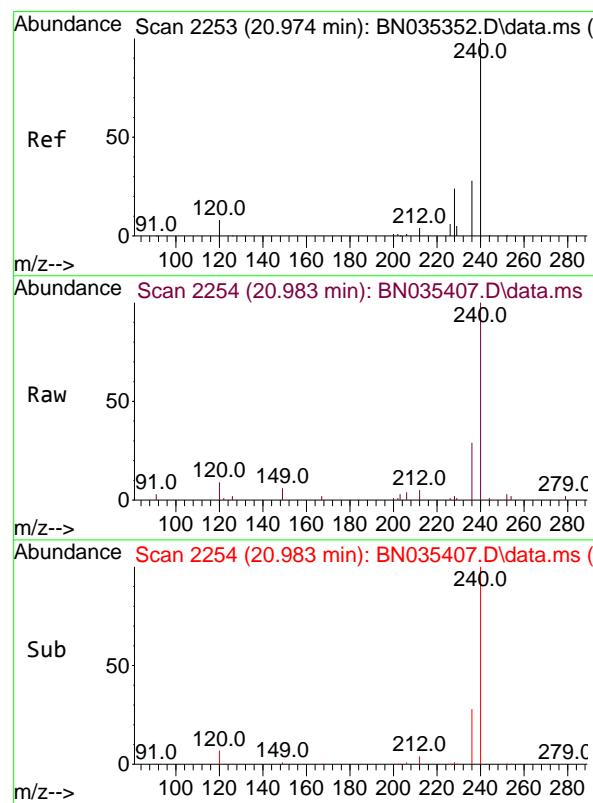
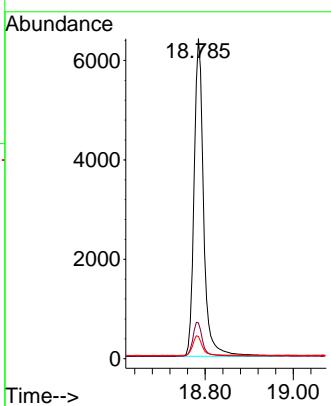




#27
Fluoranthene-d10
Concen: 0.418 ng
RT: 18.785 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

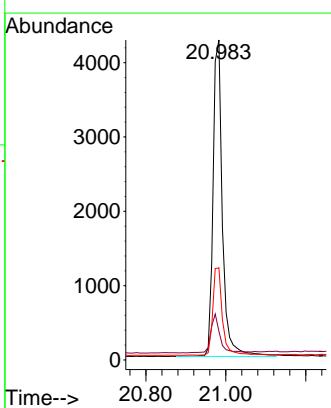
Instrument : BNA_N
ClientSampleId : PB165348BL

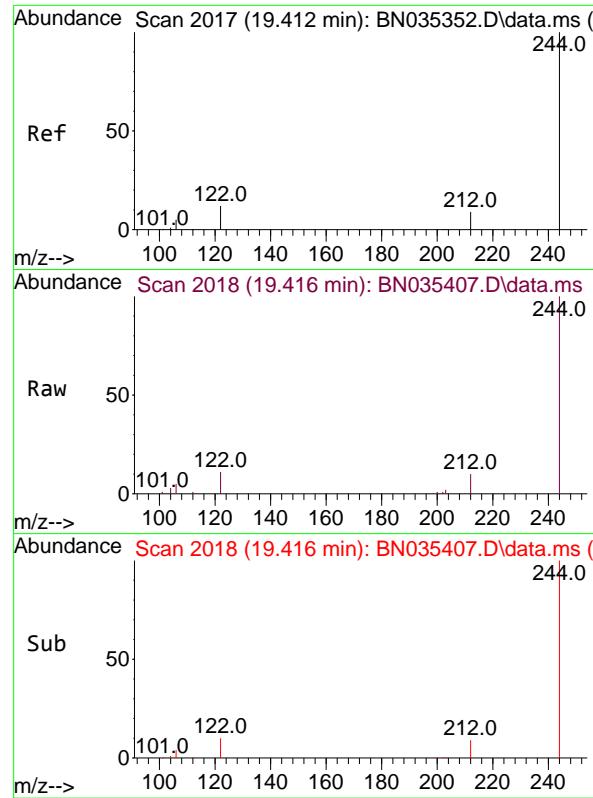
Tgt Ion:212 Resp: 9620
Ion Ratio Lower Upper
212 100
106 10.9 9.2 13.8
104 6.2 5.3 7.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.983 min Scan# 2254
Delta R.T. 0.009 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

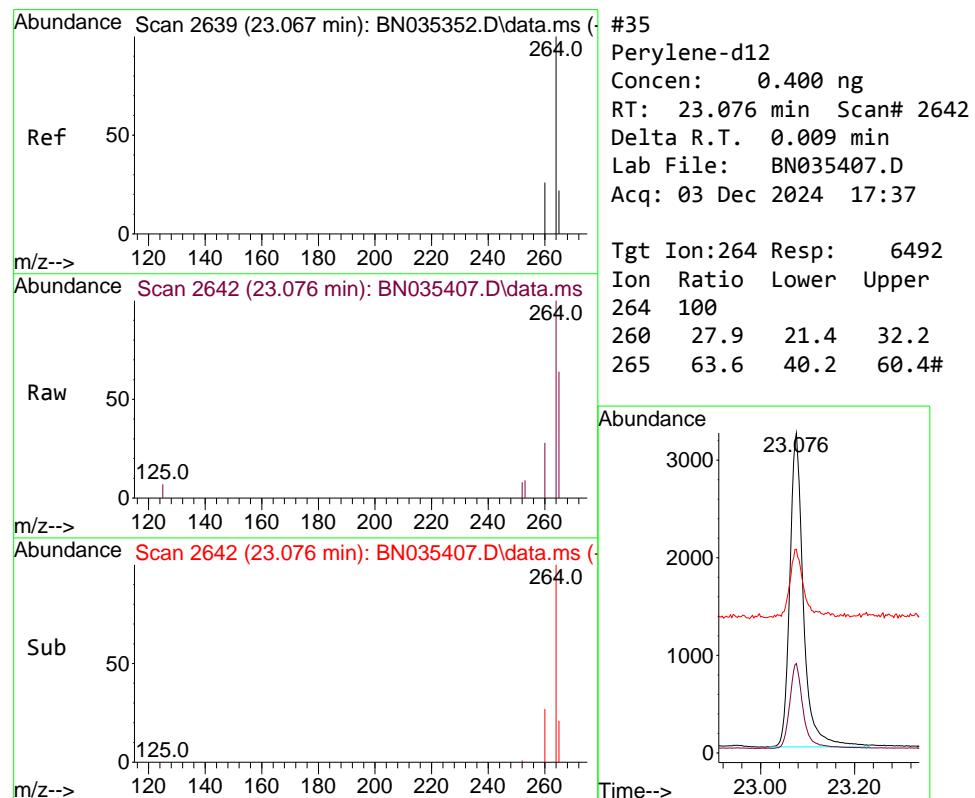
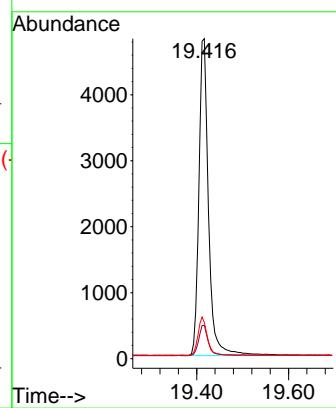
Tgt Ion:240 Resp: 6937
Ion Ratio Lower Upper
240 100
120 8.9 7.9 11.9
236 28.8 22.9 34.3





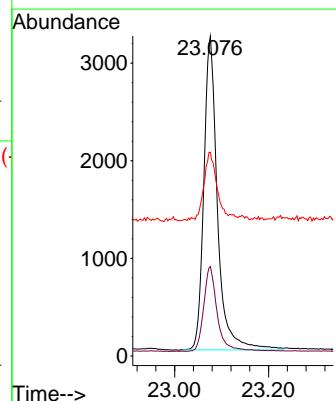
#31
Terphenyl-d14
Concen: 0.512 ng
RT: 19.416 min Scan# 2
Instrument: BNA_N
Delta R.T. 0.005 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37
ClientSampleId : PB165348BL

Tgt Ion:244 Resp: 7009
Ion Ratio Lower Upper
244 100
212 10.4 8.1 12.1
122 11.3 10.3 15.5



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.076 min Scan# 2642
Delta R.T. 0.009 min
Lab File: BN035407.D
Acq: 03 Dec 2024 17:37

Tgt Ion:264 Resp: 6492
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 63.6 40.2 60.4#





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:	PB165348BS			SDG No.:	P5065
Lab Sample ID:	PB165348BS			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL			Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N			Level :	LOW
Injection Volume :	GPC Factor : 1.0			GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035408.D	1	12/03/24 12:30	12/03/24 18:13	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.52		30 - 150		130%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.45	*	55 - 111		112%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		116%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2150	7.301				
1146-65-2	Naphthalene-d8	5110	10.052				
15067-26-2	Acenaphthene-d10	3360	13.957				
1517-22-2	Phenanthrene-d10	8330	16.723				
1719-03-5	Chrysene-d12	7510	20.974				
1520-96-3	Perylene-d12	6900	23.067				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035408.D
 Acq On : 03 Dec 2024 18:13
 Operator : RC/JU
 Sample : PB165348BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BS

Quant Time: Dec 03 22:05:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

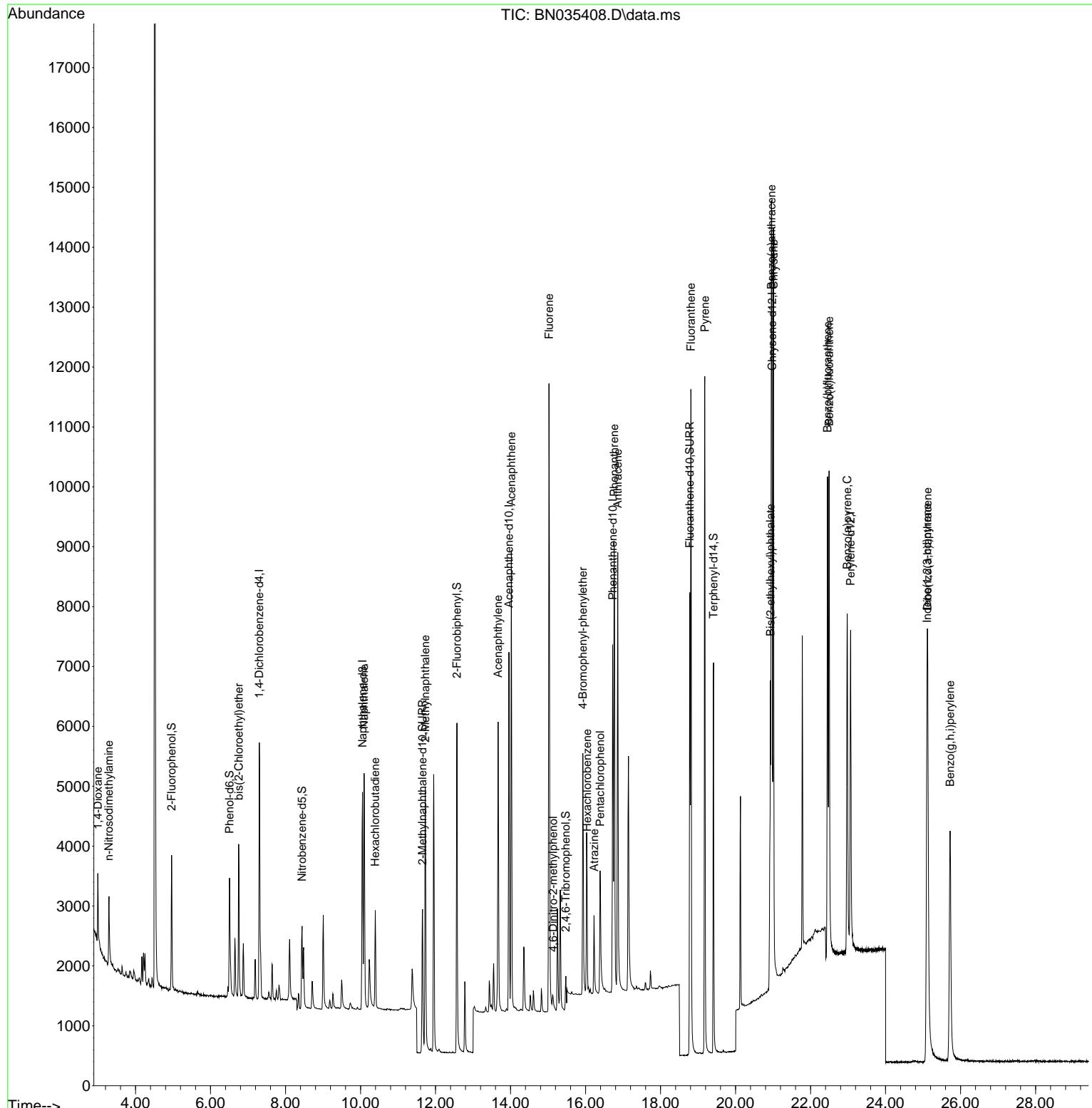
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	2152	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5114	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3359	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8334	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7507	0.400	ng	0.00
35) Perylene-d12	23.067	264	6897	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	1873	0.348	ng	0.00
5) Phenol-d6	6.506	99	2132	0.329	ng	0.00
8) Nitrobenzene-d5	8.440	82	1399	0.448	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	4155	0.519	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	550	0.231	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5473	0.431	ng	0.00
27) Fluoranthene-d10	18.780	212	9414	0.398	ng	0.00
31) Terphenyl-d14	19.412	244	6867	0.464	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	754	0.367	ng	# 72
3) n-Nitrosodimethylamine	3.285	42	671	0.392	ng	# 98
6) bis(2-Chloroethyl)ether	6.752	93	2015	0.370	ng	99
9) Naphthalene	10.095	128	5182	0.384	ng	99
10) Hexachlorobutadiene	10.394	225	1293	0.416	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3585	0.371	ng	98
16) Acenaphthylene	13.668	152	5729	0.406	ng	99
17) Acenaphthene	14.021	154	3643	0.389	ng	99
18) Fluorene	15.026	166	5048	0.377	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	266	0.325	ng	85
21) 4-Bromophenyl-phenylether	15.929	248	1855	0.381	ng	# 77
22) Hexachlorobenzene	16.041	284	2219	0.388	ng	98
23) Atrazine	16.227	200	1192	0.344	ng	98
24) Pentachlorophenol	16.388	266	1328	0.533	ng	# 86
25) Phenanthrene	16.760	178	8896	0.389	ng	100
26) Anthracene	16.860	178	8036	0.388	ng	99
28) Fluoranthene	18.813	202	10698	0.347	ng	99
30) Pyrene	19.180	202	10998	0.397	ng	99
32) Benzo(a)anthracene	20.956	228	9786	0.373	ng	100
33) Chrysene	21.010	228	10984	0.406	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3698	0.357	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	10275	0.381	ng	98
37) Benzo(b)fluoranthene	22.453	252	9922	0.393	ng	98
38) Benzo(k)fluoranthene	22.494	252	10718	0.432	ng	99
39) Benzo(a)pyrene	22.977	252	8783	0.423	ng	98
40) Dibenzo(a,h)anthracene	25.123	278	7917	0.372	ng	98
41) Benzo(g,h,i)perylene	25.719	276	8299	0.373	ng	98

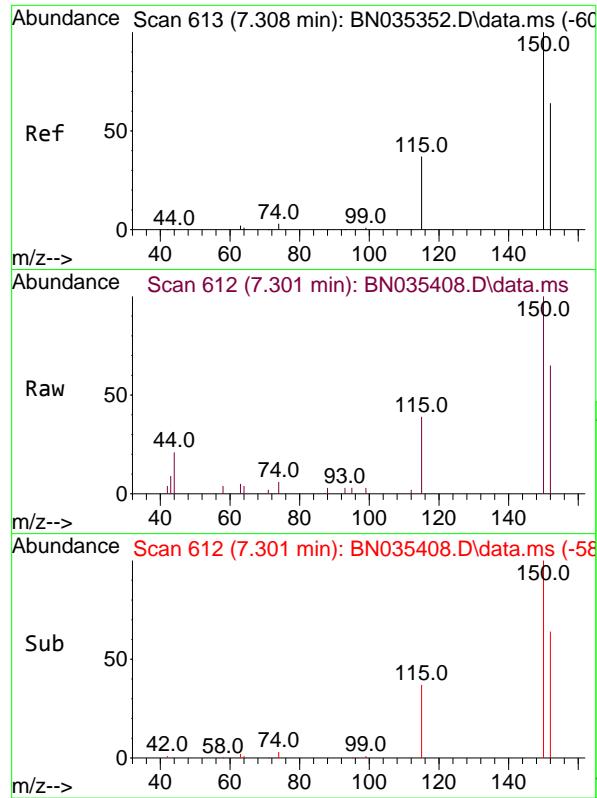
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035408.D
 Acq On : 03 Dec 2024 18:13
 Operator : RC/JU
 Sample : PB165348BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BS

Quant Time: Dec 03 22:05:05 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

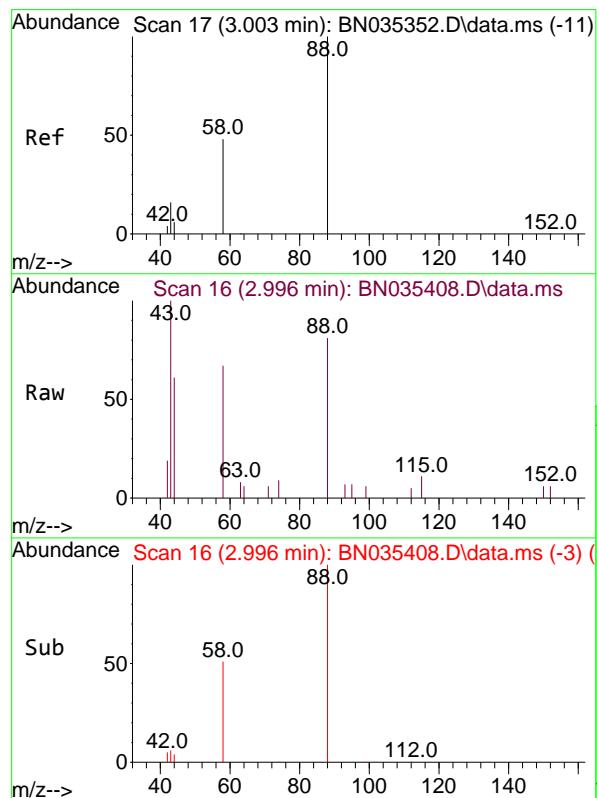
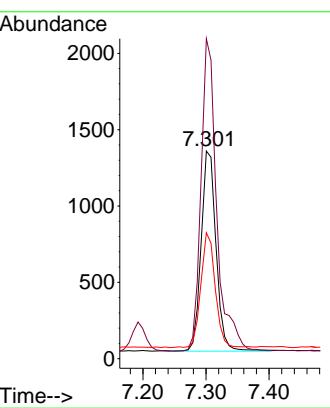




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.301 min Scan# 6
 Delta R.T. -0.007 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

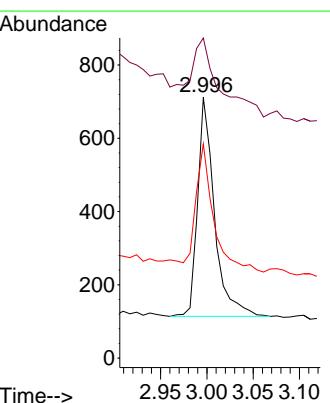
Instrument : BNA_N
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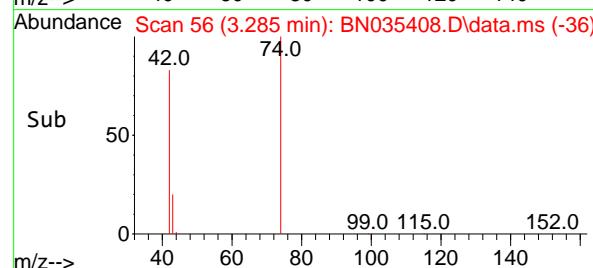
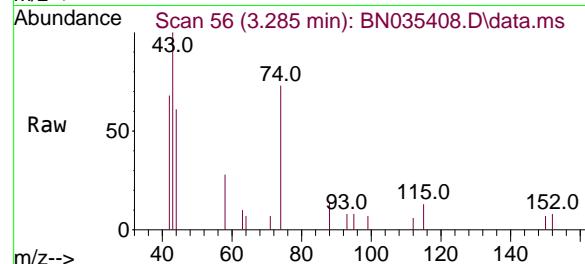
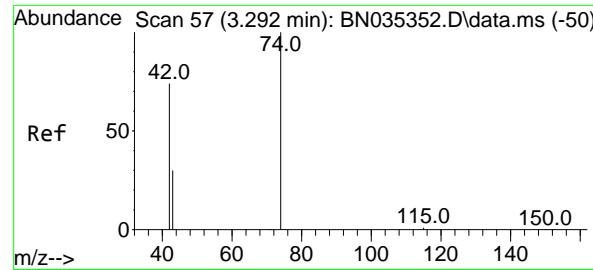
Tgt Ion:152 Resp: 2152
 Ion Ratio Lower Upper
 152 100
 150 154.1 124.0 186.0
 115 60.7 49.6 74.4



#2
 1,4-Dioxane
 Concen: 0.367 ng
 RT: 2.996 min Scan# 16
 Delta R.T. -0.007 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Tgt Ion: 88 Resp: 754
 Ion Ratio Lower Upper
 88 100
 43 58.1 17.2 25.8#
 58 61.8 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.392 ng

RT: 3.285 min Scan# 5

Delta R.T. -0.007 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument:

BNA_N

ClientSampleId :

PB165348BS

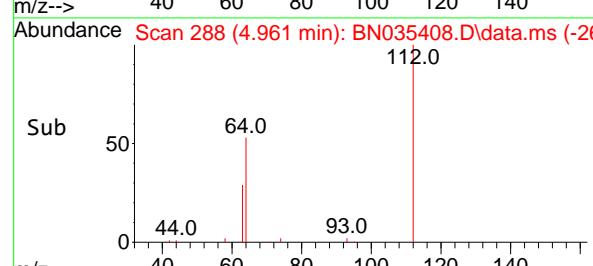
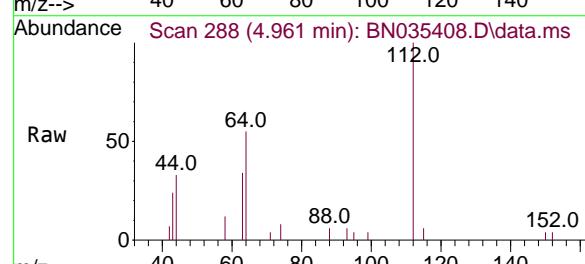
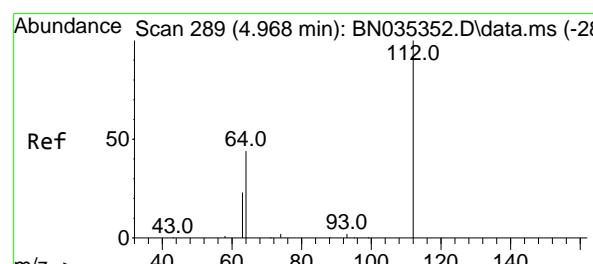
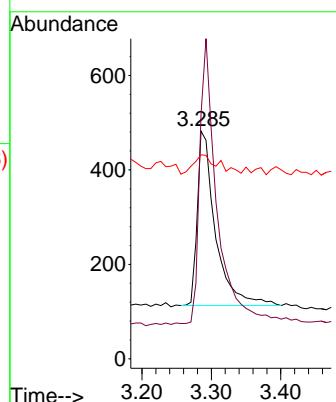
Tgt Ion: 42 Resp: 671

Ion Ratio Lower Upper

42 100

74 158.4 124.9 187.3

44 14.8 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.348 ng

RT: 4.961 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

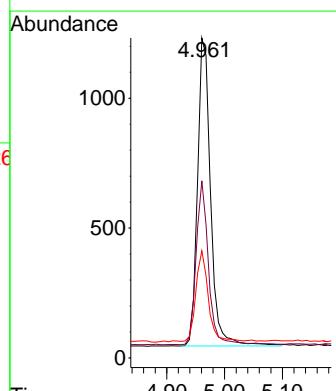
Tgt Ion: 112 Resp: 1873

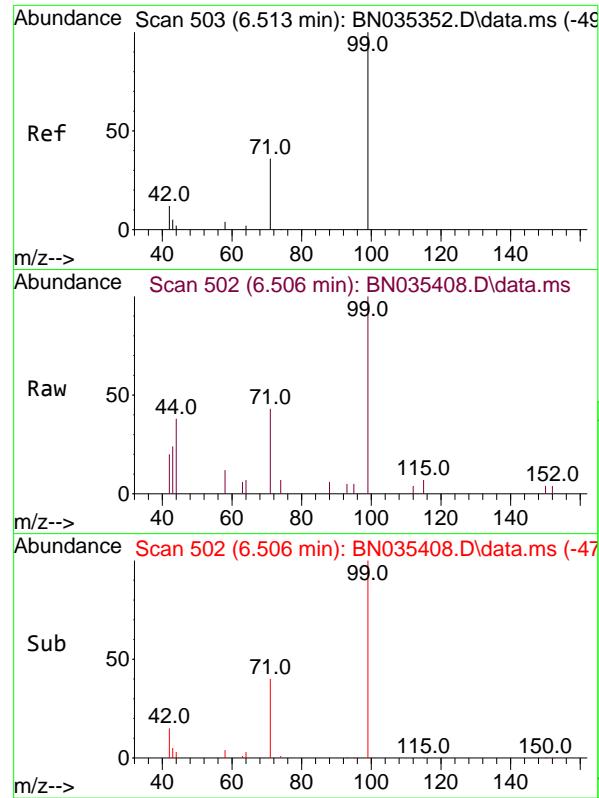
Ion Ratio Lower Upper

112 100

64 49.5 39.8 59.8

63 29.0 21.0 31.6

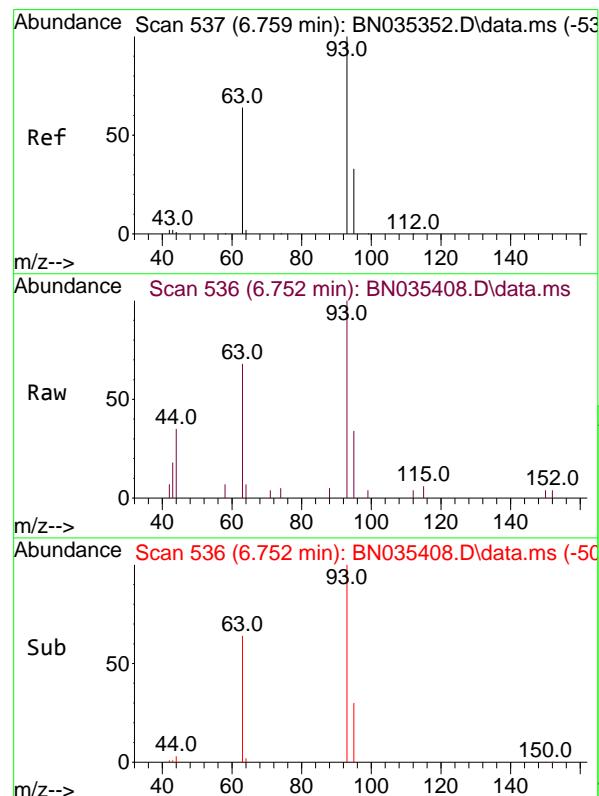
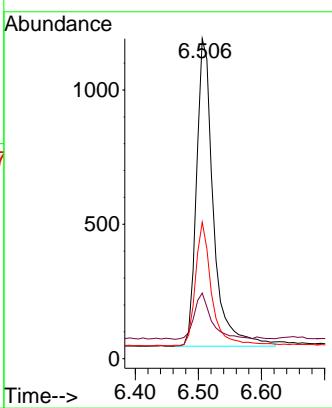




#5
 Phenol-d6
 Concen: 0.329 ng
 RT: 6.506 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

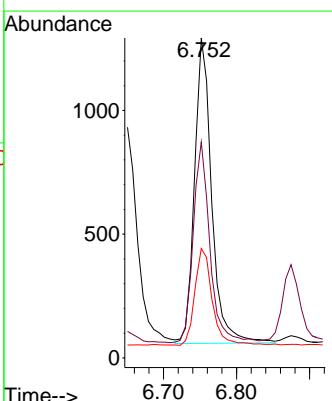
Instrument : BNA_N
 ClientSampleId : PB165348BS

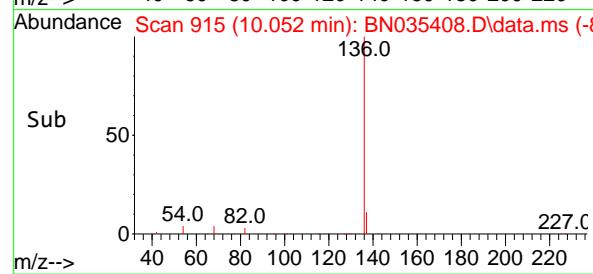
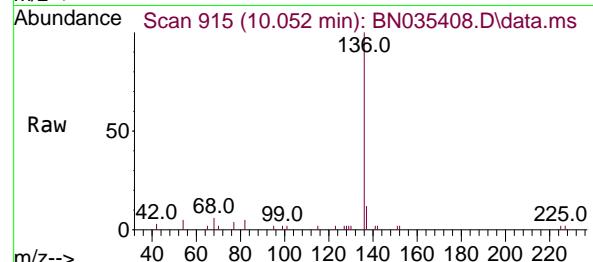
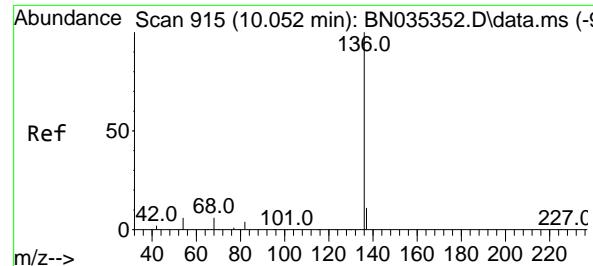
Tgt Ion: 99 Resp: 2132
 Ion Ratio Lower Upper
 99 100
 42 15.3 11.4 17.2
 71 38.9 29.3 43.9



#6
 bis(2-Chloroethyl)ether
 Concen: 0.370 ng
 RT: 6.752 min Scan# 536
 Delta R.T. -0.007 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Tgt Ion: 93 Resp: 2015
 Ion Ratio Lower Upper
 93 100
 63 63.8 50.4 75.6
 95 32.0 25.7 38.5

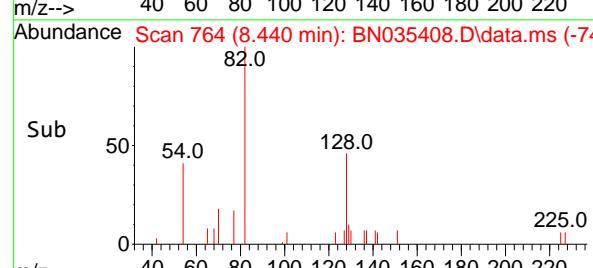
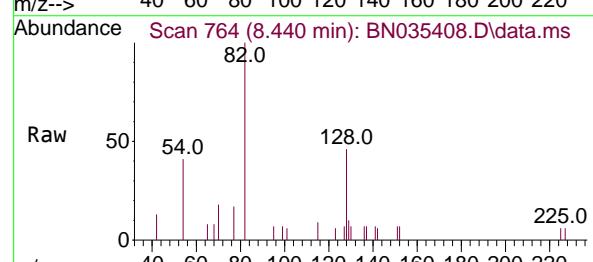
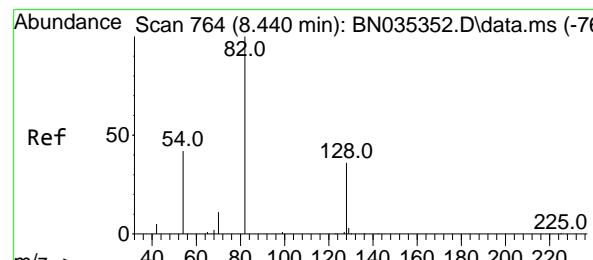
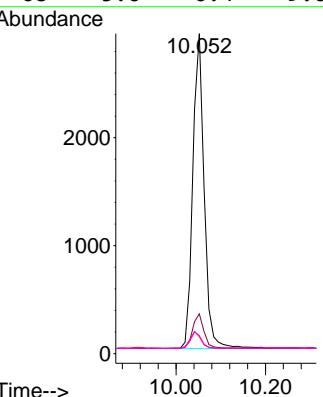




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

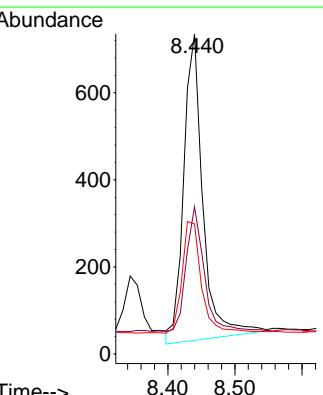
Instrument : BNA_N
 ClientSampleId : PB165348BS

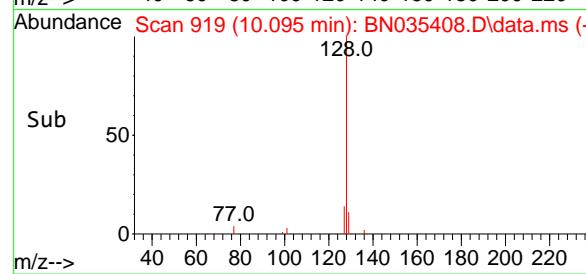
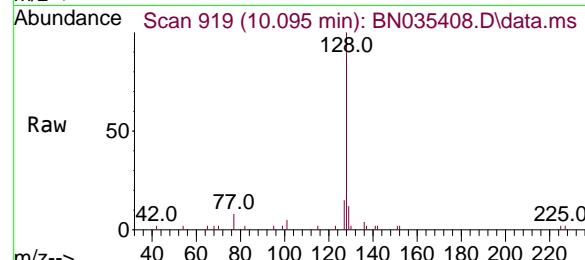
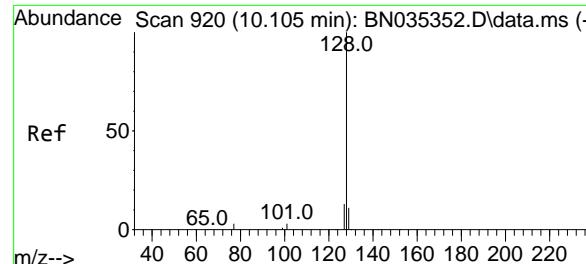
Tgt Ion:136 Resp: 5114
 Ion Ratio Lower Upper
 136 100
 137 12.4 10.2 15.2
 54 5.3 6.1 9.1#
 68 5.6 6.4 9.6#



#8
 Nitrobenzene-d5
 Concen: 0.448 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Tgt Ion: 82 Resp: 1399
 Ion Ratio Lower Upper
 82 100
 128 46.0 33.4 50.0
 54 40.7 36.7 55.1





#9

Naphthalene

Concen: 0.384 ng

RT: 10.095 min Scan# 9

Delta R.T. -0.011 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

Tgt Ion:128 Resp: 5182

Ion Ratio Lower Upper

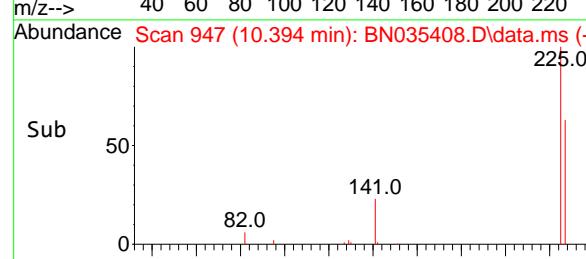
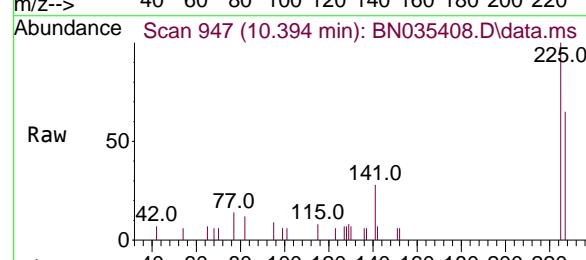
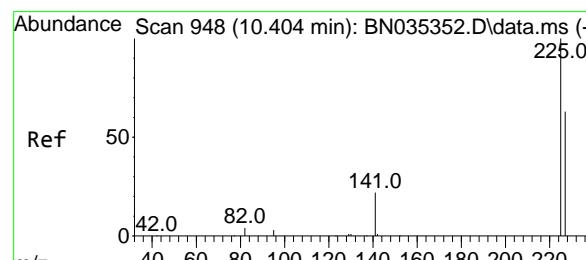
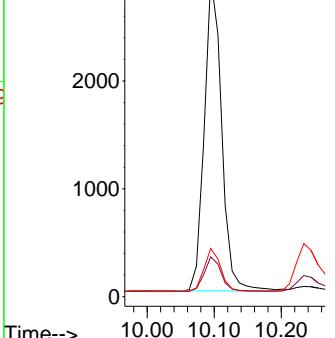
128 100

129 12.4 9.8 14.6

127 15.0 11.4 17.2

Abundance

10.095



#10

Hexachlorobutadiene

Concen: 0.416 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Tgt Ion:225 Resp: 1293

Ion Ratio Lower Upper

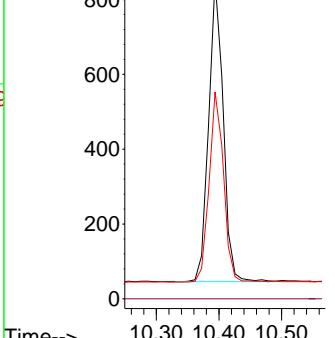
225 100

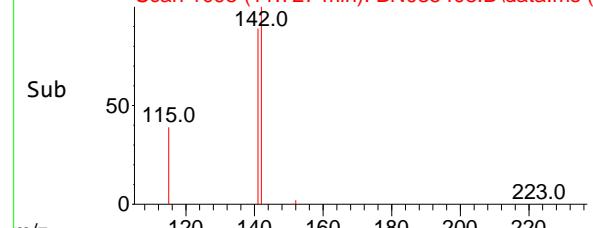
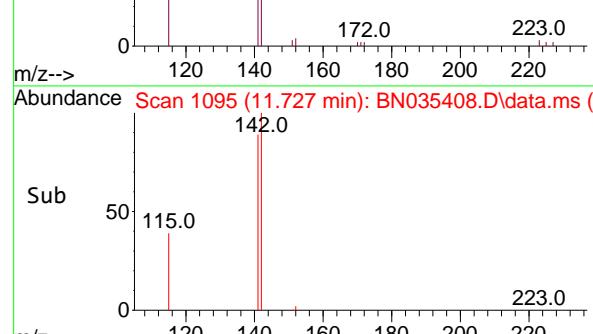
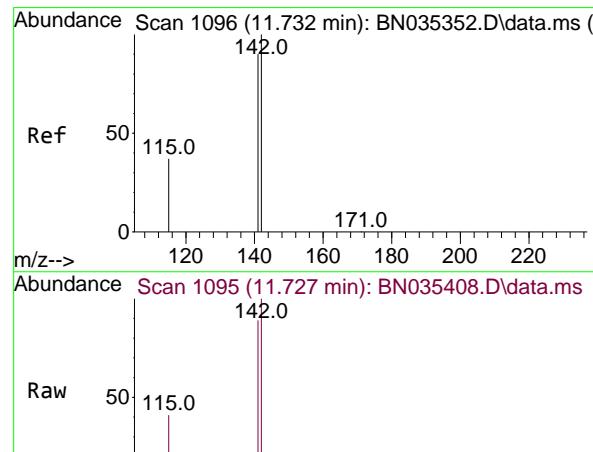
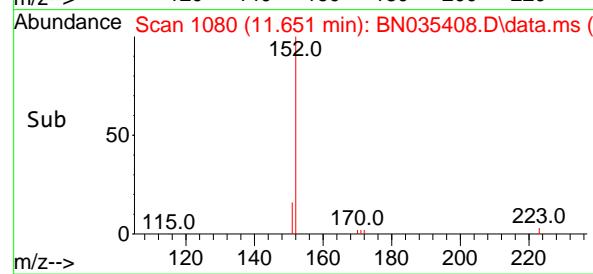
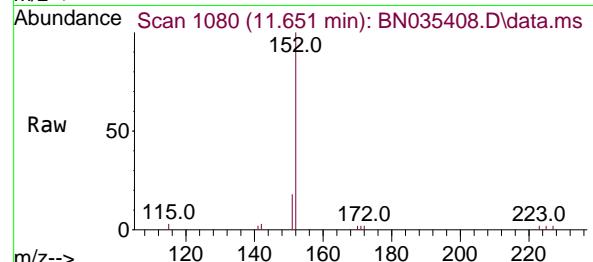
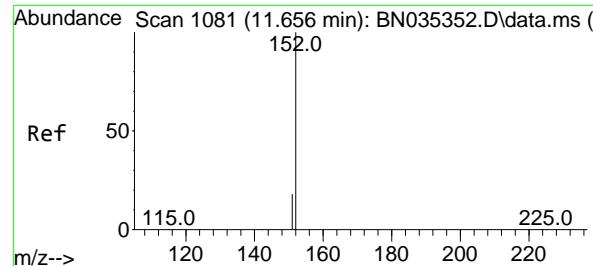
223 0.0 0.0 0.0

227 63.0 51.3 76.9

Abundance

10.394





#11

2-Methylnaphthalene-d10

Concen: 0.519 ng

RT: 11.651 min Scan# 1

Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

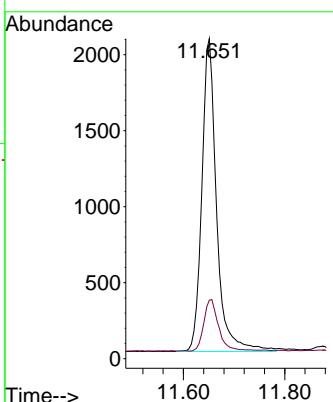
PB165348BS

Tgt Ion:152 Resp: 4155

Ion Ratio Lower Upper

152 100

151 16.5 16.6 25.0#



#12

2-Methylnaphthalene

Concen: 0.371 ng

RT: 11.727 min Scan# 1095

Delta R.T. -0.005 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

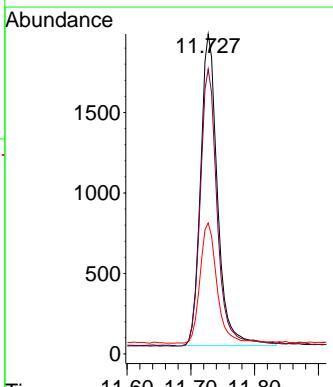
Tgt Ion:142 Resp: 3585

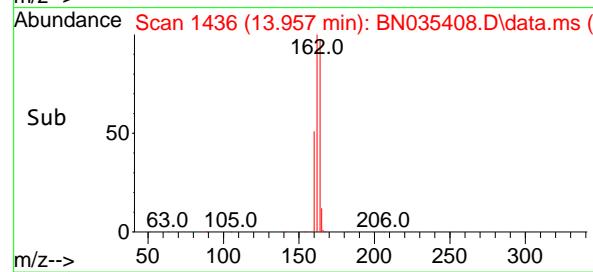
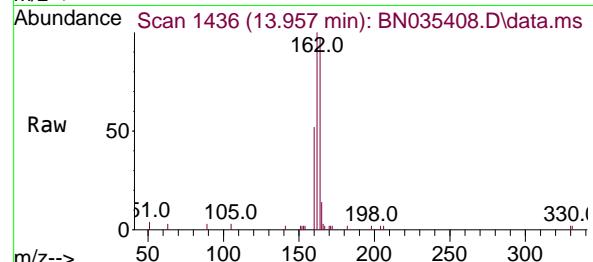
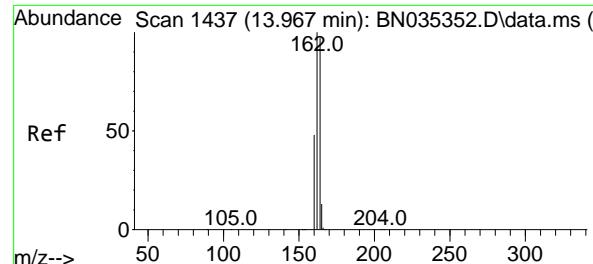
Ion Ratio Lower Upper

142 100

141 89.0 72.2 108.4

115 40.9 31.4 47.0





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 13.957 min Scan# 1436

Delta R.T. -0.011 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

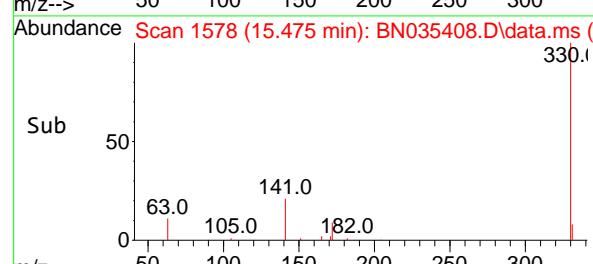
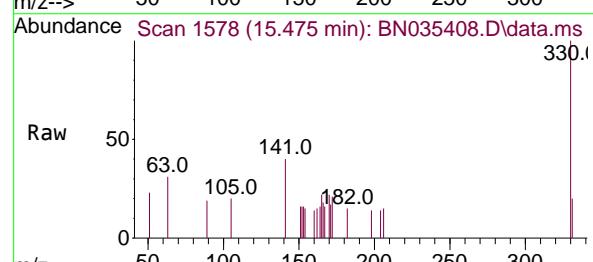
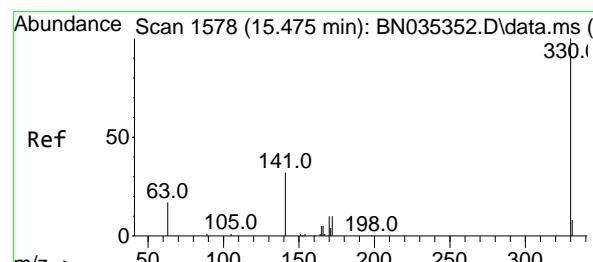
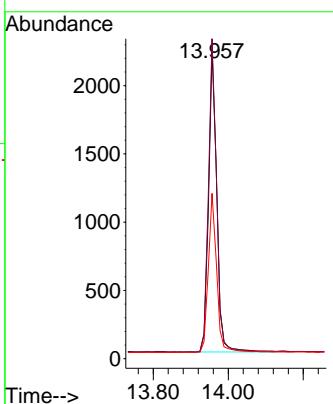
Tgt Ion:164 Resp: 3359

Ion Ratio Lower Upper

164 100

162 103.4 82.2 123.2

160 53.4 40.1 60.1



#14

2,4,6-Tribromophenol

Concen: 0.231 ng

RT: 15.475 min Scan# 1578

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

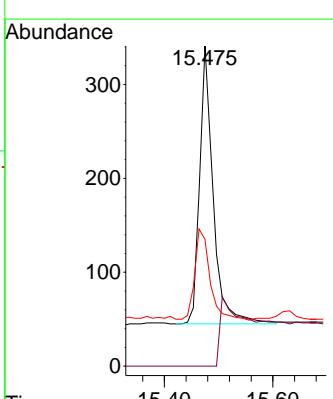
Tgt Ion:330 Resp: 550

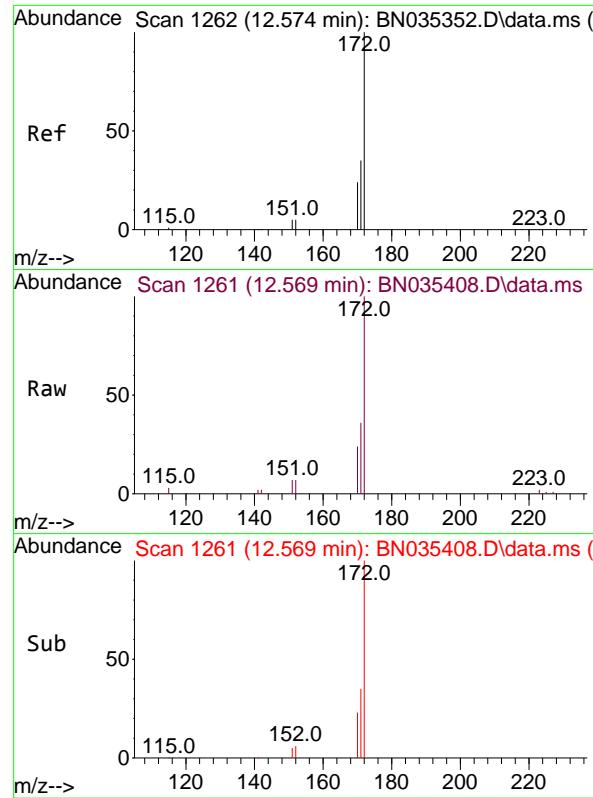
Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

141 36.0 26.6 40.0

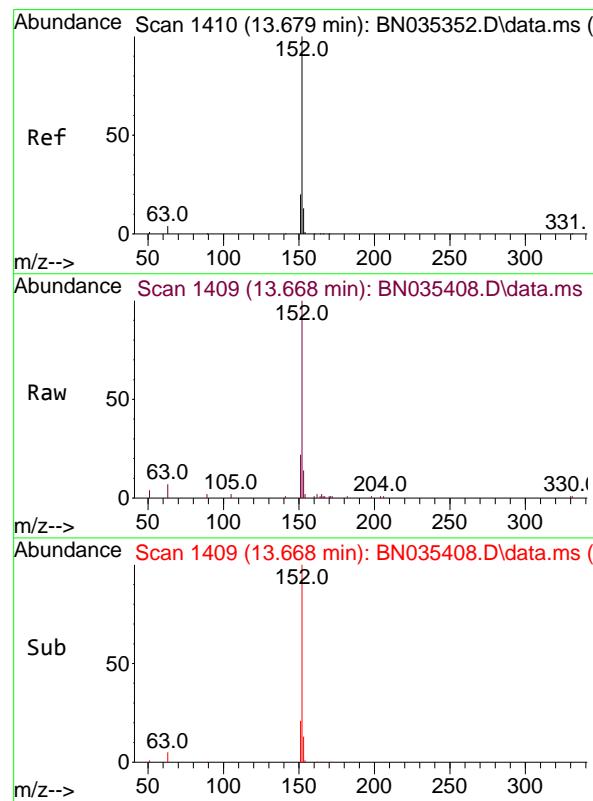
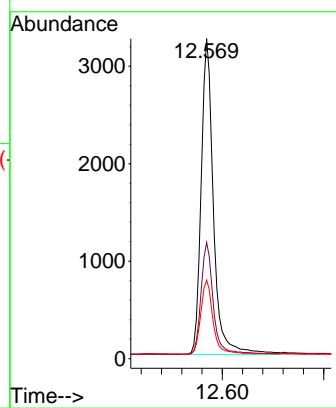




#15
2-Fluorobiphenyl
Concen: 0.431 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

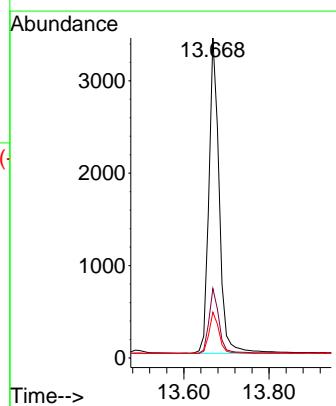
Instrument : BNA_N
ClientSampleId : PB165348BS

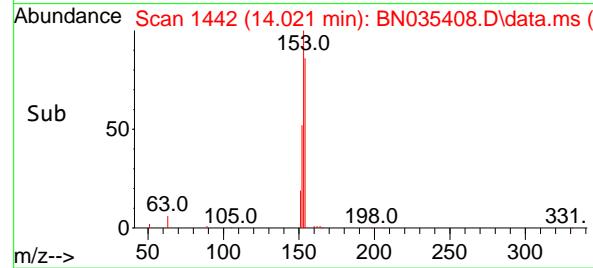
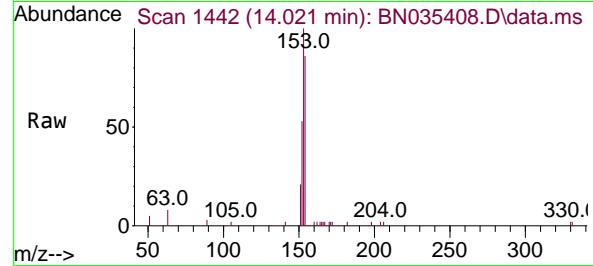
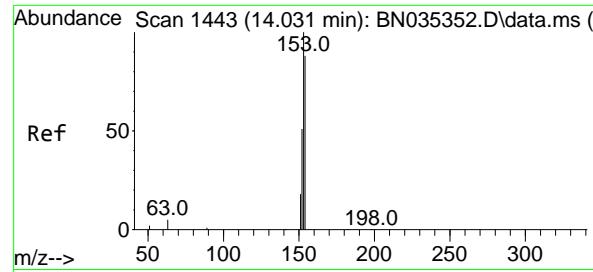
Tgt Ion:172 Resp: 5473
Ion Ratio Lower Upper
172 100
171 36.3 29.0 43.4
170 24.5 19.8 29.8



#16
Acenaphthylene
Concen: 0.406 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:152 Resp: 5729
Ion Ratio Lower Upper
152 100
151 19.9 16.2 24.2
153 12.8 10.4 15.6





#17

Acenaphthene

Concen: 0.389 ng

RT: 14.021 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument:

BNA_N

ClientSampleId :

PB165348BS

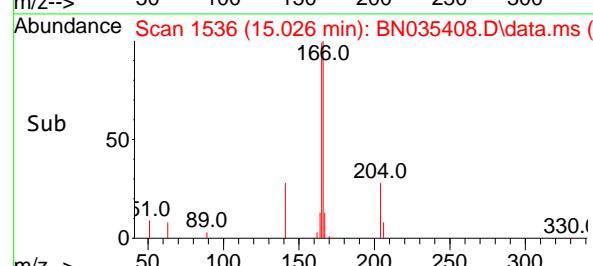
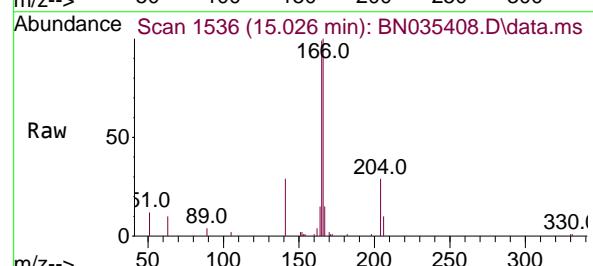
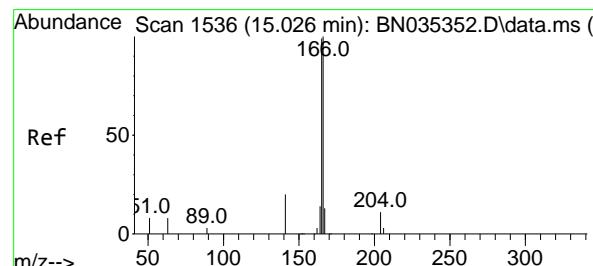
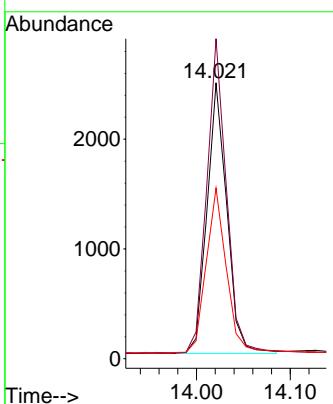
Tgt Ion:154 Resp: 3643

Ion Ratio Lower Upper

154 100

153 116.8 92.6 139.0

152 62.3 49.0 73.6



#18

Fluorene

Concen: 0.377 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

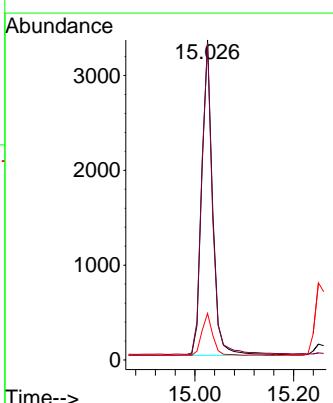
Tgt Ion:166 Resp: 5048

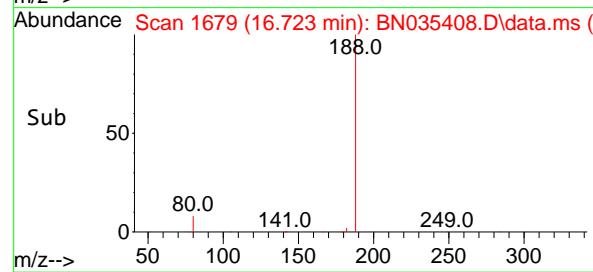
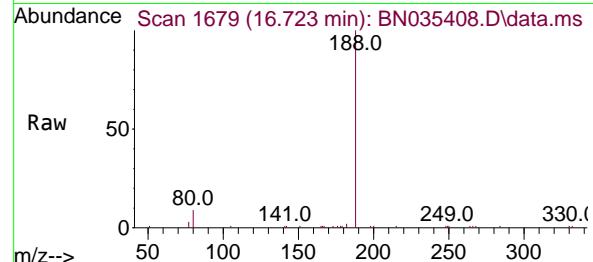
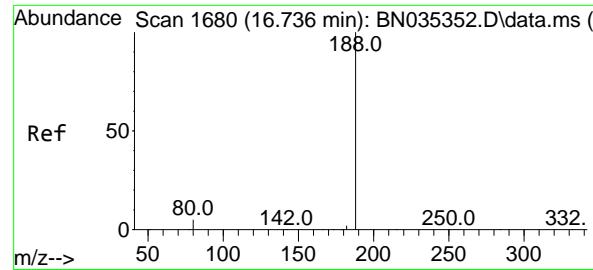
Ion Ratio Lower Upper

166 100

165 99.2 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: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

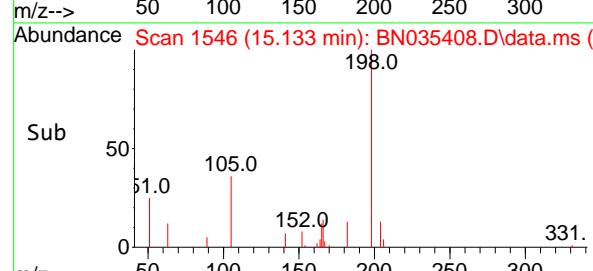
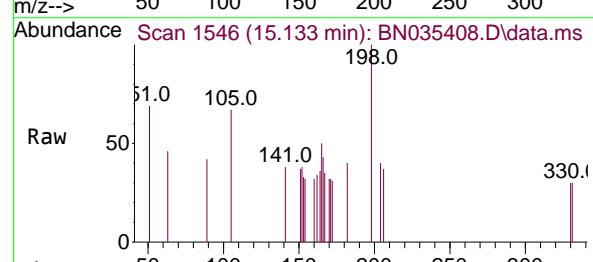
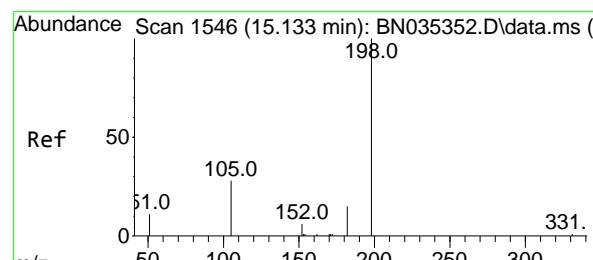
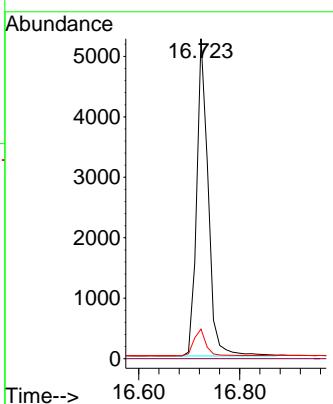
Tgt Ion:188 Resp: 8334

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.2 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.325 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

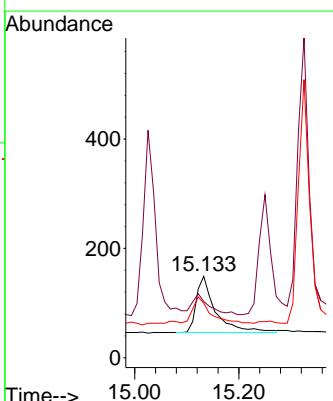
Tgt Ion:198 Resp: 266

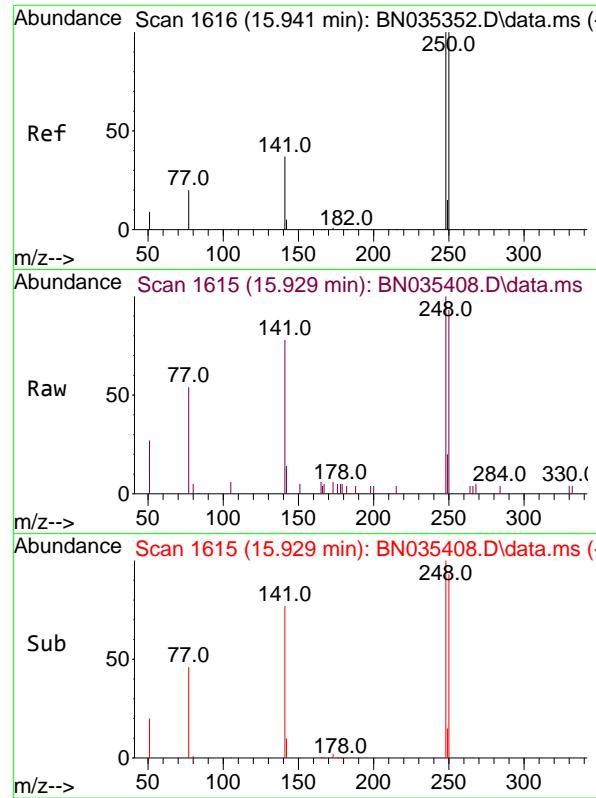
Ion Ratio Lower Upper

198 100

51 69.1 46.5 69.7

105 67.1 45.3 67.9

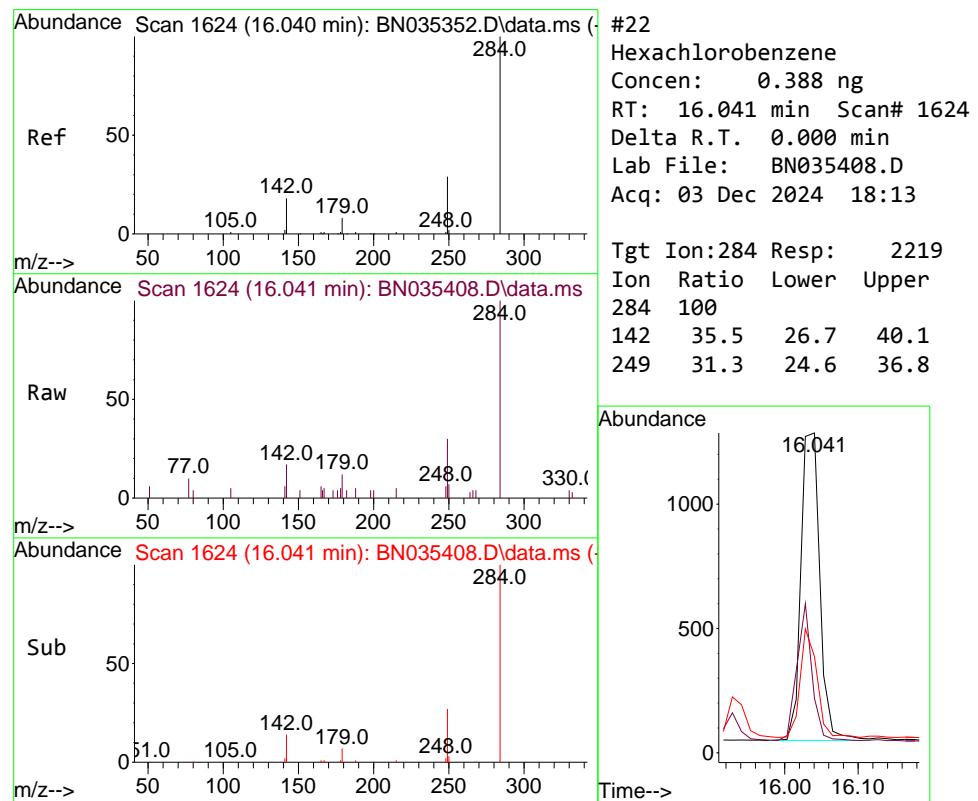
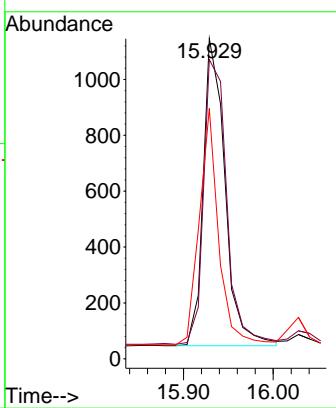




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

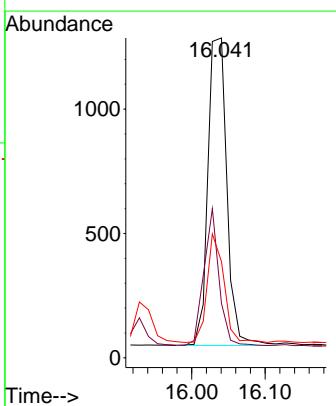
Instrument :
BNA_N
ClientSampleId :
PB165348BS

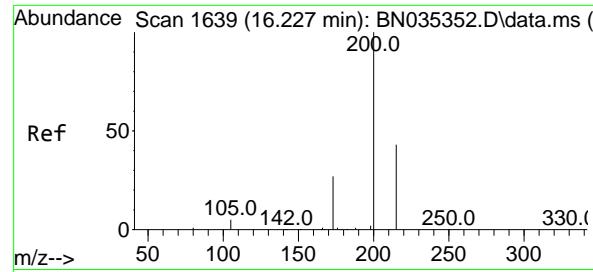
Tgt Ion:248 Resp: 1855
Ion Ratio Lower Upper
248 100
250 93.5 80.6 120.8
141 78.2 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.041 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

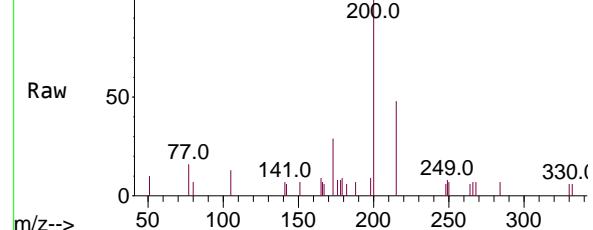
Tgt Ion:284 Resp: 2219
Ion Ratio Lower Upper
284 100
142 35.5 26.7 40.1
249 31.3 24.6 36.8





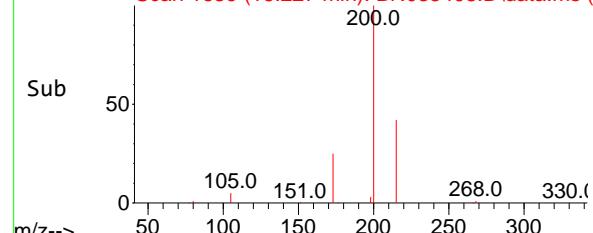
Ref 50
0

Scan 1639 (16.227 min): BN035408.D\data.ms



Raw 50
0

Scan 1639 (16.227 min): BN035408.D\data.ms



Sub 50
0

Scan 1639 (16.227 min): BN035408.D\data.ms

#23

Atrazine

Concen: 0.344 ng

RT: 16.227 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

Instrument :

BNA_N

ClientSampleId :

PB165348BS

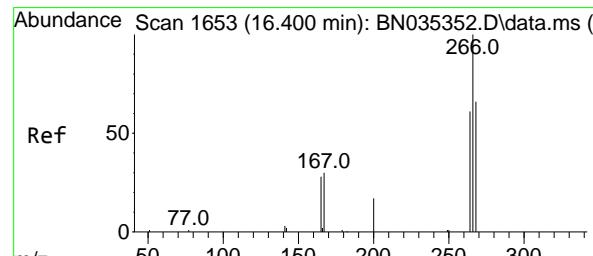
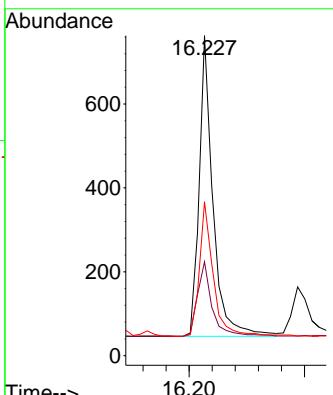
Tgt Ion:200 Resp: 1192

Ion Ratio Lower Upper

200 100

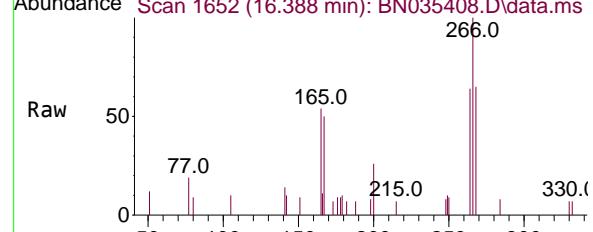
173 29.4 24.1 36.1

215 48.1 36.9 55.3



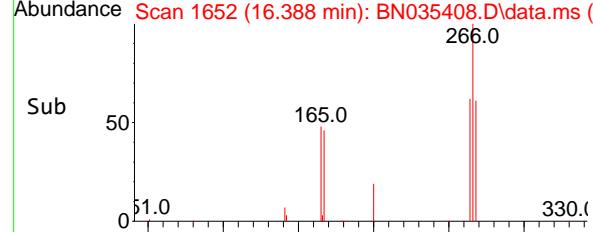
Ref 50
0

Scan 1653 (16.400 min): BN035352.D\data.ms



Raw 50
0

Scan 1652 (16.388 min): BN035408.D\data.ms



#24

Pentachlorophenol

Concen: 0.533 ng

RT: 16.388 min Scan# 1652

Delta R.T. -0.012 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

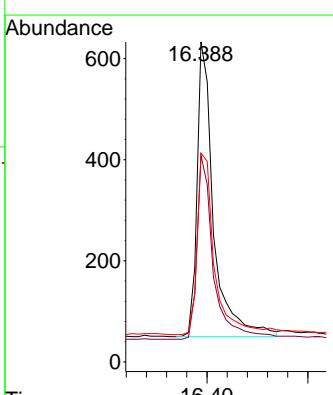
Tgt Ion:266 Resp: 1328

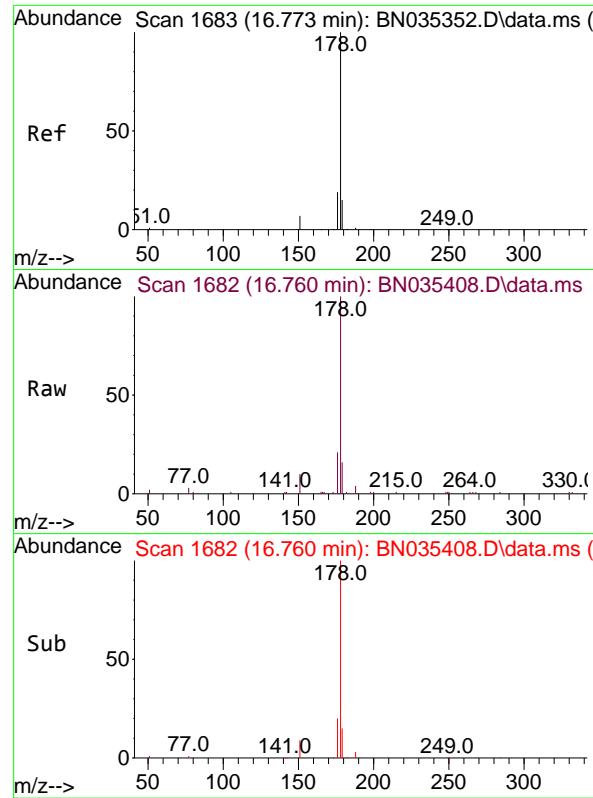
Ion Ratio Lower Upper

266 100

264 61.8 42.3 63.5

268 65.1 43.3 64.9#

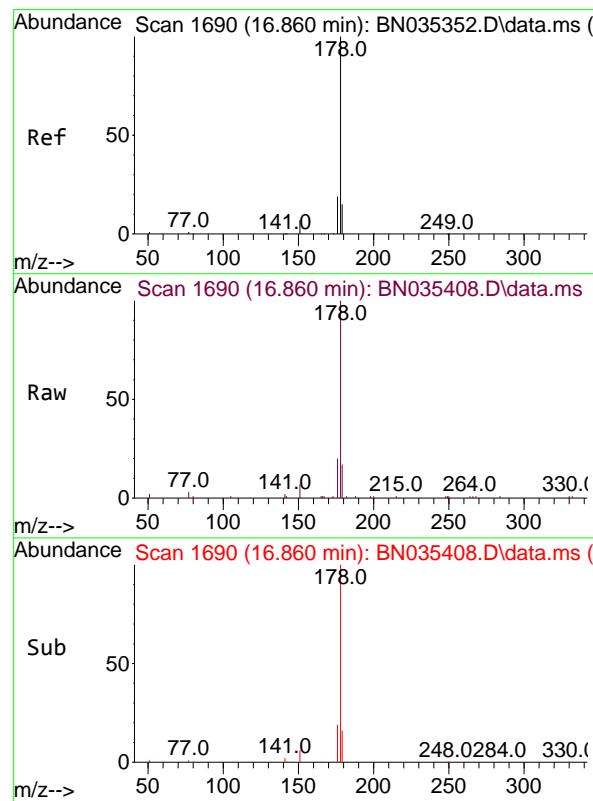
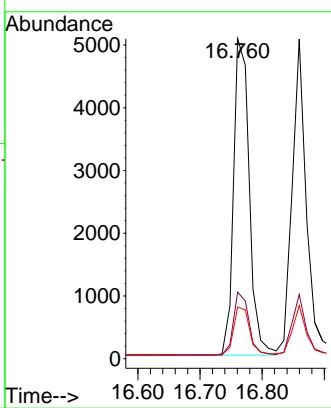




#25
Phenanthrene
Concen: 0.389 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

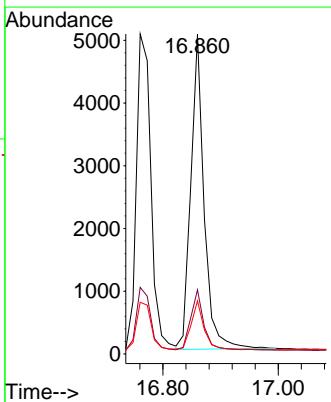
Instrument : BNA_N
ClientSampleId : PB165348BS

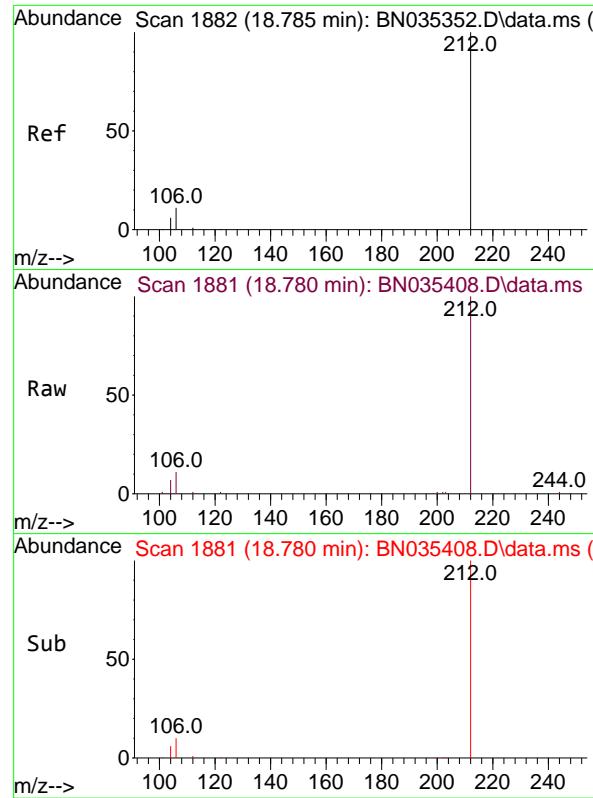
Tgt Ion:178 Resp: 8896
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.2
179 15.3 12.3 18.5



#26
Anthracene
Concen: 0.388 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:178 Resp: 8036
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.3 12.6 18.8

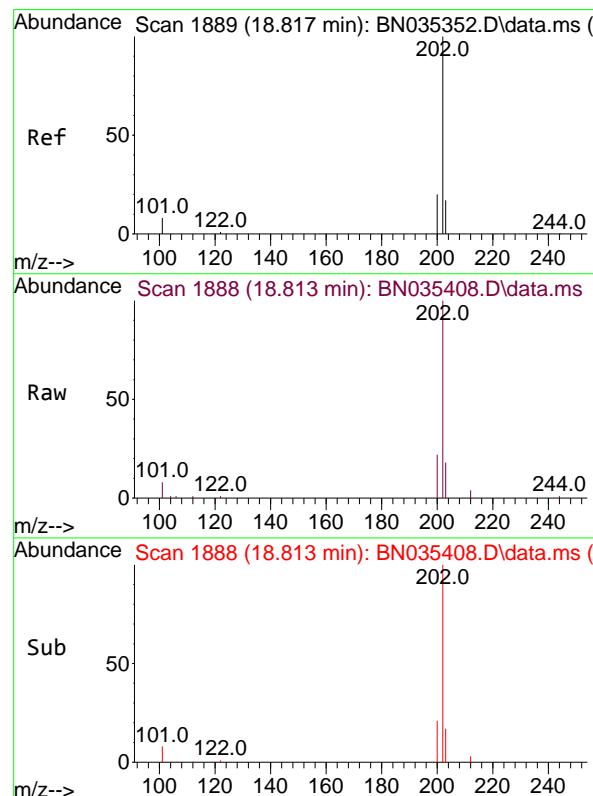
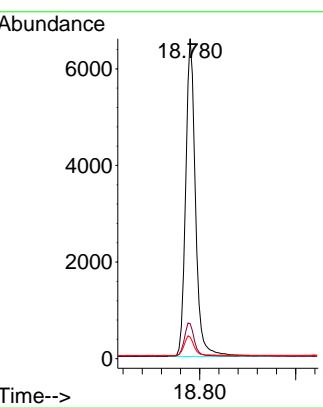




#27
 Fluoranthene-d10
 Concen: 0.398 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

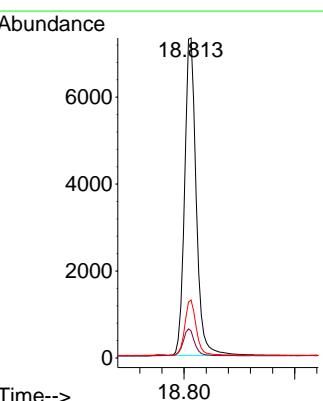
Instrument : BNA_N
 ClientSampleId : PB165348BS

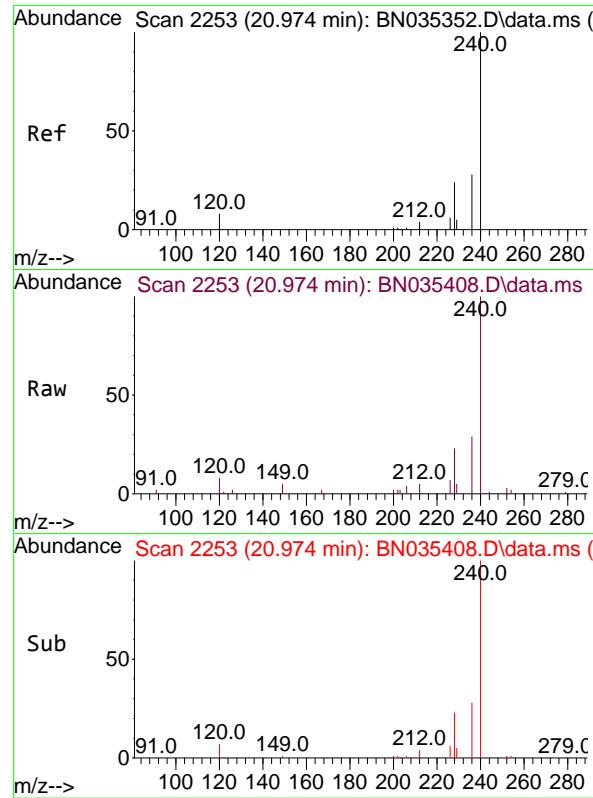
Tgt Ion:212 Resp: 9414
 Ion Ratio Lower Upper
 212 100
 106 10.6 9.2 13.8
 104 6.2 5.3 7.9



#28
 Fluoranthene
 Concen: 0.347 ng
 RT: 18.813 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Tgt Ion:202 Resp: 10698
 Ion Ratio Lower Upper
 202 100
 101 8.5 7.4 11.0
 203 16.9 13.7 20.5





#29

Chrysene-d₁₂

Concen: 0.400 ng

RT: 20.974 min Scan# 2

Instrument : BNA_N

Delta R.T. 0.000 min

Lab File: BN035408.D ClientSampleId :

Acq: 03 Dec 2024 18:13 PB165348BS

Tgt Ion:240 Resp: 7507

Ion Ratio Lower Upper

240 100

120 8.3 7.9 11.9

236 28.9 22.9 34.3

Abundance

5000

4000

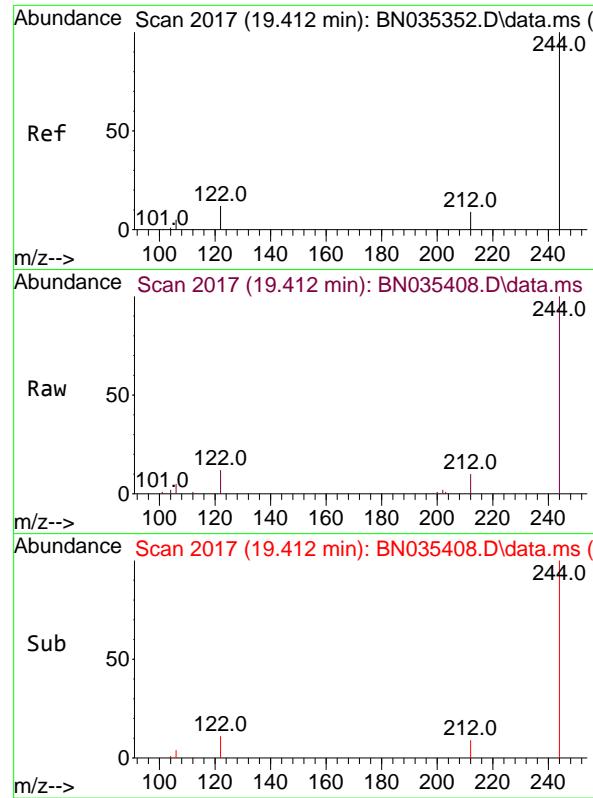
3000

2000

1000

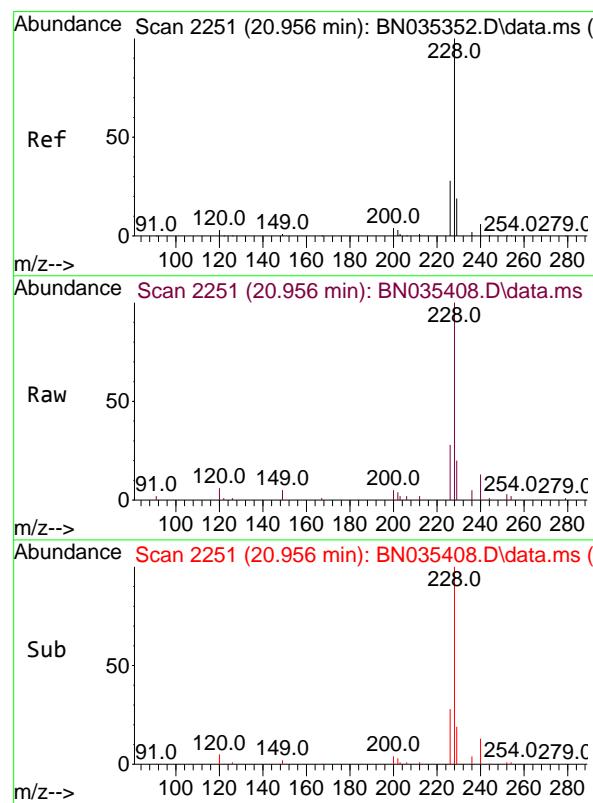
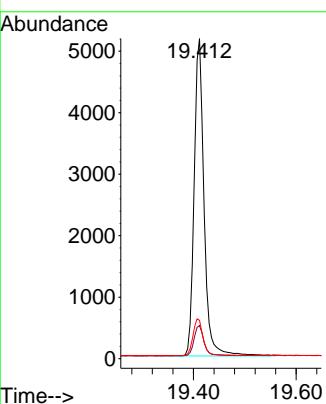
0

Time--> 20.80 21.00



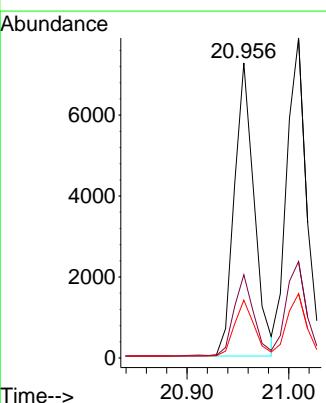
#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.412 min Scan# 2
Instrument: BNA_N
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13
ClientSampleId : PB165348BS

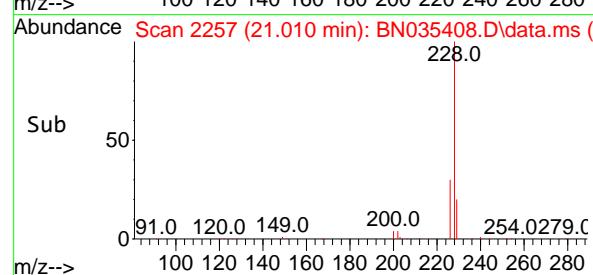
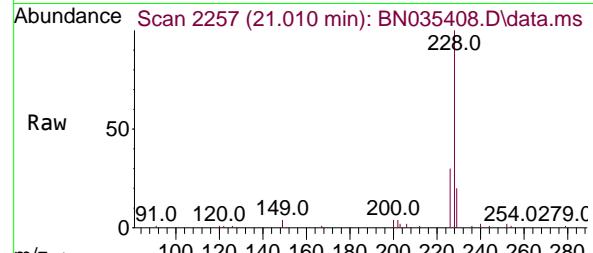
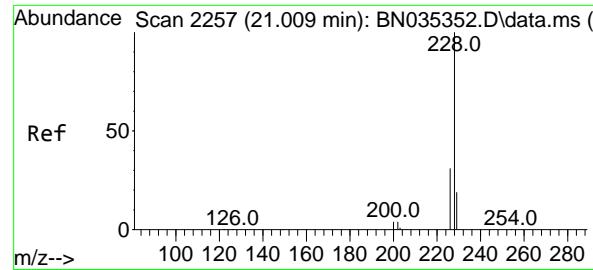
Tgt Ion:244 Resp: 6867
Ion Ratio Lower Upper
244 100
212 10.4 8.1 12.1
122 12.0 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:228 Resp: 9786
Ion Ratio Lower Upper
228 100
226 28.2 22.5 33.7
229 19.6 15.8 23.8





#33

Chrysene

Concen: 0.406 ng

RT: 21.010 min Scan# 2

Instrument : BNA_N

Delta R.T. 0.000 min

Lab File: BN035408.D ClientSampleId :

Acq: 03 Dec 2024 18:13 PB165348BS

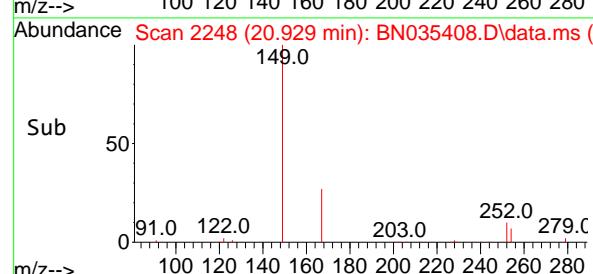
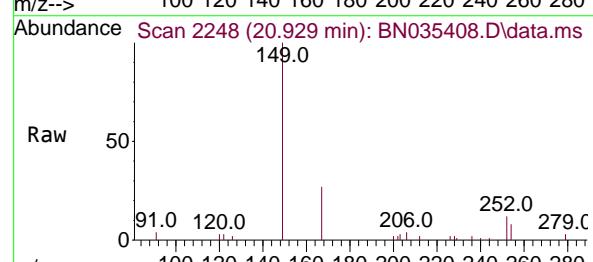
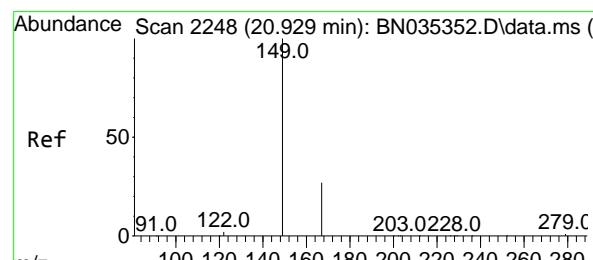
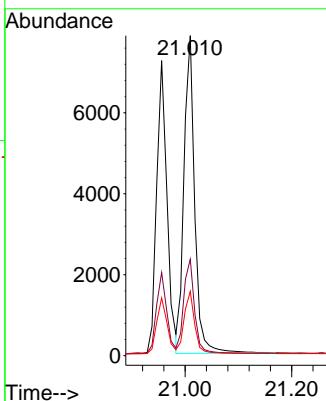
Tgt Ion:228 Resp: 10984

Ion Ratio Lower Upper

228 100

226 30.1 24.6 37.0

229 20.1 15.9 23.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.357 ng

RT: 20.929 min Scan# 2248

Delta R.T. 0.000 min

Lab File: BN035408.D

Acq: 03 Dec 2024 18:13

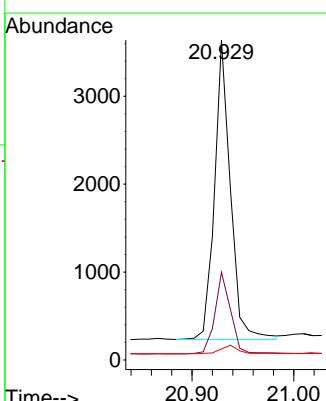
Tgt Ion:149 Resp: 3698

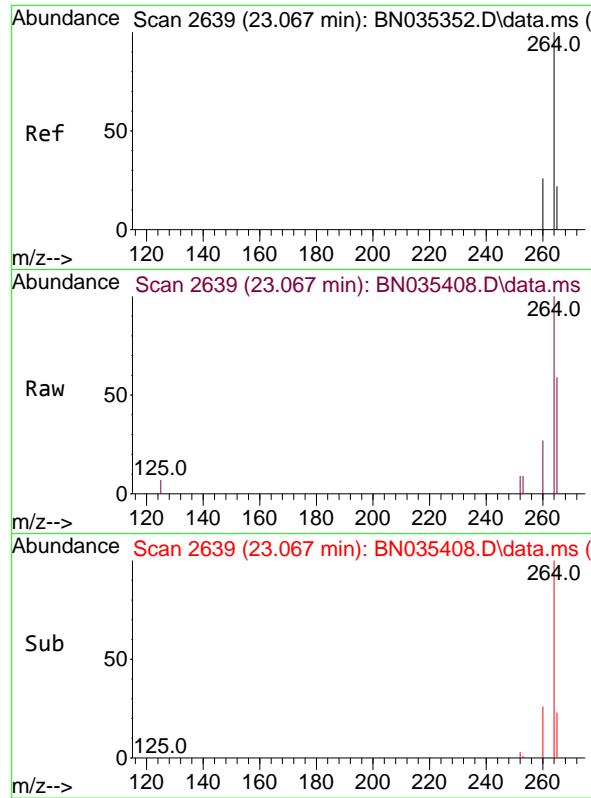
Ion Ratio Lower Upper

149 100

167 27.2 22.2 33.4

279 3.3 2.7 4.1

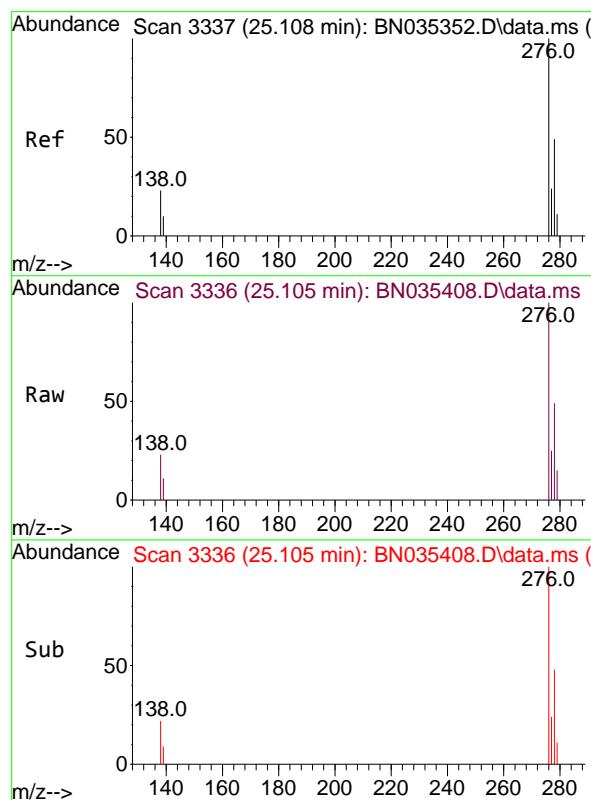
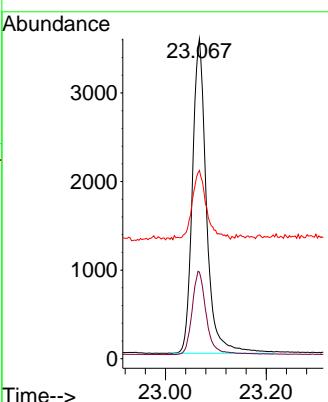




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.067 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

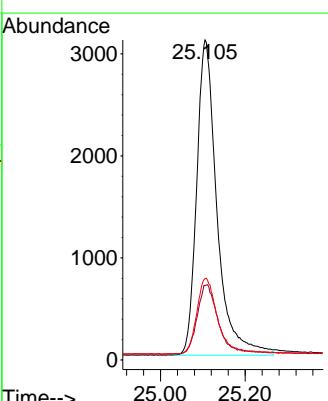
Instrument : BNA_N
ClientSampleId : PB165348BS

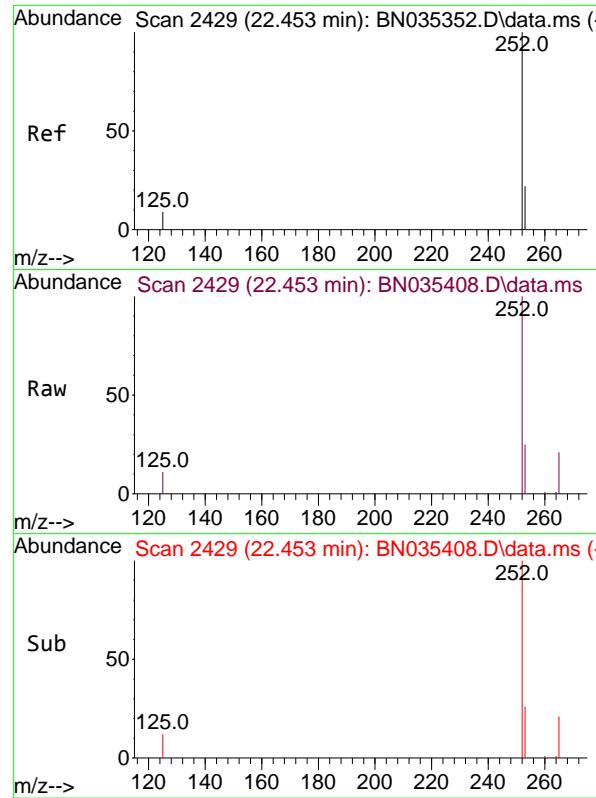
Tgt Ion:264 Resp: 6897
Ion Ratio Lower Upper
264 100
260 27.1 21.4 32.2
265 58.8 40.2 60.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.105 min Scan# 3336
Delta R.T. -0.003 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:276 Resp: 10275
Ion Ratio Lower Upper
276 100
138 22.2 19.4 29.0
277 24.3 19.8 29.6

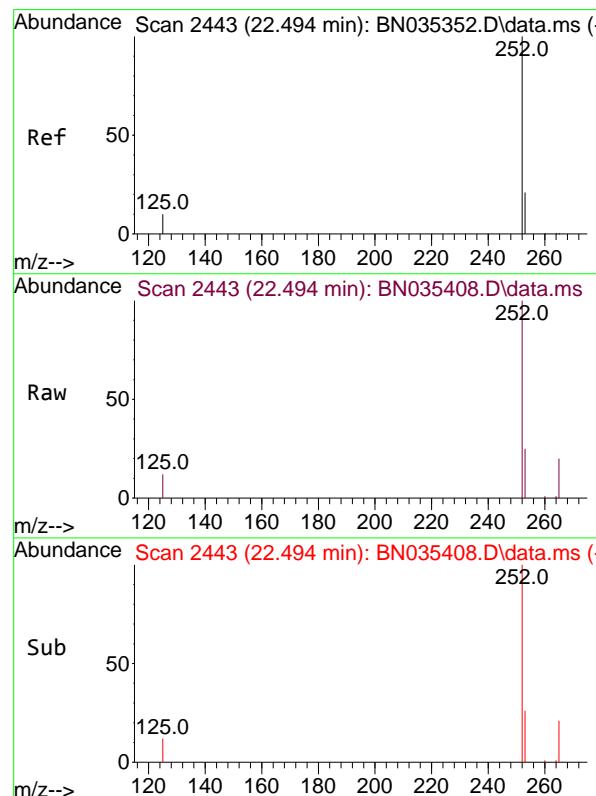
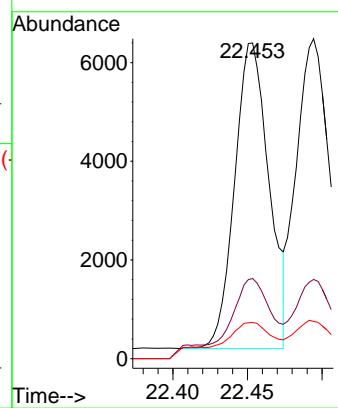




#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 22.453 min Scan# 2429
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

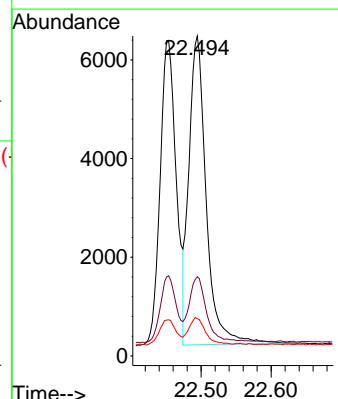
Instrument : BNA_N
ClientSampleId : PB165348BS

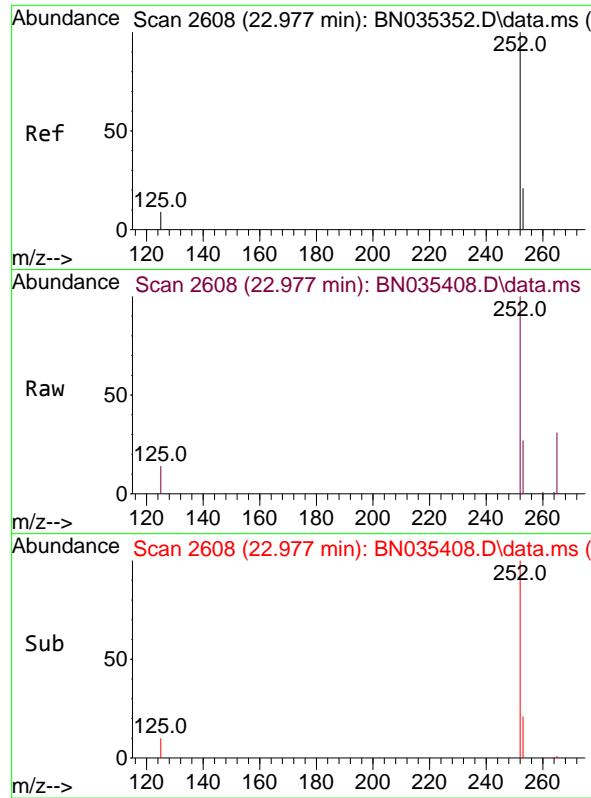
Tgt Ion:252 Resp: 9922
Ion Ratio Lower Upper
252 100
253 25.4 19.6 29.4
125 11.5 9.6 14.4



#38
Benzo(k)fluoranthene
Concen: 0.432 ng
RT: 22.494 min Scan# 2443
Delta R.T. 0.000 min
Lab File: BN035408.D
Acq: 03 Dec 2024 18:13

Tgt Ion:252 Resp: 10718
Ion Ratio Lower Upper
252 100
253 24.7 19.5 29.3
125 11.6 10.2 15.4

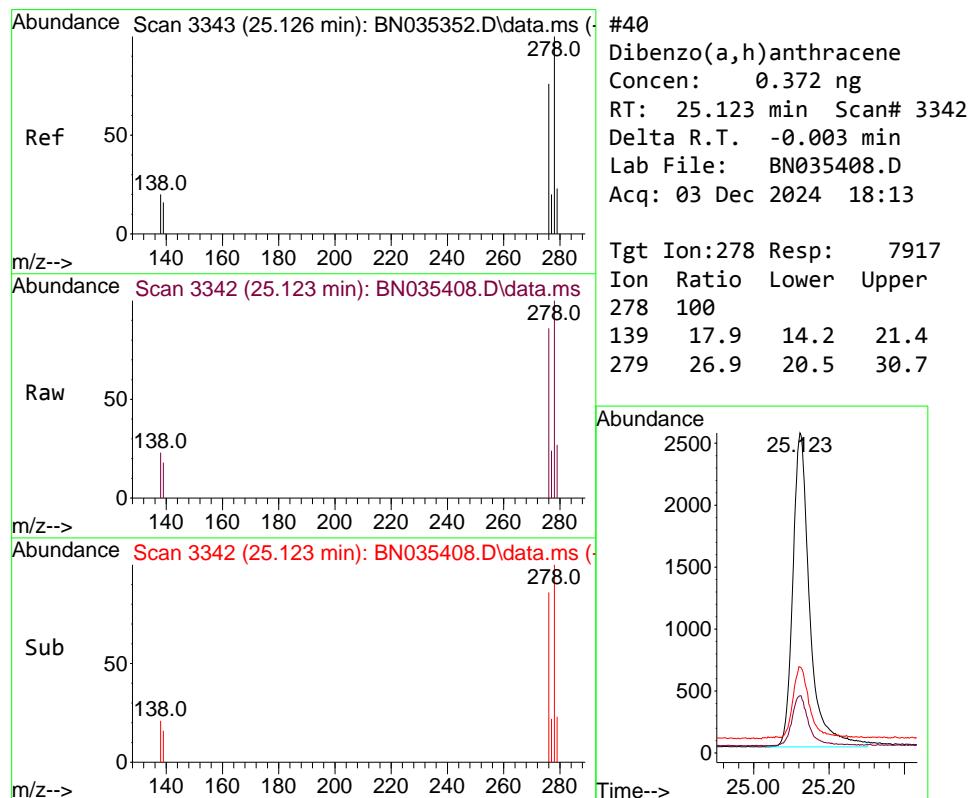
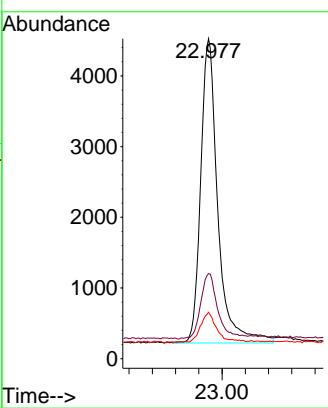




#39
 Benzo(a)pyrene
 Concen: 0.423 ng
 RT: 22.977 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

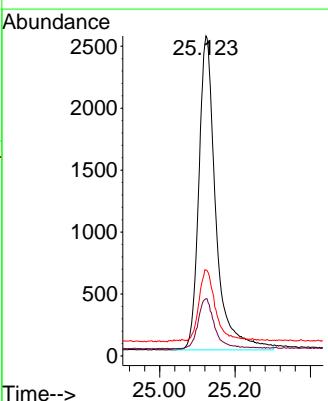
Instrument : BNA_N
 ClientSampleId : PB165348BS

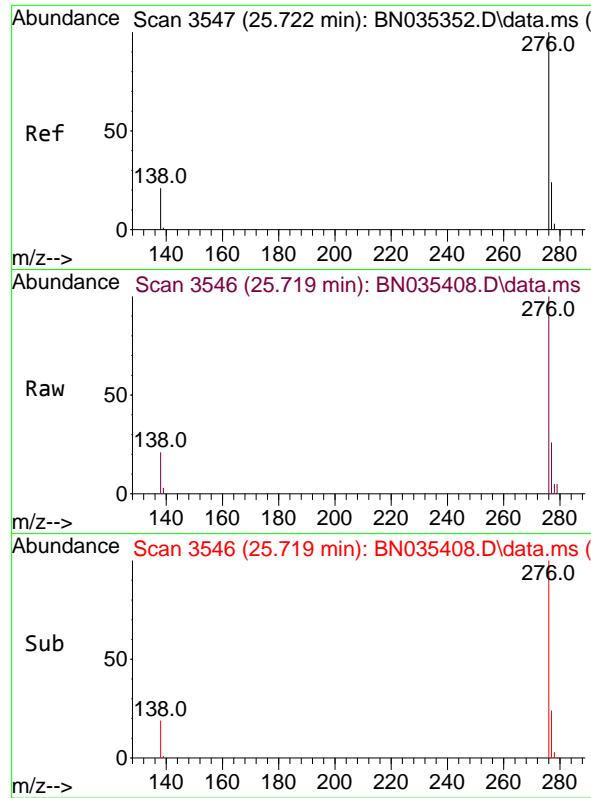
Tgt Ion:252 Resp: 8783
 Ion Ratio Lower Upper
 252 100
 253 26.6 20.2 30.4
 125 14.5 10.9 16.3



#40
 Dibenzo(a,h)anthracene
 Concen: 0.372 ng
 RT: 25.123 min Scan# 3342
 Delta R.T. -0.003 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Tgt Ion:278 Resp: 7917
 Ion Ratio Lower Upper
 278 100
 139 17.9 14.2 21.4
 279 26.9 20.5 30.7

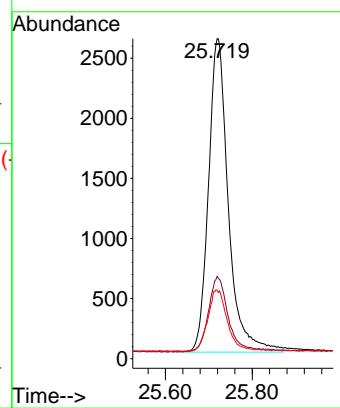




#41
 Benzo(g,h,i)perylene
 Concen: 0.373 ng
 RT: 25.719 min Scan# 3
 Delta R.T. -0.003 min
 Lab File: BN035408.D
 Acq: 03 Dec 2024 18:13

Instrument : BNA_N
 ClientSampleId : PB165348BS

Tgt Ion:276 Resp: 8299
 Ion Ratio Lower Upper
 276 100
 277 25.7 19.9 29.9
 138 21.4 17.8 26.8





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:	PB165348BSD			SDG No.:	P5065
Lab Sample ID:	PB165348BSD			Matrix:	Water
Analytical Method:	SW8270SIM			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL			Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N			Level :	LOW
Injection Volume :	GPC Factor : 1.0			GPC Cleanup :	N PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035409.D	1	12/03/24 12:30	12/03/24 18:48	PB165348

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.57		30 - 150		142%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.51	*	55 - 111		127%	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		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1950	7.301				
1146-65-2	Naphthalene-d8	4690	10.052				
15067-26-2	Acenaphthene-d10	3100	13.957				
1517-22-2	Phenanthrene-d10	7730	16.723				
1719-03-5	Chrysene-d12	7120	20.974				
1520-96-3	Perylene-d12	6600	23.064				

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\BN120424\
 Data File : BN035409.D
 Acq On : 03 Dec 2024 18:48
 Operator : RC/JU
 Sample : PB165348BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BSD

Quant Time: Dec 03 22:05:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

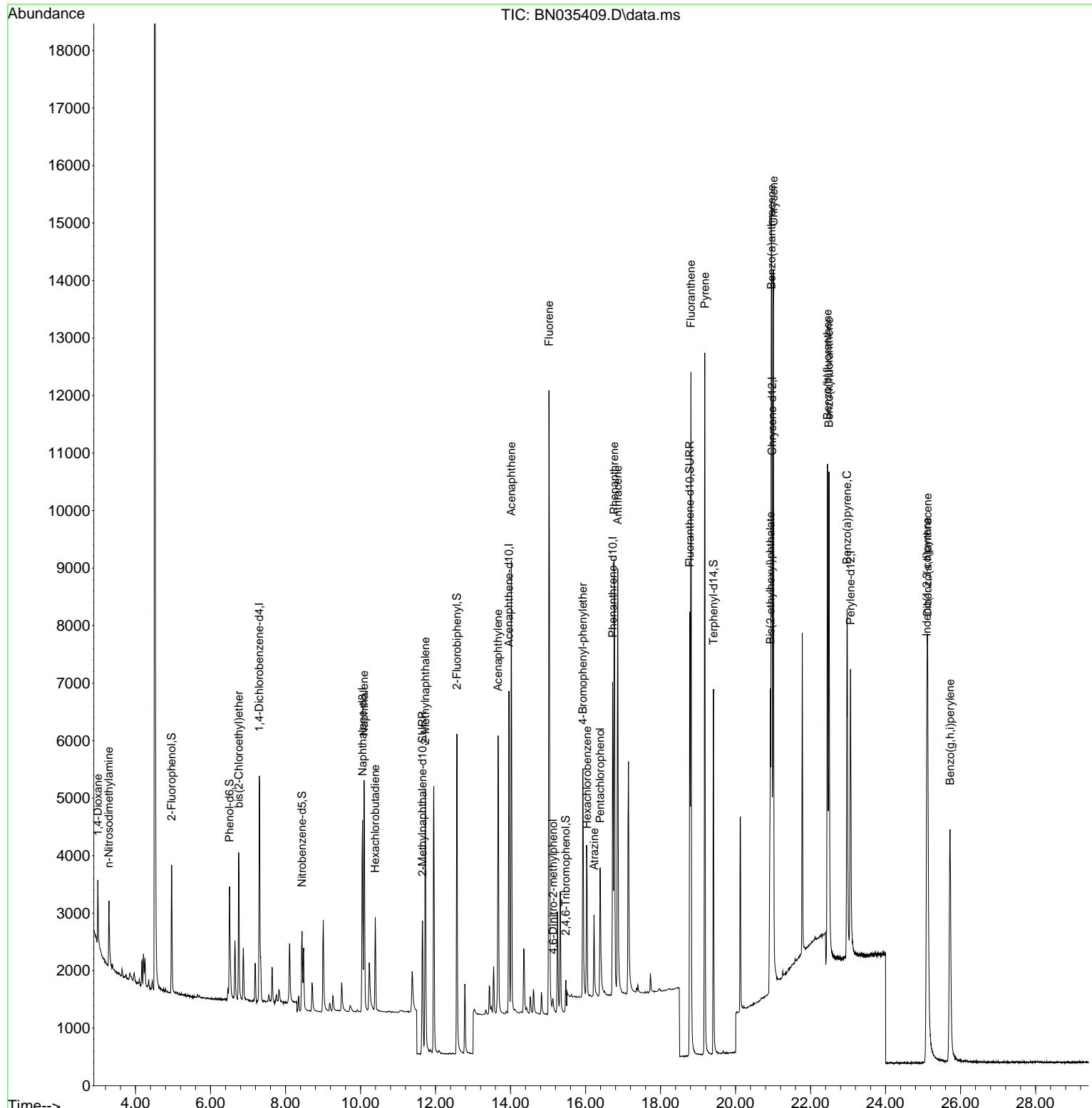
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.301	152	1951	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4691	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3099	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	7726	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	7120	0.400	ng	0.00
35) Perylene-d12	23.064	264	6595	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	1884	0.386	ng	0.00
5) Phenol-d6	6.506	99	2126	0.362	ng	0.00
8) Nitrobenzene-d5	8.440	82	1454	0.507	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	4161	0.567	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	556	0.253	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5400	0.461	ng	0.00
27) Fluoranthene-d10	18.780	212	9439	0.431	ng	0.00
31) Terphenyl-d14	19.412	244	6956	0.495	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	759	0.407	ng	# 80
3) n-Nitrosodimethylamine	3.285	42	676	0.435	ng	# 97
6) bis(2-Chloroethyl)ether	6.752	93	2039	0.413	ng	99
9) Naphthalene	10.095	128	5234	0.423	ng	99
10) Hexachlorobutadiene	10.394	225	1303	0.457	ng	# 99
12) 2-Methylnaphthalene	11.727	142	3629	0.410	ng	99
16) Acenaphthylene	13.668	152	5859	0.450	ng	99
17) Acenaphthene	14.021	154	3729	0.432	ng	100
18) Fluorene	15.026	166	5251	0.425	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	293	0.386	ng	89
21) 4-Bromophenyl-phenylether	15.929	248	1930	0.427	ng	# 77
22) Hexachlorobenzene	16.040	284	2303	0.434	ng	99
23) Atrazine	16.227	200	1258	0.391	ng	97
24) Pentachlorophenol	16.388	266	1409	0.610	ng	# 85
25) Phenanthrene	16.760	178	9175	0.432	ng	100
26) Anthracene	16.860	178	8313	0.433	ng	99
28) Fluoranthene	18.813	202	11171	0.390	ng	99
30) Pyrene	19.180	202	11404	0.434	ng	100
32) Benzo(a)anthracene	20.956	228	10285	0.413	ng	99
33) Chrysene	21.009	228	11567	0.450	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3938	0.400	ng	99
36) Indeno(1,2,3-cd)pyrene	25.102	276	10891	0.422	ng	98
37) Benzo(b)fluoranthene	22.451	252	15594	0.646	ng	100
38) Benzo(k)fluoranthene	22.491	252	11076	0.466	ng	98
39) Benzo(a)pyrene	22.974	252	8981	0.452	ng	98
40) Dibenzo(a,h)anthracene	25.123	278	8366	0.411	ng	98
41) Benzo(g,h,i)perylene	25.719	276	8782	0.413	ng	100

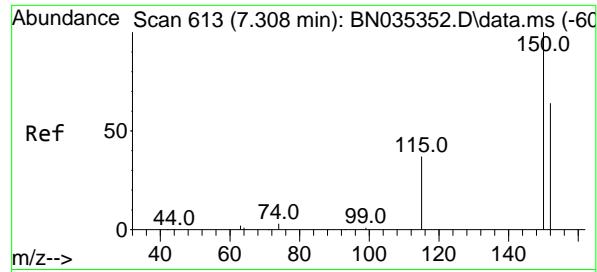
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035409.D
 Acq On : 03 Dec 2024 18:48
 Operator : RC/JU
 Sample : PB165348BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB165348BSD

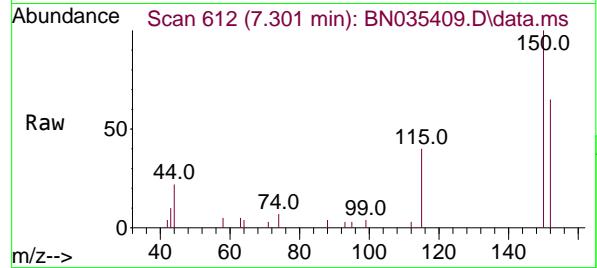
Quant Time: Dec 03 22:05:27 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration



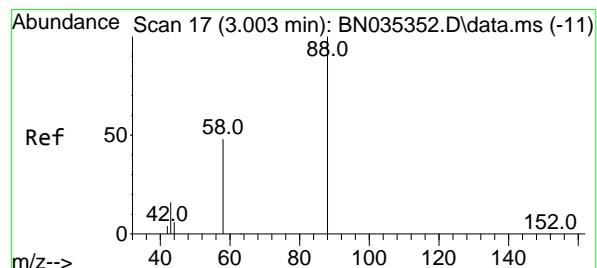
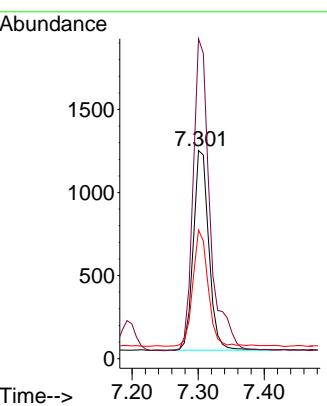
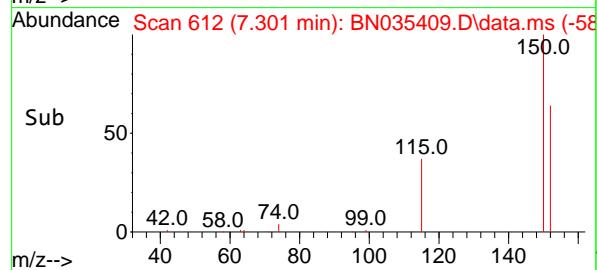


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.301 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

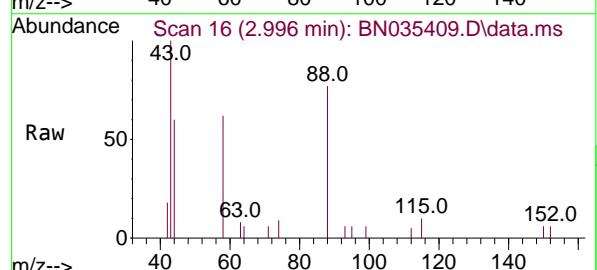
Instrument : BNA_N
ClientSampleId : PB165348BSD



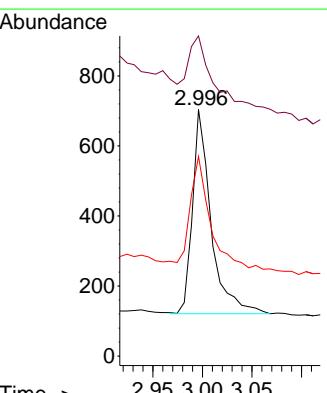
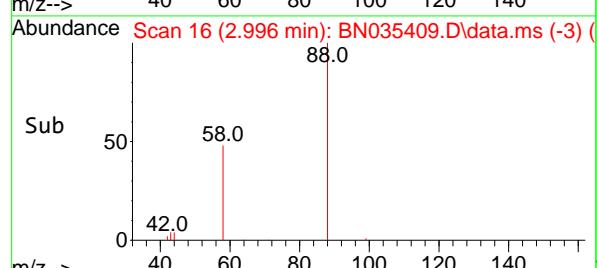
Tgt Ion:152 Resp: 1951
Ion Ratio Lower Upper
152 100
150 153.7 124.0 186.0
115 61.8 49.6 74.4

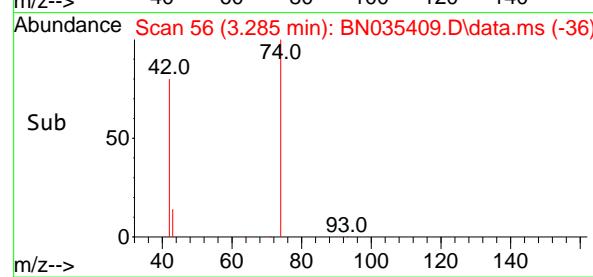
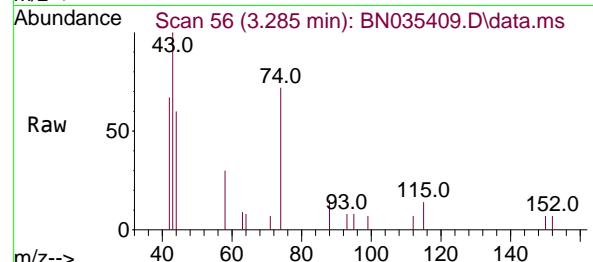
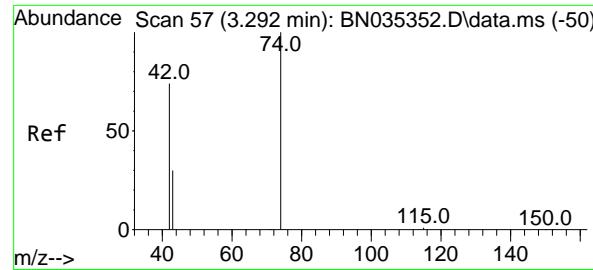


#2
1,4-Dioxane
Concen: 0.407 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48



Tgt Ion: 88 Resp: 759
Ion Ratio Lower Upper
88 100
43 48.6 17.2 25.8#
58 59.2 44.5 66.7





#3

n-Nitrosodimethylamine

Concen: 0.435 ng

RT: 3.285 min Scan# 5

Delta R.T. -0.007 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument:

BNA_N

ClientSampleId :

PB165348BSD

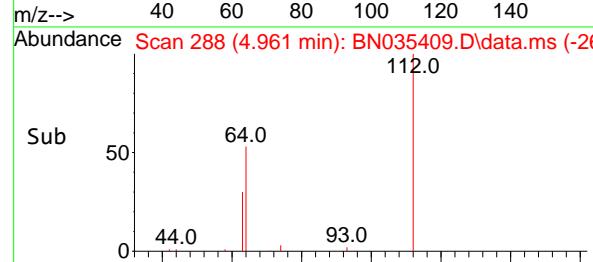
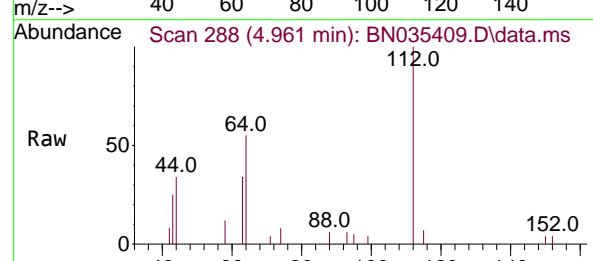
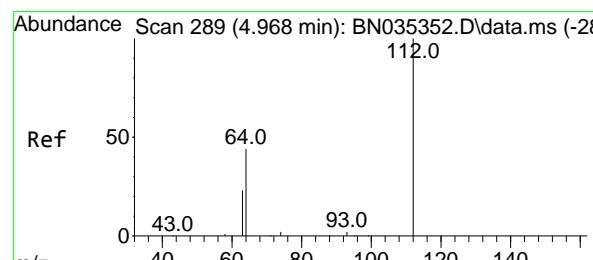
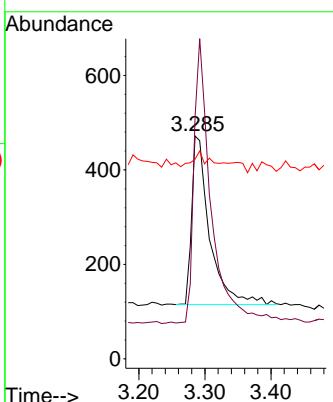
Tgt Ion: 42 Resp: 676

Ion Ratio Lower Upper

42 100

74 160.1 124.9 187.3

44 6.7 2.2 3.4#



#4

2-Fluorophenol

Concen: 0.386 ng

RT: 4.961 min Scan# 288

Delta R.T. -0.007 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

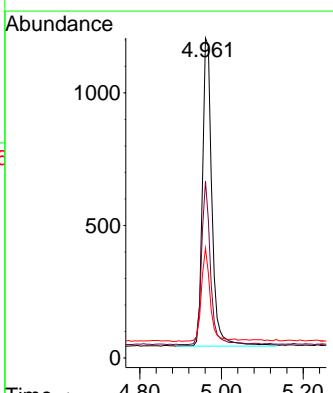
Tgt Ion: 112 Resp: 1884

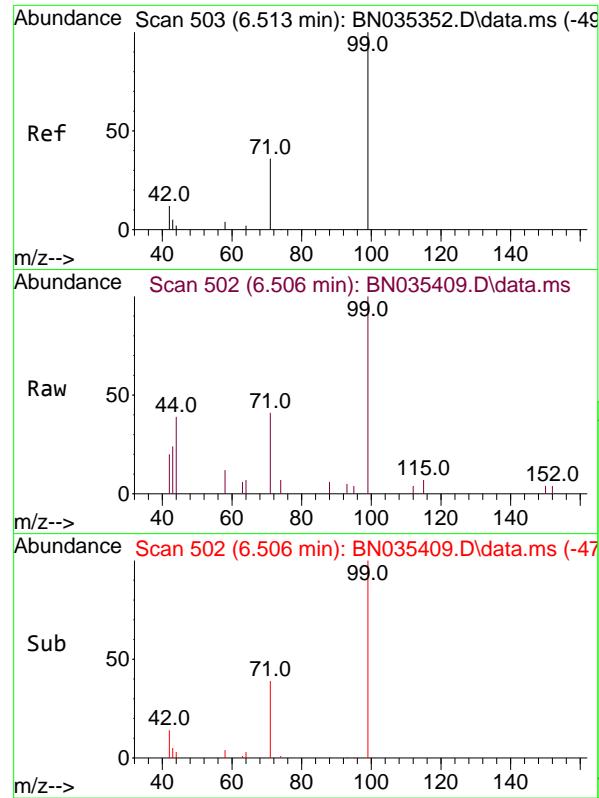
Ion Ratio Lower Upper

112 100

64 49.2 39.8 59.8

63 27.5 21.0 31.6

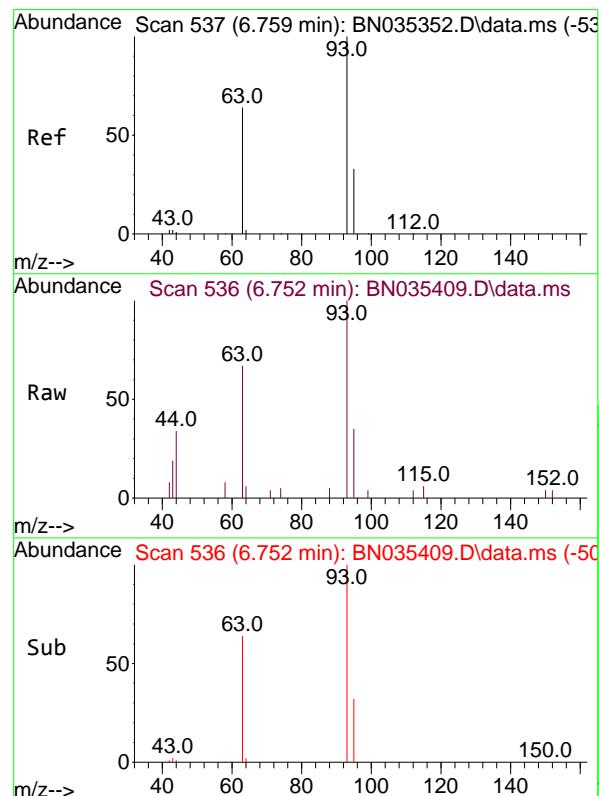
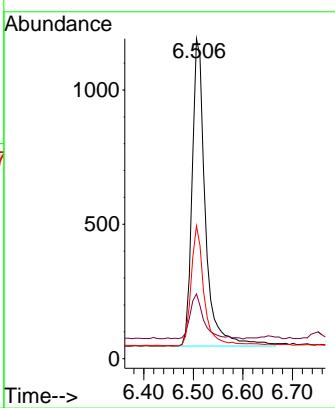




#5
 Phenol-d6
 Concen: 0.362 ng
 RT: 6.506 min Scan# 5
 Delta R.T. -0.007 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

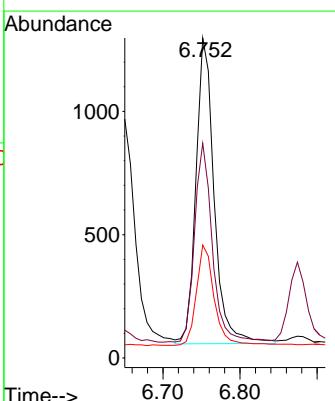
Instrument : BNA_N
 ClientSampleId : PB165348BSD

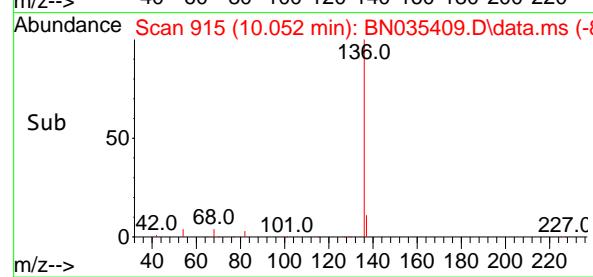
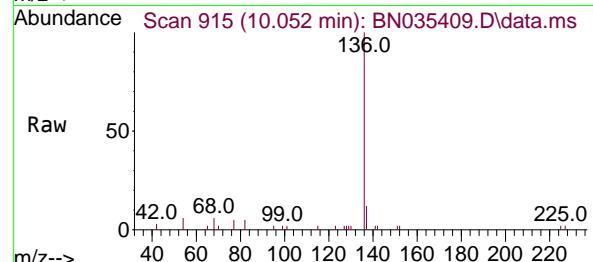
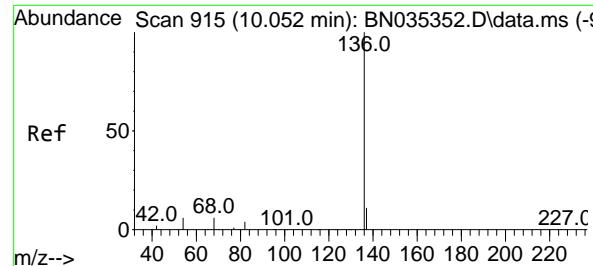
Tgt Ion: 99 Resp: 2126
 Ion Ratio Lower Upper
 99 100
 42 15.3 11.4 17.2
 71 38.8 29.3 43.9



#6
 bis(2-Chloroethyl)ether
 Concen: 0.413 ng
 RT: 6.752 min Scan# 536
 Delta R.T. -0.007 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion: 93 Resp: 2039
 Ion Ratio Lower Upper
 93 100
 63 63.6 50.4 75.6
 95 32.7 25.7 38.5

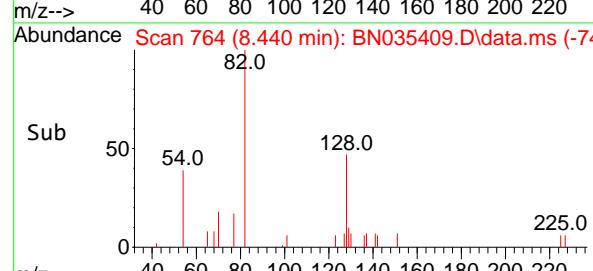
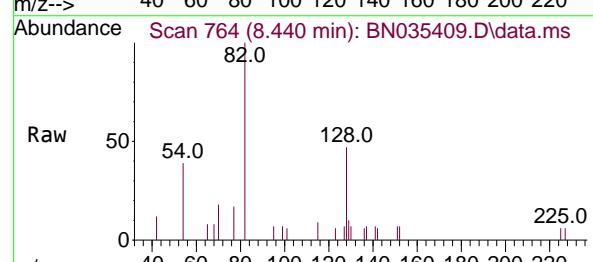
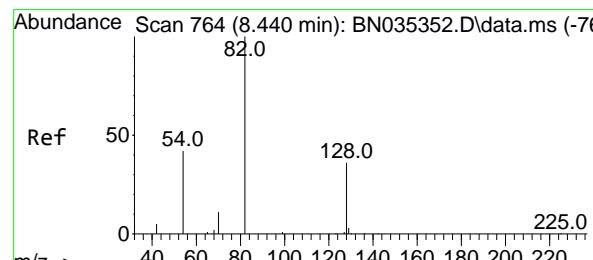
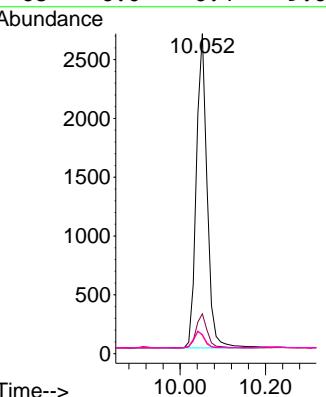




#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

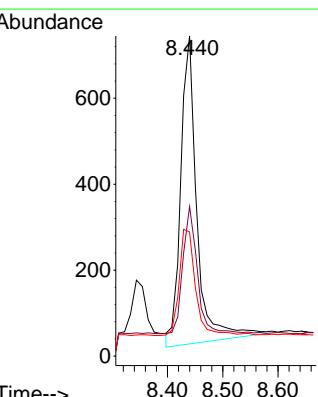
Instrument :
 BNA_N
 ClientSampleId :
 PB165348BSD

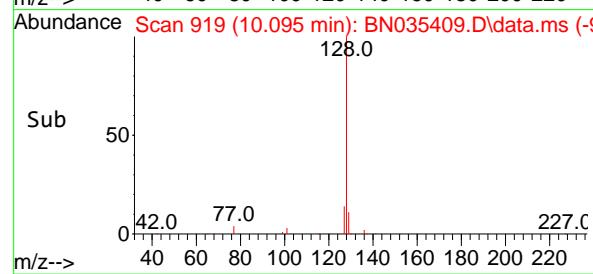
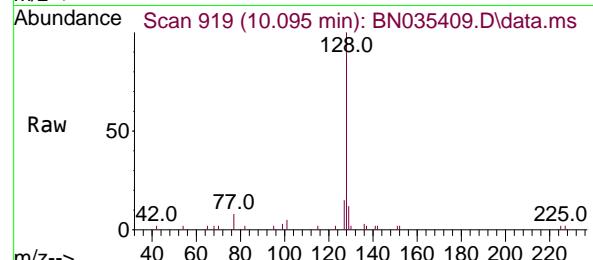
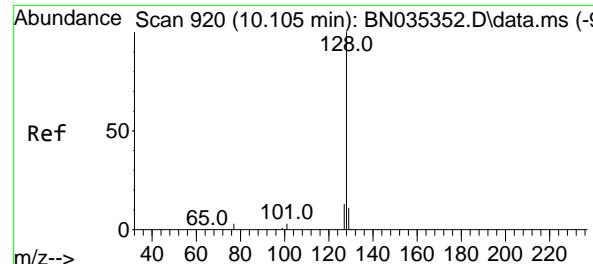
Tgt Ion:136 Resp: 4691
 Ion Ratio Lower Upper
 136 100
 137 12.5 10.2 15.2
 54 5.7 6.1 9.1#
 68 6.0 6.4 9.6#



#8
 Nitrobenzene-d5
 Concen: 0.507 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion: 82 Resp: 1454
 Ion Ratio Lower Upper
 82 100
 128 46.7 33.4 50.0
 54 38.8 36.7 55.1





#9

Naphthalene

Concen: 0.423 ng

RT: 10.095 min Scan# 9

Delta R.T. -0.011 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument :

BNA_N

ClientSampleId :

PB165348BSD

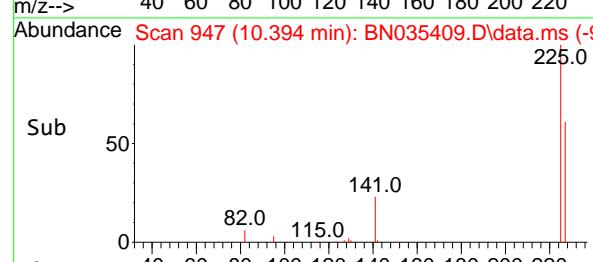
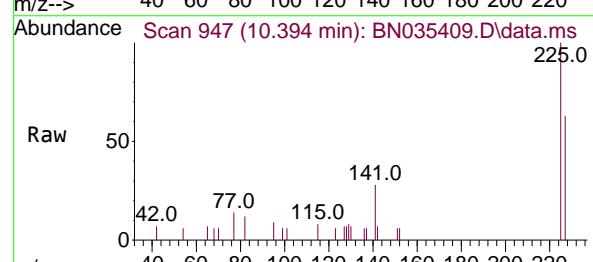
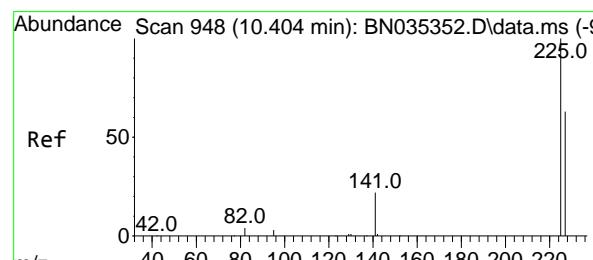
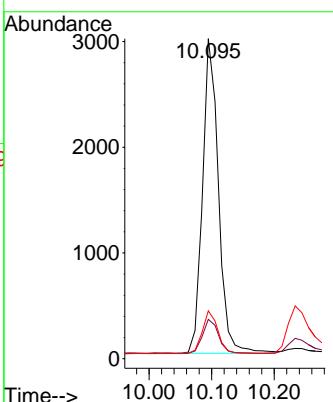
Tgt Ion:128 Resp: 5234

Ion Ratio Lower Upper

128 100

129 12.3 9.8 14.6

127 15.0 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.457 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.011 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

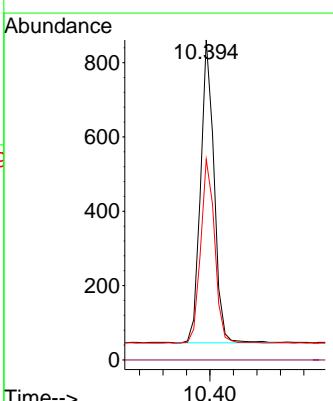
Tgt Ion:225 Resp: 1303

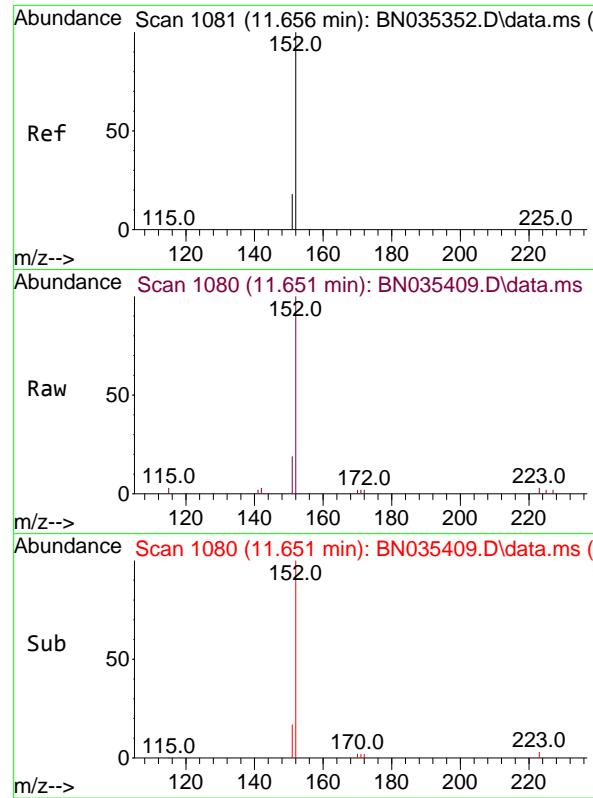
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.2 51.3 76.9

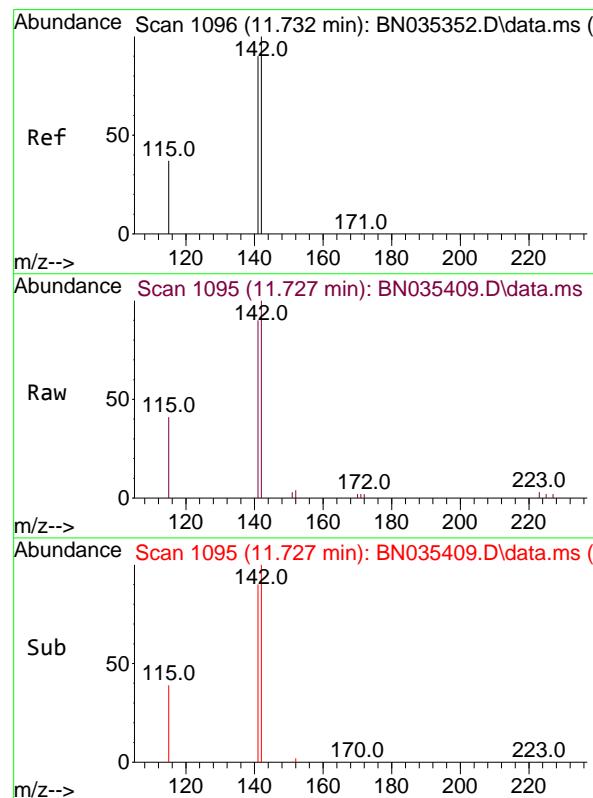
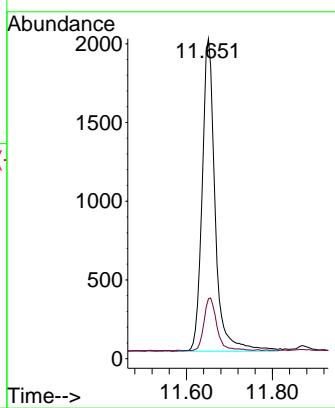




#11
2-Methylnaphthalene-d10
Concen: 0.567 ng
RT: 11.651 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

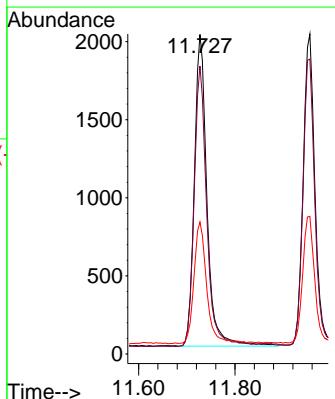
Instrument : BNA_N
ClientSampleId : PB165348BSD

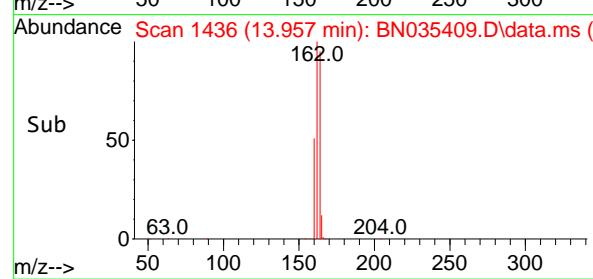
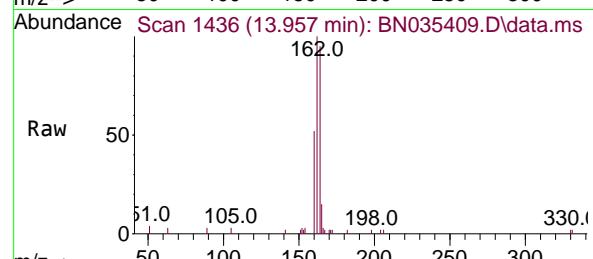
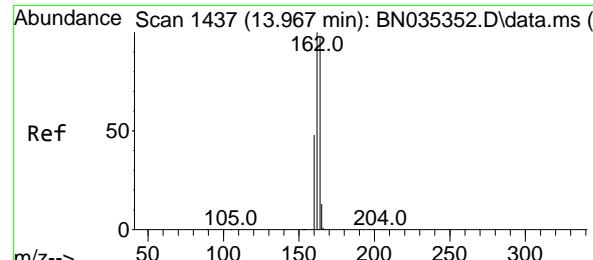
Tgt Ion:152 Resp: 4161
Ion Ratio Lower Upper
152 100
151 16.6 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.410 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:142 Resp: 3629
Ion Ratio Lower Upper
142 100
141 90.1 72.2 108.4
115 41.3 31.4 47.0





#13

Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1436
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Instrument :

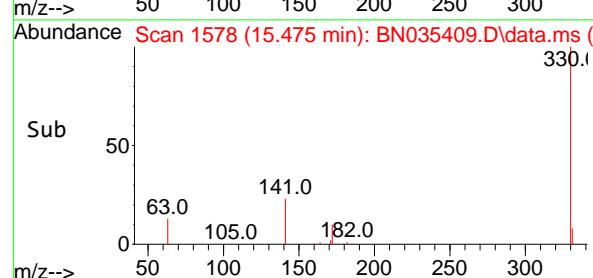
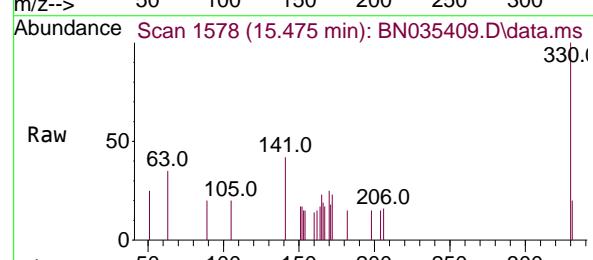
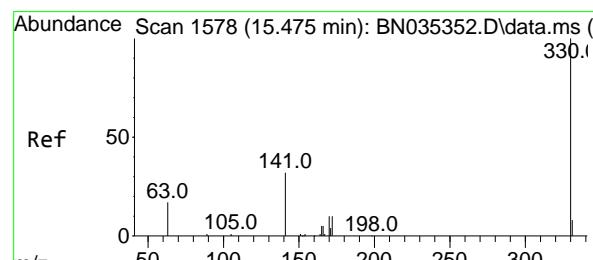
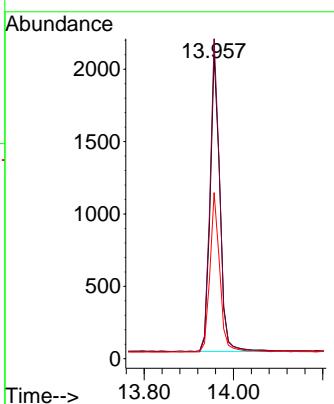
BNA_N

ClientSampleId :

PB165348BSD

Tgt Ion:164 Resp: 3099

Ion	Ratio	Lower	Upper
164	100		
162	105.3	82.2	123.2
160	54.7	40.1	60.1

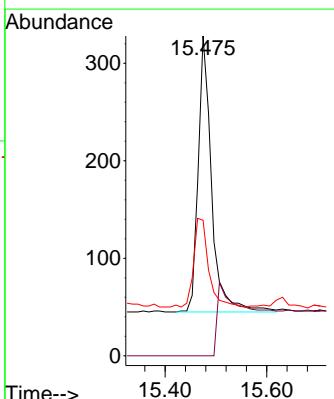


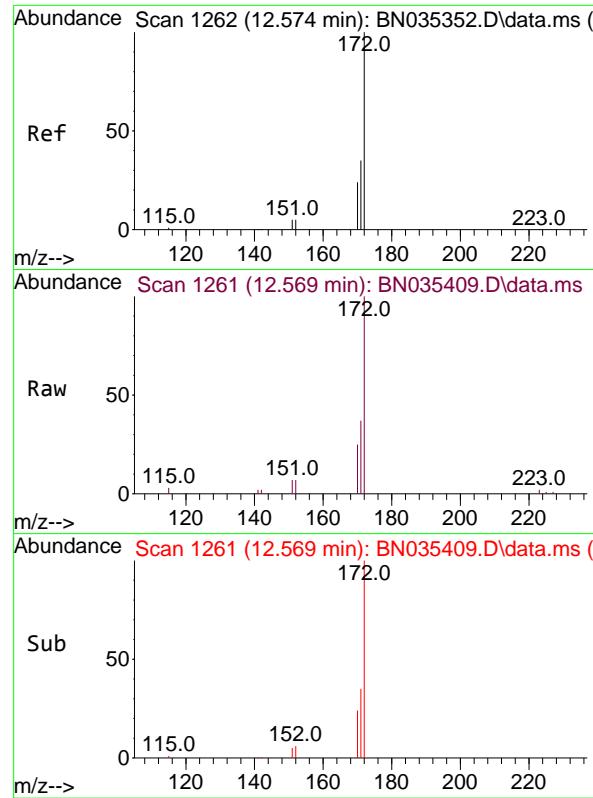
#14

2,4,6-Tribromophenol
Concen: 0.253 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:330 Resp: 556

Ion	Ratio	Lower	Upper
330	100		
332	0.0	0.0	0.0
141	34.7	26.6	40.0

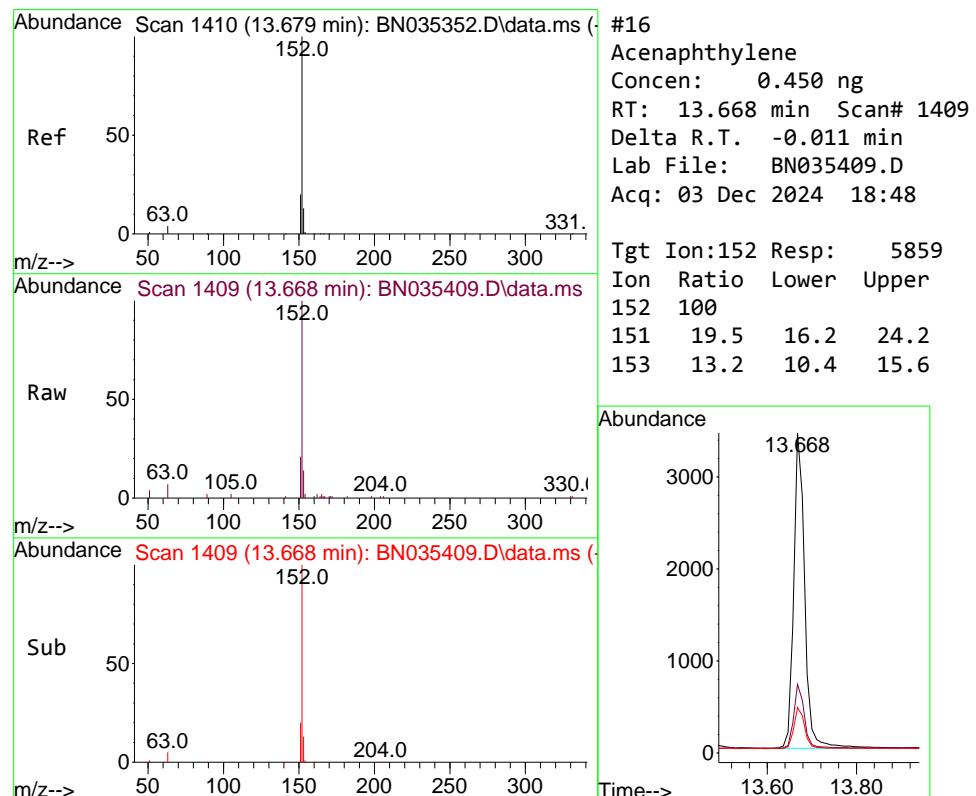
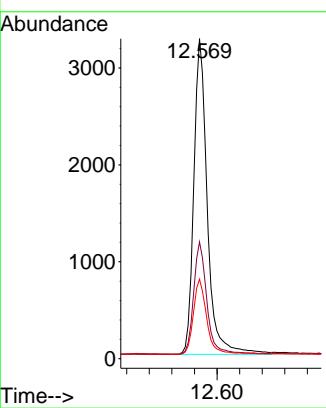




#15
2-Fluorobiphenyl
Concen: 0.461 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

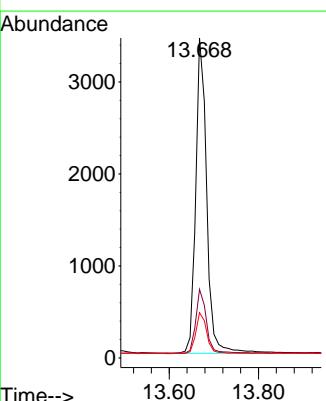
Instrument : BNA_N
ClientSampleId : PB165348BSD

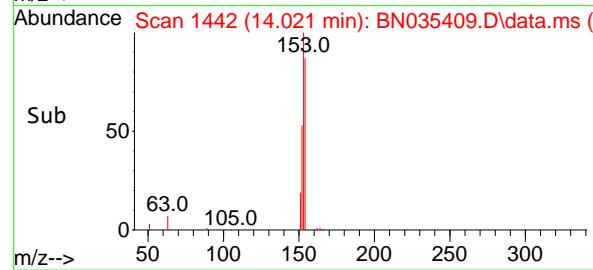
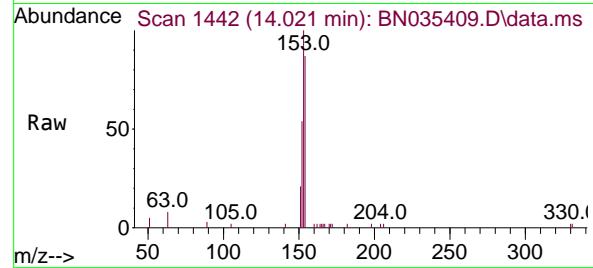
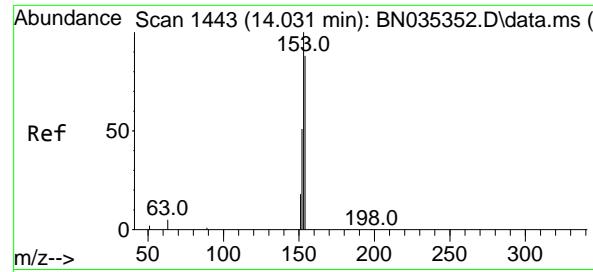
Tgt Ion:172 Resp: 5400
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.8 19.8 29.8



#16
Acenaphthylene
Concen: 0.450 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:152 Resp: 5859
Ion Ratio Lower Upper
152 100
151 19.5 16.2 24.2
153 13.2 10.4 15.6





#17

Acenaphthene

Concen: 0.432 ng

RT: 14.021 min Scan# 1

Delta R.T. -0.011 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument:

BNA_N

ClientSampleId :

PB165348BSD

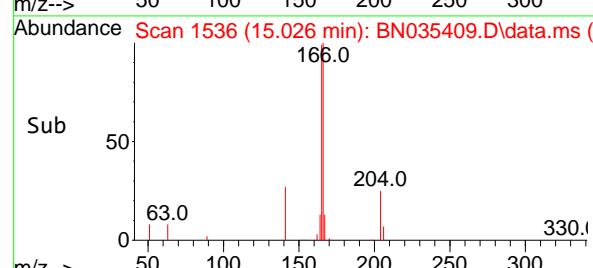
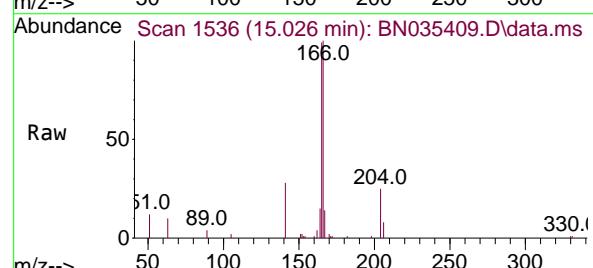
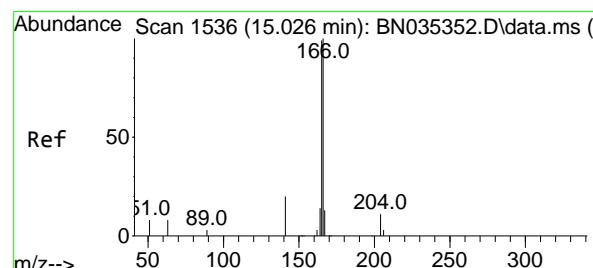
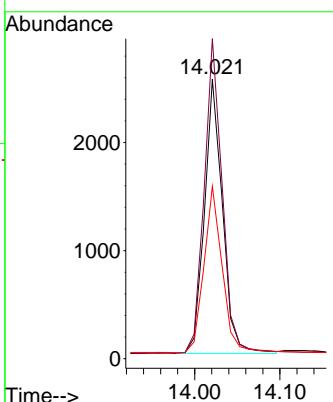
Tgt Ion:154 Resp: 3729

Ion Ratio Lower Upper

154 100

153 116.0 92.6 139.0

152 62.0 49.0 73.6



#18

Fluorene

Concen: 0.425 ng

RT: 15.026 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

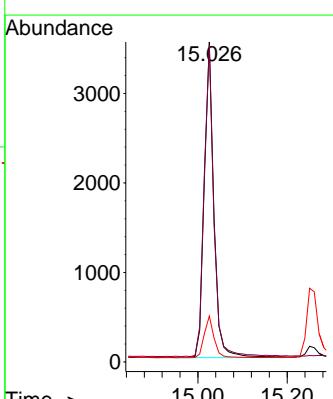
Tgt Ion:166 Resp: 5251

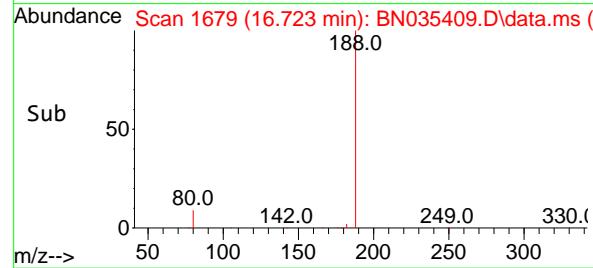
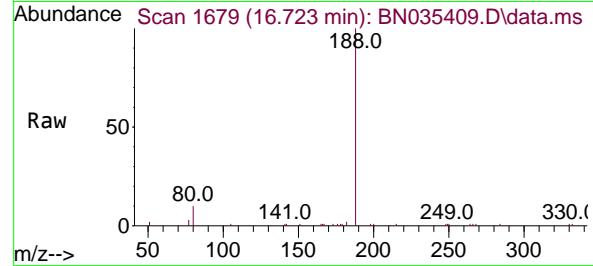
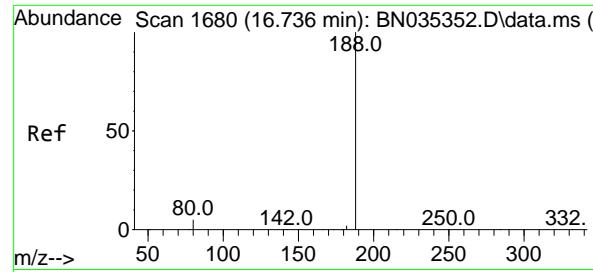
Ion Ratio Lower Upper

166 100

165 99.6 79.7 119.5

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.723 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

Instrument:

BNA_N

ClientSampleId :

PB165348BSD

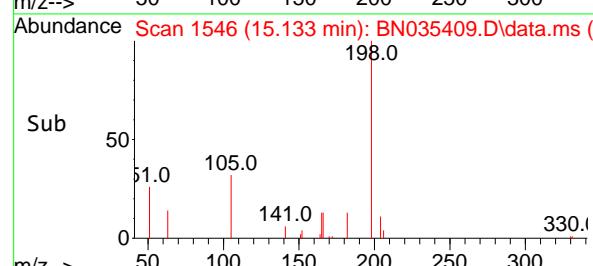
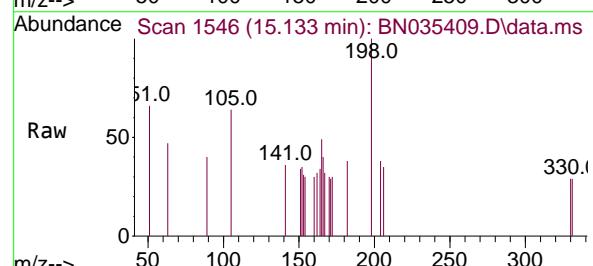
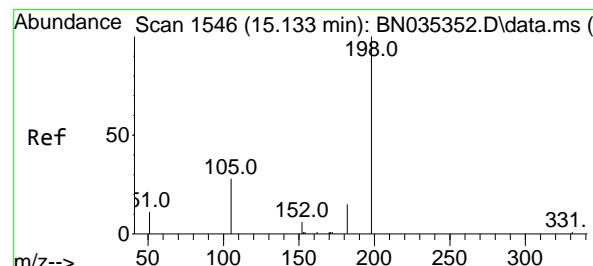
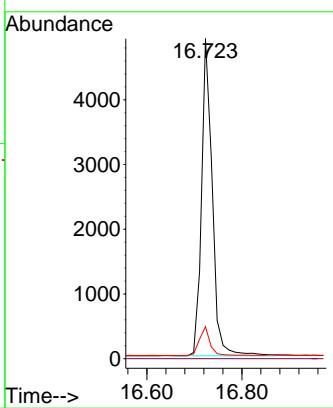
Tgt Ion:188 Resp: 7726

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.0 4.6 6.8#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.386 ng

RT: 15.133 min Scan# 1546

Delta R.T. -0.000 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

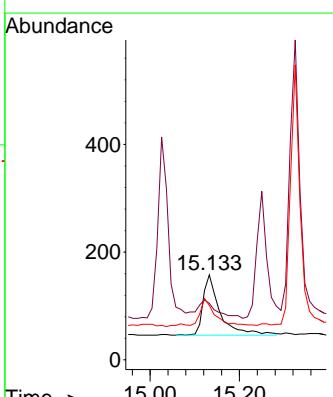
Tgt Ion:198 Resp: 293

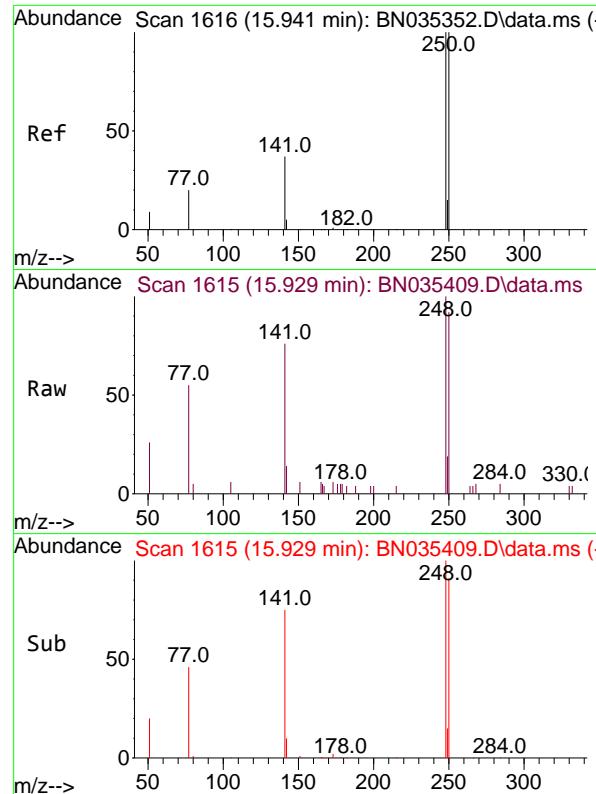
Ion Ratio Lower Upper

198 100

51 66.5 46.5 69.7

105 63.9 45.3 67.9

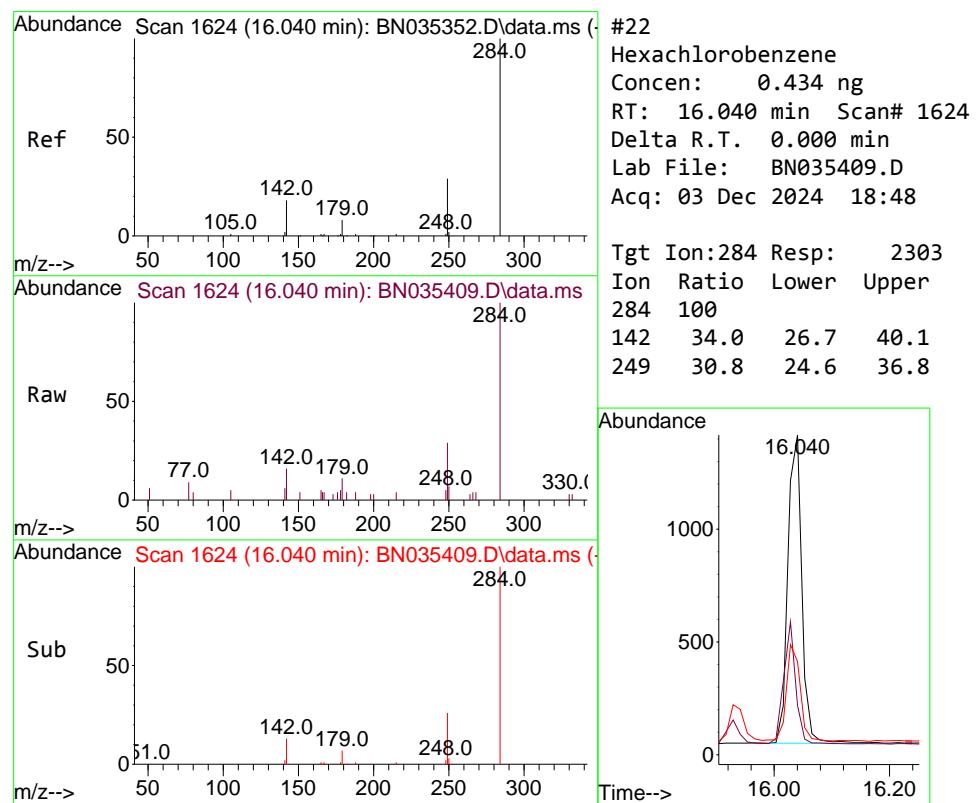
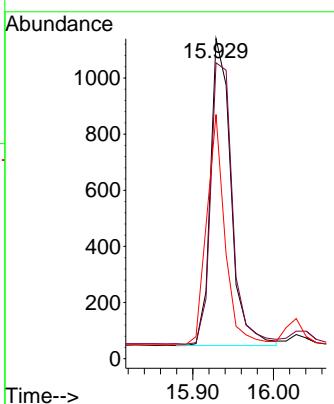




#21
4-Bromophenyl-phenylether
Concen: 0.427 ng
RT: 15.929 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

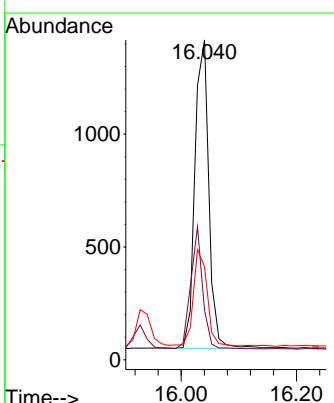
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

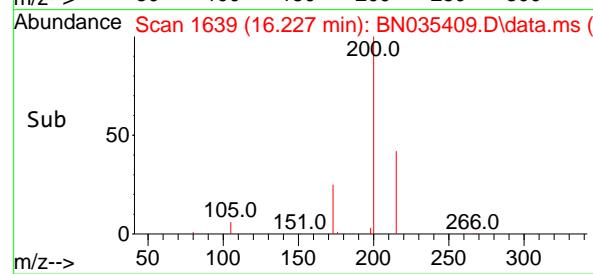
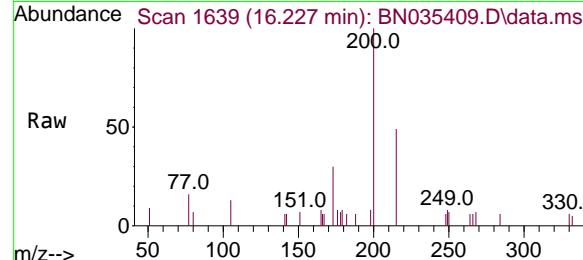
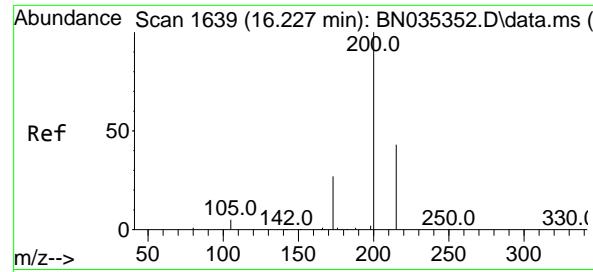
Tgt Ion:248 Resp: 1930
Ion Ratio Lower Upper
248 100
250 92.5 80.6 120.8
141 76.3 31.5 47.3#



#22
Hexachlorobenzene
Concen: 0.434 ng
RT: 16.040 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:284 Resp: 2303
Ion Ratio Lower Upper
284 100
142 34.0 26.7 40.1
249 30.8 24.6 36.8

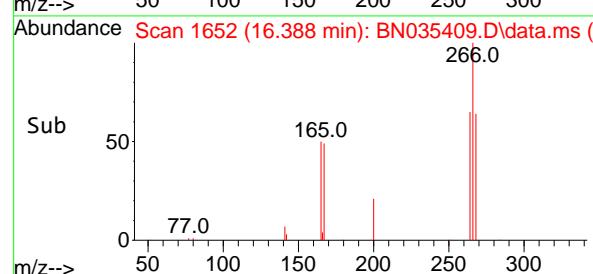
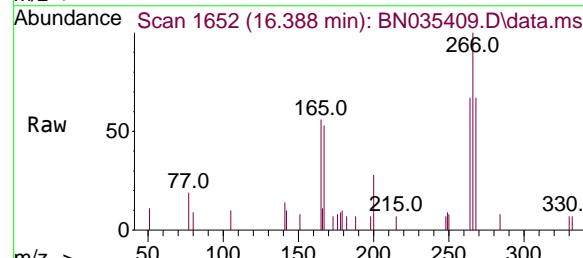
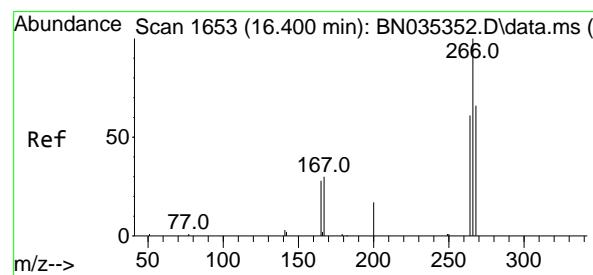
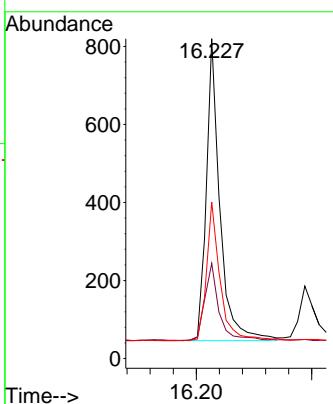




#23
Atrazine
Concen: 0.391 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

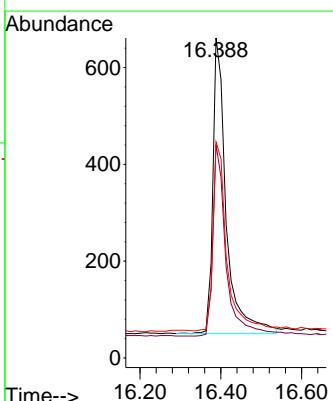
Instrument :
BNA_N
ClientSampleId :
PB165348BSD

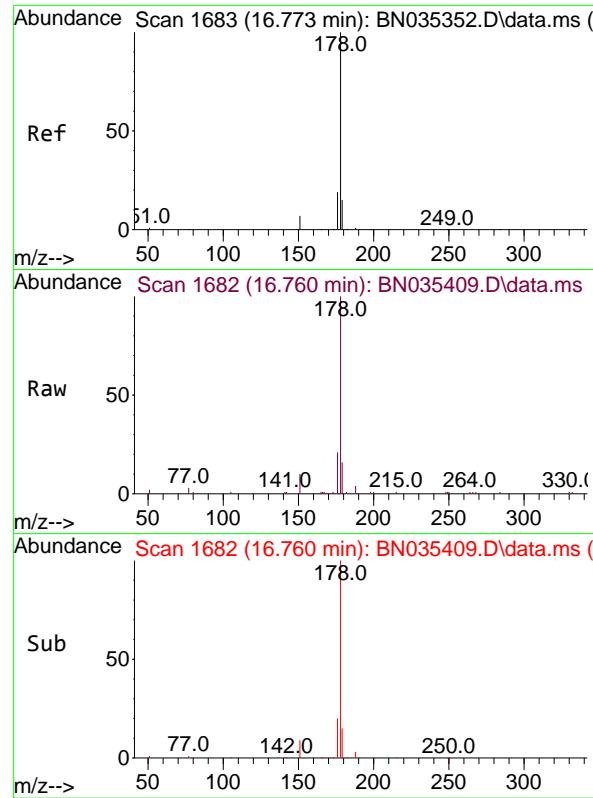
Tgt Ion:200 Resp: 1258
Ion Ratio Lower Upper
200 100
173 29.8 24.1 36.1
215 48.9 36.9 55.3



#24
Pentachlorophenol
Concen: 0.610 ng
RT: 16.388 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:266 Resp: 1409
Ion Ratio Lower Upper
266 100
264 63.7 42.3 63.5#
268 64.9 43.3 64.9

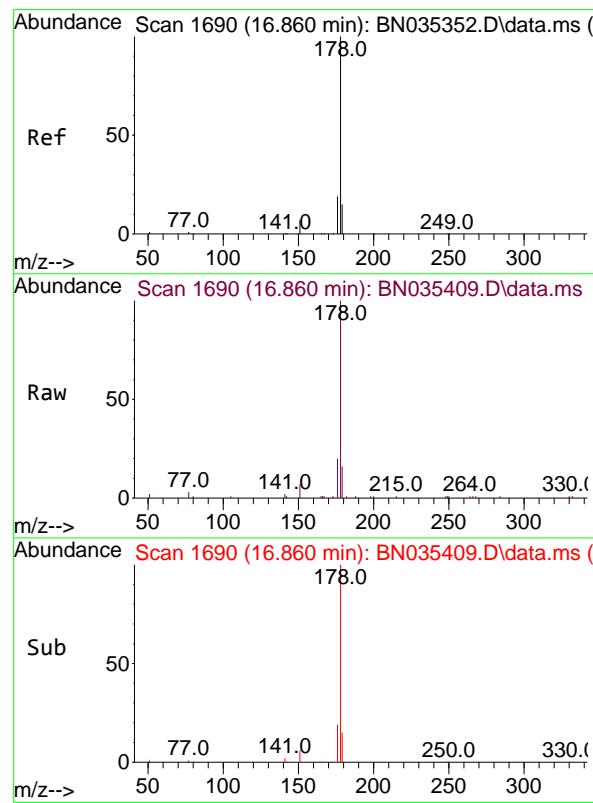
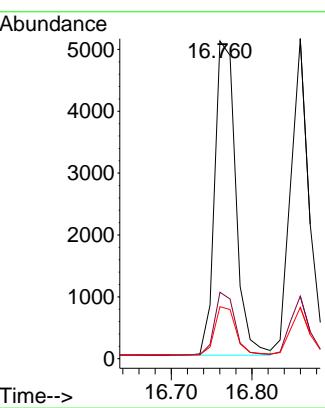




#25
Phenanthrene
Concen: 0.432 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

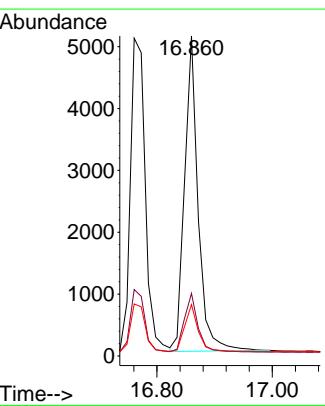
Instrument : BNA_N
ClientSampleId : PB165348BSD

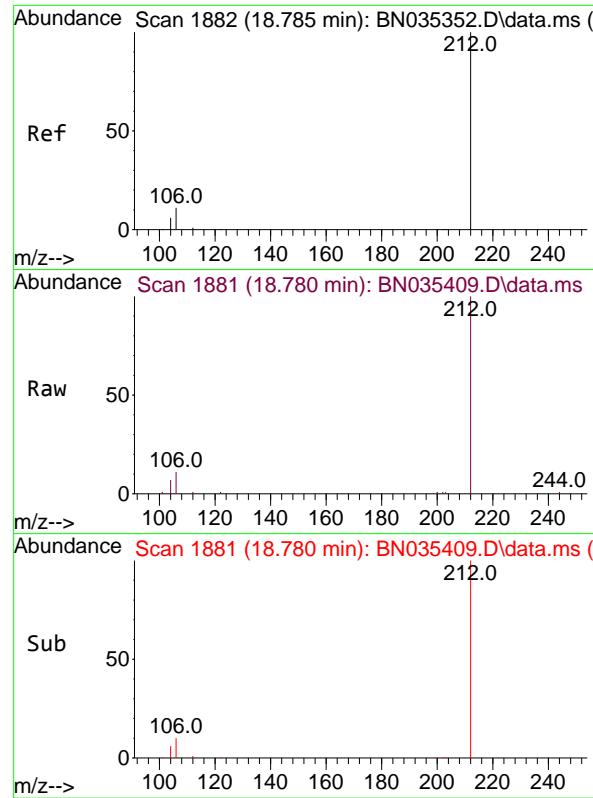
Tgt Ion:178 Resp: 9175
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.433 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:178 Resp: 8313
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.1 12.6 18.8

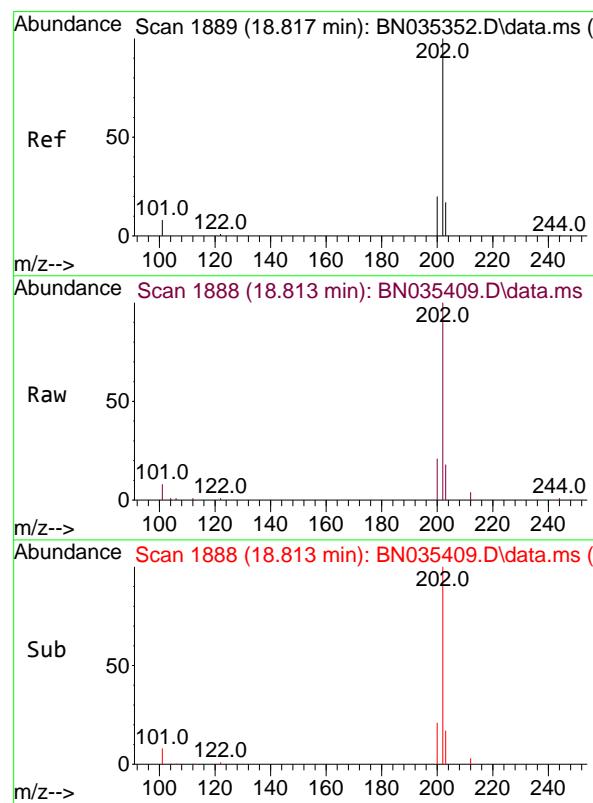
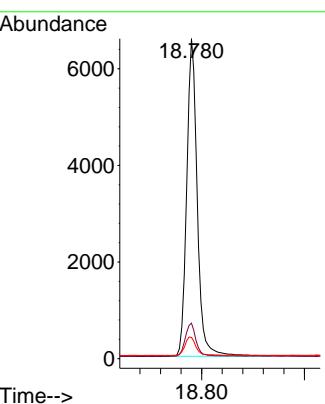




#27
 Fluoranthene-d10
 Concen: 0.431 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

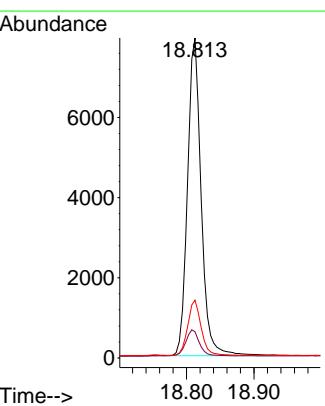
Instrument : BNA_N
 ClientSampleId : PB165348BSD

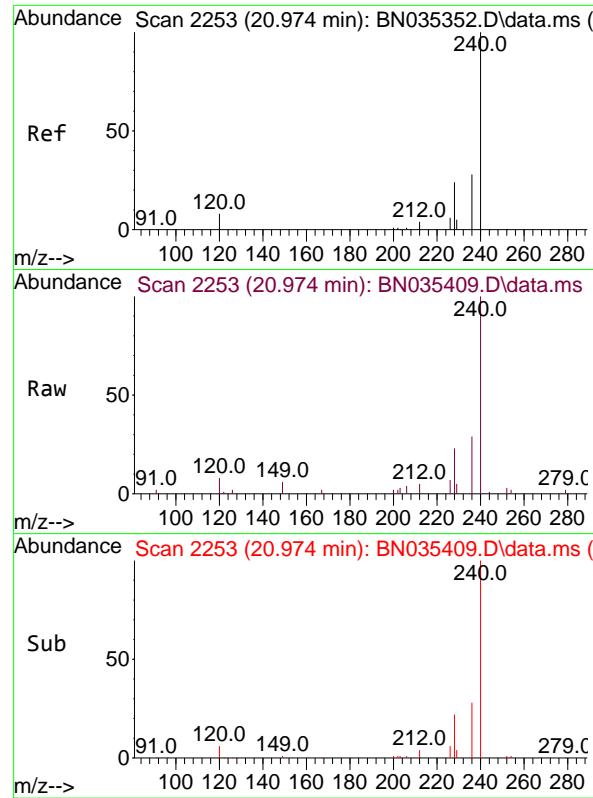
Tgt Ion:212 Resp: 9439
 Ion Ratio Lower Upper
 212 100
 106 10.4 9.2 13.8
 104 6.1 5.3 7.9



#28
 Fluoranthene
 Concen: 0.390 ng
 RT: 18.813 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion:202 Resp: 11171
 Ion Ratio Lower Upper
 202 100
 101 8.4 7.4 11.0
 203 17.0 13.7 20.5

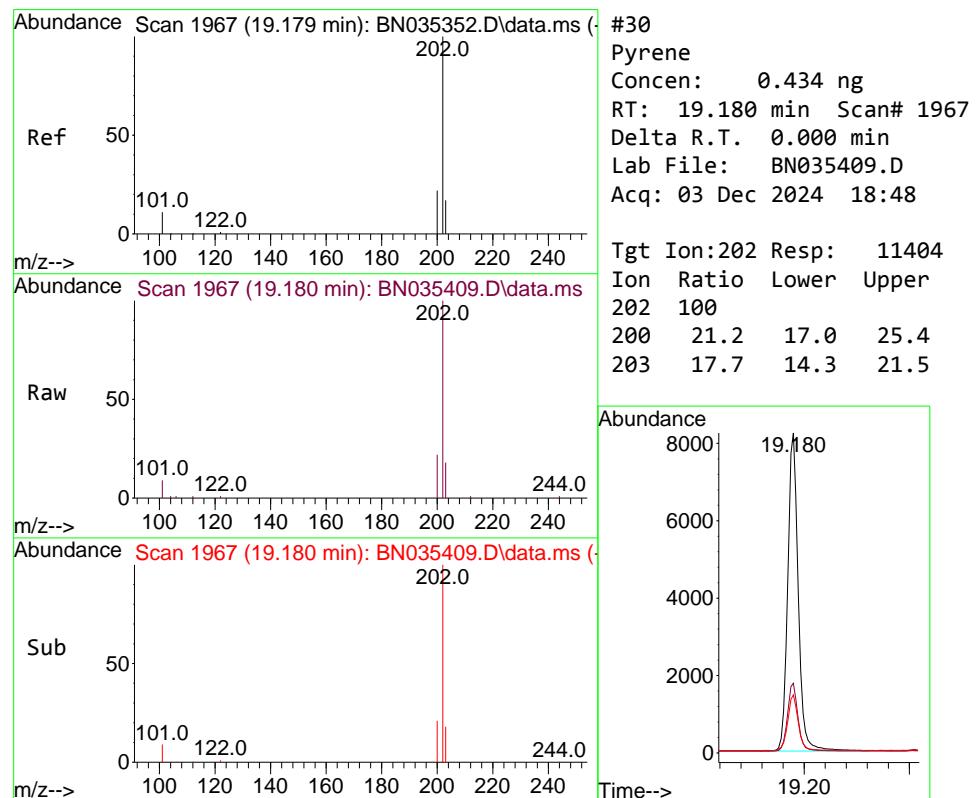
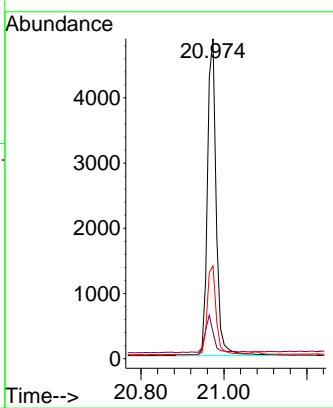




#29
Chrysene-d₁₂
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

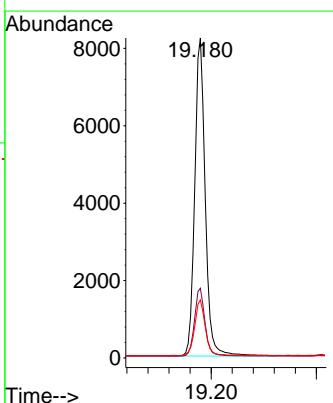
Instrument : BNA_N
ClientSampleId : PB165348BSD

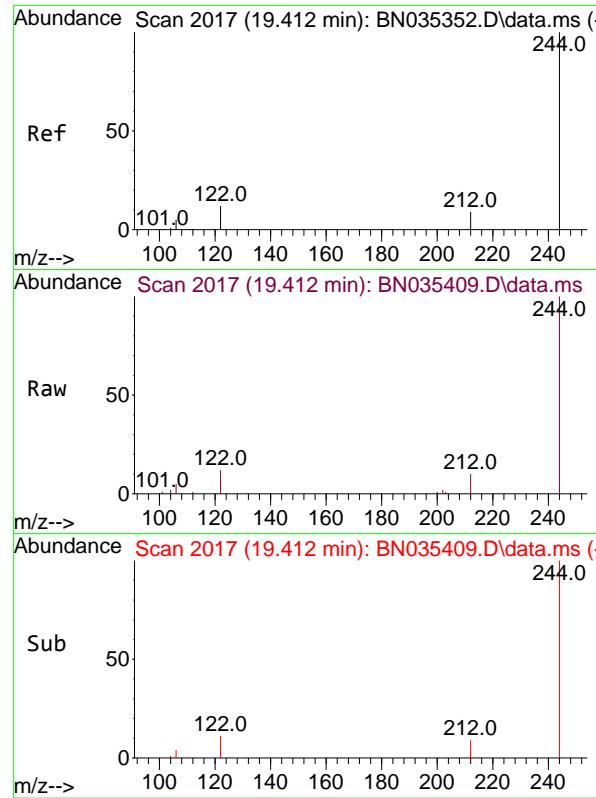
Tgt Ion:240 Resp: 7120
Ion Ratio Lower Upper
240 100
120 8.3 7.9 11.9
236 29.0 22.9 34.3



#30
Pyrene
Concen: 0.434 ng
RT: 19.180 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:202 Resp: 11404
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.7 14.3 21.5

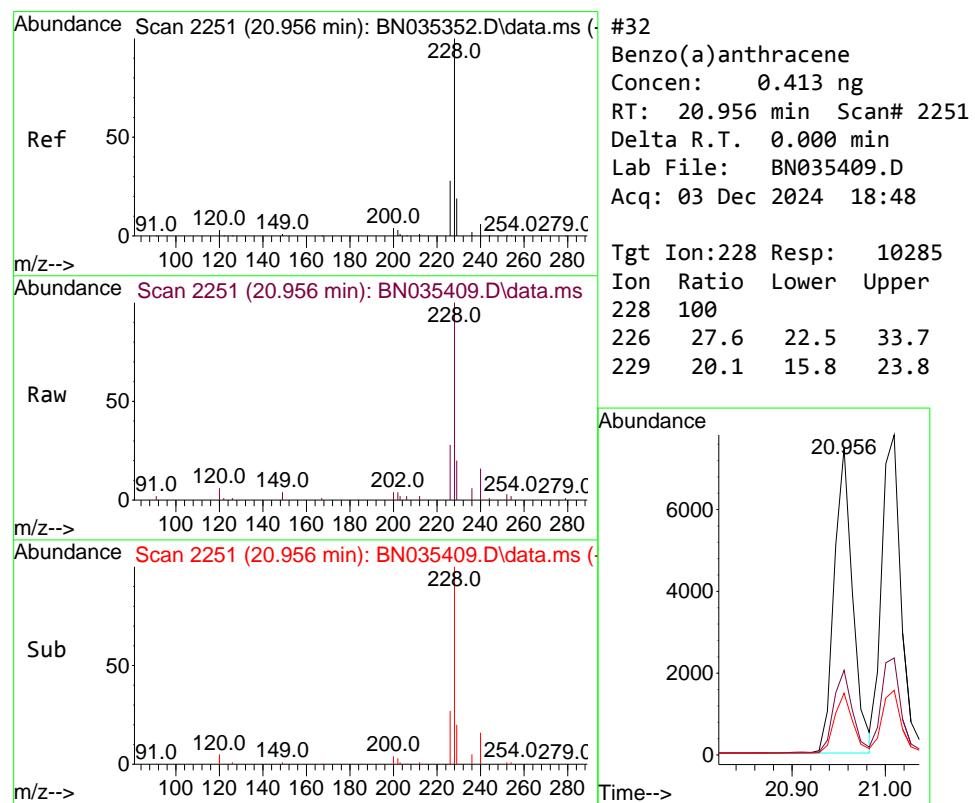
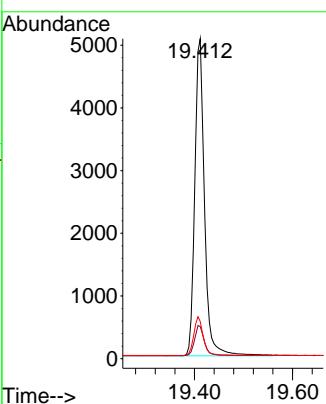




#31
 Terphenyl-d14
 Concen: 0.495 ng
 RT: 19.412 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

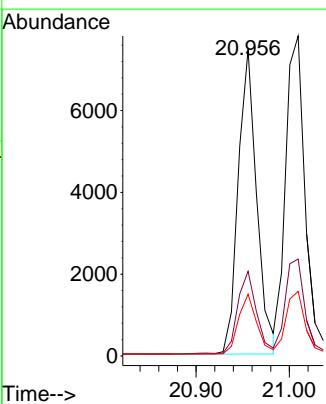
Instrument : BNA_N
 ClientSampleId : PB165348BSD

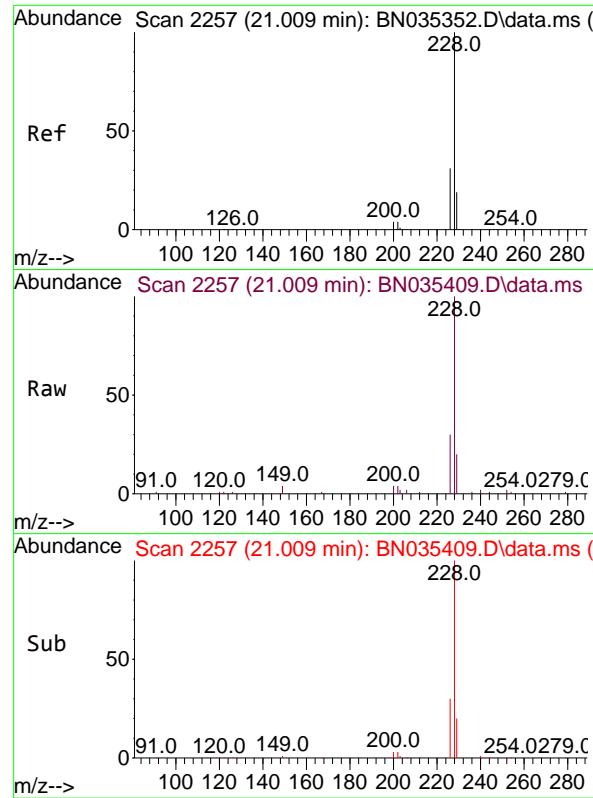
Tgt Ion:244 Resp: 6956
 Ion Ratio Lower Upper
 244 100
 212 10.0 8.1 12.1
 122 11.6 10.3 15.5



#32
 Benzo(a)anthracene
 Concen: 0.413 ng
 RT: 20.956 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion:228 Resp: 10285
 Ion Ratio Lower Upper
 228 100
 226 27.6 22.5 33.7
 229 20.1 15.8 23.8

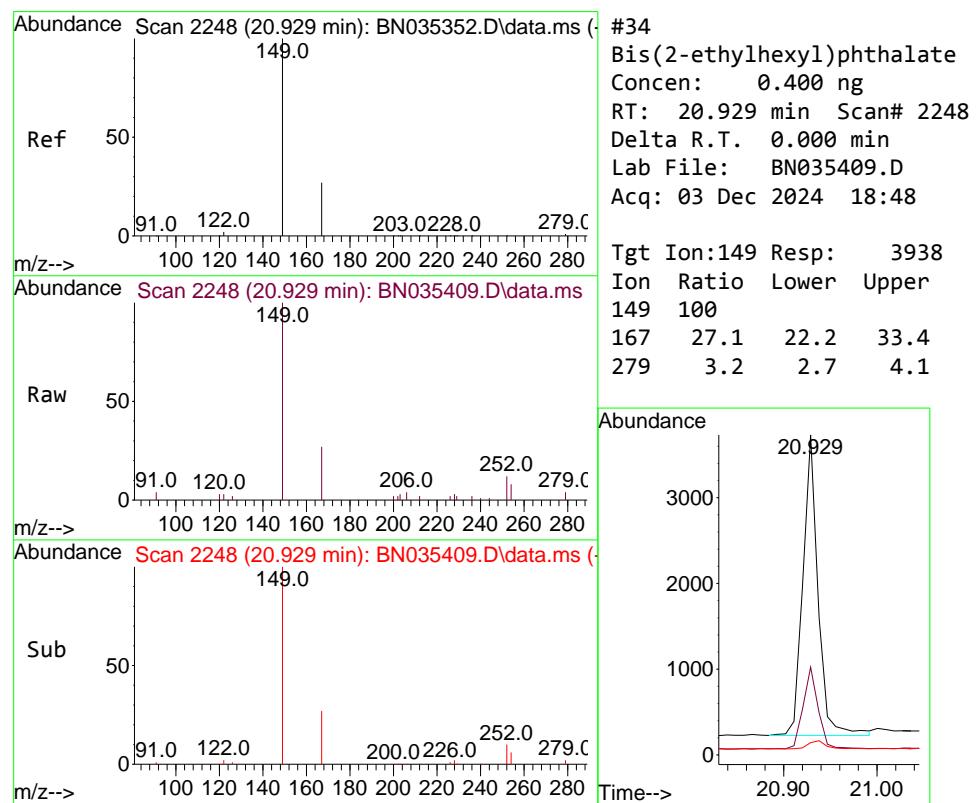
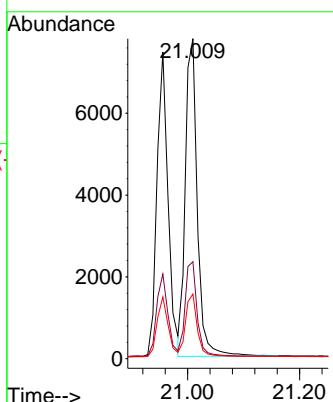




#33
 Chrysene
 Concen: 0.450 ng
 RT: 21.009 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

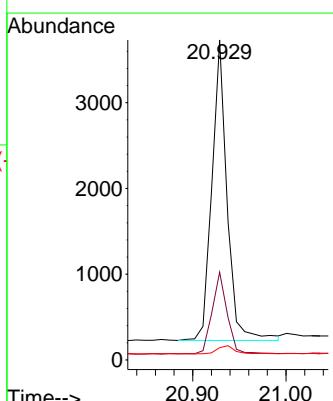
Instrument : BNA_N
 ClientSampleId : PB165348BSD

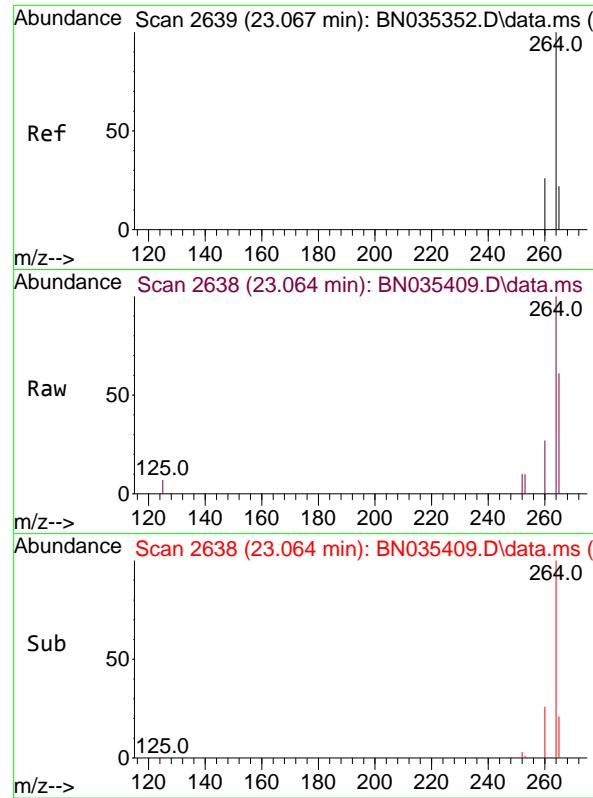
Tgt Ion:228 Resp: 11567
 Ion Ratio Lower Upper
 228 100
 226 30.3 24.6 37.0
 229 20.2 15.9 23.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.400 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion:149 Resp: 3938
 Ion Ratio Lower Upper
 149 100
 167 27.1 22.2 33.4
 279 3.2 2.7 4.1

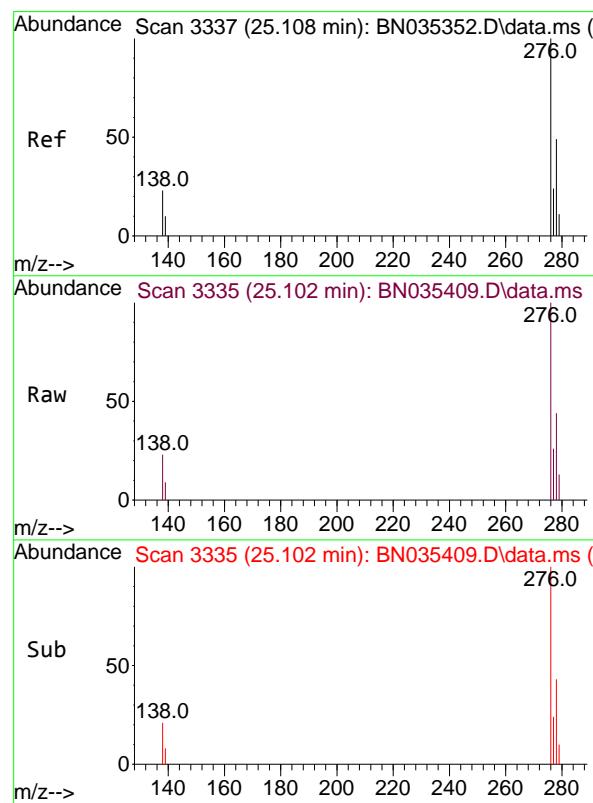
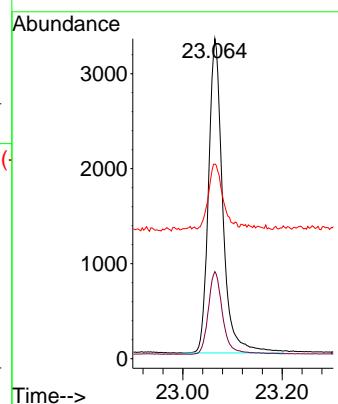




#35
Perylene-d₁₂
Concen: 0.400 ng
RT: 23.064 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

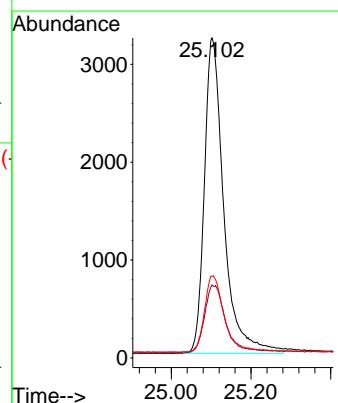
Instrument : BNA_N
ClientSampleId : PB165348BSD

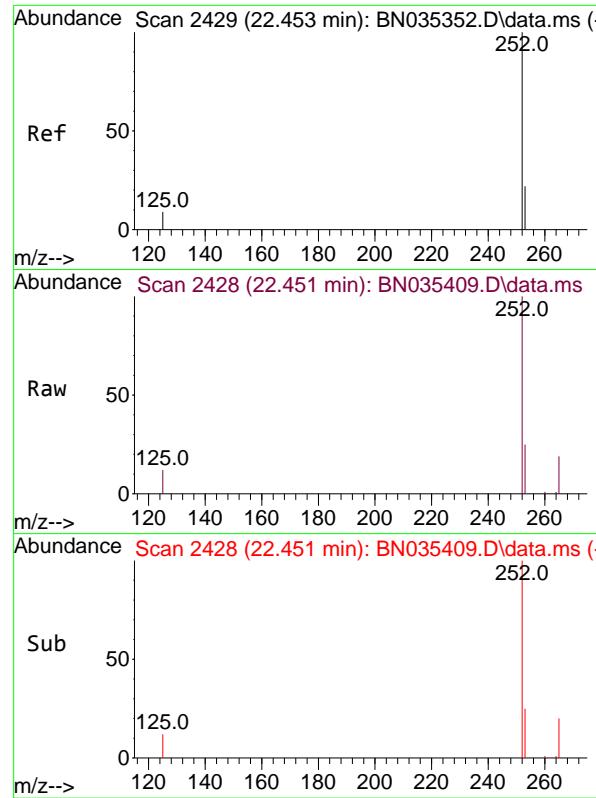
Tgt Ion:264 Resp: 6595
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 60.9 40.2 60.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.422 ng
RT: 25.102 min Scan# 3335
Delta R.T. -0.006 min
Lab File: BN035409.D
Acq: 03 Dec 2024 18:48

Tgt Ion:276 Resp: 10891
Ion Ratio Lower Upper
276 100
138 22.6 19.4 29.0
277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.646 ng

RT: 22.451 min Scan# 2

Instrument:

BNA_N

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

ClientSampleId :

PB165348BSD

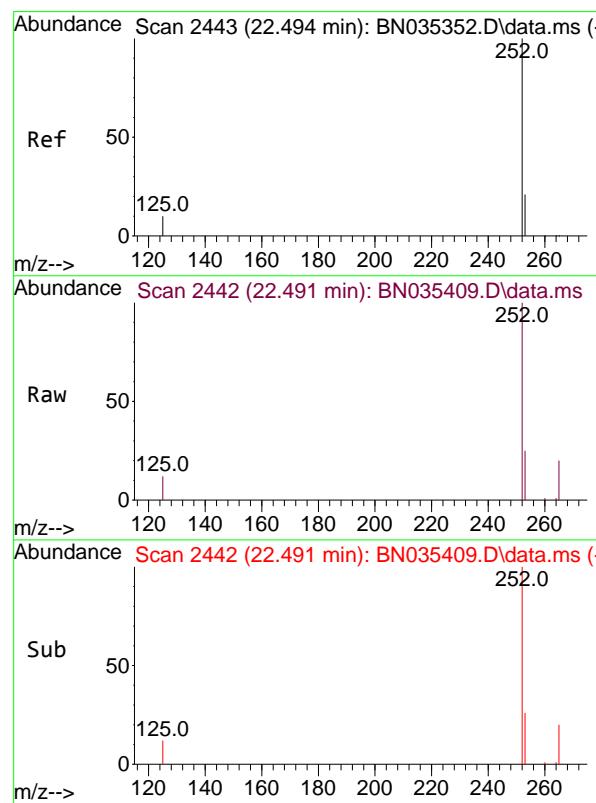
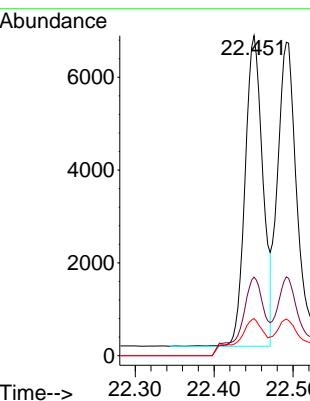
Tgt Ion:252 Resp: 15594

Ion Ratio Lower Upper

252 100

253 24.6 19.6 29.4

125 11.6 9.6 14.4



#38

Benzo(k)fluoranthene

Concen: 0.466 ng

RT: 22.491 min Scan# 2442

Delta R.T. -0.003 min

Lab File: BN035409.D

Acq: 03 Dec 2024 18:48

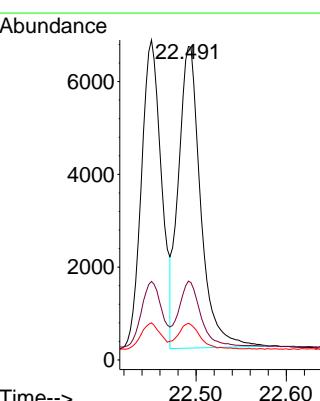
Tgt Ion:252 Resp: 11076

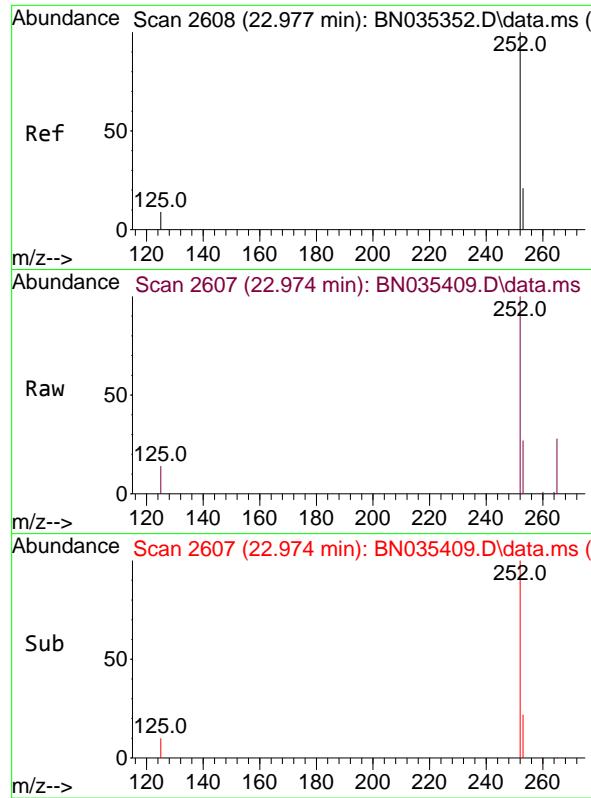
Ion Ratio Lower Upper

252 100

253 25.2 19.5 29.3

125 11.7 10.2 15.4

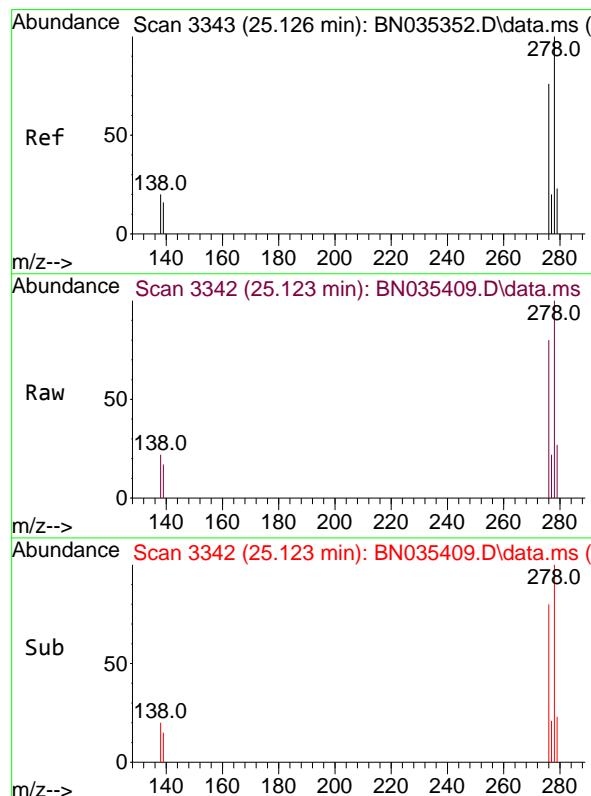
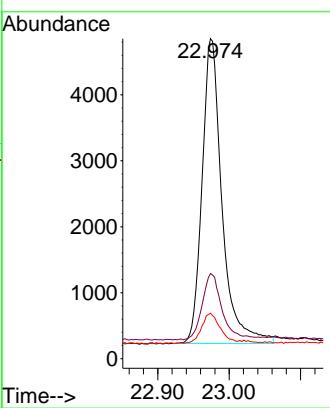




#39
 Benzo(a)pyrene
 Concen: 0.452 ng
 RT: 22.974 min Scan# 2
 Delta R.T. -0.003 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

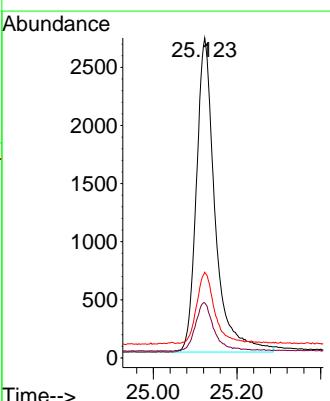
Instrument : BNA_N
 ClientSampleId : PB165348BSD

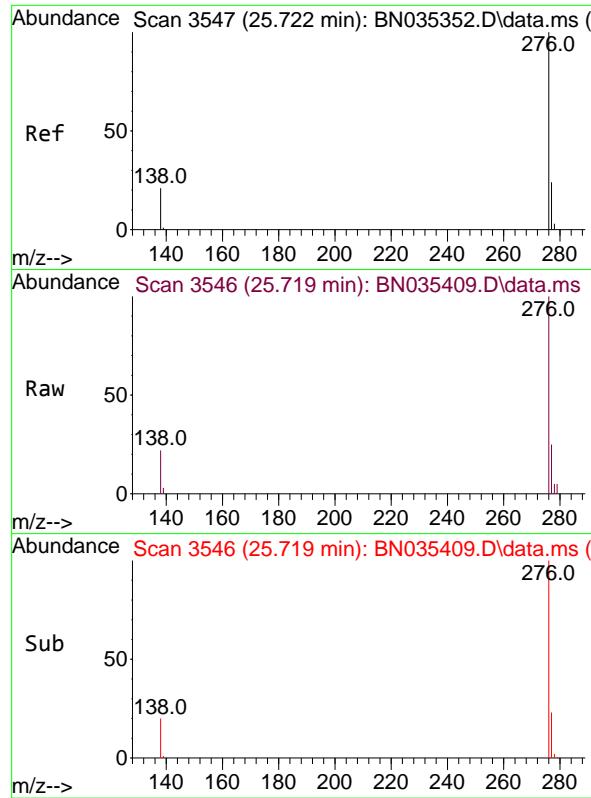
Tgt Ion:252 Resp: 8981
 Ion Ratio Lower Upper
 252 100
 253 26.6 20.2 30.4
 125 14.2 10.9 16.3



#40
 Dibenzo(a,h)anthracene
 Concen: 0.411 ng
 RT: 25.123 min Scan# 3342
 Delta R.T. -0.003 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Tgt Ion:278 Resp: 8366
 Ion Ratio Lower Upper
 278 100
 139 17.2 14.2 21.4
 279 26.8 20.5 30.7

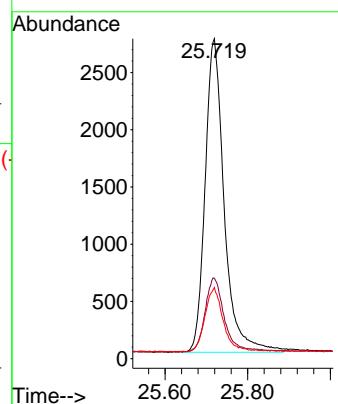




#41
 Benzo(g,h,i)perylene
 Concen: 0.413 ng
 RT: 25.719 min Scan# 3
 Delta R.T. -0.003 min
 Lab File: BN035409.D
 Acq: 03 Dec 2024 18:48

Instrument : BNA_N
 ClientSampleId : PB165348BSD

Tgt Ion:276 Resp: 8782
 Ion Ratio Lower Upper
 276 100
 277 25.1 19.9 29.9
 138 22.2 17.8 26.8





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Manual Integration Report

Sequence:	BN112724	Instrument	BNA_n
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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
SSTDICCV0.4	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:	BN120424	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN035406.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:09 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
P5065-04	BN035410.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:11 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
P5065-05	BN035411.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:12 AM	mohammad	12/5/2024 6:08:14 AM	Peak Integrated by Software
SSTDCCC0.4	BN035413.D	Nitrobenzene-d5	yogesh	12/5/2024 5:46:14 AM	mohammad	12/5/2024 6:08:14 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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684		

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 Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684		

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 # BN120424

Review By	Jagrut	Review On	12/4/2024 2:52:48 PM
Supervise By	mohammad	Supervise On	12/5/2024 6:08:14 AM
SubDirectory	BN120424	HP Acquire Method	BNA_N, 8270_SIM HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN035405.D	03 Dec 2024 15:56	RC/JU	Ok
2	SSTDCCC0.4	BN035406.D	03 Dec 2024 16:35	RC/JU	Ok,M
3	PB165348BL	BN035407.D	03 Dec 2024 17:37	RC/JU	Ok
4	PB165348BS	BN035408.D	03 Dec 2024 18:13	RC/JU	Ok
5	PB165348BSD	BN035409.D	03 Dec 2024 18:48	RC/JU	Ok
6	P5065-04	BN035410.D	03 Dec 2024 19:24	RC/JU	Ok,M
7	P5065-05	BN035411.D	03 Dec 2024 20:00	RC/JU	Ok,M
8	P5065-06	BN035412.D	03 Dec 2024 20:36	RC/JU	Ok
9	SSTDCCC0.4	BN035413.D	03 Dec 2024 21:11	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	SSTDICCV0.4	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

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 # BN120424

Review By	Jagrut	Review On	12/4/2024 2:52:48 PM
Supervise By	mohammad	Supervise On	12/5/2024 6:08:14 AM
SubDirectory	BN120424	HP Acquire Method	BNA_N, 8270_HP Processing Method bn112724
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	SP6573 SP6663,SP6662,SP6661,SP6660,SP6659,SP6658,SP6657		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6661 SP6527,1ul/100ul sample SP6684		

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN035405.D	03 Dec 2024 15:56		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN035406.D	03 Dec 2024 16:35		RC/JU	Ok,M
3	PB165348BL	PB165348BL	BN035407.D	03 Dec 2024 17:37		RC/JU	Ok
4	PB165348BS	PB165348BS	BN035408.D	03 Dec 2024 18:13		RC/JU	Ok
5	PB165348BSD	PB165348BSD	BN035409.D	03 Dec 2024 18:48		RC/JU	Ok
6	P5065-04	RW7-SP200-20241202	BN035410.D	03 Dec 2024 19:24		RC/JU	Ok,M
7	P5065-05	RW7-SP201-20241202	BN035411.D	03 Dec 2024 20:00		RC/JU	Ok,M
8	P5065-06	RW7-SP300A-2024120	BN035412.D	03 Dec 2024 20:36		RC/JU	Ok
9	SSTDCCC0.4	SSTDCCC0.4EC	BN035413.D	03 Dec 2024 21:11		RC/JU	Ok,M

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-20		
Clean Up SOP #:	N/A	Extraction Start Date :	12/03/2024
Matrix :	Water	Extraction Start Time :	12:30
Weigh By:	N/A	Extraction End Date :	12/03/2024
Balance check:	N/A	Extraction End Time :	17:25
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3574	Hood ID:	4,6,7
Extraction Method:	<input checked="" type="checkbox"/> Separatory Funnel <input type="checkbox"/> Continous Liquid/Liquid <input type="checkbox"/> Sonication <input type="checkbox"/> Waste Dilution <input type="checkbox"/> Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6666
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3829
Baked Na ₂ SO ₄	N/A	EP2570
10N NaOH	N/A	EP2559
H ₂ SO ₄ 1:1	N/A	EP2565
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	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/3/24	Rp (Ext. 105)	AC/SVOC
17:30	Preparation Group	Analysis Group

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

Concentration Date: 12/03/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165348BL	SBLK348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			SEP-01
PB165348BS	SLCS348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			2
PB165348BD	SLCSD348	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			3
P5065-04	RW7-SP200-20241202	SVOC-SIMGrou p1	970	6	ritesh	rajesh	1			4
P5065-05	RW7-SP201-20241202	SVOC-SIMGrou p1	980	6	ritesh	rajesh	1			5
P5065-06	RW7-SP300A-20241202	SVOC-SIMGrou p1	990	6	ritesh	rajesh	1			6

* Extracts relinquished on the same date as received.



12/31/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name :	p5065	WorkList ID :	185929	Department :	Extraction	Date :	12-03-2024 12:27:07
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method
P5065-04	RW7-SP200-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024 8270-Modified
P5065-05	RW7-SP201-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024 8270-Modified
P5065-06	RW7-SP300A-20241202	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L61	12/02/2024 8270-Modified

Date/Time 12/3/24 12:28
 Raw Sample Received by: RS(Scott Tandy)
 Raw Sample Relinquished by: JDC(Sam)

Date/Time 12/3/24 12:50
 Raw Sample Received by: JDC(Sam)
 Raw Sample Relinquished by: RS(Scott Tandy)



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Prep Standard - Chemical Standard Summary

Order ID : P5065

Test : SVOC-SIMGroup1

Prepbatch ID : PB165348,

Sequence ID/Qc Batch ID: BN120424,

Standard ID :

EP2559,EP2565,EP2570,SP6527,SP6573,SP6606,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,E3829,M5173,S10103,S10247,S 11011,S11074,
S11097,S11494,S11771,S11831,S12029,S12077,S12079,S12105,S12113,S12126,S12142,S12189,S12207,S12208,S1
2314,S12328,S12453,S12469,S12517,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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



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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551
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
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
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
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788
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
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818
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
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24J0862003	05/18/2025	11/18/2024 / Rajesh	11/04/2024 / Rajesh	E3829
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 / william	04/05/2022 / william	M5173
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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	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	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771



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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]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105
[CS 4978-2]						
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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 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, CH ₂ Cl ₂ , 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]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

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



5580 Skylane Blvd
Santa Rosa, CA 95403

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: Storage: Solvent: Exp. Date: Description:
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 \pm 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 \pm 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 \pm 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 \pm 17.17

Received on

02/25/21

by
CG

S9236
+0

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA


All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on
02/07/23 by C6

SH067 S11096
to
S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

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
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 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
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

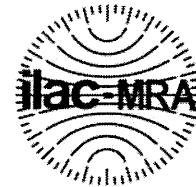
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 Bellefonte, PA 16823-8812
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Certificate of Analysis



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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.

Received on
 03/11/2022

b7
 CG

S10242
 to

S10247

Catalog No. : 31615

Lot No.: A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000 μ g/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

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachlorophenol CAS # 87-86-5 Purity 99%	1,003.6 μ g/mL	+/- 5.8897 μ g/mL	+/- 45.7132 μ g/mL	+/- 66.0037 μ g/mL
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 Purity 95%	1,006.6 μ g/mL	+/- 5.9074 μ g/mL	+/- 45.8508 μ g/mL	+/- 66.2023 μ g/mL
3	Benzidine CAS # 92-87-5 Purity 99%	1,008.4 μ g/mL	+/- 5.9179 μ g/mL	+/- 45.9318 μ g/mL	+/- 66.3193 μ g/mL
4	4,4'-DDT CAS # 50-29-3 Purity 99%	1,007.6 μ g/mL	+/- 5.9132 μ g/mL	+/- 45.8954 μ g/mL	+/- 66.2667 μ g/mL

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25 μ m
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:

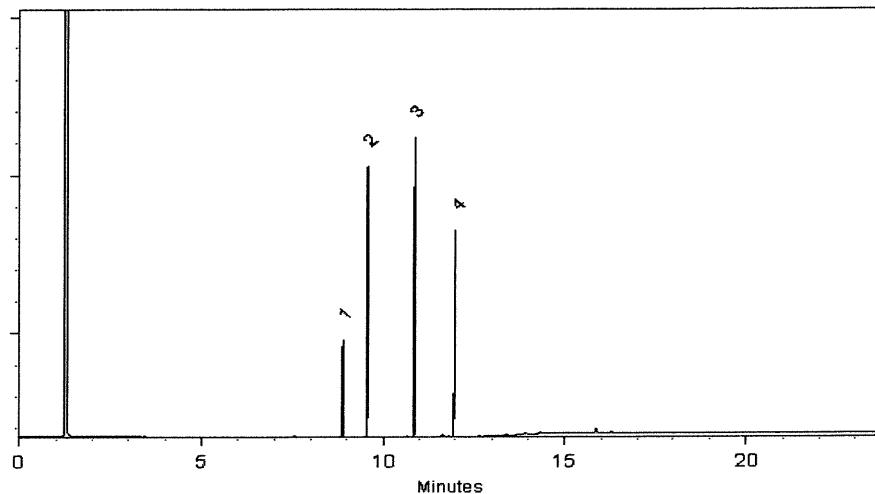
250°C

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

Marilina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Received on
02/06/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853

Lot No.: A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000 μ g/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

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane CAS # 123-91-1 Purity 99%	2,019.0 μ g/mL	+/- 11.8486 μ g/mL	+/- 43.2570 μ g/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0 μ m
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:

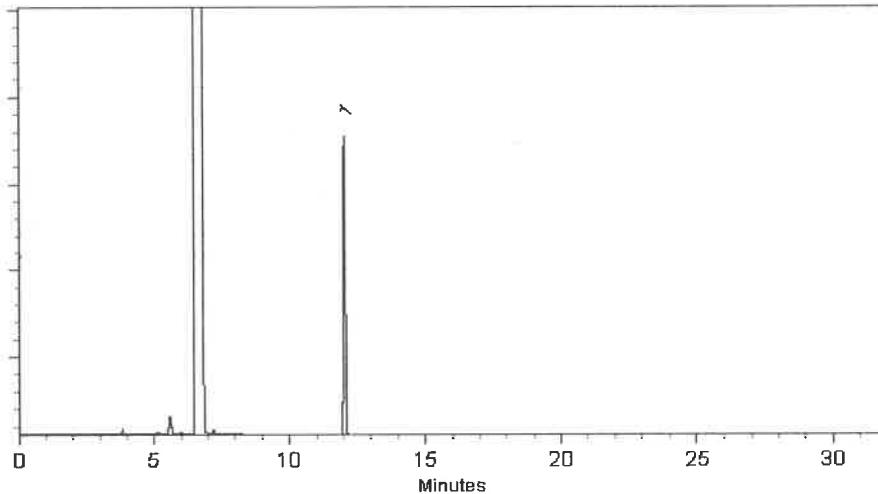
200°C

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


Mariana Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872

Lot No.: A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000 μ g/mL, Methanol,
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : January 31, 2026

Storage: 10°C or colder

Ship: Ambient

Received on

01/3/23

by

C6

S11011

to

S11015

C E R T I F I E D V A L U E S

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 μ g/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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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MONTERREY, N.L. MEXICO
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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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO 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.

Recd. by R3 on 7/29/23 [E 3551]

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH Manufacture Date: 12/14/2022
Molecular Weight: 40 Expiration Date: 12/31/2025
CAS #: 1310-73-2
Appearance: Storage: Room Temperature

Pellets

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

Additional Information

We certify that this batch conforms to the specifications listed.

Analysis may have been rounded to significant digits in specification limits.

This document has been electronically produced and is valid without a signature.

Product meets analytical specifications of the grades listed.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



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

A handwritten signature of the name "Jamie Croak".

Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ($\mu\text{eq/g}$)	≤ 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

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
Page 1 of 1

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



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) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (μeq/g)	≤ 0.3	0.1
Titrable Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehlein
Ken Koehlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ($\mu\text{eq/g}$)	≤ 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

E3791

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700
Page 1 of 1

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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) (ng/mL)	Single Impurity Peak <= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH ₂ Cl 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

A handwritten signature in black ink that reads "Jamie Croak".

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (μeq/g)	<= 0.3	0.2
Titrable Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as 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

Rec'd by RP on 10/9/24

E 3818

J.Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
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)



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) (ng/mL)	Single Impurity Peak <= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) (pg/mL)	Single Peak <= 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 ($\mu\text{eq/g}$)	<= 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

A handwritten signature in black ink that reads "Jamie Croak".

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

11/6/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ($\mu\text{eq/g}$)	<= 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 3829

A handwritten signature in black ink that reads 'Jamie Croak'.

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Hydrochloric Acid, 36.5-38.0%
 BAKER INSTRUMENTS 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

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

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



5580 Skylene 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

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
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-d ₅	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d ₁₄	1718-51-0	99.3	9.120.8P	5005 ± 27.85

Sample Y.P.
S11498 8/11/2028
S11498

*Not a certified value

Mario Cadeau
Certified By:

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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 2,000 μ g/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

511749
↓ { RC /
511794 } 11/30/23

C E R T I F I E D V A L U E S

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 μ g/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 0.25 μ m
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:

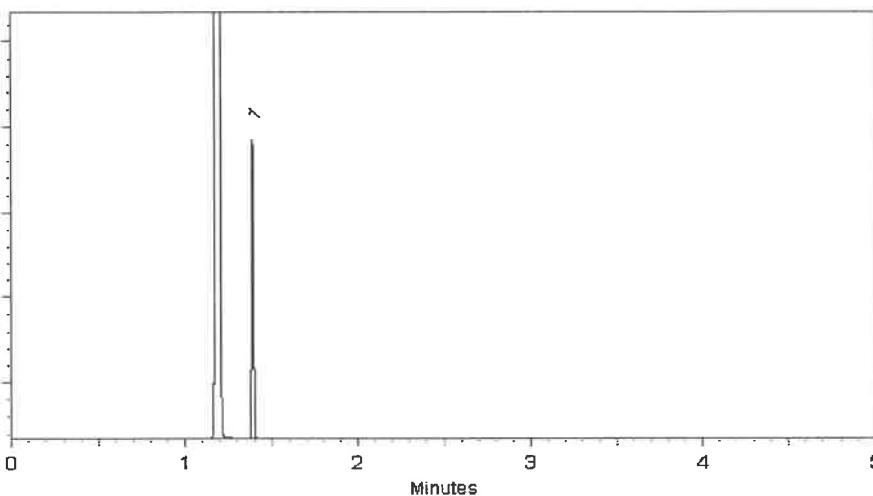
FID

Split Vent:

100 mL/min.

Inj. Vol

1 μ L



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 Moodier
Sam Moodier - Operations Tech I

Date Mixed: 30-Mar-2023 Balance Serial #: B707717271

Jennifer Pollino
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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL



ILAC
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ILAC
ACCREDITED
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.

Catalog No. : 33913

Lot No.: A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000 μ g/mL, Methylene chloride, 1mL
/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : August 31, 2029

Storage: 10°C or colder

Handling: Sonication required. Mix is
photosensitive.

Ship: Ambient

511828
↓
511832 } RC/
11/30/23 }

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 μ g/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 0.25 μ m

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:

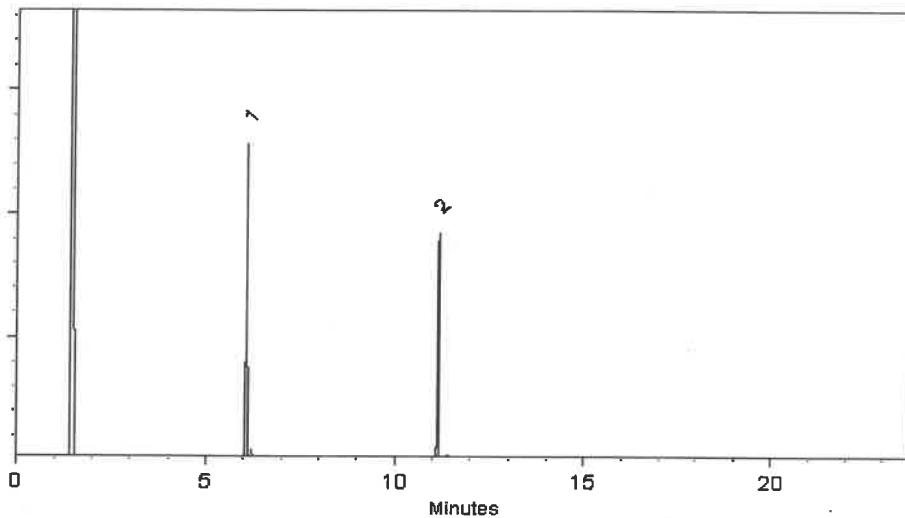
330°C

Det. Type:

FID

Split Vent:

10 ml/min.

Inj. Vol1 μ l

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL



ILAC-MRA
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ILAC-MRA
ACCREDITED
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.

Catalog No. : 31206

Lot No.: A0201320

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride,
1mL/ampul

S12013 }
↓ } RC
S12042 } 12/26/23

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

C E R T I F I E D V A L U E S

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 0.25 μ m
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:

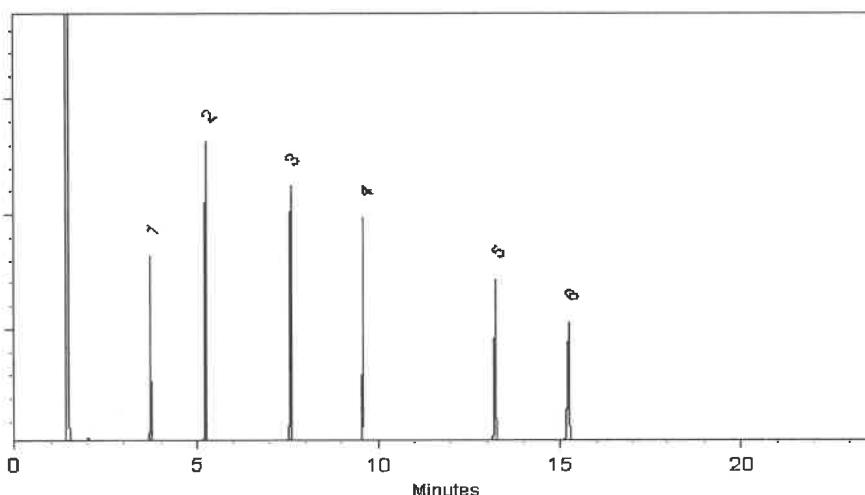
FID

Split Vent:

10 ml/min.

Inj. Vol

1 μ l



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



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-110816-01	414127	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

512075 }
↓ } RC
512079 } 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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Shane Overcash
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-110816-01	414127	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

512075 }
↓ } RC
512079 } 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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Shane Overcash
Chemist



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Certificate of Analysis

gravimetric



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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.

Catalog No. : 555224

Lot No.: A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000 μ g/mL, Methylene Chloride,
1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : February 28, 2026

Storage: 10°C or colder

Ship: Ambient

S12082
↓
S12111 } RC /
02/22/24

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 μ g/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 μ g/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 μ g/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 μ g/mL	+/- 29.571294

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Santa Rosa, CA 95403

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Rev 0

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026 1,4-Dioxane Solution, 2000 mg/L, 1 mL	
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane		123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC /
↓
512116 } 03/08/24

*Not a certified value

Certified By:

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850

Lot No.: A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : April 30, 2025

Storage: 0°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

512117 } RC/
↓ } 03/18/24
512146

C E R T I F I E D V A L U E S

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%



110 Benner Circle
Bellefonte, PA 16823-8812
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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850

Lot No.: A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : April 30, 2025

Storage: 0°C or colder

Handling: Sonication required. Mix is photosensitive.

Ship: Ambient

512117 } RC/
↓ } 03/18/24
512146

C E R T I F I E D V A L U E S

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%



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Certificate of Analysis *chromatographic plus*

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087

Lot No.: A0206206

512187 } RC/
↓ } 03/18/24
512206 }

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000 μ g/mL, Methanol, 5mL/ampul

Container Size : 5 mL

Pkg Amt: > 5 mL

Expiration Date : January 31, 2032

Storage: 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 μ g/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 μ g/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 0.25 μ m
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:

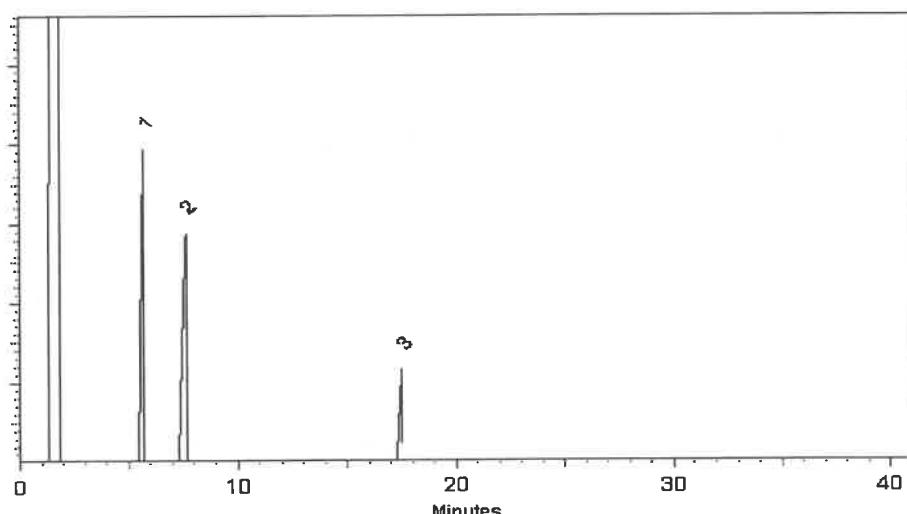
FID

Split Vent:

2 mL/min.

Inj. Vol

1 μ L



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 Regin - Operations Tech |

Date Mixed: 04-Jan-2024 Balance Serial #: 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. :	31086	Lot No.:	A0206381
Description :	B/N Surrogate Mix (4/89 SOW)		
	Base Neutral Surrogate 5000 μ g/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

512207 } RC /
↓ { 03/18/24
512221 }

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μ g/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μ g/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 0.25 μ m
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:

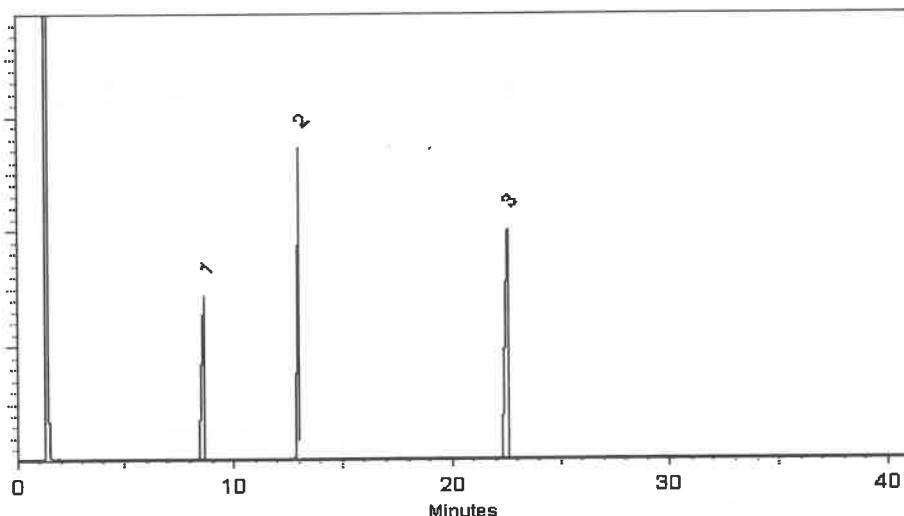
FID

Split Vent:

2 mL/min.

Inj. Vol

1 μ L



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
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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 5000 μ g/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

512207 } RC /
↓ } 03/18/24
512221 }

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 μ g/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 μ g/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 0.25 μ m
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:

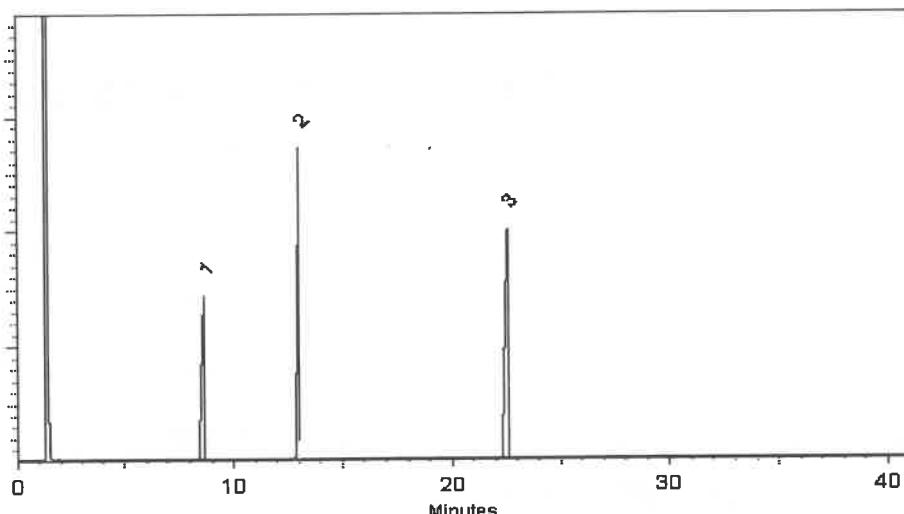
FID

Split Vent:

2 mL/min.

Inj. Vol

1 μ L



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

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Certificate of Analysis

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206

Lot No.: A0206540

512312 } RC/
↓ } 05/30/24
512331 }

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

C E R T I F I E D V A L U E S

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 0.25 μ m
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:

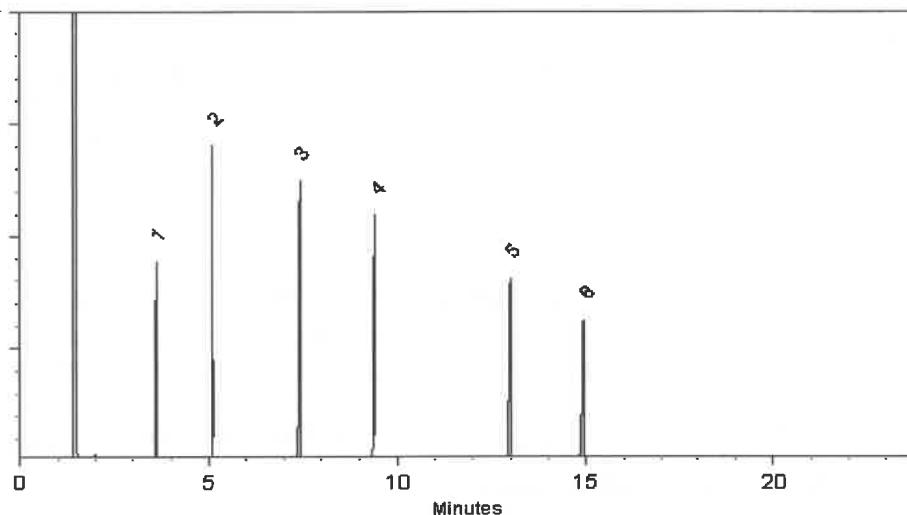
FID

Split Vent:

10 ml/min.

Inj. Vol

1 μ l



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
Malina Homan - Operations Technician |

Date Mixed: 12-Jan-2024 Balance Serial #: 1128360905

Jennifer Pollino
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



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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.: A0206540

512312 } RC/
↓ } 05/30/24
512331 }

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

C E R T I F I E D V A L U E S

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 0.25 μ m
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:

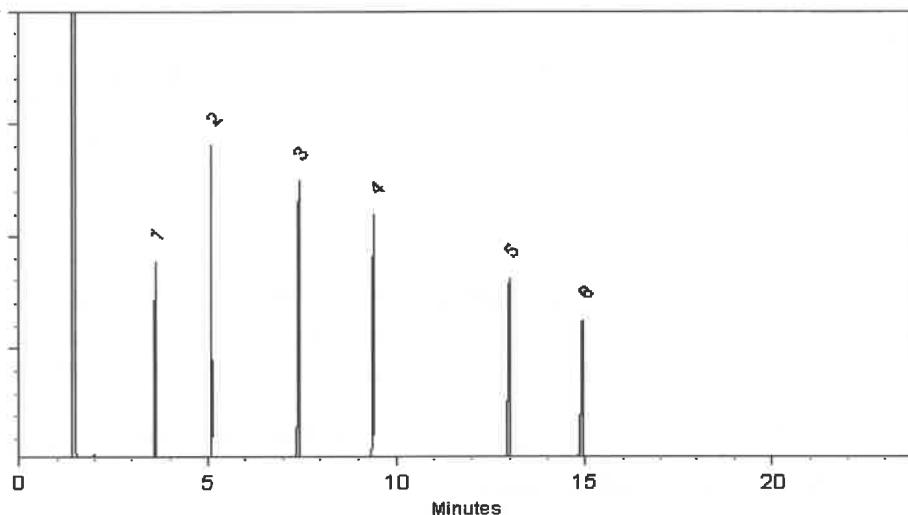
FID

Split Vent:

10 ml/min.

Inj. Vol

1 μ l



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
Malina Homan - Operations Technician |

Date Mixed: 12-Jan-2024 Balance Serial #: 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

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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 1,000 μ g/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

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μ g/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μ g/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μ g/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ } 7/24/24
S12508 }

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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000 μ g/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

C E R T I F I E D V A L U E S

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 μ g/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 μ g/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 μ g/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 μ g/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ } 7/24/24
S12508 }

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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL



ILAC
ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ILAC
ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

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%

512509
↓
512568 } 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:

$$U_{\text{combined uncertainty}} = k \sqrt{u_{\text{gravimetric}}^2 + u_{\text{homogeneity}}^2 + u_{\text{storage stability}}^2 + u_{\text{shipping stability}}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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: P5045

COC Number:

CLIENT INFORMATION		PROJECT INFORMATION				BILLING INFORMATION																	
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage				BILL TO: PO#																	
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW7B				ADDRESS:																	
CITY: Virginia Beach	STATE: VA ZIP: 23462	PROJECT MANAGER: Ernie Wu				CITY: STATE: ZIP:																	
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com				ATTENTION: PHONE:																	
PHONE: 757-466-4901	FAX: 757-461-4148	PHONE: 757-466-4901 FAX: 757-461-4148				ANALYSIS																	
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION																					
FAX: 48 hrs DAYS* HARD COPY: 48 hrs DAYS* EDD 48 hrs DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		<input type="checkbox"/> RESEULTS ONLY <input type="checkbox"/> USEPA CLP <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B" <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A" <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD Format _____				14-Dixane SW846 8270 SIM <table border="1" style="margin-left: 20px;"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table>									1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9															
PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS						
CHEMTECH SAMPLE ID	COMP		GRAB	DATE	TIME	1		2	3	4	5	6	7	8	9	<- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other							
1.	RW7-SP200-20241202	GW	X	12/2/24	14:25	1	X																
2.	RW7-SP201-20241202	GW	X	12/2/24	14:27	1	X																
3.	RW7-SP300A-20241202	GW	X	12/2/24	14:29	1	X																
4.																							
5.																							
6.																							
7.																							
8.																							
9.																							
10.																							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp 21°C MeOH extraction requires an additional 4oz. Jar for percent solid Comments:
1. <i>[Signature]</i>	11/14/24 15	1. <i>[Signature]</i>	<input type="checkbox"/> Ice in Cooler? YES
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2. <i>[Signature]</i>	9:50 12-3-24	2. <i>[Signature]</i>	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight
3. <i>[Signature]</i>		3. <i>[Signature]</i>	Shipment Complete <input type="checkbox"/> YES <input type="checkbox"/> NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.1

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

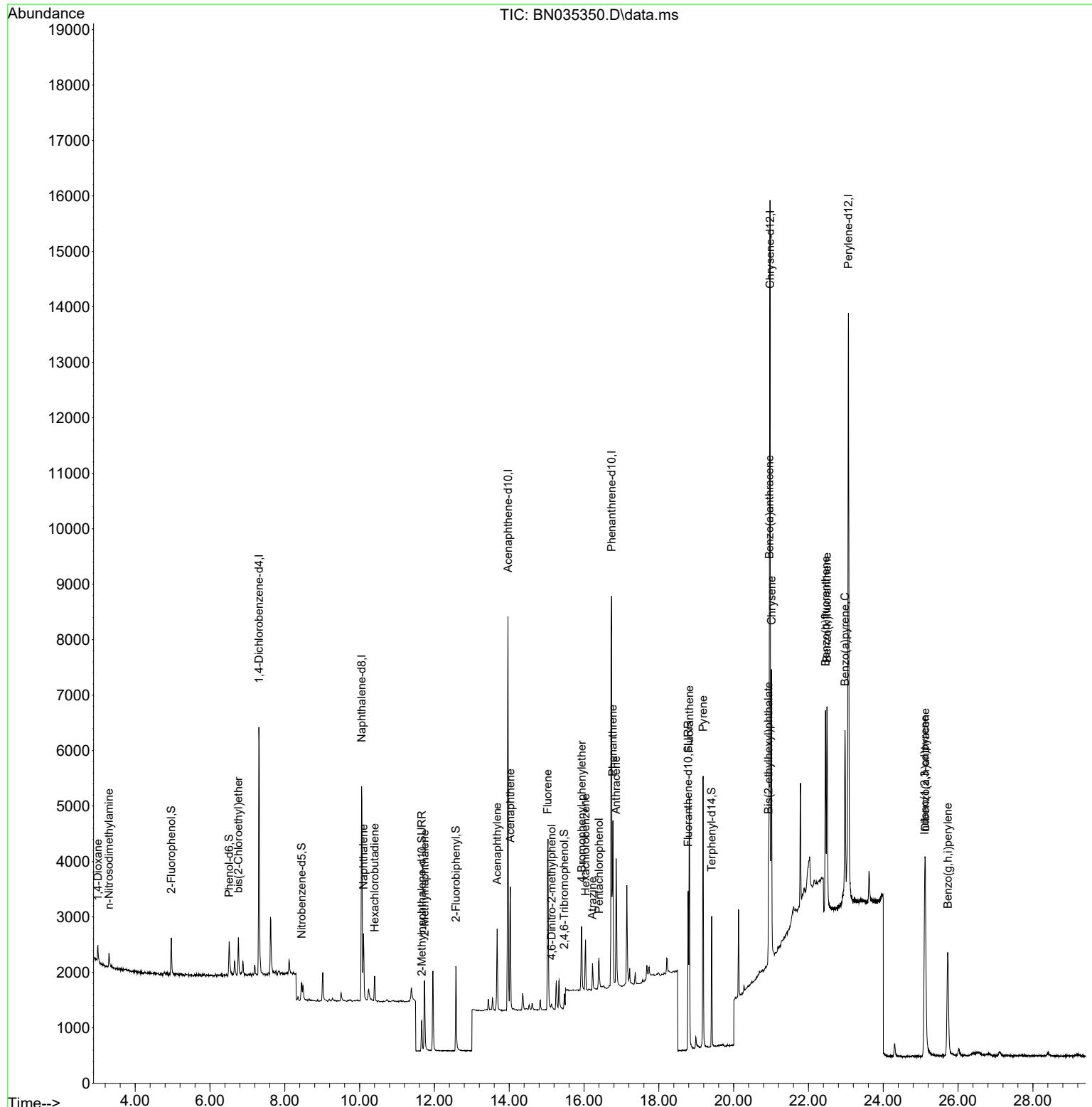
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2237	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5753	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	4077	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	10855	0.400	ng	0.00
29) Chrysene-d12	20.974	240	11269	0.400	ng	0.00
35) Perylene-d12	23.067	264	13004	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.968	112	573	0.101	ng	0.00
5) Phenol-d6	6.513	99	686	0.096	ng	0.00
8) Nitrobenzene-d5	8.450	82	492	0.098	ng	0.01
11) 2-Methylnaphthalene-d10	11.661	152	850	0.083	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	278	0.095	ng	0.00
15) 2-Fluorobiphenyl	12.574	172	1518	0.092	ng	0.00
27) Fluoranthene-d10	18.785	212	3265	0.098	ng	0.00
31) Terphenyl-d14	19.412	244	2344	0.099	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	3.003	88	227	0.112	ng	# 87
3) n-Nitrosodimethylamine	3.299	42	187	0.099	ng	# 90
6) bis(2-Chloroethyl)ether	6.759	93	579	0.108	ng	98
9) Naphthalene	10.105	128	1527	0.102	ng	# 91
10) Hexachlorobutadiene	10.404	225	352	0.080	ng	# 97
12) 2-Methylnaphthalene	11.737	142	1042	0.094	ng	96
16) Acenaphthylene	13.679	152	1675	0.096	ng	100
17) Acenaphthene	14.031	154	1143	0.100	ng	99
18) Fluorene	15.026	166	1620	0.096	ng	98
20) 4,6-Dinitro-2-methylph...	15.133	198	103	0.046	ng	# 29
21) 4-Bromophenyl-phenylether	15.941	248	612	0.088	ng	# 94
22) Hexachlorobenzene	16.041	284	720	0.100	ng	97
23) Atrazine	16.227	200	421	0.068	ng	# 86
24) Pentachlorophenol	16.401	266	381	0.114	ng	90
25) Phenanthrene	16.773	178	2963	0.104	ng	99
26) Anthracene	16.860	178	2617	0.100	ng	98
28) Fluoranthene	18.817	202	4173	0.106	ng	99
30) Pyrene	19.184	202	4461	0.119	ng	100
32) Benzo(a)anthracene	20.956	228	4031	0.103	ng	99
33) Chrysene	21.010	228	4123	0.106	ng	97
34) Bis(2-ethylhexyl)phtha...	20.929	149	1999	0.097	ng	99
36) Indeno(1,2,3-cd)pyrene	25.105	276	4586	0.088	ng	97
37) Benzo(b)fluoranthene	22.456	252	4243	0.097	ng	# 82
38) Benzo(k)fluoranthene	22.494	252	4378	0.100	ng	# 80
39) Benzo(a)pyrene	22.977	252	3913	0.102	ng	# 69
40) Dibenzo(a,h)anthracene	25.126	278	3588	0.087	ng	# 86
41) Benzo(g,h,i)perylene	25.725	276	3863	0.088	ng	# 93

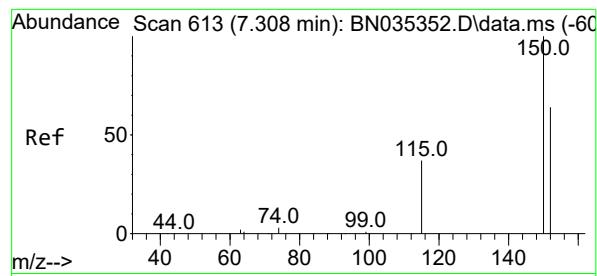
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

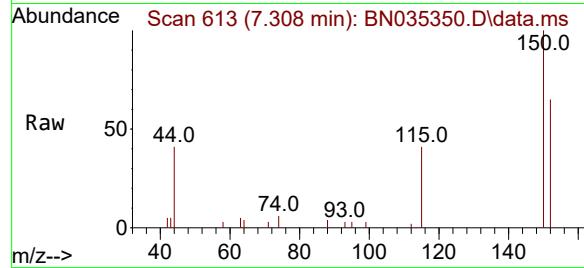
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 ClientSampleId :
 SSTDICCO.1

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

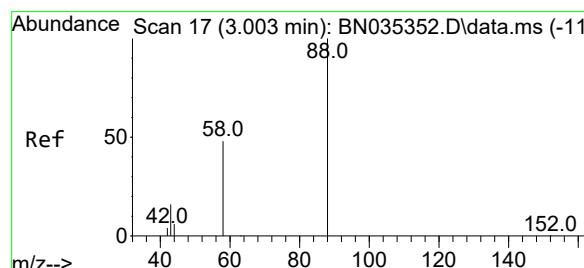
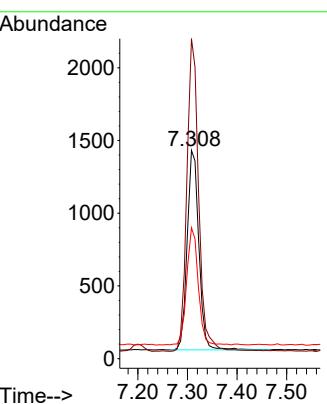
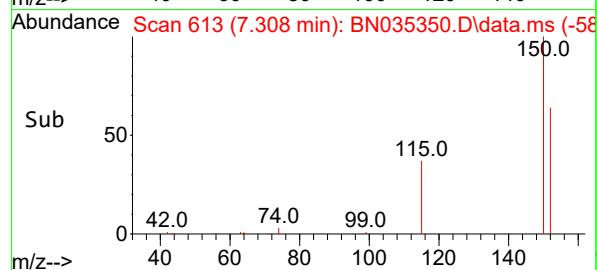




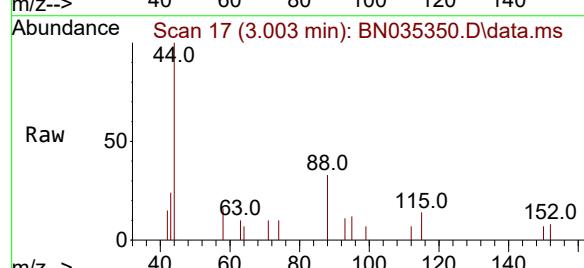
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035350.D
ClientSampleId : SSTDICCO.1
Acq: 27 Nov 2024 15:34



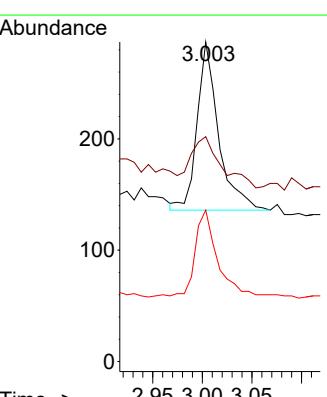
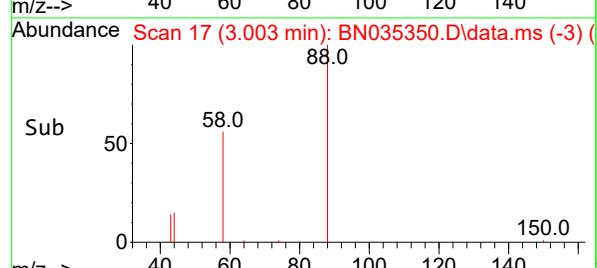
Tgt Ion:152 Resp: 2237
Ion Ratio Lower Upper
152 100
150 153.6 124.0 186.0
115 62.8 49.6 74.4

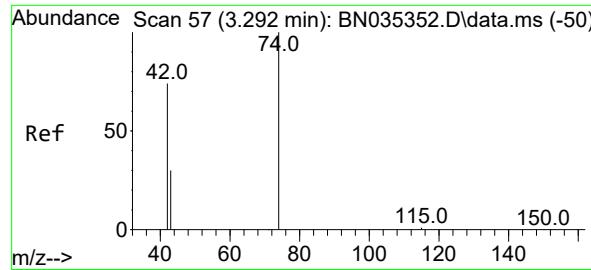


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



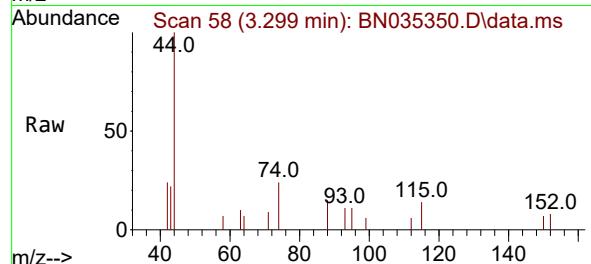
Tgt Ion: 88 Resp: 227
Ion Ratio Lower Upper
88 100
43 41.4 17.2 25.8#
58 54.6 44.5 66.7



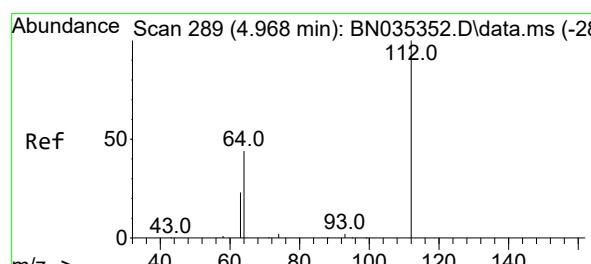
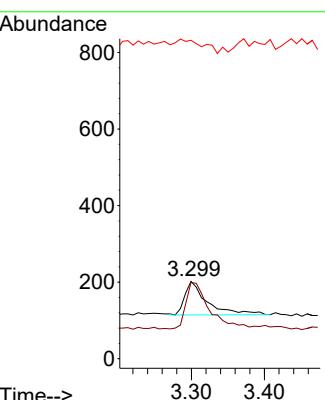
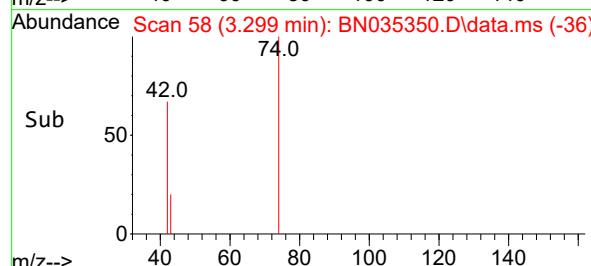


#3
n-Nitrosodimethylamine
Concen: 0.099 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

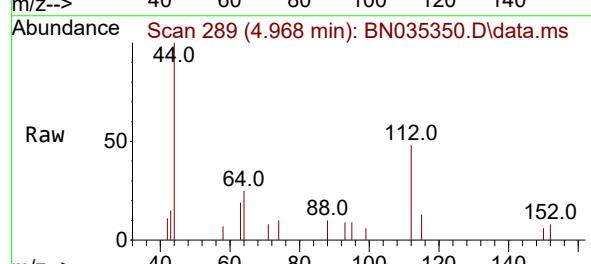
Instrument: BNA_N
ClientSampleId: SSTDICCO.1



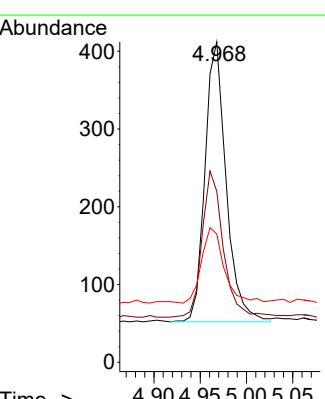
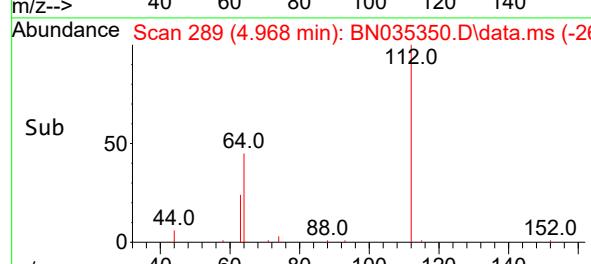
Tgt Ion: 42 Resp: 187
Ion Ratio Lower Upper
42 100
74 146.5 124.9 187.3
44 51.9 2.2 3.4#

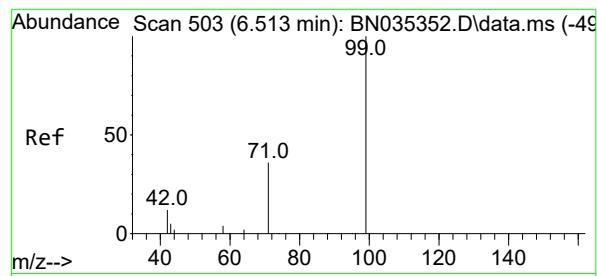


#4
2-Fluorophenol
Concen: 0.101 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



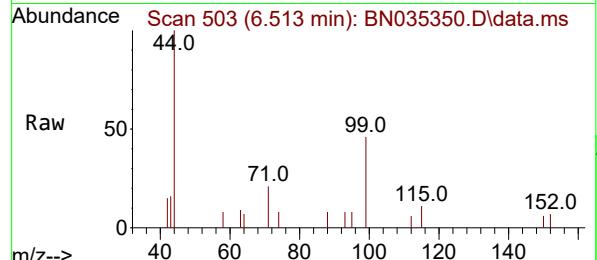
Tgt Ion: 112 Resp: 573
Ion Ratio Lower Upper
112 100
64 52.0 39.8 59.8
63 28.8 21.0 31.6



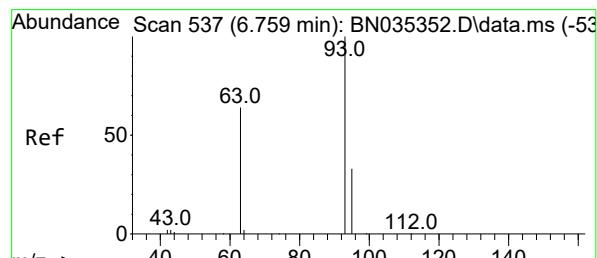
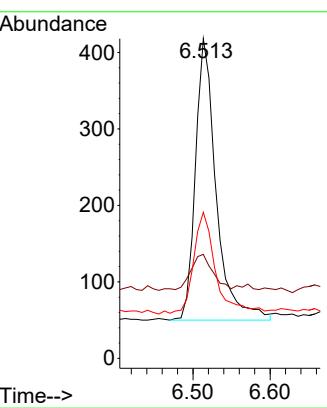
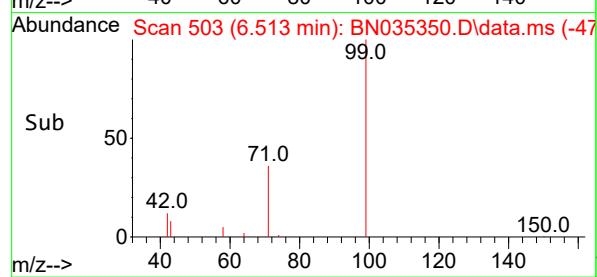


#5
Phenol-d6
Concen: 0.096 ng
RT: 6.513 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

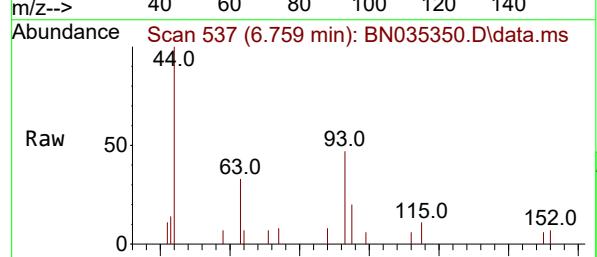
Instrument : BNA_N
ClientSampleId : SSTDICCO.1



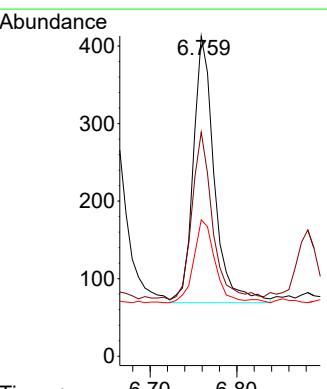
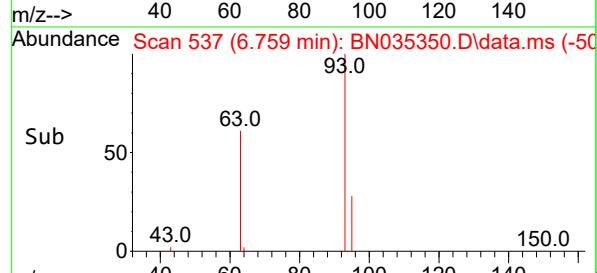
Tgt Ion: 99 Resp: 686
Ion Ratio Lower Upper
99 100
42 13.7 11.4 17.2
71 38.9 29.3 43.9

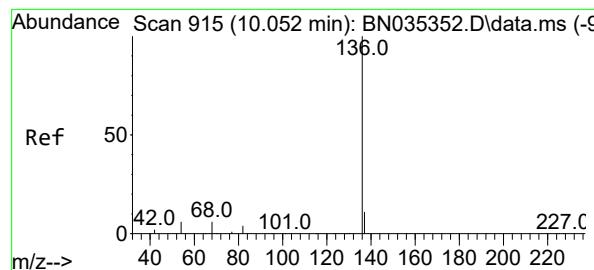


#6
bis(2-Chloroethyl)ether
Concen: 0.108 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



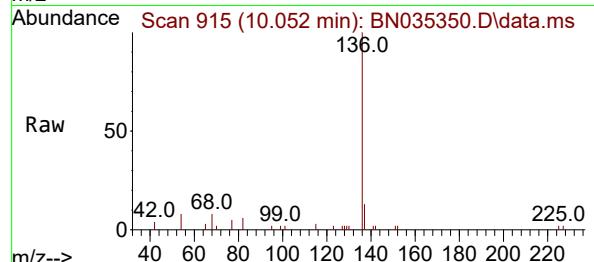
Tgt Ion: 93 Resp: 579
Ion Ratio Lower Upper
93 100
63 61.7 50.4 75.6
95 31.3 25.7 38.5





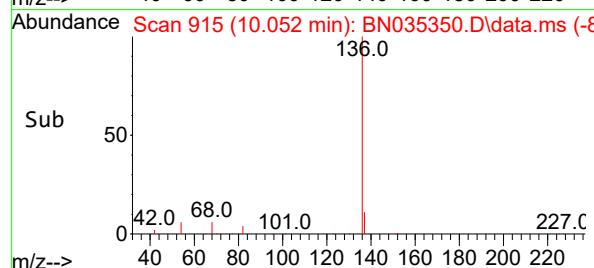
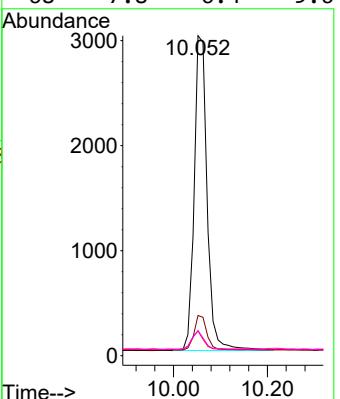
#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



Tgt Ion:136 Resp: 5753

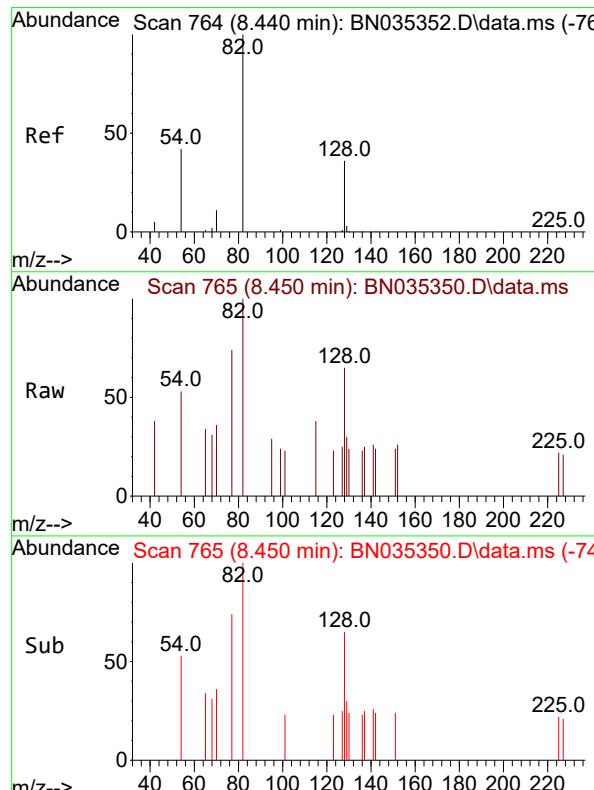
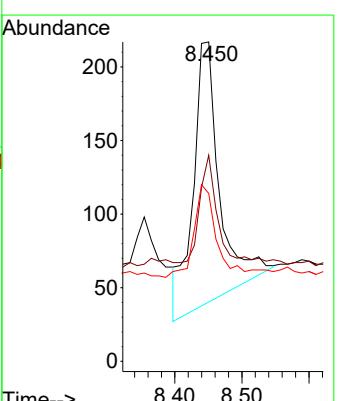
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.2	15.2
54	7.7	6.1	9.1
68	7.8	6.4	9.6



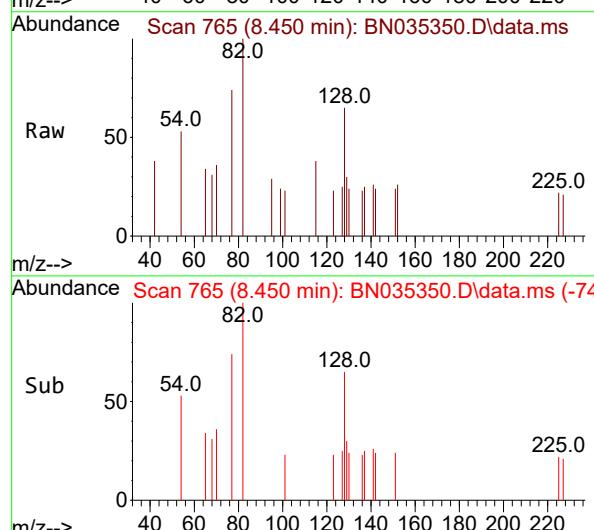
#8
 Nitrobenzene-d5
 Concen: 0.098 ng
 RT: 8.450 min Scan# 765
 Delta R.T. 0.011 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Tgt Ion: 82 Resp: 492

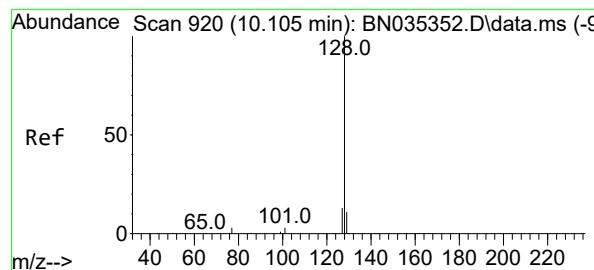
Ion	Ratio	Lower	Upper
82	100		
128	64.5	33.4	50.0
54	52.5	36.7	55.1



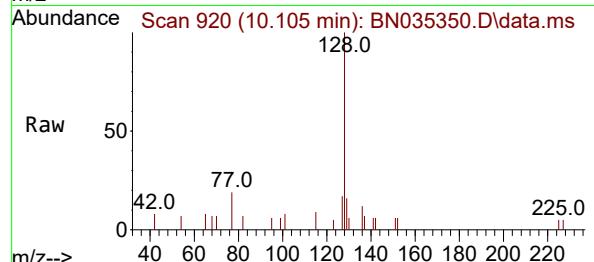
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



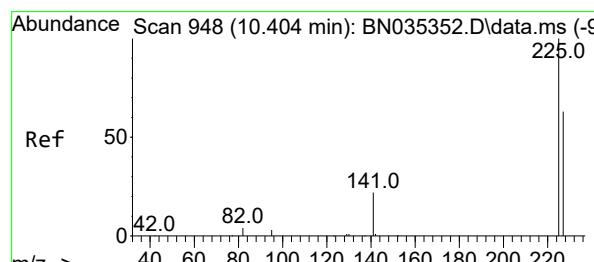
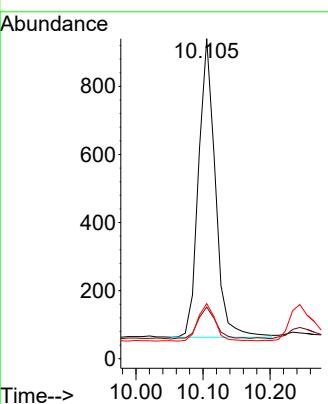
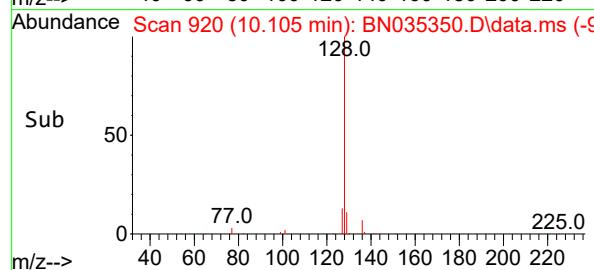
Abundance



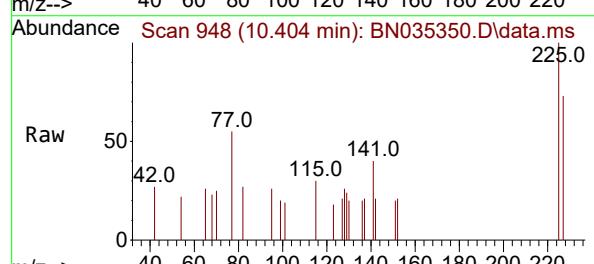
#9
Naphthalene
Concen: 0.102 ng
RT: 10.105 min Scan# 9
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035350.D ClientSampleId : SSTDICCO.1
Acq: 27 Nov 2024 15:34



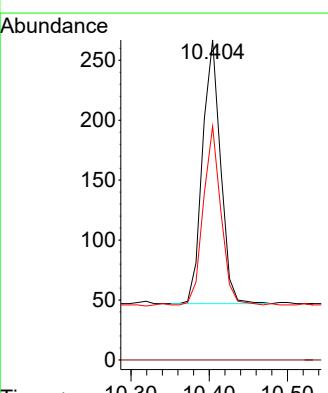
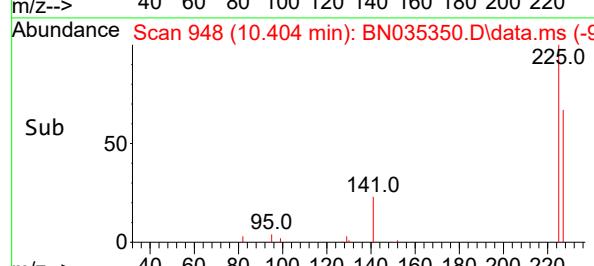
Tgt Ion:128 Resp: 1527
Ion Ratio Lower Upper
128 100
129 16.2 9.8 14.6#
127 17.2 11.4 17.2#

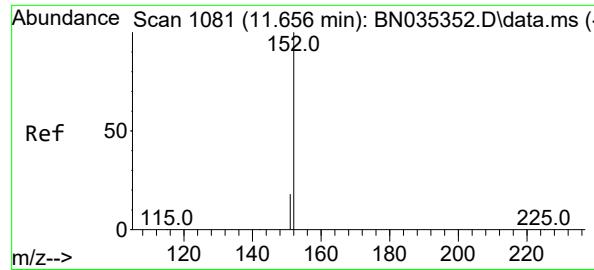


#10
Hexachlorobutadiene
Concen: 0.080 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34

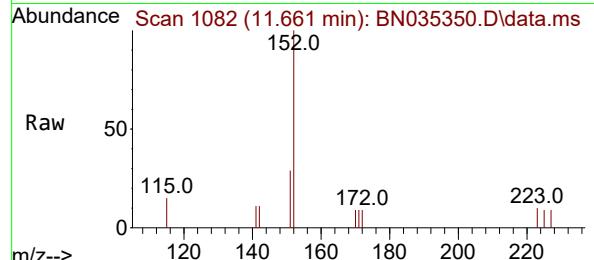


Tgt Ion:225 Resp: 352
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.2 51.3 76.9

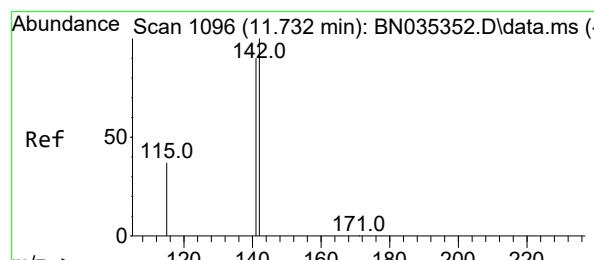
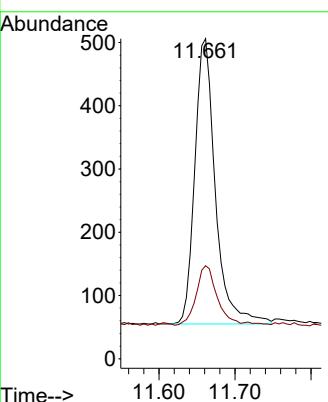
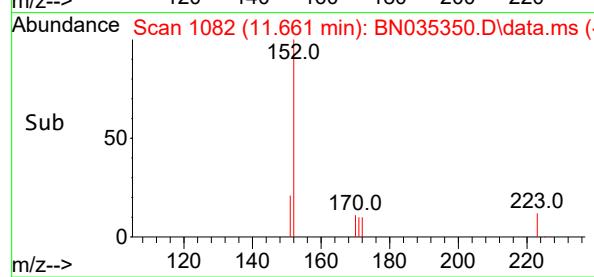




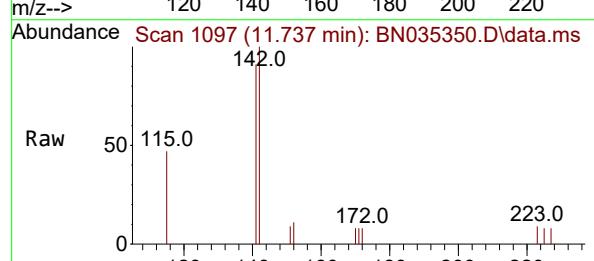
#11
2-Methylnaphthalene-d10
Concen: 0.083 ng
RT: 11.661 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.005 min
Lab File: BN035350.D
ClientSampleId : SSTDICCO.1
Acq: 27 Nov 2024 15:34



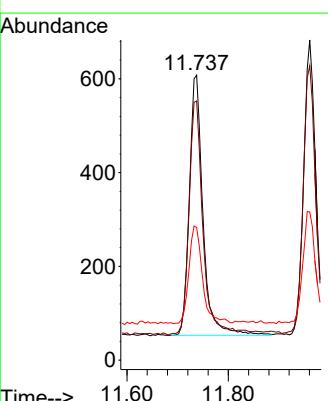
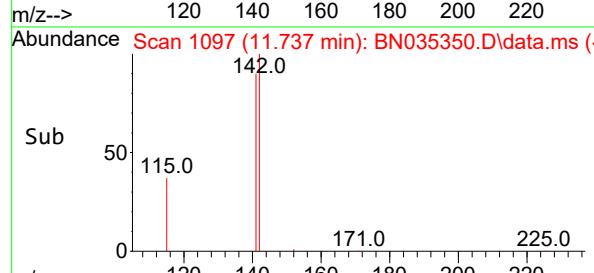
Tgt Ion:152 Resp: 850
Ion Ratio Lower Upper
152 100
151 21.1 16.6 25.0

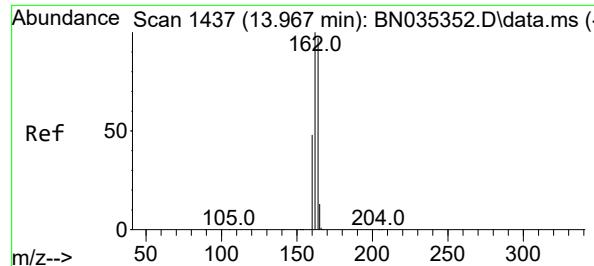


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



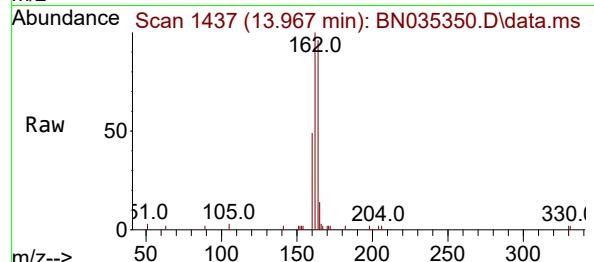
Tgt Ion:142 Resp: 1042
Ion Ratio Lower Upper
142 100
141 91.0 72.2 108.4
115 46.5 31.4 47.0



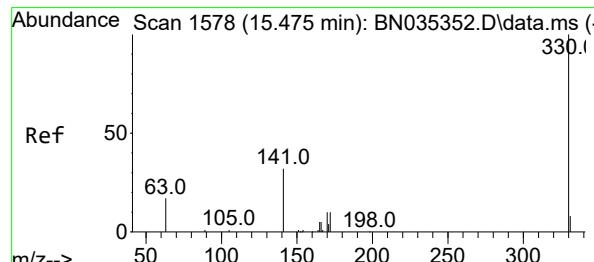
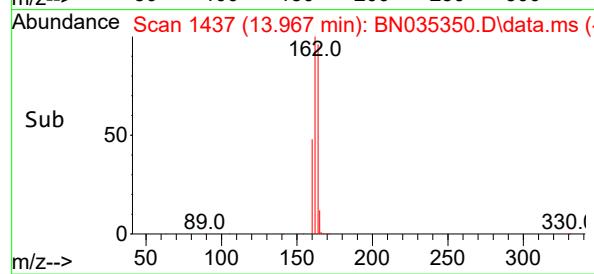
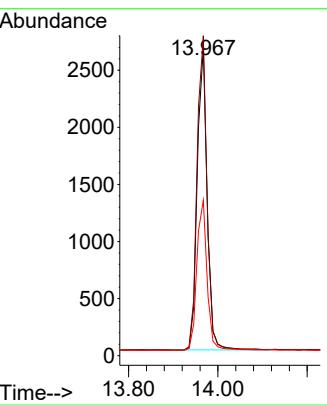


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1437
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

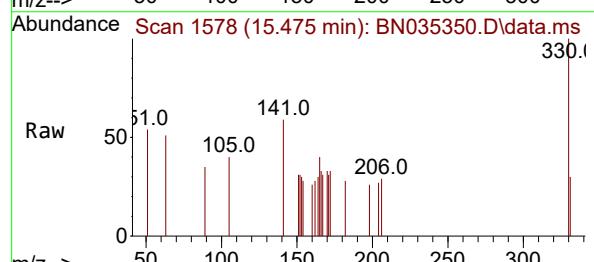
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



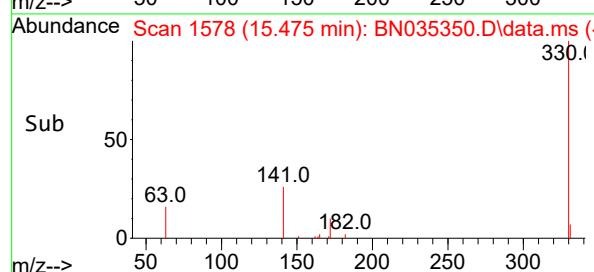
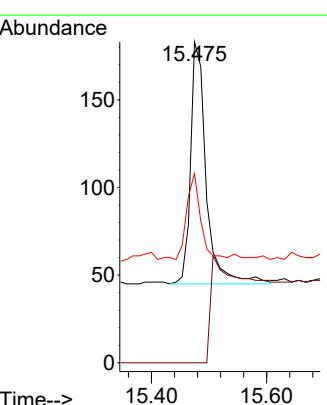
Tgt Ion:164 Resp: 4077
 Ion Ratio Lower Upper
 164 100
 162 103.9 82.2 123.2
 160 50.4 40.1 60.1

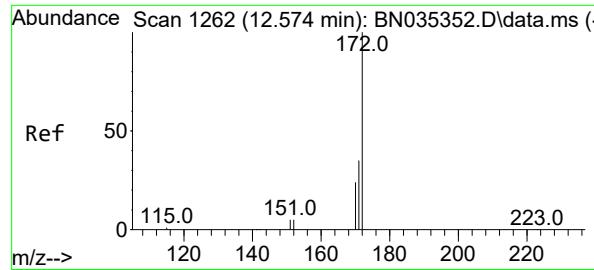


#14
 2,4,6-Tribromophenol
 Concen: 0.095 ng
 RT: 15.475 min Scan# 1578
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

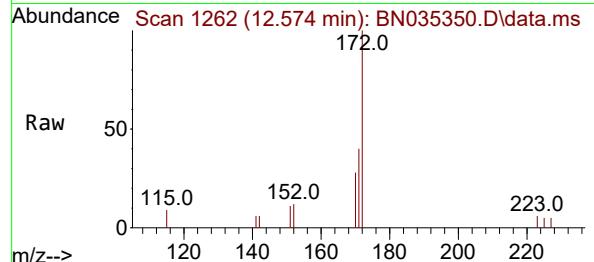


Tgt Ion:330 Resp: 278
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 29.1 26.6 40.0

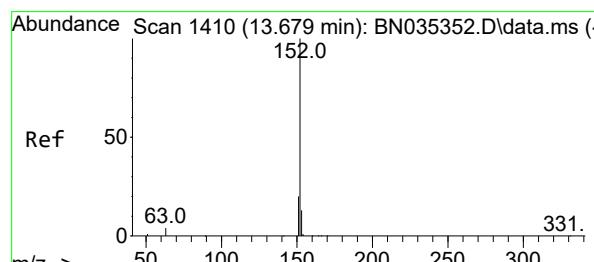
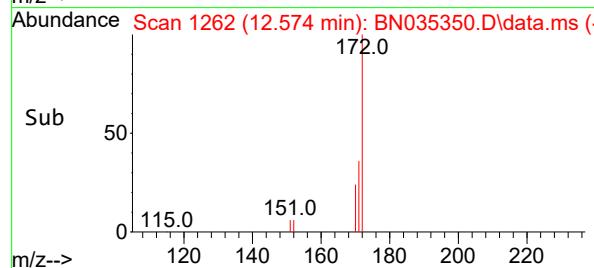
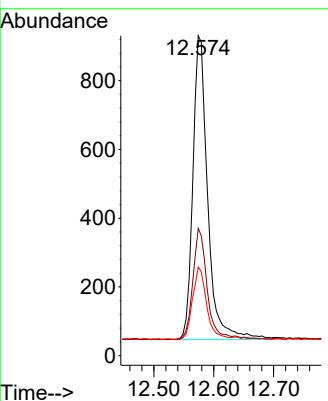




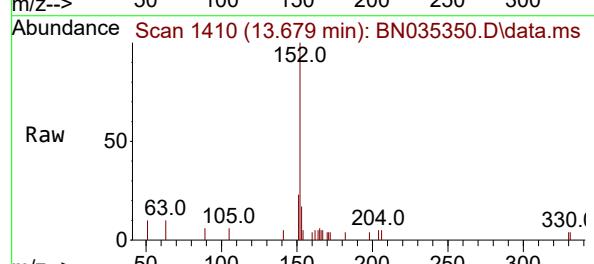
#15
2-Fluorobiphenyl
Concen: 0.092 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035350.D ClientSampleId : SSTDICCO.1
Acq: 27 Nov 2024 15:34



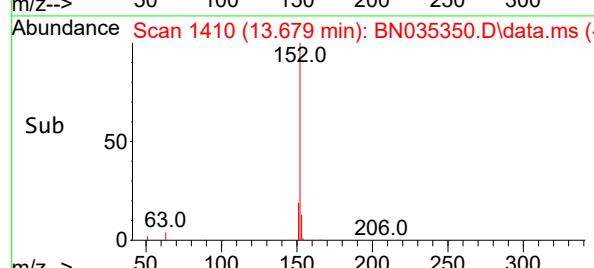
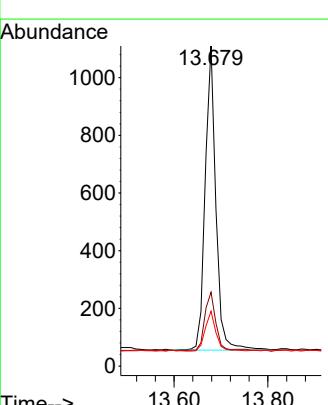
Tgt Ion:172 Resp: 1518
Ion Ratio Lower Upper
172 100
171 39.7 29.0 43.4
170 27.7 19.8 29.8

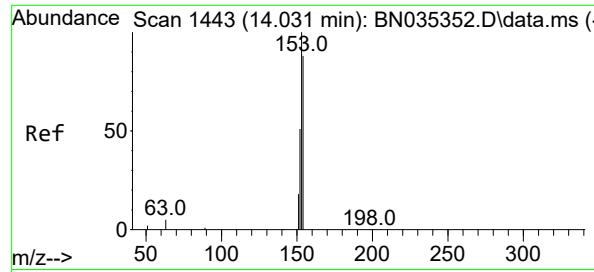


#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.679 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



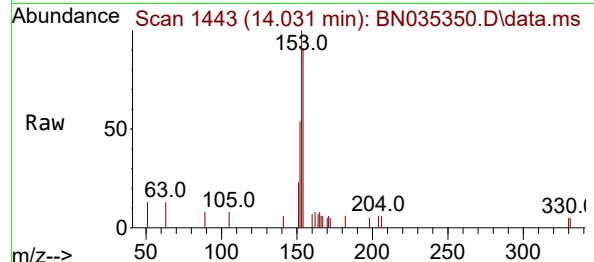
Tgt Ion:152 Resp: 1675
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2
153 13.1 10.4 15.6



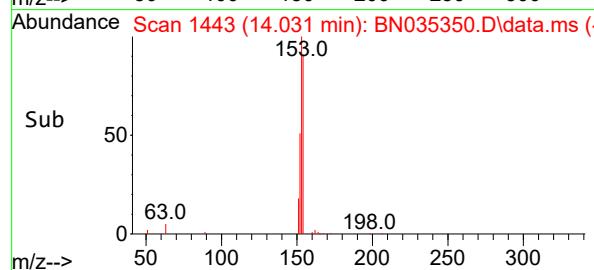
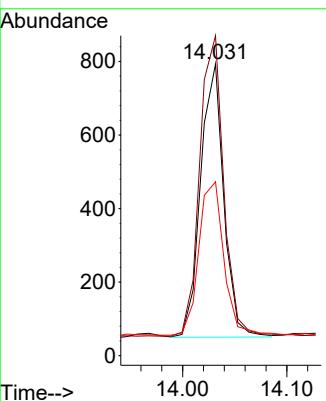


#17
 Acenaphthene
 Concen: 0.100 ng
 RT: 14.031 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

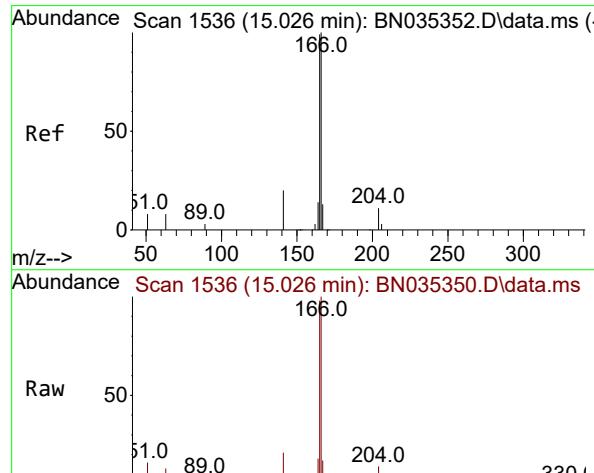
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



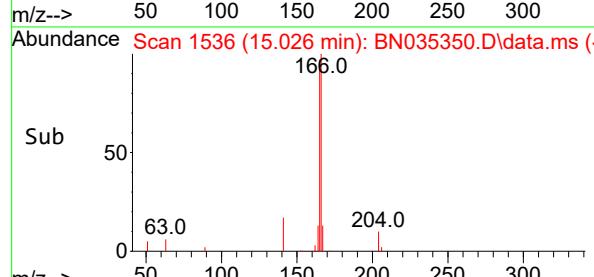
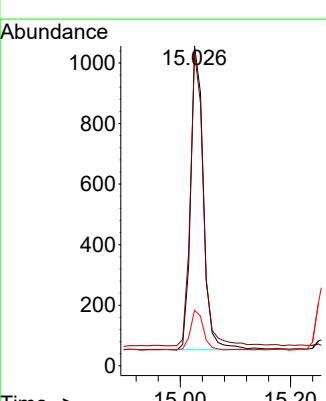
Tgt Ion:154 Resp: 1143
 Ion Ratio Lower Upper
 154 100
 153 115.0 92.6 139.0
 152 60.9 49.0 73.6

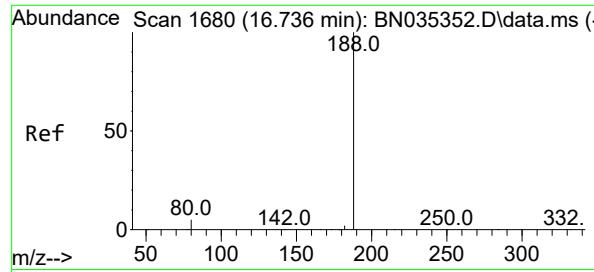


#18
 Fluorene
 Concen: 0.096 ng
 RT: 15.026 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34



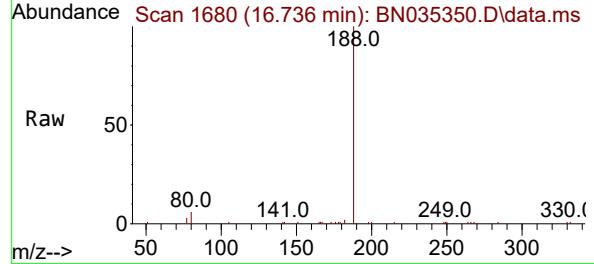
Tgt Ion:166 Resp: 1620
 Ion Ratio Lower Upper
 166 100
 165 97.7 79.7 119.5
 167 13.1 10.8 16.2



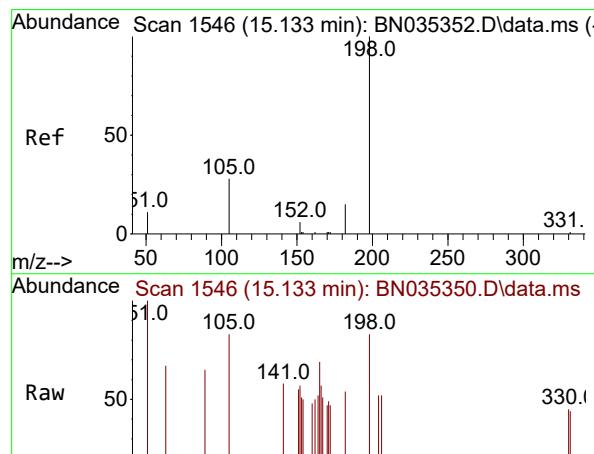
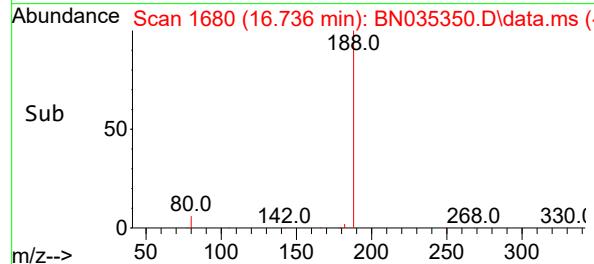
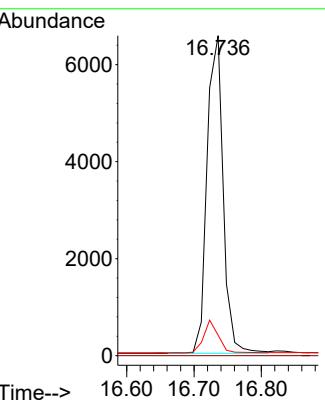


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.736 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

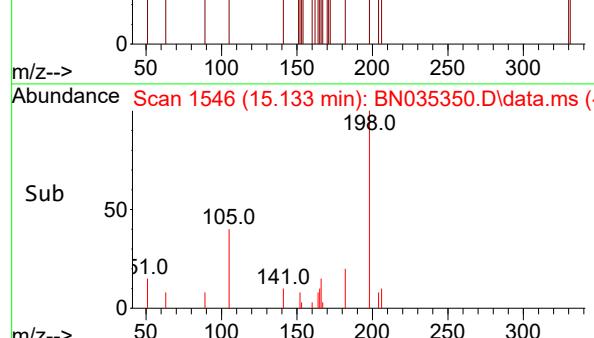
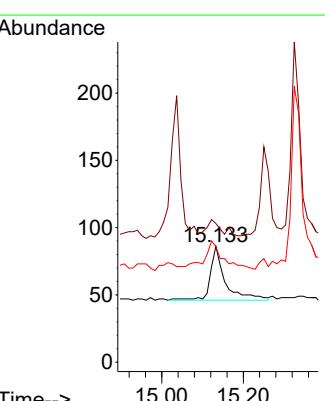


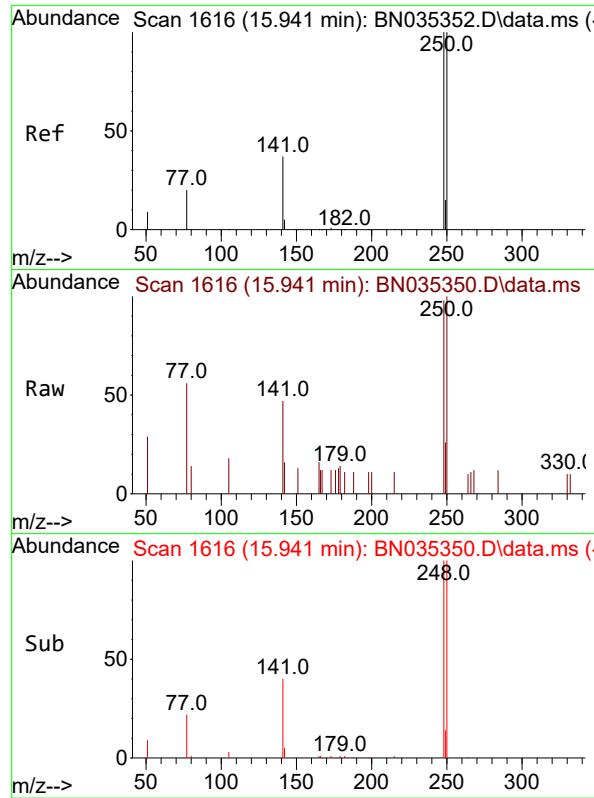
Tgt Ion:188 Resp: 10855
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 6.4 4.6 6.8



#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#

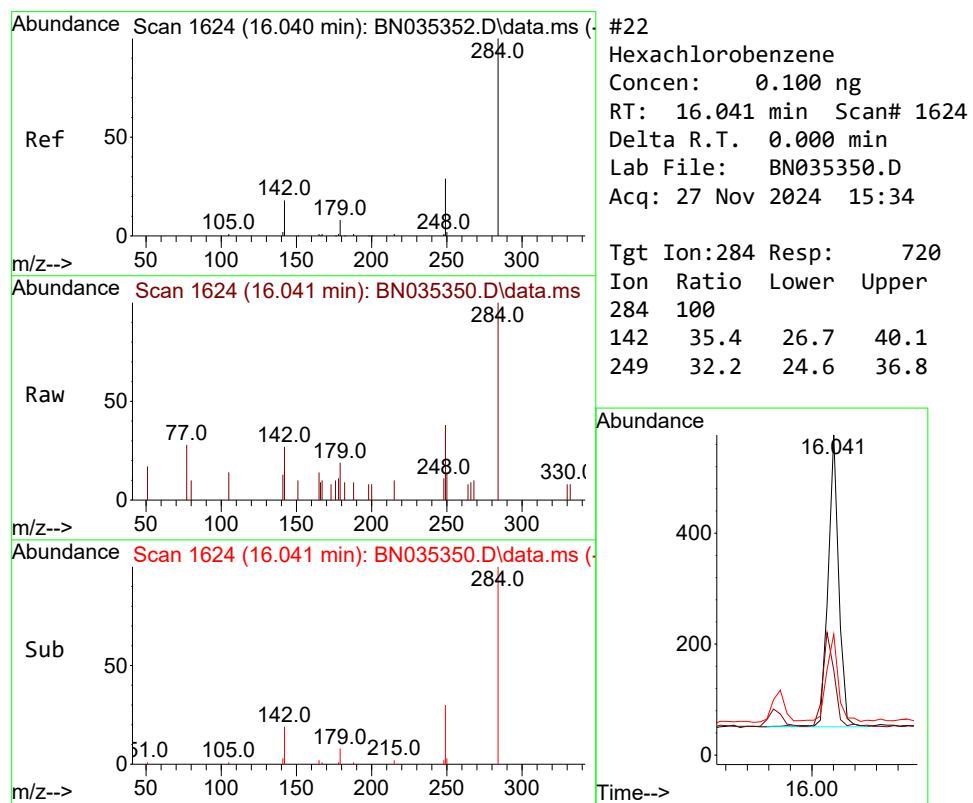
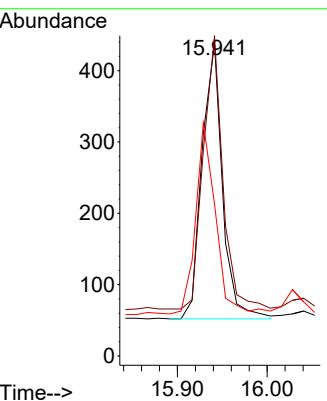




#21
 4-Bromophenyl-phenylether
 Concen: 0.088 ng
 RT: 15.941 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

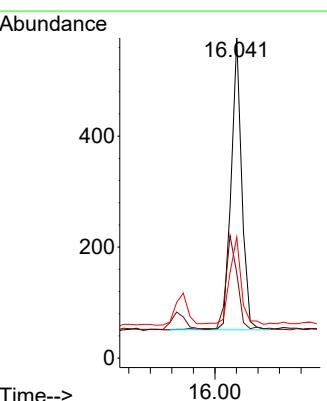
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

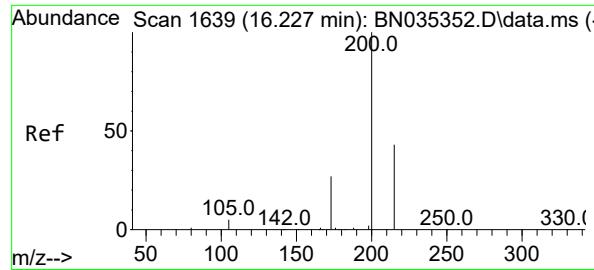
Tgt Ion:248 Resp: 612
 Ion Ratio Lower Upper
 248 100
 250 102.5 80.6 120.8
 141 48.6 31.5 47.3#



#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

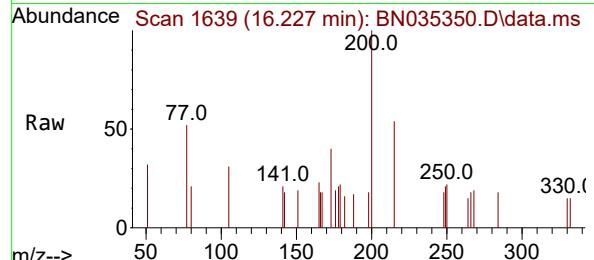
Tgt Ion:284 Resp: 720
 Ion Ratio Lower Upper
 284 100
 142 35.4 26.7 40.1
 249 32.2 24.6 36.8



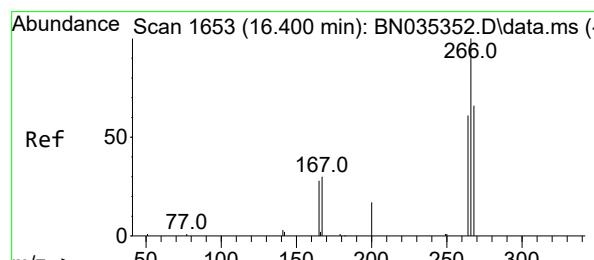
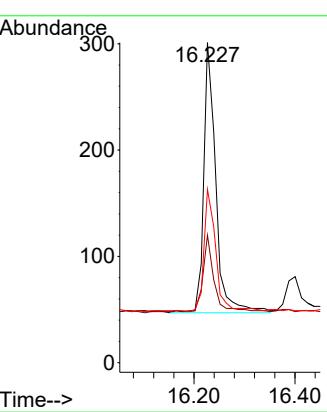
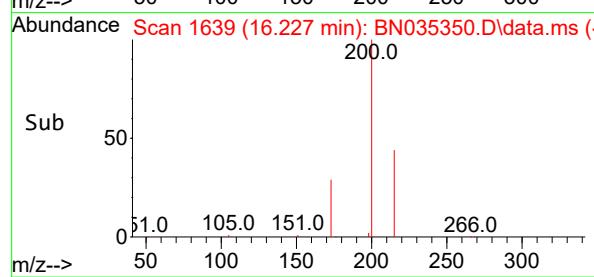


#23
 Atrazine
 Concen: 0.068 ng
 RT: 16.227 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

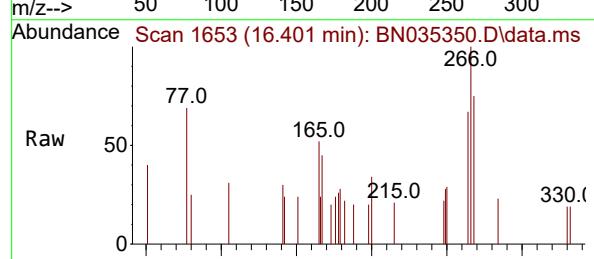
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



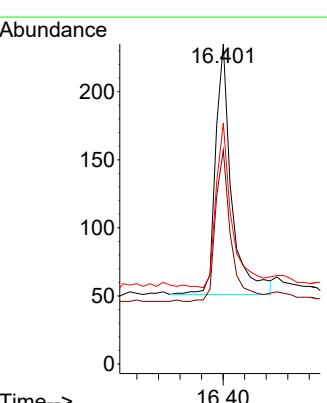
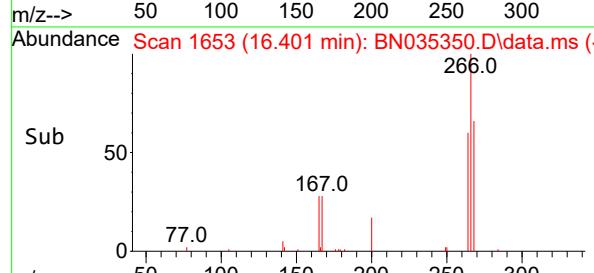
Tgt Ion:200 Resp: 421
 Ion Ratio Lower Upper
 200 100
 173 39.9 24.1 36.1#
 215 54.2 36.9 55.3

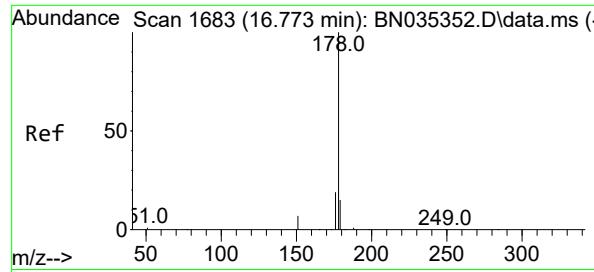


#24
 Pentachlorophenol
 Concen: 0.114 ng
 RT: 16.401 min Scan# 1653
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34



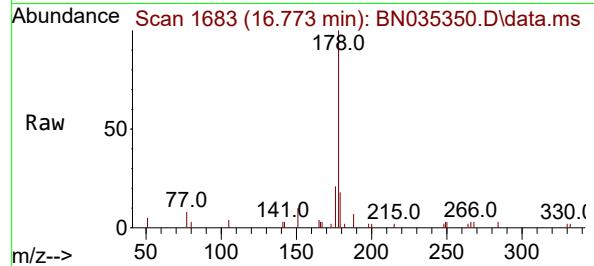
Tgt Ion:266 Resp: 381
 Ion Ratio Lower Upper
 266 100
 264 58.3 42.3 63.5
 268 63.3 43.3 64.9



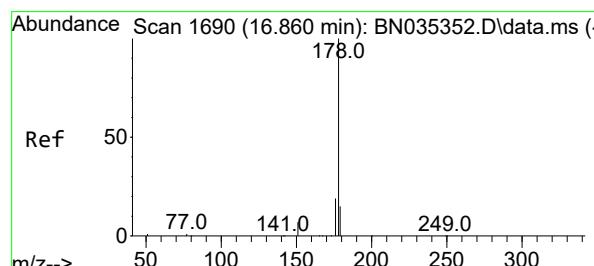
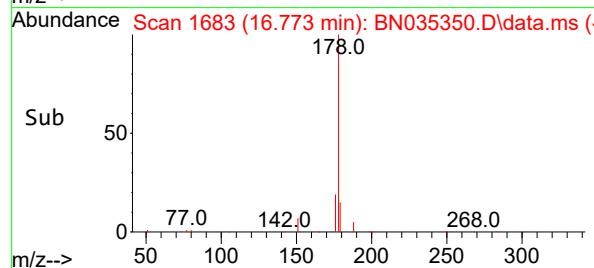
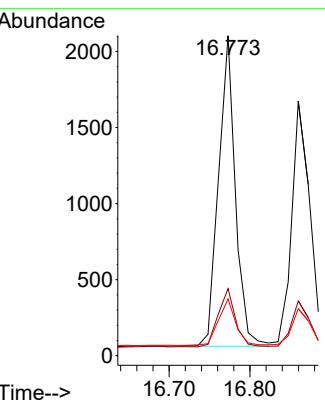


#25
 Phenanthrene
 Concen: 0.104 ng
 RT: 16.773 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

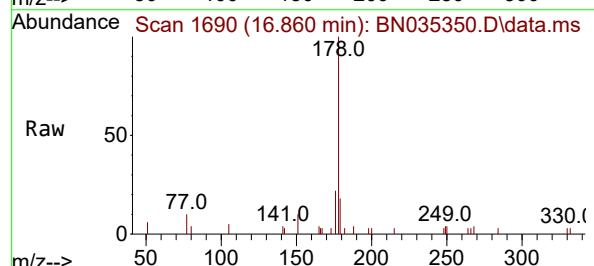
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1



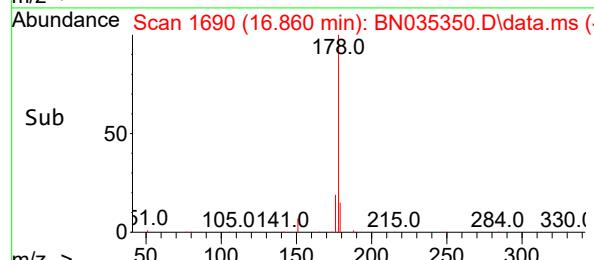
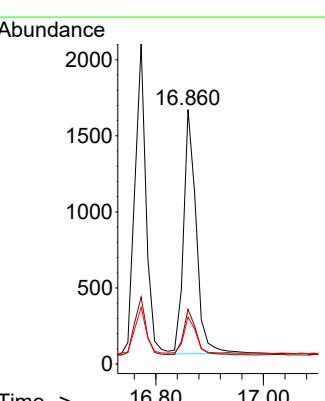
Tgt Ion:178 Resp: 2963
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.4 23.2
 179 15.6 12.3 18.5

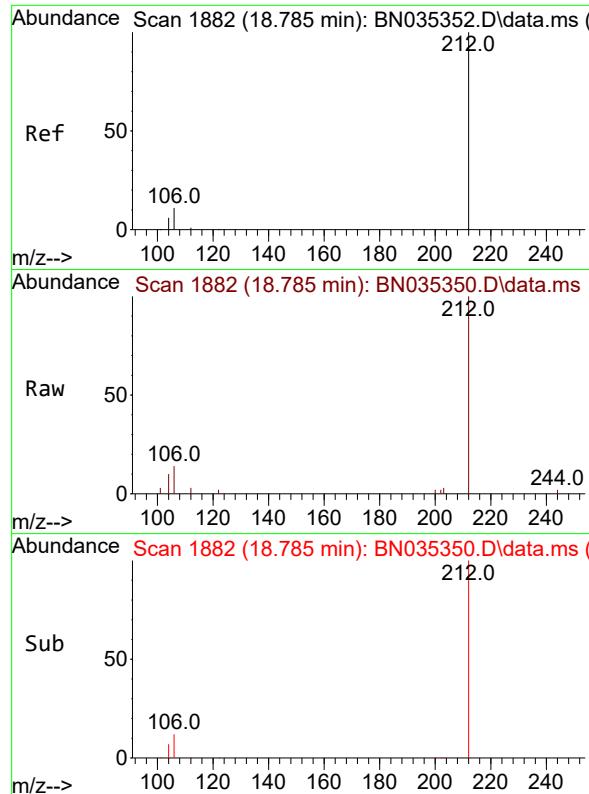


#26
 Anthracene
 Concen: 0.100 ng
 RT: 16.860 min Scan# 1690
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34



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

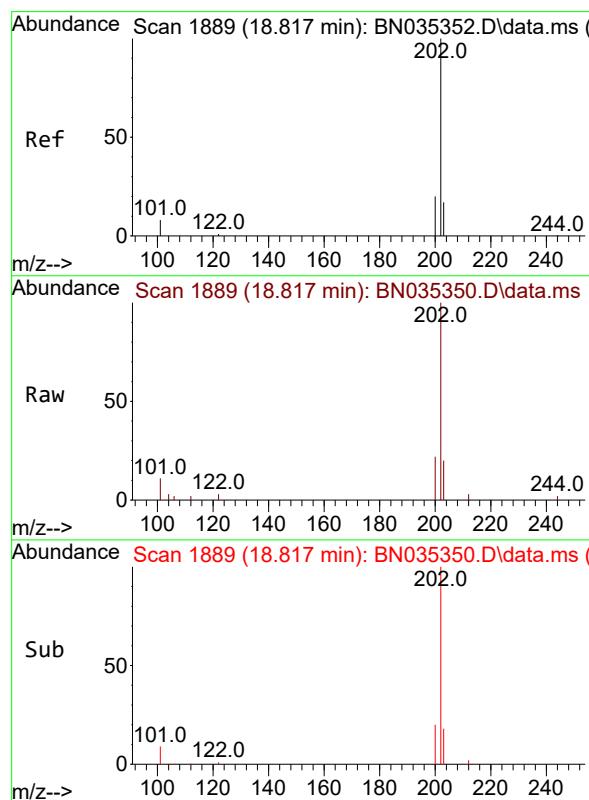
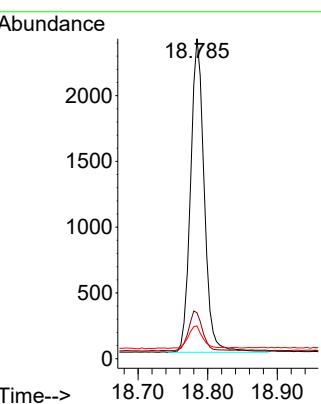




#27
 Fluoranthene-d10
 Concen: 0.098 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

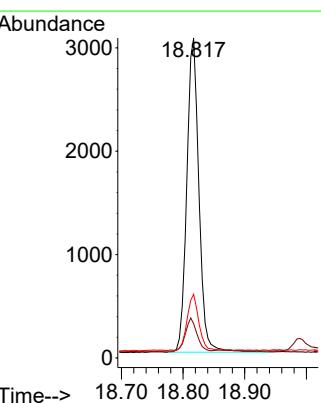
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

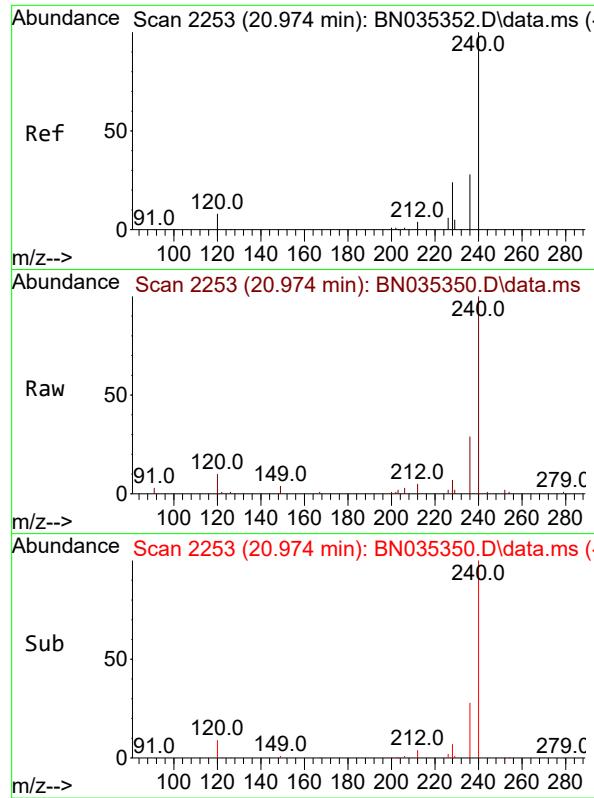
Tgt Ion:212 Resp: 3265
 Ion Ratio Lower Upper
 212 100
 106 12.8 9.2 13.8
 104 7.6 5.3 7.9



#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

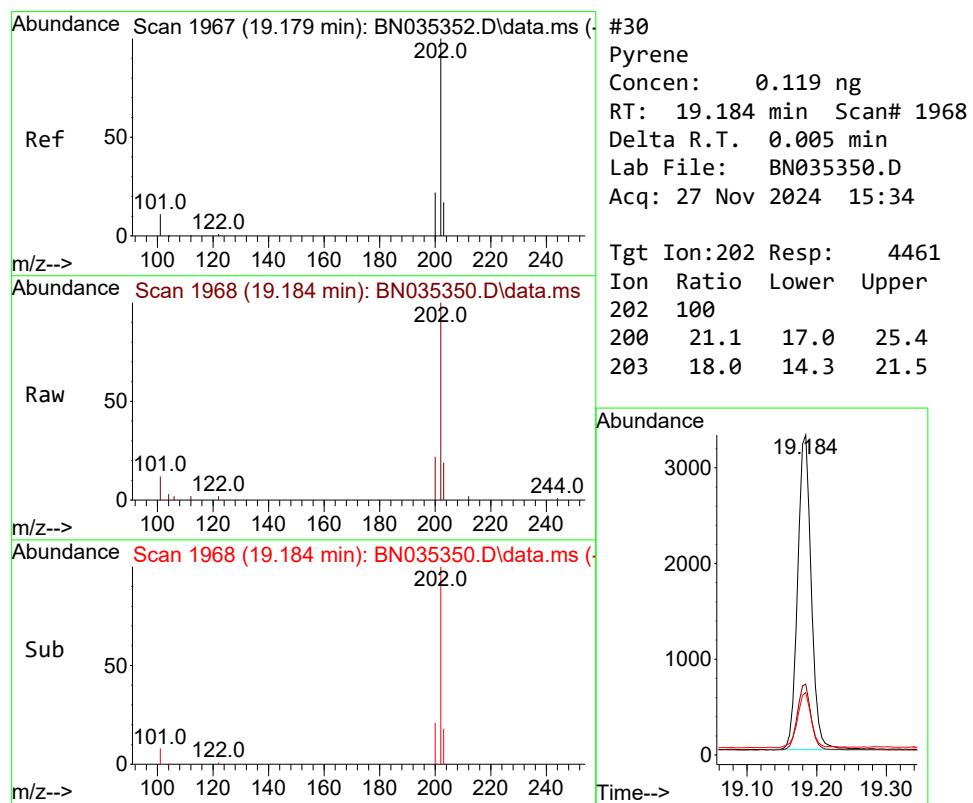
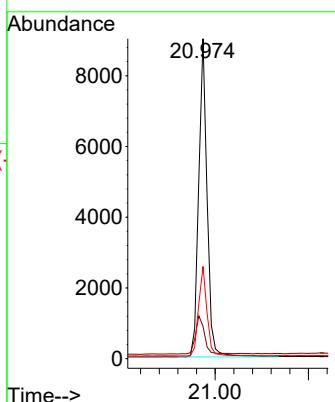




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

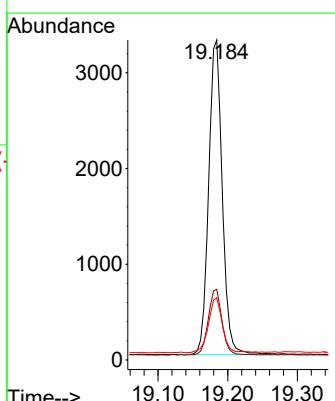
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

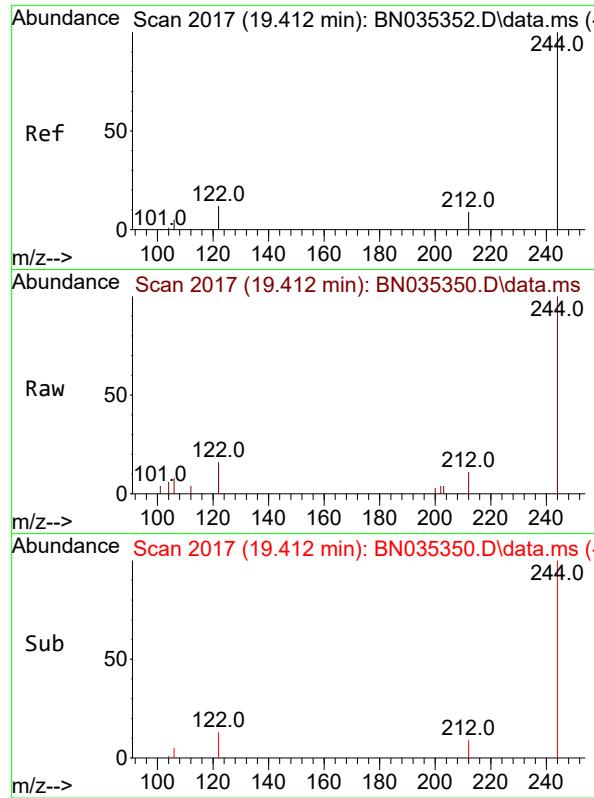
Tgt Ion:240 Resp: 11269
 Ion Ratio Lower Upper
 240 100
 120 10.1 7.9 11.9
 236 28.8 22.9 34.3



#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

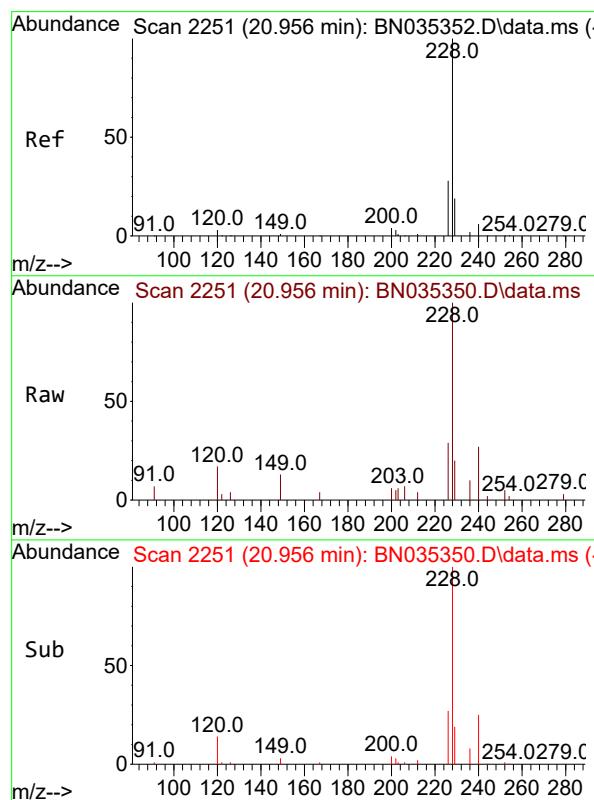
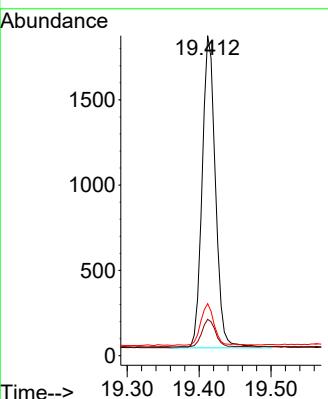




#31
 Terphenyl-d14
 Concen: 0.099 ng
 RT: 19.412 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

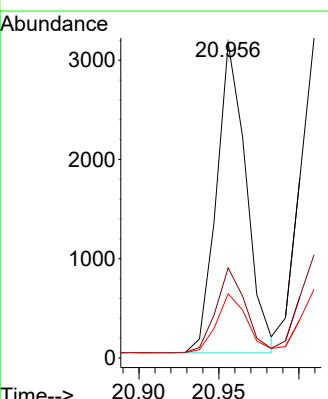
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

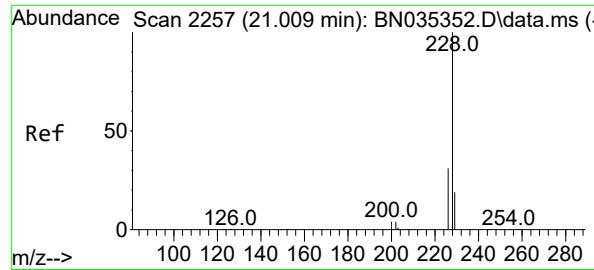
Tgt Ion:244 Resp: 2344
 Ion Ratio Lower Upper
 244 100
 212 11.4 8.1 12.1
 122 16.3 10.3 15.5#



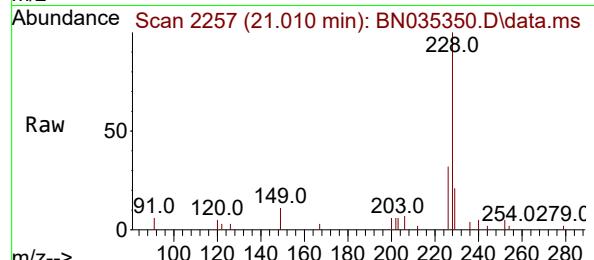
#32
 Benzo(a)anthracene
 Concen: 0.103 ng
 RT: 20.956 min Scan# 2251
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

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

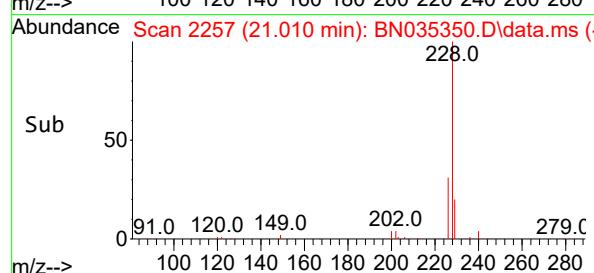
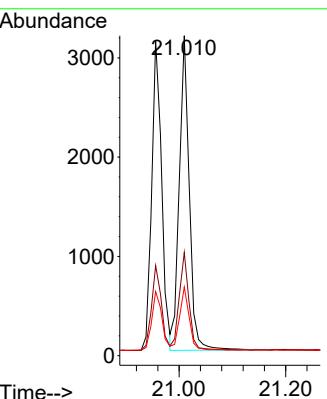




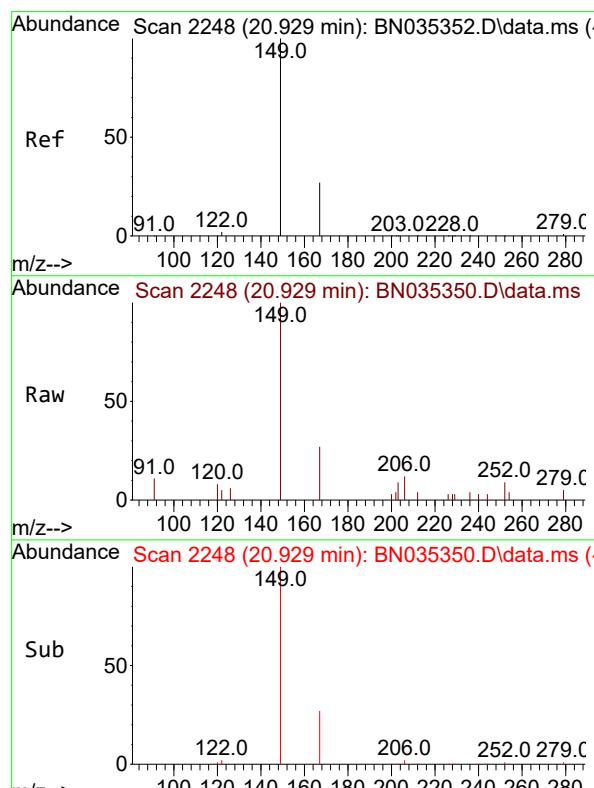
#33
Chrysene
Concen: 0.106 ng
RT: 21.010 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035350.D ClientSampleId : SSTDICCO.1
Acq: 27 Nov 2024 15:34



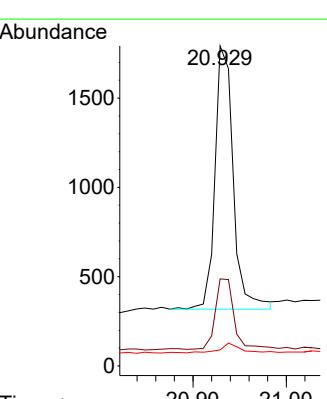
Tgt Ion:228 Resp: 4123
Ion Ratio Lower Upper
228 100
226 32.3 24.6 37.0
229 21.5 15.9 23.9

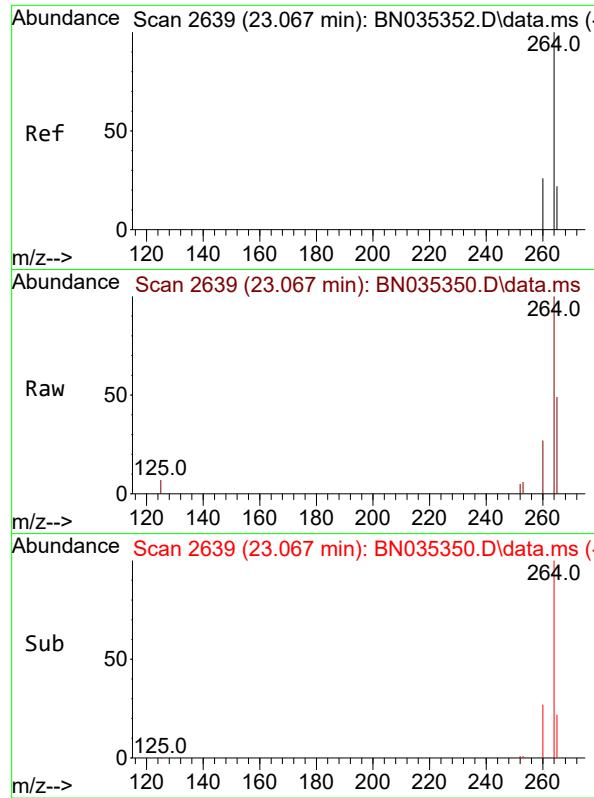


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 20.929 min Scan# 2248
Delta R.T. 0.000 min
Lab File: BN035350.D
Acq: 27 Nov 2024 15:34



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

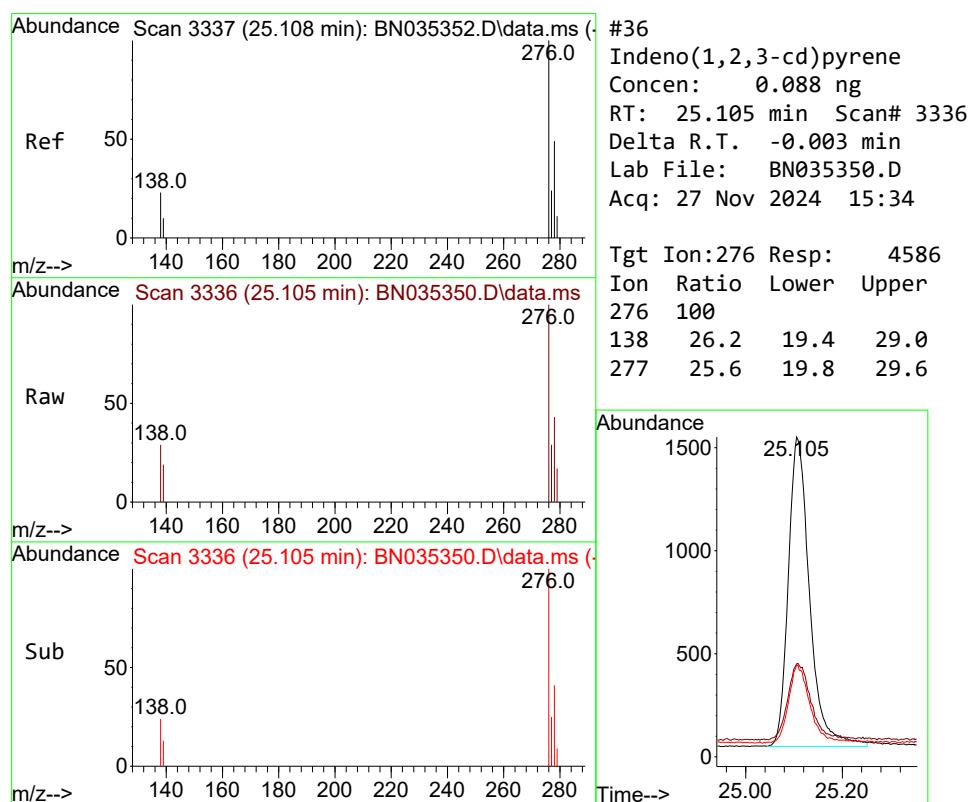
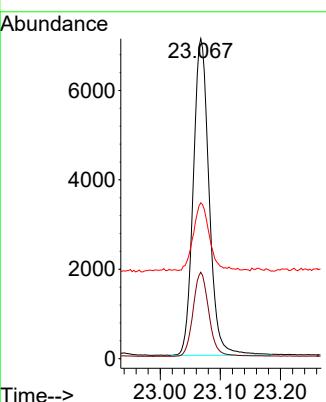




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.067 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

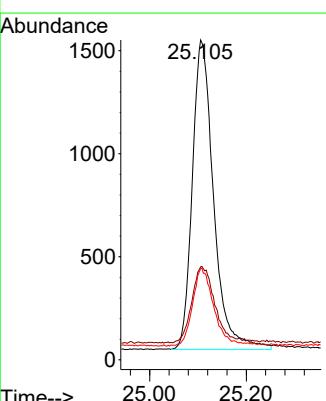
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

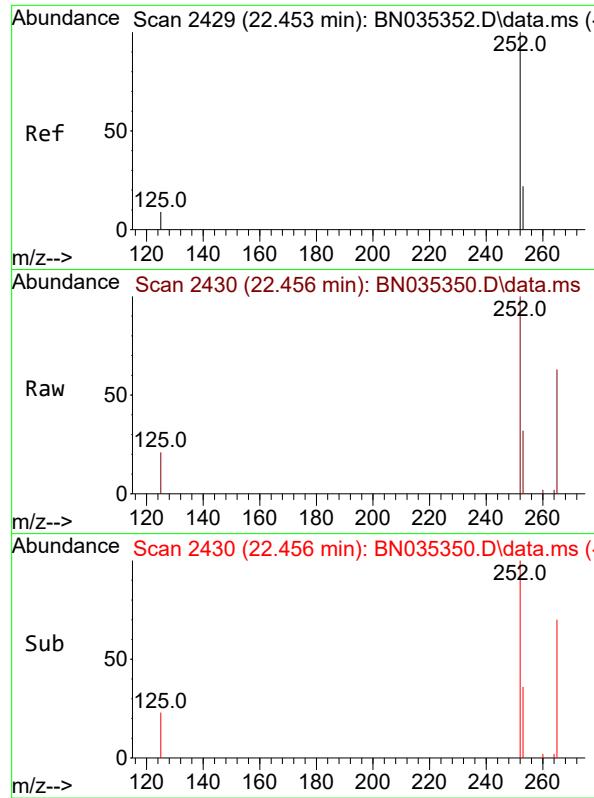
Tgt Ion:264 Resp: 13004
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 48.7 40.2 60.4



#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

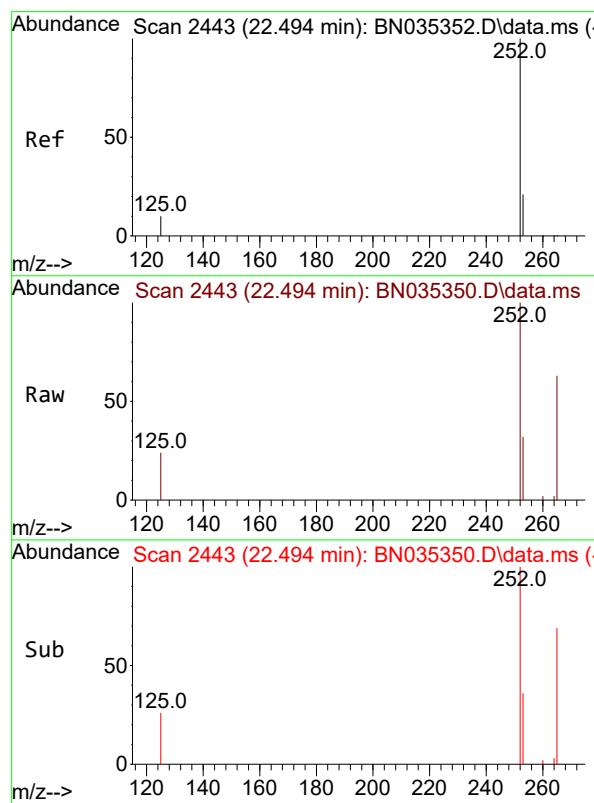
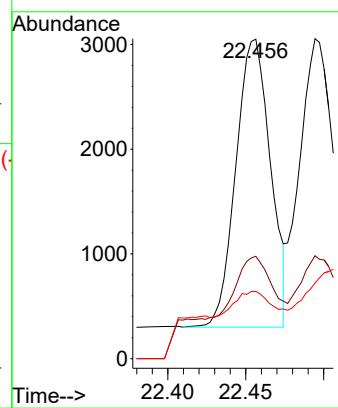




#37
 Benzo(b)fluoranthene
 Concen: 0.097 ng
 RT: 22.456 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

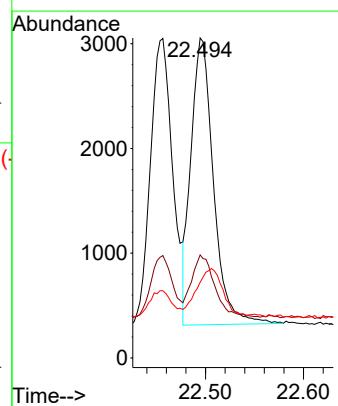
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

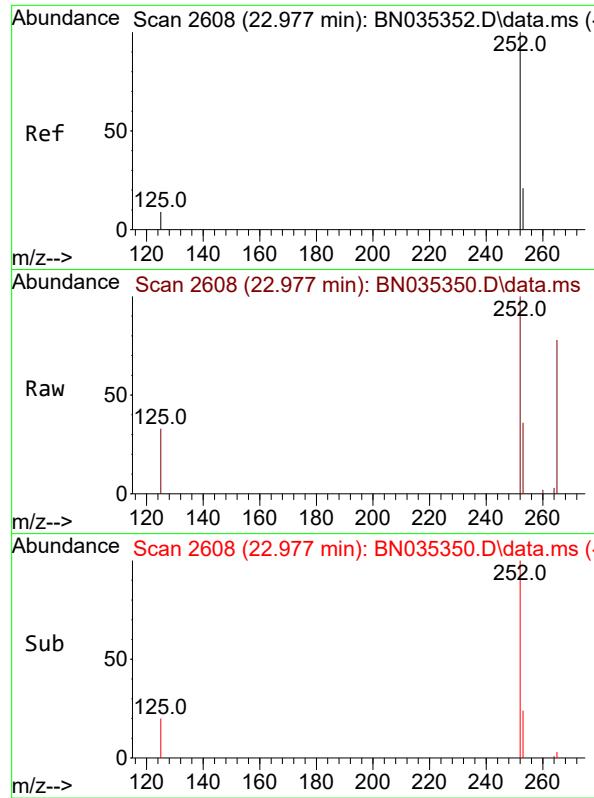
Tgt Ion:252 Resp: 4243
 Ion Ratio Lower Upper
 252 100
 253 32.1 19.6 29.4#
 125 21.0 9.6 14.4#



#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#

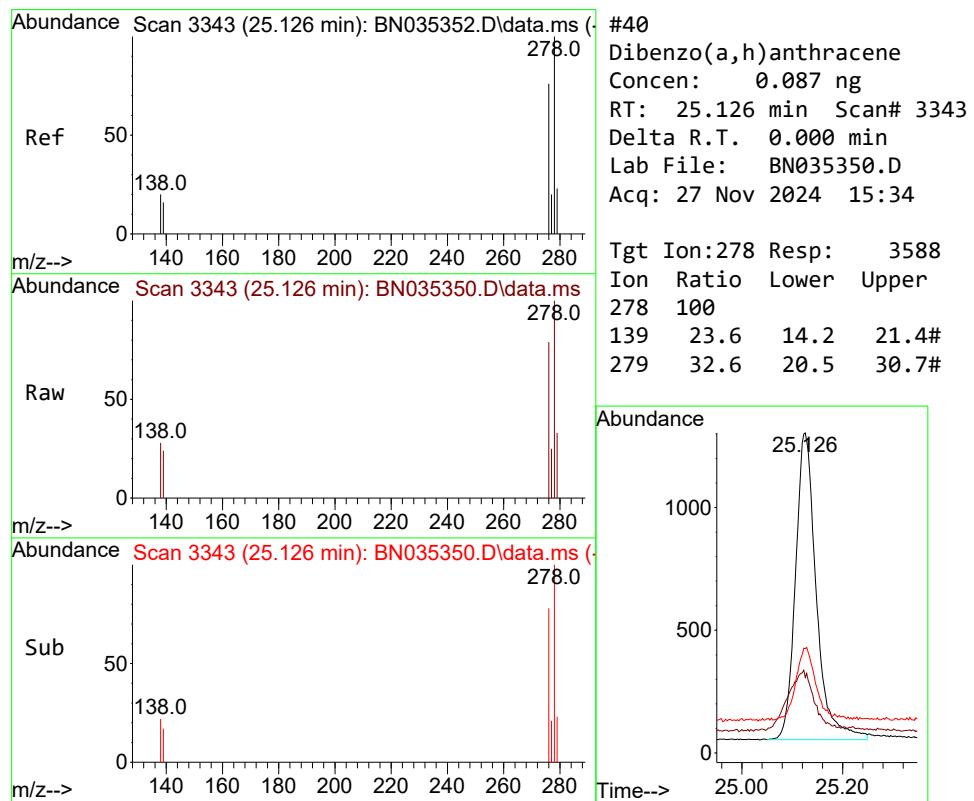
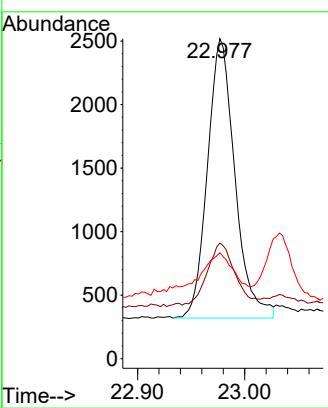




#39
 Benzo(a)pyrene
 Concen: 0.102 ng
 RT: 22.977 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

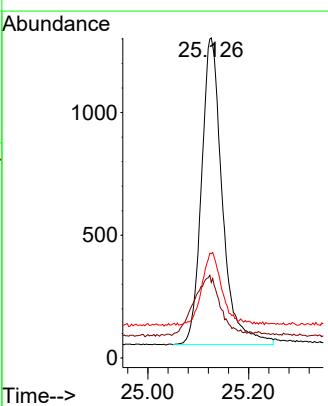
Instrument : BNA_N
 ClientSampleId : SSTDICCO.1

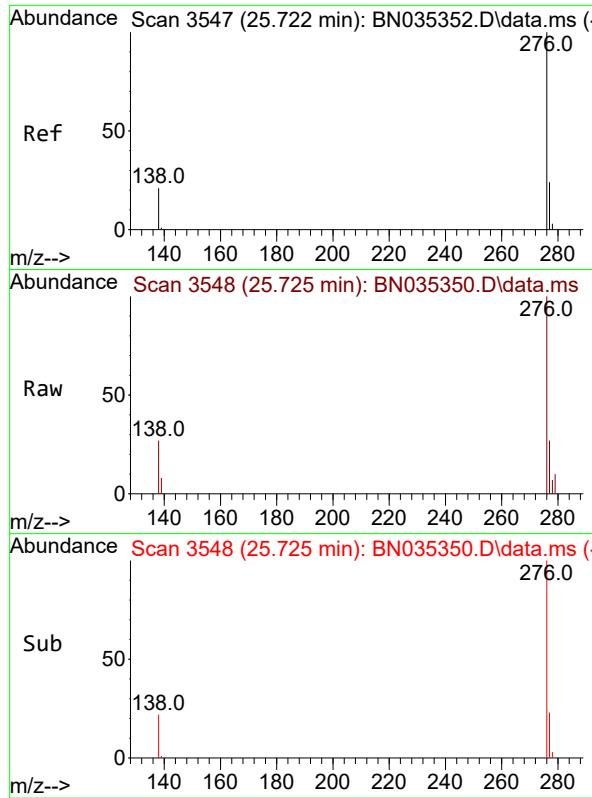
Tgt Ion:252 Resp: 3913
 Ion Ratio Lower Upper
 252 100
 253 36.1 20.2 30.4#
 125 33.1 10.9 16.3#



#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#

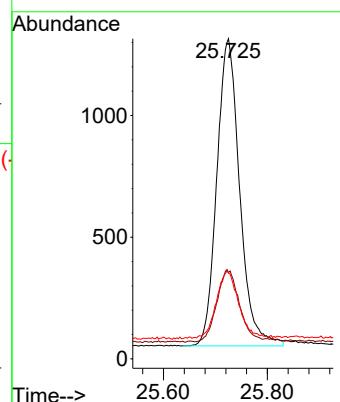




#41
 Benzo(g,h,i)perylene
 Concen: 0.088 ng
 RT: 25.725 min Scan# 3
 Delta R.T. 0.003 min
 Lab File: BN035350.D
 Acq: 27 Nov 2024 15:34

Instrument : BNA_N
 ClientSampleId : SSTDICCO.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#



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

Instrument :
BNA_N
ClientSampleId :
SSTDICCO.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

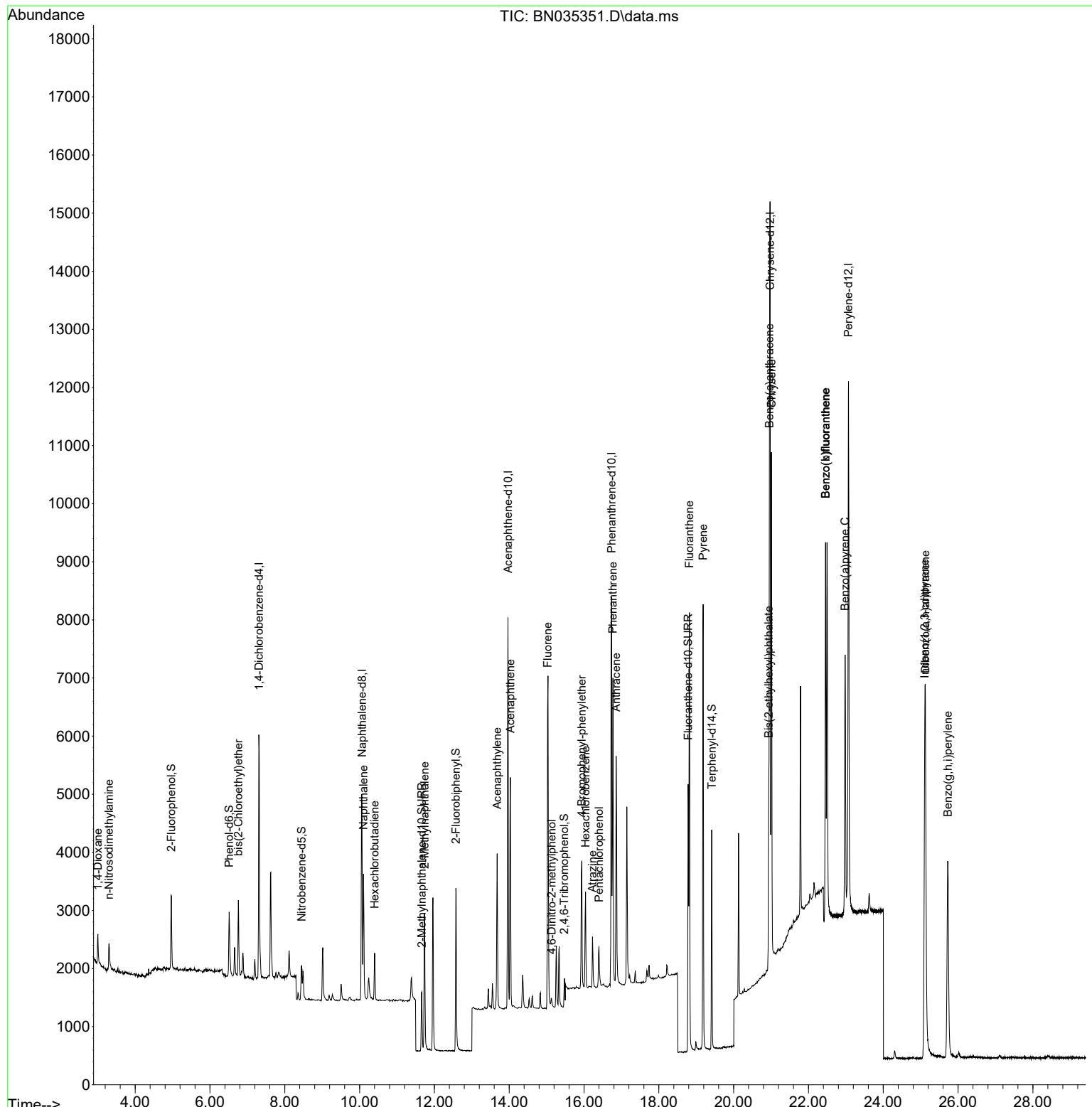
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2084	0.400	ng	0.00
7) Naphthalene-d8	10.063	136	5334	0.400	ng	# 0.01
13) Acenaphthene-d10	13.967	164	3808	0.400	ng	0.00
19) Phenanthrene-d10	16.735	188	9904	0.400	ng	0.00
29) Chrysene-d12	20.974	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

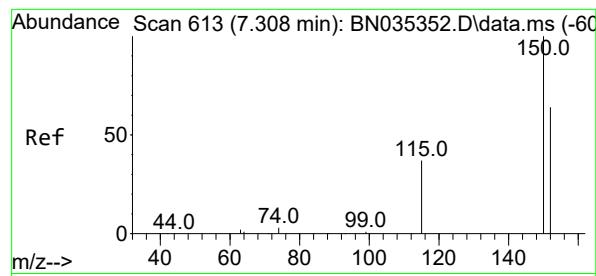
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

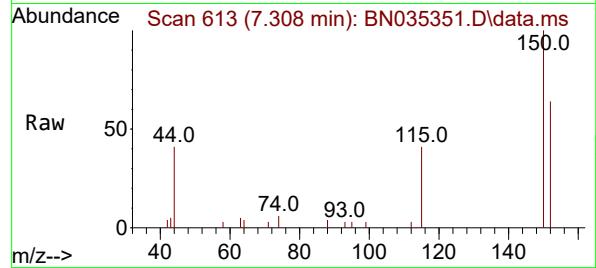
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCO.2

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

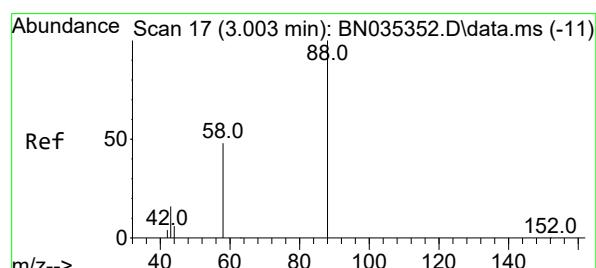
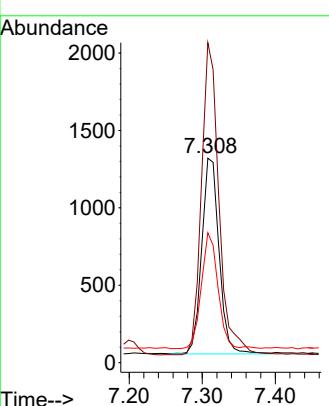
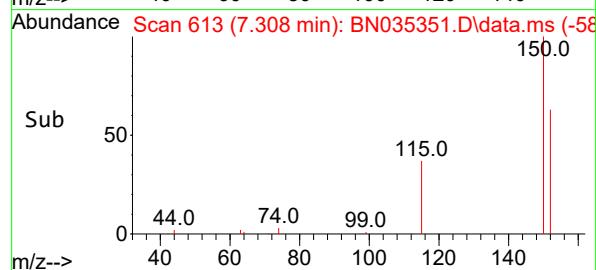




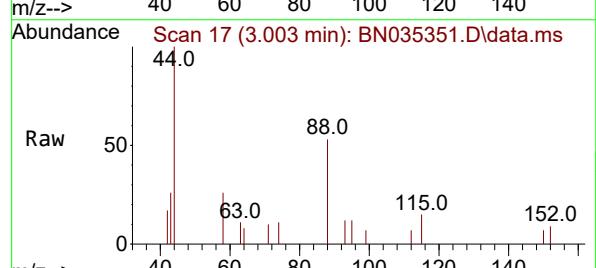
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035351.D
ClientSampleId : SSTDICCO.2
Acq: 27 Nov 2024 16:10



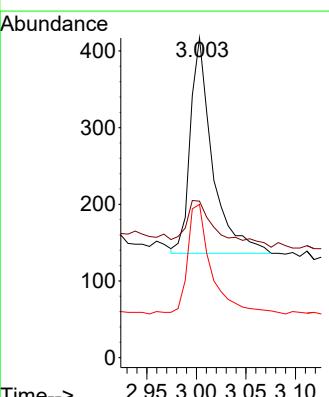
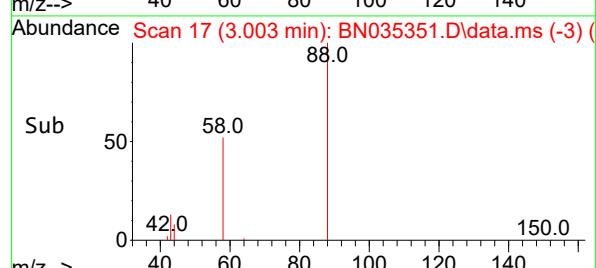
Tgt Ion:152 Resp: 2084
Ion Ratio Lower Upper
152 100
150 156.5 124.0 186.0
115 63.5 49.6 74.4

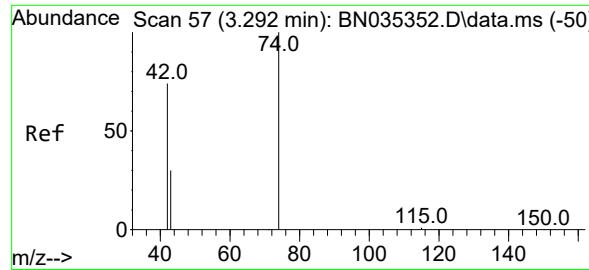


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



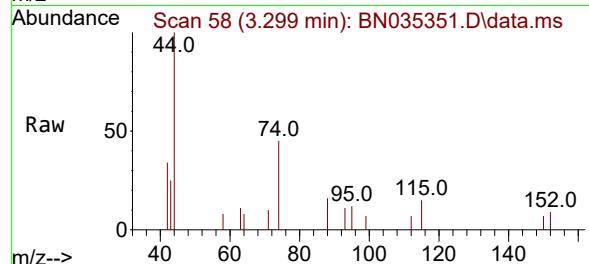
Tgt Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 29.9 17.2 25.8#
58 55.2 44.5 66.7



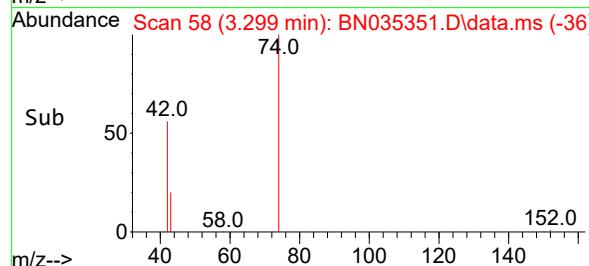
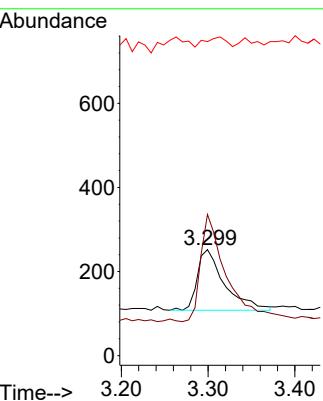


#3
n-Nitrosodimethylamine
Concen: 0.179 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

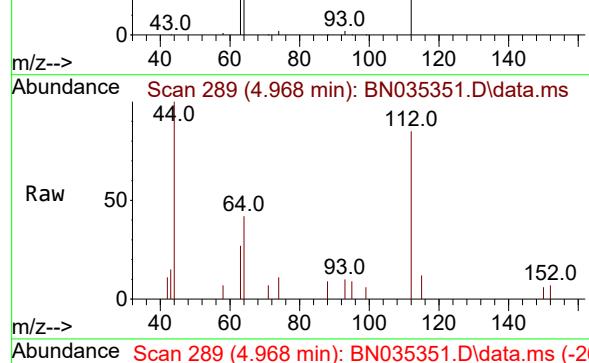
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



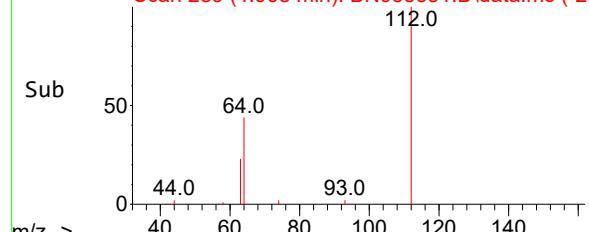
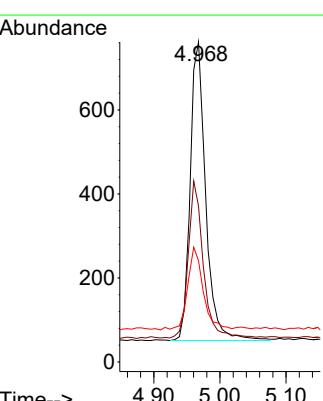
Tgt Ion: 42 Resp: 315
Ion Ratio Lower Upper
42 100
74 172.4 124.9 187.3
44 16.2 2.2 3.4#

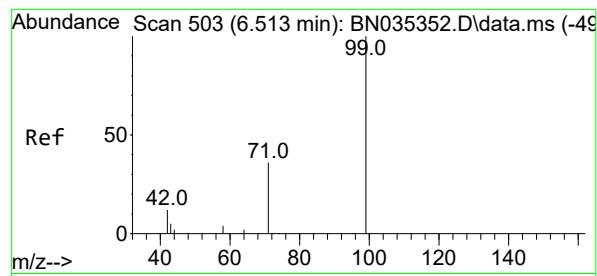


#4
2-Fluorophenol
Concen: 0.219 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



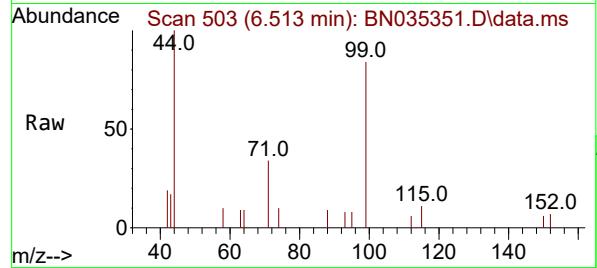
Tgt Ion:112 Resp: 1159
Ion Ratio Lower Upper
112 100
64 51.2 39.8 59.8
63 27.9 21.0 31.6



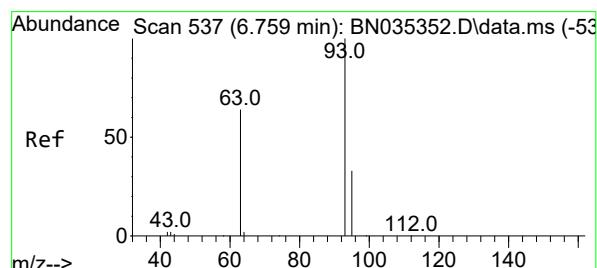
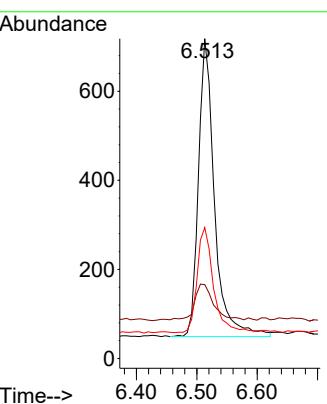
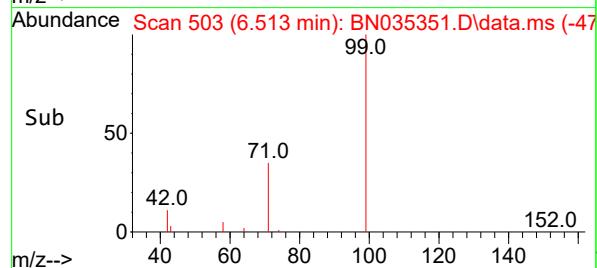


#5
Phenol-d6
Concen: 0.186 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

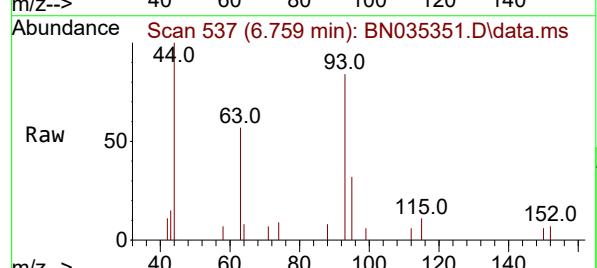
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



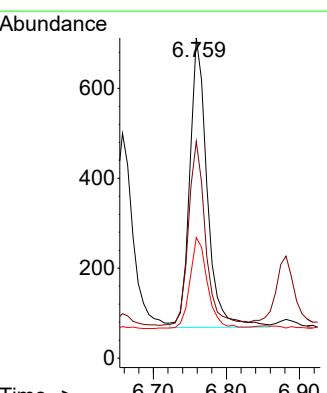
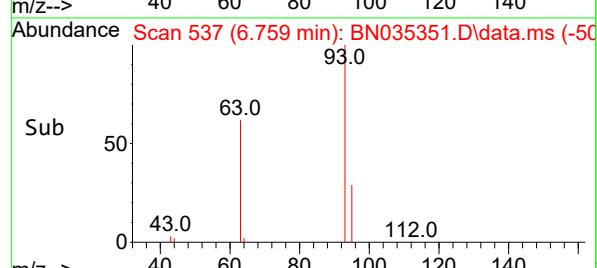
Tgt Ion: 99 Resp: 1236
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 35.8 29.3 43.9

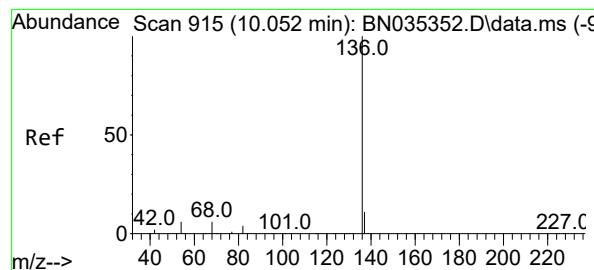


#6
bis(2-Chloroethyl)ether
Concen: 0.214 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



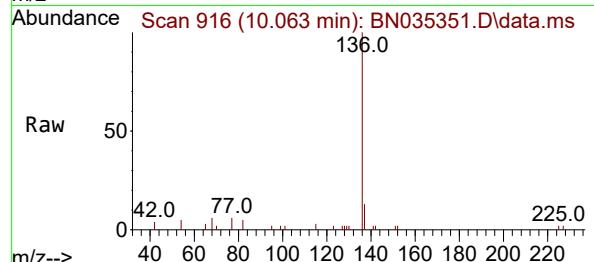
Tgt Ion: 93 Resp: 1064
Ion Ratio Lower Upper
93 100
63 62.2 50.4 75.6
95 31.6 25.7 38.5



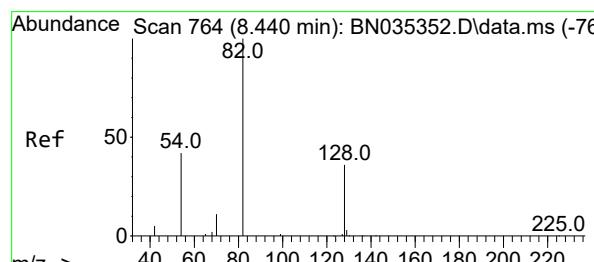
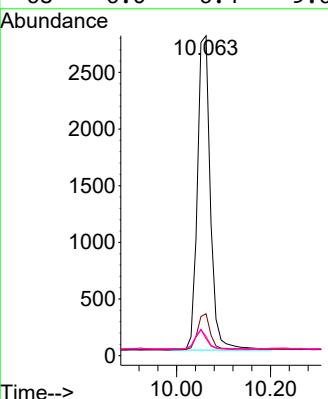
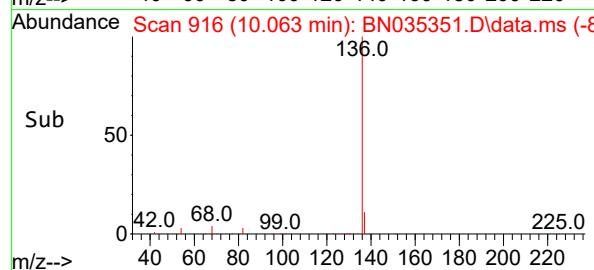


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.063 min Scan# 9
 Delta R.T. 0.011 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

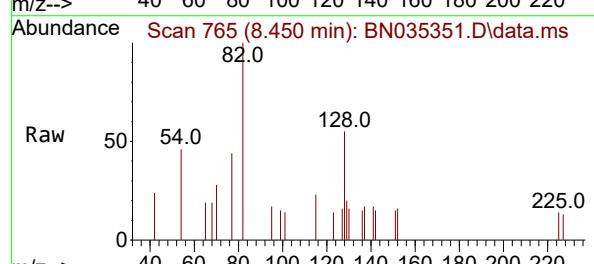
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2



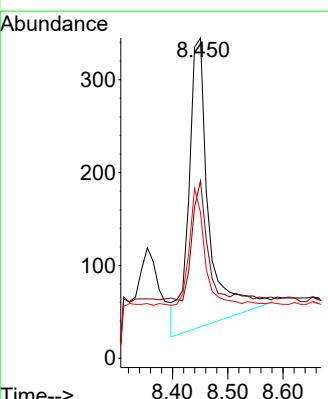
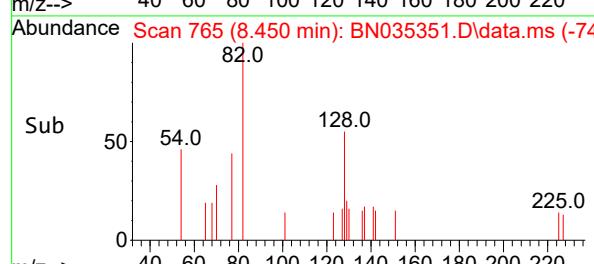
Tgt Ion:136 Resp: 5334
 Ion Ratio Lower Upper
 136 100
 137 13.1 10.2 15.2
 54 5.3 6.1 9.1#
 68 6.0 6.4 9.6#

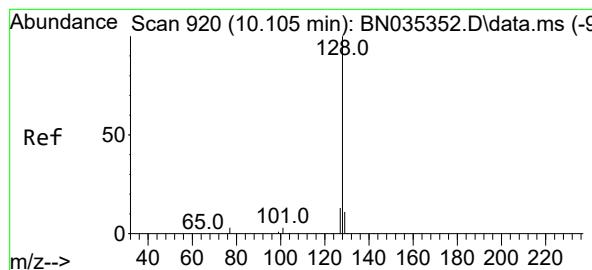


#8
 Nitrobenzene-d5
 Concen: 0.174 ng
 RT: 8.450 min Scan# 765
 Delta R.T. 0.011 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10



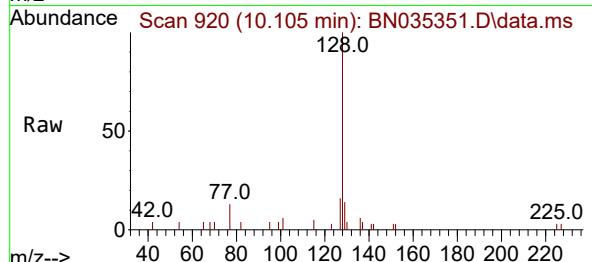
Tgt Ion: 82 Resp: 806
 Ion Ratio Lower Upper
 82 100
 128 55.4 33.4 50.0#
 54 45.5 36.7 55.1



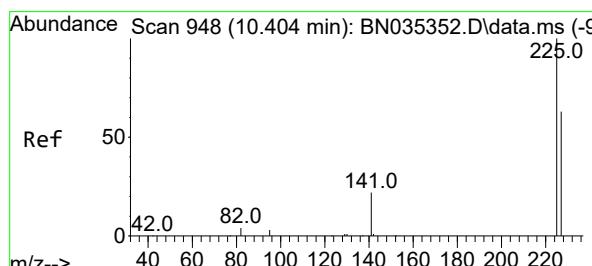
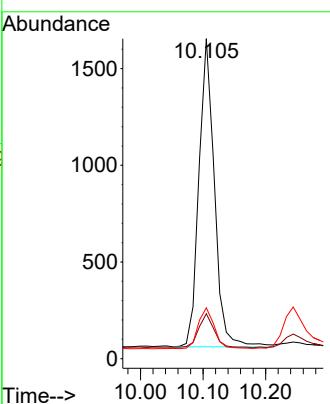
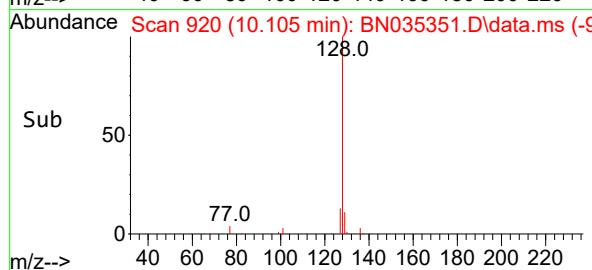


#9
 Naphthalene
 Concen: 0.197 ng
 RT: 10.105 min Scan# 9
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

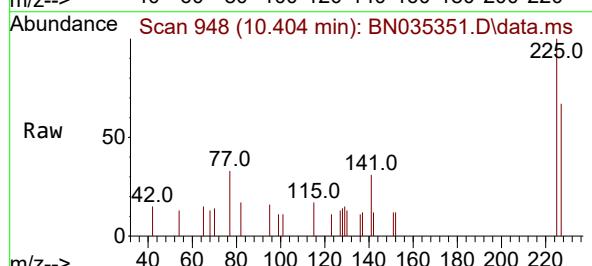
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2



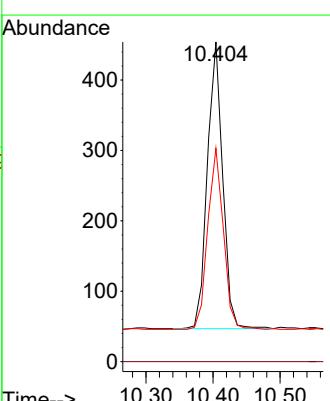
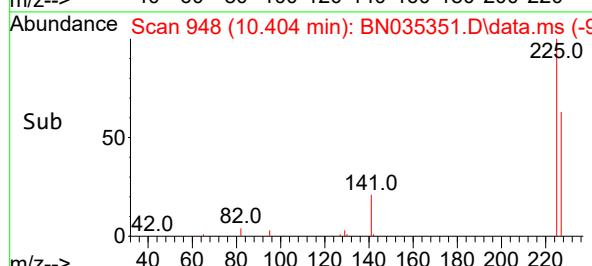
Tgt Ion:128 Resp: 2744
 Ion Ratio Lower Upper
 128 100
 129 14.0 9.8 14.6
 127 15.9 11.4 17.2

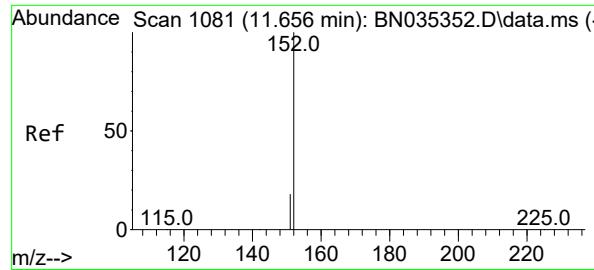


#10
 Hexachlorobutadiene
 Concen: 0.158 ng
 RT: 10.404 min Scan# 948
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

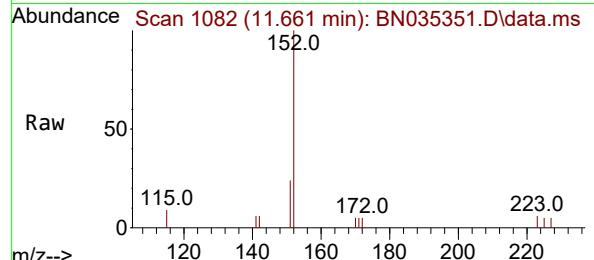


Tgt Ion:225 Resp: 646
 Ion Ratio Lower Upper
 225 100
 223 0.0 0.0 0.0
 227 64.7 51.3 76.9

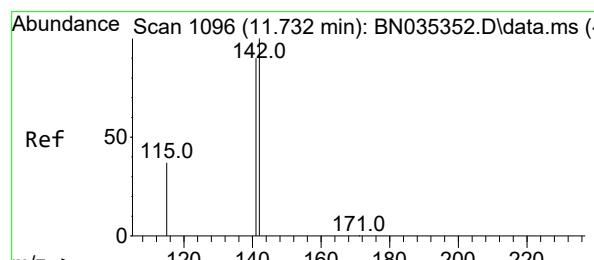
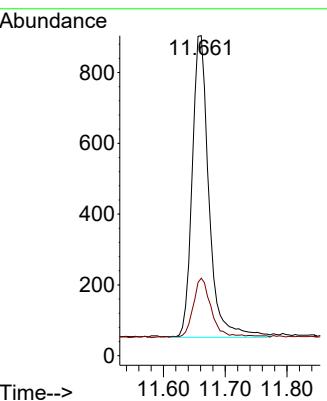
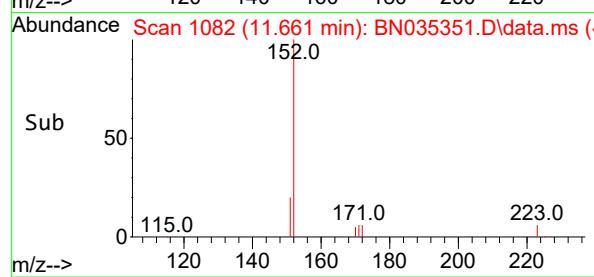




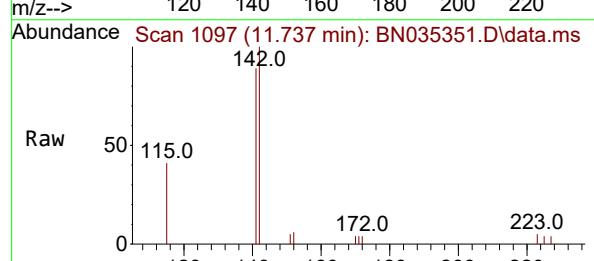
#11
2-Methylnaphthalene-d10
Concen: 0.169 ng
RT: 11.661 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.005 min
Lab File: BN035351.D ClientSampleId : SSTDICCO.2
Acq: 27 Nov 2024 16:10



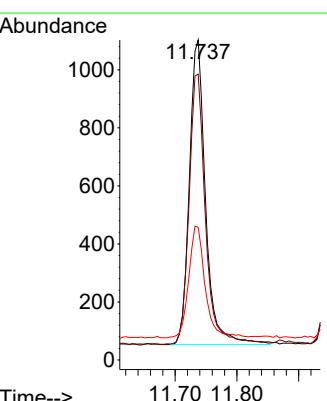
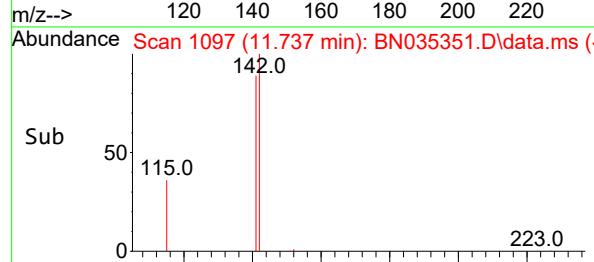
Tgt Ion:152 Resp: 1608
Ion Ratio Lower Upper
152 100
151 22.3 16.6 25.0

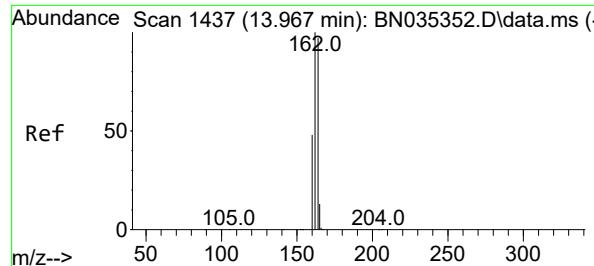


#12
2-Methylnaphthalene
Concen: 0.186 ng
RT: 11.737 min Scan# 1097
Delta R.T. 0.005 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



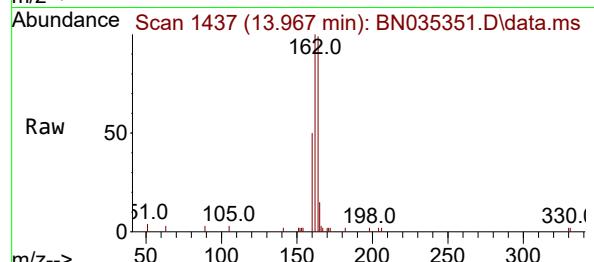
Tgt Ion:142 Resp: 1910
Ion Ratio Lower Upper
142 100
141 89.3 72.2 108.4
115 41.4 31.4 47.0





#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument : BNA_N
 ClientSampleId : SSTDICCO.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

Abundance

2500 13.967

2000

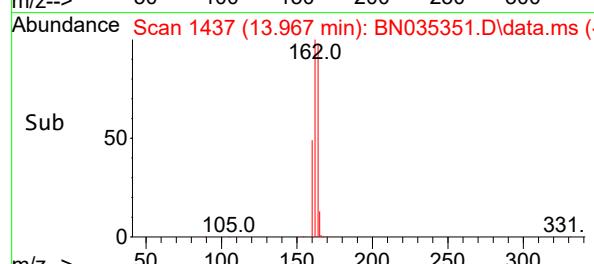
1500

1000

500

0

Time-->



#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

Abundance

250 15.475

200

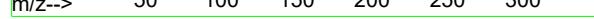
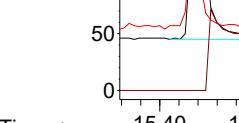
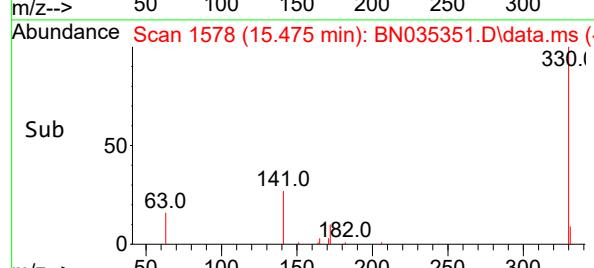
150

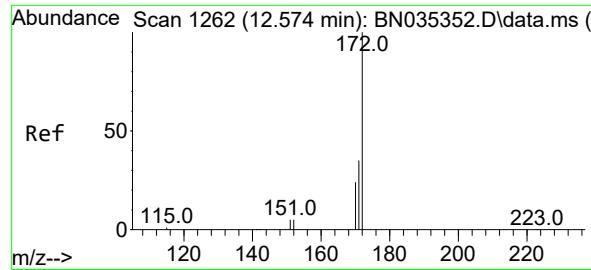
100

50

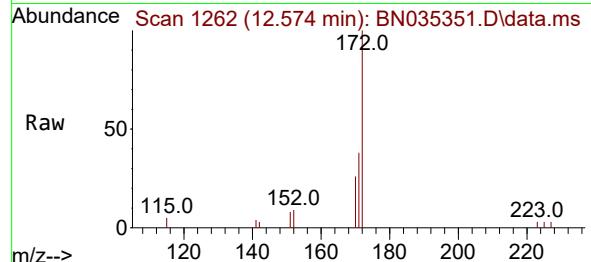
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Time-->

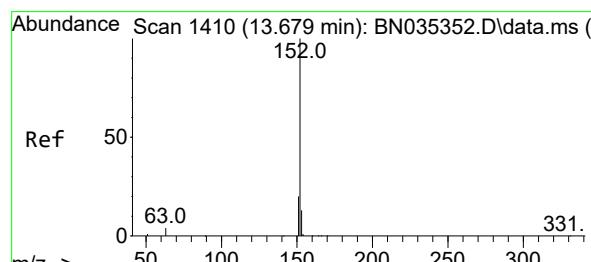
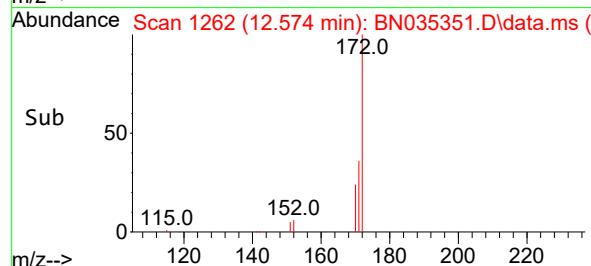
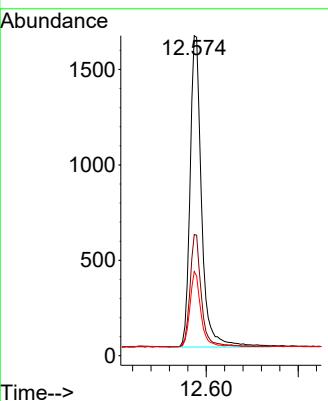




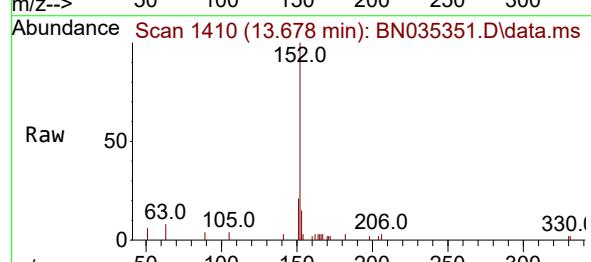
#15
2-Fluorobiphenyl
Concen: 0.184 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035351.D
ClientSampleId : SSTDICCO.2
Acq: 27 Nov 2024 16:10



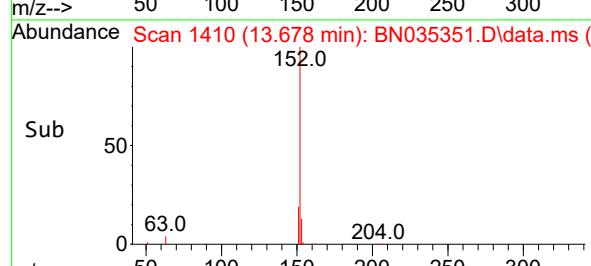
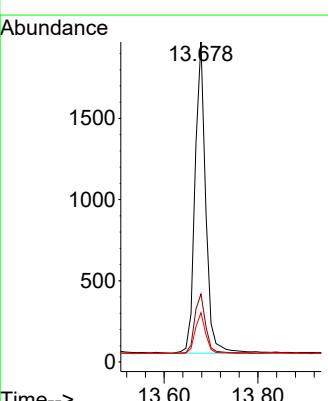
Tgt Ion:172 Resp: 2838
Ion Ratio Lower Upper
172 100
171 37.9 29.0 43.4
170 26.3 19.8 29.8

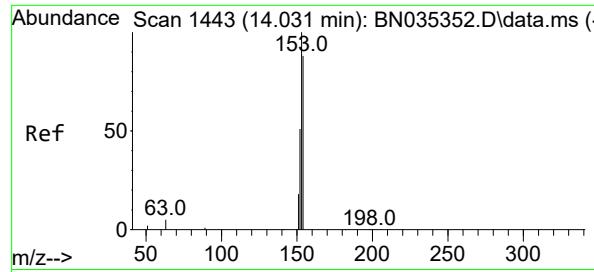


#16
Acenaphthylene
Concen: 0.187 ng
RT: 13.678 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



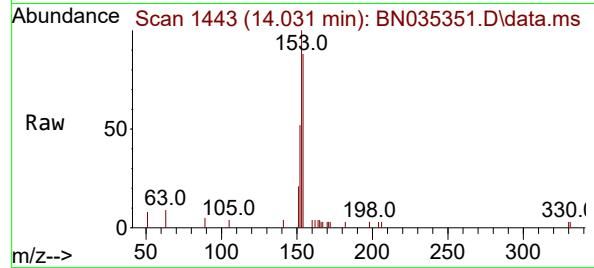
Tgt Ion:152 Resp: 3047
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 12.9 10.4 15.6



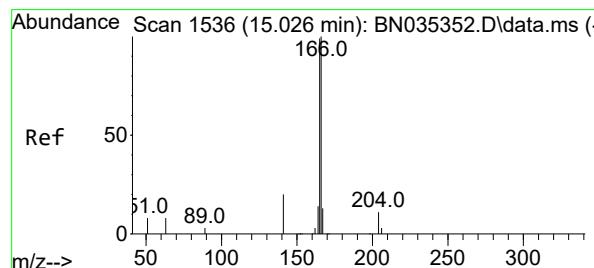
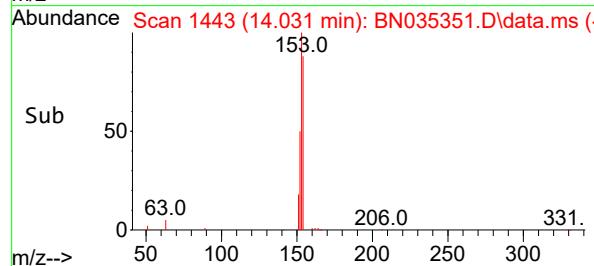
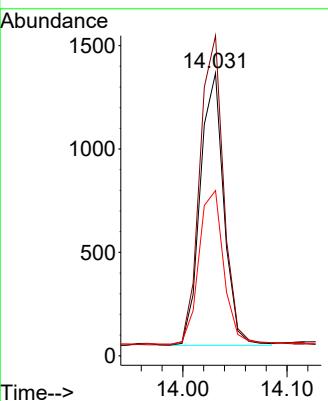


#17
Acenaphthene
Concen: 0.194 ng
RT: 14.031 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

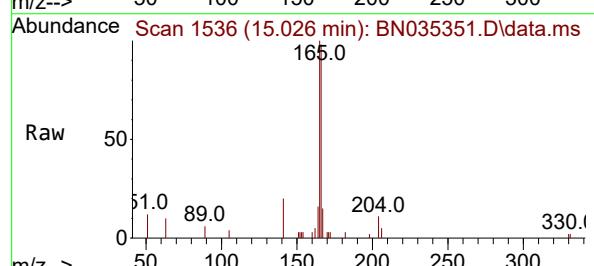
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



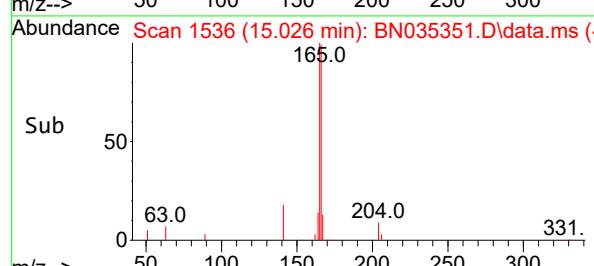
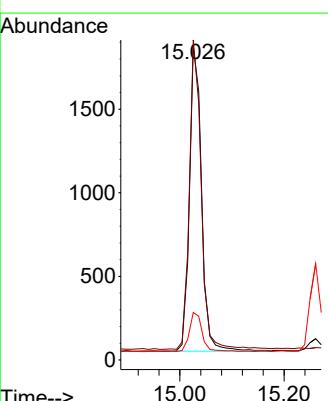
Tgt Ion:154 Resp: 2064
Ion Ratio Lower Upper
154 100
153 115.2 92.6 139.0
152 60.7 49.0 73.6

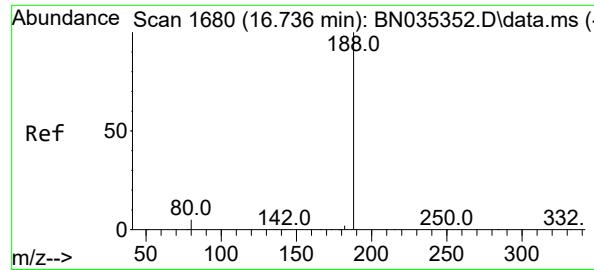


#18
Fluorene
Concen: 0.188 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



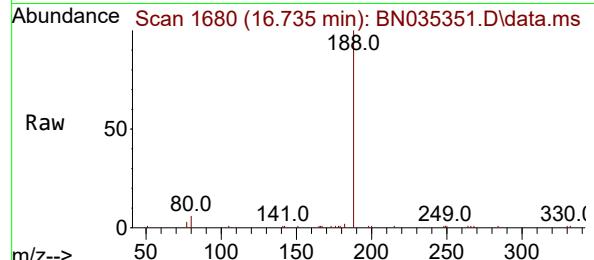
Tgt Ion:166 Resp: 2949
Ion Ratio Lower Upper
166 100
165 99.1 79.7 119.5
167 14.1 10.8 16.2



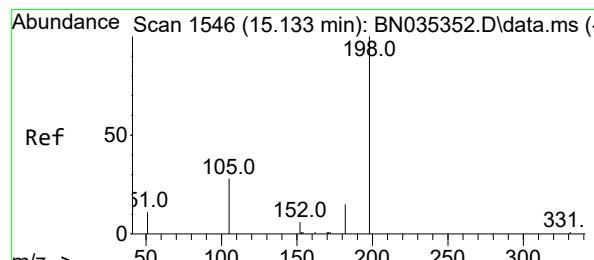
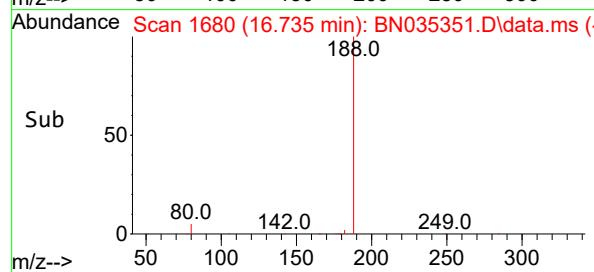
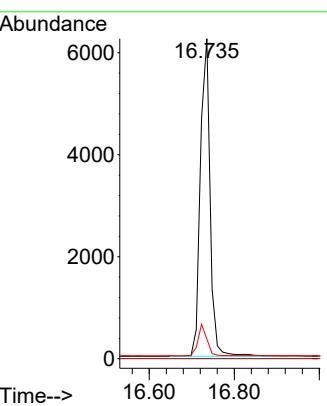


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.735 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

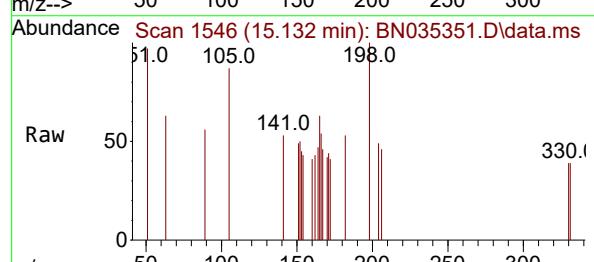
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



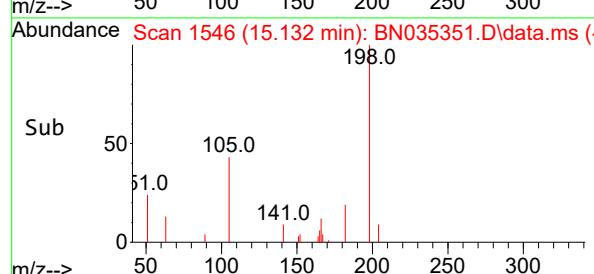
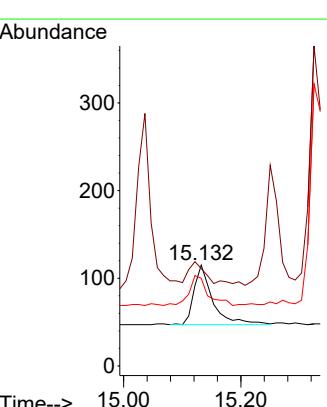
Tgt Ion:188 Resp: 9904
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 6.2 4.6 6.8

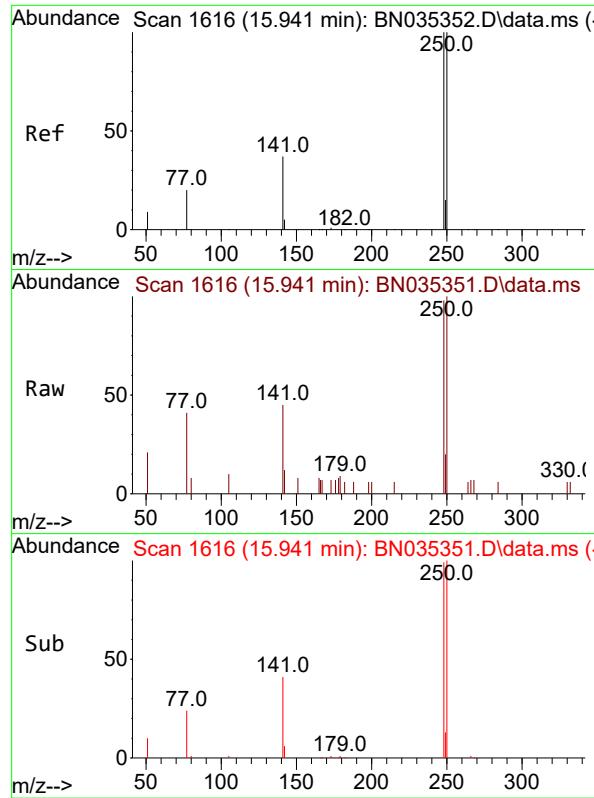


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.074 ng
 RT: 15.132 min Scan# 1546
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10



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#

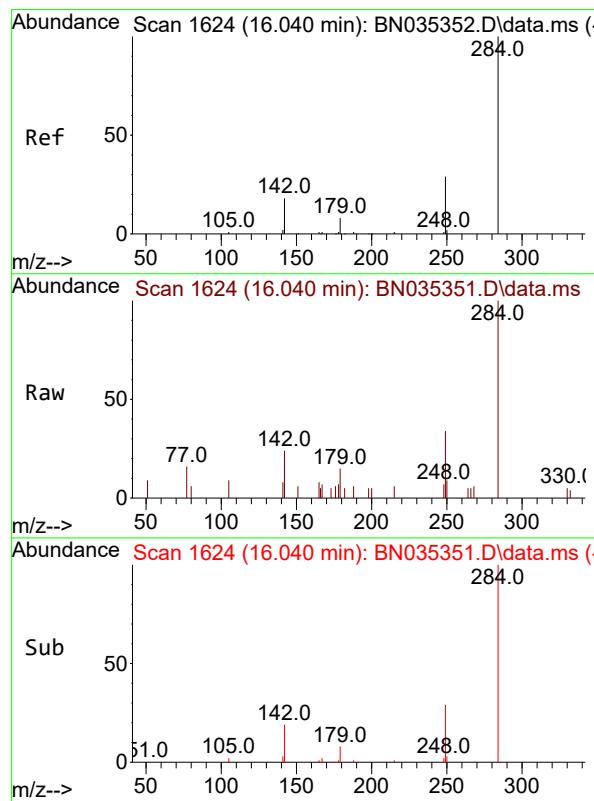
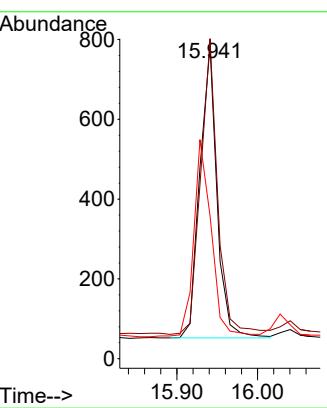




#21
 4-Bromophenyl-phenylether
 Concen: 0.171 ng
 RT: 15.941 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

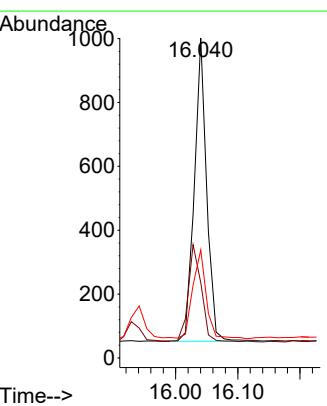
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

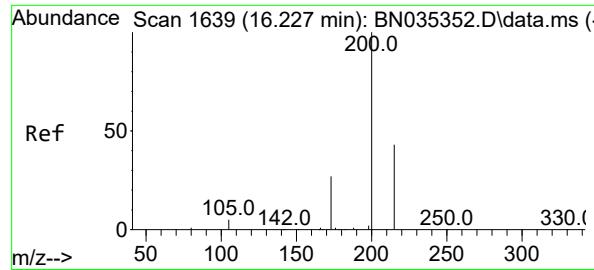
Tgt Ion:248 Resp: 1081
 Ion Ratio Lower Upper
 248 100
 250 102.3 80.6 120.8
 141 45.7 31.5 47.3



#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

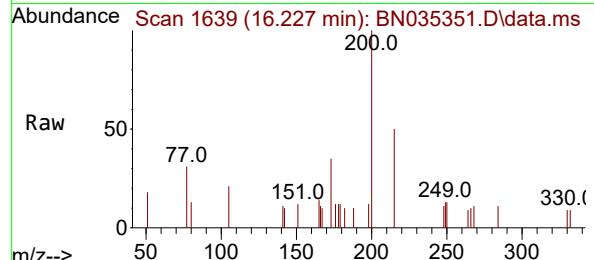
Tgt Ion:284 Resp: 1318
 Ion Ratio Lower Upper
 284 100
 142 34.2 26.7 40.1
 249 32.0 24.6 36.8



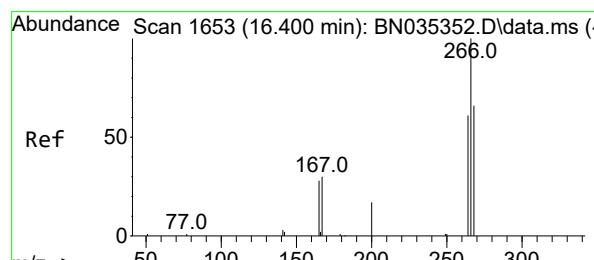
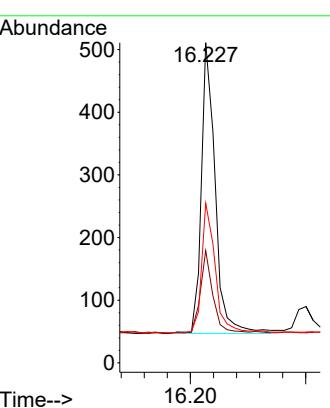
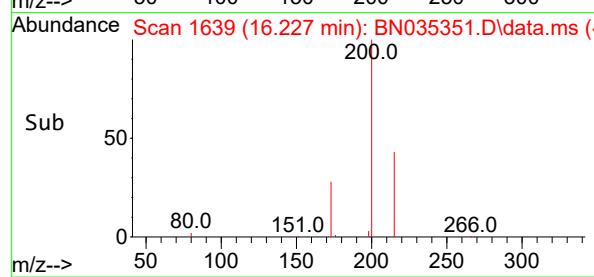


#23
Atrazine
Concen: 0.136 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

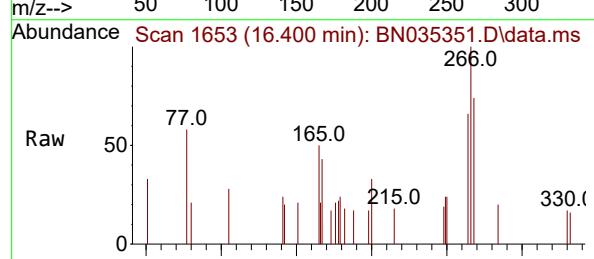
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



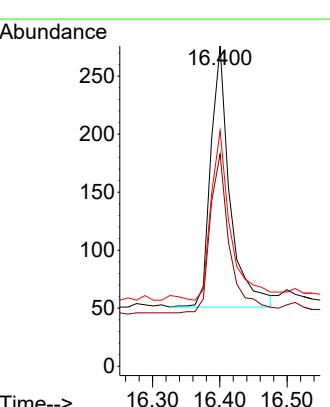
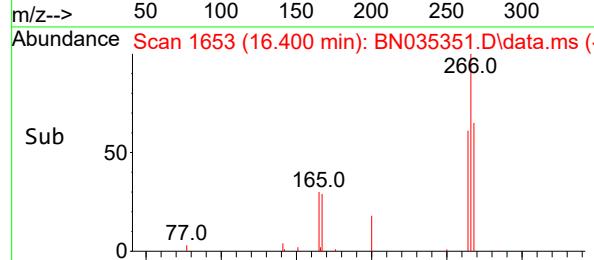
Tgt Ion:200 Resp: 770
Ion Ratio Lower Upper
200 100
173 35.0 24.1 36.1
215 49.9 36.9 55.3

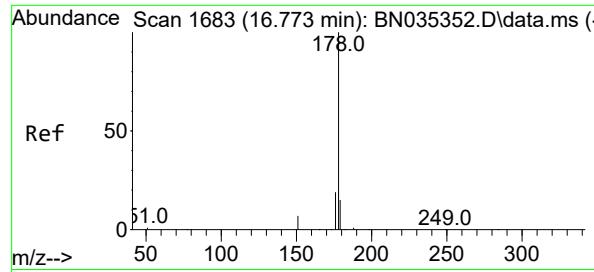


#24
Pentachlorophenol
Concen: 0.145 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



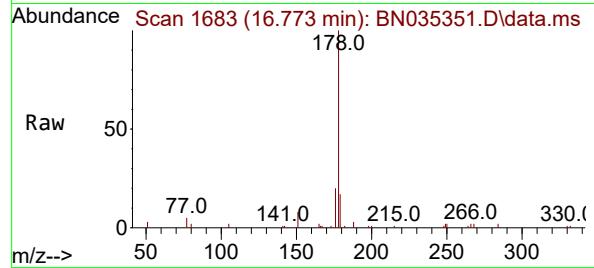
Tgt Ion:266 Resp: 445
Ion Ratio Lower Upper
266 100
264 62.7 42.3 63.5
268 67.2 43.3 64.9#



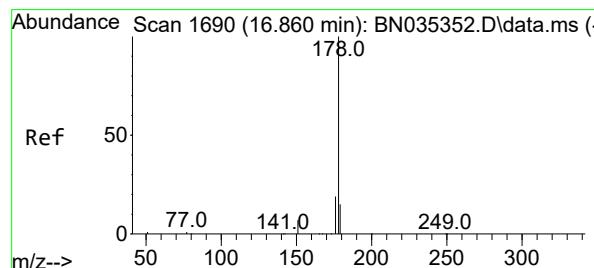
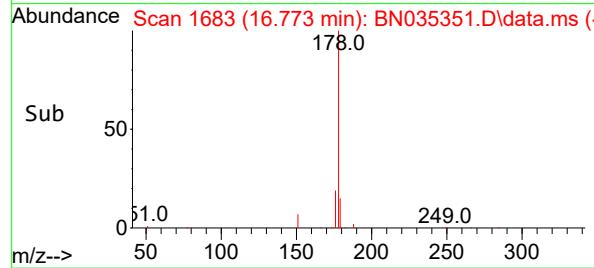
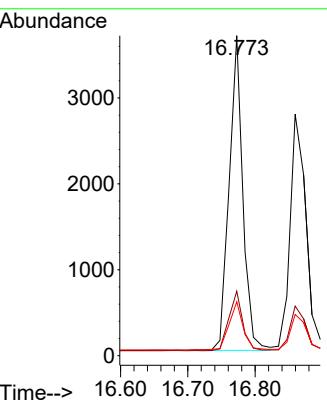


#25
Phenanthrene
Concen: 0.199 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10

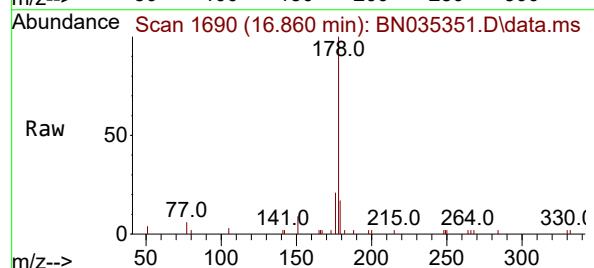
Instrument : BNA_N
ClientSampleId : SSTDICCO.2



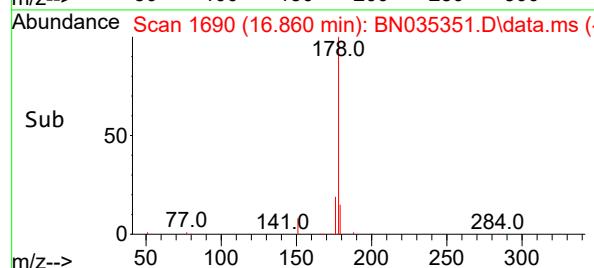
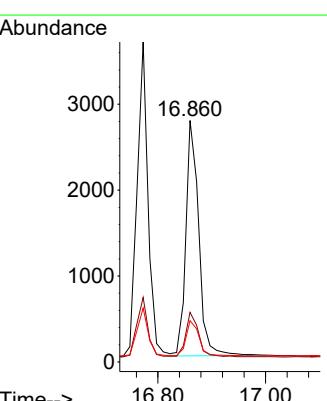
Tgt Ion:178 Resp: 5182
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.9 12.3 18.5

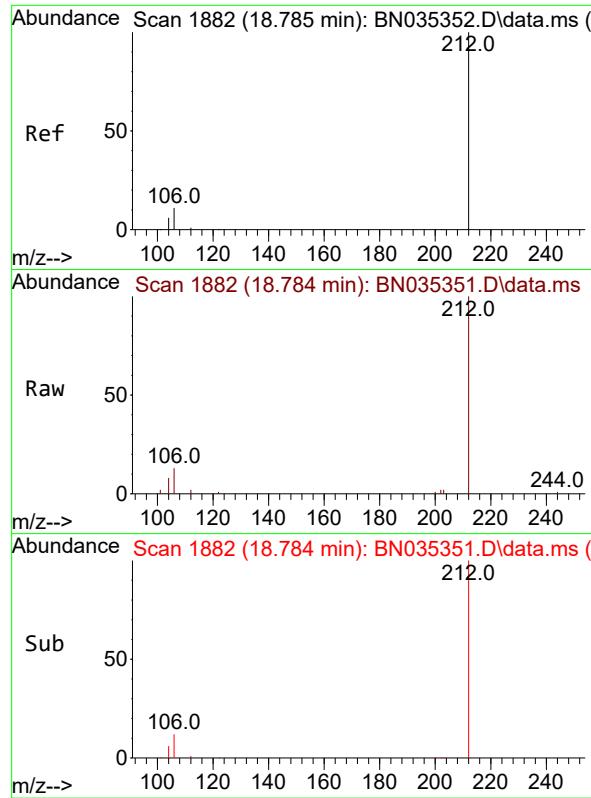


#26
Anthracene
Concen: 0.191 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035351.D
Acq: 27 Nov 2024 16:10



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

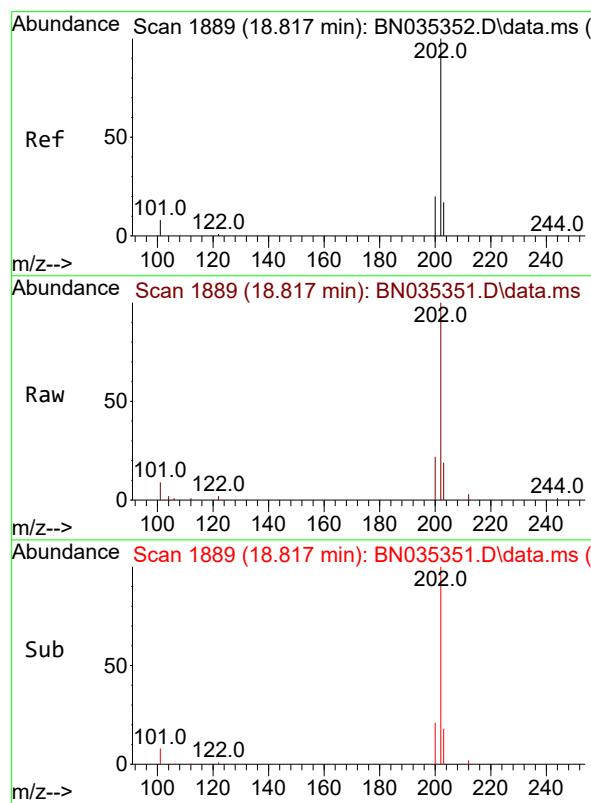
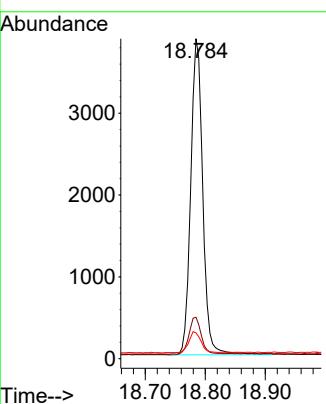




#27
 Fluoranthene-d10
 Concen: 0.177 ng
 RT: 18.784 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

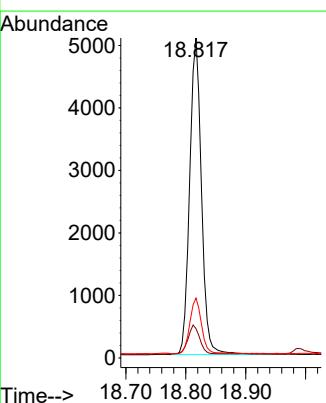
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

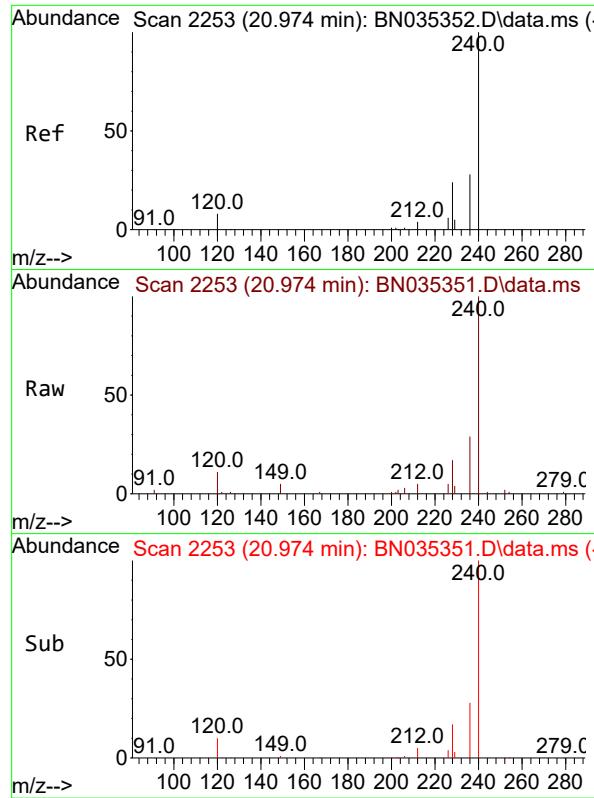
Tgt Ion:212 Resp: 5379
 Ion Ratio Lower Upper
 212 100
 106 11.8 9.2 13.8
 104 6.9 5.3 7.9



#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

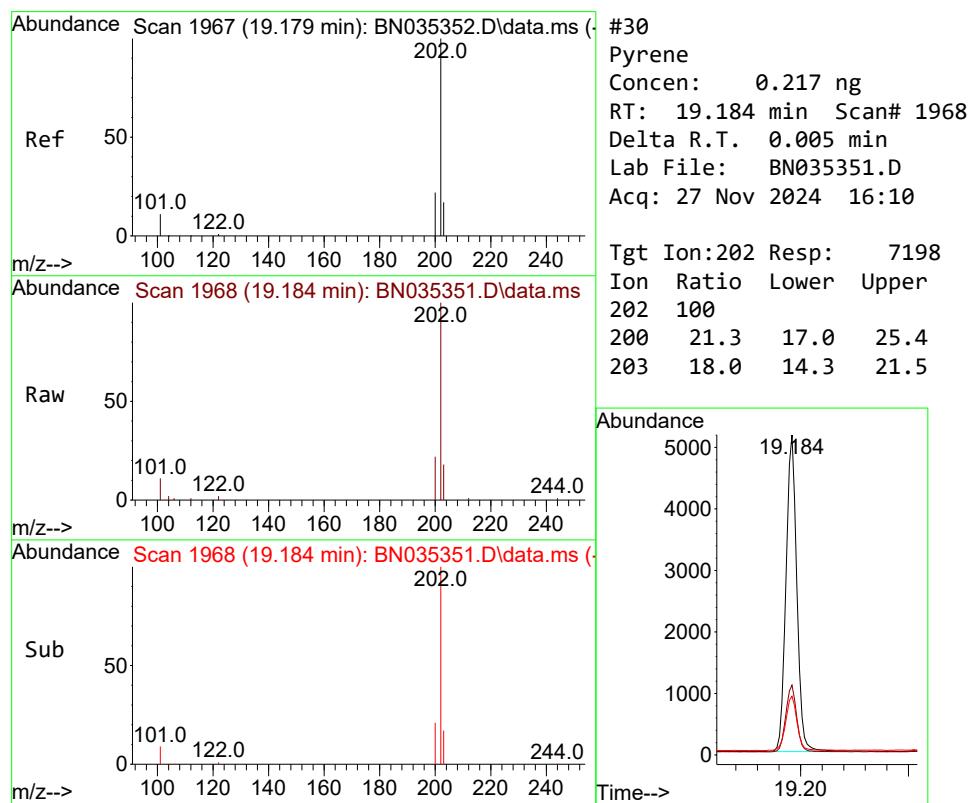
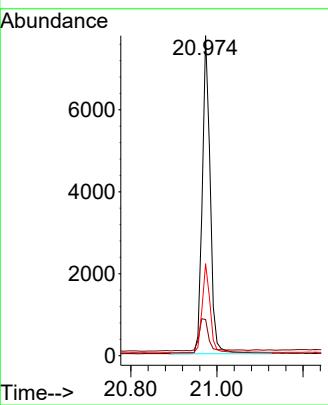




#29
 Chrysene-d₁₂
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

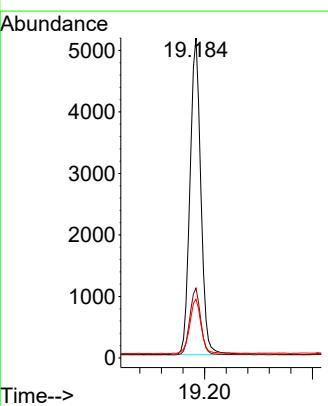
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

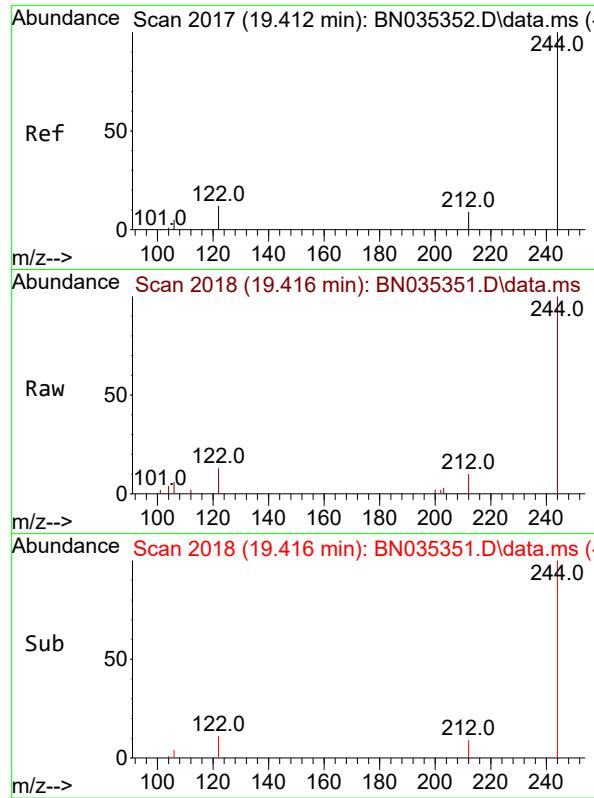
Tgt Ion:240 Resp: 9963
 Ion Ratio Lower Upper
 240 100
 120 11.3 7.9 11.9
 236 28.8 22.9 34.3



#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

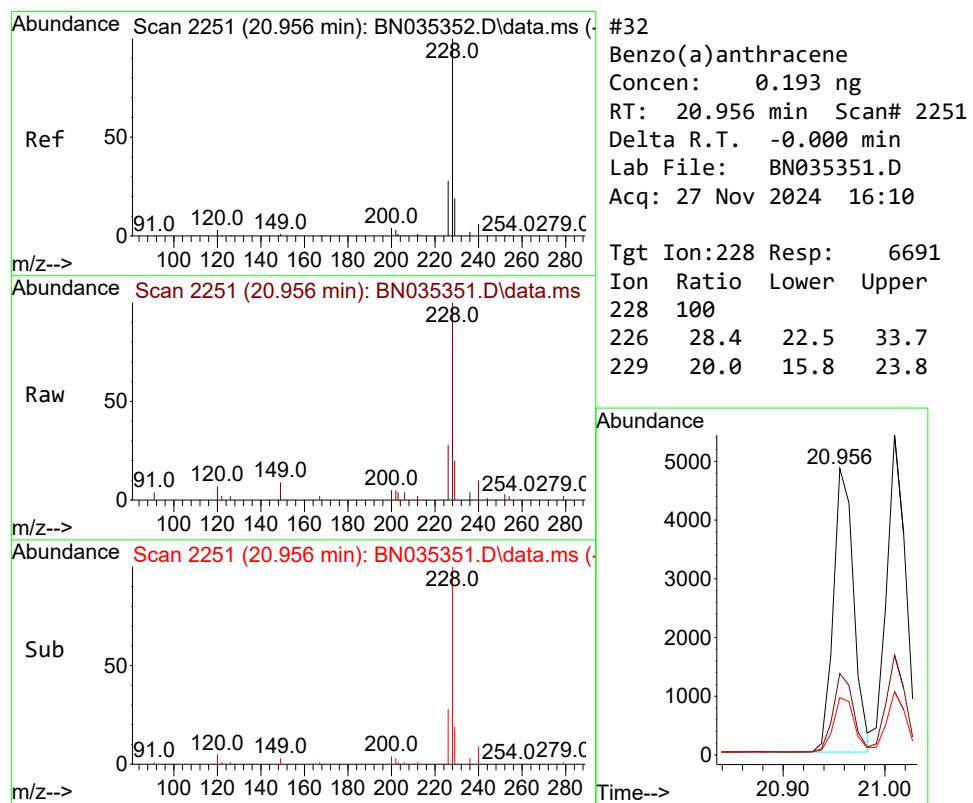
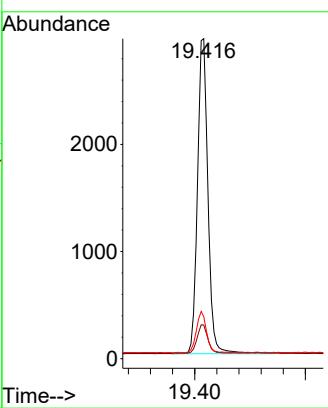




#31
 Terphenyl-d14
 Concen: 0.185 ng
 RT: 19.416 min Scan# 2
 Delta R.T. 0.005 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

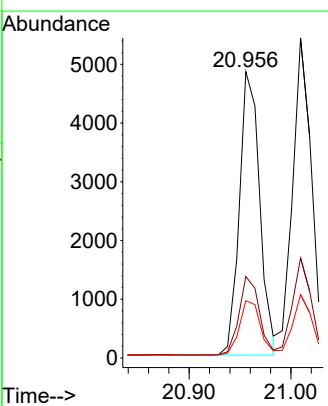
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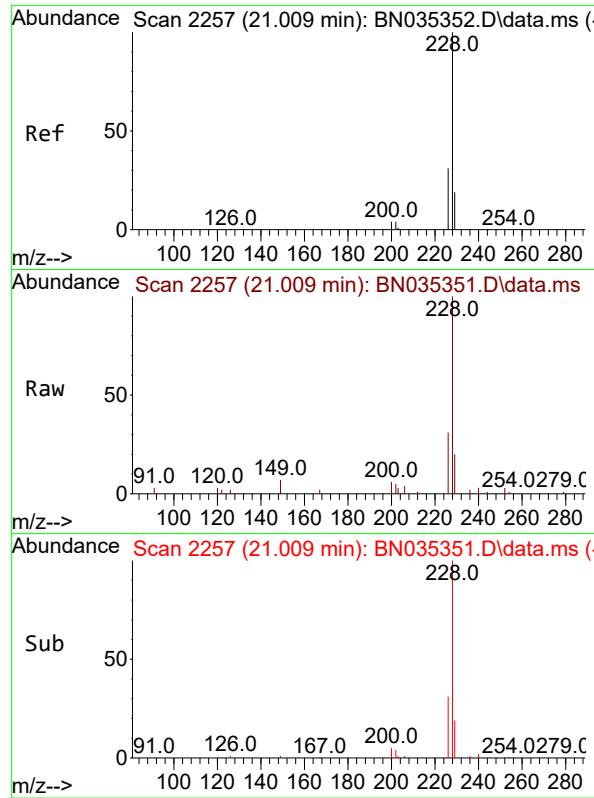
Tgt Ion:244 Resp: 3871
 Ion Ratio Lower Upper
 244 100
 212 10.5 8.1 12.1
 122 13.1 10.3 15.5



#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

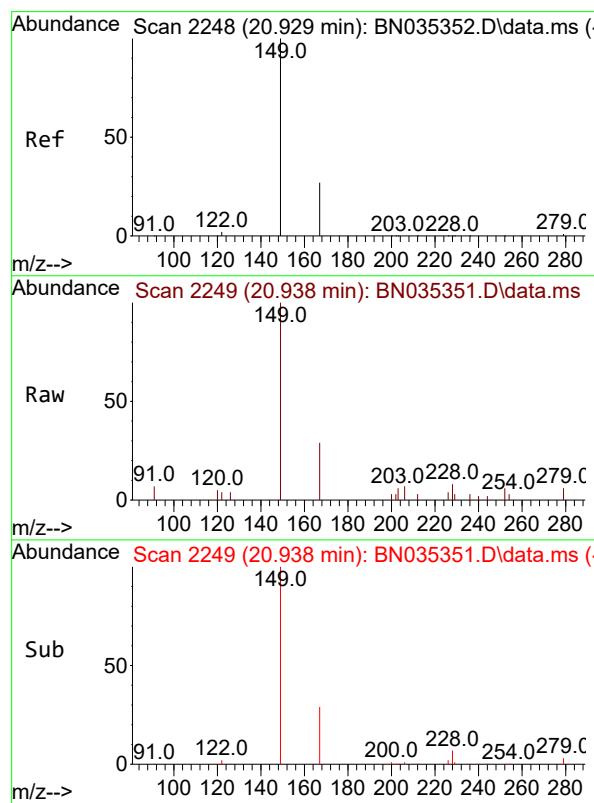
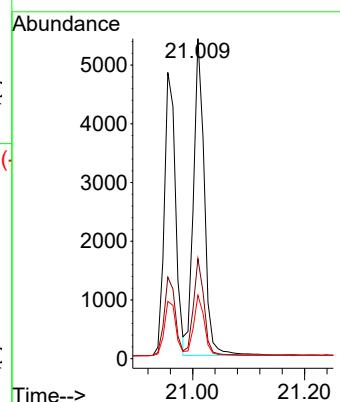




#33
 Chrysene
 Concen: 0.211 ng
 RT: 21.009 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

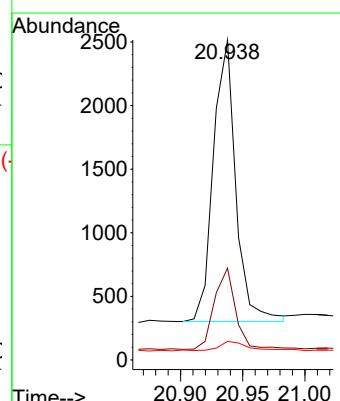
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

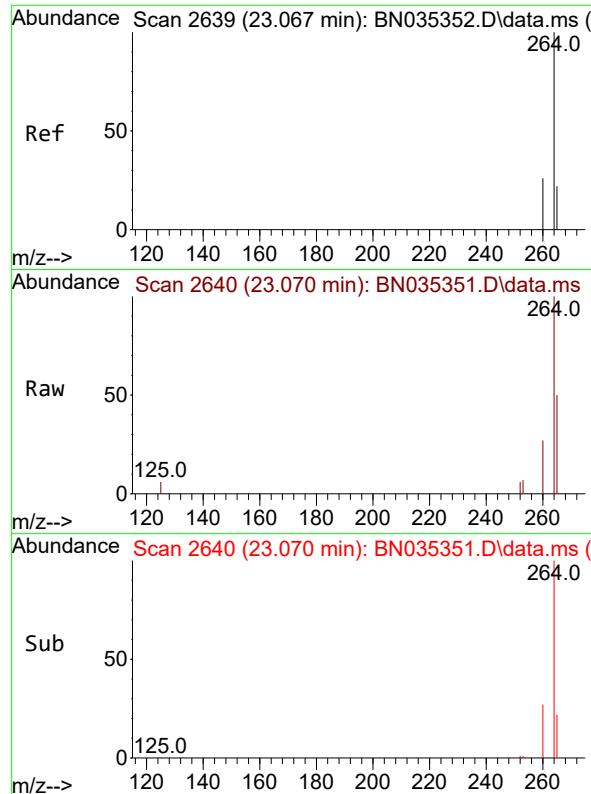
Tgt Ion:228 Resp: 7234
 Ion Ratio Lower Upper
 228 100
 226 31.2 24.6 37.0
 229 19.8 15.9 23.9



#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#

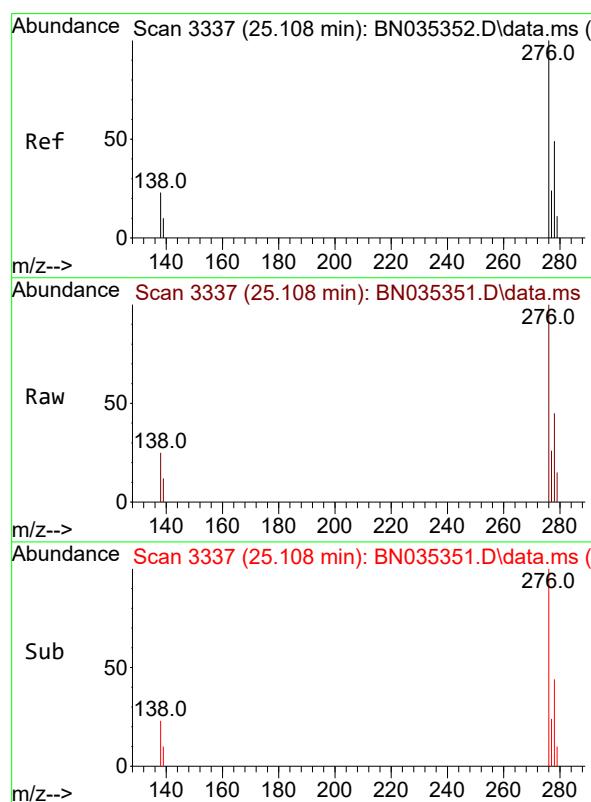
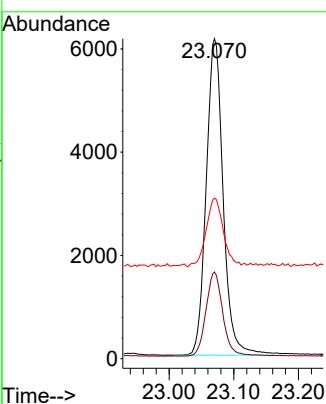




#35
 Perylene-d₁₂
 Concen: 0.400 ng
 RT: 23.070 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

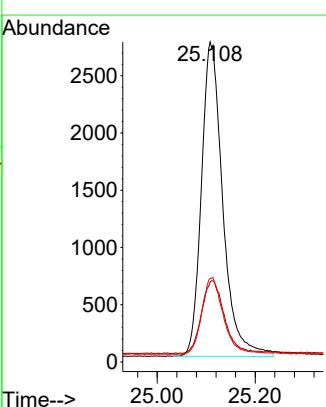
Instrument : BNA_N
 ClientSampleId : SSTDICCO.2

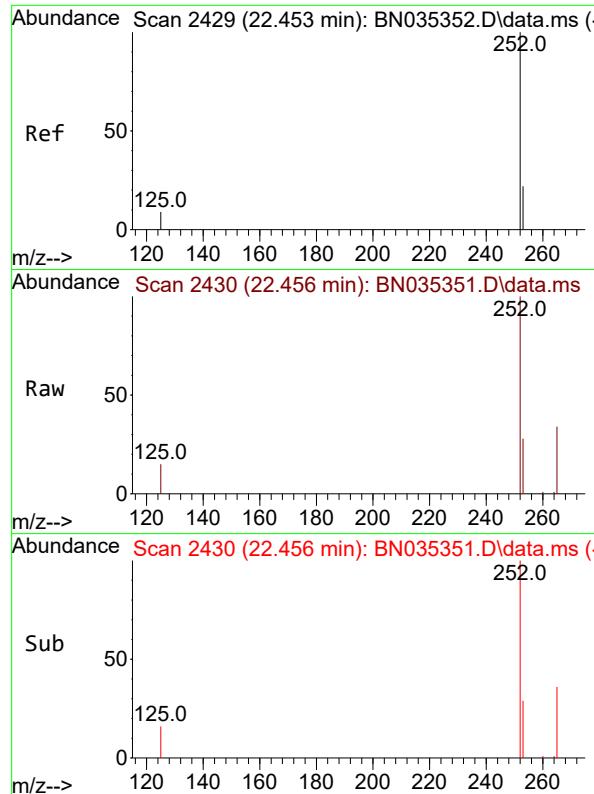
Tgt Ion:264 Resp: 11158
 Ion Ratio Lower Upper
 264 100
 260 27.1 21.4 32.2
 265 50.2 40.2 60.4



#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

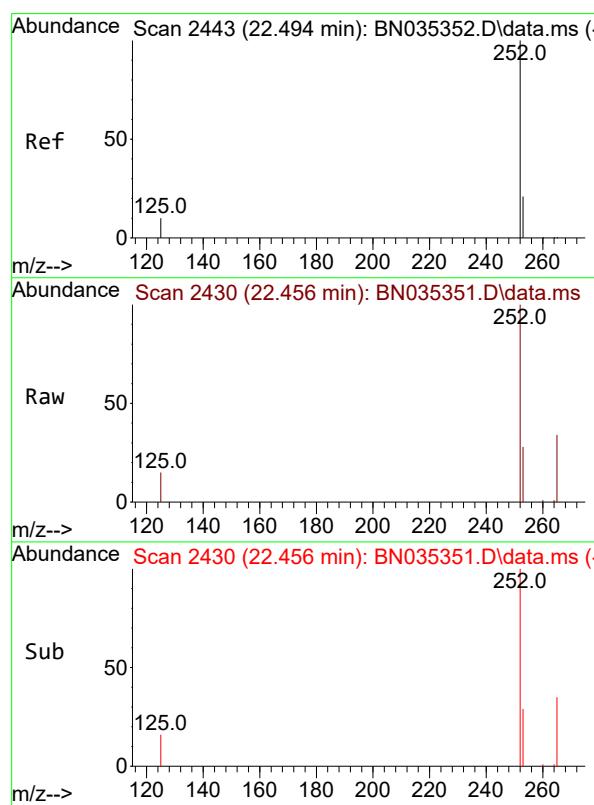
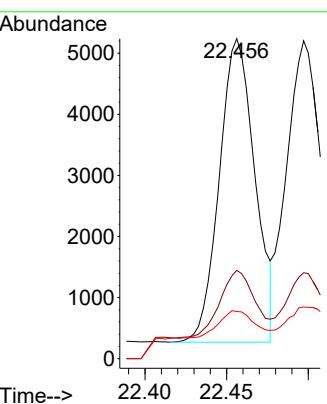




#37
 Benzo(b)fluoranthene
 Concen: 0.200 ng
 RT: 22.456 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

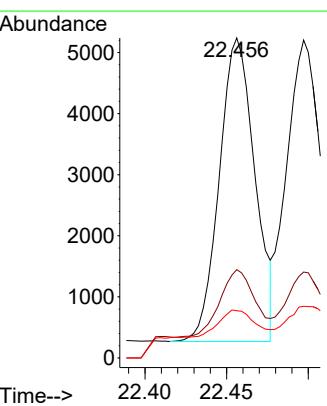
Instrument : BNA_N
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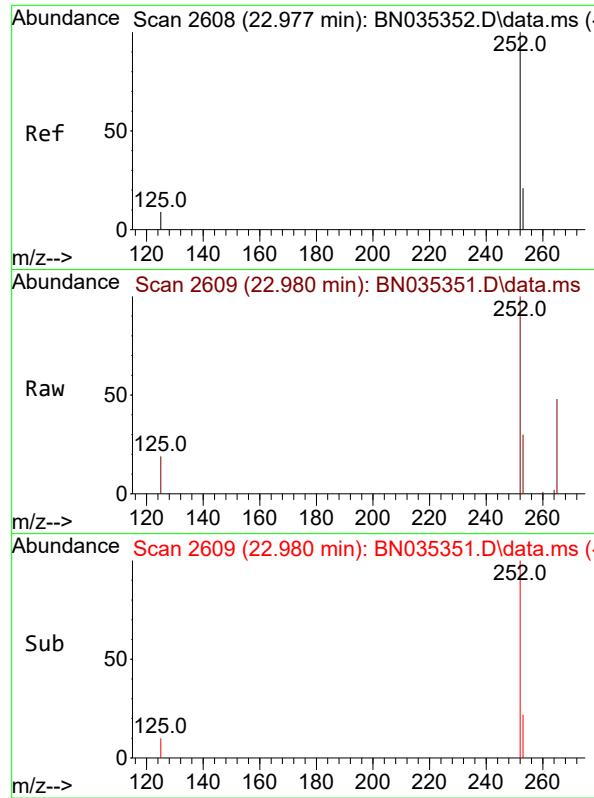
Tgt Ion:252 Resp: 7522
 Ion Ratio Lower Upper
 252 100
 253 27.6 19.6 29.4
 125 14.8 9.6 14.4#



#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

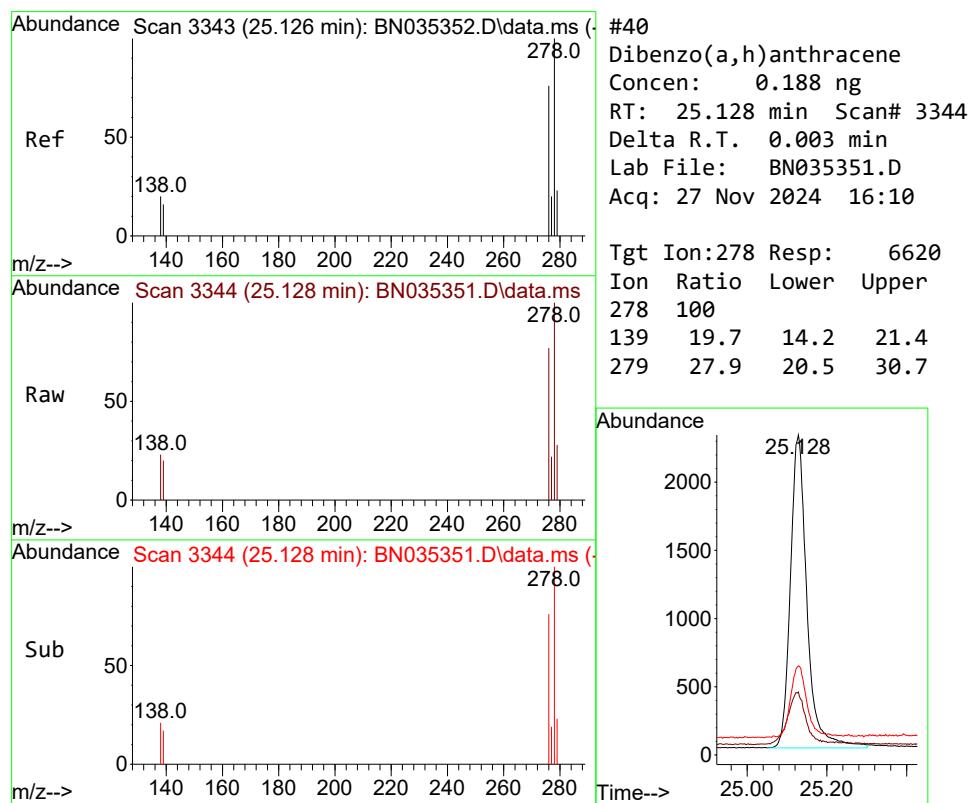
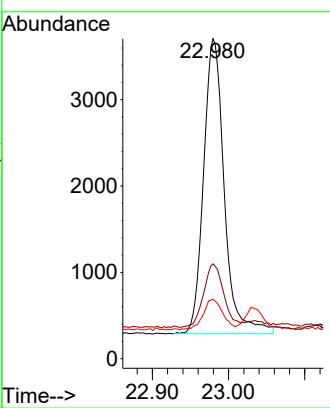




#39
 Benzo(a)pyrene
 Concen: 0.195 ng
 RT: 22.980 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

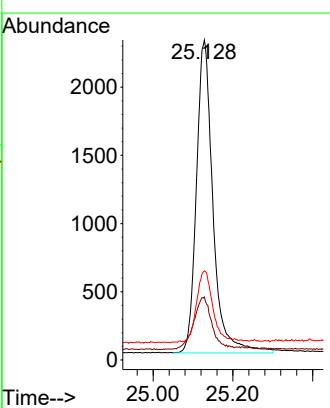
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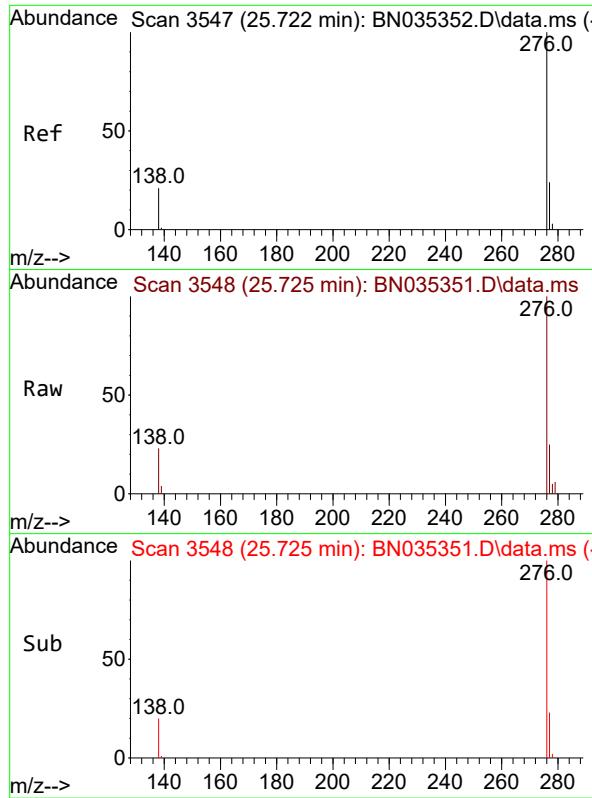
Tgt Ion:252 Resp: 6450
 Ion Ratio Lower Upper
 252 100
 253 29.7 20.2 30.4
 125 18.5 10.9 16.3#



#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

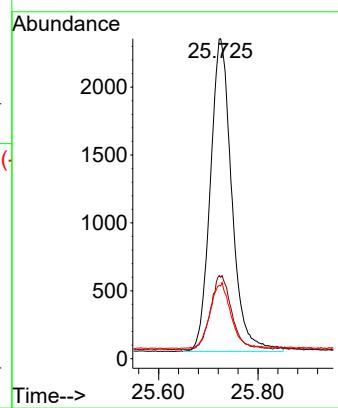




#41
 Benzo(g,h,i)perylene
 Concen: 0.184 ng
 RT: 25.725 min Scan# 3
 Delta R.T. 0.003 min
 Lab File: BN035351.D
 Acq: 27 Nov 2024 16:10

Instrument : BNA_N
 ClientSampleId : SSTDICCO.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



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

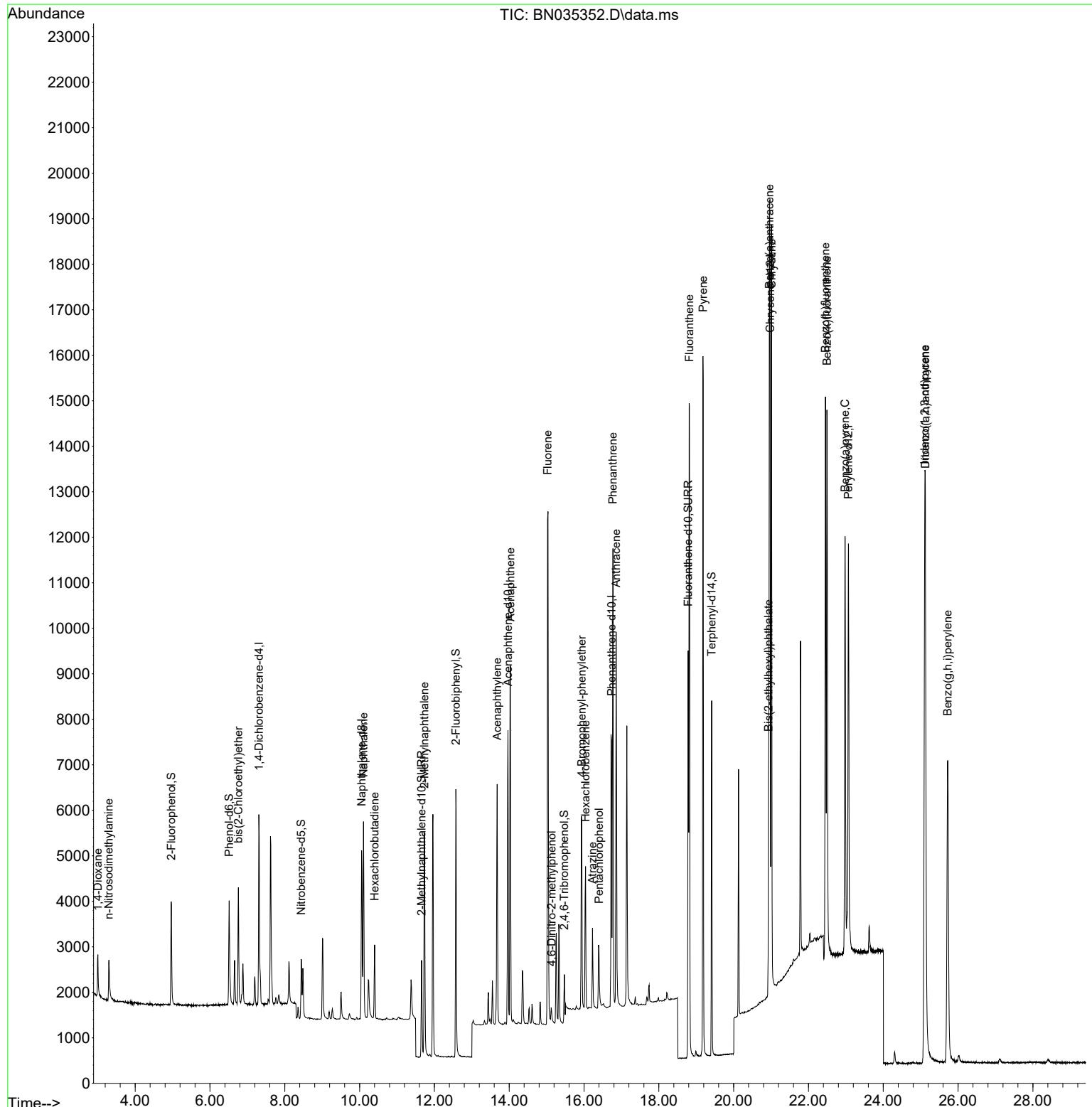
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2048	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3799	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	9490	0.400	ng	0.00
29) Chrysene-d12	20.974	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

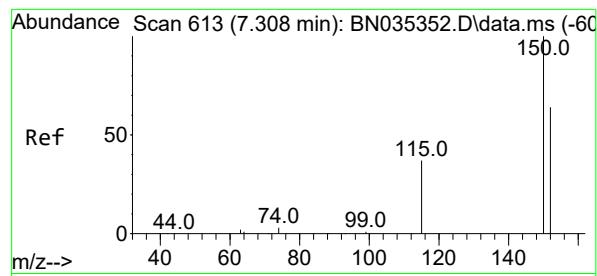
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

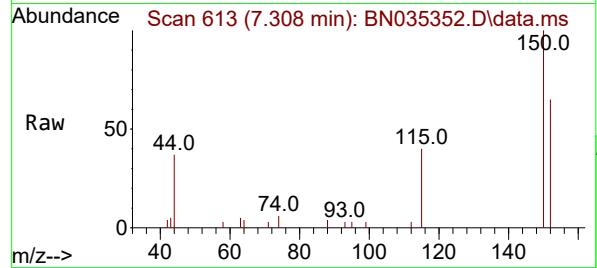
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 QLast Update : Wed Nov 27 22:48:24 2024
 Response via : Initial Calibration



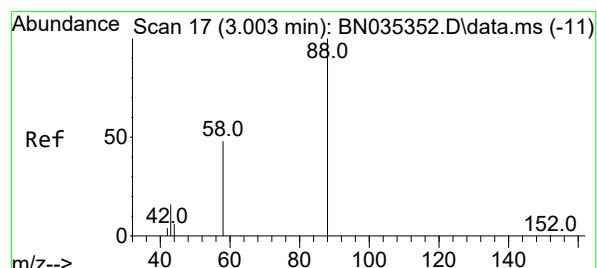
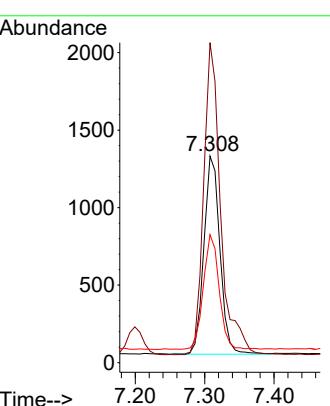
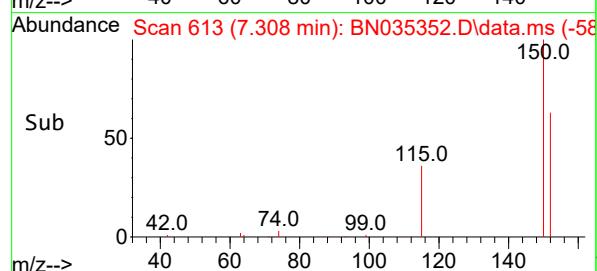


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

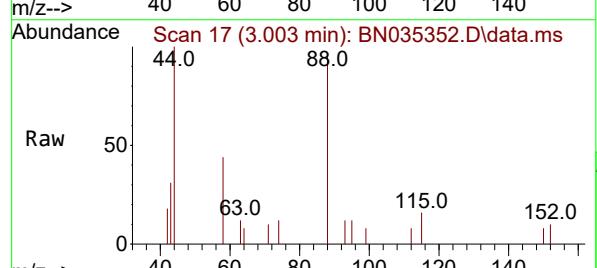
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



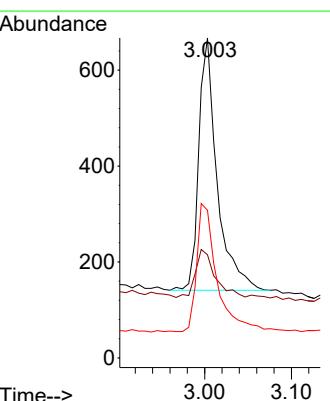
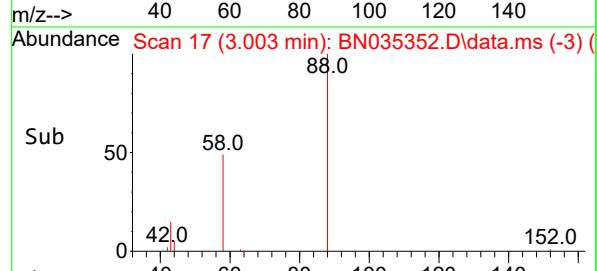
Tgt Ion:152 Resp: 2048
Ion Ratio Lower Upper
152 100
150 155.0 124.0 186.0
115 62.0 49.6 74.4

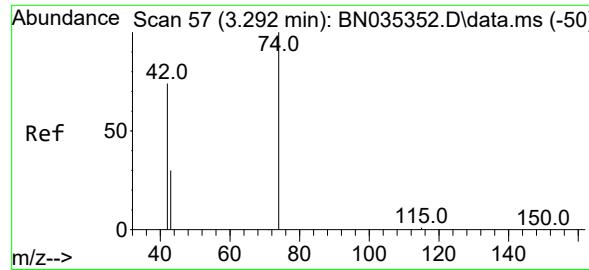


#2
1,4-Dioxane
Concen: 0.414 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



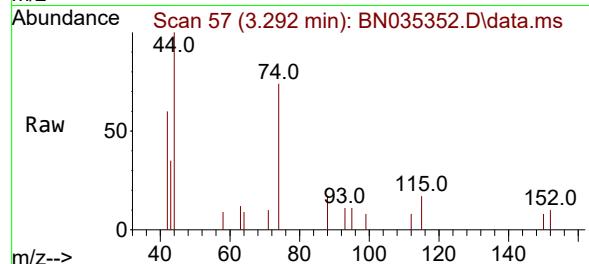
Tgt Ion: 88 Resp: 771
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 55.6 44.5 66.7



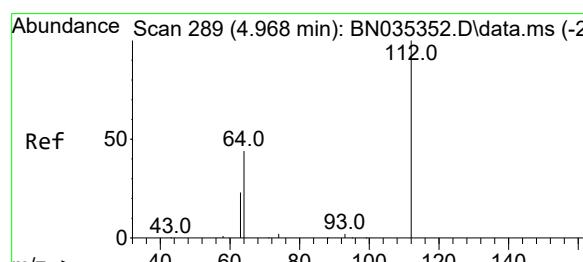
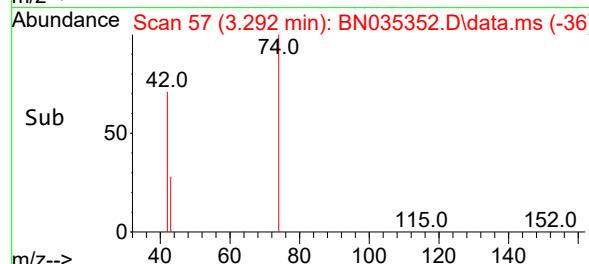
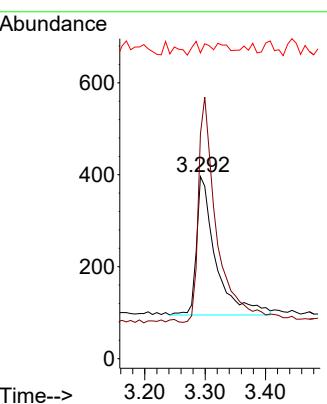


#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

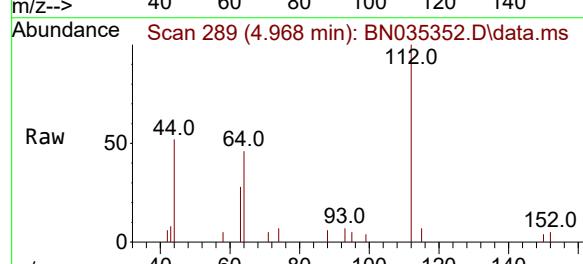
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



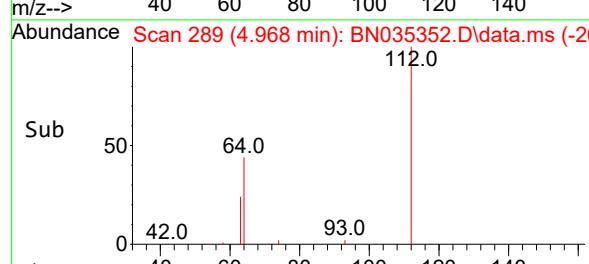
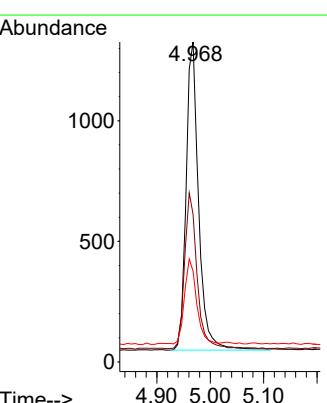
Tgt Ion: 42 Resp: 668
Ion Ratio Lower Upper
42 100
74 156.1 124.9 187.3
44 2.8 2.2 3.4

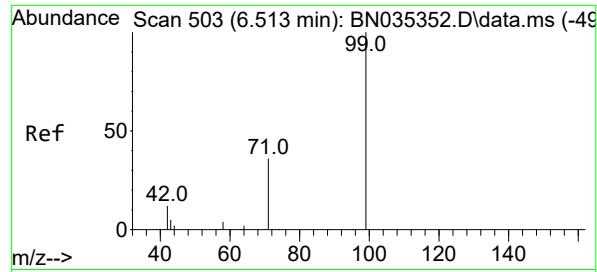


#4
2-Fluorophenol
Concen: 0.401 ng
RT: 4.968 min Scan# 289
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



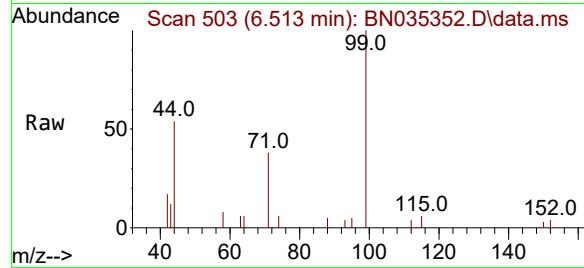
Tgt Ion: 112 Resp: 2085
Ion Ratio Lower Upper
112 100
64 49.8 39.8 59.8
63 26.3 21.0 31.6



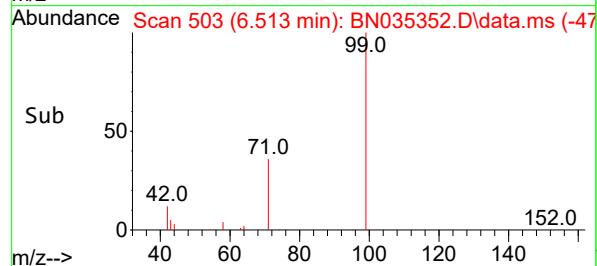
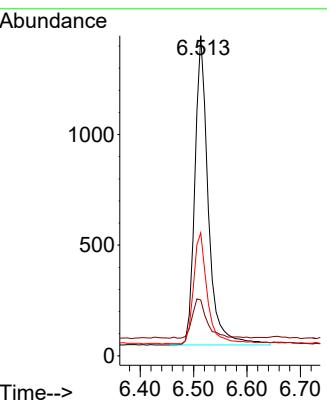


#5
 Phenol-d6
 Concen: 0.375 ng
 RT: 6.513 min Scan# 5
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

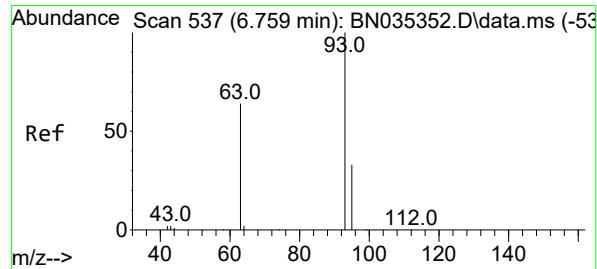
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4



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

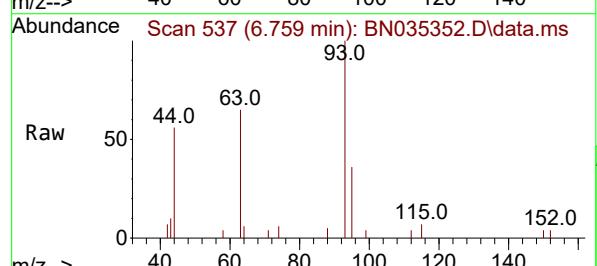
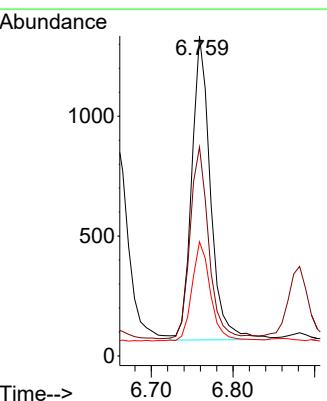


#6
 bis(2-Chloroethyl)ether
 Concen: 0.415 ng
 RT: 6.759 min Scan# 537
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

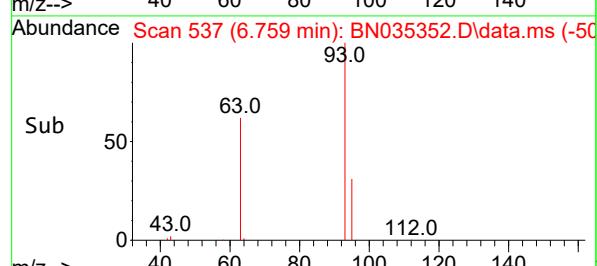


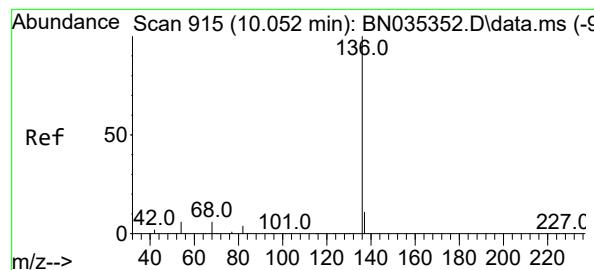
Tgt Ion: 93 Resp: 2032

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



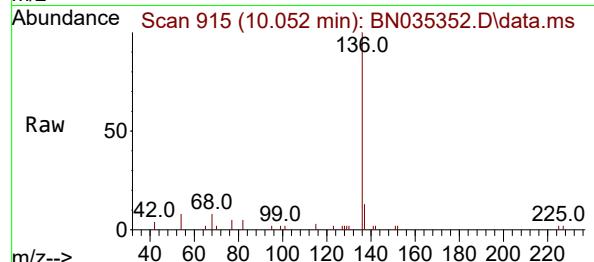
(-50)





#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

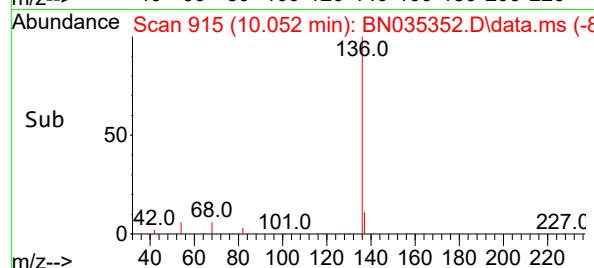
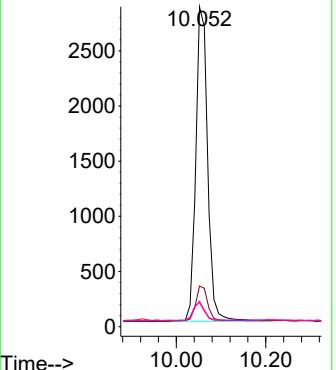


Tgt Ion:136 Resp: 5229

Ion Ratio Lower Upper

136	100
137	12.7
54	7.6
68	8.0
	10.2
	6.1
	6.4
	15.2
	9.1
	9.6

Abundance

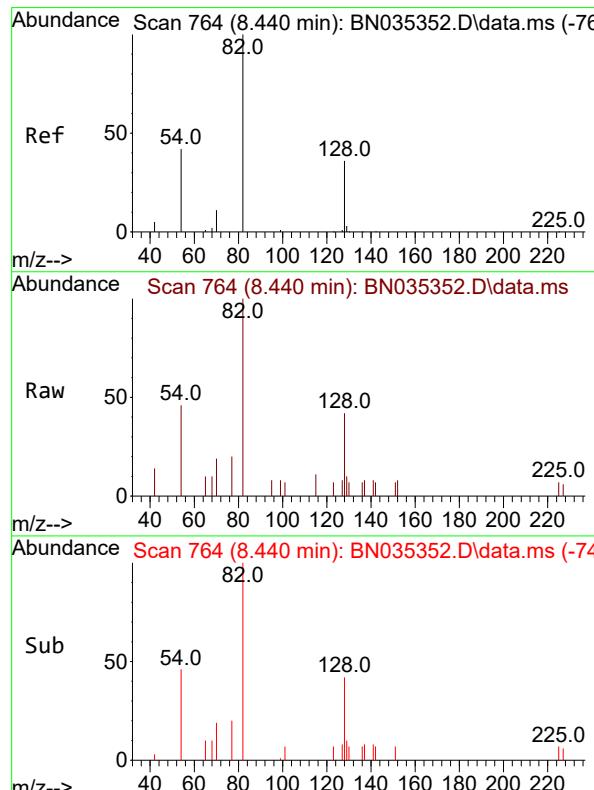
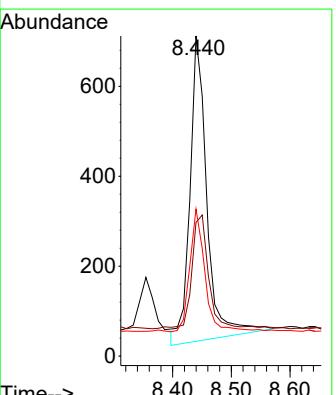


#8
 Nitrobenzene-d5
 Concen: 0.301 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Tgt Ion: 82 Resp: 1371

Ion Ratio Lower Upper

82	100
128	41.7
54	45.9
	33.4
	36.7
	50.0
	55.1

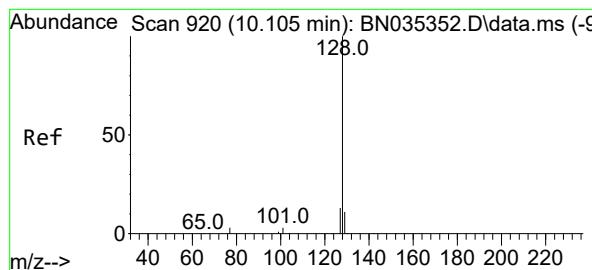


Abundance

Scan 764 (8.440 min): BN035352.D\data.ms (-74)

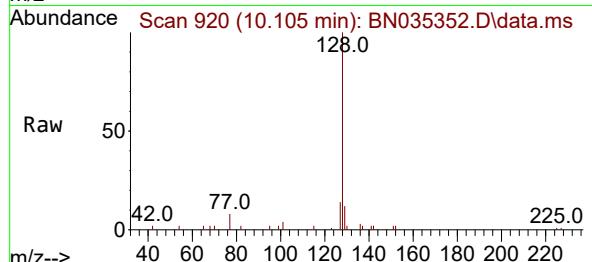
Sub

m/z-->

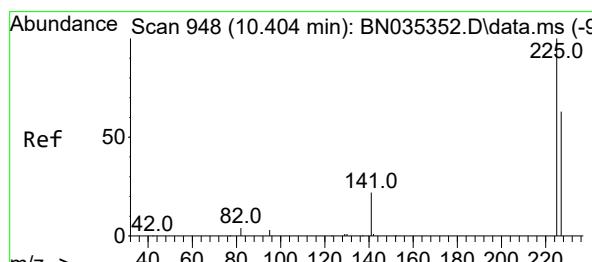
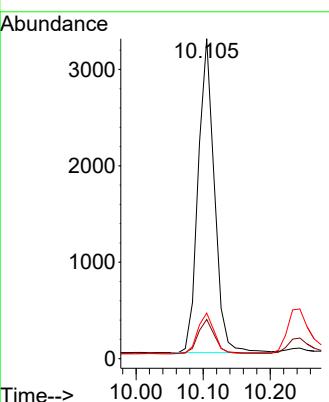
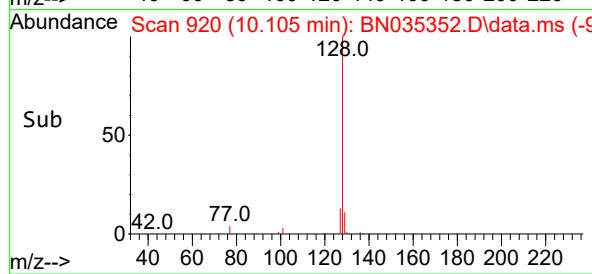


#9
Naphthalene
Concen: 0.401 ng
RT: 10.105 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

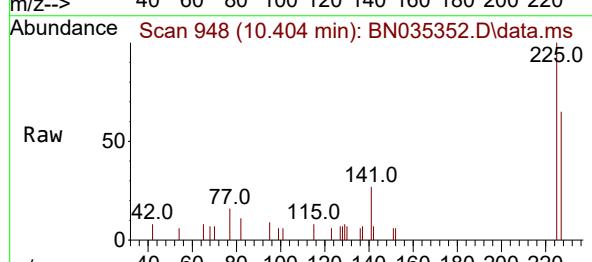
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



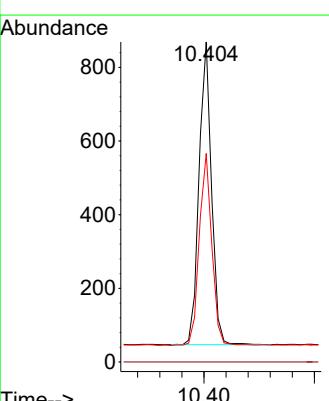
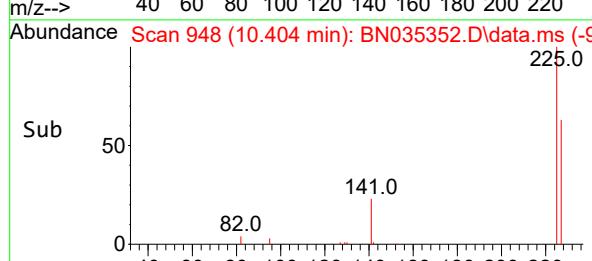
Tgt Ion:128 Resp: 5475
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.3 11.4 17.2

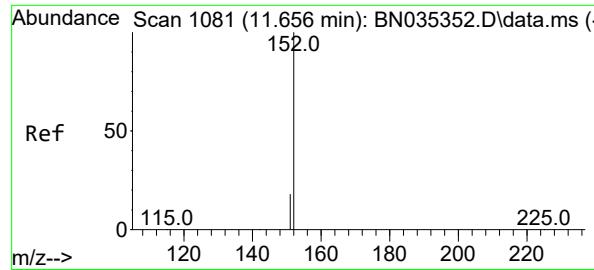


#10
Hexachlorobutadiene
Concen: 0.323 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

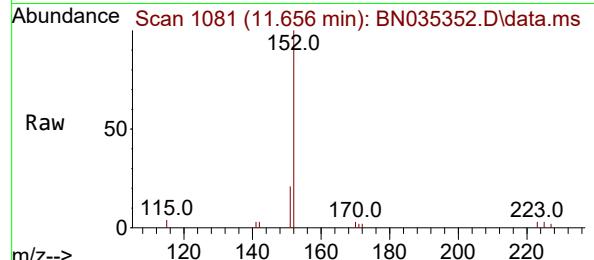


Tgt Ion:225 Resp: 1292
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9

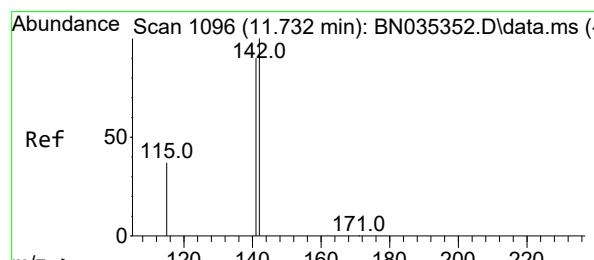
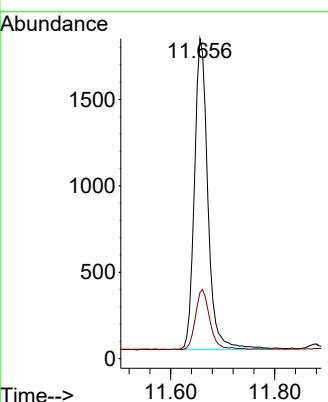
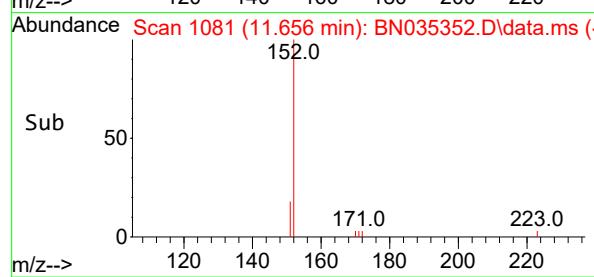




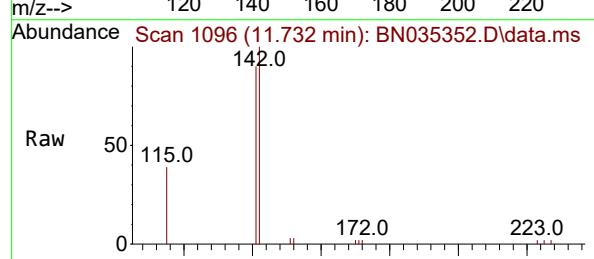
#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.656 min Scan# 1
Instrument: BNA_N
Delta R.T. 0.000 min
Lab File: BN035352.D
ClientSampleId : SSTDICCC0.4
Acq: 27 Nov 2024 16:46



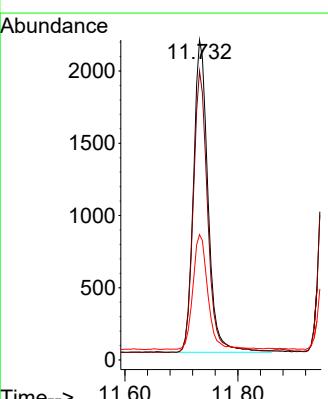
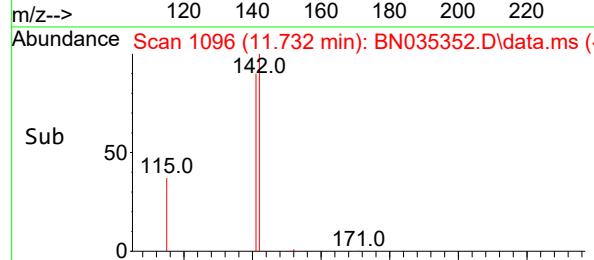
Tgt Ion:152 Resp: 3237
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

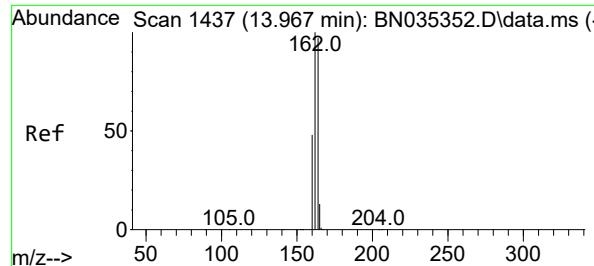


#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 11.732 min Scan# 1096
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



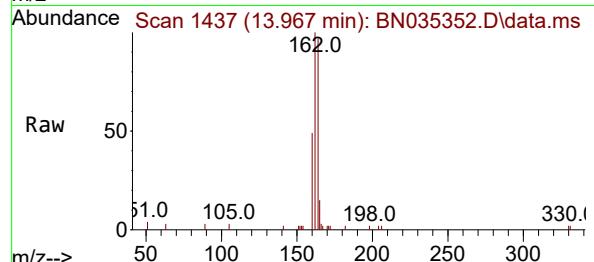
Tgt Ion:142 Resp: 3867
Ion Ratio Lower Upper
142 100
141 90.3 72.2 108.4
115 39.2 31.4 47.0



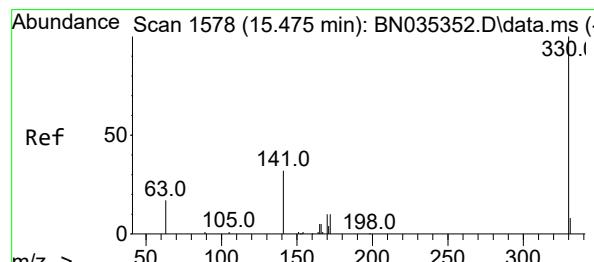
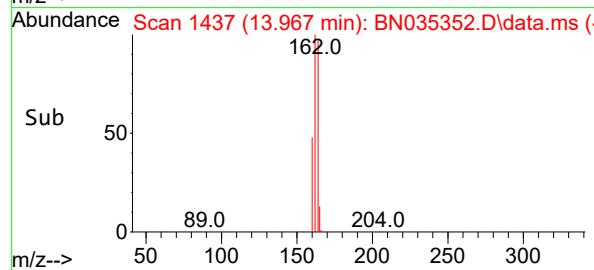
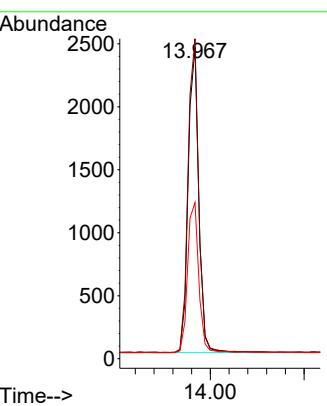


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.967 min Scan# 1437
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

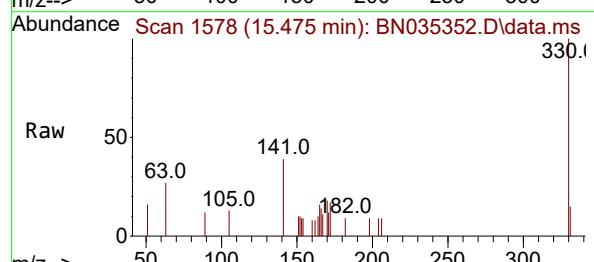
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4



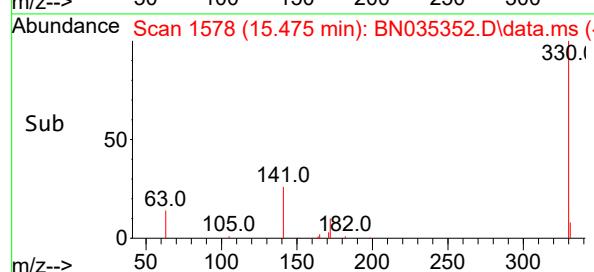
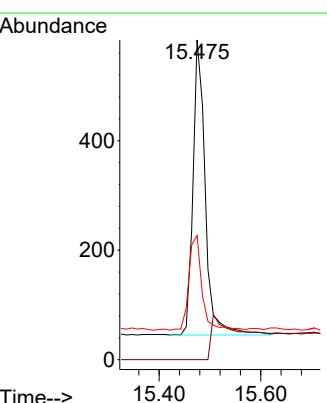
Tgt Ion:164 Resp: 3799
 Ion Ratio Lower Upper
 164 100
 162 102.7 82.2 123.2
 160 50.1 40.1 60.1

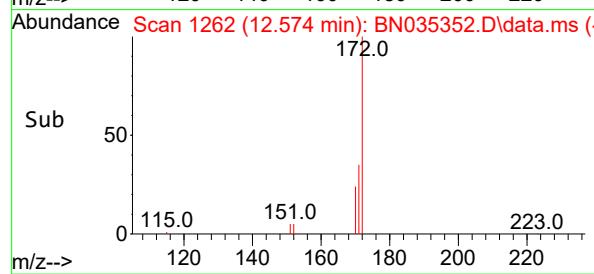
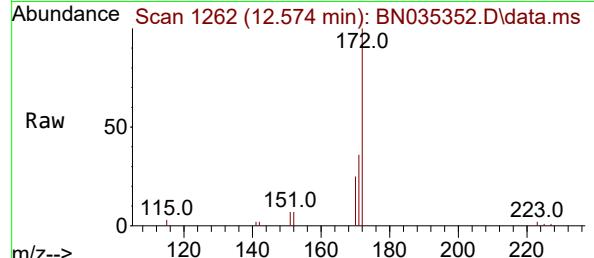
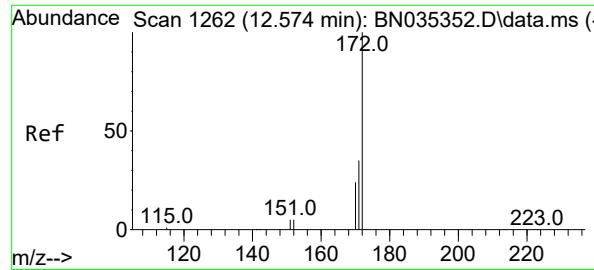


#14
 2,4,6-Tribromophenol
 Concen: 0.356 ng
 RT: 15.475 min Scan# 1578
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46



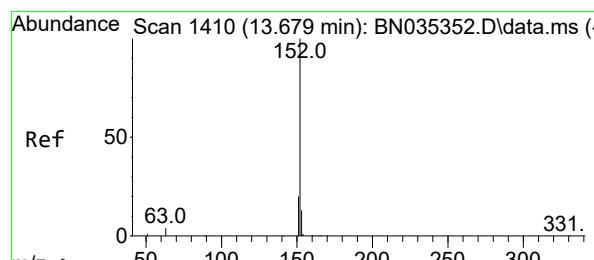
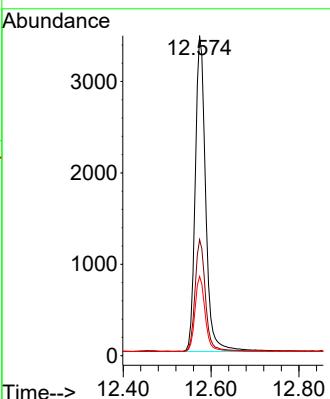
Tgt Ion:330 Resp: 975
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 33.3 26.6 40.0





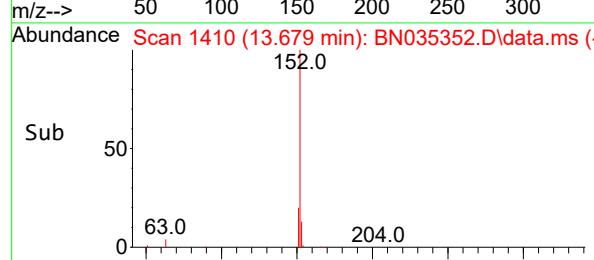
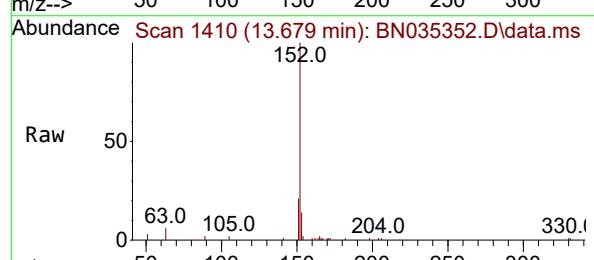
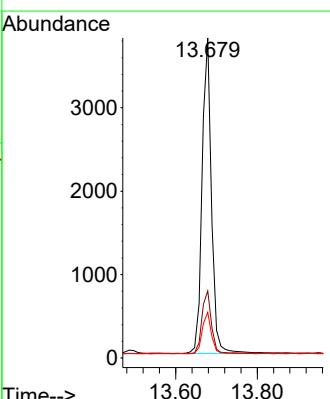
#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.574 min Scan# 1
Instrument: BNA_N
Delta R.T. 0.000 min
Lab File: BN035352.D
ClientSampleId: SSTDICCC0.4
Acq: 27 Nov 2024 16:46

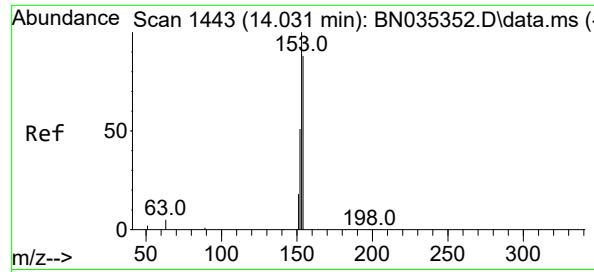
Tgt Ion:172 Resp: 5735
Ion Ratio Lower Upper
172 100
171 36.2 29.0 43.4
170 24.8 19.8 29.8



#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

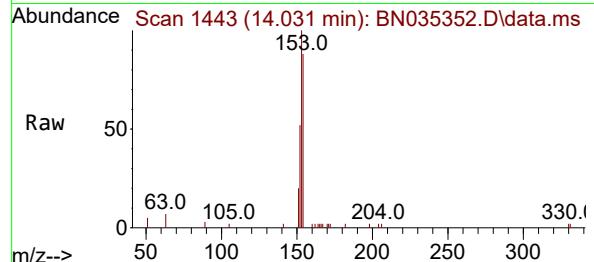
Tgt Ion:152 Resp: 6058
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2
153 13.0 10.4 15.6



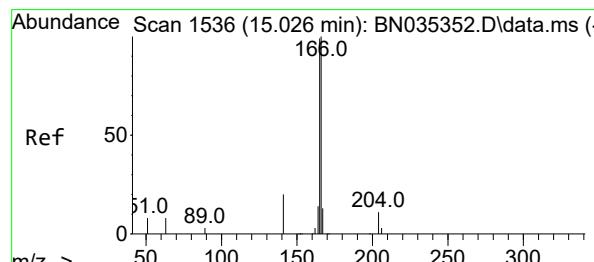
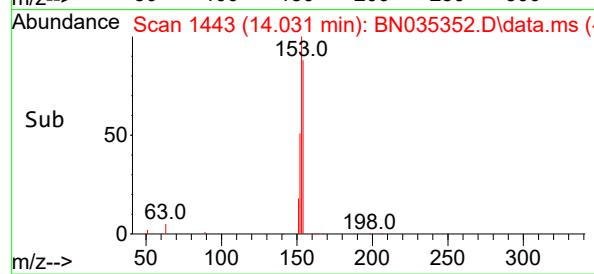
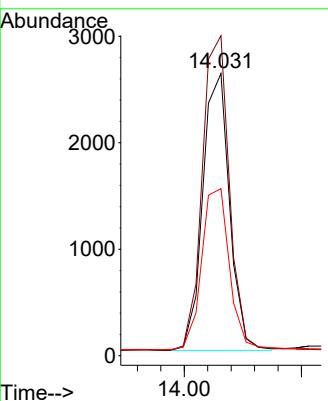


#17
 Acenaphthene
 Concen: 0.388 ng
 RT: 14.031 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

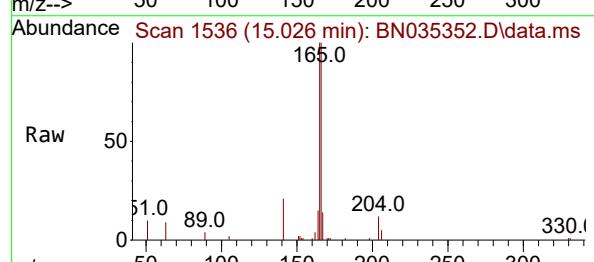
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4



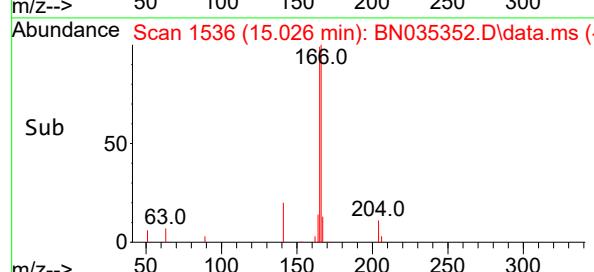
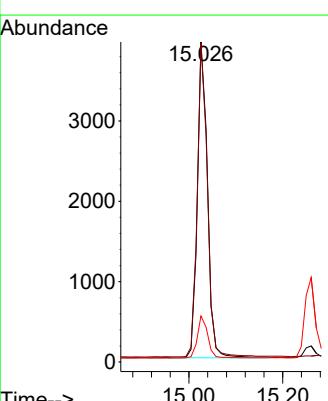
Tgt Ion:154 Resp: 4125
 Ion Ratio Lower Upper
 154 100
 153 115.8 92.6 139.0
 152 61.3 49.0 73.6

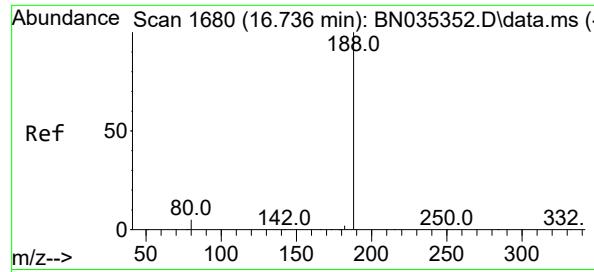


#18
 Fluorene
 Concen: 0.375 ng
 RT: 15.026 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46



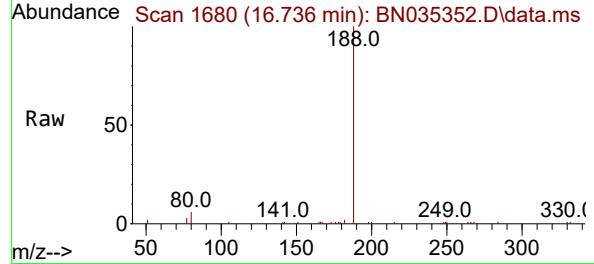
Tgt Ion:166 Resp: 5863
 Ion Ratio Lower Upper
 166 100
 165 99.6 79.7 119.5
 167 13.5 10.8 16.2



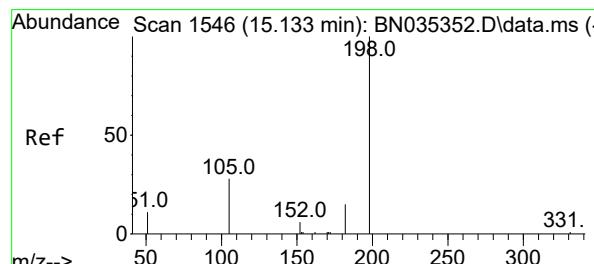
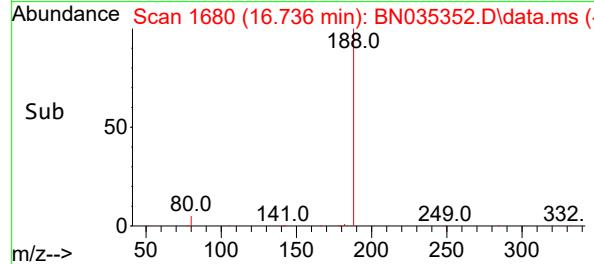
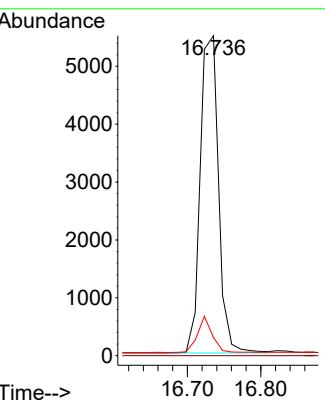


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.736 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

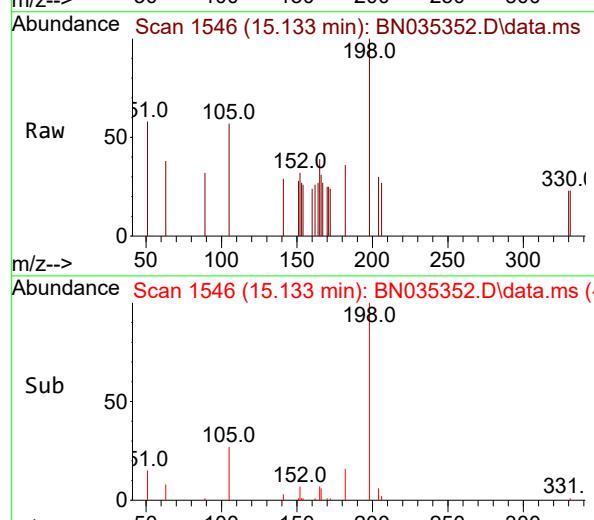
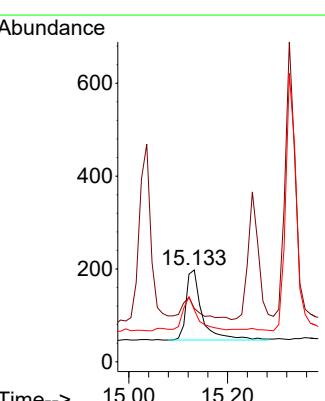


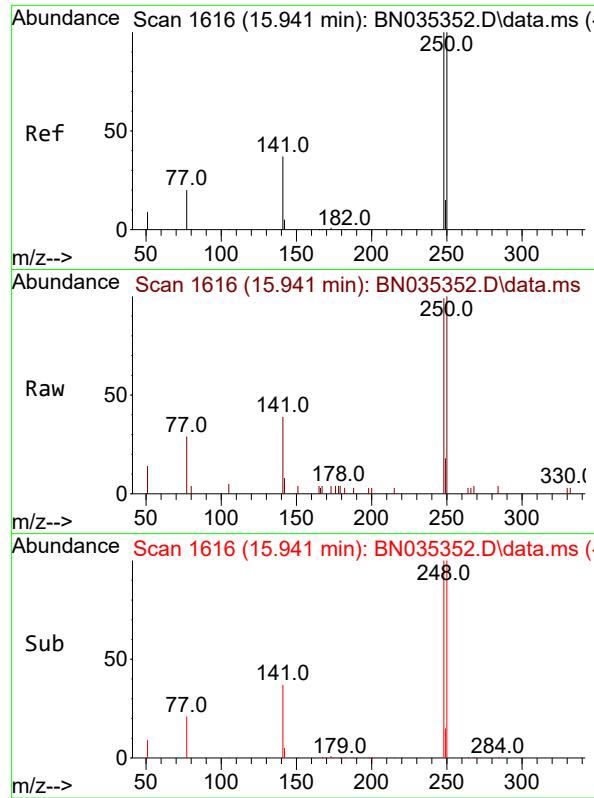
Tgt Ion:188 Resp: 9490
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 5.7 4.6 6.8



#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

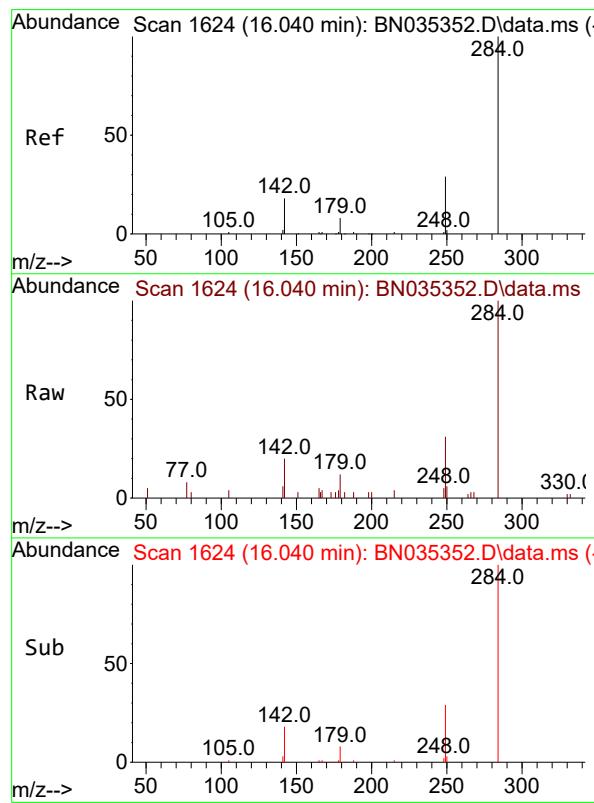
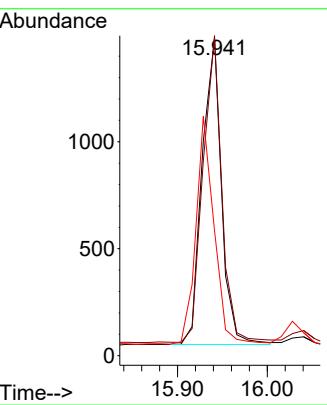




#21
 4-Bromophenyl-phenylether
 Concen: 0.355 ng
 RT: 15.941 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

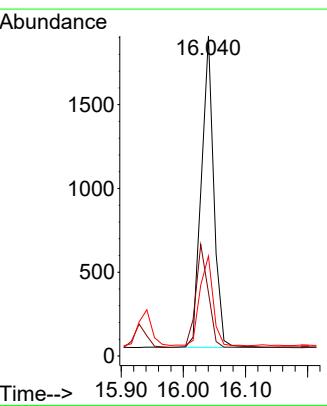
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

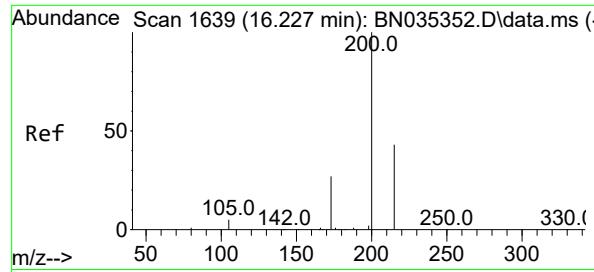
Tgt Ion:248 Resp: 2146
 Ion Ratio Lower Upper
 248 100
 250 100.7 80.6 120.8
 141 39.4 31.5 47.3



#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

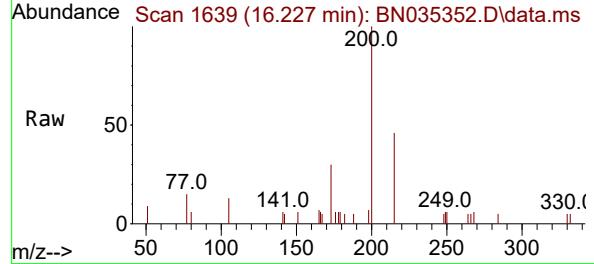
Tgt Ion:284 Resp: 2590
 Ion Ratio Lower Upper
 284 100
 142 33.4 26.7 40.1
 249 30.7 24.6 36.8



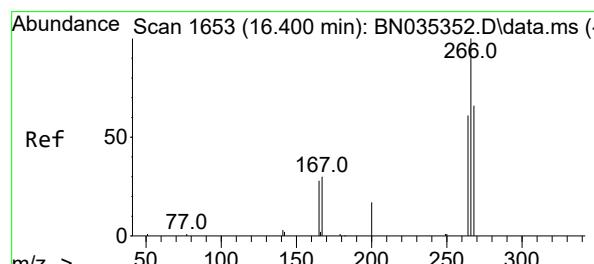
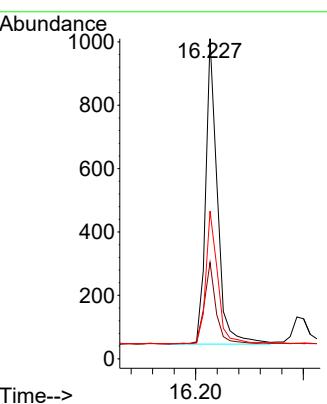
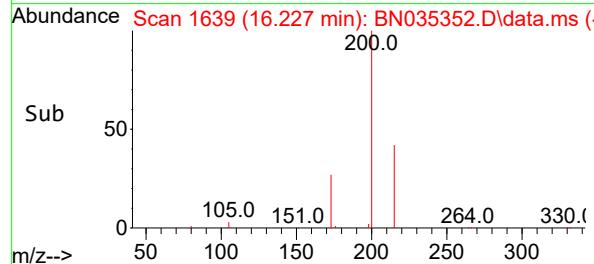


#23
Atrazine
Concen: 0.269 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46

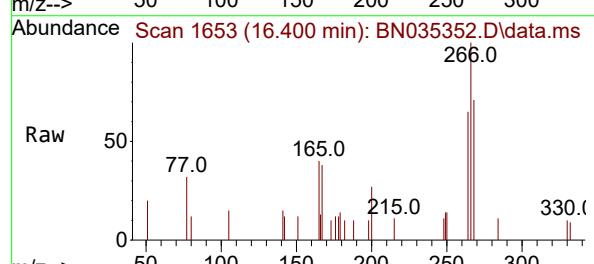
Instrument : BNA_N
ClientSampleId : SSTDICCC0.4



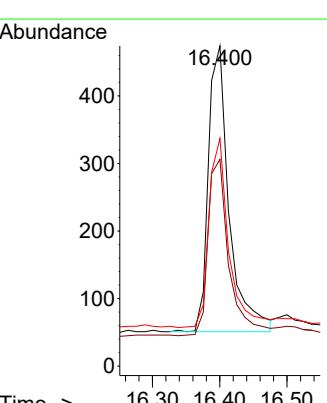
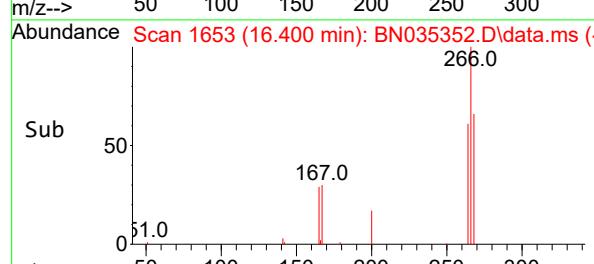
Tgt Ion:200 Resp: 1461
Ion Ratio Lower Upper
200 100
173 30.1 24.1 36.1
215 46.1 36.9 55.3

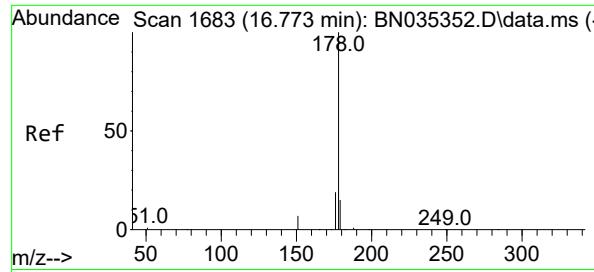


#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



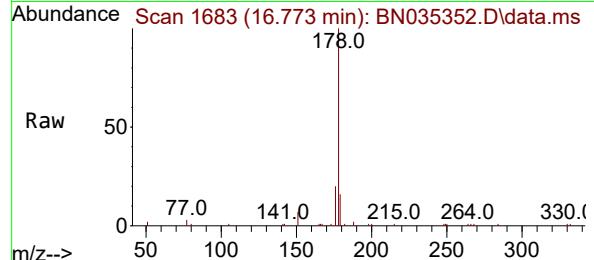
Tgt Ion:266 Resp: 906
Ion Ratio Lower Upper
266 100
264 62.4 42.3 63.5
268 63.8 43.3 64.9



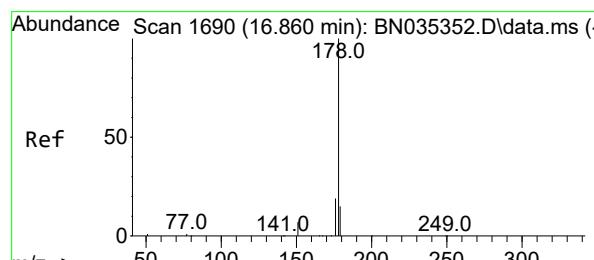
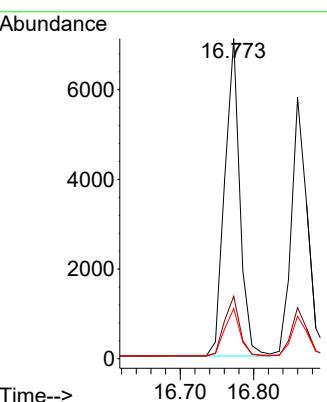
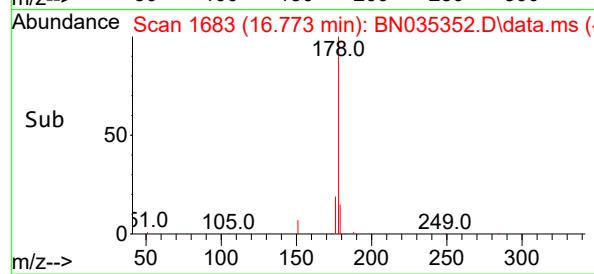


#25
 Phenanthrene
 Concen: 0.405 ng
 RT: 16.773 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

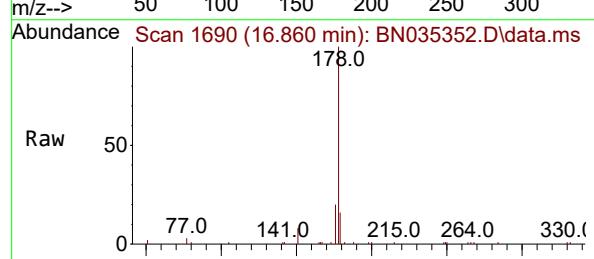
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4



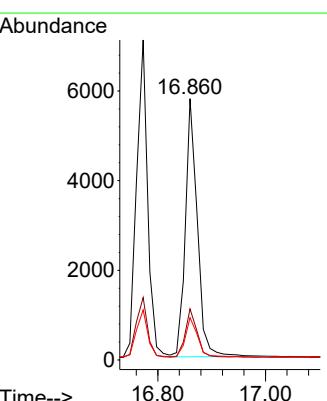
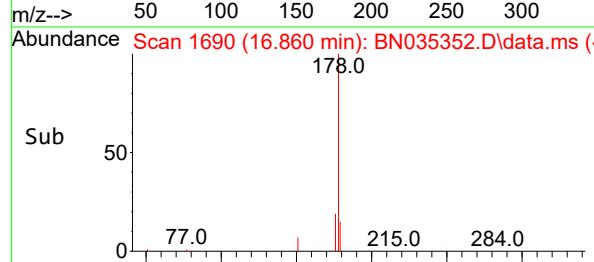
Tgt Ion:178 Resp: 10127
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.4 23.2
 179 15.4 12.3 18.5

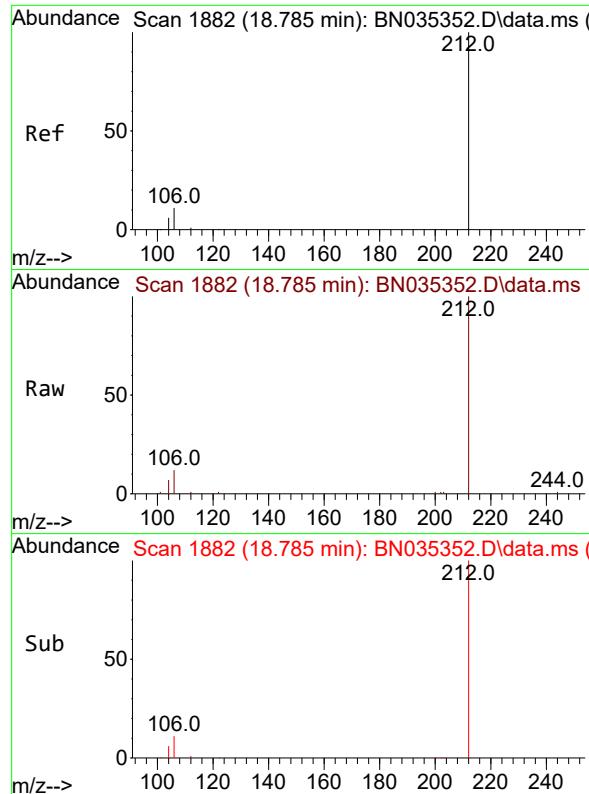


#26
 Anthracene
 Concen: 0.389 ng
 RT: 16.860 min Scan# 1690
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46



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

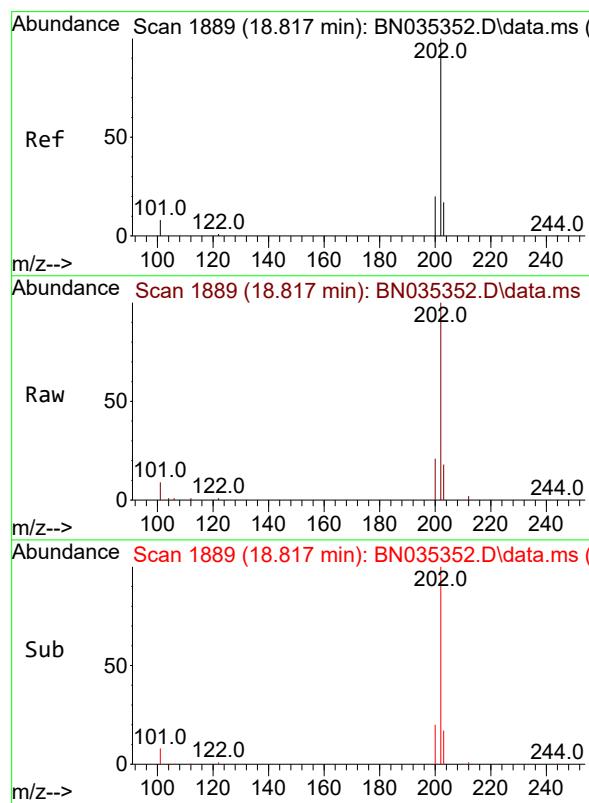
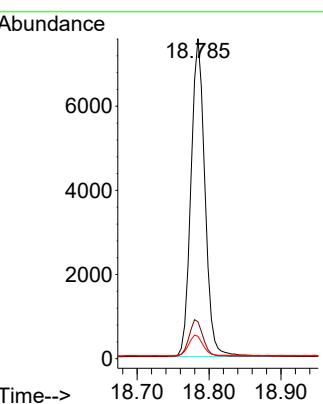




#27
 Fluoranthene-d10
 Concen: 0.352 ng
 RT: 18.785 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

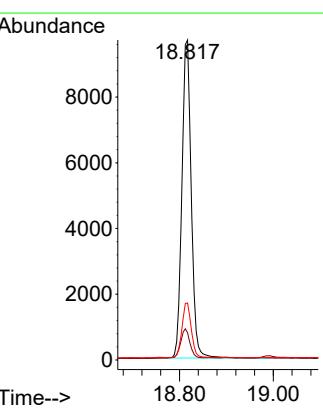
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

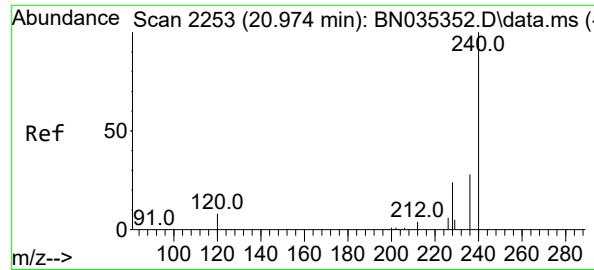
Tgt Ion:212 Resp: 10223
 Ion Ratio Lower Upper
 212 100
 106 11.5 9.2 13.8
 104 6.6 5.3 7.9



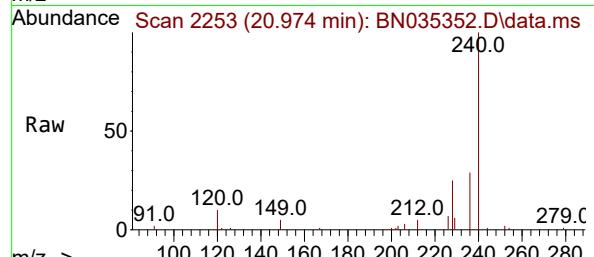
#28
 Fluoranthene
 Concen: 0.391 ng
 RT: 18.817 min Scan# 1889
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

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

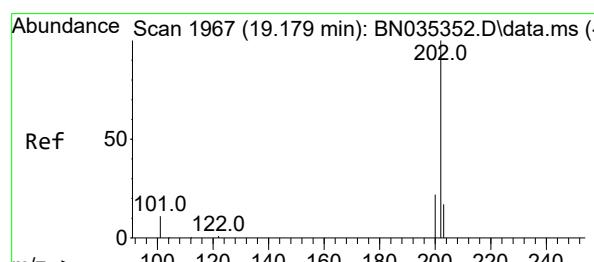
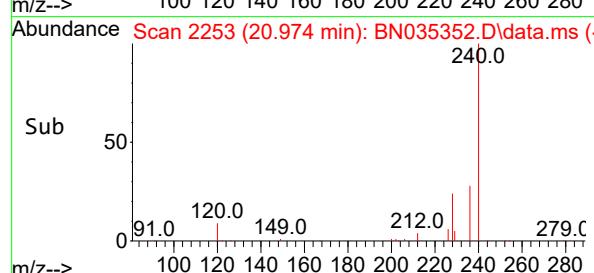
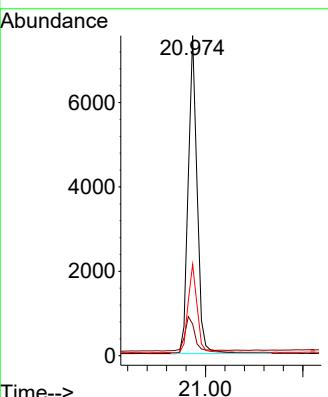




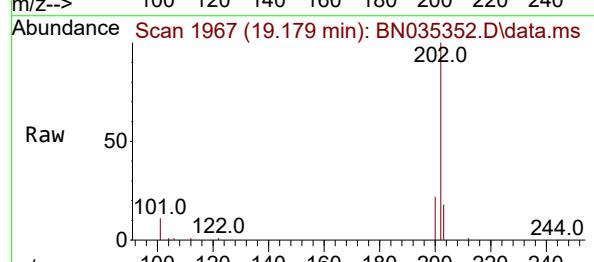
#29
Chrysene-d12
Concen: 0.400 ng
RT: 20.974 min Scan# 2
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035352.D ClientSampleId : SSTDICCC0.4
Acq: 27 Nov 2024 16:46



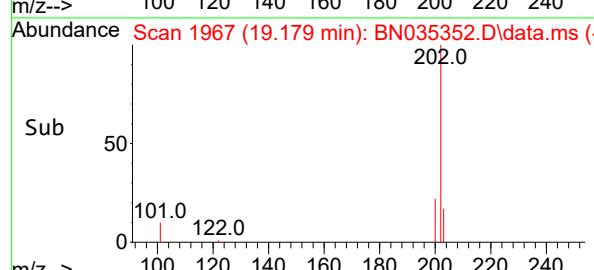
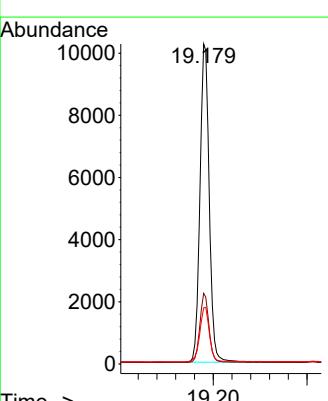
Tgt Ion:240 Resp: 9527
Ion Ratio Lower Upper
240 100
120 9.9 7.9 11.9
236 28.6 22.9 34.3

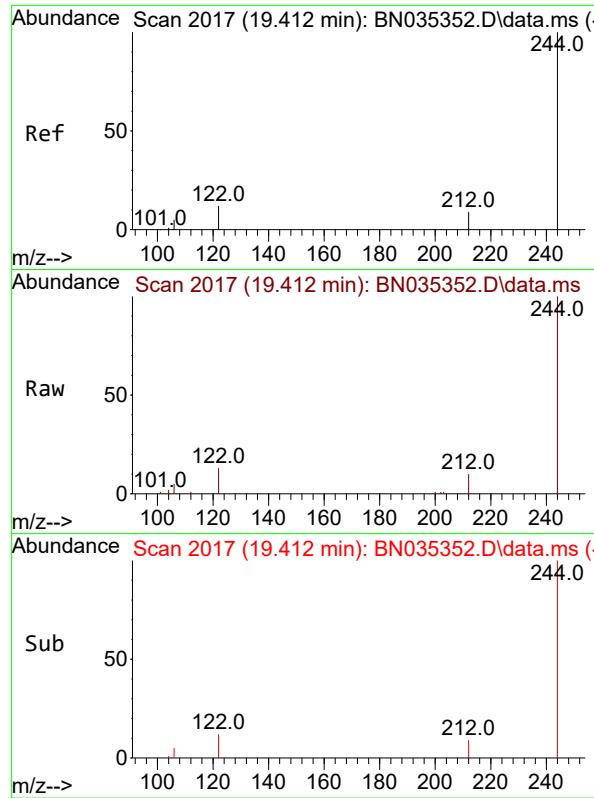


#30
Pyrene
Concen: 0.443 ng
RT: 19.179 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BN035352.D
Acq: 27 Nov 2024 16:46



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

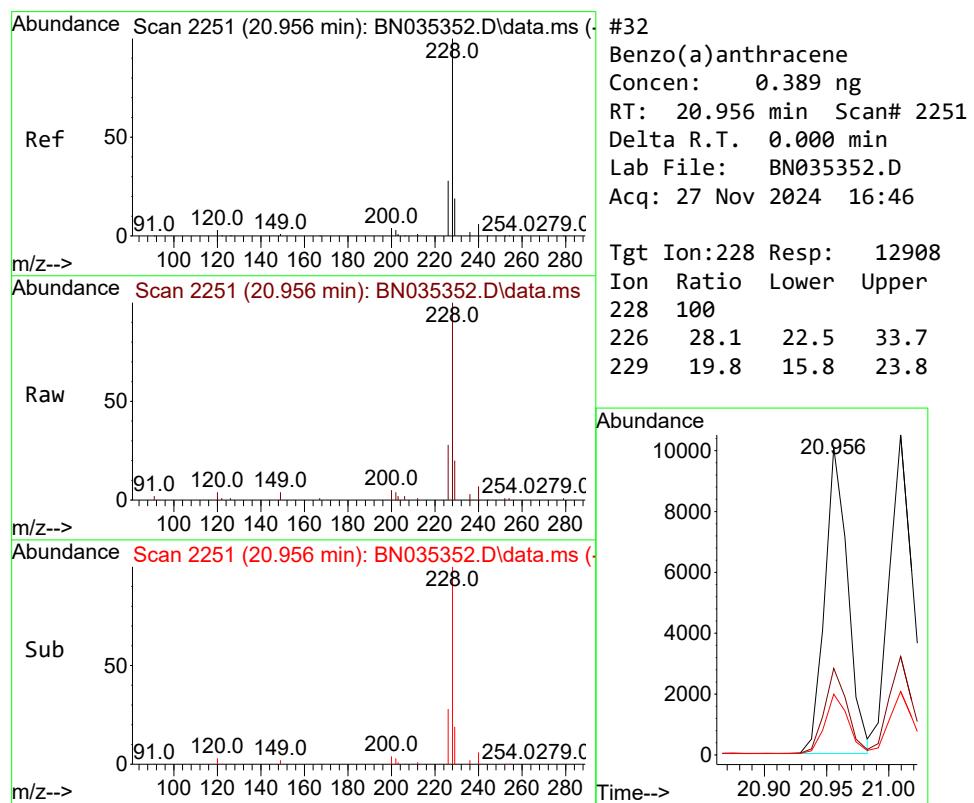
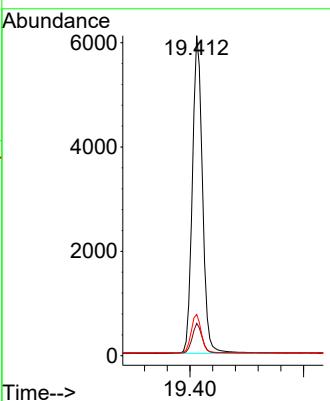




#31
 Terphenyl-d14
 Concen: 0.377 ng
 RT: 19.412 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

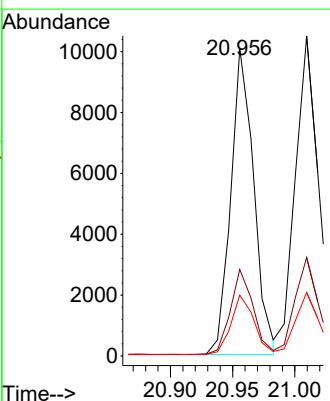
Instrument : BNA_N
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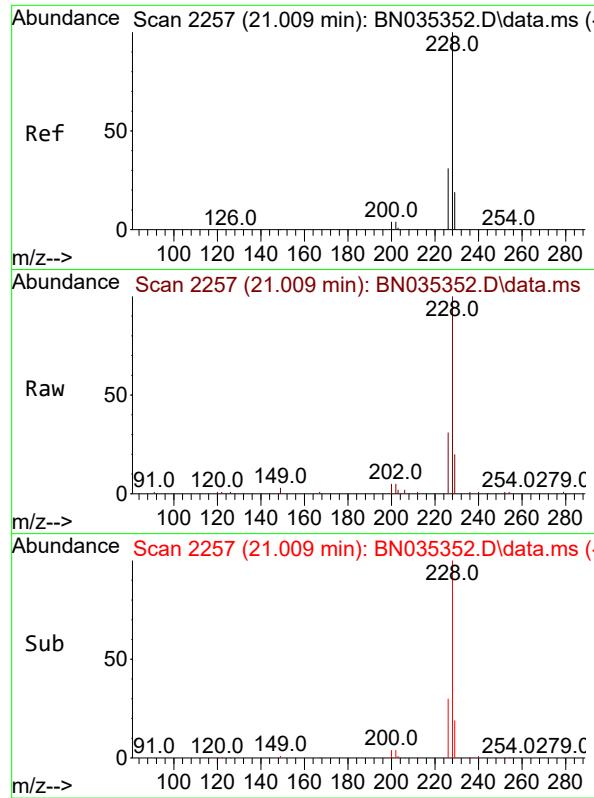
Tgt Ion:244 Resp: 7533
 Ion Ratio Lower Upper
 244 100
 212 10.1 8.1 12.1
 122 12.9 10.3 15.5



#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

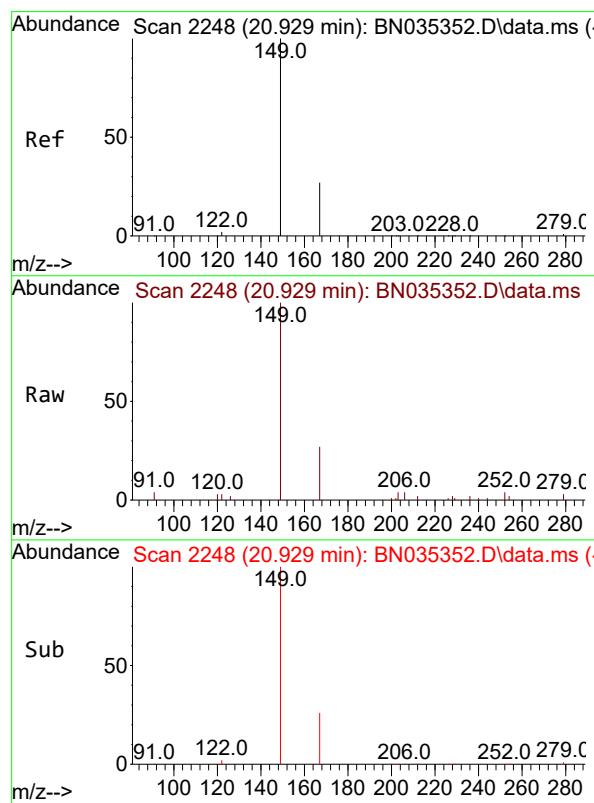
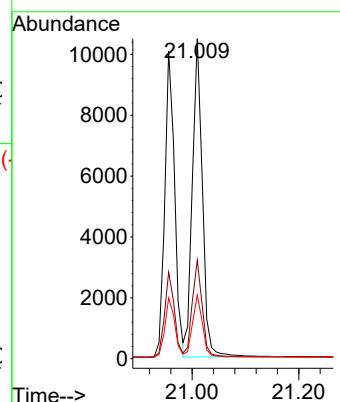




#33
 Chrysene
 Concen: 0.418 ng
 RT: 21.009 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

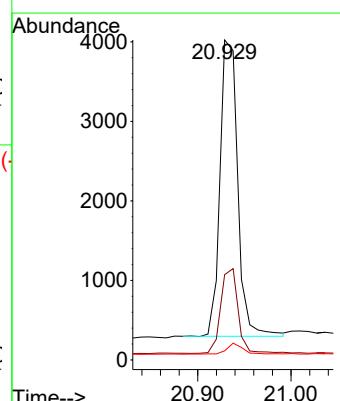
Instrument : BNA_N
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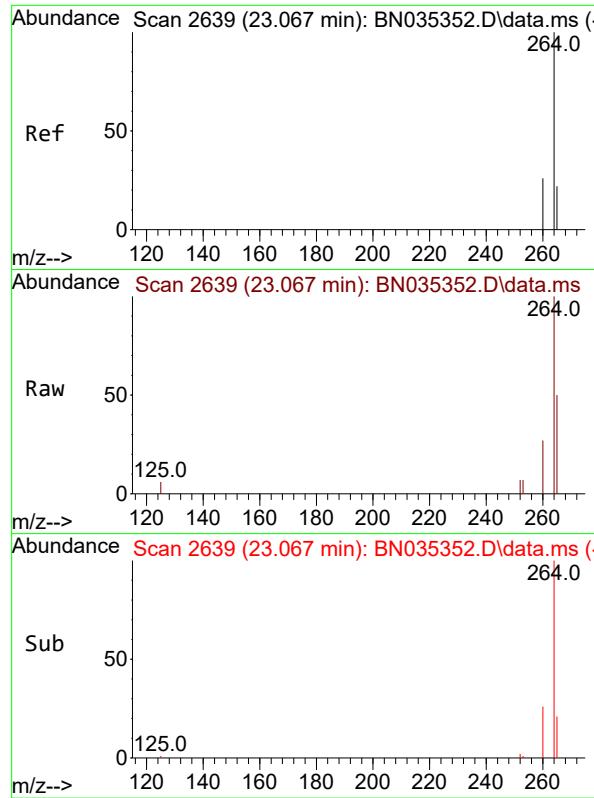
Tgt Ion:228 Resp: 13729
 Ion Ratio Lower Upper
 228 100
 226 30.8 24.6 37.0
 229 19.9 15.9 23.9



#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

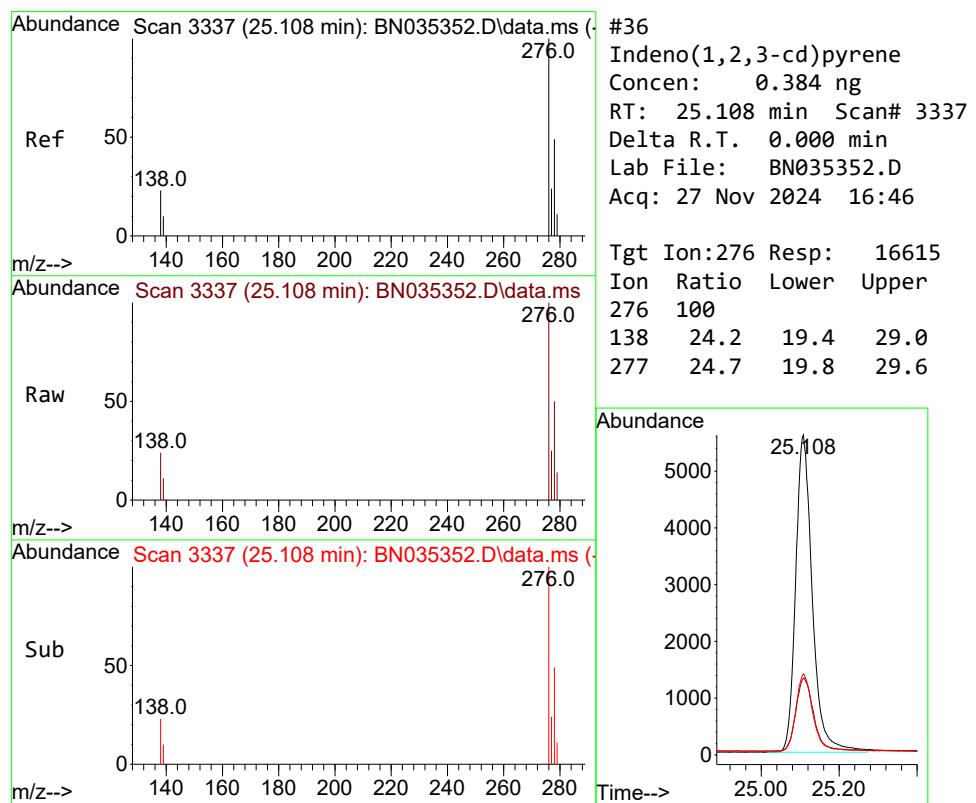
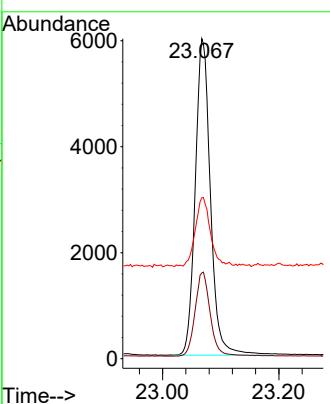




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.067 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

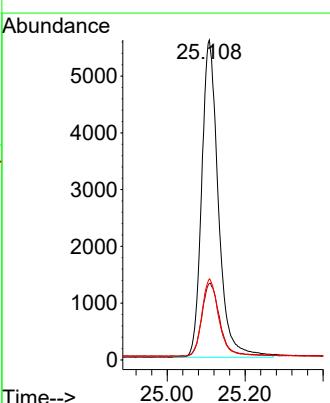
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

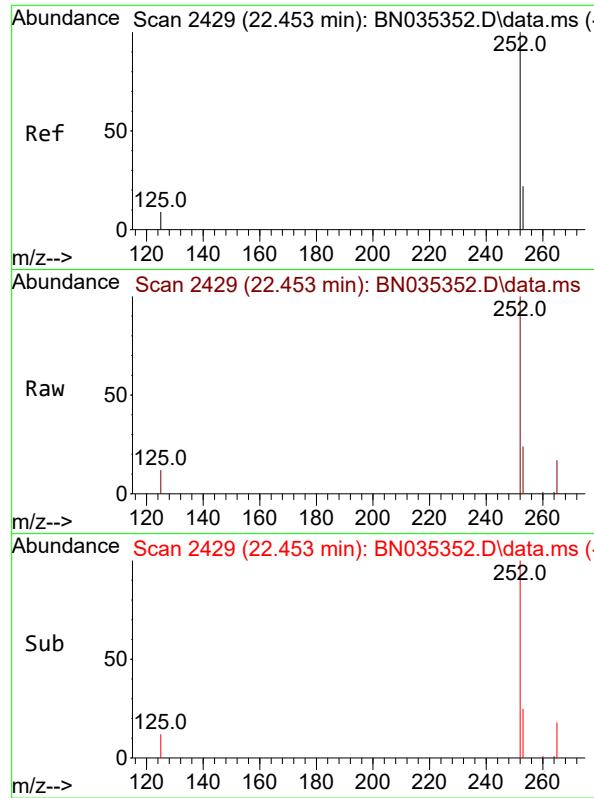
Tgt Ion:264 Resp: 10842
 Ion Ratio Lower Upper
 264 100
 260 26.8 21.4 32.2
 265 50.3 40.2 60.4



#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

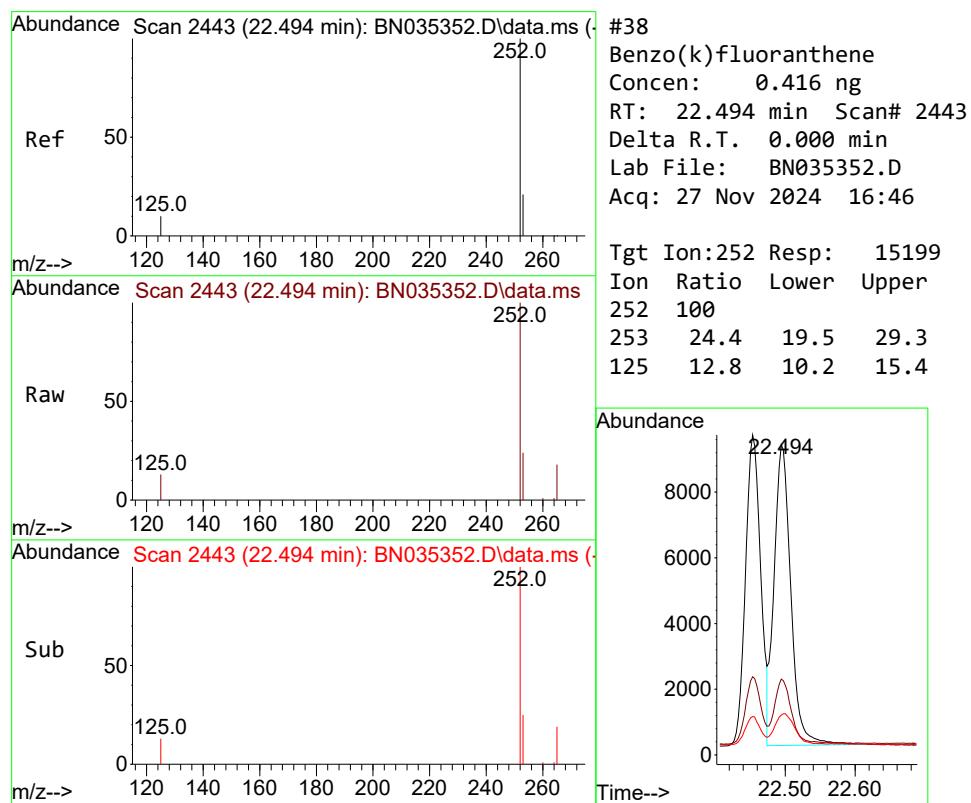
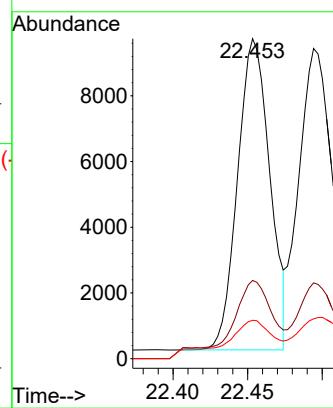




#37
 Benzo(b)fluoranthene
 Concen: 0.390 ng
 RT: 22.453 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

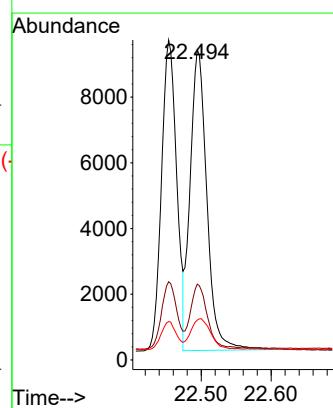
Instrument : BNA_N
 ClientSampleId : SSTDICCC0.4

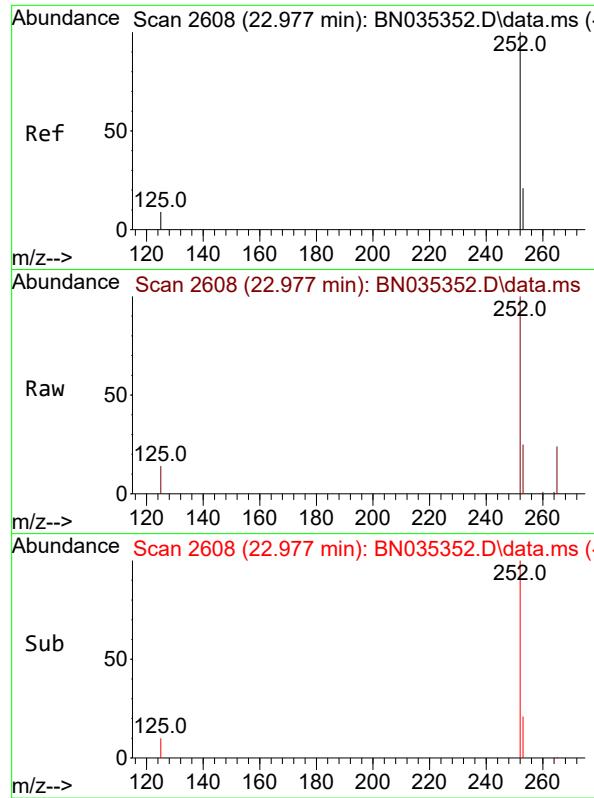
Tgt Ion:252 Resp: 14235
 Ion Ratio Lower Upper
 252 100
 253 24.5 19.6 29.4
 125 12.0 9.6 14.4



#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

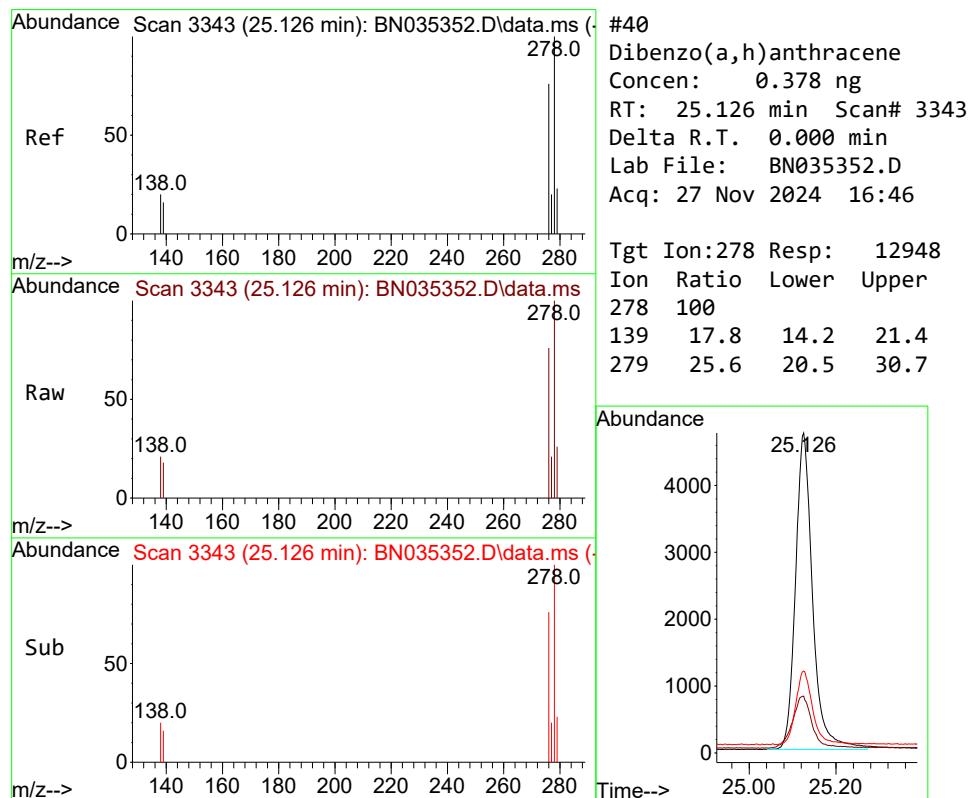
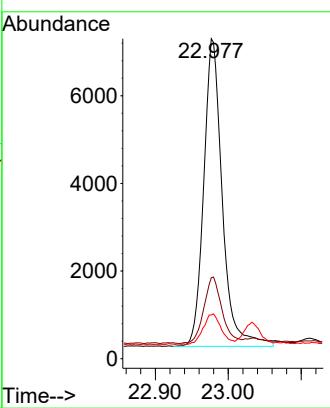




#39
 Benzo(a)pyrene
 Concen: 0.387 ng
 RT: 22.977 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

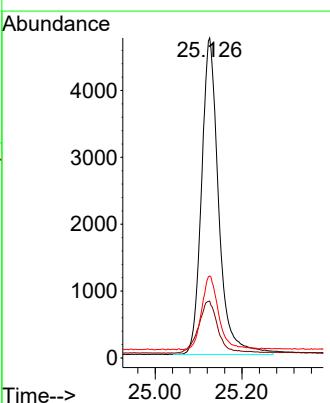
Instrument : BNA_N
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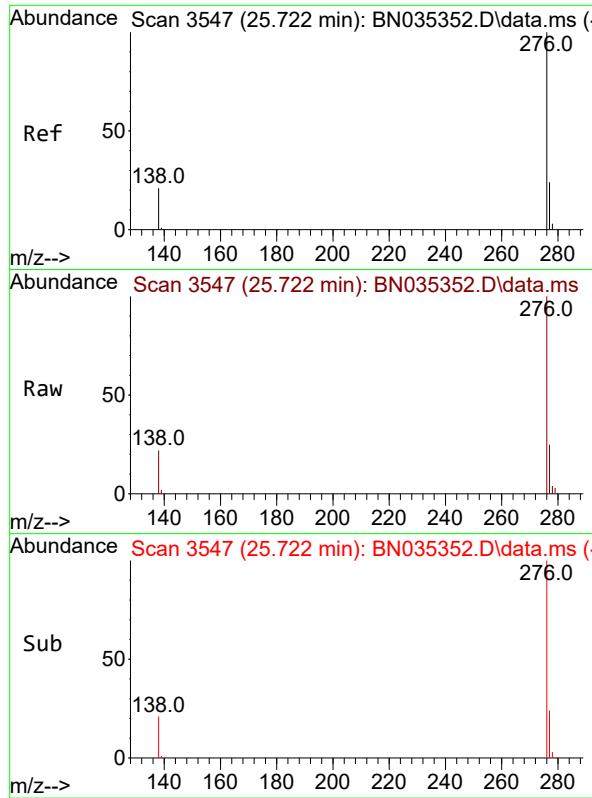
Tgt Ion:252 Resp: 12425
 Ion Ratio Lower Upper
 252 100
 253 25.3 20.2 30.4
 125 13.6 10.9 16.3



#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

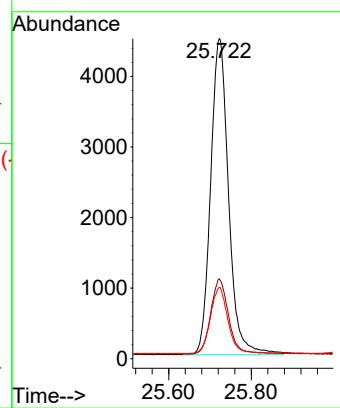




#41
 Benzo(g,h,i)perylene
 Concen: 0.371 ng
 RT: 25.722 min Scan# 3
 Delta R.T. 0.000 min
 Lab File: BN035352.D
 Acq: 27 Nov 2024 16:46

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



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

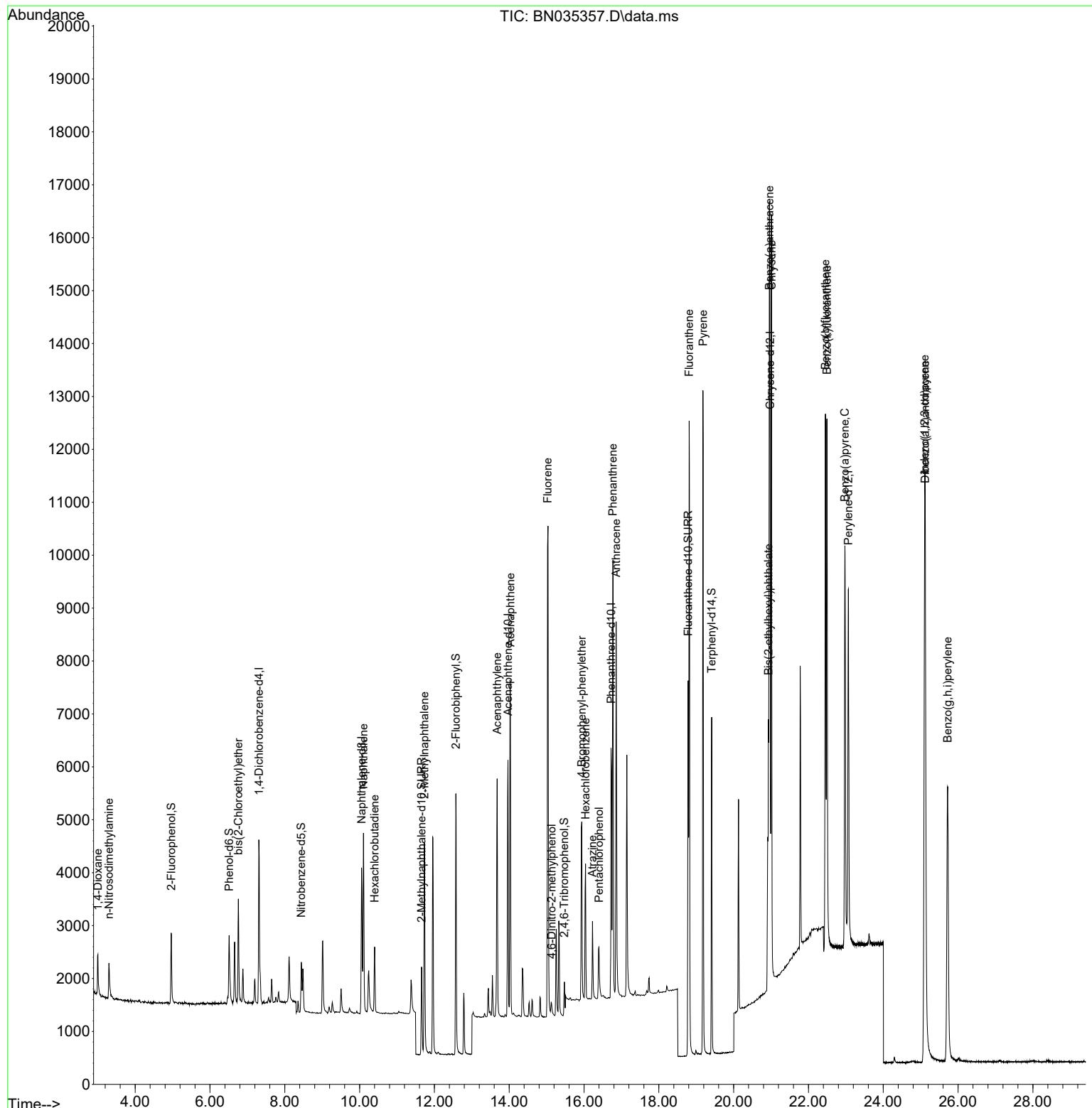
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1540	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	3904	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	2879	0.400	ng	0.00
19) Phenanthrene-d10	16.723	188	7350	0.400	ng	#-0.01
29) Chrysene-d12	20.974	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

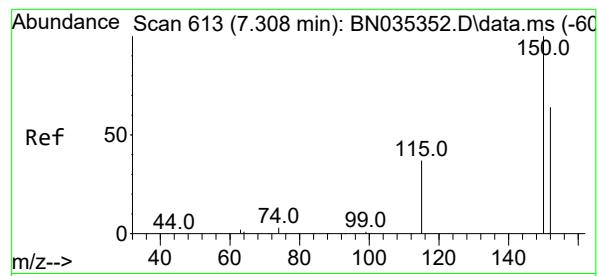
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 27 Nov 2024 20:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

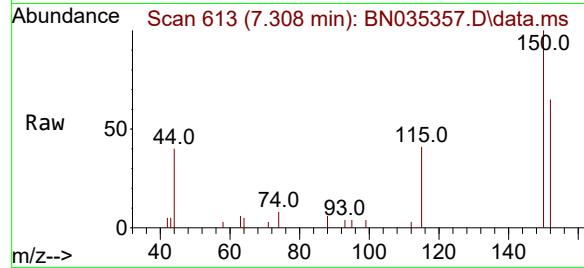
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BNA_N
ClientSampleId :
ICVBN112724

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

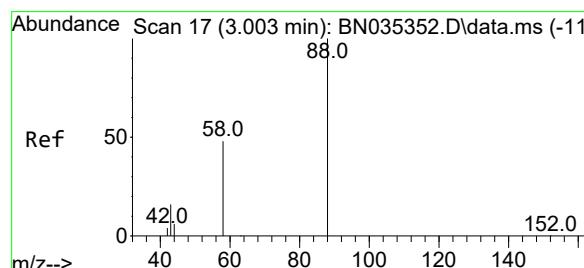
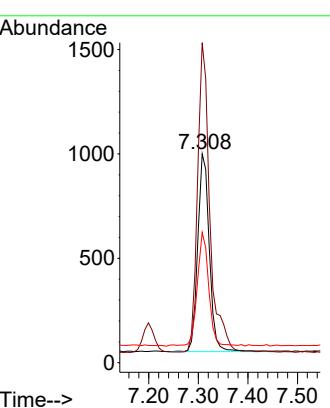
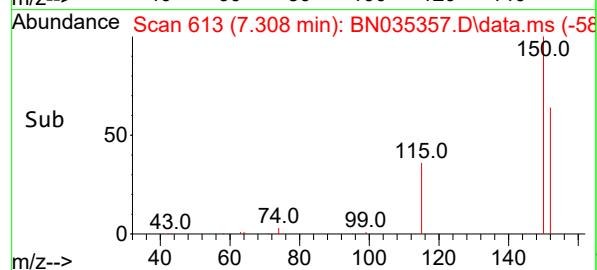




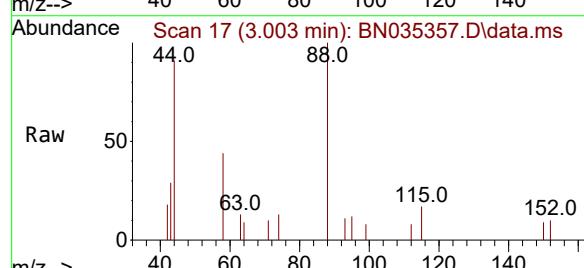
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035357.D
ClientSampleId : ICVBN112724
Acq: 27 Nov 2024 20:21



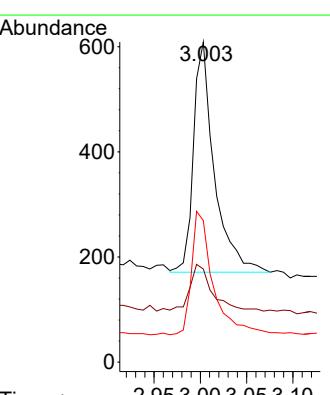
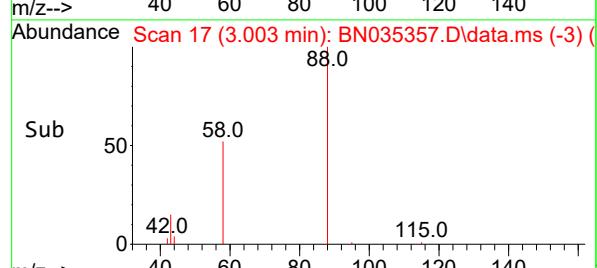
Tgt Ion:152 Resp: 1540
Ion Ratio Lower Upper
152 100
150 153.3 124.0 186.0
115 62.4 49.6 74.4

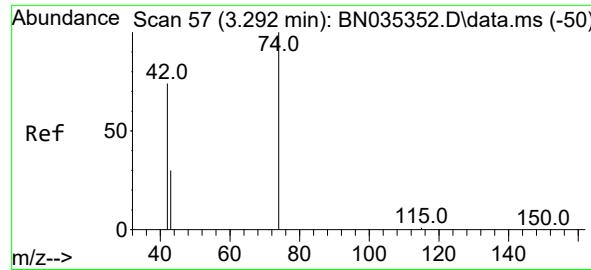


#2
1,4-Dioxane
Concen: 0.465 ng
RT: 3.003 min Scan# 17
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



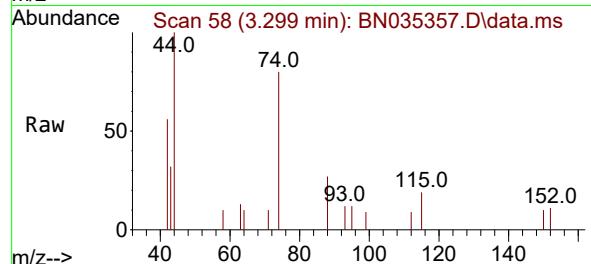
Tgt Ion: 88 Resp: 684
Ion Ratio Lower Upper
88 100
43 21.8 17.2 25.8
58 56.0 44.5 66.7



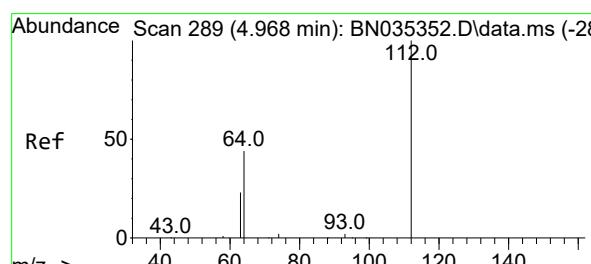
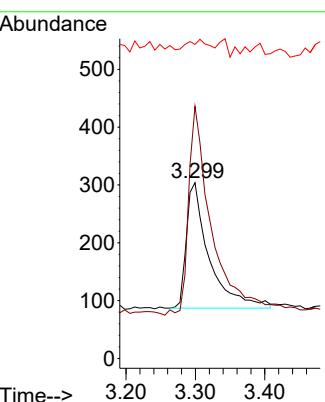
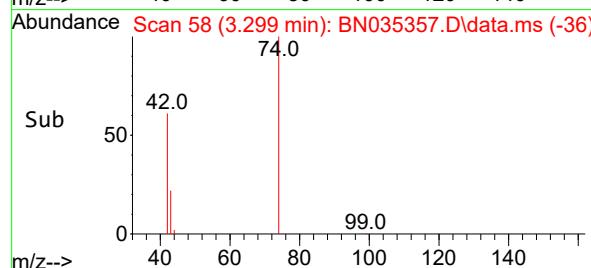


#3
n-Nitrosodimethylamine
Concen: 0.404 ng
RT: 3.299 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

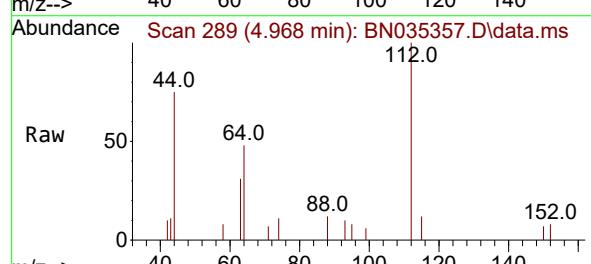
Instrument : BNA_N
ClientSampleId : ICVBN112724



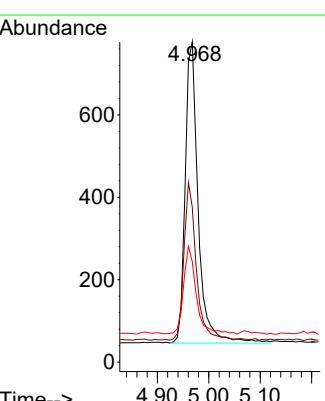
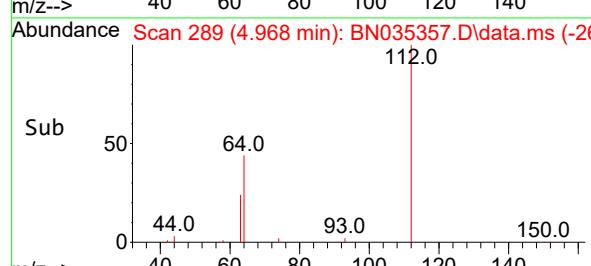
Tgt Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
74 172.1 124.9 187.3
44 6.3 2.2 3.4#

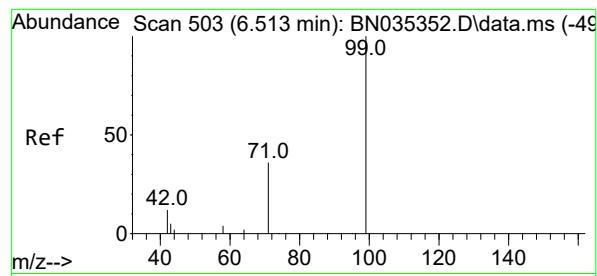


#4
2-Fluorophenol
Concen: 0.332 ng
RT: 4.968 min Scan# 289
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



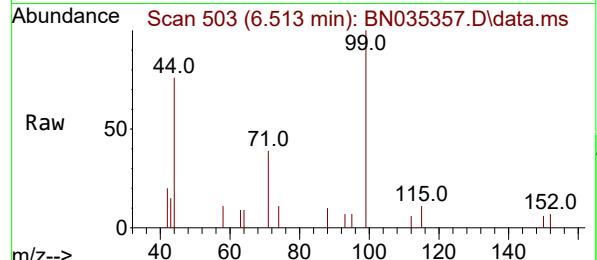
Tgt Ion:112 Resp: 1280
Ion Ratio Lower Upper
112 100
64 49.0 39.8 59.8
63 28.4 21.0 31.6



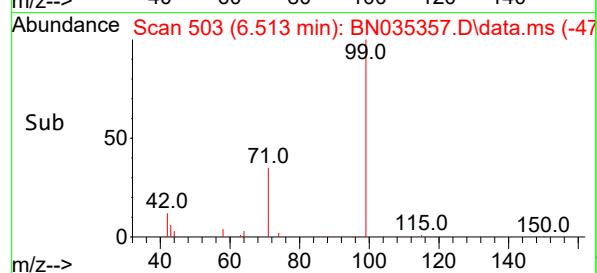
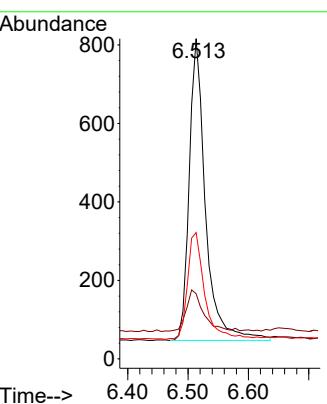


#5
Phenol-d6
Concen: 0.310 ng
RT: 6.513 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

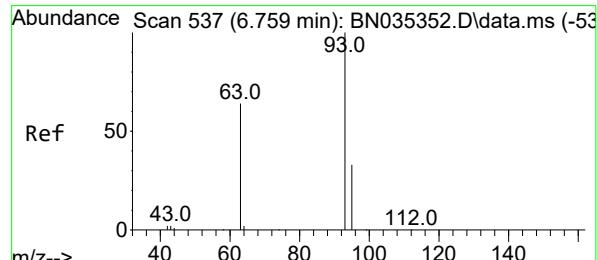
Instrument : BNA_N
ClientSampleId : ICVBN112724



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

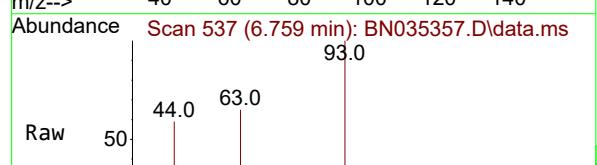
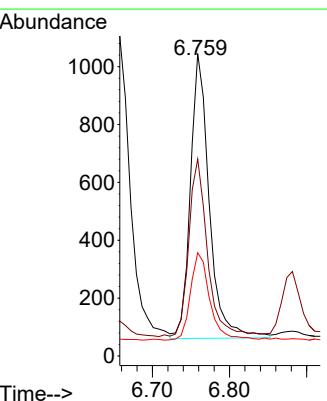


#6
bis(2-Chloroethyl)ether
Concen: 0.430 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

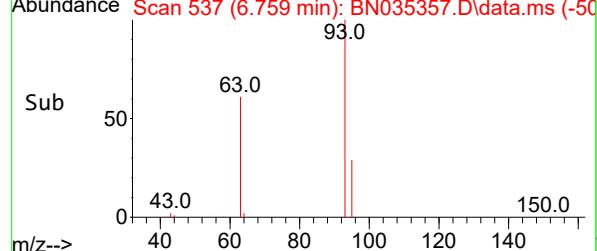


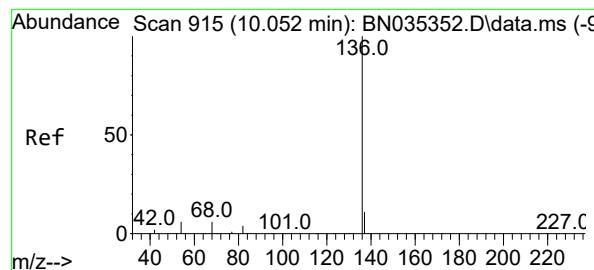
Tgt Ion: 93 Resp: 1676

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



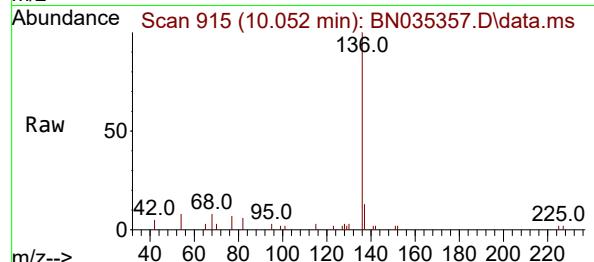
Abundance Scan 537 (6.759 min): BN035357.D\data.ms (-50)





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

Instrument : BNA_N
 ClientSampleId : ICVBN112724

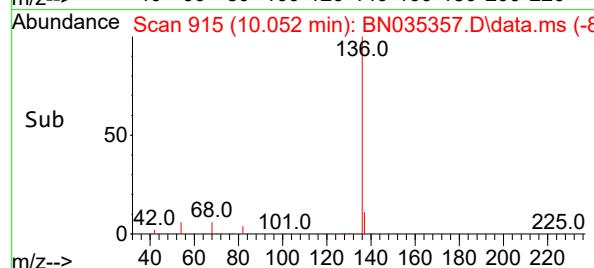
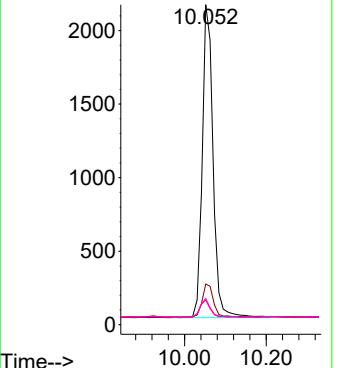


Tgt Ion:136 Resp: 3904

Ion Ratio Lower Upper

136	100
137	12.7
54	7.7
68	8.2
	10.2
	6.1
	6.4
	15.2
	9.1
	9.6

Abundance

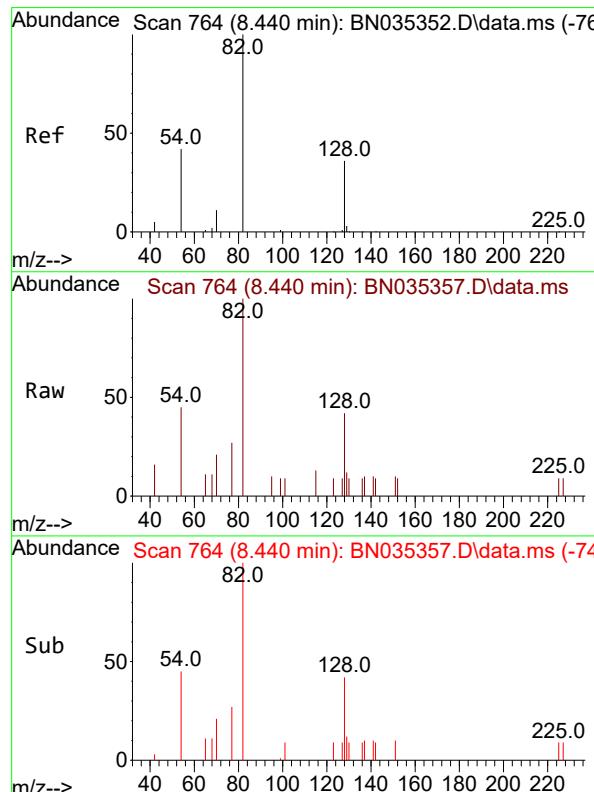
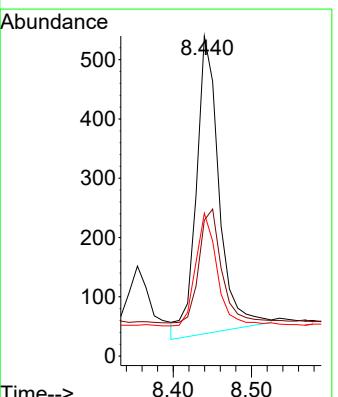


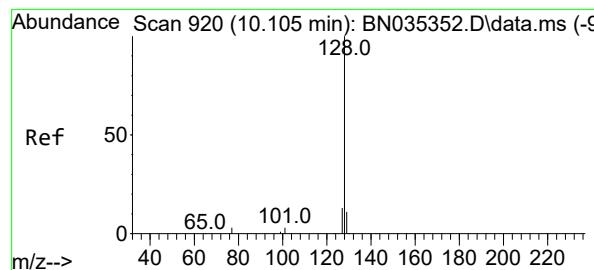
#8
 Nitrobenzene-d5
 Concen: 0.427 ng
 RT: 8.440 min Scan# 764
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

Tgt Ion: 82 Resp: 1017

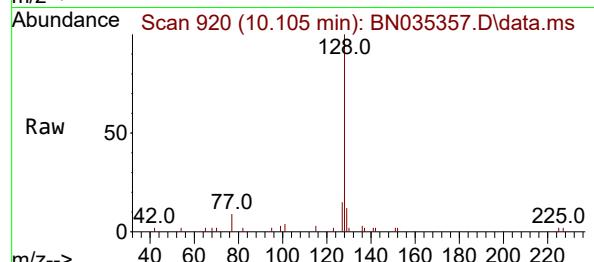
Ion Ratio Lower Upper

82	100
128	42.4
54	44.6
	33.4
	36.7
	50.0
	55.1

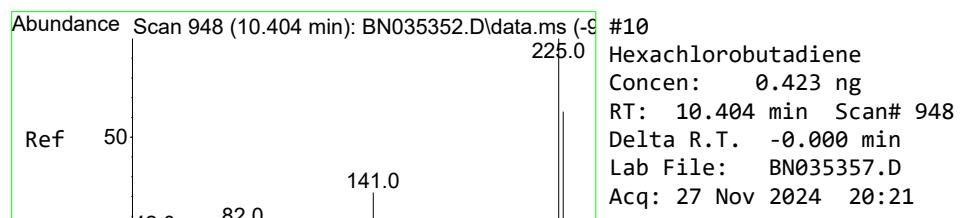
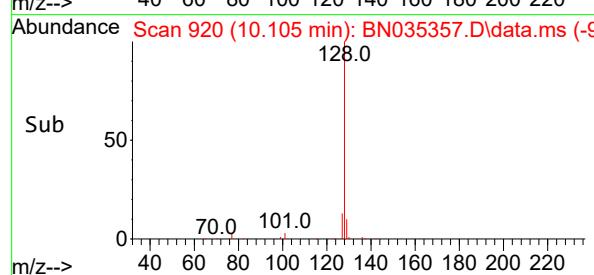
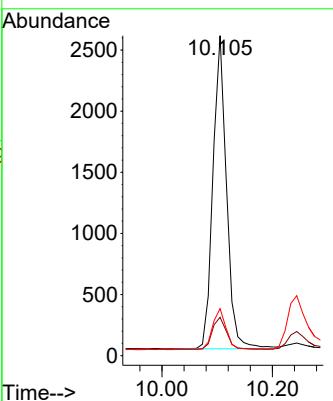




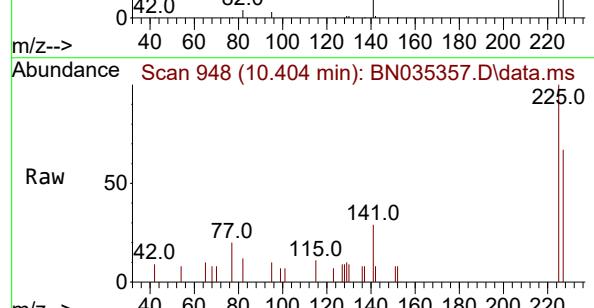
#9
Naphthalene
Concen: 0.424 ng
RT: 10.105 min Scan# 9
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035357.D
ClientSampleId : ICVBN112724
Acq: 27 Nov 2024 20:21



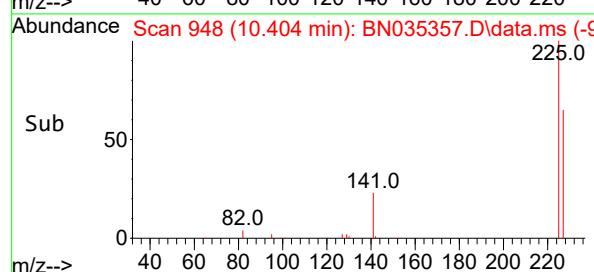
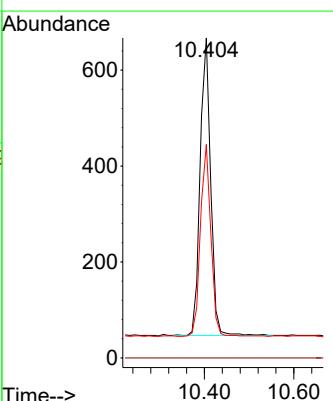
Tgt Ion:128 Resp: 4364
Ion Ratio Lower Upper
128 100
129 12.0 9.8 14.6
127 14.7 11.4 17.2

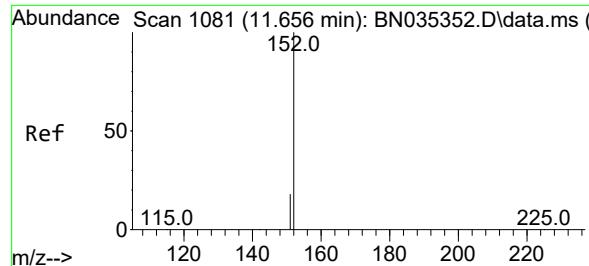


#10
Hexachlorobutadiene
Concen: 0.423 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

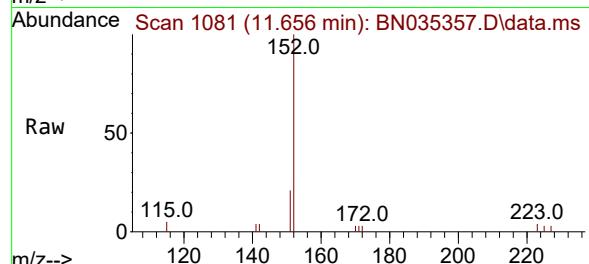


Tgt Ion:225 Resp: 1005
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9

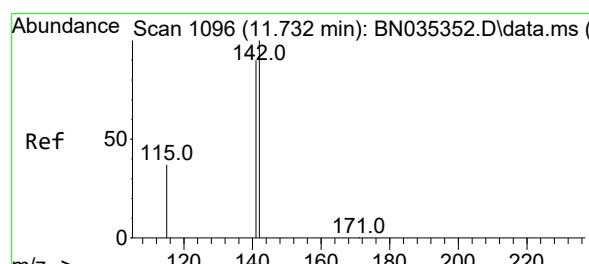
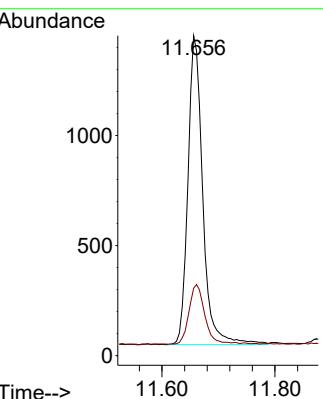
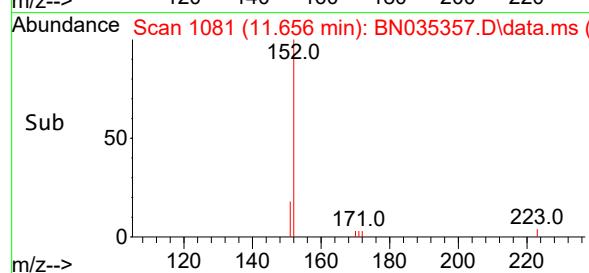




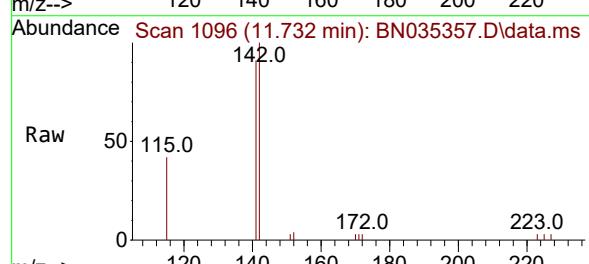
#11
2-Methylnaphthalene-d10
Concen: 0.420 ng
RT: 11.656 min Scan# 1
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035357.D
ClientSampleId : ICBVN112724
Acq: 27 Nov 2024 20:21



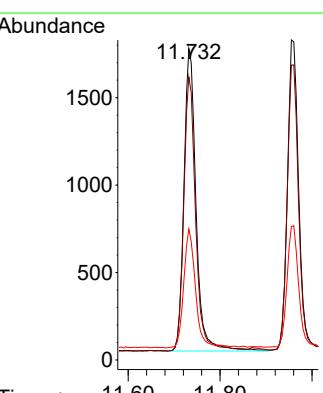
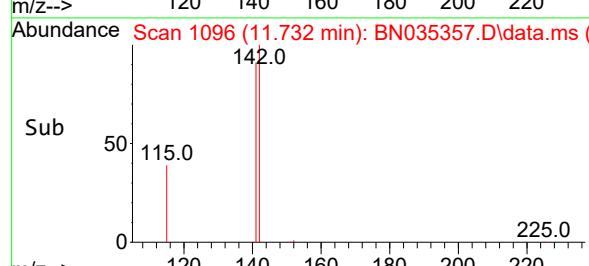
Tgt Ion:152 Resp: 2565
Ion Ratio Lower Upper
152 100
151 20.5 16.6 25.0

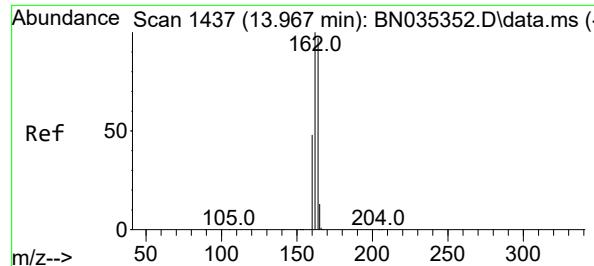


#12
2-Methylnaphthalene
Concen: 0.428 ng
RT: 11.732 min Scan# 1096
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



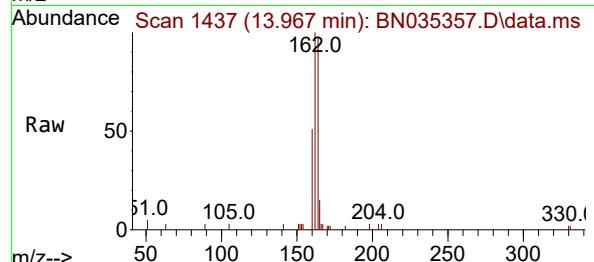
Tgt Ion:142 Resp: 3157
Ion Ratio Lower Upper
142 100
141 90.9 72.2 108.4
115 42.0 31.4 47.0



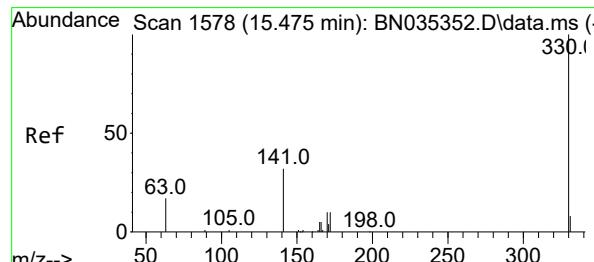
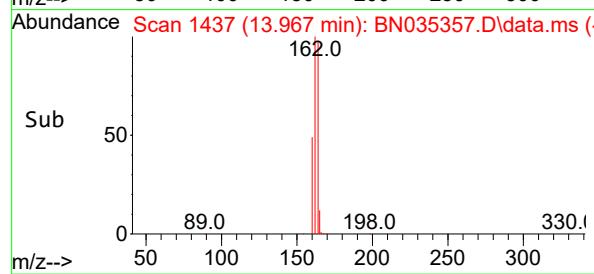
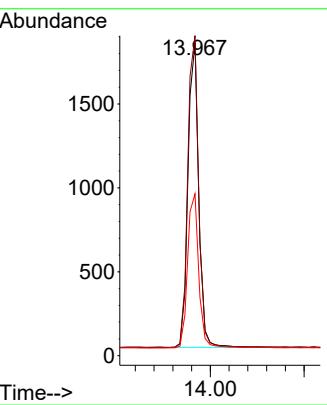


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

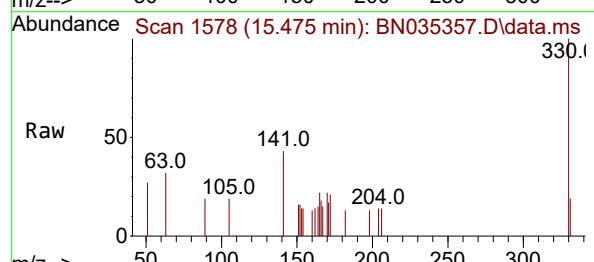
Instrument : BNA_N
ClientSampleId : ICVBN112724



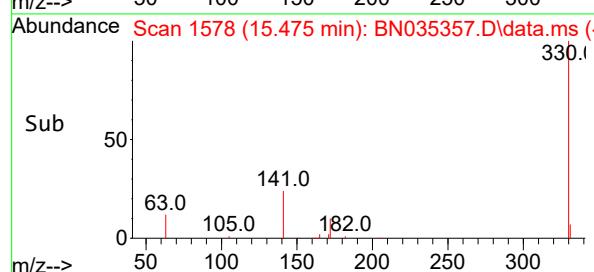
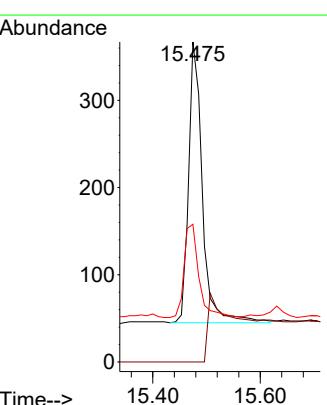
Tgt Ion:164 Resp: 2879
Ion Ratio Lower Upper
164 100
162 102.3 82.2 123.2
160 51.8 40.1 60.1

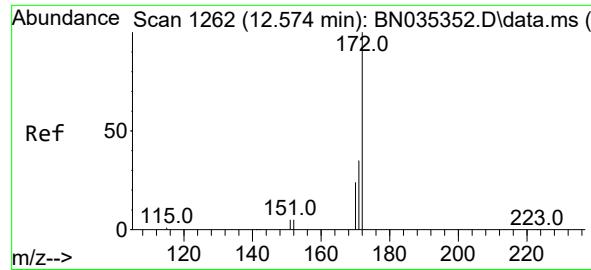


#14
2,4,6-Tribromophenol
Concen: 0.302 ng
RT: 15.475 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

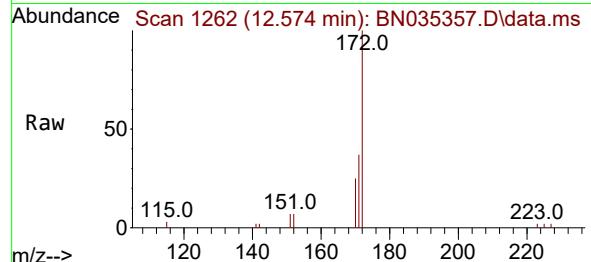


Tgt Ion:330 Resp: 617
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 34.7 26.6 40.0

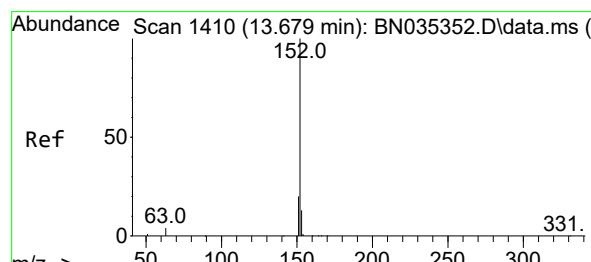
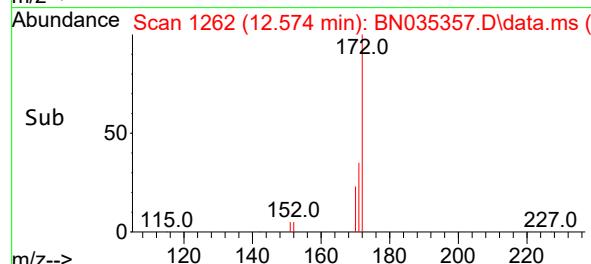
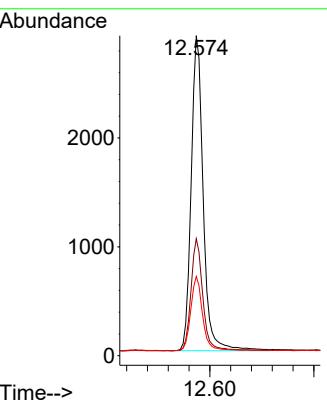




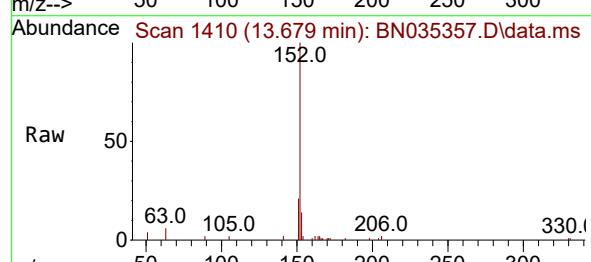
#15
2-Fluorobiphenyl
Concen: 0.427 ng
RT: 12.574 min Scan# 1
Instrument : BNA_N
Delta R.T. -0.000 min
Lab File: BN035357.D
ClientSampleId : ICBVN112724
Acq: 27 Nov 2024 20:21



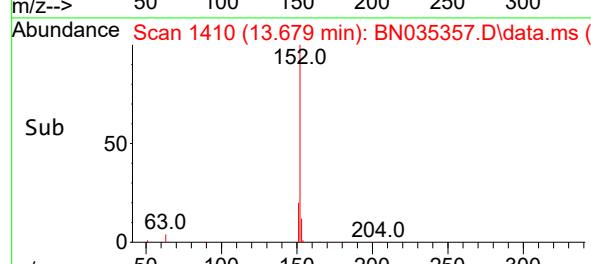
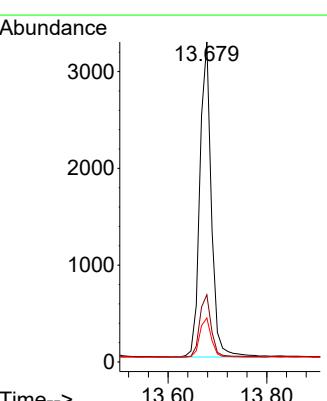
Tgt Ion:172 Resp: 4647
Ion Ratio Lower Upper
172 100
171 36.5 29.0 43.4
170 24.7 19.8 29.8

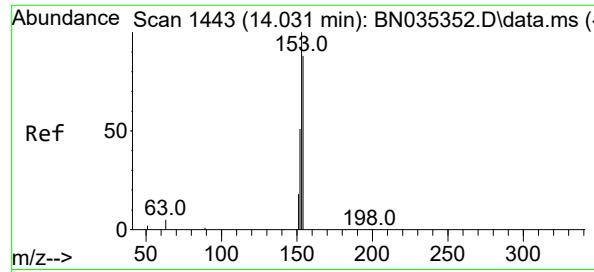


#16
Acenaphthylene
Concen: 0.435 ng
RT: 13.679 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

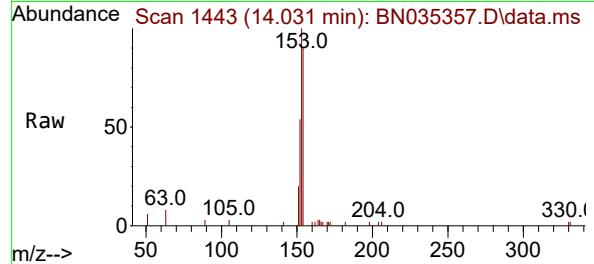


Tgt Ion:152 Resp: 5261
Ion Ratio Lower Upper
152 100
151 20.1 16.2 24.2
153 12.7 10.4 15.6

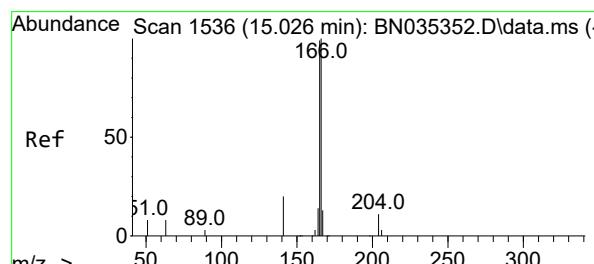
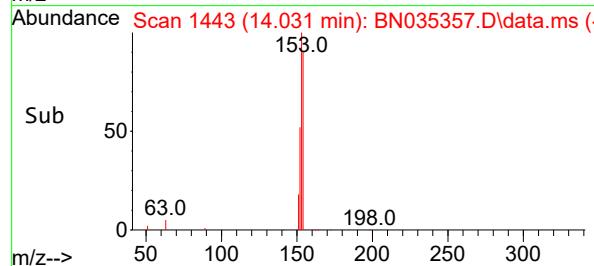
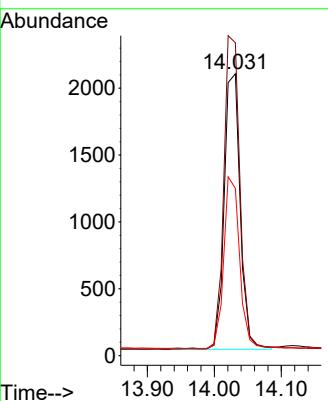




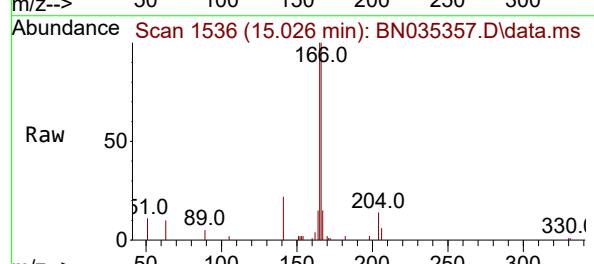
#17
Acenaphthene
Concen: 0.426 ng
RT: 14.031 min Scan# 1443
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21
Instrument: BNA_N
ClientSampleId: ICVBN112724



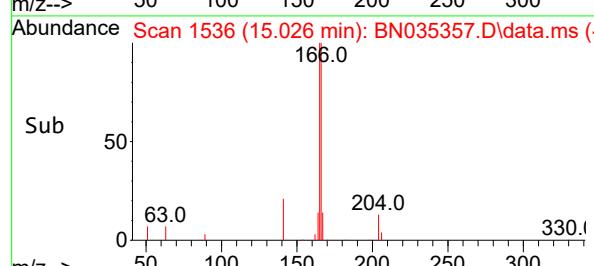
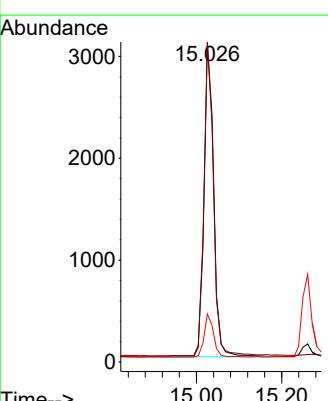
Tgt Ion:154 Resp: 3421
Ion Ratio Lower Upper
154 100
153 115.4 92.6 139.0
152 61.9 49.0 73.6

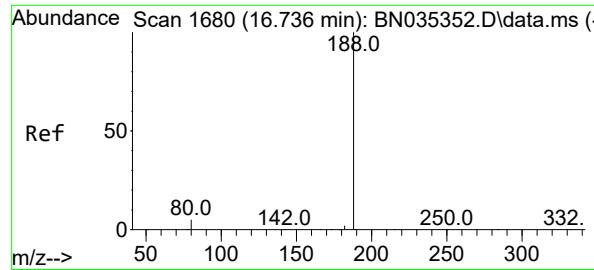


#18
Fluorene
Concen: 0.420 ng
RT: 15.026 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



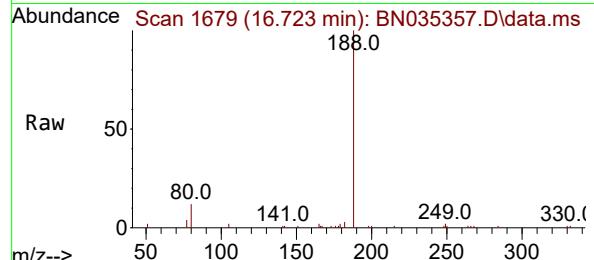
Tgt Ion:166 Resp: 4825
Ion Ratio Lower Upper
166 100
165 98.4 79.7 119.5
167 13.6 10.8 16.2



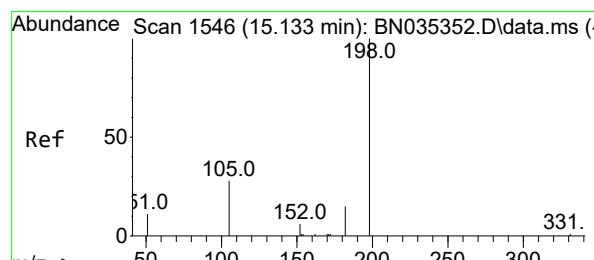
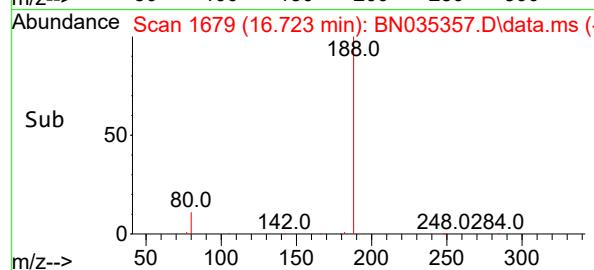
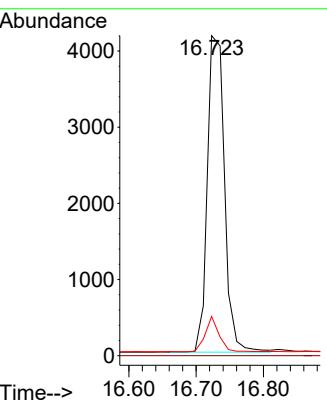


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

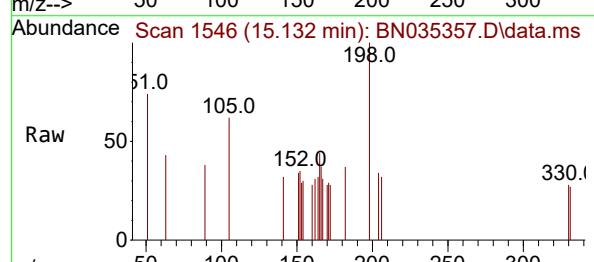
Instrument : BNA_N
 ClientSampleId : ICBN112724



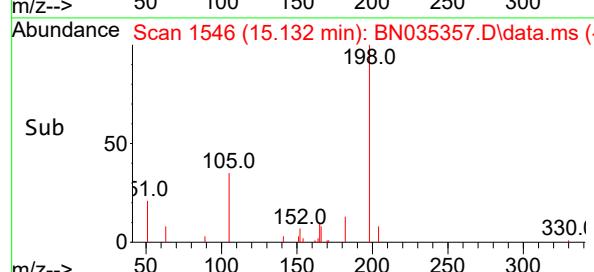
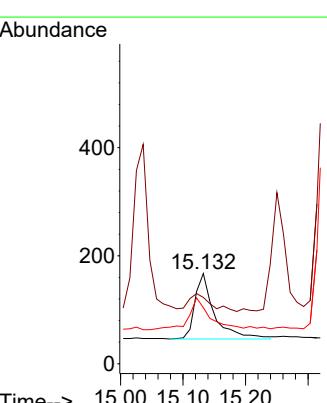
Tgt Ion:188 Resp: 7350
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 12.2 4.6 6.8#

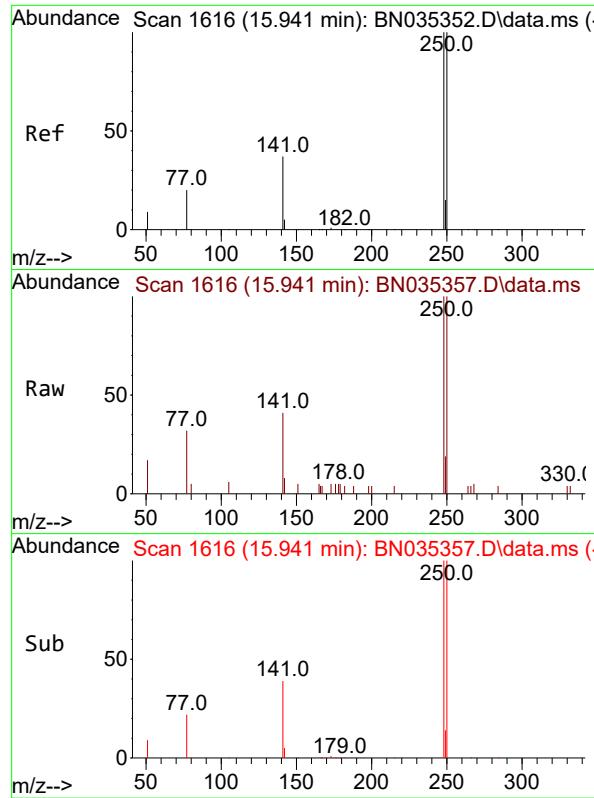


#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.364 ng
 RT: 15.132 min Scan# 1546
 Delta R.T. -0.001 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21



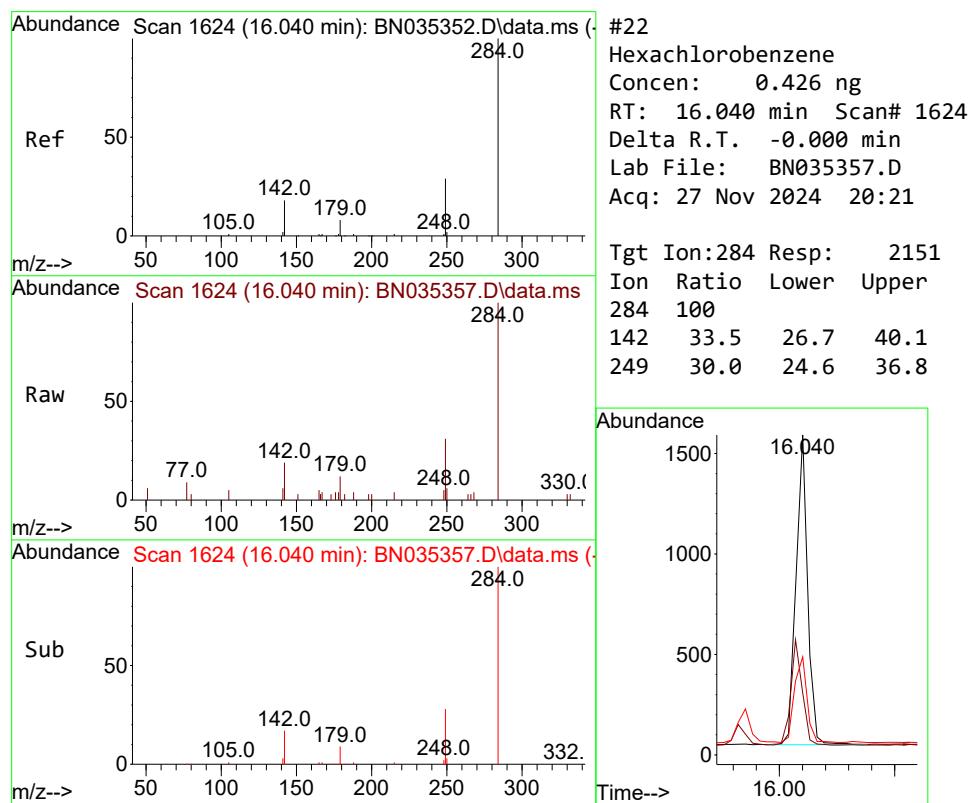
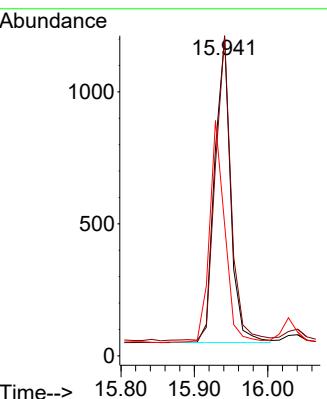
Tgt Ion:198 Resp: 263
 Ion Ratio Lower Upper
 198 100
 51 73.7 46.5 69.7#
 105 62.3 45.3 67.9





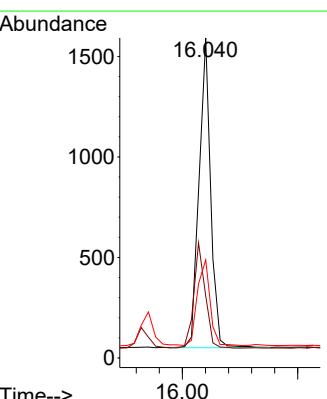
#21
 4-Bromophenyl-phenylether
 Concen: 0.405 ng
 RT: 15.941 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21
Instrument: BNA_N
ClientSampleId : ICVBN112724

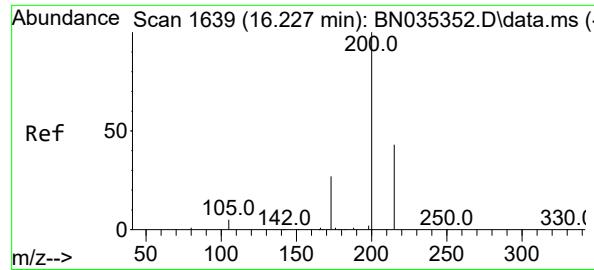
Tgt Ion:248 Resp: 1742
 Ion Ratio Lower Upper
 248 100
 250 100.3 80.6 120.8
 141 41.2 31.5 47.3



#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

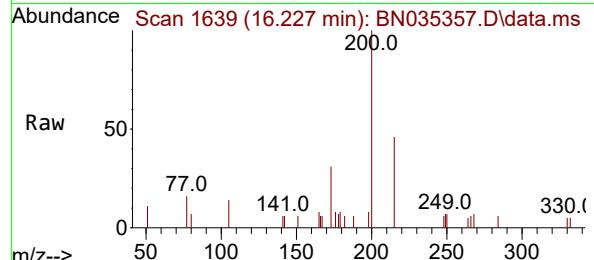
Tgt Ion:284 Resp: 2151
 Ion Ratio Lower Upper
 284 100
 142 33.5 26.7 40.1
 249 30.0 24.6 36.8



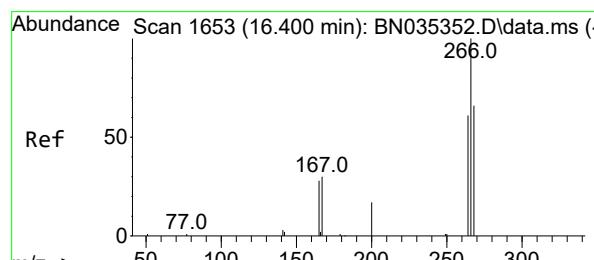
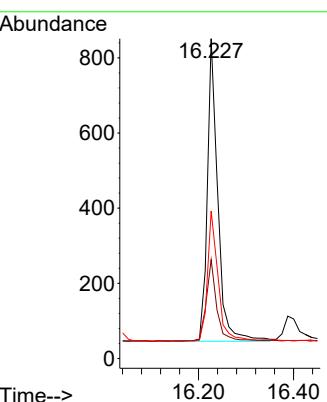
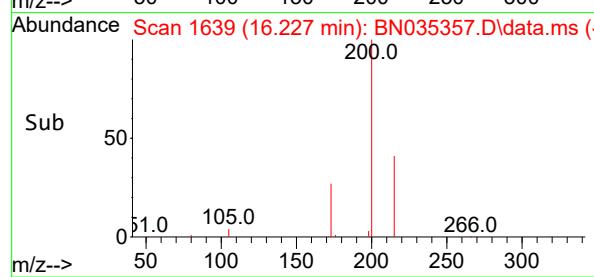


#23
Atrazine
Concen: 0.401 ng
RT: 16.227 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

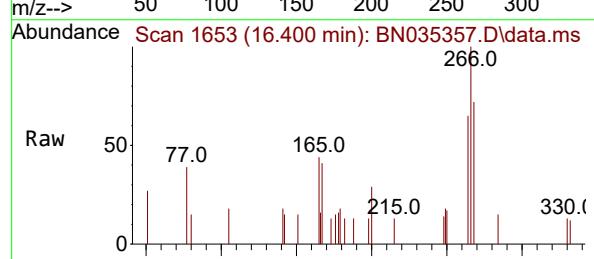
Instrument : BNA_N
ClientSampleId : ICVBN112724



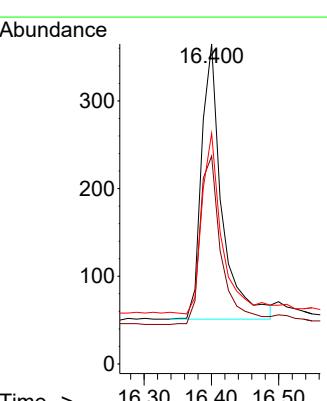
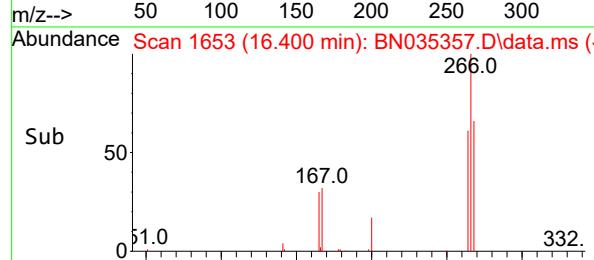
Tgt Ion:200 Resp: 1227
Ion Ratio Lower Upper
200 100
173 30.9 24.1 36.1
215 46.1 36.9 55.3

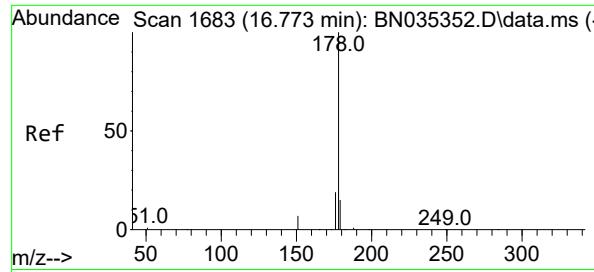


#24
Pentachlorophenol
Concen: 0.301 ng
RT: 16.400 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21

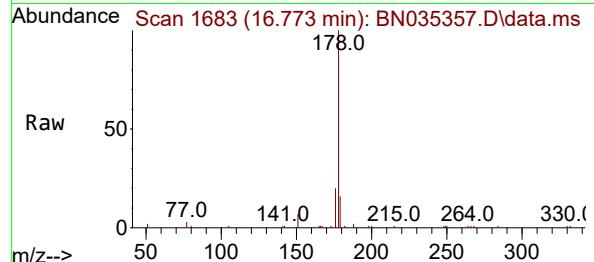


Tgt Ion:266 Resp: 662
Ion Ratio Lower Upper
266 100
264 65.0 42.3 63.5#
268 66.8 43.3 64.9#

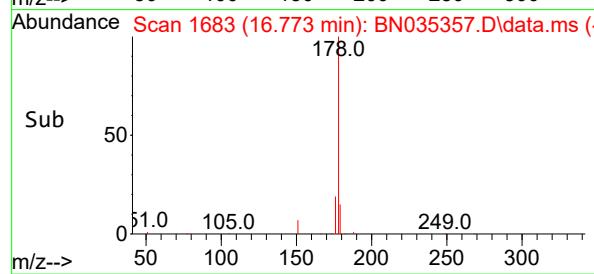
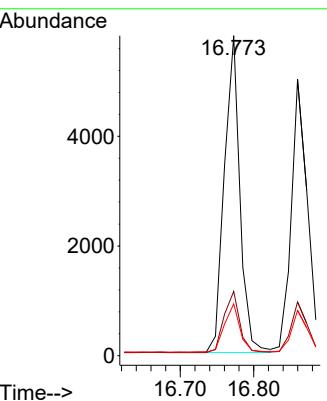




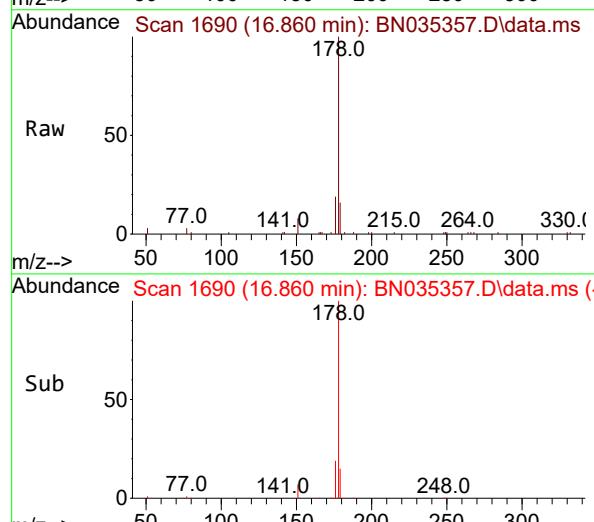
#25
Phenanthrene
Concen: 0.421 ng
RT: 16.773 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21
Instrument: BNA_N
ClientSampleId: ICVBN112724



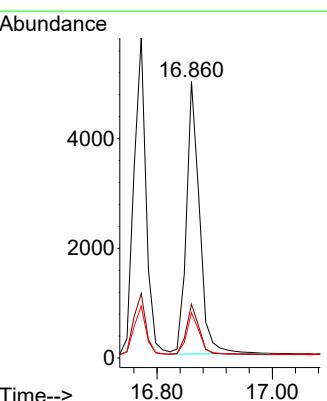
Tgt Ion:178 Resp: 8509
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.2
179 15.4 12.3 18.5

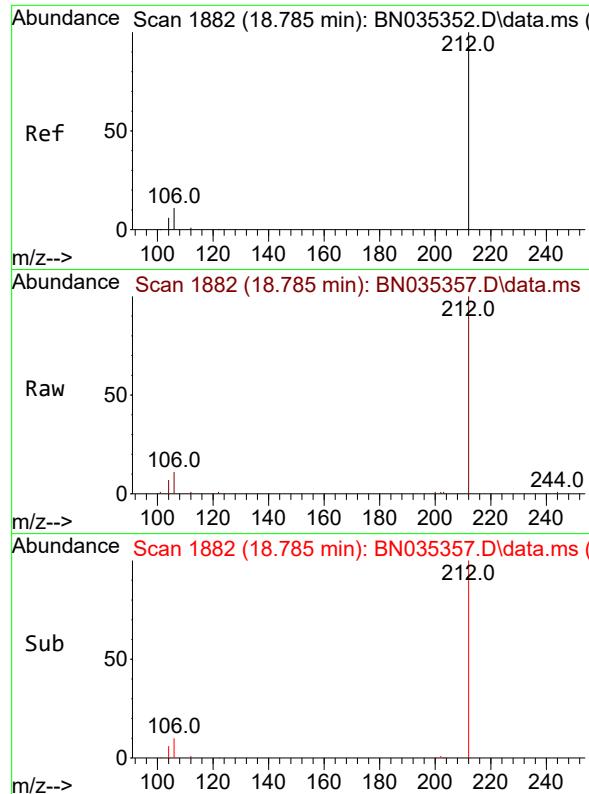


#26
Anthracene
Concen: 0.430 ng
RT: 16.860 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN035357.D
Acq: 27 Nov 2024 20:21



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

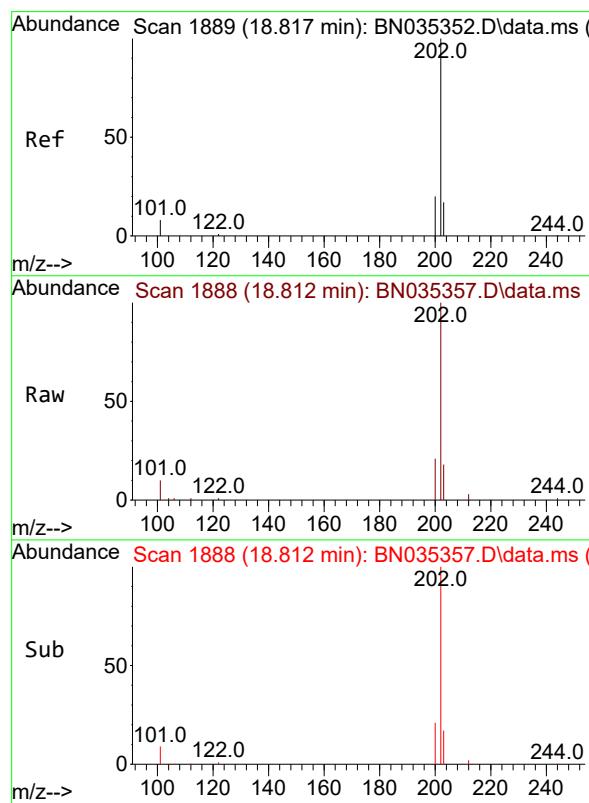
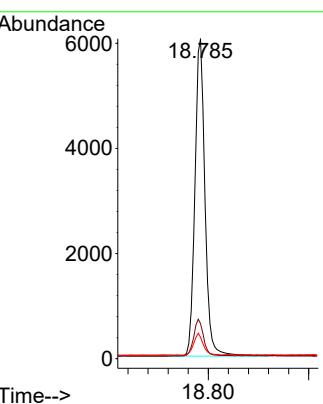




#27
 Fluoranthene-d10
 Concen: 0.404 ng
 RT: 18.785 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

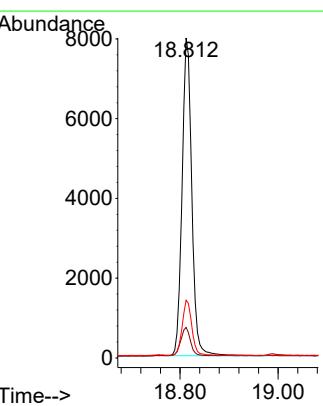
Instrument : BNA_N
 ClientSampleId : ICVBN112724

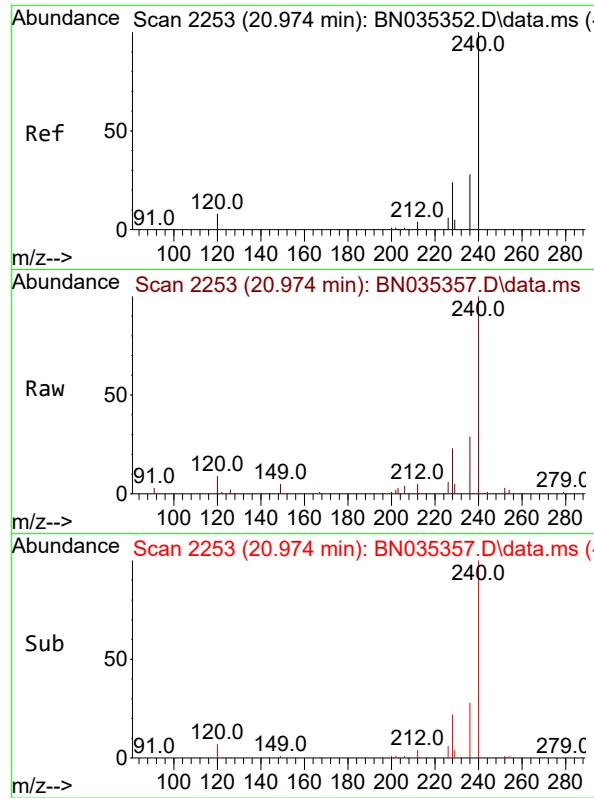
Tgt Ion:212 Resp: 8415
 Ion Ratio Lower Upper
 212 100
 106 11.3 9.2 13.8
 104 6.4 5.3 7.9



#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

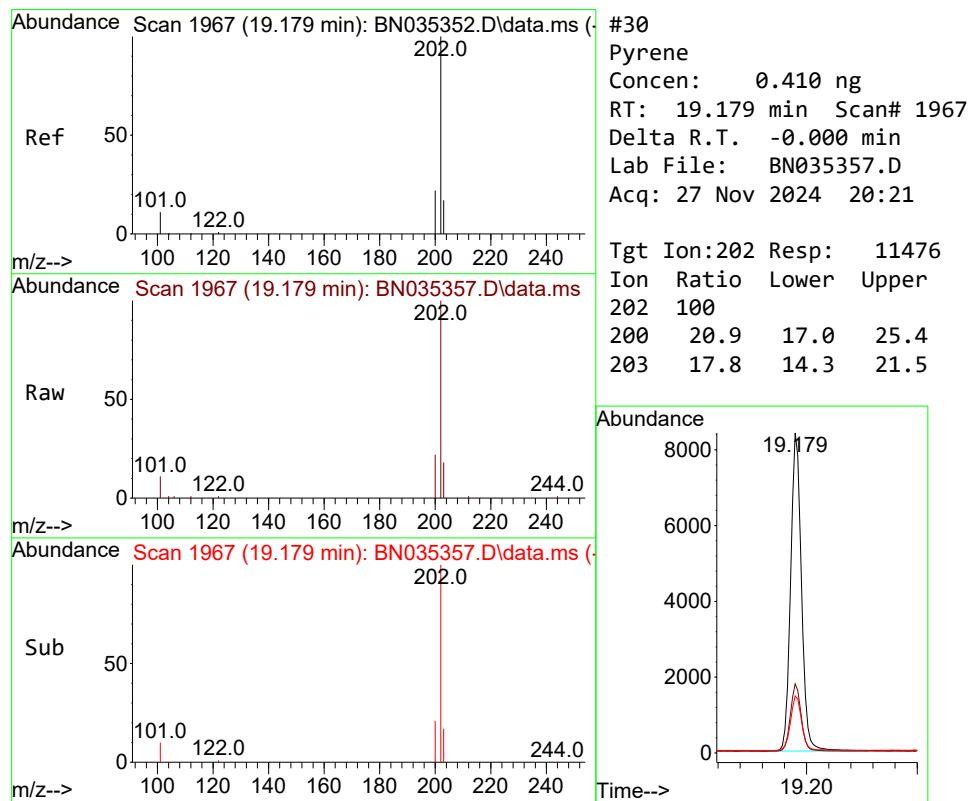
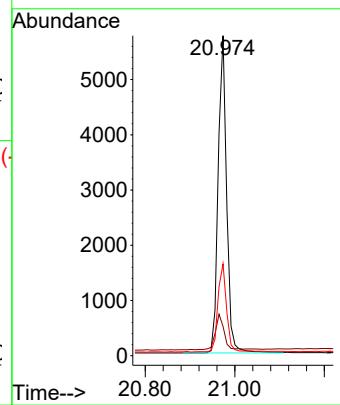




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

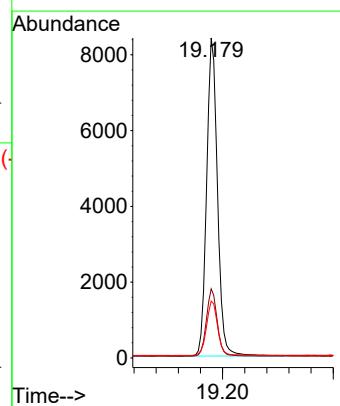
Instrument : BNA_N
 ClientSampleId : ICVBN112724

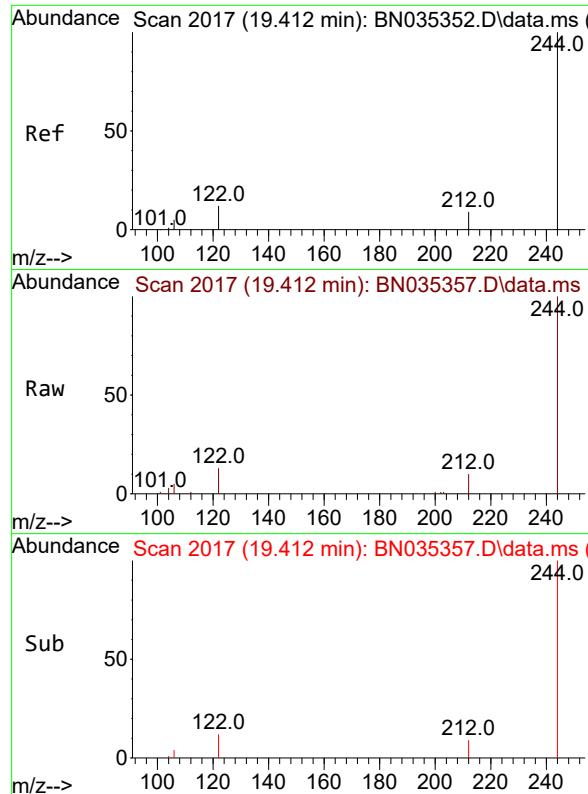
Tgt Ion:240 Resp: 7576
 Ion Ratio Lower Upper
 240 100
 120 9.1 7.9 11.9
 236 28.7 22.9 34.3



#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

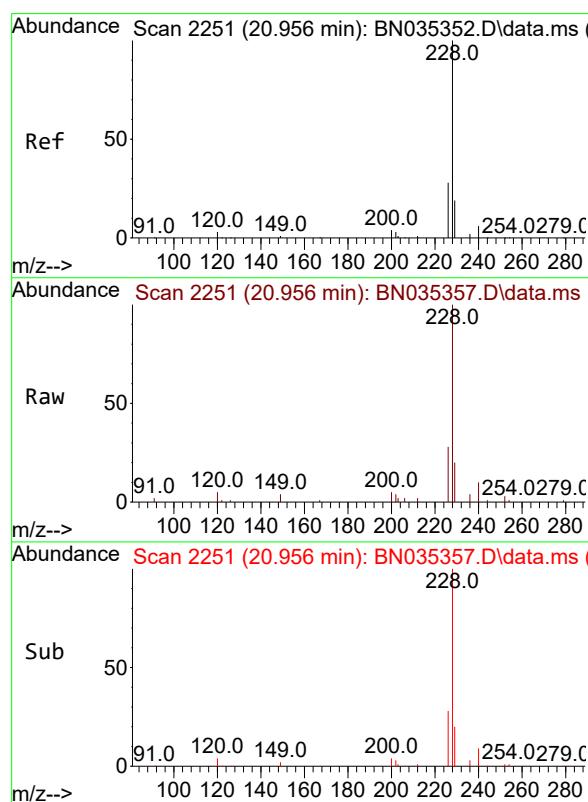
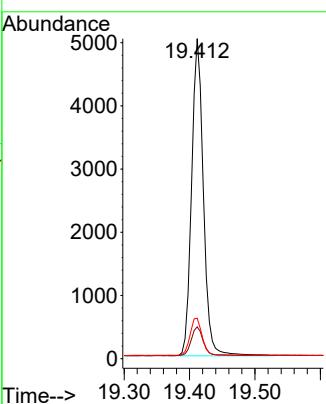




#31
 Terphenyl-d14
 Concen: 0.420 ng
 RT: 19.412 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

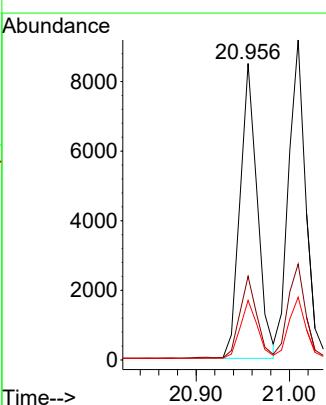
Instrument : BNA_N
 ClientSampleId : ICBN112724

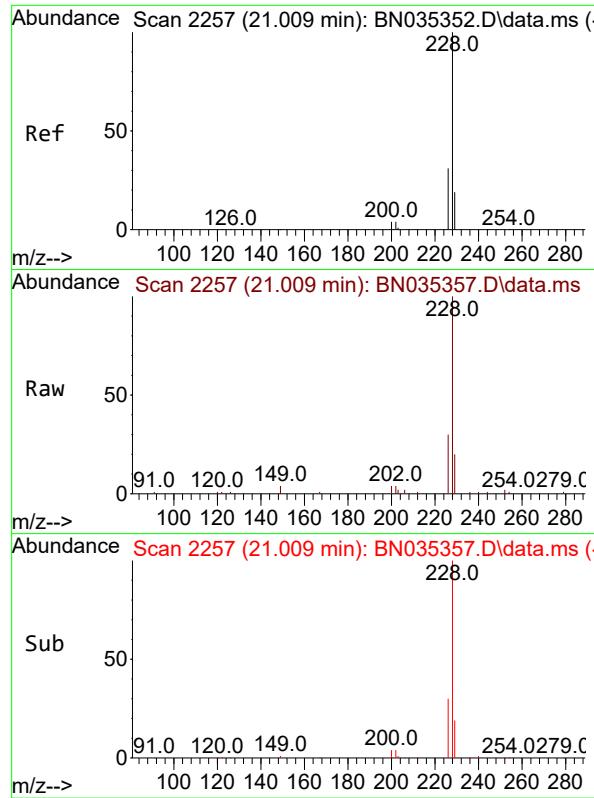
Tgt Ion:244 Resp: 6272
 Ion Ratio Lower Upper
 244 100
 212 9.9 8.1 12.1
 122 12.6 10.3 15.5



#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

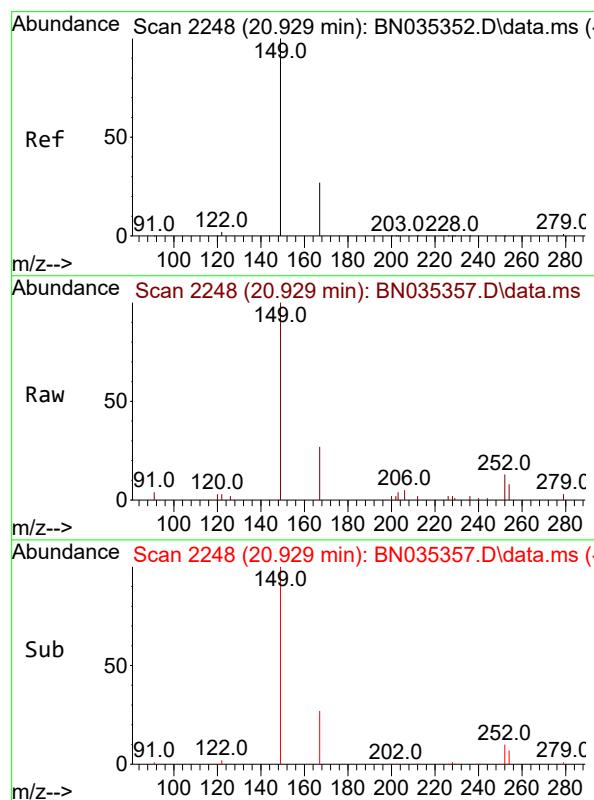
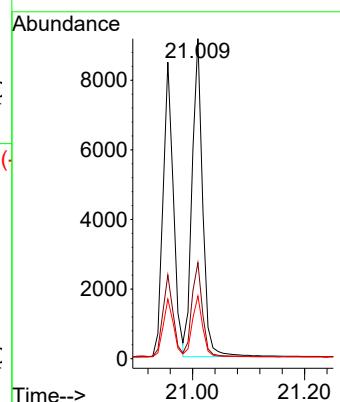




#33
 Chrysene
 Concen: 0.436 ng
 RT: 21.009 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

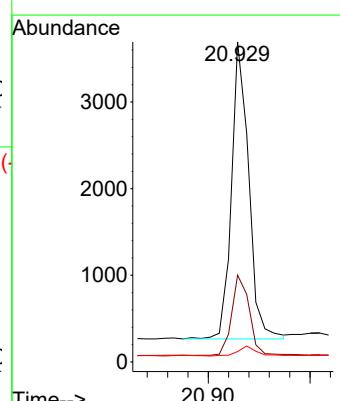
Instrument : BNA_N
 ClientSampleId : ICBVN112724

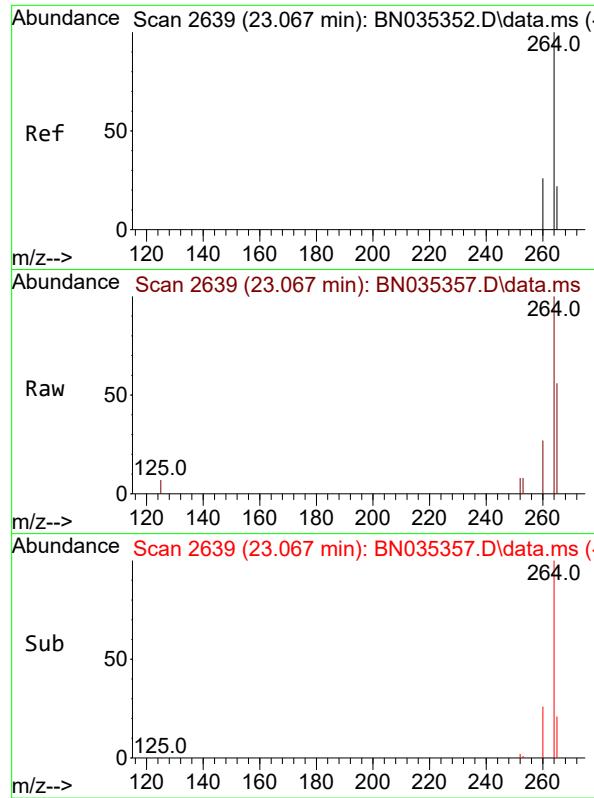
Tgt Ion:228 Resp: 11926
 Ion Ratio Lower Upper
 228 100
 226 30.0 24.6 37.0
 229 19.6 15.9 23.9



#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

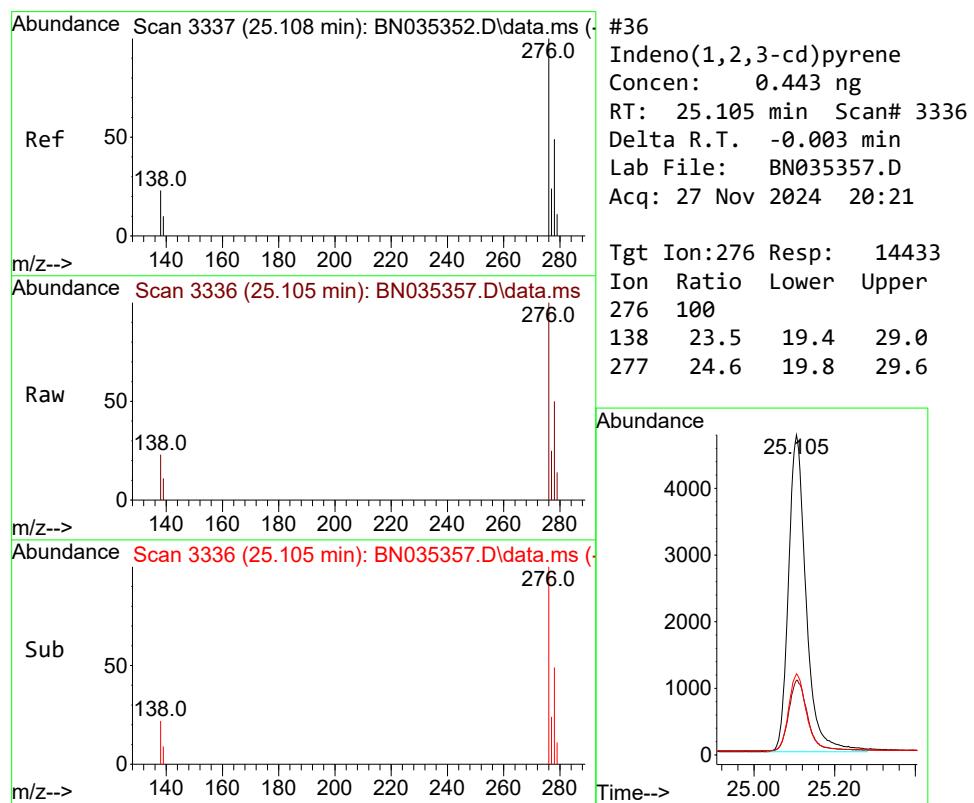
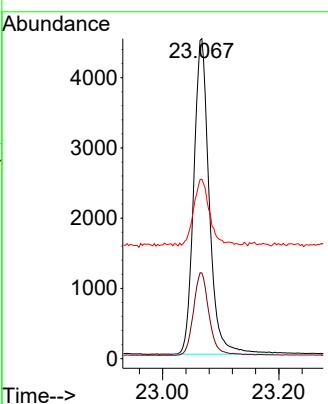




#35
 Perylene-d₁₂
 Concen: 0.400 ng
 RT: 23.067 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

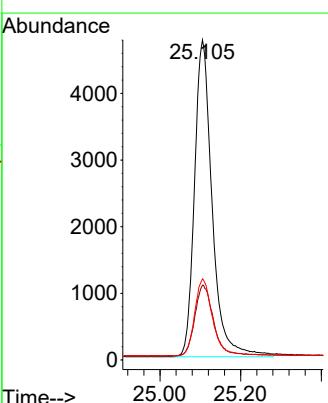
Instrument : BNA_N
 ClientSampleId : ICVBN112724

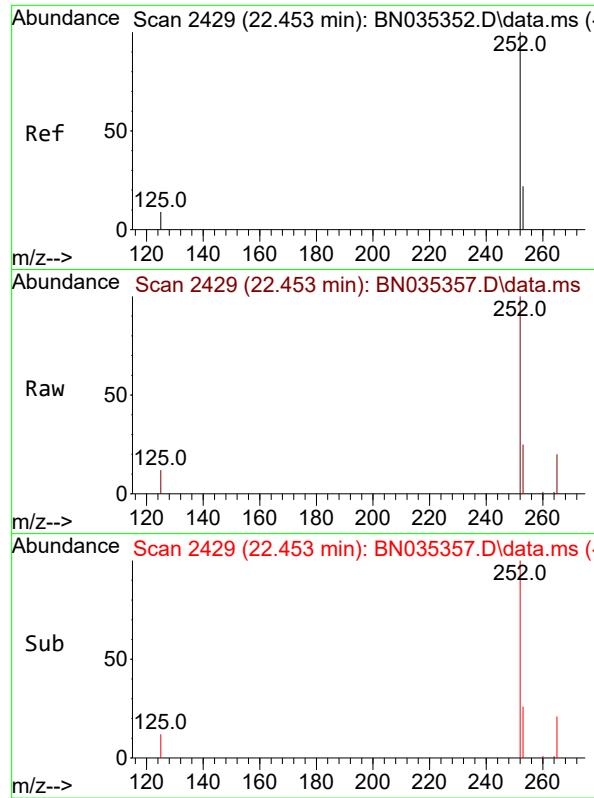
Tgt Ion:264 Resp: 8338
 Ion Ratio Lower Upper
 264 100
 260 26.8 21.4 32.2
 265 56.1 40.2 60.4



#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

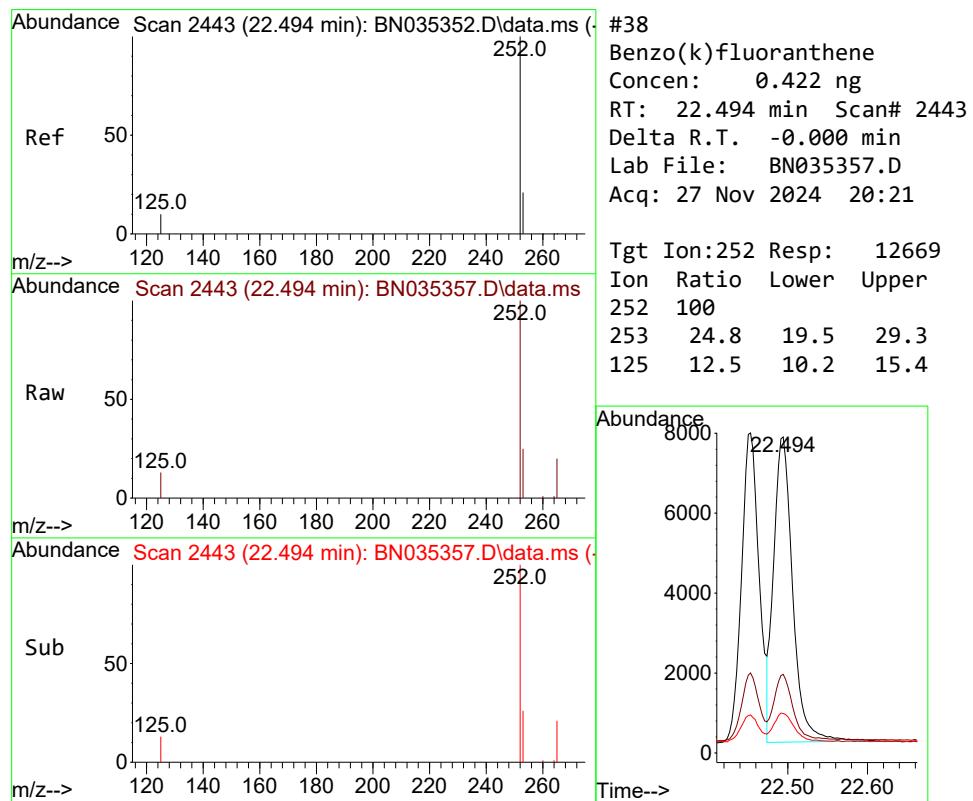
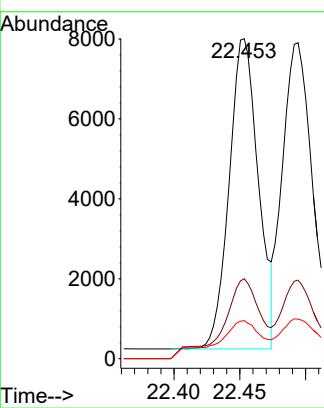




#37
 Benzo(b)fluoranthene
 Concen: 0.426 ng
 RT: 22.453 min Scan# 2
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

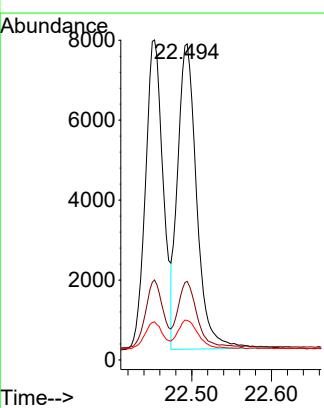
Instrument : BNA_N
 ClientSampleId : ICVBN112724

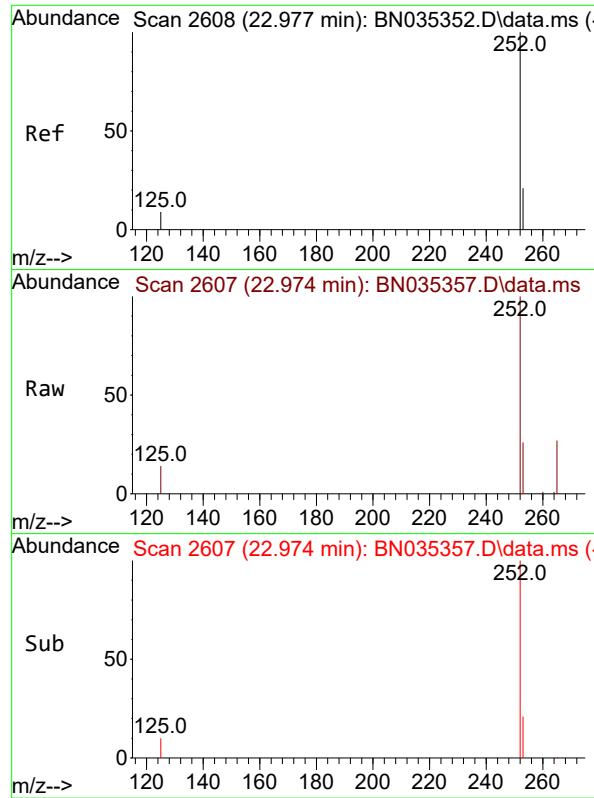
Tgt Ion:252 Resp: 12988
 Ion Ratio Lower Upper
 252 100
 253 25.0 19.6 29.4
 125 11.9 9.6 14.4



#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

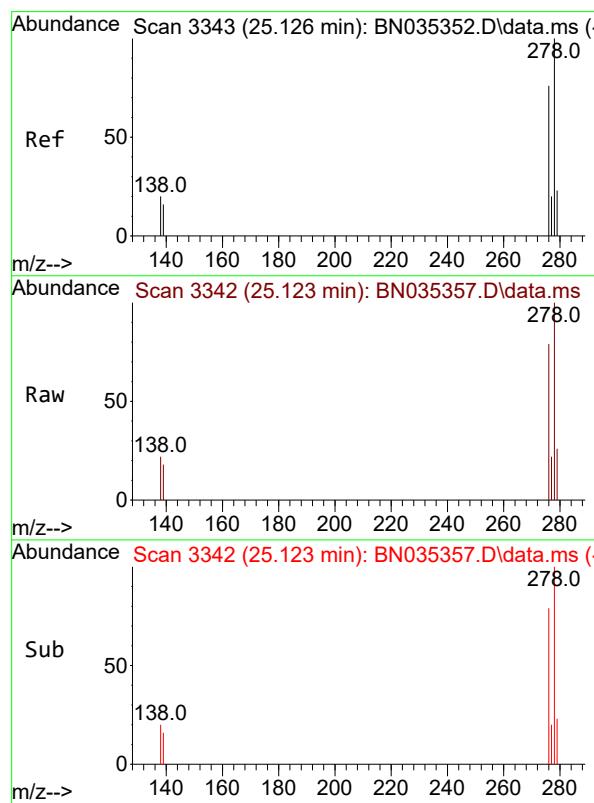
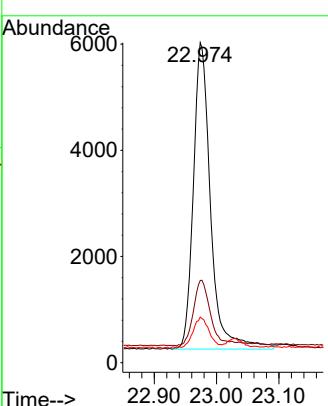
Tgt Ion:252 Resp: 12669
 Ion Ratio Lower Upper
 252 100
 253 24.8 19.5 29.3
 125 12.5 10.2 15.4





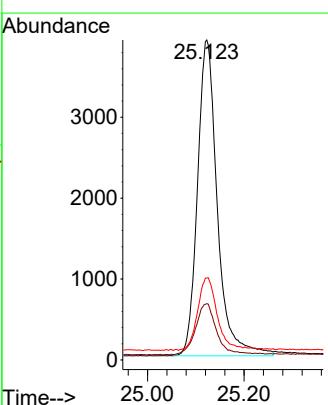
#39
 Benzo(a)pyrene
 Concen: 0.442 ng
 RT: 22.974 min Scan# 2
Instrument :
 Delta R.T. -0.003 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21
ClientSampleId :
 ICVBN112724

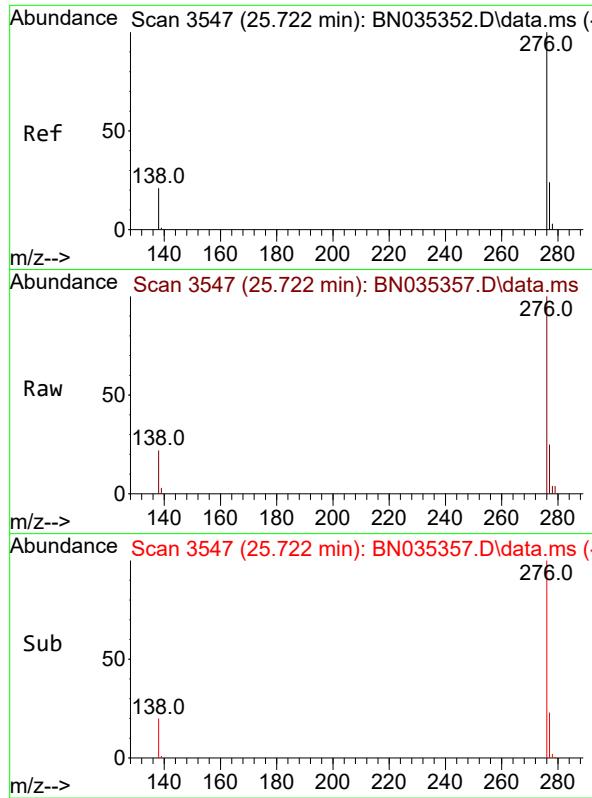
Tgt Ion:252 Resp: 11094
 Ion Ratio Lower Upper
 252 100
 253 25.7 20.2 30.4
 125 14.3 10.9 16.3



#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

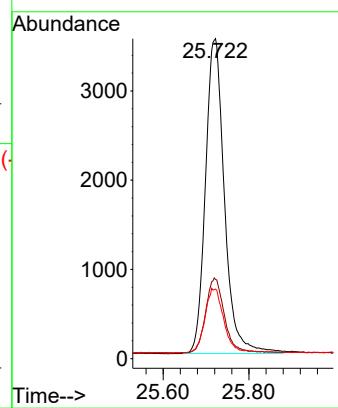




#41
 Benzo(g,h,i)perylene
 Concen: 0.404 ng
 RT: 25.722 min Scan# 3
 Delta R.T. -0.000 min
 Lab File: BN035357.D
 Acq: 27 Nov 2024 20:21

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035406.D
 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCCO.4
 Misc :
 ALS Vial : 2 Sample Multi plier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCCO.4

Quant Time: Dec 03 17:45:31 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

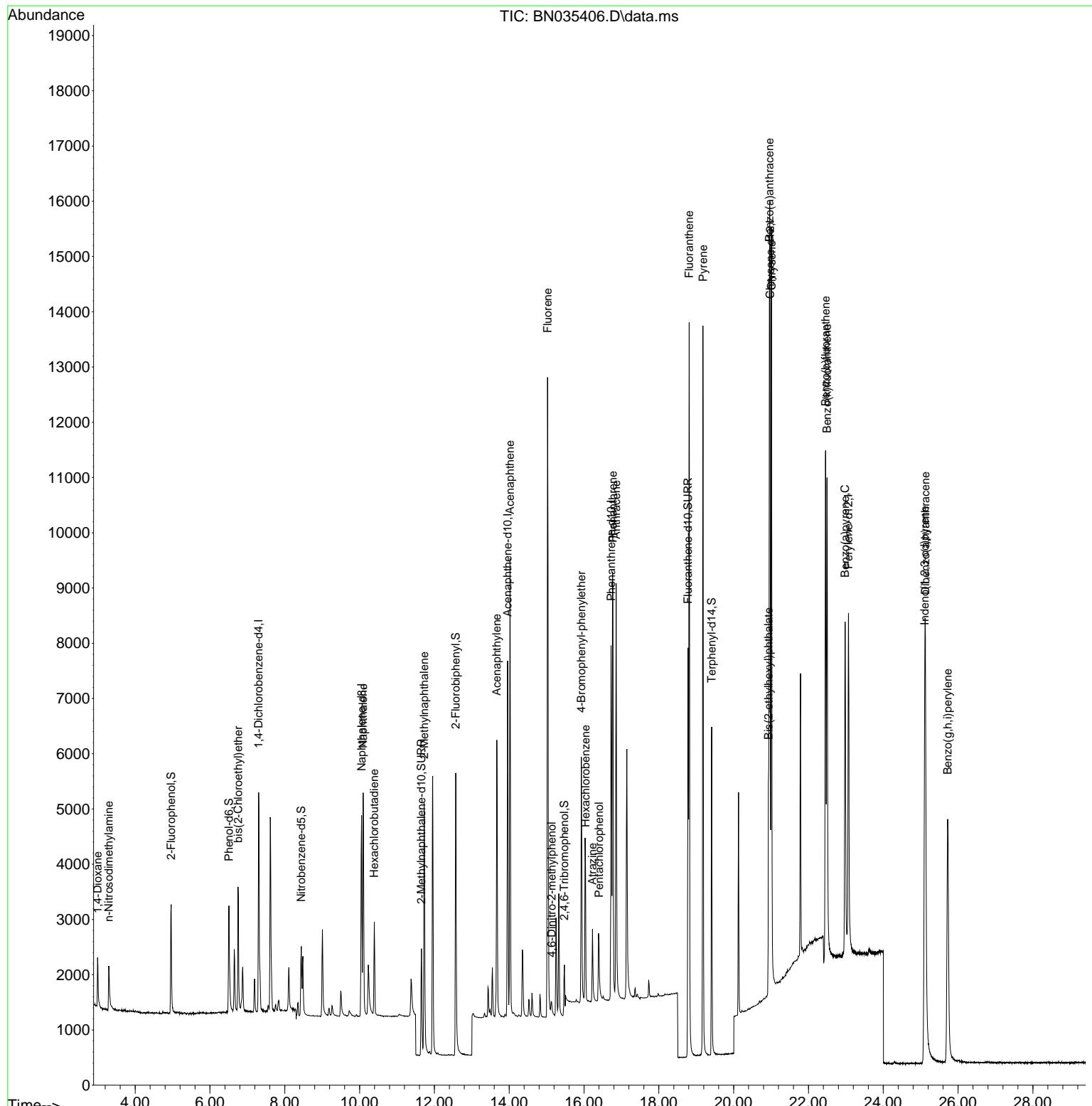
Compound	R. T.	Ql on	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1, 4-Di chlorobenzene-d4	7. 300	152	2015	0. 400	ng	0. 00
7) Naphthalene-d8	10. 052	136	5135	0. 400	ng	# 0. 00
13) Acenaphthene-d10	13. 957	164	3625	0. 400	ng	-0. 01
19) Phenanthrene-d10	16. 723	188	8862	0. 400	ng	#-0. 01
29) Chrysene-d12	20. 974	240	8251	0. 400	ng	0. 00
35) Perylene-d12	23. 070	264	7832	0. 400	ng	0. 00
System Monotoring Compounds						
4) 2-Fluorophenol	4. 960	112	1808	0. 359	ng	0. 00
5) Phenol -d6	6. 506	99	2219	0. 366	ng	0. 00
8) Nitrobenzene-d5	8. 440	82	1450	0. 462	ng	0. 00
11) 2-Methyl naphthalene-d10	11. 651	152	3083	0. 384	ng	0. 00
14) 2, 4, 6-Tribromophenol	15. 475	330	916	0. 356	ng	0. 00
15) 2-Fluorobi phenyl	12. 569	172	5574	0. 407	ng	0. 00
27) Fluoranthene-d10	18. 780	212	9013	0. 359	ng	0. 00
31) Terphenyl -d14	19. 412	244	6327	0. 389	ng	0. 00
Target Compounds						
2) 1, 4-Dioxane	2. 996	88	735	0. 382	ng	98
3) n-Nitrosodi methyl amine	3. 292	42	603	0. 376	ng	# 99
6) bis(2-Chloroethyl)ether	6. 752	93	1920	0. 377	ng	100
9) Naphthalene	10. 095	128	5329	0. 393	ng	99
10) Hexachlorobutadiene	10. 394	225	1309	0. 419	ng	# 99
12) 2-Methyl naphthalene	11. 727	142	3781	0. 390	ng	99
16) Acenaphthylene	13. 668	152	5887	0. 387	ng	100
17) Acenaphthene	14. 021	154	3907	0. 387	ng	98
18) Fluorene	15. 026	166	5593	0. 387	ng	99
20) 4, 6-Dinitro-2-methyl ph...	15. 133	198	291	0. 334	ng	# 83
21) 4-Bromophenyl -phenyl ether	15. 929	248	2060	0. 397	ng	# 75
22) Hexachlorobenzene	16. 040	284	2548	0. 419	ng	98
23) Atrazine	16. 227	200	1209	0. 328	ng	98
24) Pentachlorophenol	16. 400	266	848	0. 320	ng	# 84
25) Phenanthrene	16. 773	178	9564	0. 393	ng	100
26) Anthracene	16. 860	178	8243	0. 374	ng	100
28) Fluoranthene	18. 812	202	12056	0. 367	ng	100
30) Pyrene	19. 179	202	12183	0. 400	ng	100
32) Benzo(a)anthracene	20. 956	228	10317	0. 357	ng	99
33) Chrysene	21. 009	228	12005	0. 403	ng	100
34) Bis(2-ethyl hexyl)phtha...	20. 929	149	3769	0. 331	ng	99
36) Indeno(1, 2, 3-cd)pyrene	25. 108	276	11257	0. 368	ng	98
37) Benzo(b)fluoranthene	22. 456	252	11172	0. 390	ng	99
38) Benzo(k)fluoranthene	22. 497	252	11663	0. 414	ng	99
39) Benzo(a)pyrene	22. 980	252	9142	0. 387	ng	98
40) Dibenz(a, h)anthracene	25. 126	278	8667	0. 359	ng	99
41) Benzo(g, h, i)perylene	25. 722	276	9676	0. 383	ng	100

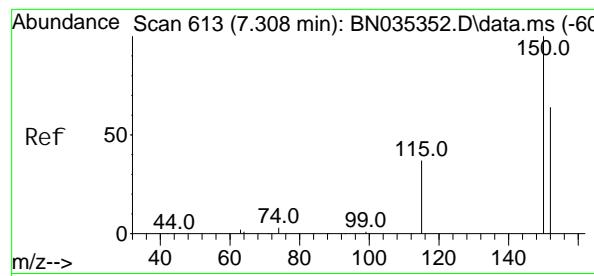
(#) = qual ifier out of range (m) = manual integration (+) = si gnals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
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 Acq On : 03 Dec 2024 16:35
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

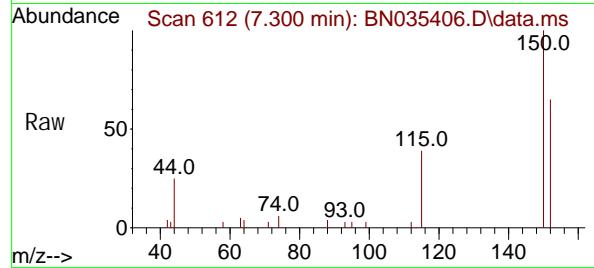
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration



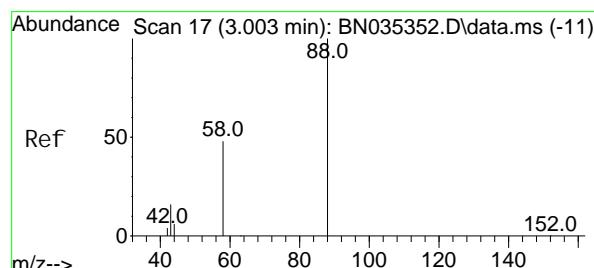
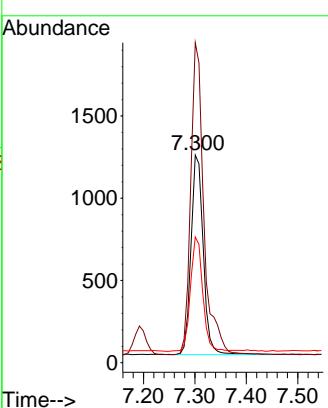
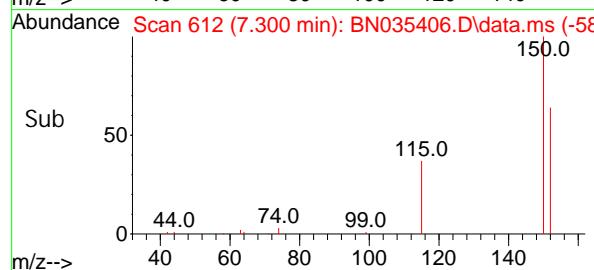


#1
1, 4-Di chl orobenzene-d4
Concen: 0.400 ng
RT: 7.300 min Scan# 6
Delta R. T. -0.008 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

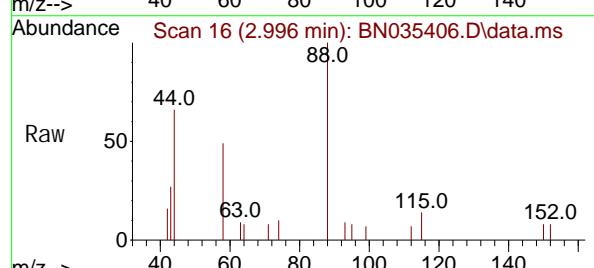
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



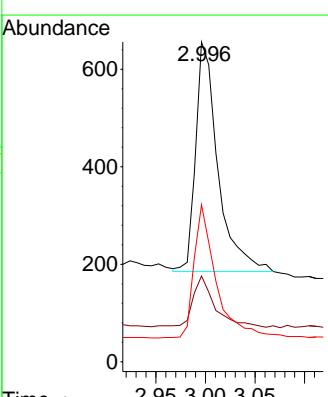
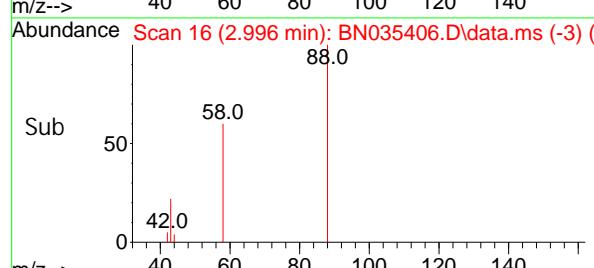
Tgt Ion: 152 Resp: 2015
Ion Ratio Lower Upper
152 100
150 154.1 124.0 186.0
115 60.6 49.6 74.4

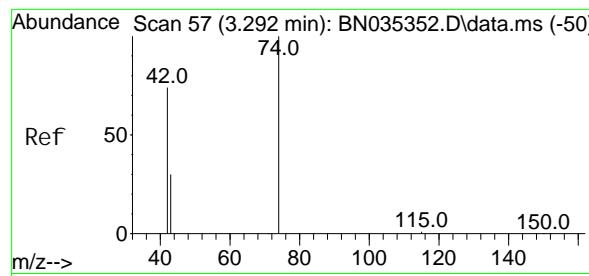


#2
1, 4-Di oxane
Concen: 0.382 ng
RT: 2.996 min Scan# 16
Delta R. T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



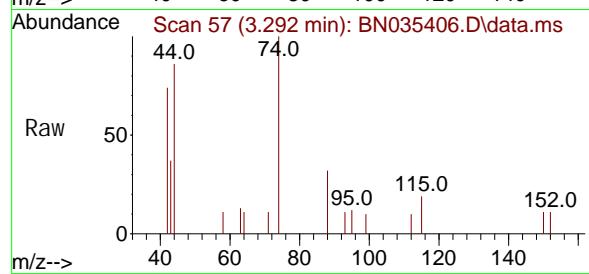
Tgt Ion: 88 Resp: 735
Ion Ratio Lower Upper
88 100
43 22.2 17.2 25.8
58 57.3 44.5 66.7



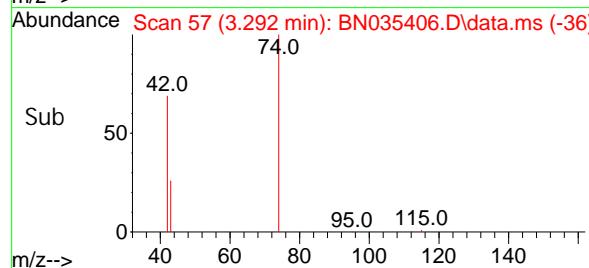
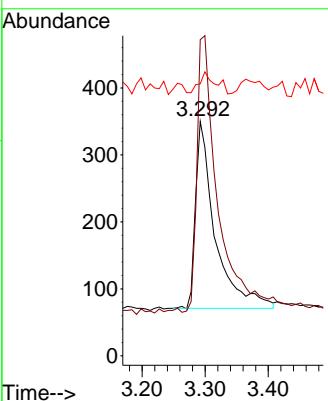


#3
n-Ni trosodi methyl ami ne
Concen: 0.376 ng
RT: 3.292 min Scan# 5
Delta R. T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

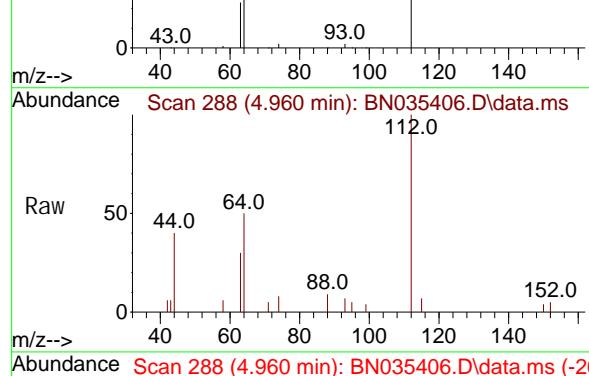
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



Tgt Ion: 42 Resp: 603
Ion Ratio Lower Upper
42 100
74 156.4 124.9 187.3
44 9.0 2.2 3.4#

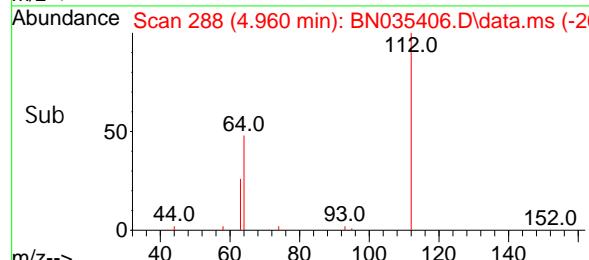
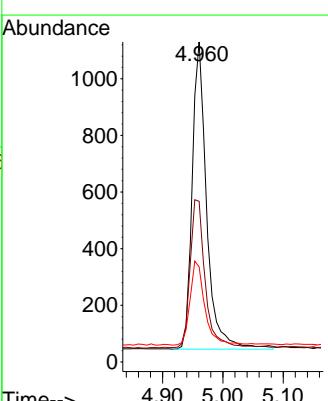


#4
2-Fluorophenol
Concen: 0.359 ng
RT: 4.960 min Scan# 288
Delta R. T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



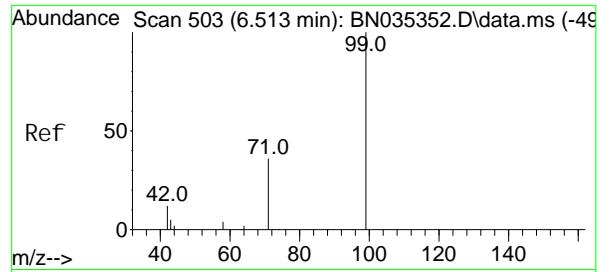
Tgt Ion: 112 Resp: 1808

Ion Ratio Lower Upper
112 100
64 50.3 39.8 59.8
63 28.2 21.0 31.6



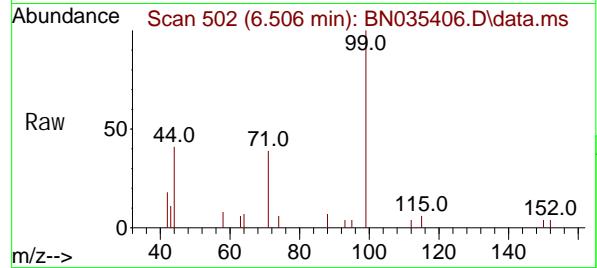
Sub

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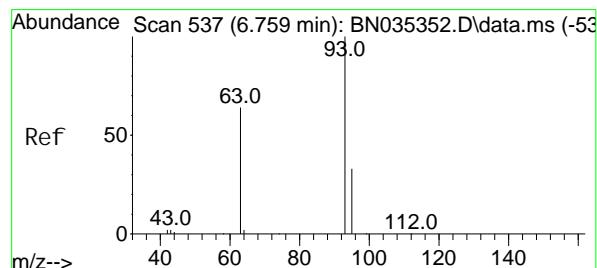
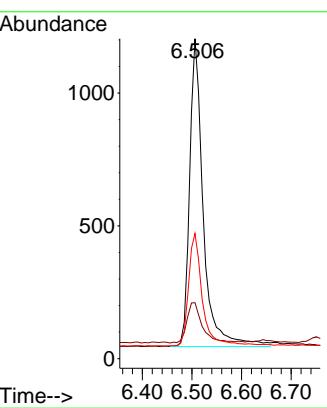
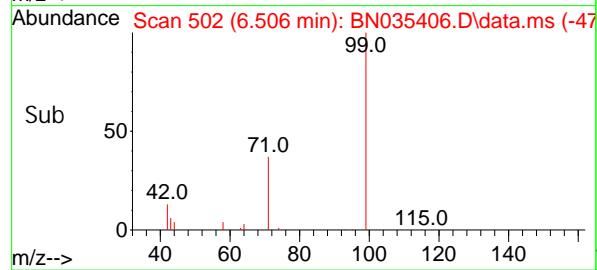


#5
Phenol -d6
Concen: 0.366 ng
RT: 6.506 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

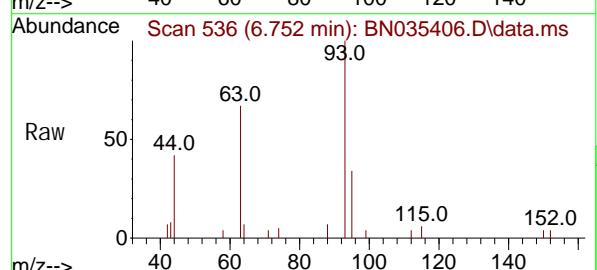
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



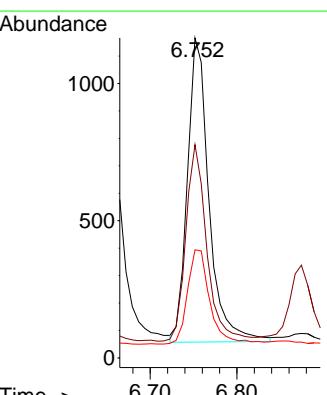
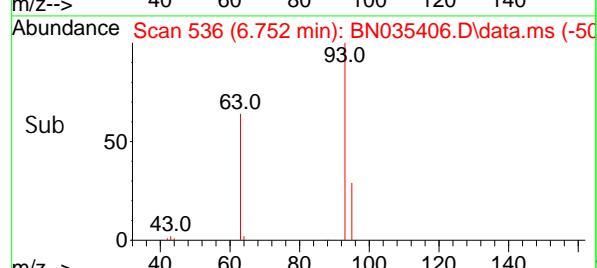
Tgt Ion: 99 Resp: 2219
Ion Ratio Lower Upper
99 100
42 14.9 11.4 17.2
71 37.3 29.3 43.9

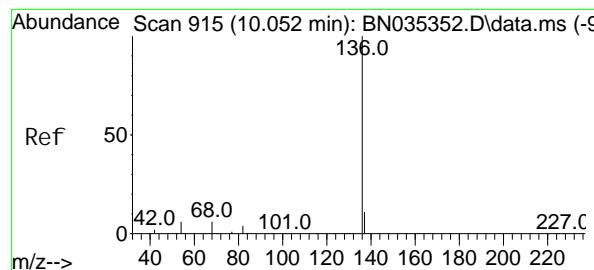


#6
bis(2-Chloroethyl)ether
Concen: 0.377 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



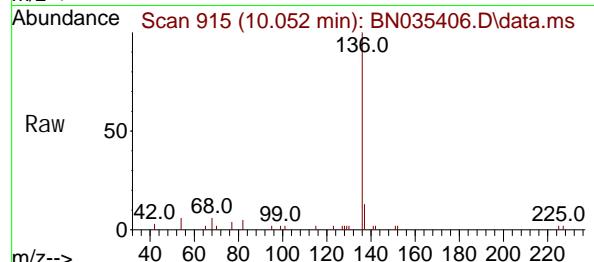
Tgt Ion: 93 Resp: 1920
Ion Ratio Lower Upper
93 100
63 62.6 50.4 75.6
95 32.1 25.7 38.5



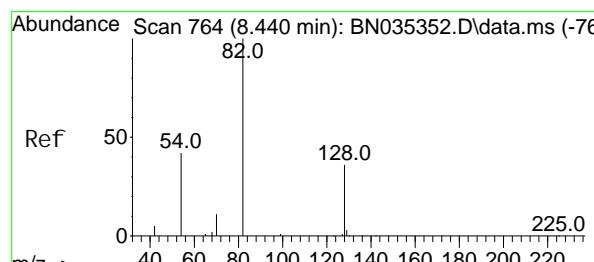
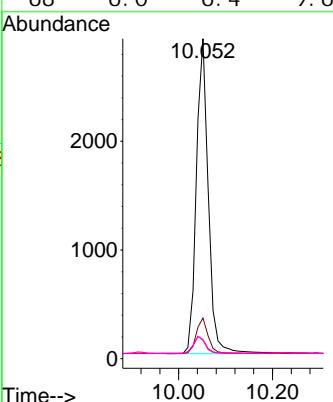
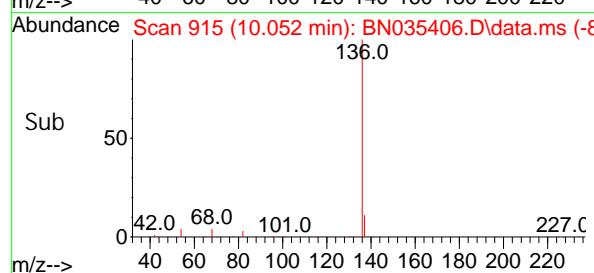


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

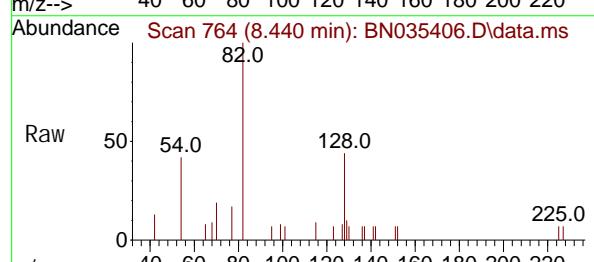
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



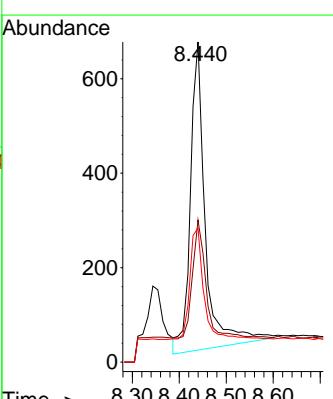
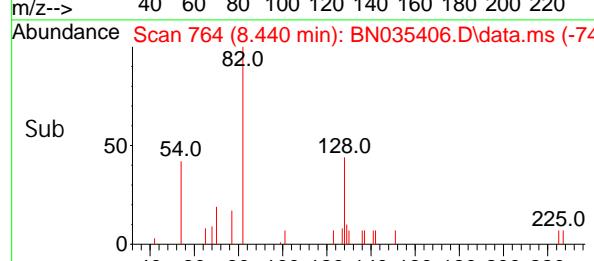
Tgt Ion: 136 Resp: 5135
 Ion Ratio Lower Upper
 136 100
 137 12.7 10.2 15.2
 54 5.8 6.1 9.1#
 68 6.0 6.4 9.6#

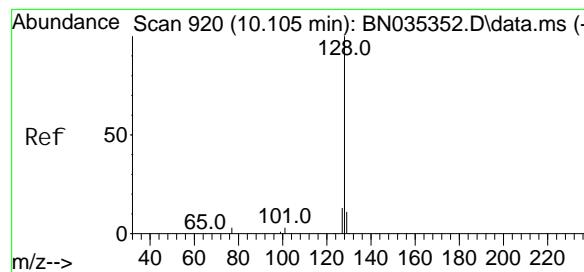


#8
 Ni trobenzene-d5
 Concen: 0.462 ng
 RT: 8.440 min Scan# 764
 Delta R.T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35



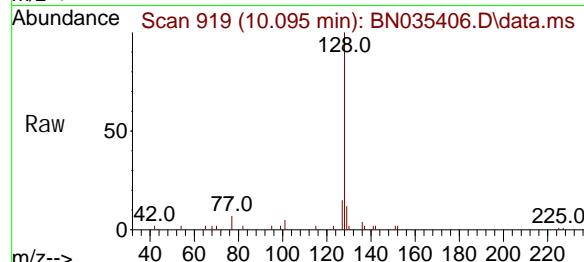
Tgt Ion: 82 Resp: 1450
 Ion Ratio Lower Upper
 82 100
 128 44.4 33.4 50.0
 54 41.9 36.7 55.1



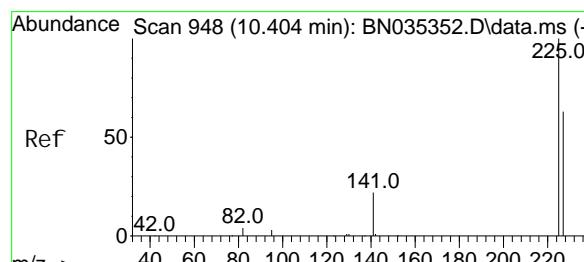
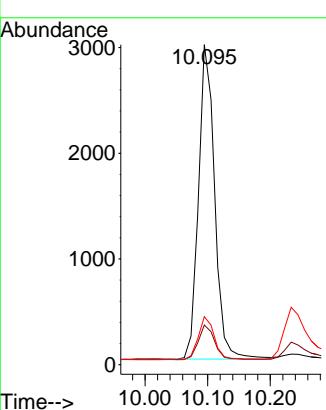
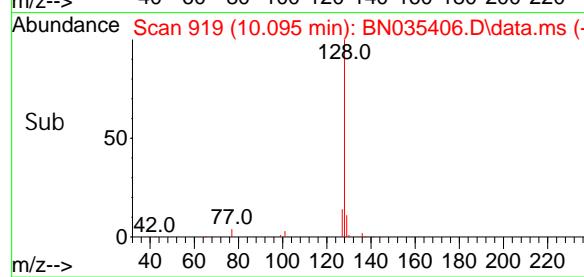


#9
Naphthalene
Concen: 0.393 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

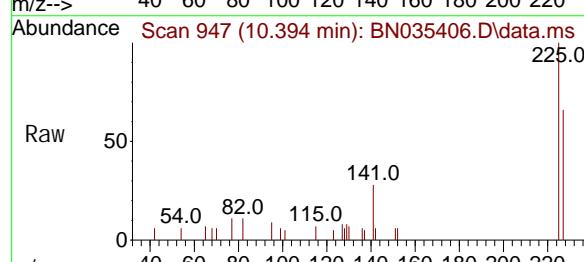
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



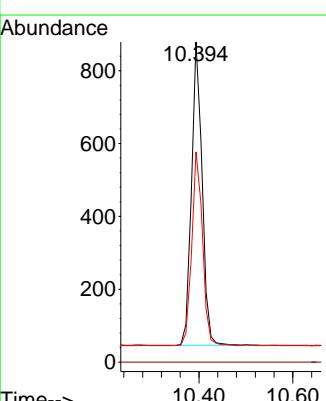
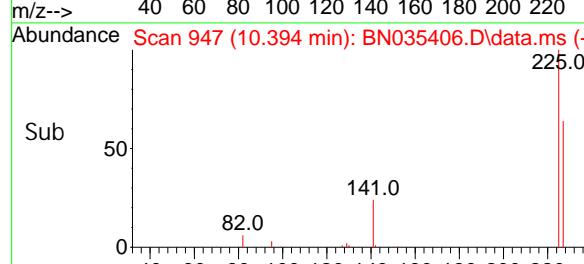
Tgt Ion: 128 Resp: 5329
Ion Ratio Lower Upper
128 100
129 12.4 9.8 14.6
127 15.0 11.4 17.2

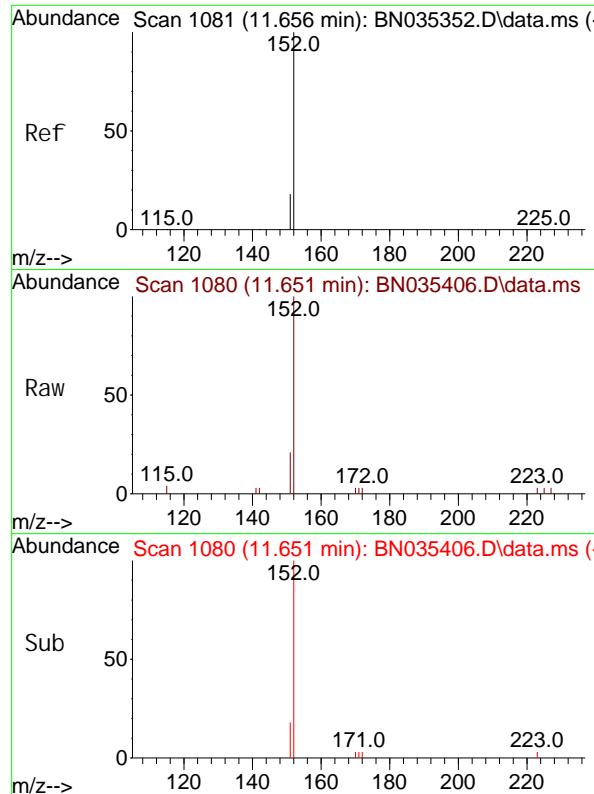


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



Tgt Ion: 225 Resp: 1309
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 51.3 76.9

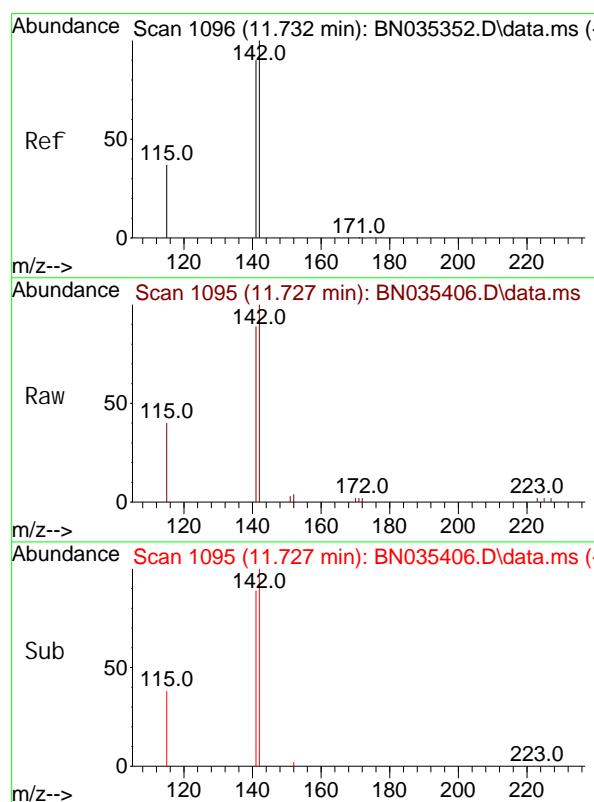
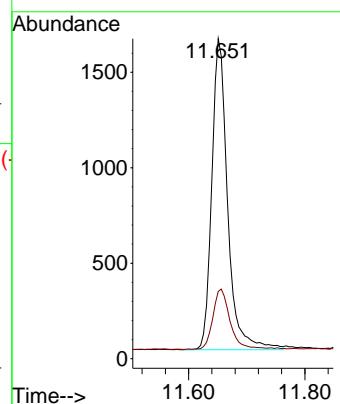




#11
2-Methyl naphthalene-d10
Concen: 0.384 ng
RT: 11.651 min Scan# 1081
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

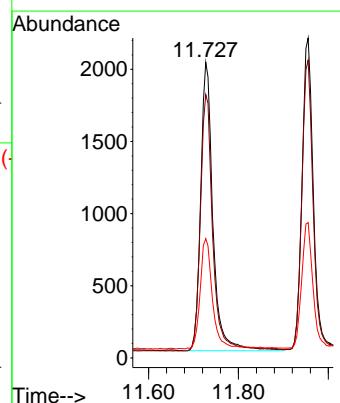
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ClientSampleId : SSTDCCC0.4

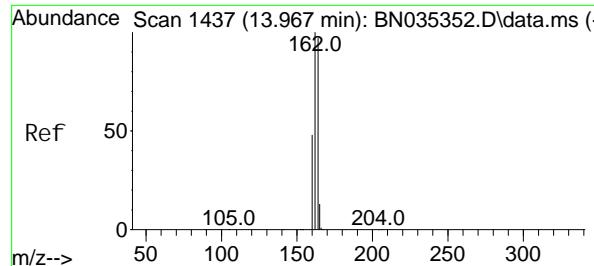
Tgt Ion: 152 Resp: 3083
Ion Ratio Lower Upper
152 100
151 21.4 16.6 25.0



#12
2-Methyl naphthalene
Concen: 0.390 ng
RT: 11.727 min Scan# 1095
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

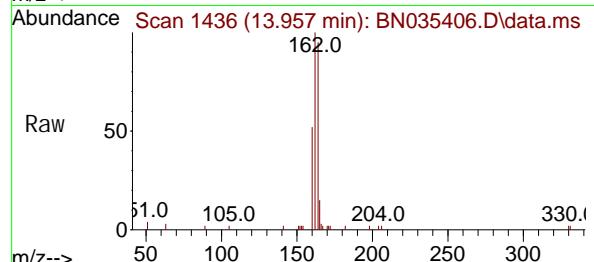
Tgt Ion: 142 Resp: 3781
Ion Ratio Lower Upper
142 100
141 89.1 72.2 108.4
115 40.4 31.4 47.0



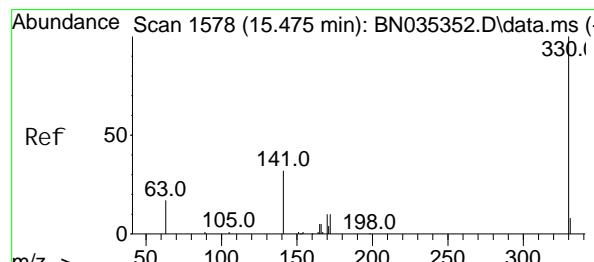
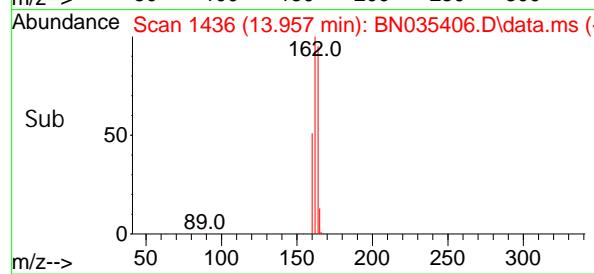
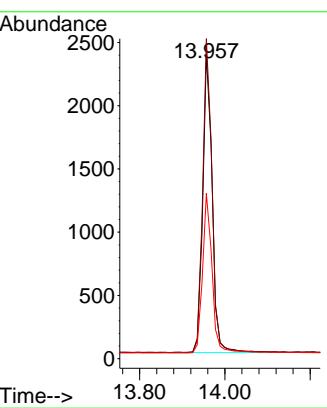


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 13.957 min Scan# 1
 Delta R. T. -0.011 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

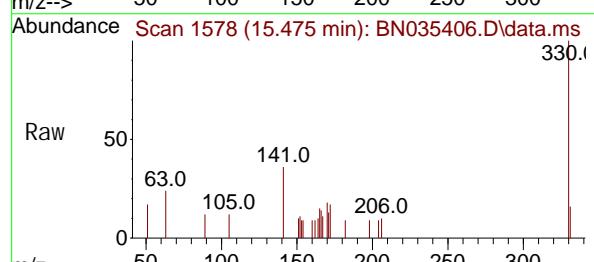
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



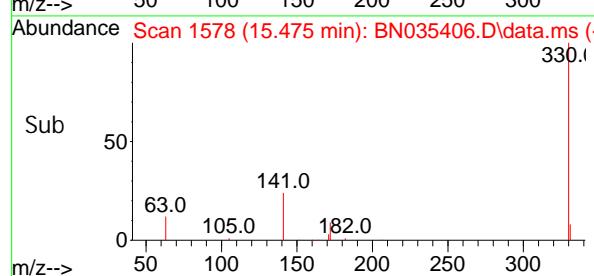
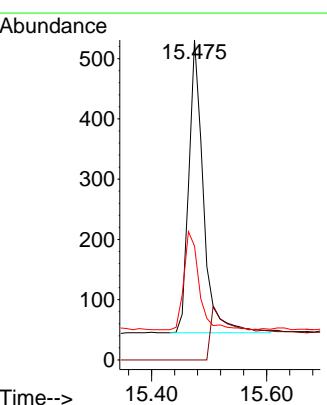
Tgt Ion: 164 Resp: 3625
 Ion Ratio Lower Upper
 164 100
 162 105.2 82.2 123.2
 160 54.3 40.1 60.1

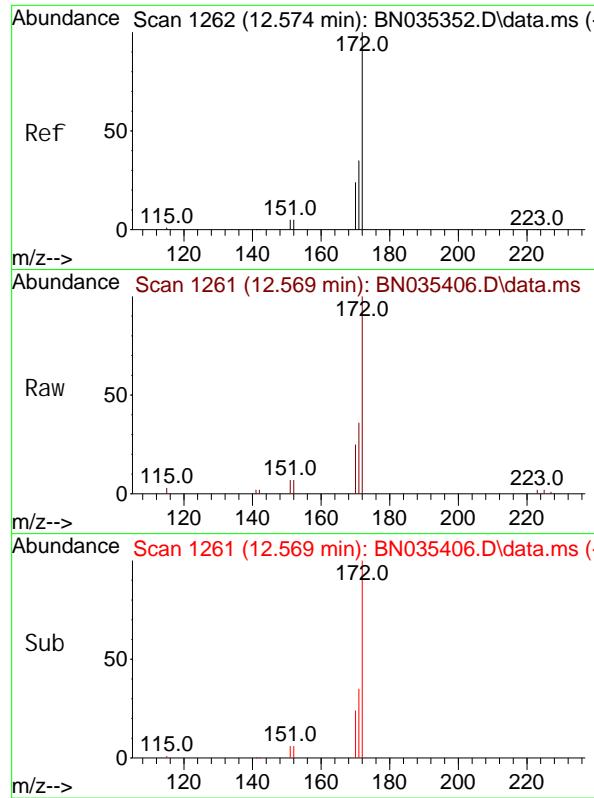


#14
 2, 4, 6-Tri bromophenol
 Concen: 0.356 ng
 RT: 15.475 min Scan# 1578
 Delta R. T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35



Tgt Ion: 330 Resp: 916
 Ion Ratio Lower Upper
 330 100
 332 0.0 0.0 0.0
 141 34.5 26.6 40.0

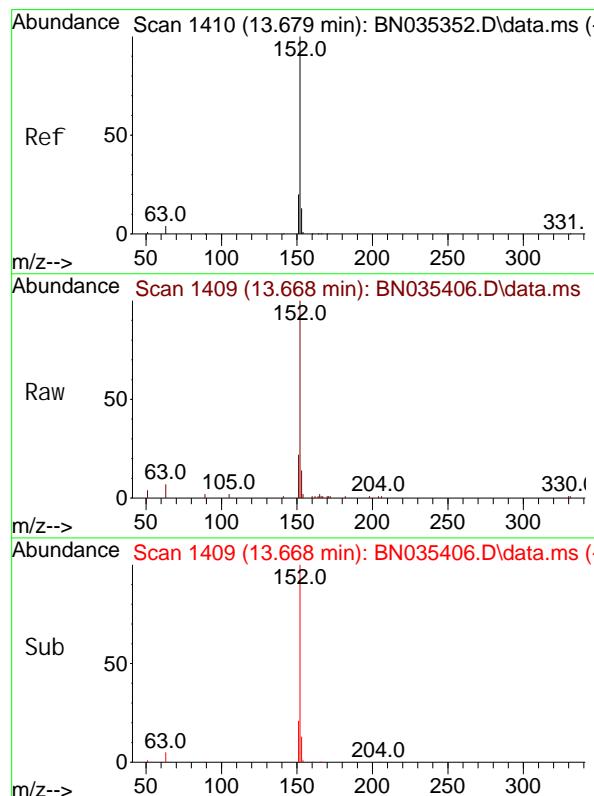
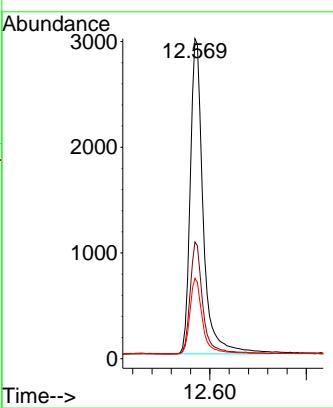




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.569 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

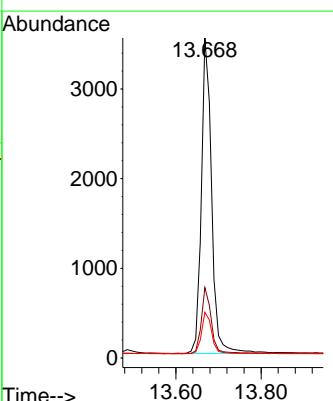
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

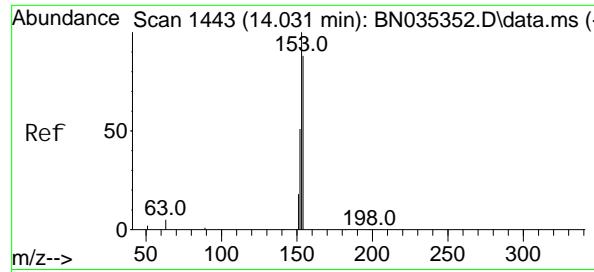
Tgt	Ion: 172	Resp:	5574
Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.0	43.4
170	25.1	19.8	29.8



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

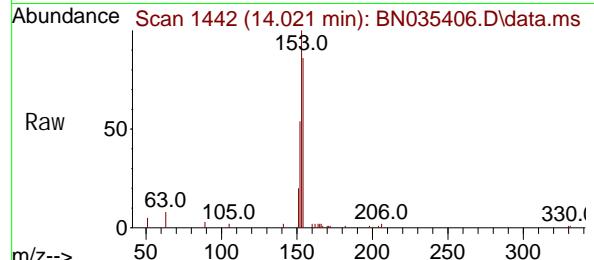
Tgt	Ion: 152	Resp:	5887
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.2	10.4	15.6



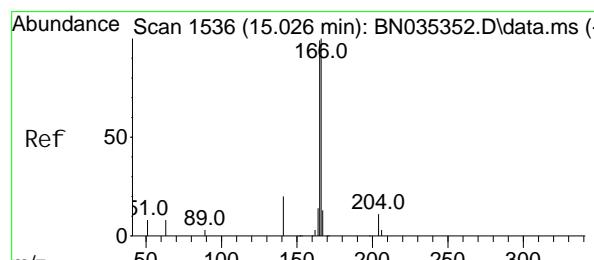
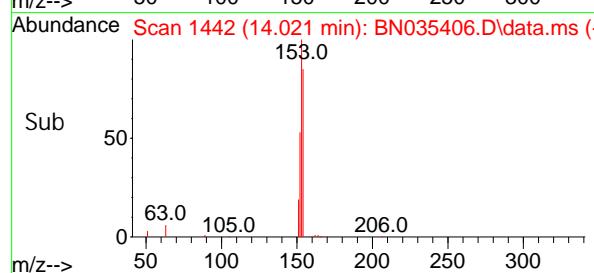
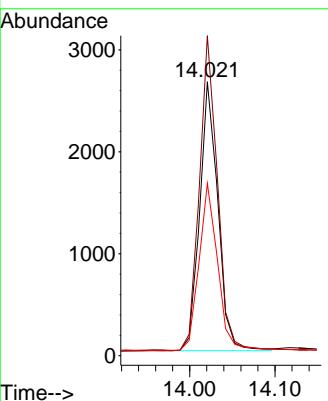


#17
 Acenaphthene
 Concen: 0.387 ng
 RT: 14.021 min Scan# 1
 Delta R.T. -0.011 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

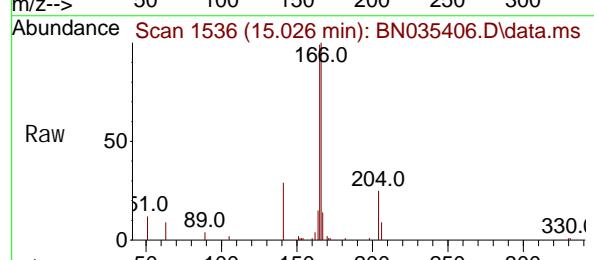
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



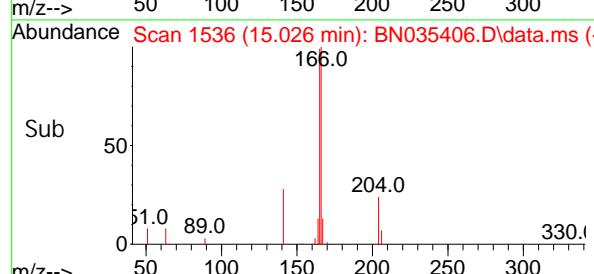
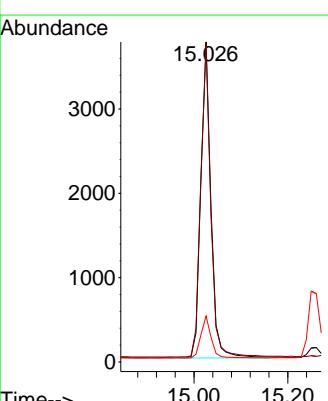
Tgt Ion: 154 Resp: 3907
 Ion Ratio Lower Upper
 154 100
 153 117.9 92.6 139.0
 152 63.5 49.0 73.6

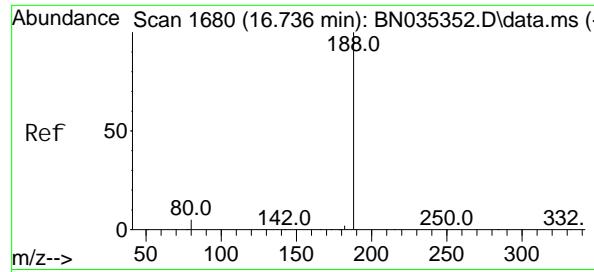


#18
 Fluorene
 Concen: 0.387 ng
 RT: 15.026 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35



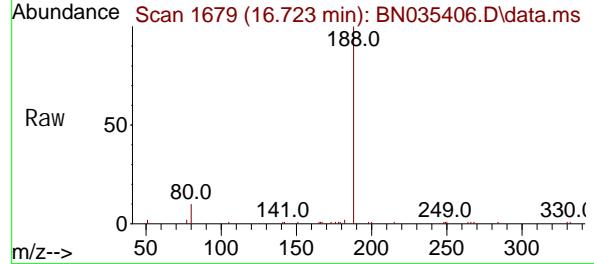
Tgt Ion: 166 Resp: 5593
 Ion Ratio Lower Upper
 166 100
 165 98.8 79.7 119.5
 167 13.3 10.8 16.2



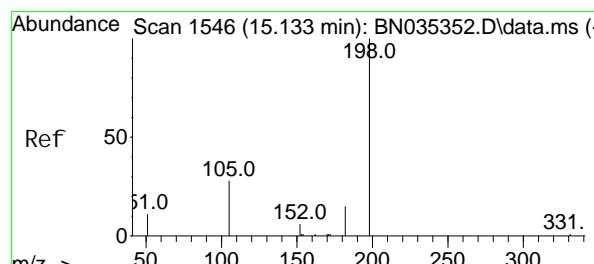
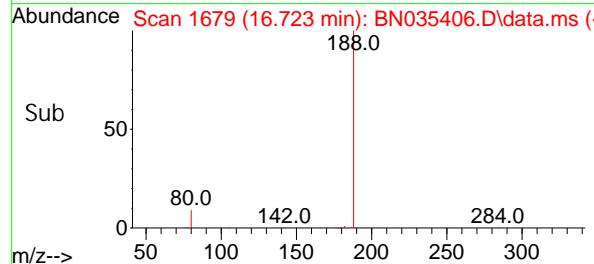
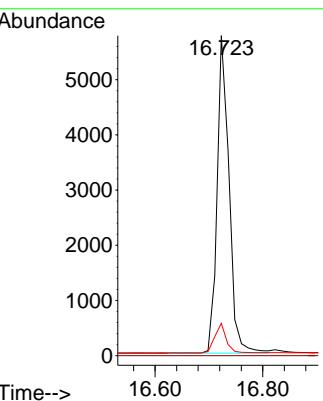


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 1
 Delta R. T. -0.012 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

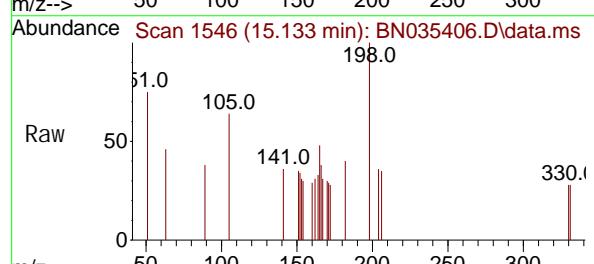
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



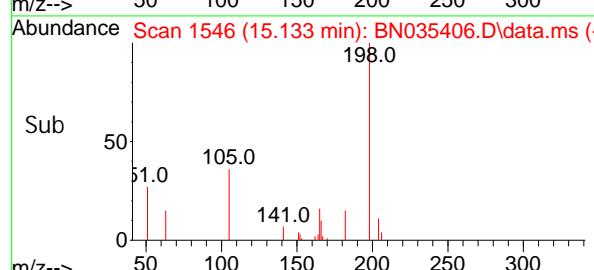
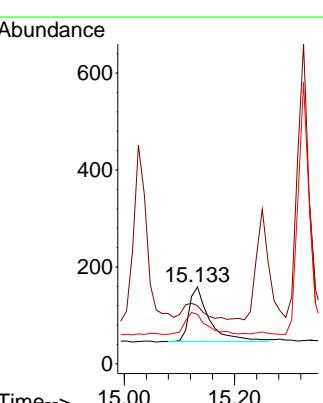
Tgt Ion: 188 Resp: 8862
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 10.1 4.6 6.8#

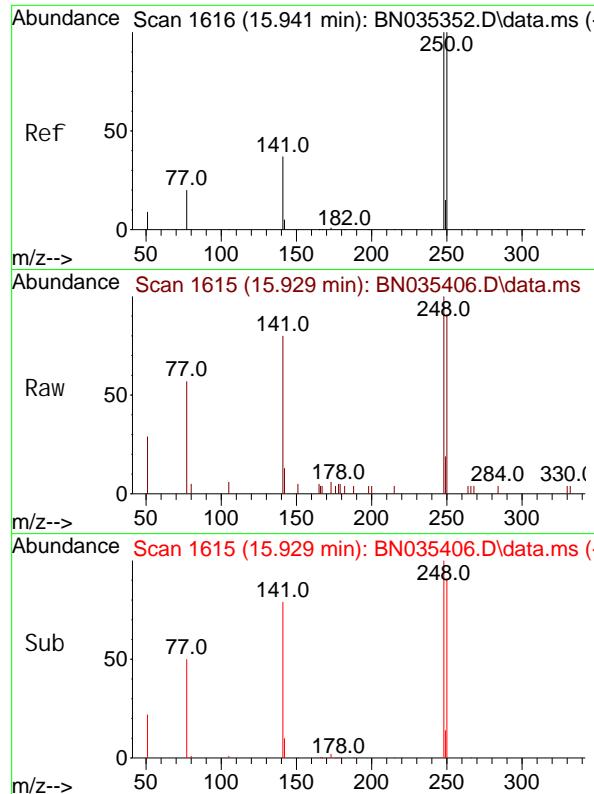


#20
 4, 6-Di nitro-2-methyl phenol
 Concen: 0.334 ng
 RT: 15.133 min Scan# 1546
 Delta R. T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35



Tgt Ion: 198 Resp: 291
 Ion Ratio Lower Upper
 198 100
 51 75.5 46.5 69.7#
 105 64.2 45.3 67.9

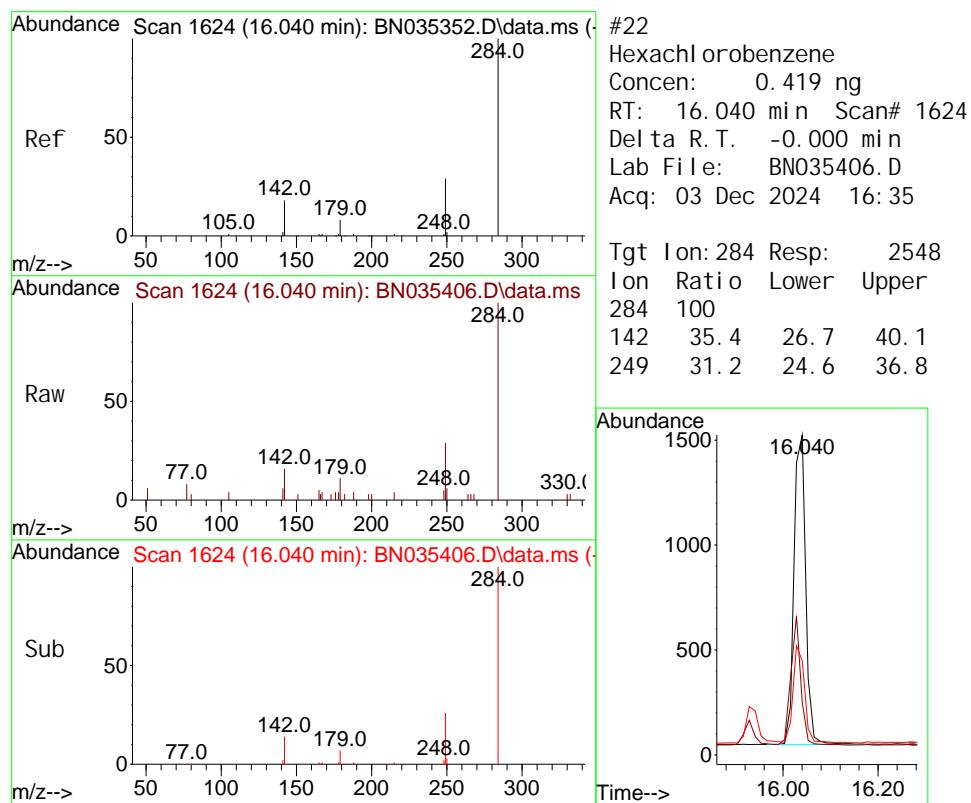
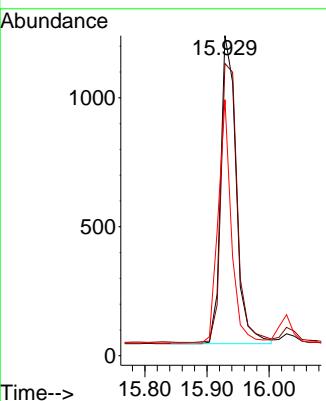




#21
 4-Bromophenyl -phenyl ether
 Concen: 0.397 ng
 RT: 15.929 min Scan# 1
 Delta R. T. -0.012 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

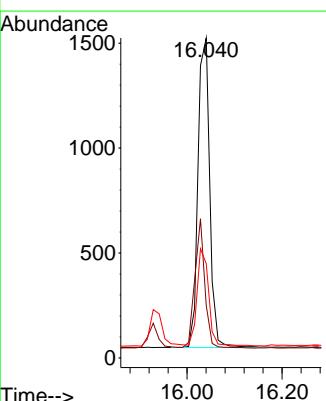
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

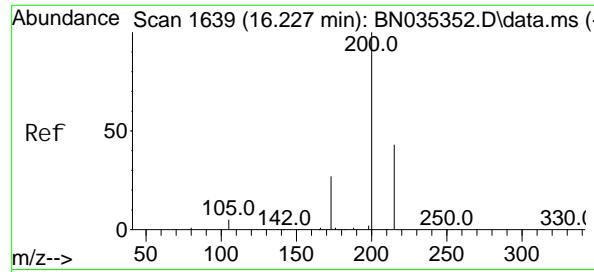
Tgt Ion: 248 Resp: 2060
 Ion Ratio Lower Upper
 248 100
 250 91.3 80.6 120.8
 141 80.0 31.5 47.3#



#22
 Hexachlorobenzene
 Concen: 0.419 ng
 RT: 16.040 min Scan# 1624
 Delta R. T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

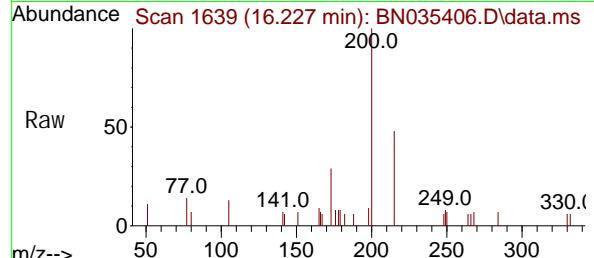
Tgt Ion: 284 Resp: 2548
 Ion Ratio Lower Upper
 284 100
 142 35.4 26.7 40.1
 249 31.2 24.6 36.8



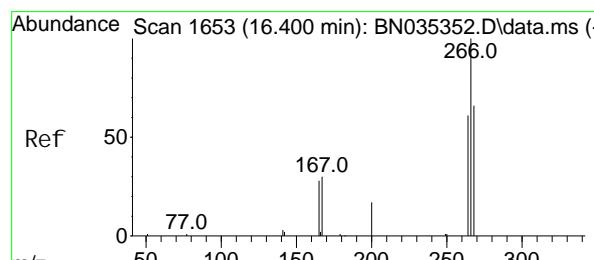
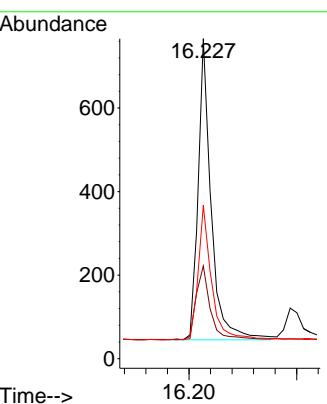
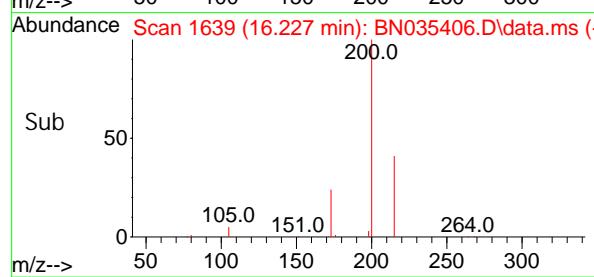


#23
Atrazine
Concen: 0.328 ng
RT: 16.227 min Scan# 1
Delta R. T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

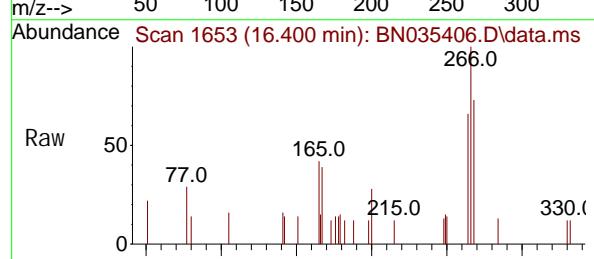
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



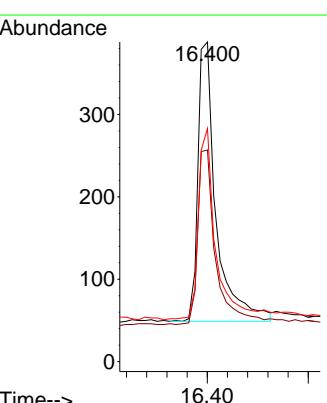
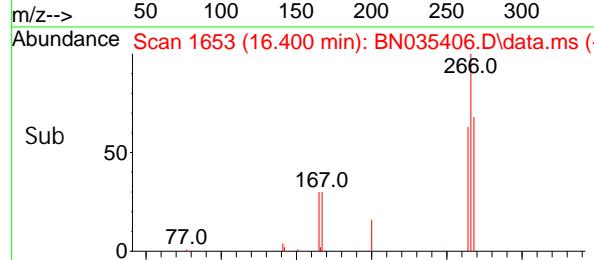
Tgt Ion: 200 Resp: 1209
Ion Ratio Lower Upper
200 100
173 29.0 24.1 36.1
215 47.9 36.9 55.3

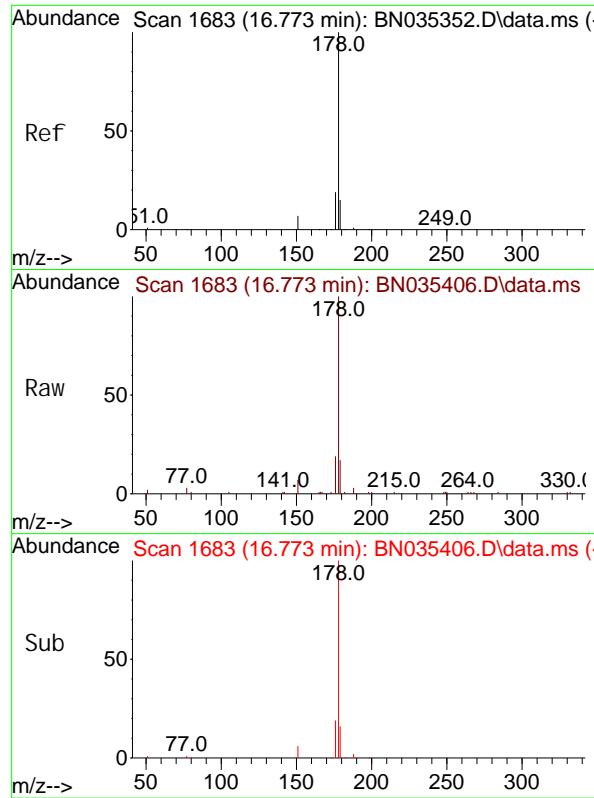


#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.400 min Scan# 1653
Delta R. T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



Tgt Ion: 266 Resp: 848
Ion Ratio Lower Upper
266 100
264 63.0 42.3 63.5
268 67.1 43.3 64.9#

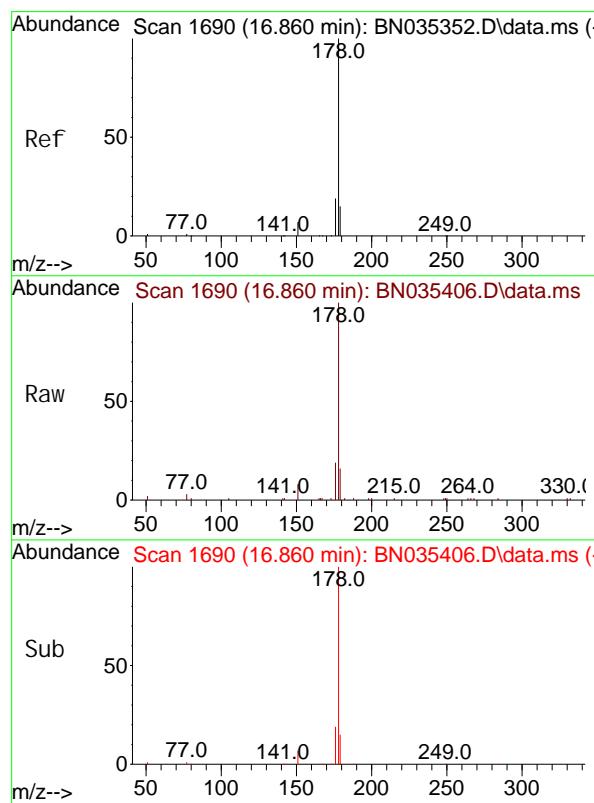
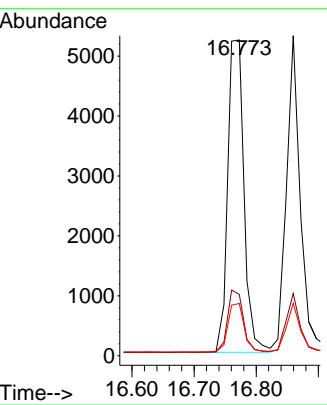




#25
 Phenanthrene
 Concen: 0.393 ng
 RT: 16.773 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

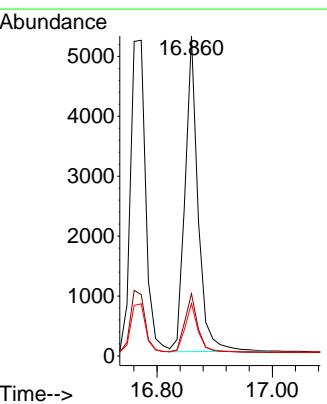
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

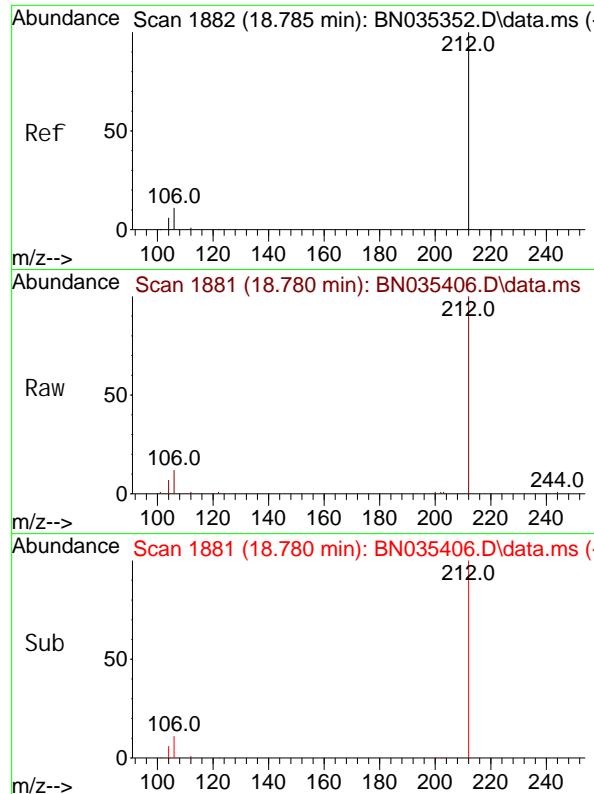
Tgt Ion: 178 Resp: 9564
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.4 23.2
 179 15.6 12.3 18.5



#26
 Anthracene
 Concen: 0.374 ng
 RT: 16.860 min Scan# 1690
 Delta R.T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion: 178 Resp: 8243
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.6
 179 15.4 12.6 18.8

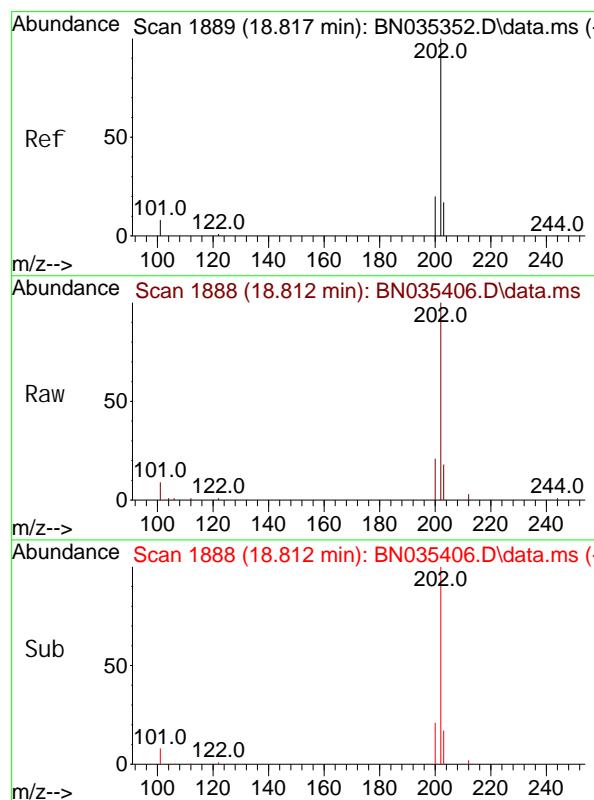
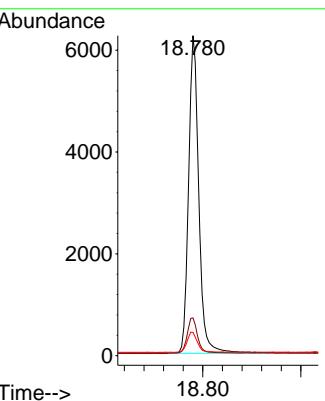




#27
 Fluoranthene-d10
 Concen: 0.359 ng
 RT: 18.780 min Scan# 13
 Delta R.T. -0.005 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

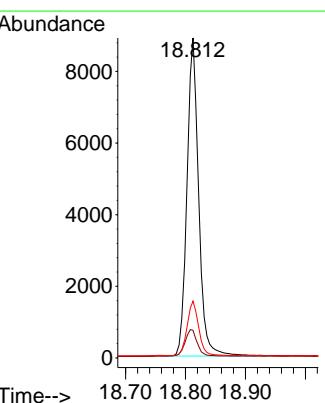
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

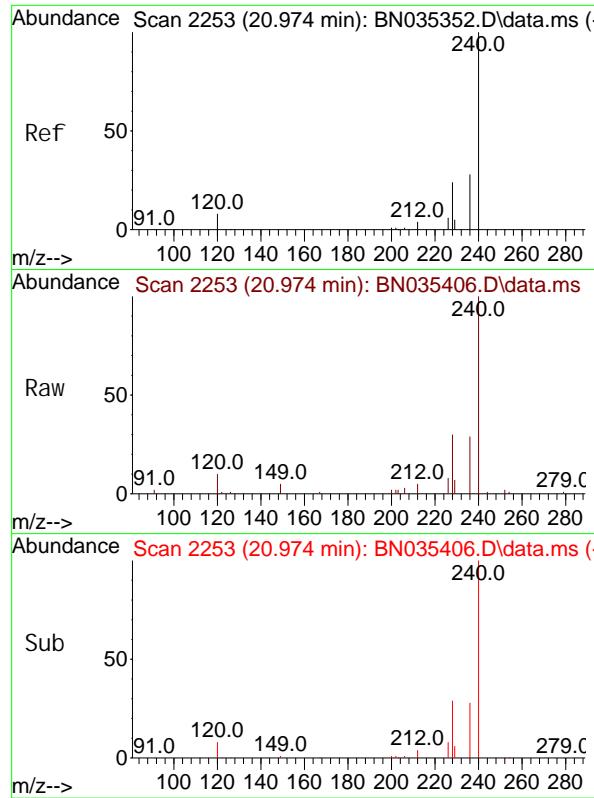
Tgt Ion: 212 Resp: 9013
 Ion Ratio Lower Upper
 212 100
 106 11.3 9.2 13.8
 104 6.3 5.3 7.9



#28
 Fluoranthene
 Concen: 0.367 ng
 RT: 18.812 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion: 202 Resp: 12056
 Ion Ratio Lower Upper
 202 100
 101 8.9 7.4 11.0
 203 17.1 13.7 20.5

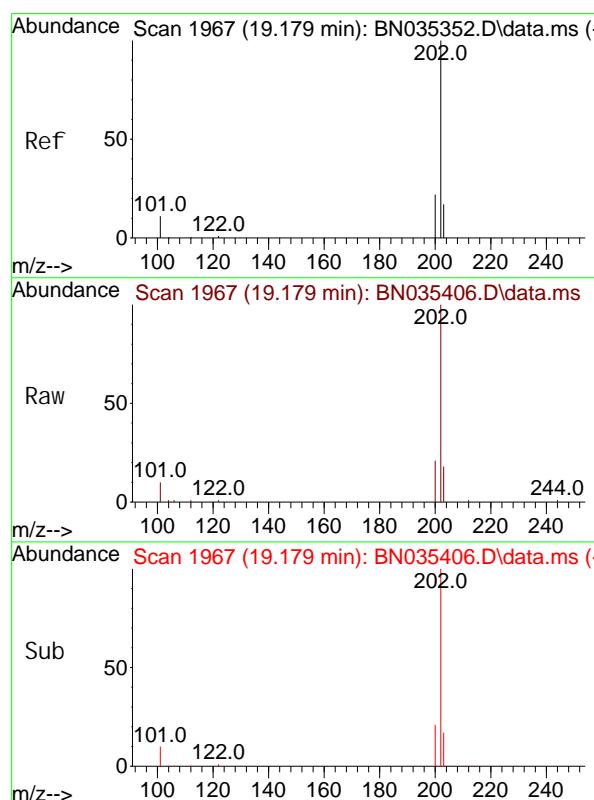
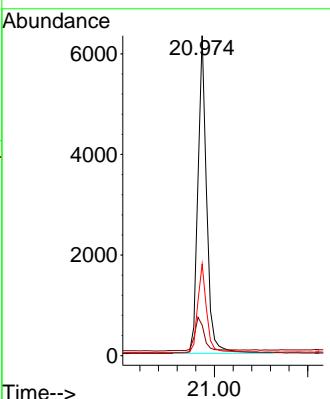




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

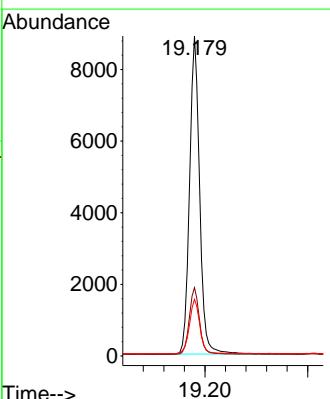
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

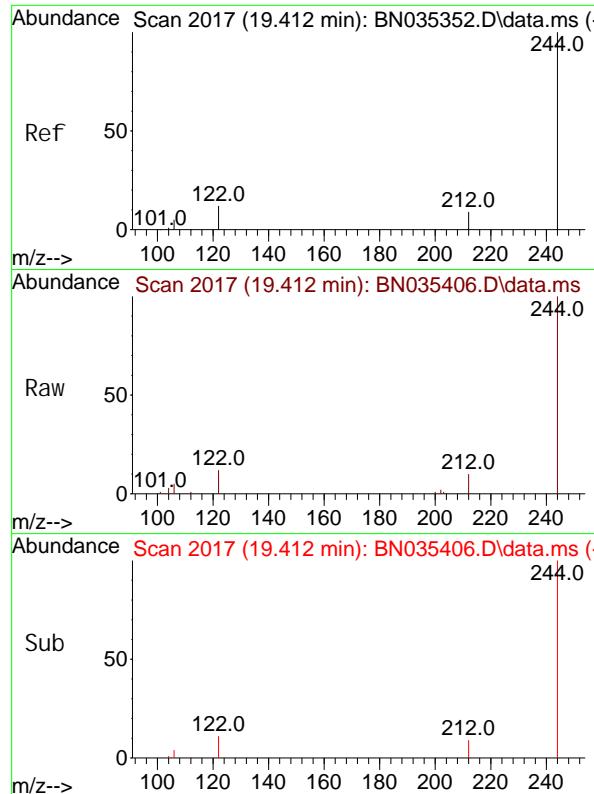
Tgt	Ion: 240	Resp:	8251
Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.9	11.9
236	28.6	22.9	34.3



#30
 Pyrene
 Concen: 0.400 ng
 RT: 19.179 min Scan# 1967
 Delta R.T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt	Ion: 202	Resp:	12183
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.6	14.3	21.5

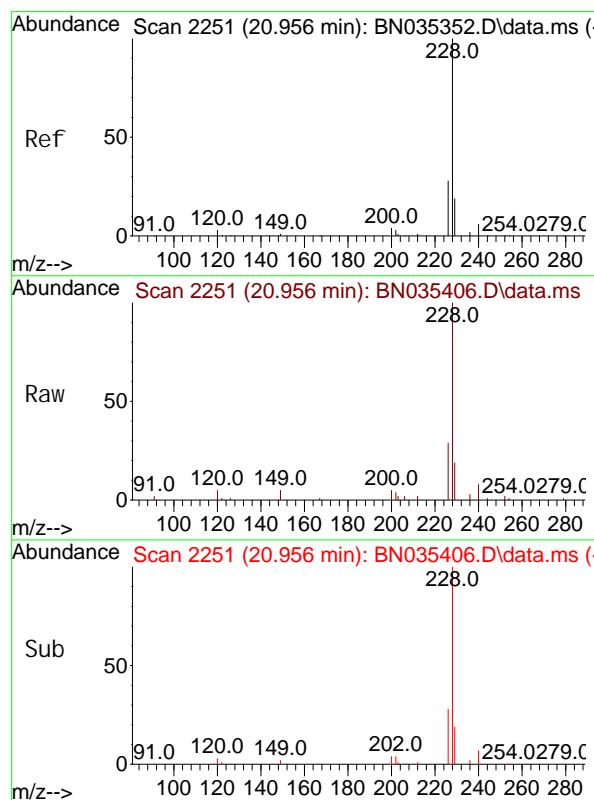
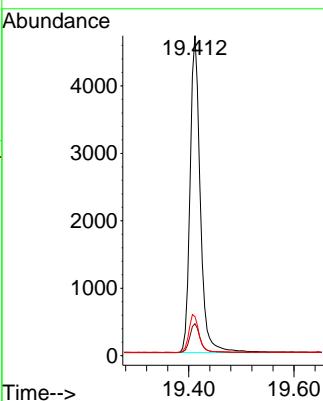




#31
Terphenyl -d14
Concen: 0.389 ng
RT: 19.412 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

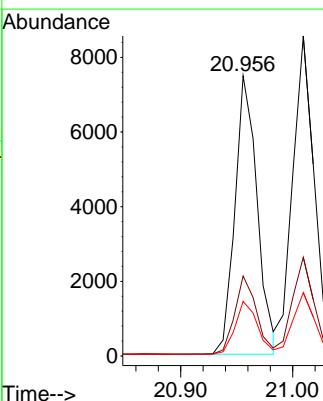
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

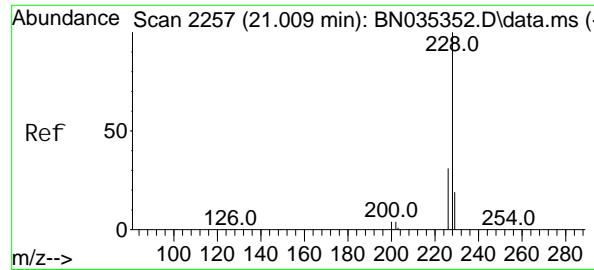
Tgt	Ion: 244	Resp:	6327
Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.1	12.1
122	12.2	10.3	15.5



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

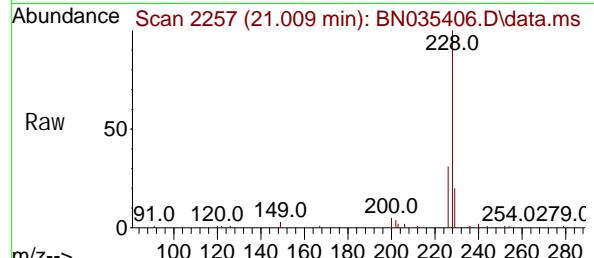
Tgt	Ion: 228	Resp:	10317
Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.5	33.7
229	19.5	15.8	23.8



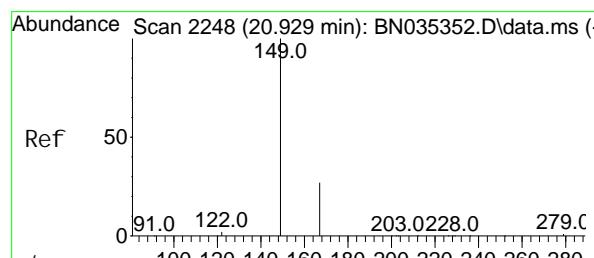
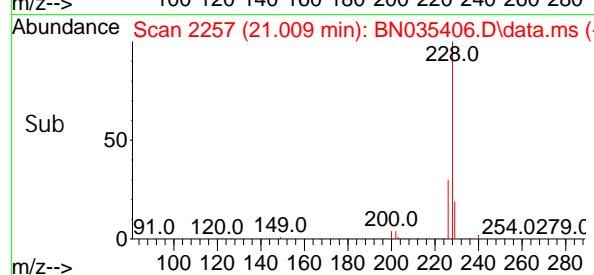
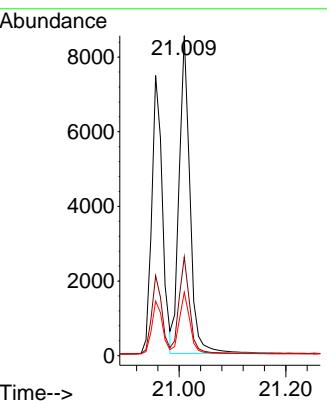


#33
Chrysene
Concen: 0.403 ng
RT: 21.009 min Scan# 2
Delta R. T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35

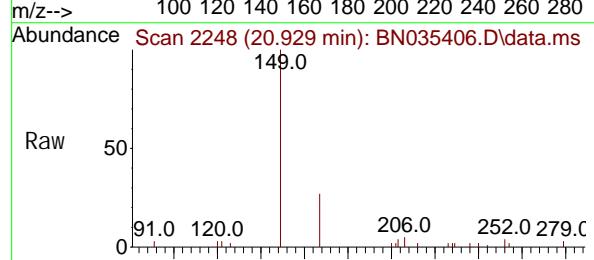
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4



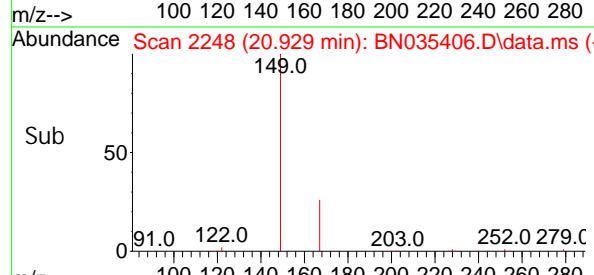
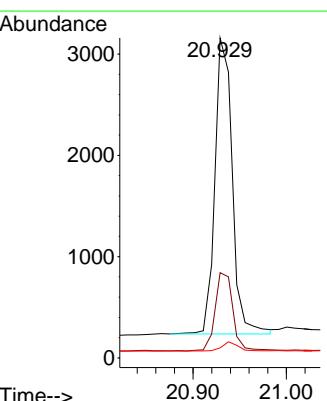
Tgt Ion: 228 Resp: 12005
Ion Ratio Lower Upper
228 100
226 30.9 24.6 37.0
229 19.8 15.9 23.9

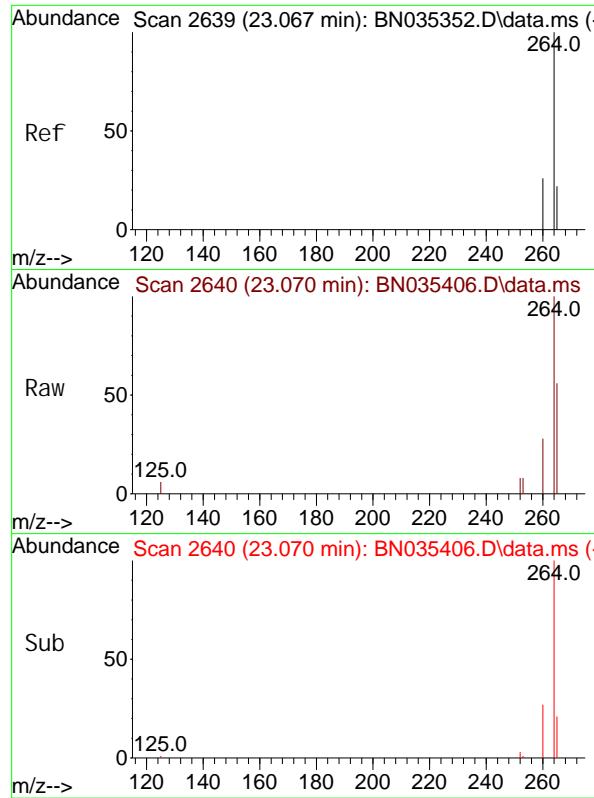


#34
Bis(2-ethyl hexyl)phthalate
Concen: 0.331 ng
RT: 20.929 min Scan# 2248
Delta R. T. 0.000 min
Lab File: BN035406.D
Acq: 03 Dec 2024 16:35



Tgt Ion: 149 Resp: 3769
Ion Ratio Lower Upper
149 100
167 27.1 22.2 33.4
279 3.1 2.7 4.1

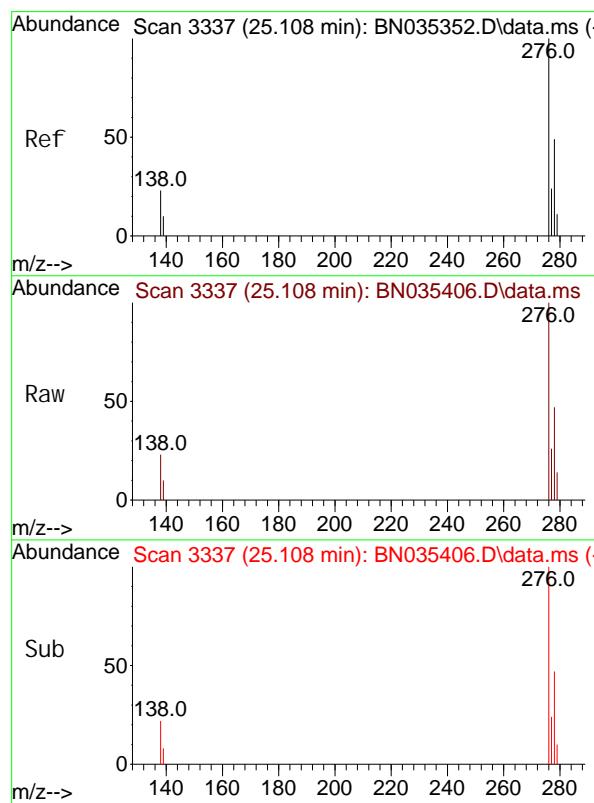
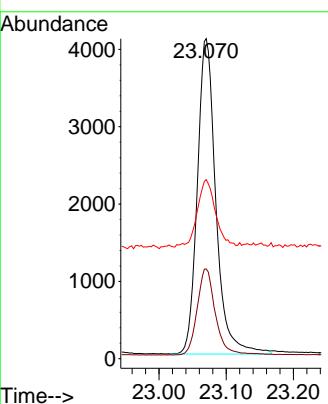




#35
 Perylene-d₁₂
 Concen: 0.400 ng
 RT: 23.070 min Scan# 2
 Delta R. T. 0.003 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

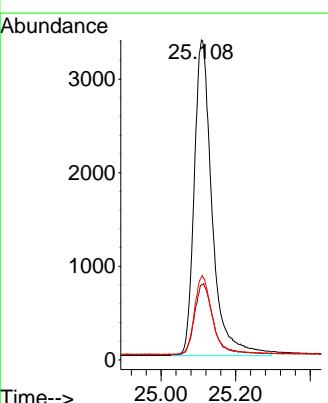
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

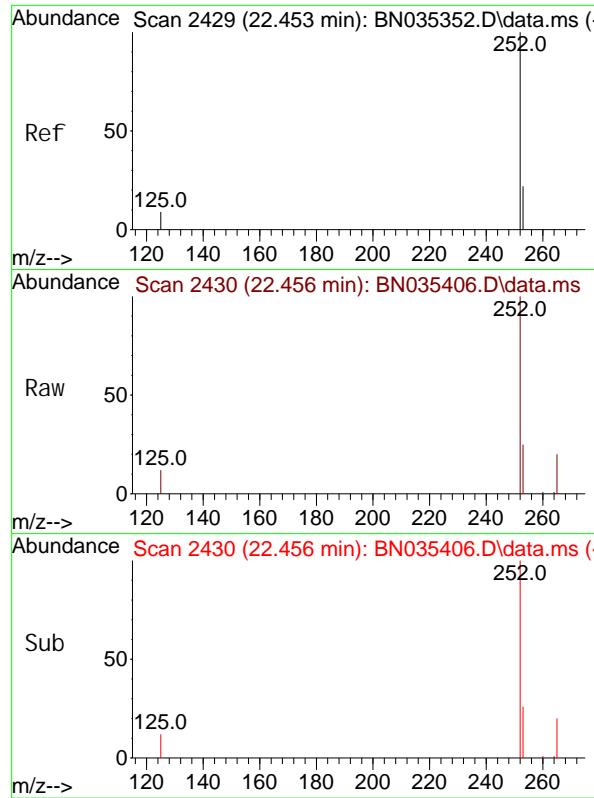
Tgt Ion: 264 Resp: 7832
 Ion Ratio Lower Upper
 264 100
 260 28.1 21.4 32.2
 265 55.9 40.2 60.4



#36
 Indeno(1, 2, 3-cd)pyrene
 Concen: 0.368 ng
 RT: 25.108 min Scan# 3337
 Delta R. T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion: 276 Resp: 11257
 Ion Ratio Lower Upper
 276 100
 138 22.5 19.4 29.0
 277 24.3 19.8 29.6

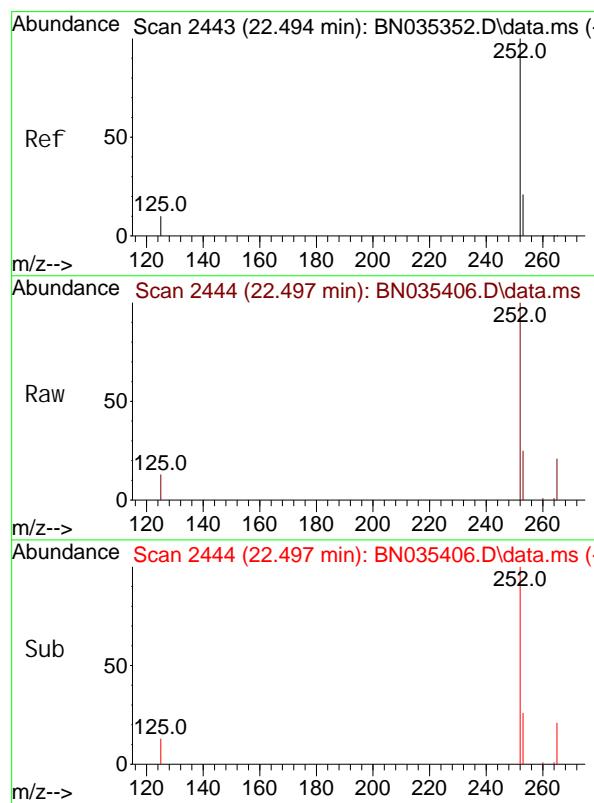
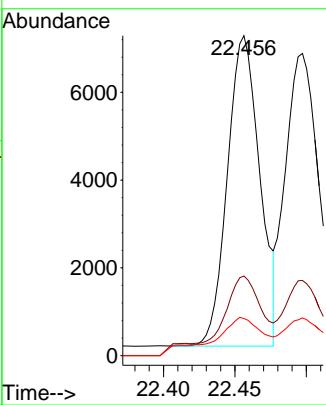




#37
 Benzo(b)fluoranthene
 Concen: 0.390 ng
 RT: 22.456 min Scan# 2
 Delta R.T. 0.003 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

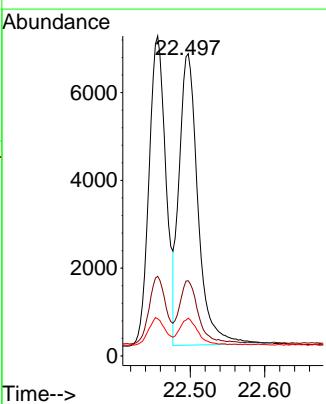
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

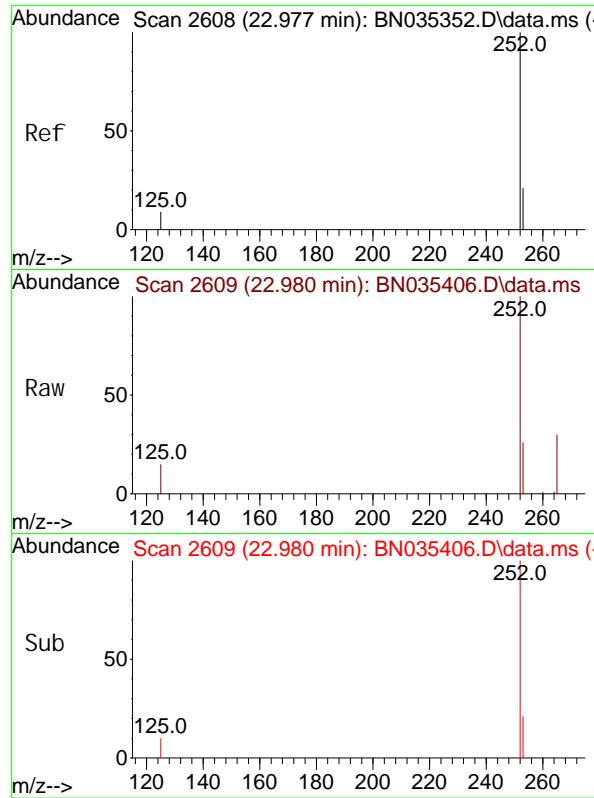
Tgt	Ion: 252	Resp:	11172
Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.6	29.4
125	11.6	9.6	14.4



#38
 Benzo(k)fluoranthene
 Concen: 0.414 ng
 RT: 22.497 min Scan# 2444
 Delta R.T. 0.003 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt	Ion: 252	Resp:	11663
Ion	Ratio	Lower	Upper
252	100		
253	24.9	19.5	29.3
125	12.5	10.2	15.4

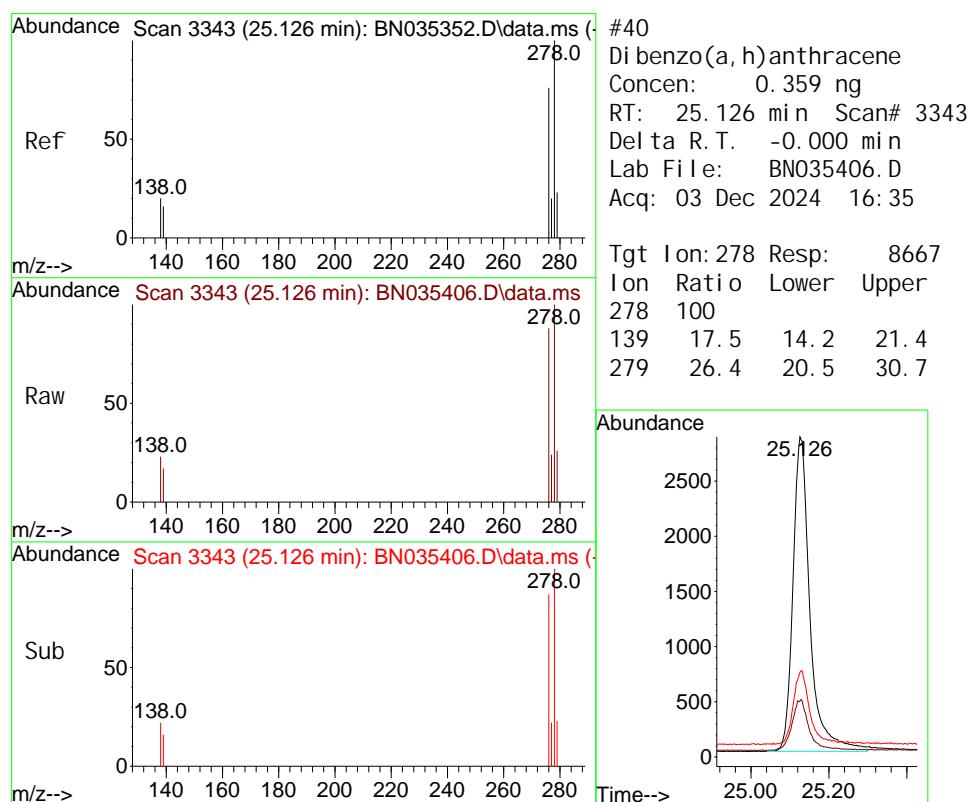
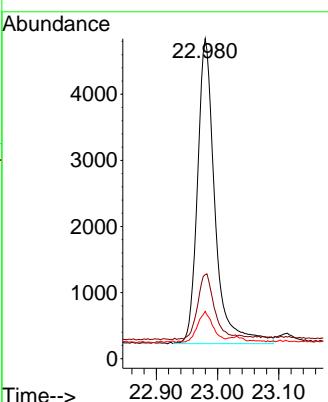




#39
 Benzo(a)pyrene
 Concen: 0.387 ng
 RT: 22.980 min Scan# 2
 Delta R. T. 0.003 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

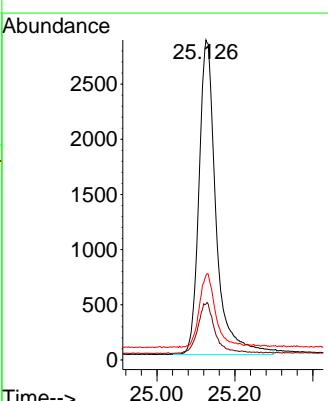
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4

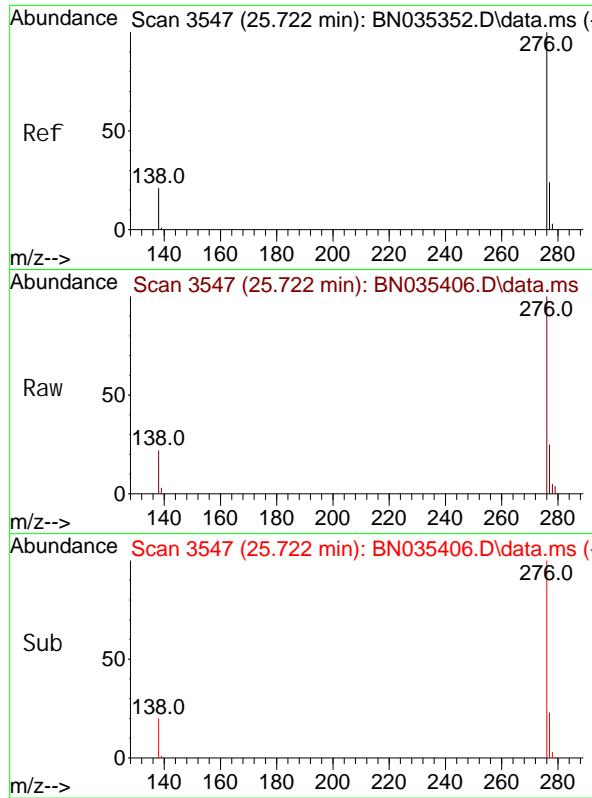
Tgt Ion: 252 Resp: 9142
 Ion Ratio Lower Upper
 252 100
 253 26.3 20.2 30.4
 125 14.8 10.9 16.3



#40
 Di benzo(a, h)anthracene
 Concen: 0.359 ng
 RT: 25.126 min Scan# 3343
 Delta R. T. -0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Tgt Ion: 278 Resp: 8667
 Ion Ratio Lower Upper
 278 100
 139 17.5 14.2 21.4
 279 26.4 20.5 30.7

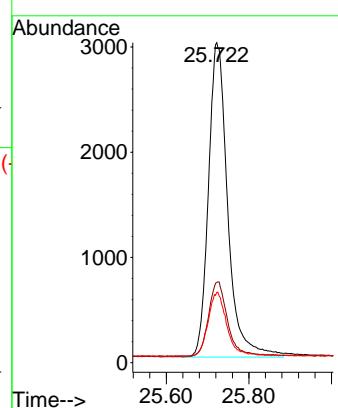




#41
 Benzo(g, h, i)peryl ene
 Concen: 0.383 ng
 RT: 25.722 min Scan# 3
 Delta R. T. 0.000 min
 Lab File: BN035406.D
 Acq: 03 Dec 2024 16:35

Instrument : BNA_N
ClientSampleId : SSTDCCCC0.4

Tgt	Ion: 276	Resp:	9676
Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.9	29.9
138	22.0	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035410.D
 Acq On : 03 Dec 2024 19:24
 Operator : RC/JU
 Sample : P5065-04
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

Quant Time: Dec 03 22:05:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

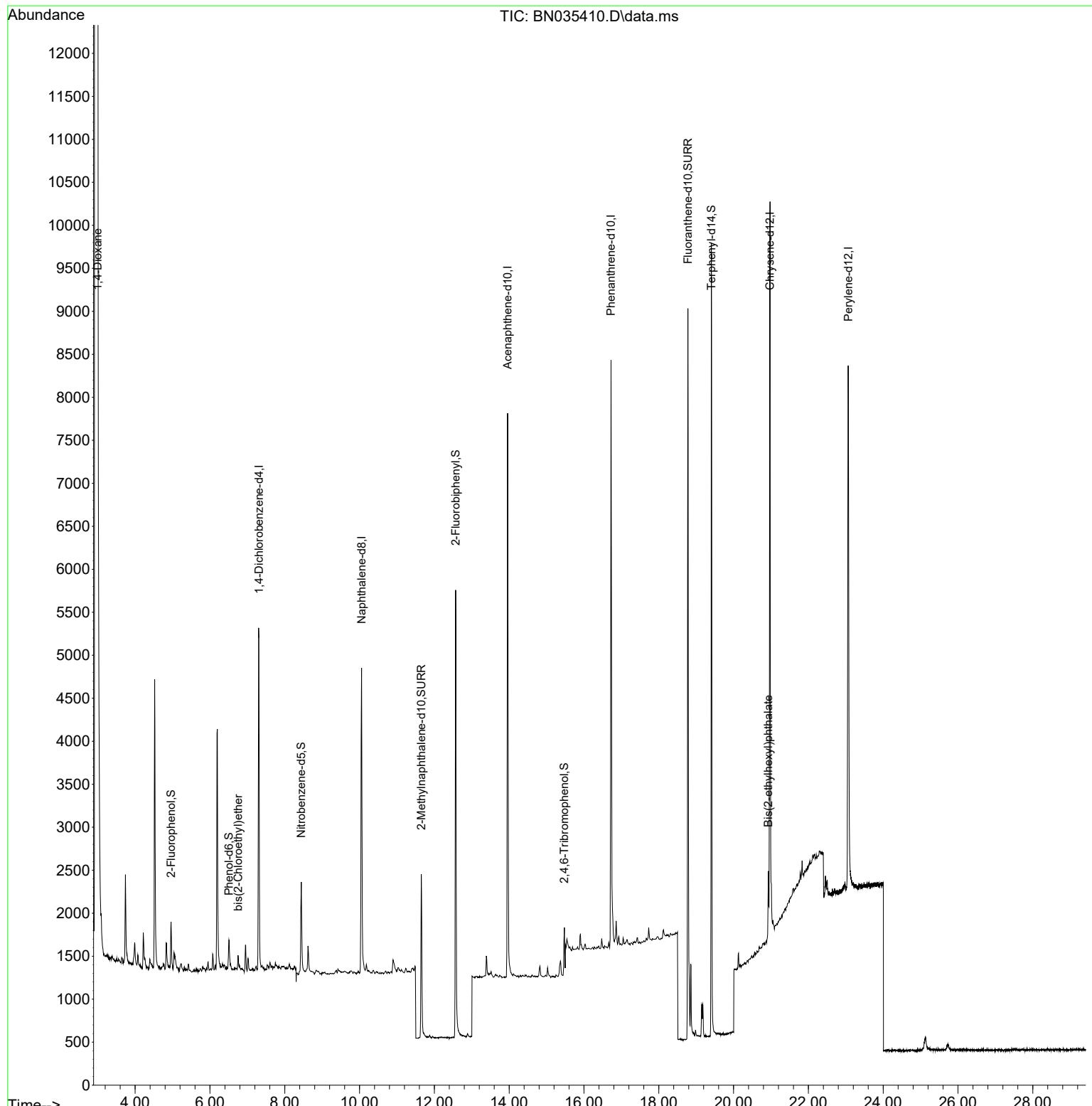
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	5240	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3772	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	9570	0.400	ng	#-0.01
29) Chrysene-d12	20.974	240	8675	0.400	ng	0.00
35) Perylene-d12	23.064	264	8373	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	496	0.096	ng	0.00
5) Phenol-d6	6.506	99	374	0.060	ng	0.00
8) Nitrobenzene-d5	8.440	82	1256	0.392	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2970	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	530	0.198	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5211	0.365	ng	0.00
27) Fluoranthene-d10	18.780	212	10124	0.373	ng	0.00
31) Terphenyl-d14	19.407	244	9247	0.540	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.996	88	6354	3.203	ng	98
6) bis(2-Chloroethyl)ether	6.752	93	129	0.025	ng	94
34) Bis(2-ethylhexyl)phtha...	20.929	149	831	0.069	ng	# 93

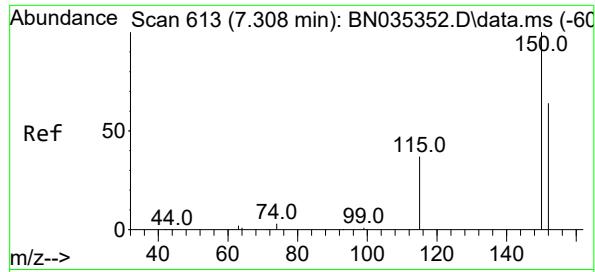
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035410.D
Acq On : 03 Dec 2024 19:24
Operator : RC/JU
Sample : P5065-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP200-20241202

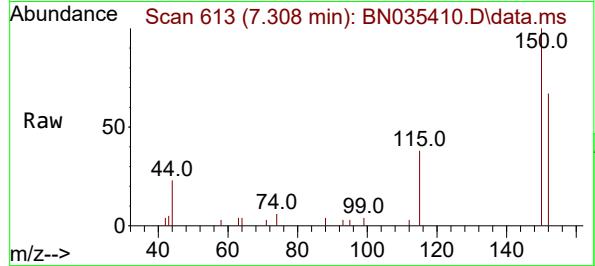
Quant Time: Dec 03 22:05:48 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration



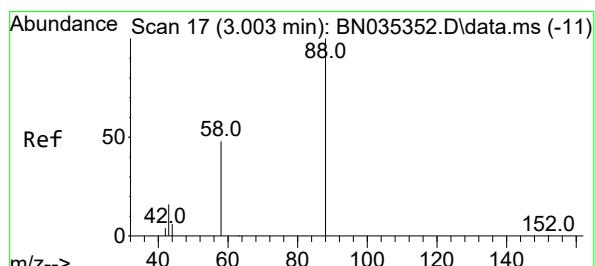
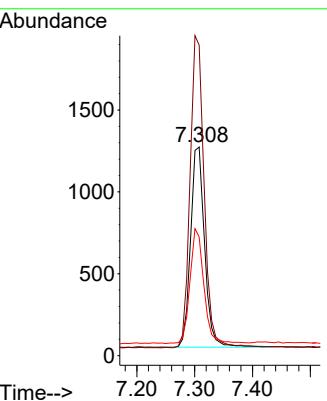
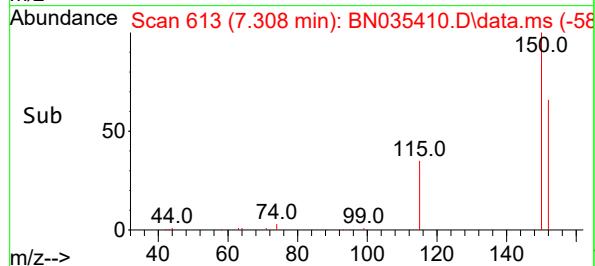


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

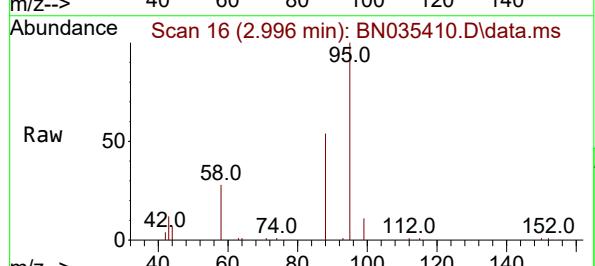
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202



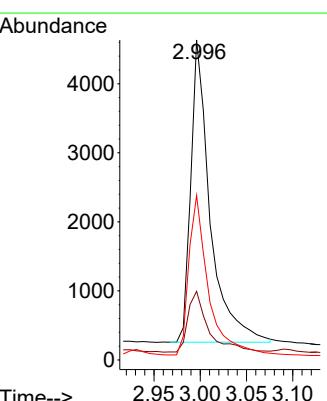
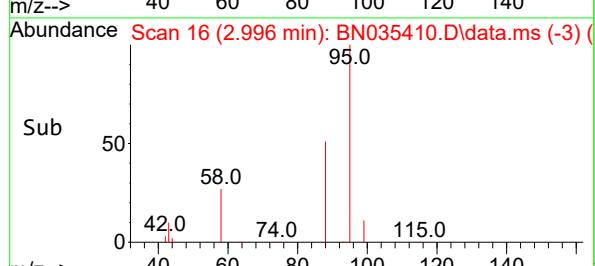
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 148.8 124.0 186.0
115 56.9 49.6 74.4

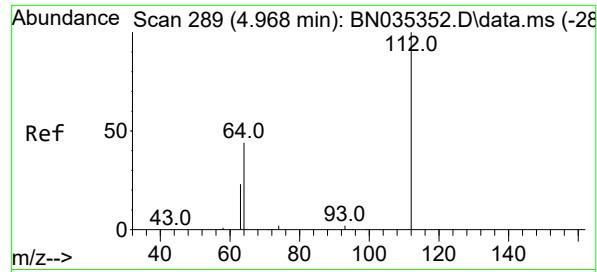


#2
1,4-Dioxane
Concen: 3.203 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24



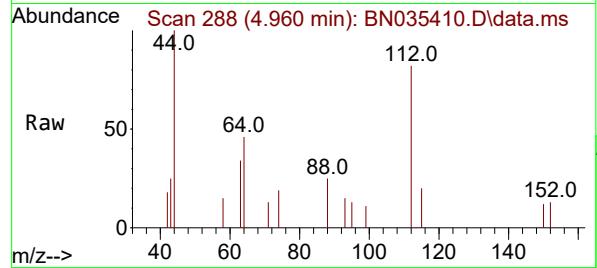
Tgt Ion: 88 Resp: 6354
Ion Ratio Lower Upper
88 100
43 21.5 17.2 25.8
58 53.3 44.5 66.7



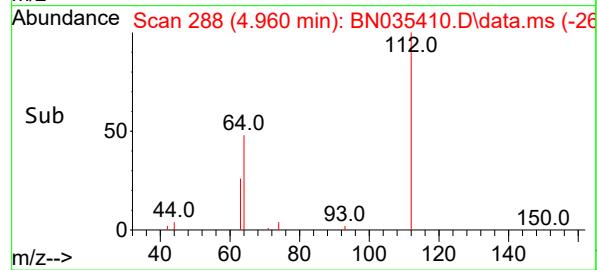
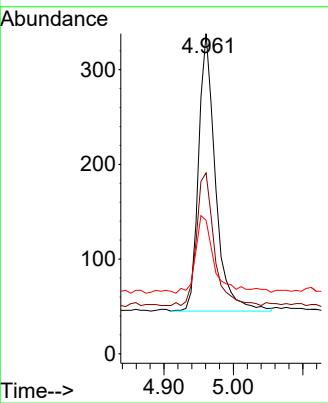


#4
2-Fluorophenol
Concen: 0.096 ng
RT: 4.960 min Scan# 2
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

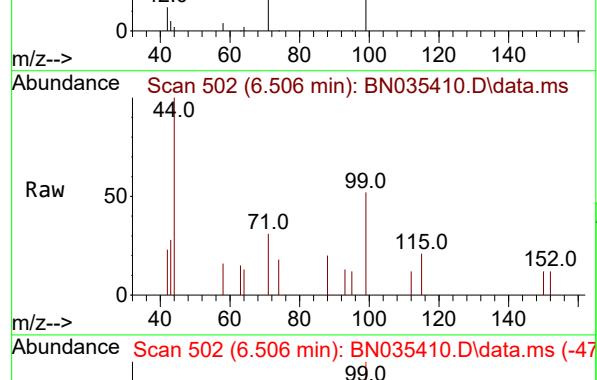
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202



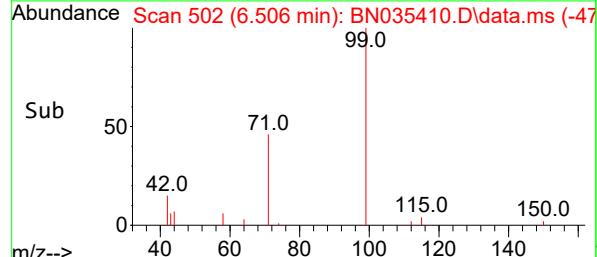
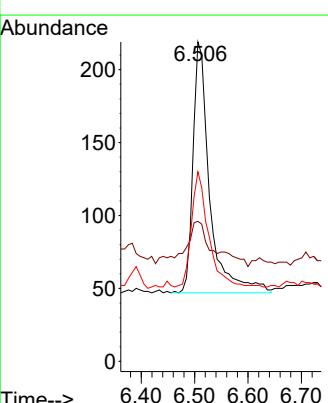
Tgt Ion:112 Resp: 496
Ion Ratio Lower Upper
112 100
64 50.4 39.8 59.8
63 30.0 21.0 31.6

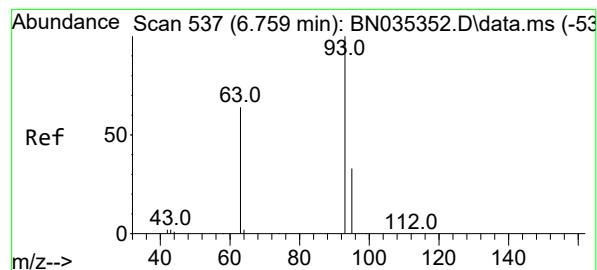


#5
Phenol-d6
Concen: 0.060 ng
RT: 6.506 min Scan# 502
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24



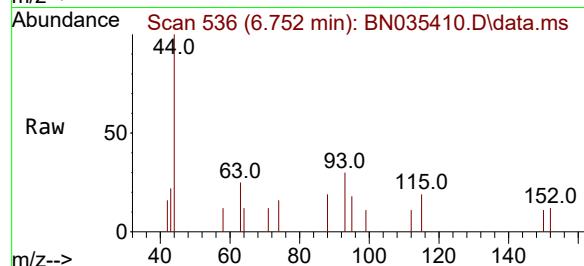
Tgt Ion: 99 Resp: 374
Ion Ratio Lower Upper
99 100
42 27.8 11.4 17.2#
71 46.8 29.3 43.9#



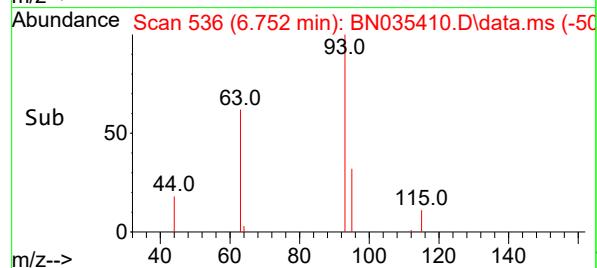
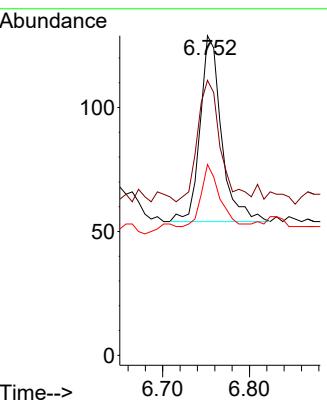


#6
bis(2-Chloroethyl)ether
Concen: 0.025 ng
RT: 6.752 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

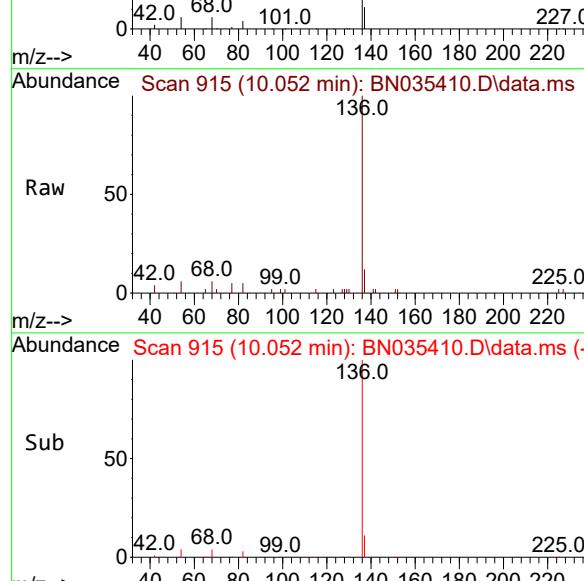
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202



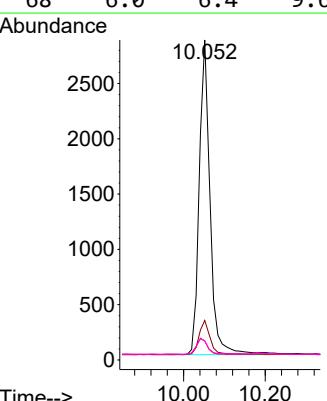
Tgt Ion: 93 Resp: 129
Ion Ratio Lower Upper
93 100
63 69.8 50.4 75.6
95 31.8 25.7 38.5

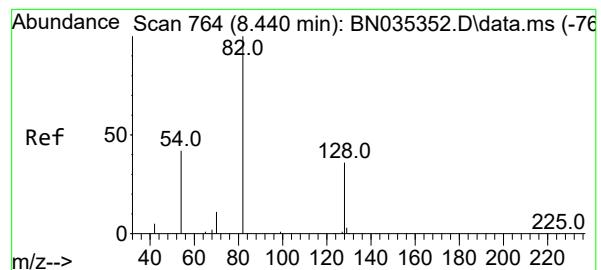


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.052 min Scan# 915
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

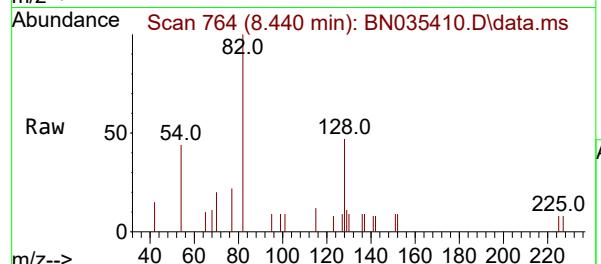


Tgt Ion:136 Resp: 5240
Ion Ratio Lower Upper
136 100
137 12.3 10.2 15.2
54 5.9 6.1 9.1#
68 6.0 6.4 9.6#

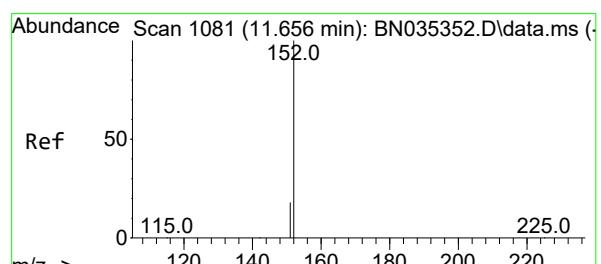
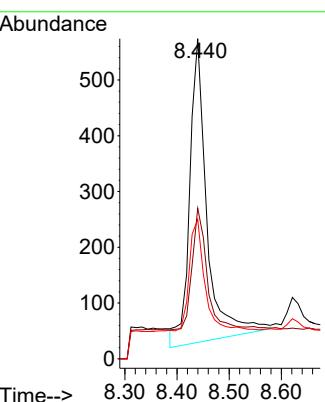
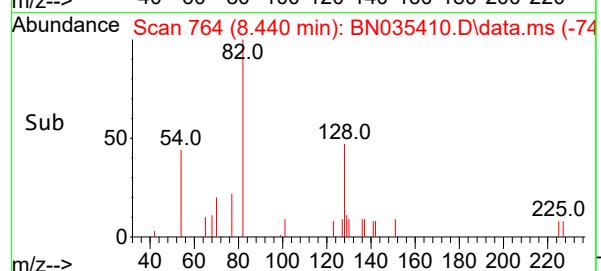




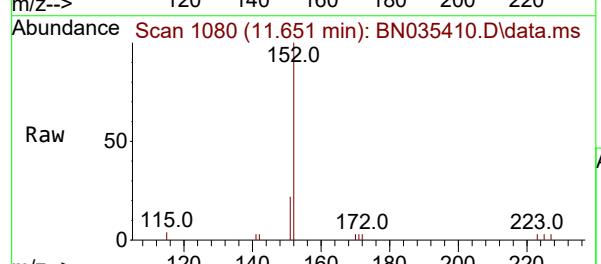
#8
Nitrobenzene-d5
Concen: 0.392 ng
RT: 8.440 min Scan# 7
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24
ClientSampleId : RW7-SP200-20241202



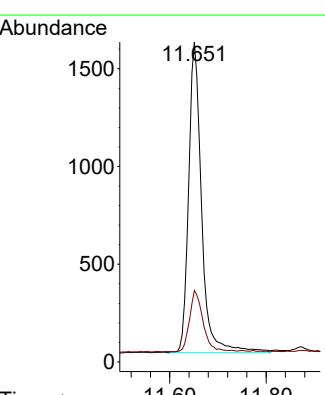
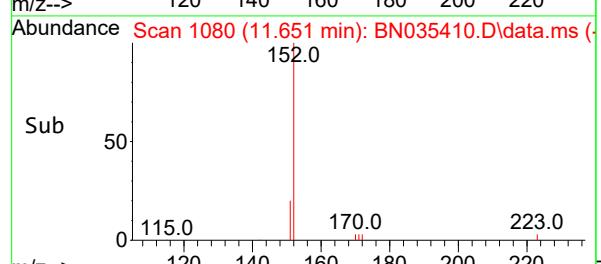
Tgt Ion: 82 Resp: 1256
Ion Ratio Lower Upper
82 100
128 47.0 33.4 50.0
54 43.6 36.7 55.1

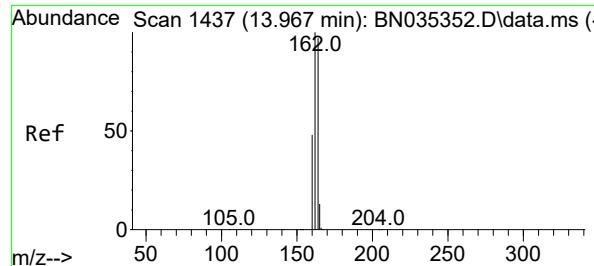


#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.651 min Scan# 1080
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24



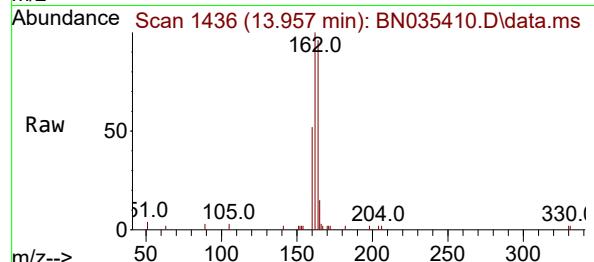
Tgt Ion:152 Resp: 2970
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



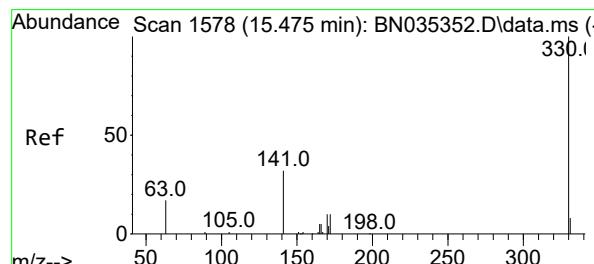
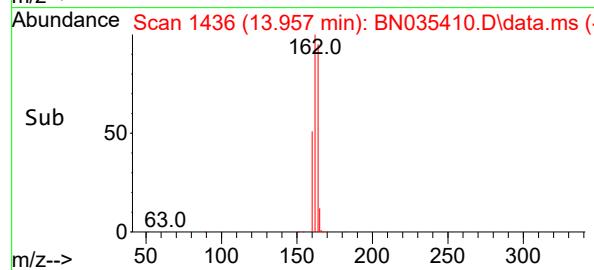
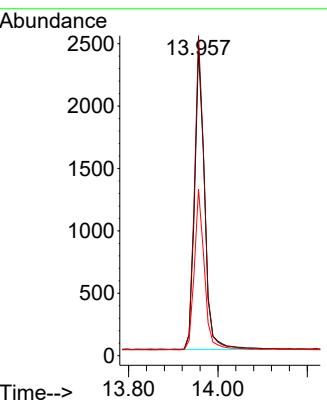


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

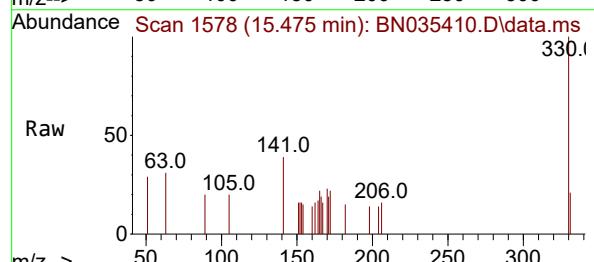
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202



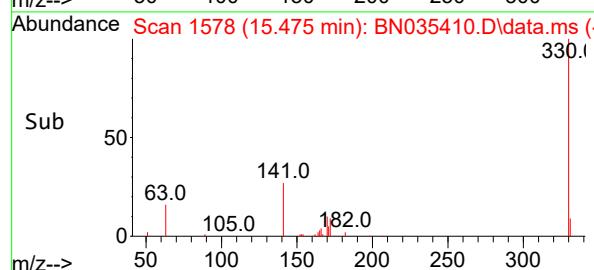
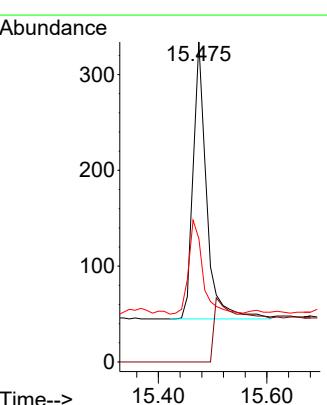
Tgt Ion:164 Resp: 3772
Ion Ratio Lower Upper
164 100
162 104.5 82.2 123.2
160 54.4 40.1 60.1

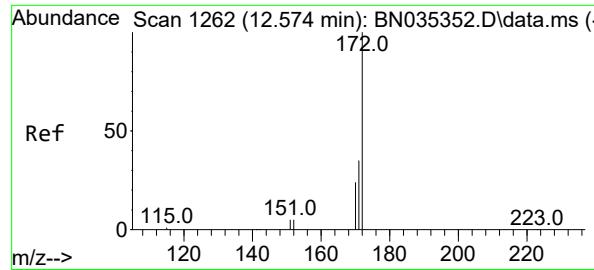


#14
2,4,6-Tribromophenol
Concen: 0.198 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24



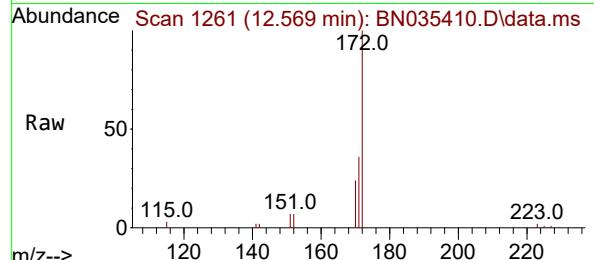
Tgt Ion:330 Resp: 530
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.3 26.6 40.0



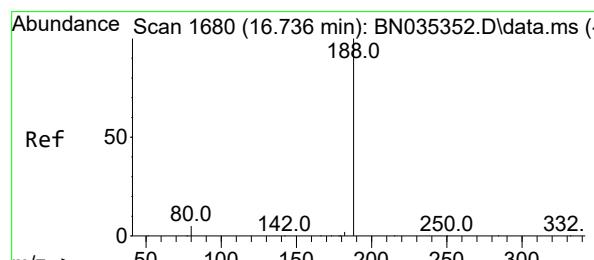
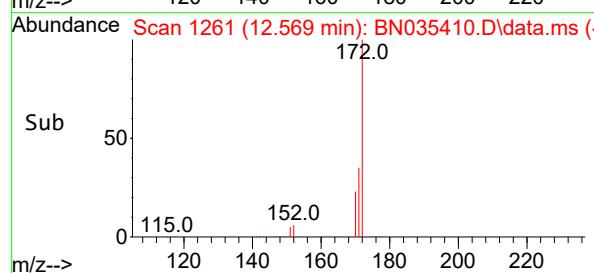
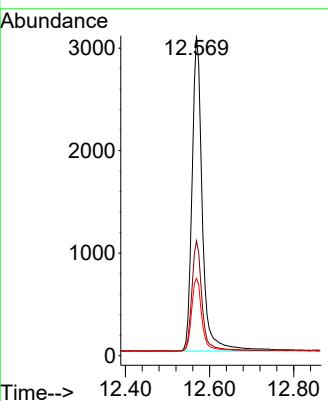


#15
2-Fluorobiphenyl
Concen: 0.365 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24

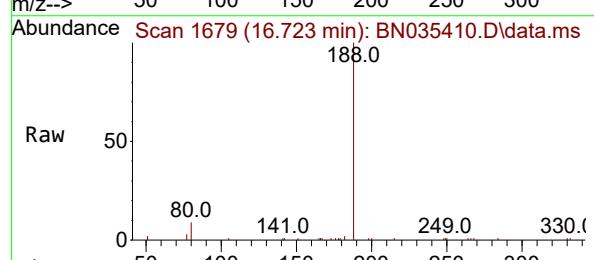
Instrument : BNA_N
ClientSampleId : RW7-SP200-20241202



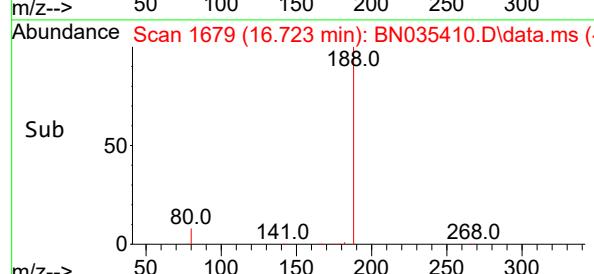
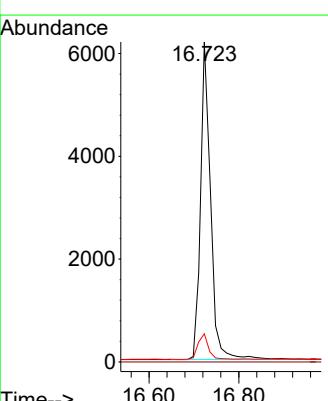
Tgt Ion:172 Resp: 5211
Ion Ratio Lower Upper
172 100
171 35.9 29.0 43.4
170 24.1 19.8 29.8

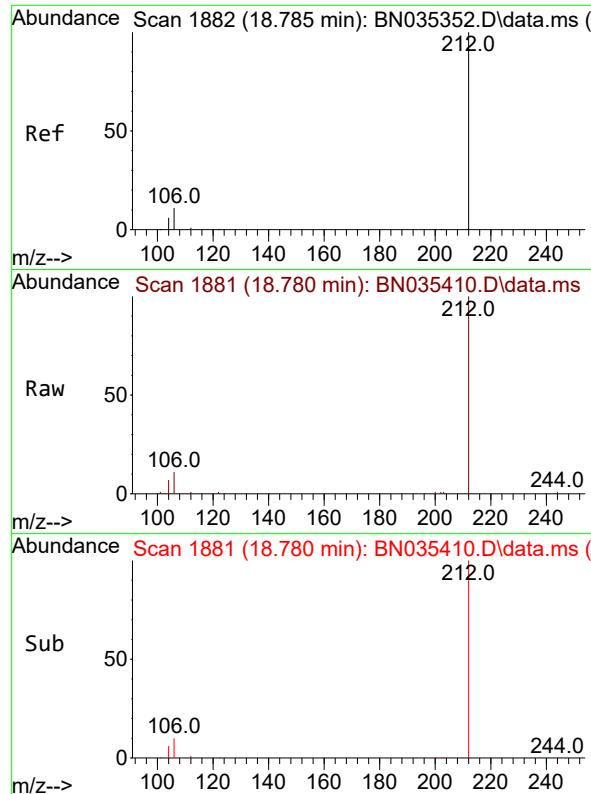


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.723 min Scan# 1679
Delta R.T. -0.012 min
Lab File: BN035410.D
Acq: 03 Dec 2024 19:24



Tgt Ion:188 Resp: 9570
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.8 4.6 6.8#

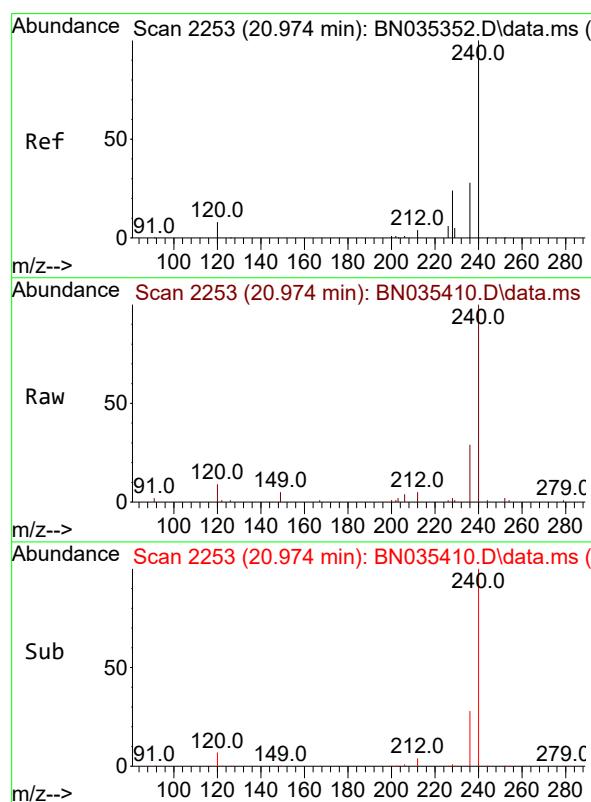
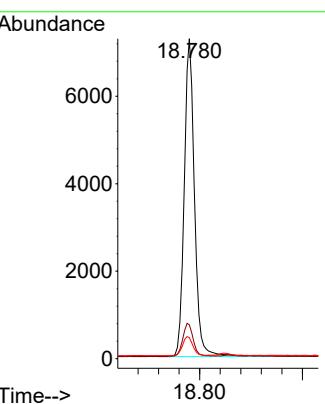




#27
 Fluoranthene-d10
 Concen: 0.373 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

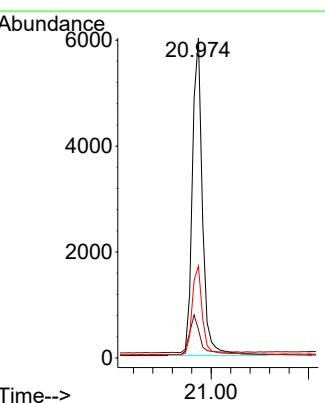
Instrument : BNA_N
 ClientSampleId : RW7-SP200-20241202

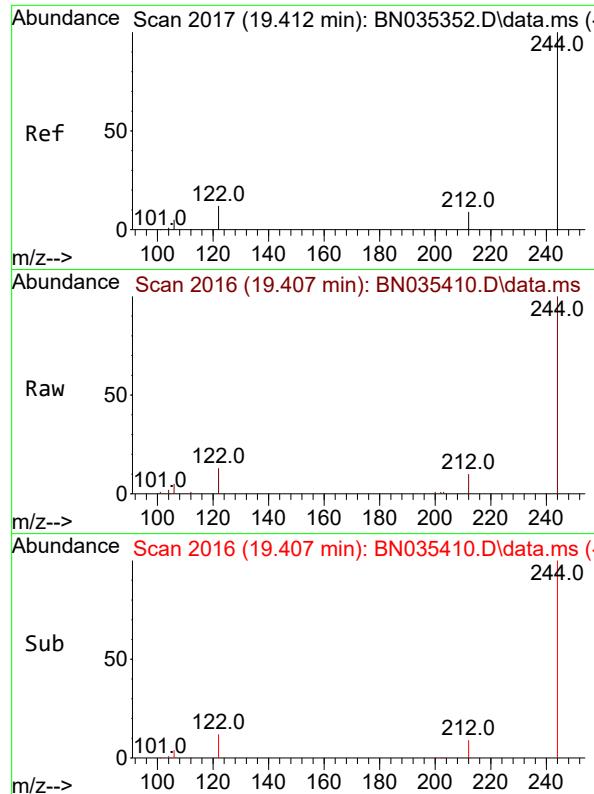
Tgt Ion:212 Resp: 10124
 Ion Ratio Lower Upper
 212 100
 106 10.5 9.2 13.8
 104 6.0 5.3 7.9



#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2253
 Delta R.T. 0.000 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

Tgt Ion:240 Resp: 8675
 Ion Ratio Lower Upper
 240 100
 120 8.8 7.9 11.9
 236 28.8 22.9 34.3

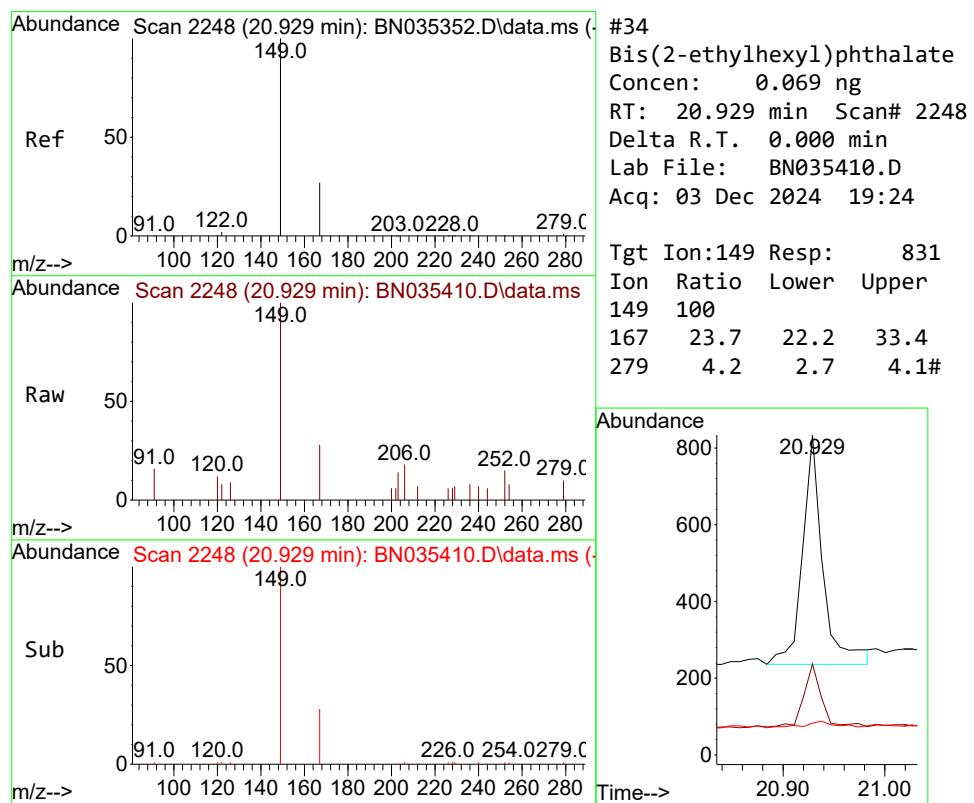
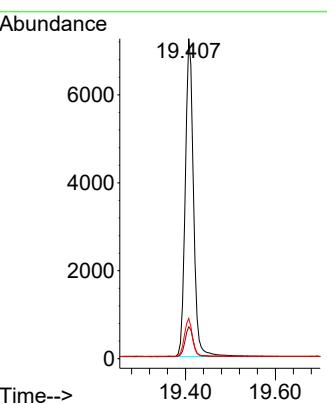




#31
 Terphenyl-d14
 Concen: 0.540 ng
 RT: 19.407 min Scan# 2
 Delta R.T. -0.005 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

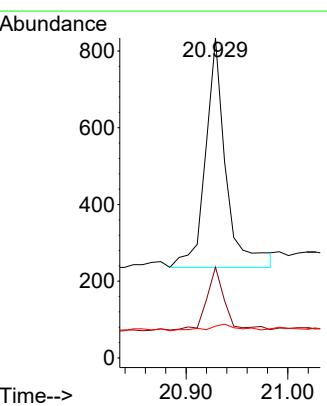
Instrument : BNA_N
 ClientSampleId : RW7-SP200-20241202

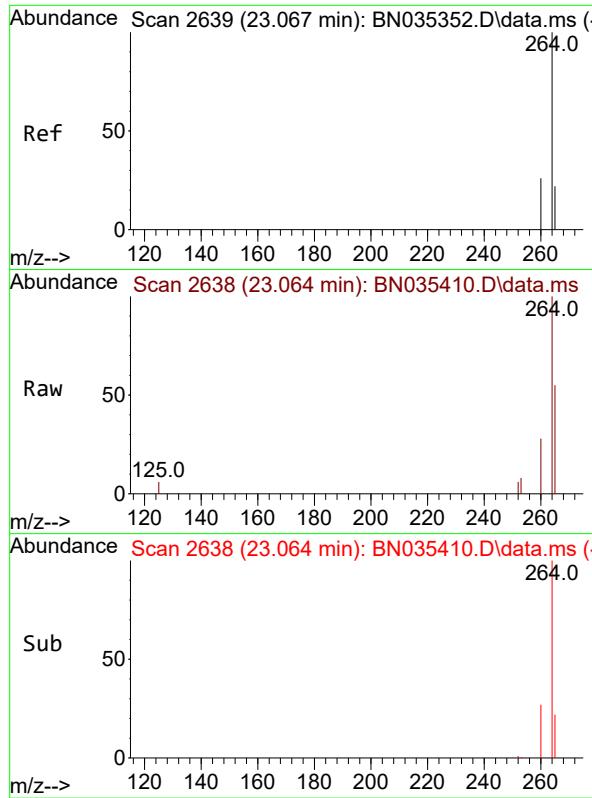
Tgt Ion:244 Resp: 9247
 Ion Ratio Lower Upper
 244 100
 212 10.0 8.1 12.1
 122 12.6 10.3 15.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.069 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

Tgt Ion:149 Resp: 831
 Ion Ratio Lower Upper
 149 100
 167 23.7 22.2 33.4
 279 4.2 2.7 4.1#

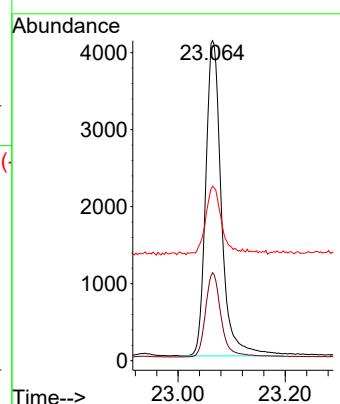




#35
 Perylene-d₁₂
 Concen: 0.400 ng
 RT: 23.064 min Scan# 2
 Delta R.T. -0.003 min
 Lab File: BN035410.D
 Acq: 03 Dec 2024 19:24

Instrument : BNA_N
 ClientSampleId : RW7-SP200-20241202

Tgt Ion:264 Resp: 8373
 Ion Ratio Lower Upper
 264 100
 260 27.5 21.4 32.2
 265 54.6 40.2 60.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035411.D
 Acq On : 03 Dec 2024 20:00
 Operator : RC/JU
 Sample : P5065-05
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 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

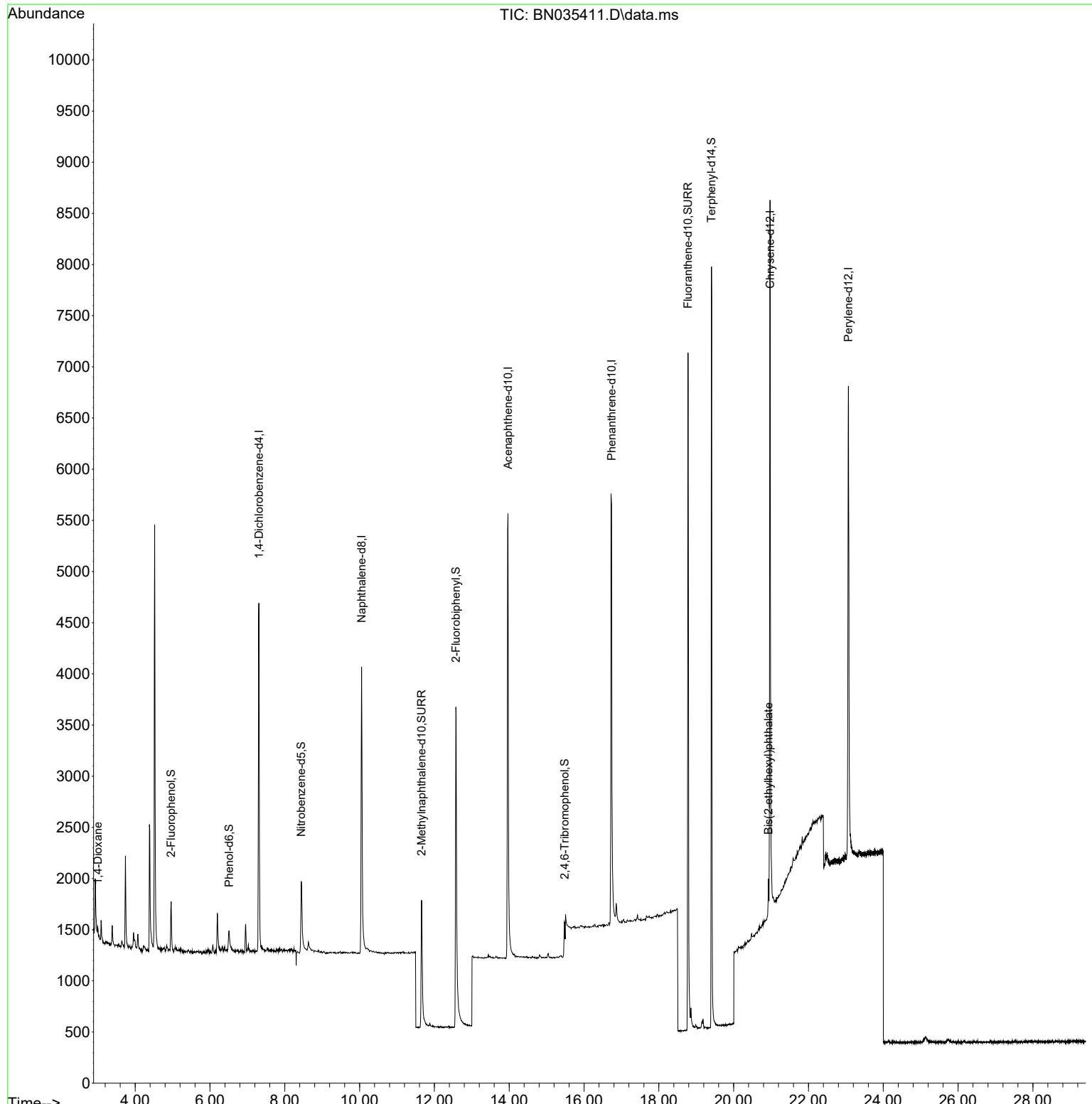
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1851	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4555	0.400	ng	0.00
13) Acenaphthene-d10	13.967	164	3248	0.400	ng	0.00
19) Phenanthrene-d10	16.736	188	8127	0.400	ng	# 0.00
29) Chrysene-d12	20.974	240	6931	0.400	ng	0.00
35) Perylene-d12	23.067	264	6312	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.961	112	428	0.092	ng	0.00
5) Phenol-d6	6.513	99	268	0.048	ng	0.00
8) Nitrobenzene-d5	8.440	82	1114	0.400	ng	0.00
11) 2-Methylnaphthalene-d10	11.656	152	2531	0.355	ng	0.00
14) 2,4,6-Tribromophenol	15.485	330	441	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.574	172	4425	0.360	ng	0.00
27) Fluoranthene-d10	18.780	212	8690	0.377	ng	0.00
31) Terphenyl-d14	19.407	244	7900	0.578	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	3.003	88	109	0.062	ng	# 68
34) Bis(2-ethylhexyl)phtha...	20.929	149	402	0.042	ng	93

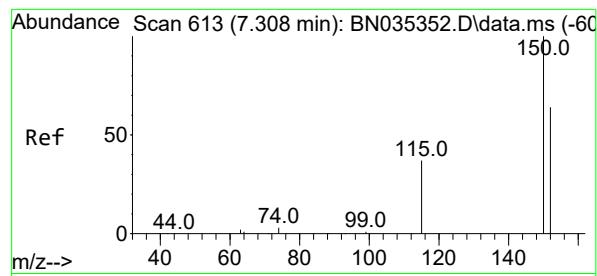
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
Data File : BN035411.D
Acq On : 03 Dec 2024 20:00
Operator : RC/JU
Sample : P5065-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

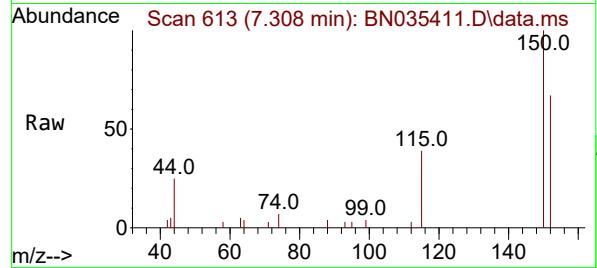
Instrument :
BNA_N
ClientSampleId :
RW7-SP201-20241202

Quant Time: Dec 03 22:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 23:03:24 2024
Response via : Initial Calibration

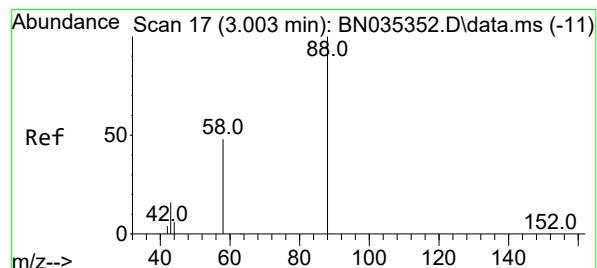
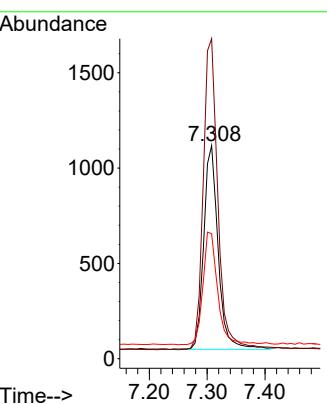
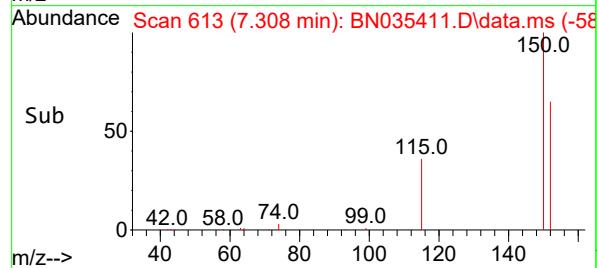




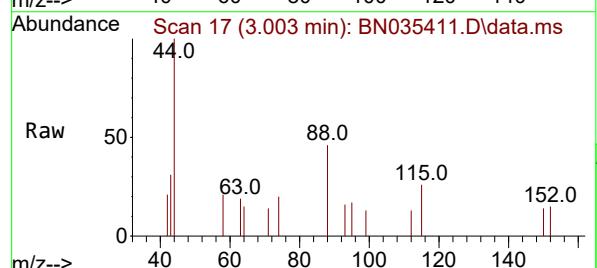
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00
Instrument: BNA_N
ClientSampleId: RW7-SP201-20241202



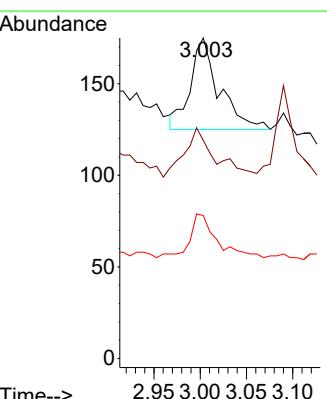
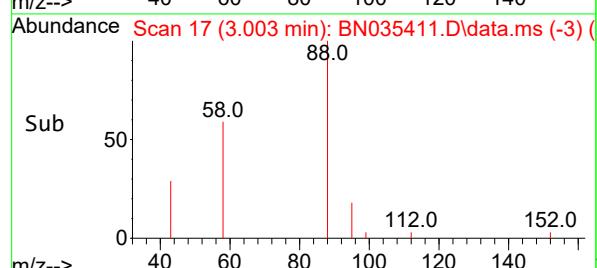
Tgt Ion:152 Resp: 1851
Ion Ratio Lower Upper
152 100
150 150.2 124.0 186.0
115 58.7 49.6 74.4

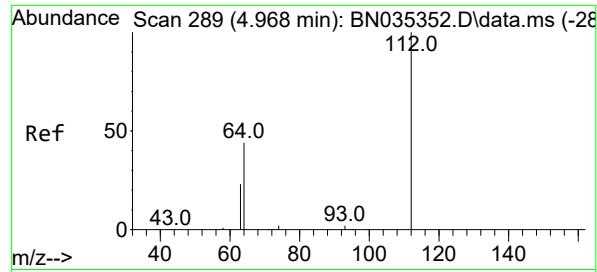


#2
1,4-Dioxane
Concen: 0.062 ng
RT: 3.003 min Scan# 17
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

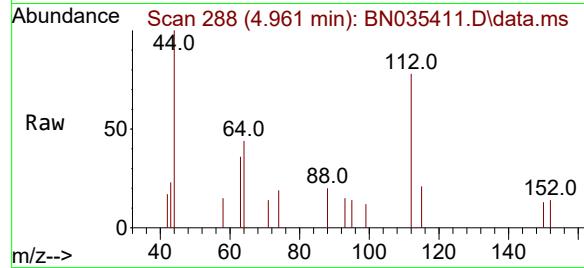


Tgt Ion: 88 Resp: 109
Ion Ratio Lower Upper
88 100
43 56.9 17.2 25.8#
58 44.0 44.5 66.7#

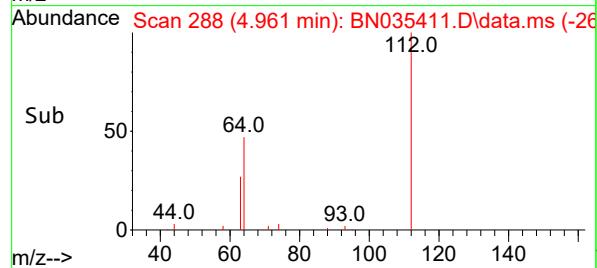
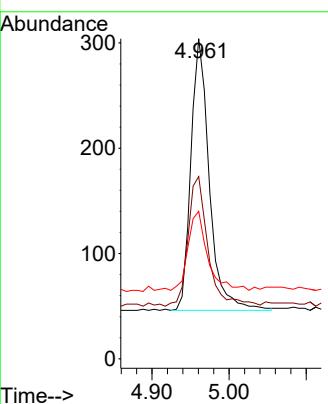




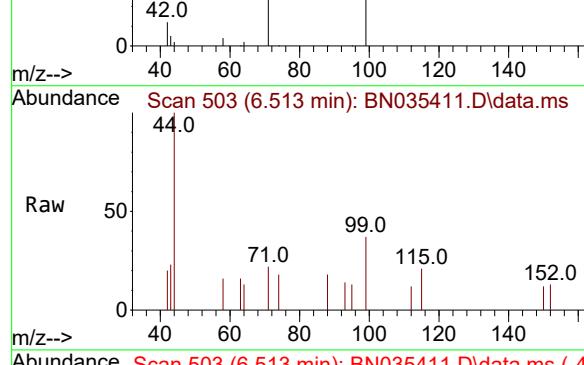
#4
 2-Fluorophenol
 Concen: 0.092 ng
 RT: 4.961 min Scan# 2
Instrument :
 Delta R.T. -0.007 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00
ClientSampleId :
 RW7-SP201-20241202



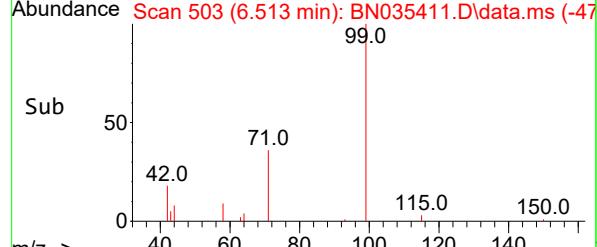
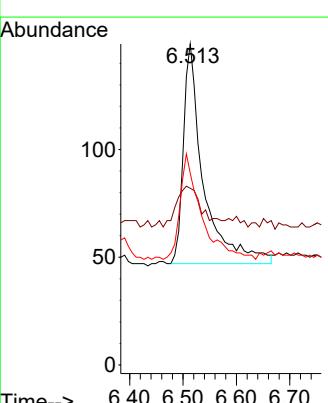
Tgt Ion:112 Resp: 428
 Ion Ratio Lower Upper
 112 100
 64 51.6 39.8 59.8
 63 30.6 21.0 31.6

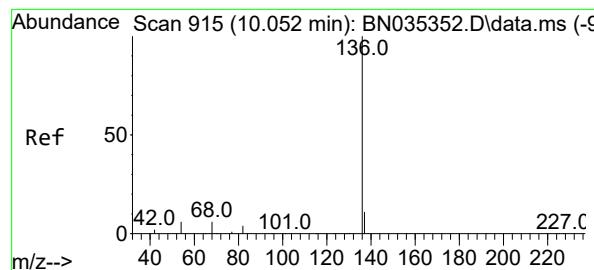


#5
 Phenol-d6
 Concen: 0.048 ng
 RT: 6.513 min Scan# 503
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00



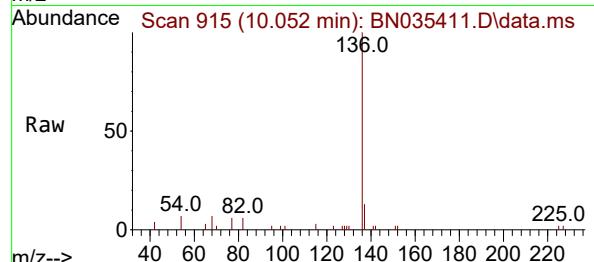
Tgt Ion: 99 Resp: 268
 Ion Ratio Lower Upper
 99 100
 42 23.1 11.4 17.2#
 71 50.7 29.3 43.9#





#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Instrument : BNA_N
 ClientSampleId : RW7-SP201-20241202

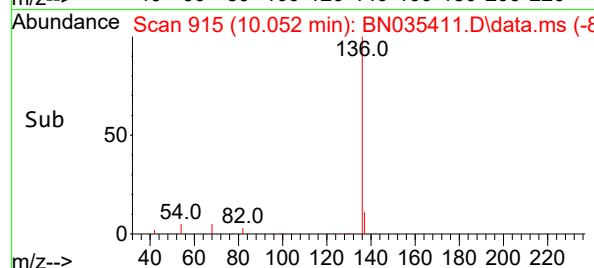
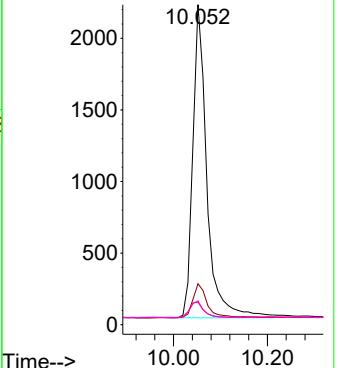


Tgt Ion:136 Resp: 4555

Ion Ratio Lower Upper

136	100
137	12.8
54	7.1
68	7.5
	10.2
	6.1
	6.4
	15.2
	9.1
	9.6

Abundance

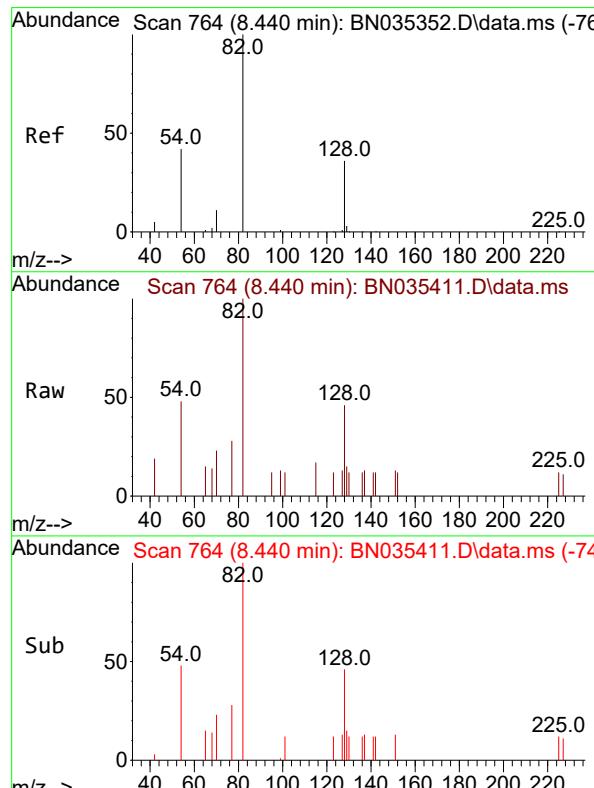
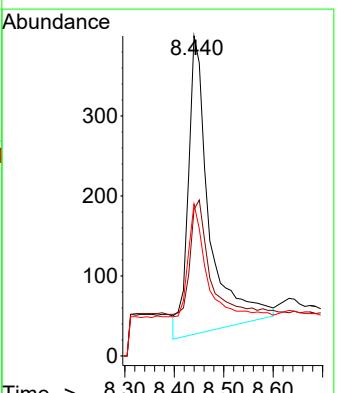


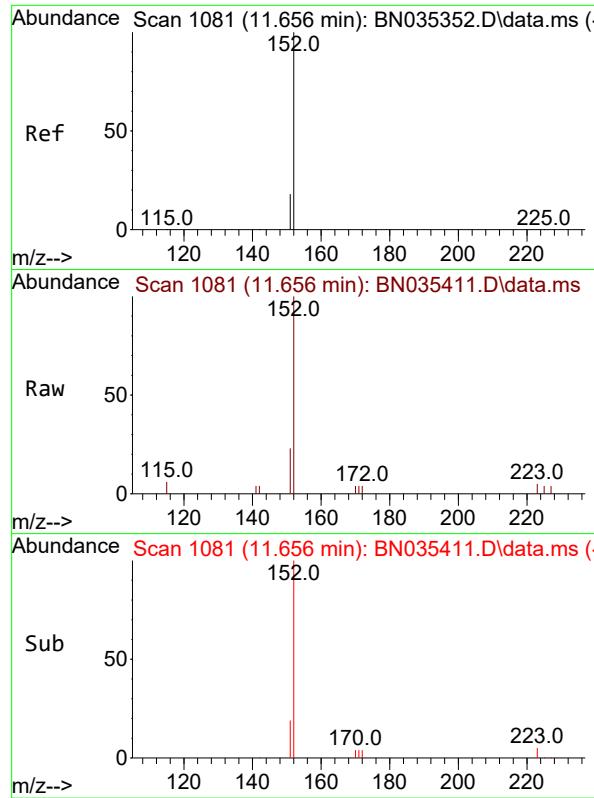
#8
 Nitrobenzene-d5
 Concen: 0.400 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

Tgt Ion: 82 Resp: 1114

Ion Ratio Lower Upper

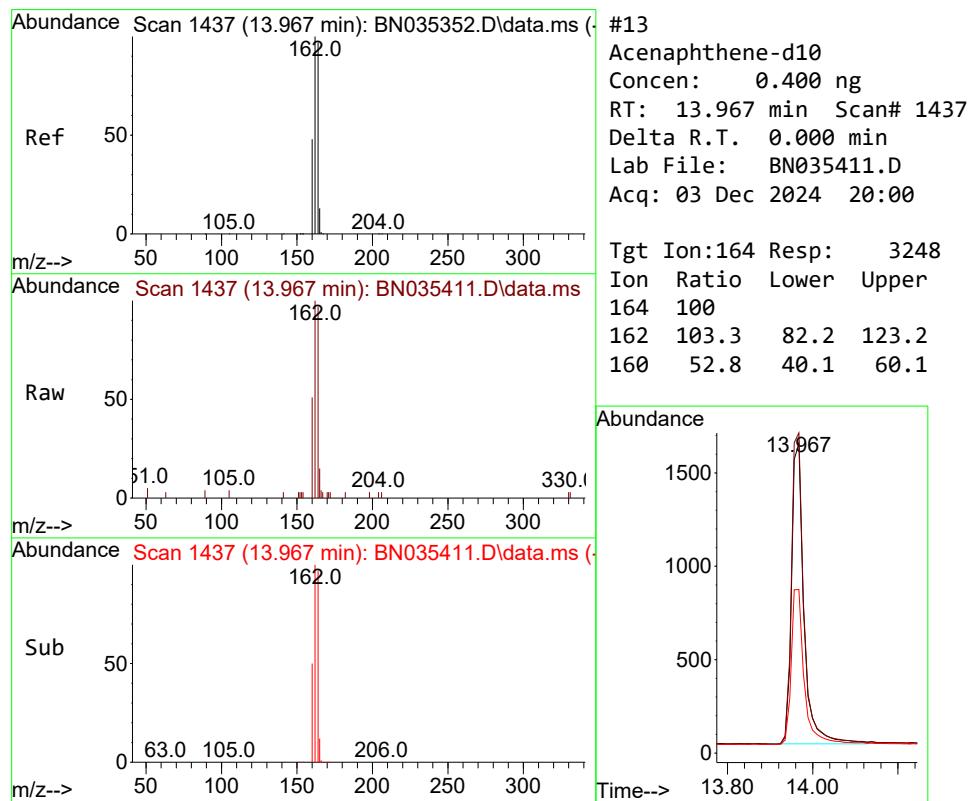
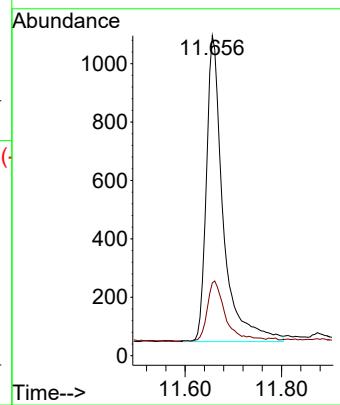
82	100
128	45.8
54	47.5
	33.4
	36.7
	50.0
	55.1





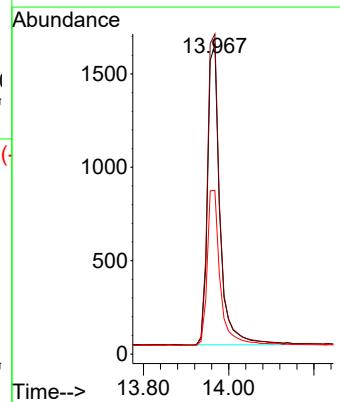
#11
2-Methylnaphthalene-d10
Concen: 0.355 ng
RT: 11.656 min Scan# 1
Instrument : BNA_N
Delta R.T. 0.000 min
Lab File: BN035411.D
ClientSampleId : RW7-SP201-20241202
Acq: 03 Dec 2024 20:00

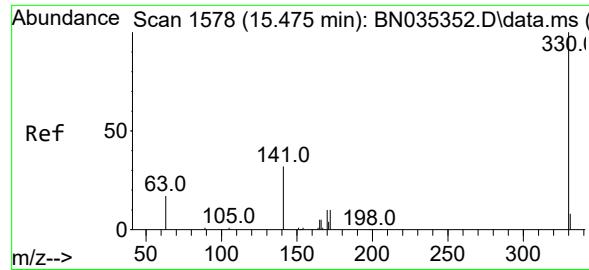
Tgt Ion:152 Resp: 2531
Ion Ratio Lower Upper
152 100
151 21.2 16.6 25.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.967 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

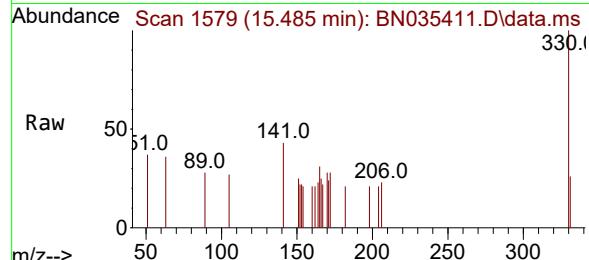
Tgt Ion:164 Resp: 3248
Ion Ratio Lower Upper
164 100
162 103.3 82.2 123.2
160 52.8 40.1 60.1



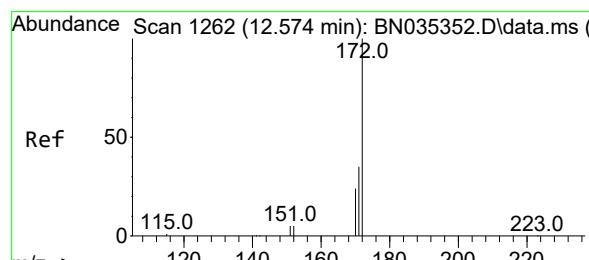
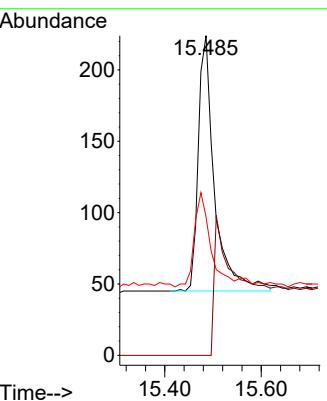
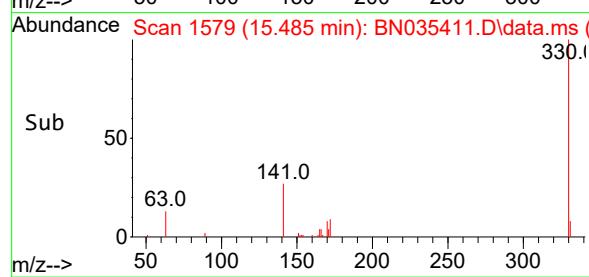


#14
2,4,6-Tribromophenol
Concen: 0.191 ng
RT: 15.485 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00

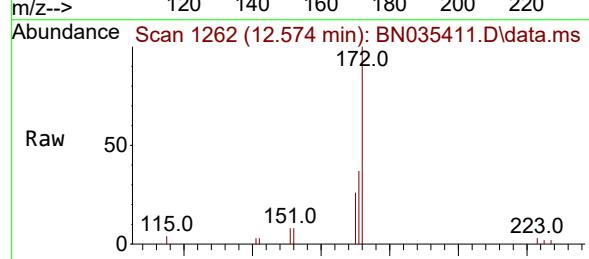
Instrument : BNA_N
ClientSampleId : RW7-SP201-20241202



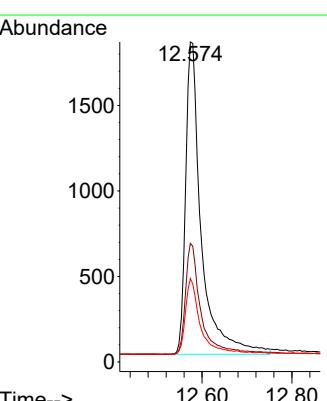
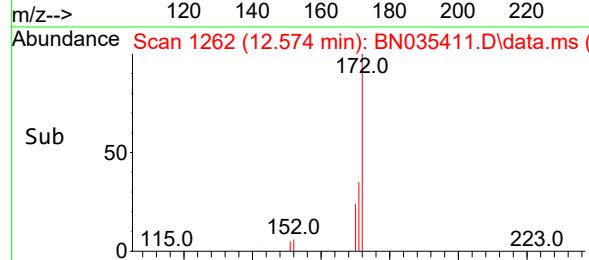
Tgt Ion:330 Resp: 441
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 40.8 26.6 40.0#

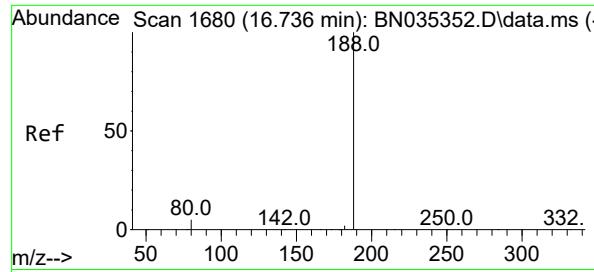


#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.574 min Scan# 1262
Delta R.T. 0.000 min
Lab File: BN035411.D
Acq: 03 Dec 2024 20:00



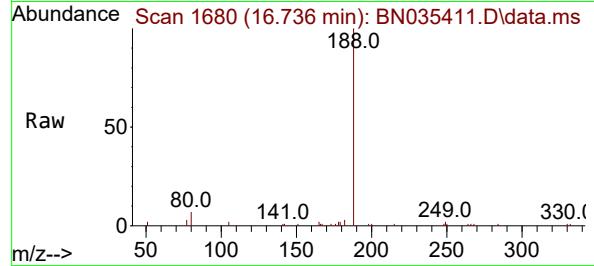
Tgt Ion:172 Resp: 4425
Ion Ratio Lower Upper
172 100
171 37.0 29.0 43.4
170 26.1 19.8 29.8



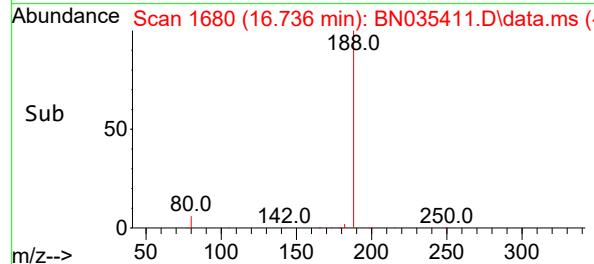
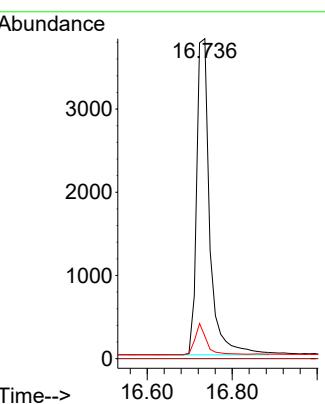


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.736 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

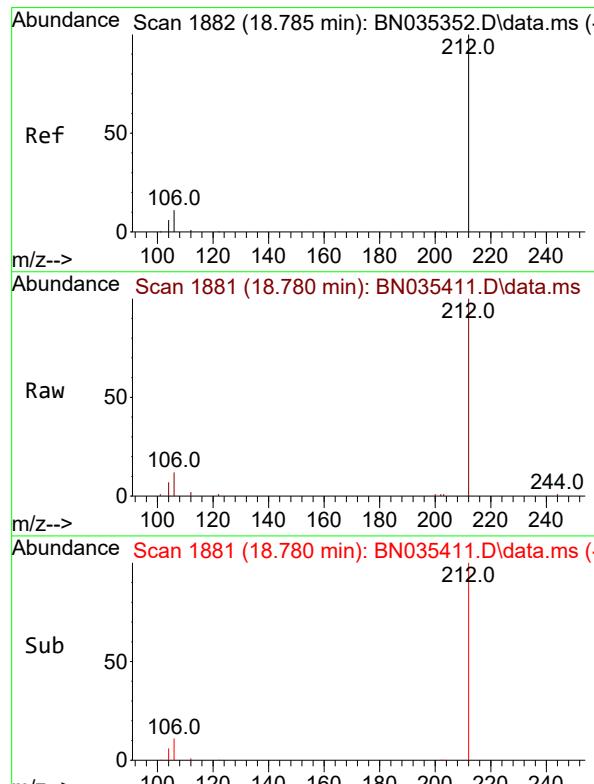
Instrument : BNA_N
 ClientSampleId : RW7-SP201-20241202



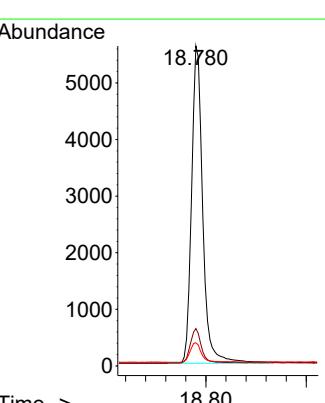
Tgt Ion:188 Resp: 8127
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 7.0 4.6 6.8#

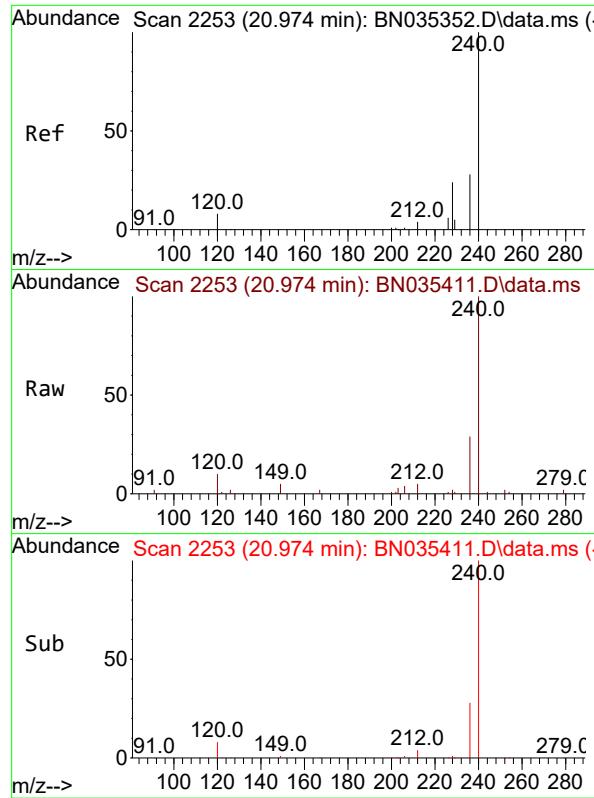


#27
 Fluoranthene-d10
 Concen: 0.377 ng
 RT: 18.780 min Scan# 1881
 Delta R.T. -0.005 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00



Tgt Ion:212 Resp: 8690
 Ion Ratio Lower Upper
 212 100
 106 10.5 9.2 13.8
 104 6.5 5.3 7.9

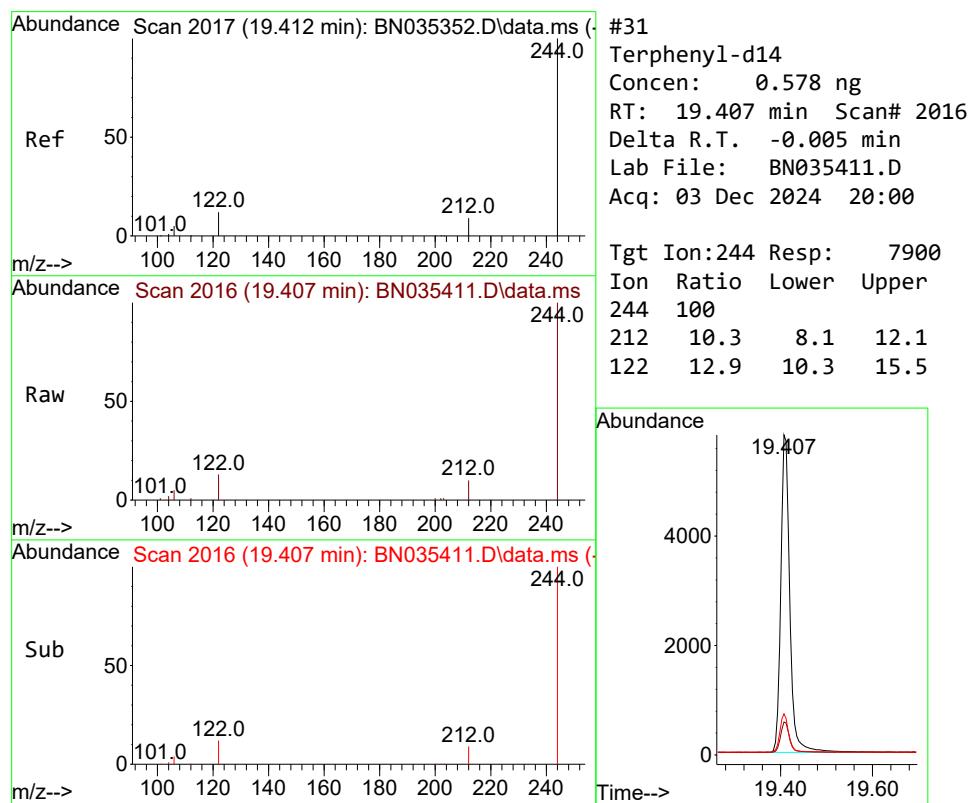
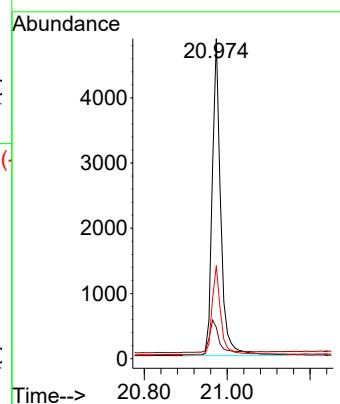




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.974 min Scan# 2
 Delta R.T. 0.000 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

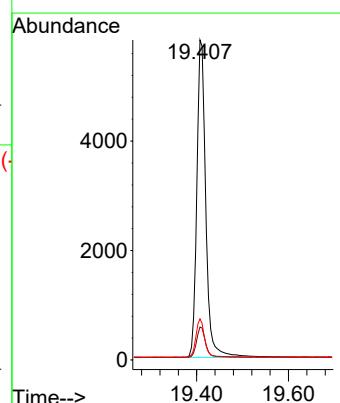
Instrument : BNA_N
 ClientSampleId : RW7-SP201-20241202

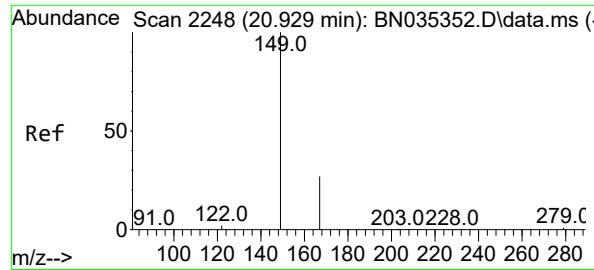
Tgt Ion:240 Resp: 6931
 Ion Ratio Lower Upper
 240 100
 120 9.7 7.9 11.9
 236 29.1 22.9 34.3



#31
 Terphenyl-d14
 Concen: 0.578 ng
 RT: 19.407 min Scan# 2016
 Delta R.T. -0.005 min
 Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

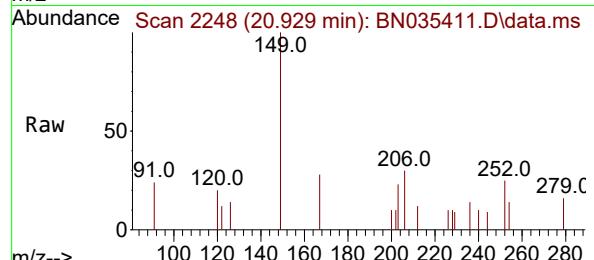
Tgt Ion:244 Resp: 7900
 Ion Ratio Lower Upper
 244 100
 212 10.3 8.1 12.1
 122 12.9 10.3 15.5



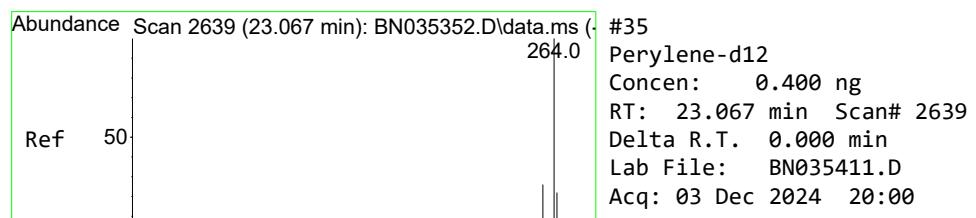
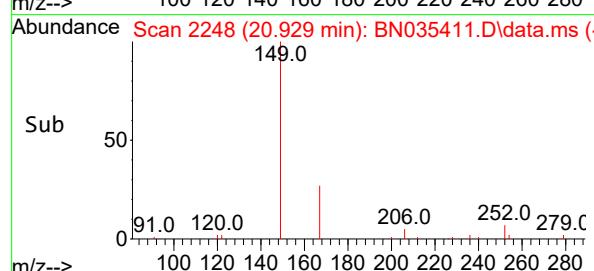
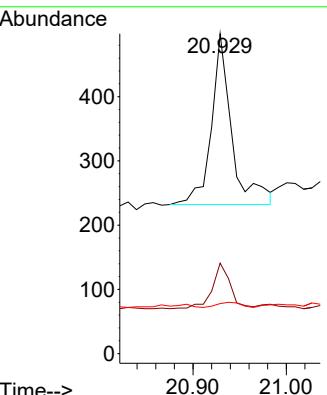


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.042 ng
 RT: 20.929 min Scan# 2
 Delta R.T. 0.000 min Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00

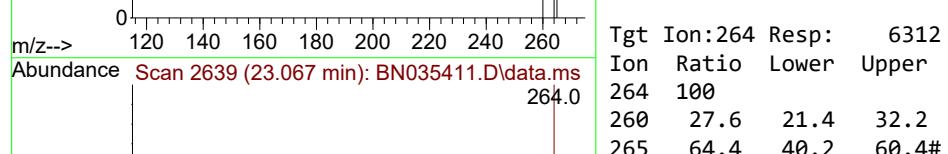
Instrument : BNA_N
 ClientSampleId : RW7-SP201-20241202



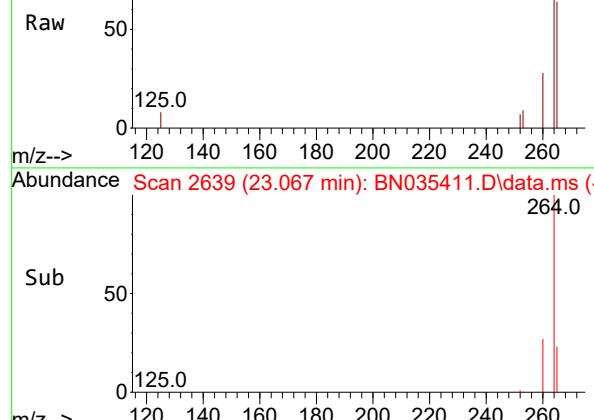
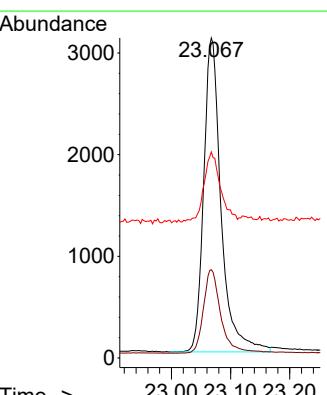
Tgt Ion:149 Resp: 402
 Ion Ratio Lower Upper
 149 100
 167 23.9 22.2 33.4
 279 3.2 2.7 4.1



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.067 min Scan# 2639
 Delta R.T. 0.000 min Lab File: BN035411.D
 Acq: 03 Dec 2024 20:00



Tgt Ion:264 Resp: 6312
 Ion Ratio Lower Upper
 264 100
 260 27.6 21.4 32.2
 265 64.4 40.2 60.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Dec 03 22:06:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112724.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration

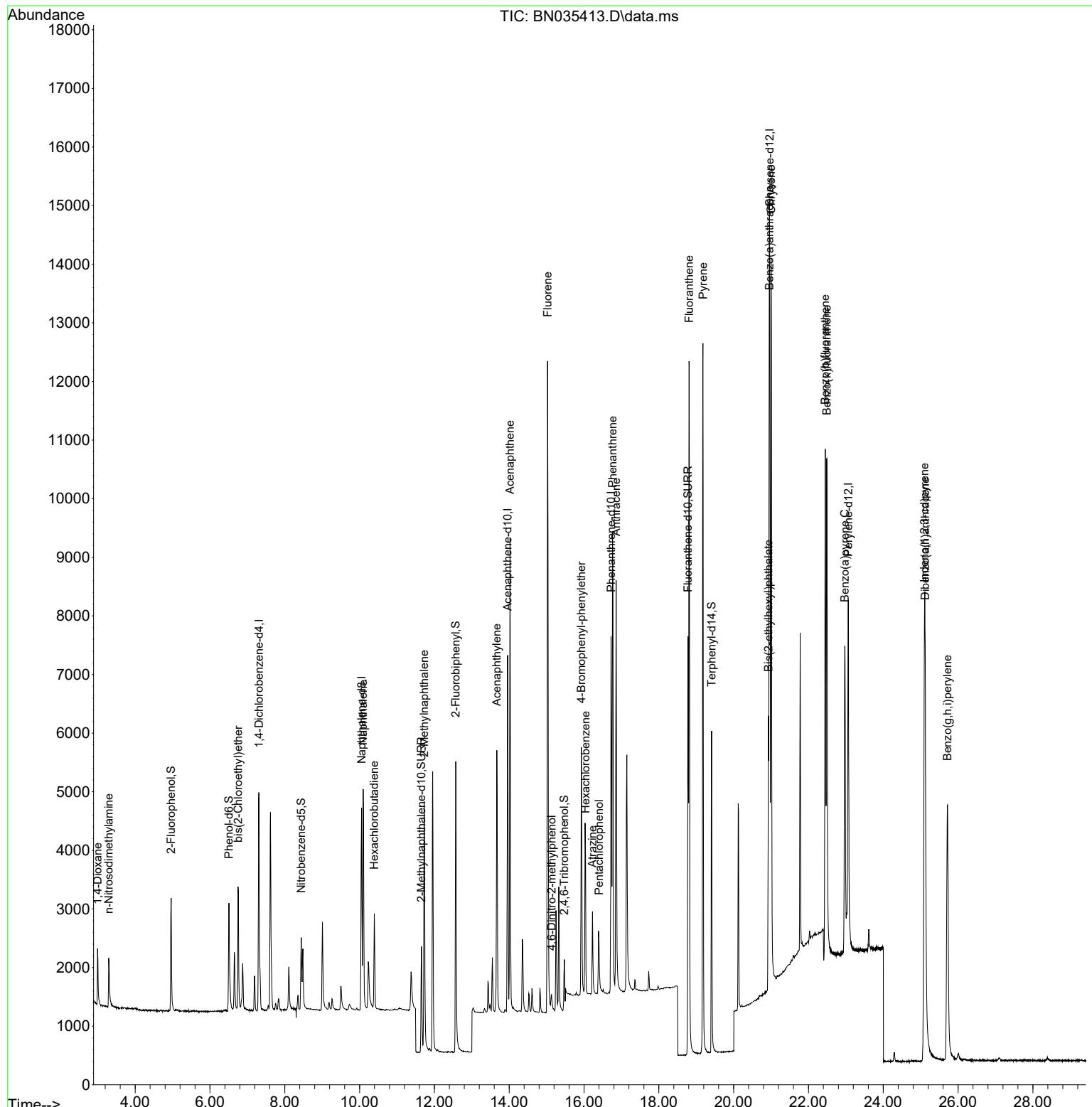
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.308	152	1905	0.400	ng	0.00
7) Naphthalene-d8	10.052	136	4842	0.400	ng	# 0.00
13) Acenaphthene-d10	13.957	164	3417	0.400	ng	-0.01
19) Phenanthrene-d10	16.723	188	8599	0.400	ng	#-0.01
29) Chrysene-d12	20.965	240	7834	0.400	ng	# 0.00
35) Perylene-d12	23.064	264	7769	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	4.960	112	1727	0.362	ng	0.00
5) Phenol-d6	6.506	99	2086	0.364	ng	0.00
8) Nitrobenzene-d5	8.440	82	1366	0.462	ng	0.00
11) 2-Methylnaphthalene-d10	11.651	152	2948	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.475	330	874	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.569	172	5285	0.409	ng	0.00
27) Fluoranthene-d10	18.780	212	8797	0.361	ng	0.00
31) Terphenyl-d14	19.412	244	6230	0.403	ng	0.00
Target Compounds						
				Qvalue		
2) 1,4-Dioxane	2.996	88	731	0.401	ng	98
3) n-Nitrosodimethylamine	3.292	42	561	0.370	ng	# 91
6) bis(2-Chloroethyl)ether	6.752	93	1811	0.376	ng	98
9) Naphthalene	10.095	128	5107	0.400	ng	99
10) Hexachlorobutadiene	10.394	225	1291	0.438	ng	# 100
12) 2-Methylnaphthalene	11.727	142	3555	0.389	ng	98
16) Acenaphthylene	13.668	152	5470	0.381	ng	99
17) Acenaphthene	14.021	154	3732	0.392	ng	98
18) Fluorene	15.026	166	5390	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.133	198	303	0.358	ng	97
21) 4-Bromophenyl-phenylether	15.929	248	1954	0.388	ng	# 74
22) Hexachlorobenzene	16.040	284	2442	0.413	ng	97
23) Atrazine	16.227	200	1233	0.344	ng	97
24) Pentachlorophenol	16.400	266	742	0.289	ng	87
25) Phenanthrene	16.760	178	9217	0.390	ng	100
26) Anthracene	16.860	178	7974	0.373	ng	100
28) Fluoranthene	18.812	202	11723	0.368	ng	99
30) Pyrene	19.179	202	11845	0.410	ng	100
32) Benzo(a)anthracene	20.956	228	10025	0.366	ng	100
33) Chrysene	21.001	228	11323	0.401	ng	99
34) Bis(2-ethylhexyl)phtha...	20.929	149	3811	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	25.099	276	11352	0.374	ng	98
37) Benzo(b)fluoranthene	22.448	252	12967	0.456	ng	100
38) Benzo(k)fluoranthene	22.488	252	11373	0.407	ng	99
39) Benzo(a)pyrene	22.974	252	8498	0.363	ng	98
40) Dibenzo(a,h)anthracene	25.120	278	8673	0.362	ng	98
41) Benzo(g,h,i)perylene	25.716	276	9224	0.368	ng	99

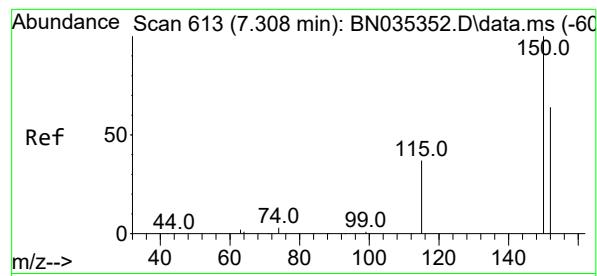
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120424\
 Data File : BN035413.D
 Acq On : 03 Dec 2024 21:11
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

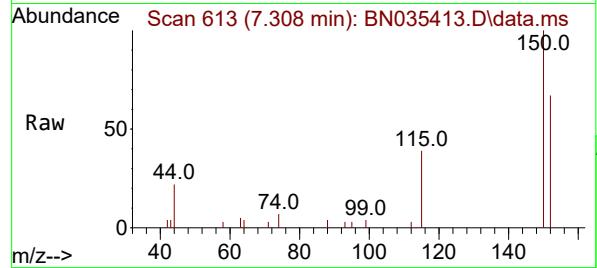
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 QLast Update : Wed Nov 27 23:03:24 2024
 Response via : Initial Calibration



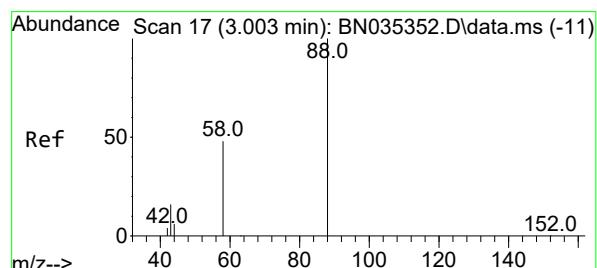
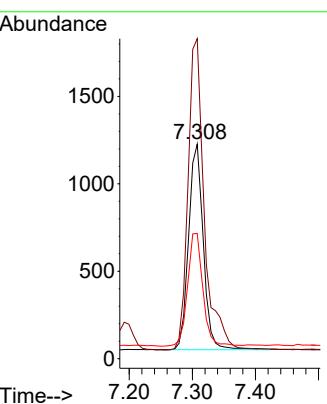
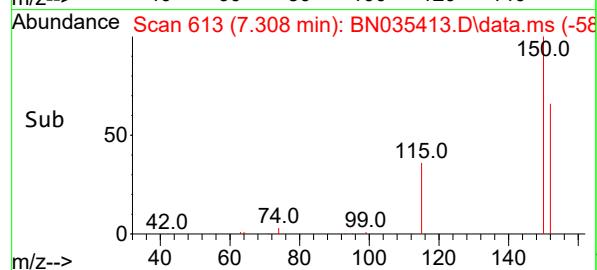


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.308 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

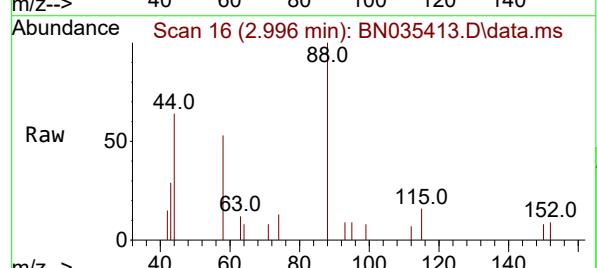
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



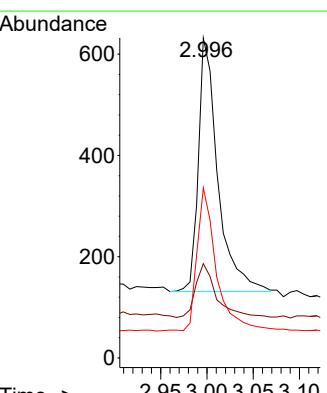
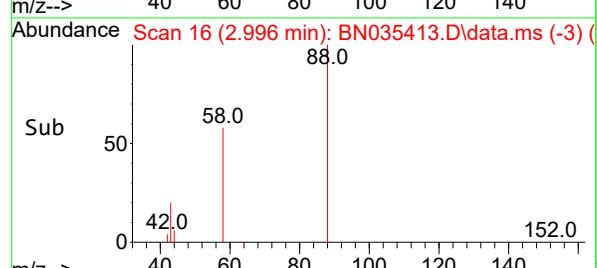
Tgt Ion:152 Resp: 1905
Ion Ratio Lower Upper
152 100
150 149.1 124.0 186.0
115 58.4 49.6 74.4

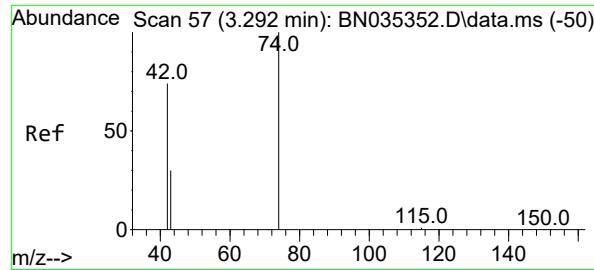


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 2.996 min Scan# 16
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



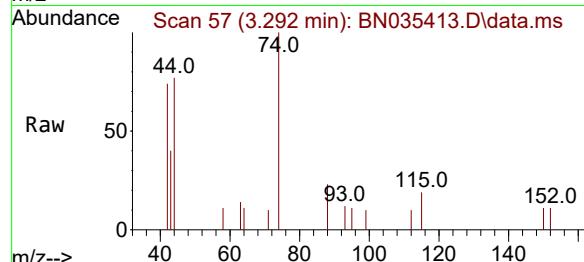
Tgt Ion: 88 Resp: 731
Ion Ratio Lower Upper
88 100
43 22.7 17.2 25.8
58 56.6 44.5 66.7



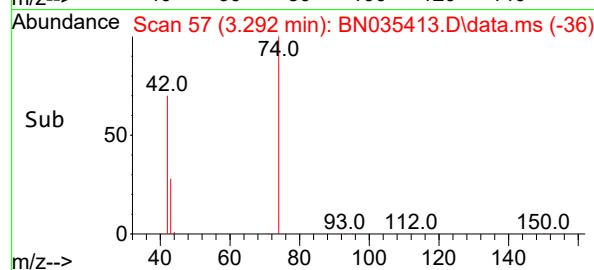
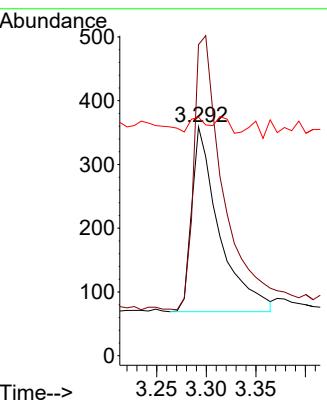


#3
n-Nitrosodimethylamine
Concen: 0.370 ng
RT: 3.292 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

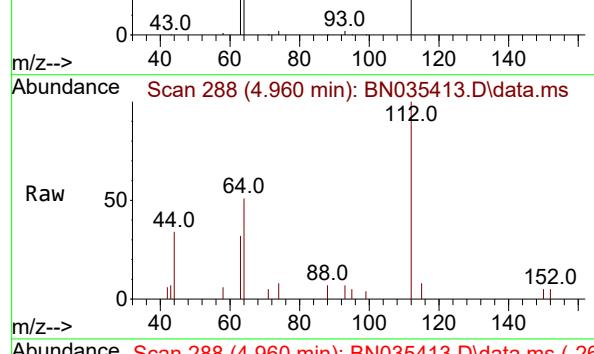
Instrument: BNA_N
ClientSampleId: SSTDCCC0.4EC



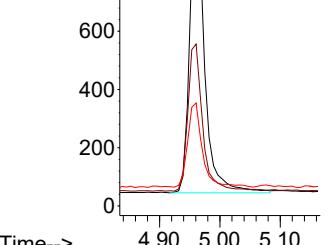
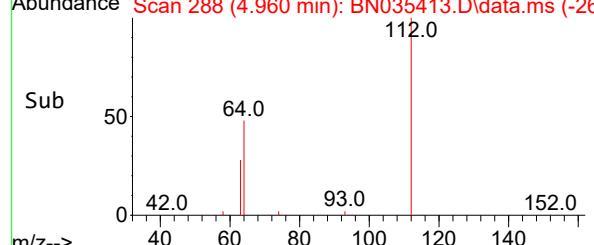
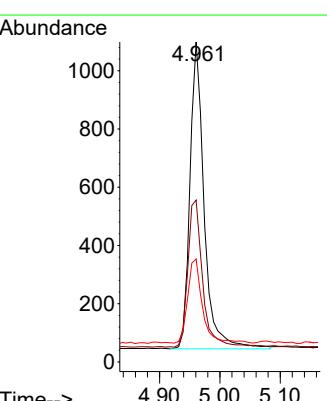
Tgt Ion: 42 Resp: 561
Ion Ratio Lower Upper
42 100
74 167.4 124.9 187.3
44 5.0 2.2 3.4#

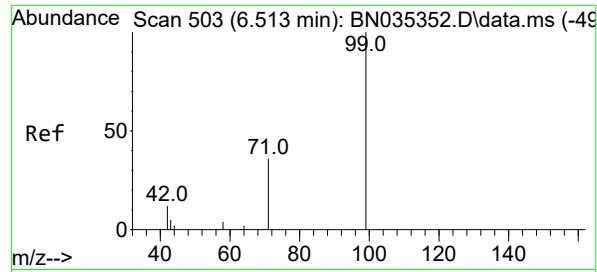


#4
2-Fluorophenol
Concen: 0.362 ng
RT: 4.960 min Scan# 288
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



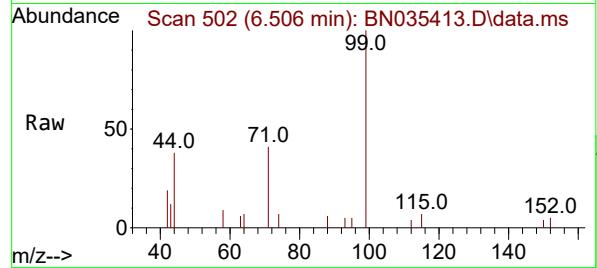
Tgt Ion:112 Resp: 1727
Ion Ratio Lower Upper
112 100
64 50.1 39.8 59.8
63 28.4 21.0 31.6



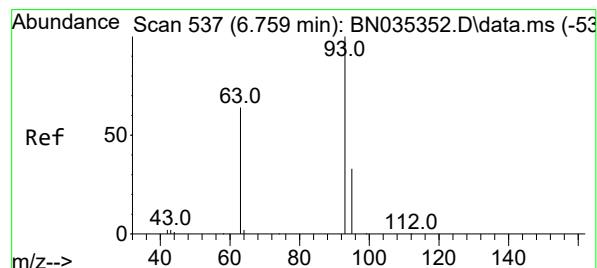
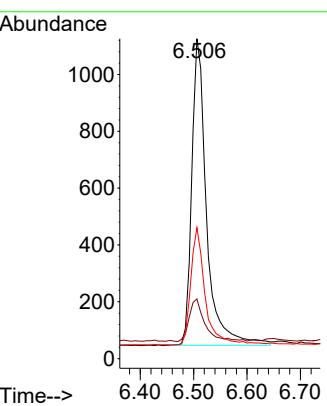
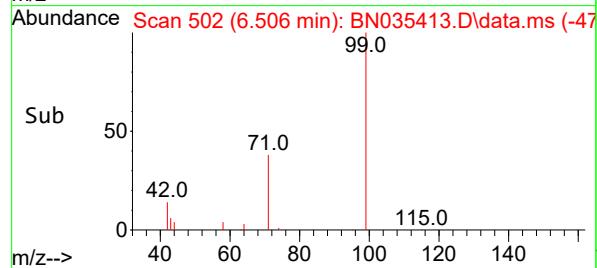


#5
Phenol-d6
Concen: 0.364 ng
RT: 6.506 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

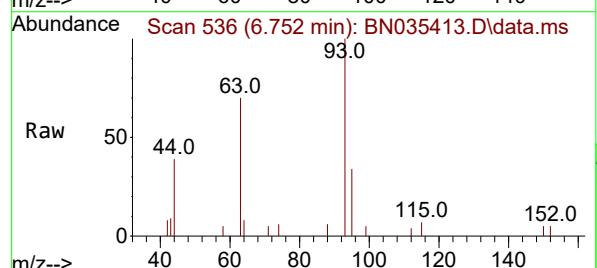
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



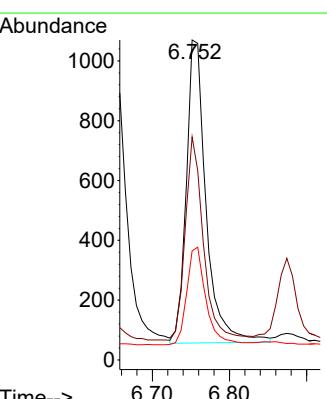
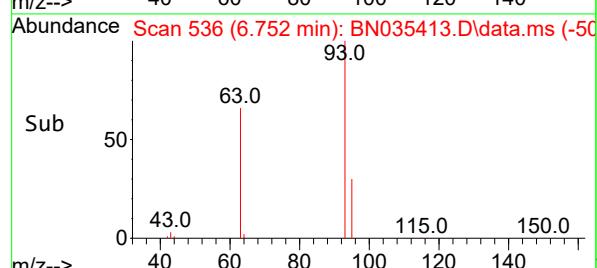
Tgt Ion: 99 Resp: 2086
Ion Ratio Lower Upper
99 100
42 15.0 11.4 17.2
71 37.5 29.3 43.9

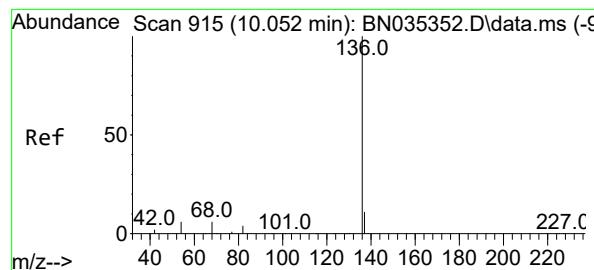


#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.007 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



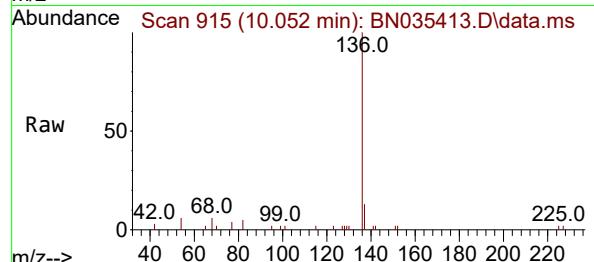
Tgt Ion: 93 Resp: 1811
Ion Ratio Lower Upper
93 100
63 61.8 50.4 75.6
95 31.1 25.7 38.5



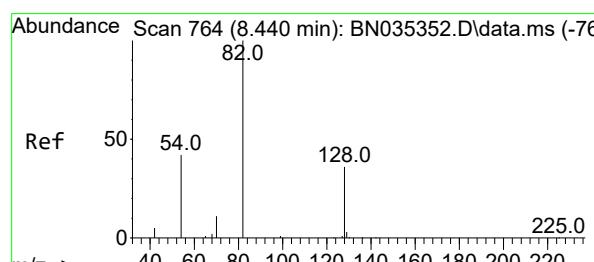
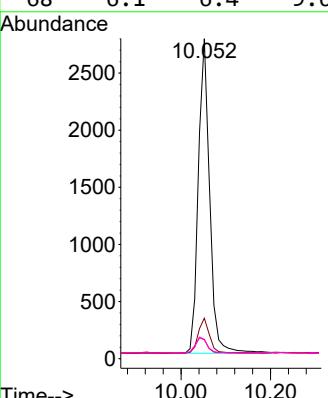
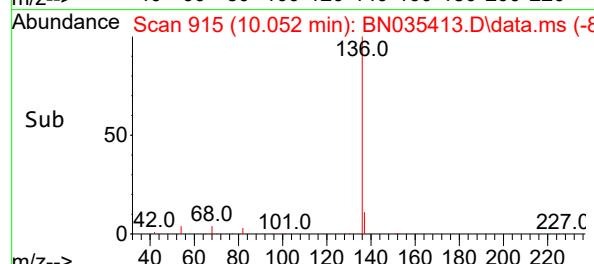


#7
 Naphthalene-d8
 Concen: 0.400 ng
 RT: 10.052 min Scan# 9
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

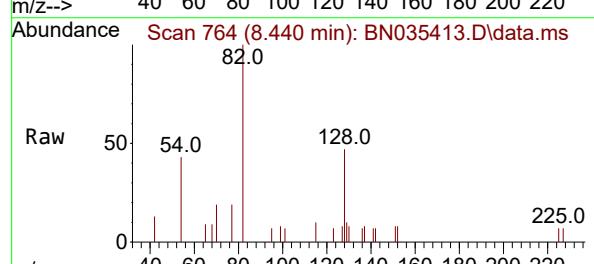
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC



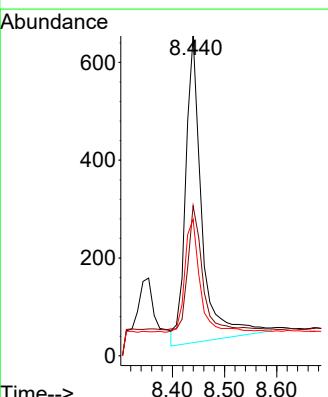
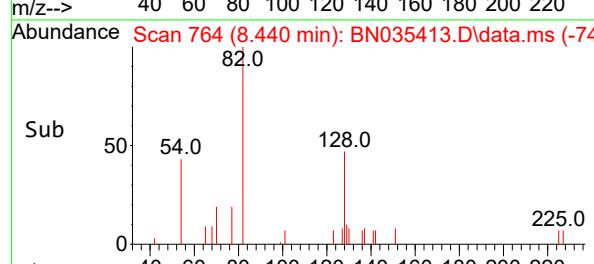
Tgt Ion:136 Resp: 4842
 Ion Ratio Lower Upper
 136 100
 137 12.7 10.2 15.2
 54 5.9 6.1 9.1#
 68 6.1 6.4 9.6#

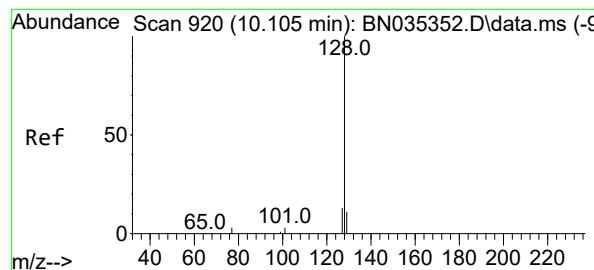


#8
 Nitrobenzene-d5
 Concen: 0.462 ng
 RT: 8.440 min Scan# 764
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11



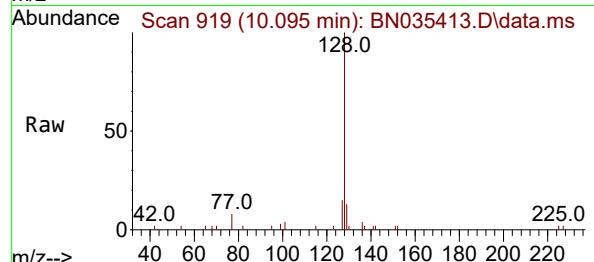
Tgt Ion: 82 Resp: 1366
 Ion Ratio Lower Upper
 82 100
 128 46.9 33.4 50.0
 54 42.7 36.7 55.1



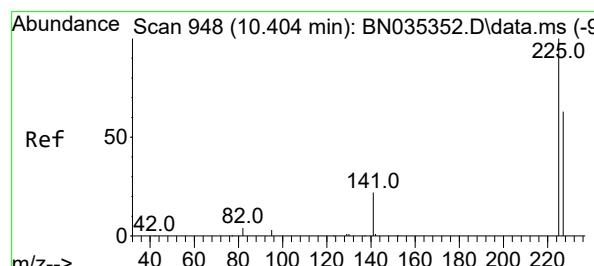
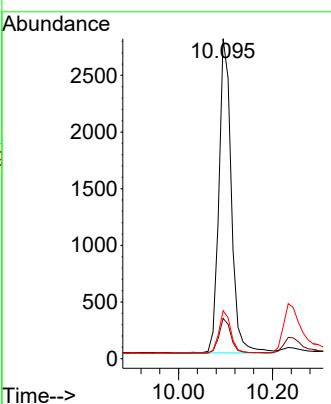
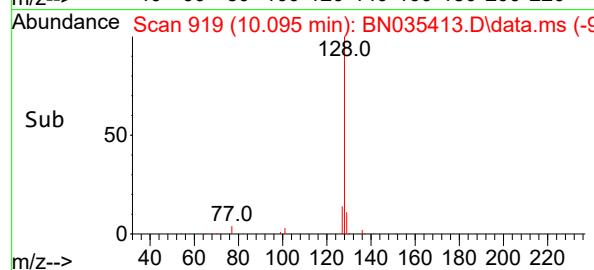


#9
Naphthalene
Concen: 0.400 ng
RT: 10.095 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

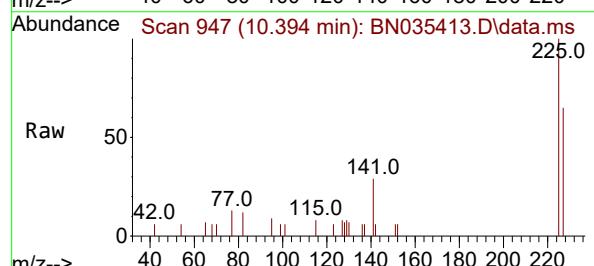
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ClientSampleId : SSTDCCC0.4EC



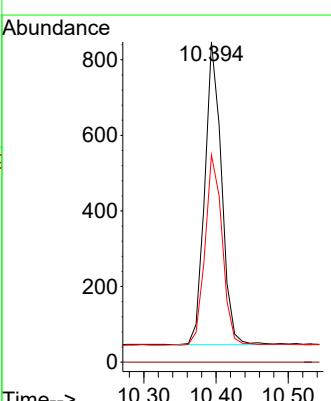
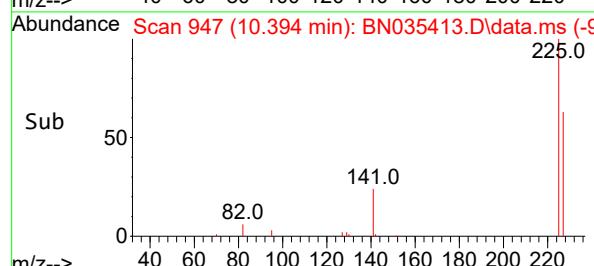
Tgt Ion:128 Resp: 5107
Ion Ratio Lower Upper
128 100
129 12.6 9.8 14.6
127 15.0 11.4 17.2

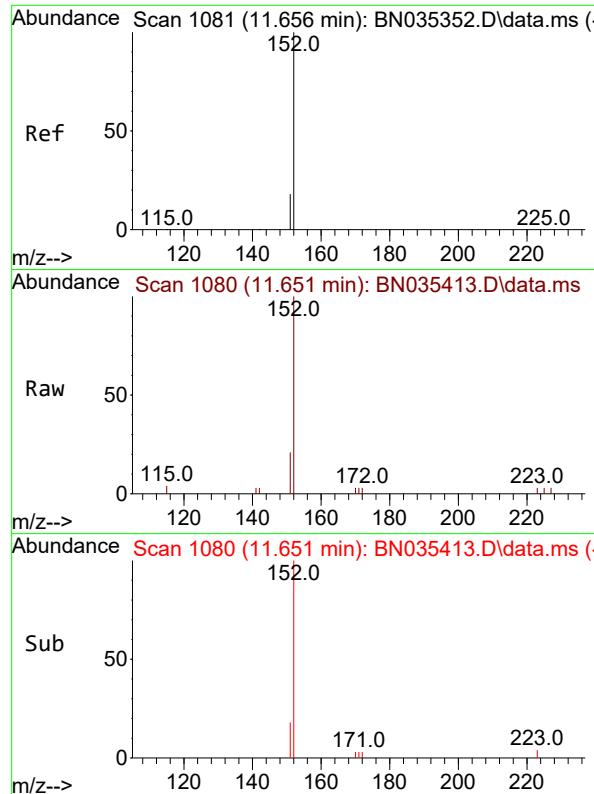


#10
Hexachlorobutadiene
Concen: 0.438 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



Tgt Ion:225 Resp: 1291
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9

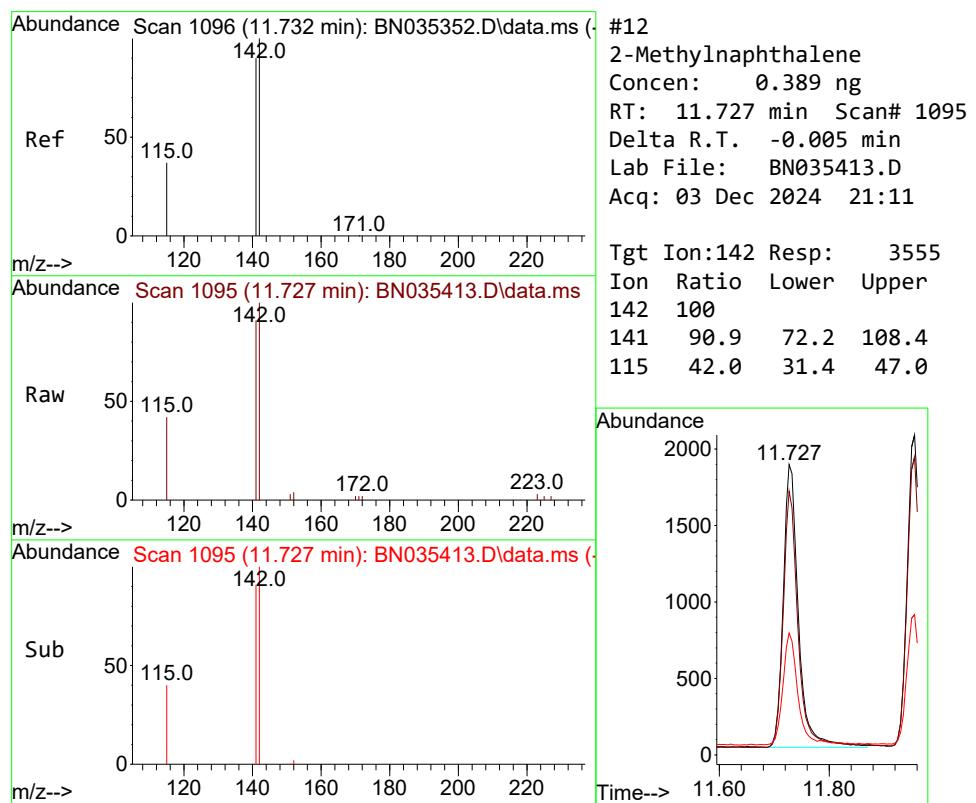
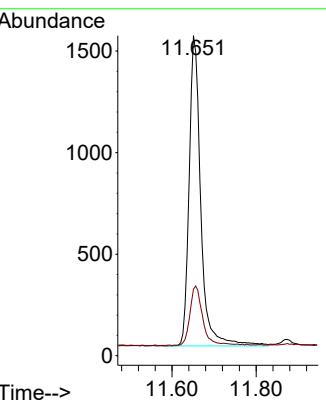




#11
 2-Methylnaphthalene-d10
 Concen: 0.389 ng
 RT: 11.651 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

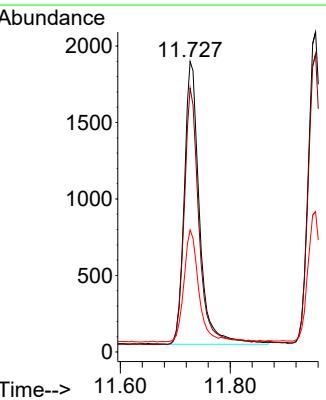
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 ClientSampleId : SSTDCCC0.4EC

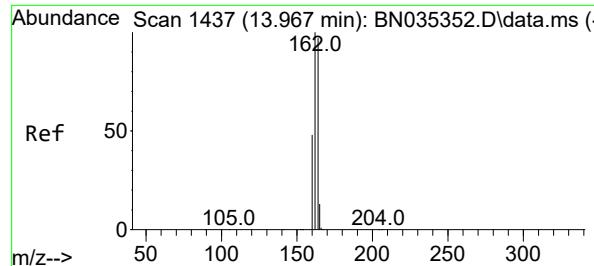
Tgt Ion:152 Resp: 2948
 Ion Ratio Lower Upper
 152 100
 151 20.7 16.6 25.0



#12
 2-Methylnaphthalene
 Concen: 0.389 ng
 RT: 11.727 min Scan# 1095
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

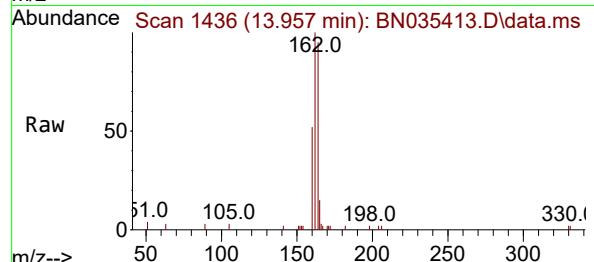
Tgt Ion:142 Resp: 3555
 Ion Ratio Lower Upper
 142 100
 141 90.9 72.2 108.4
 115 42.0 31.4 47.0



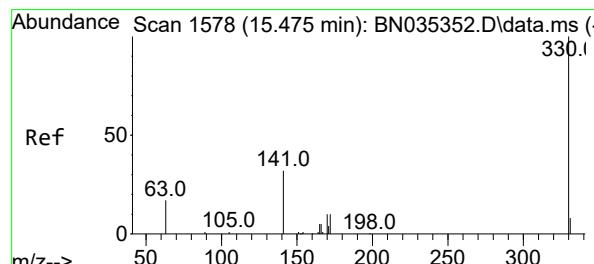
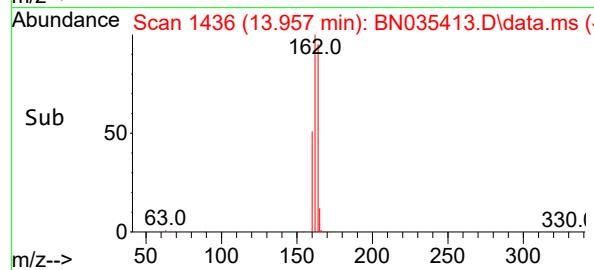
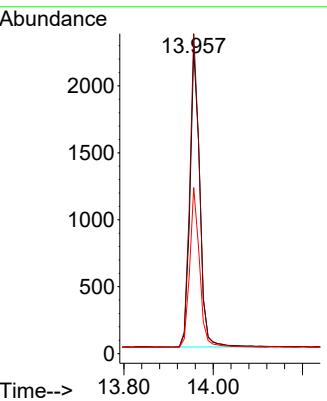


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

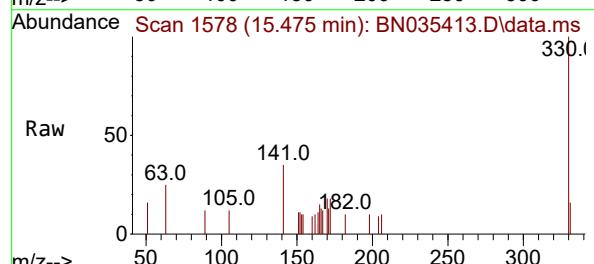
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



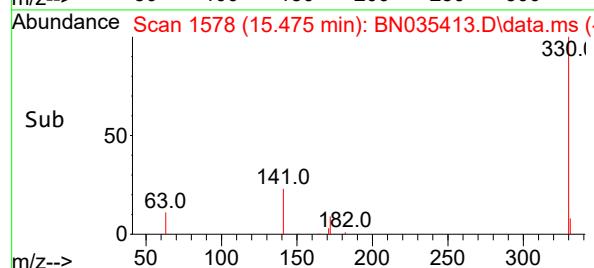
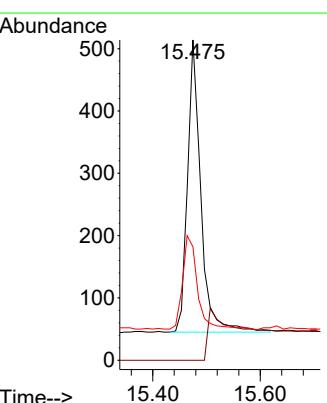
Tgt Ion:164 Resp: 3417
Ion Ratio Lower Upper
164 100
162 105.1 82.2 123.2
160 54.6 40.1 60.1

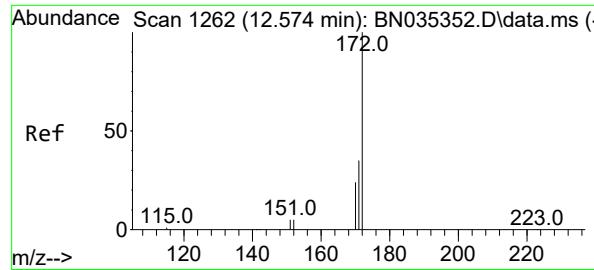


#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.475 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



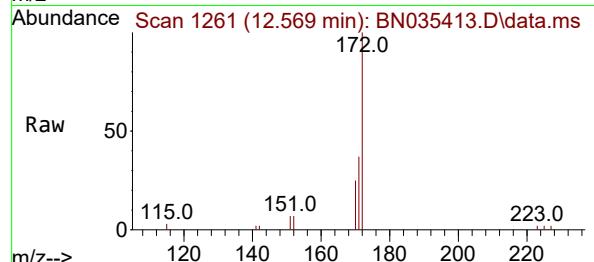
Tgt Ion:330 Resp: 874
Ion Ratio Lower Upper
330 100
332 0.0 0.0 0.0
141 35.7 26.6 40.0



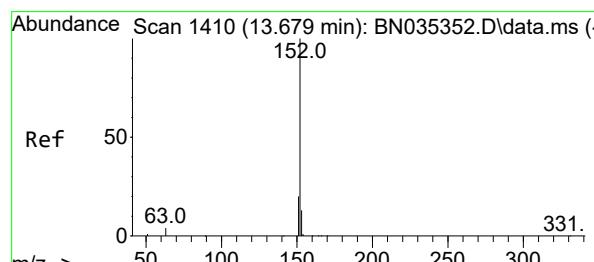
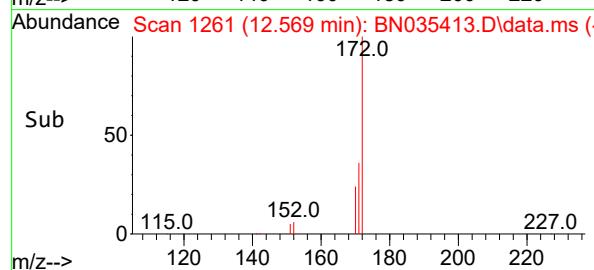
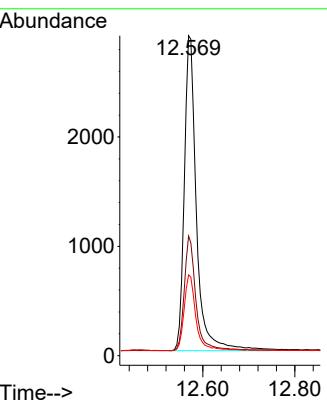


#15
2-Fluorobiphenyl
Concen: 0.409 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

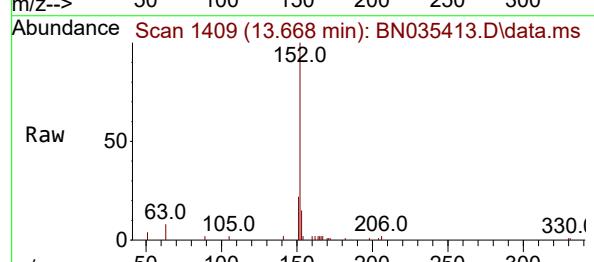
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



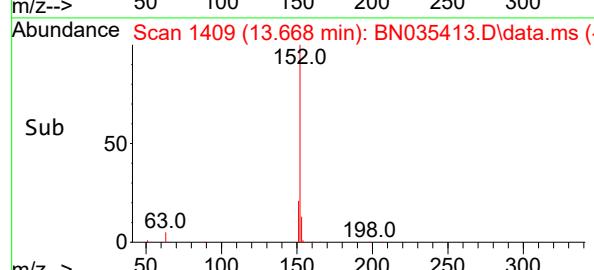
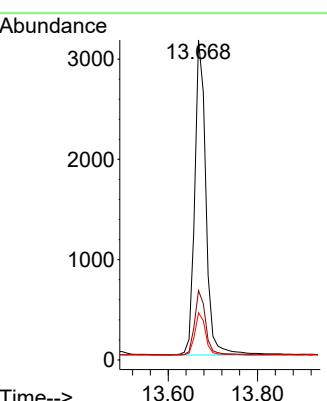
Tgt Ion:172 Resp: 5285
Ion Ratio Lower Upper
172 100
171 37.4 29.0 43.4
170 25.2 19.8 29.8

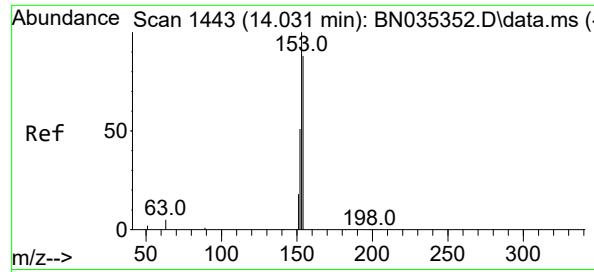


#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.668 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



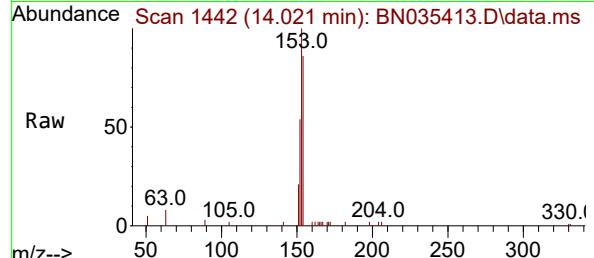
Tgt Ion:152 Resp: 5470
Ion Ratio Lower Upper
152 100
151 19.8 16.2 24.2
153 13.2 10.4 15.6



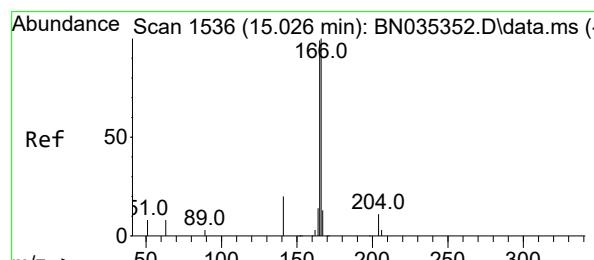
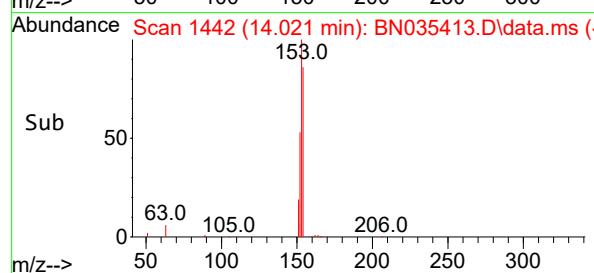
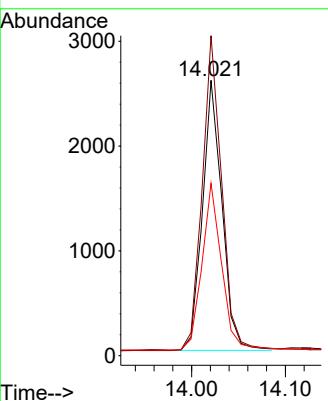


#17
 Acenaphthene
 Concen: 0.392 ng
 RT: 14.021 min Scan# 1
 Delta R.T. -0.011 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

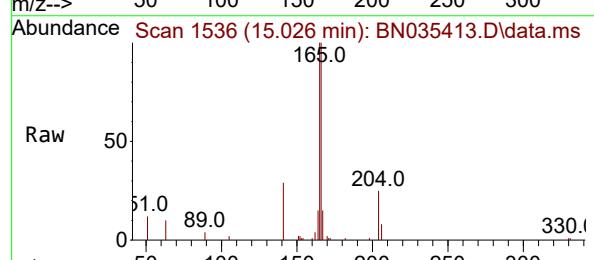
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC



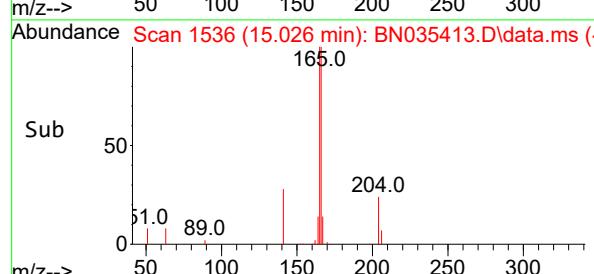
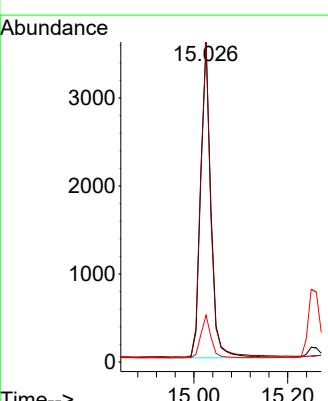
Tgt Ion:154 Resp: 3732
 Ion Ratio Lower Upper
 154 100
 153 117.7 92.6 139.0
 152 62.7 49.0 73.6

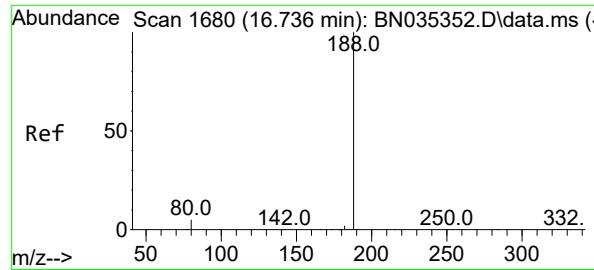


#18
 Fluorene
 Concen: 0.395 ng
 RT: 15.026 min Scan# 1536
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11



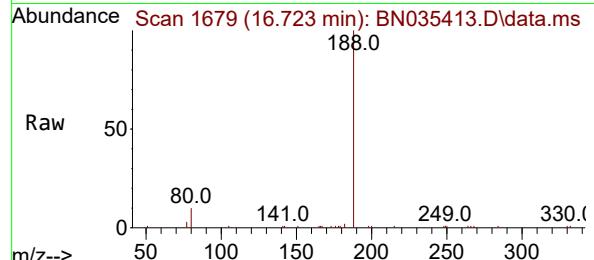
Tgt Ion:166 Resp: 5390
 Ion Ratio Lower Upper
 166 100
 165 99.3 79.7 119.5
 167 13.5 10.8 16.2



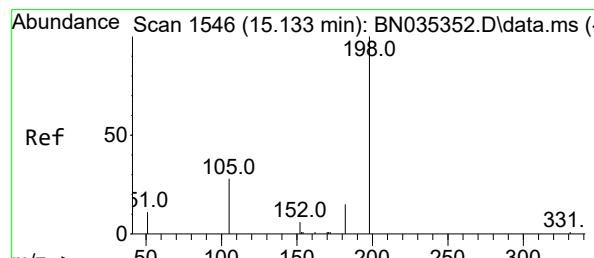
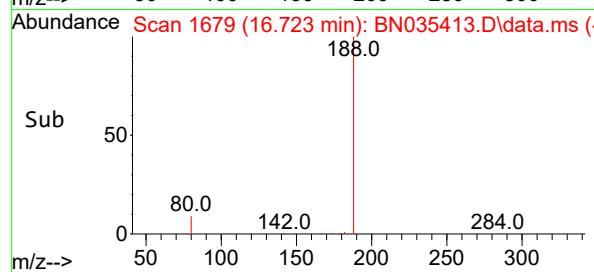
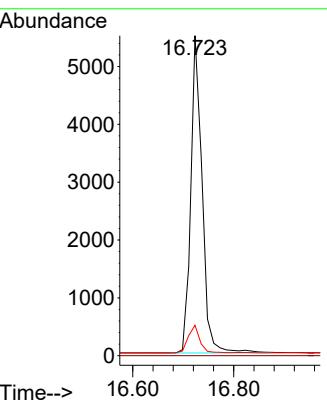


#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 16.723 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

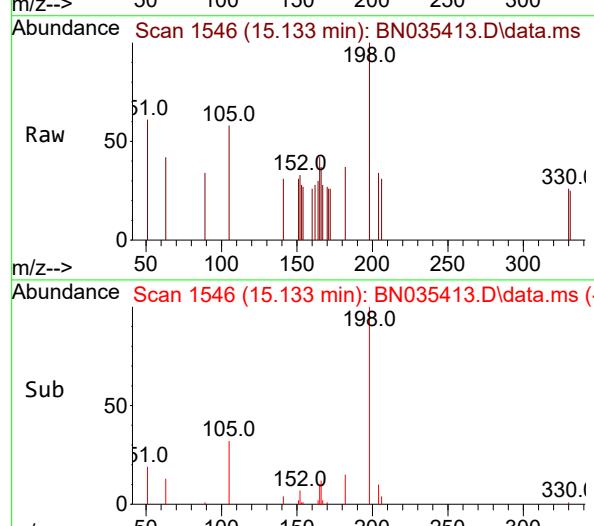
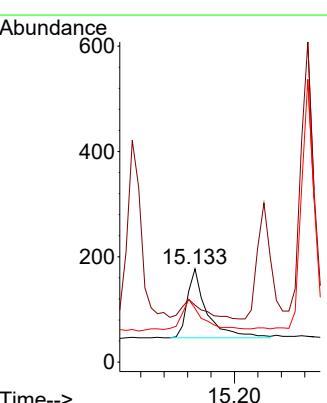


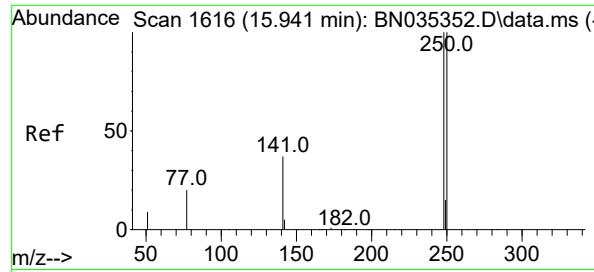
Tgt Ion:188 Resp: 8599
 Ion Ratio Lower Upper
 188 100
 94 0.0 0.0 0.0
 80 9.5 4.6 6.8#



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.358 ng
 RT: 15.133 min Scan# 1546
 Delta R.T. -0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

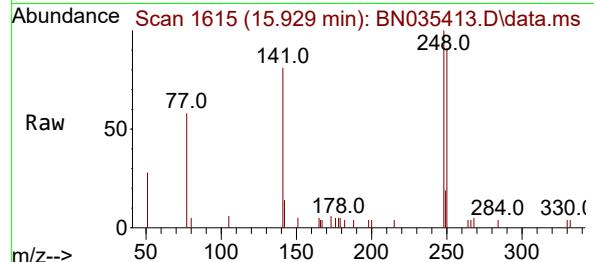
Tgt Ion:198 Resp: 303
 Ion Ratio Lower Upper
 198 100
 51 61.0 46.5 69.7
 105 57.6 45.3 67.9



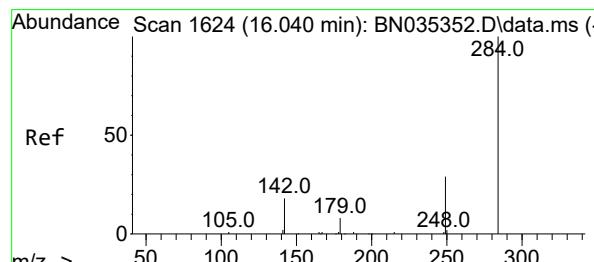
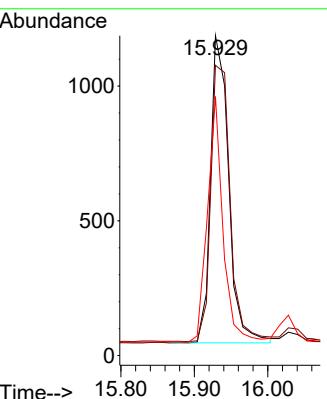
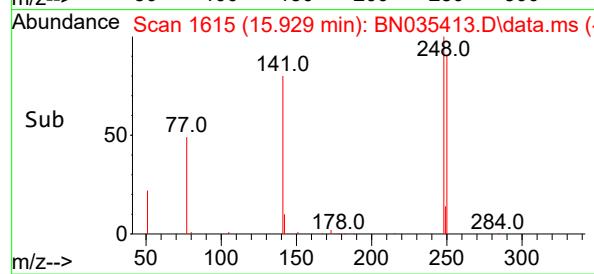


#21
 4-Bromophenyl-phenylether
 Concen: 0.388 ng
 RT: 15.929 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

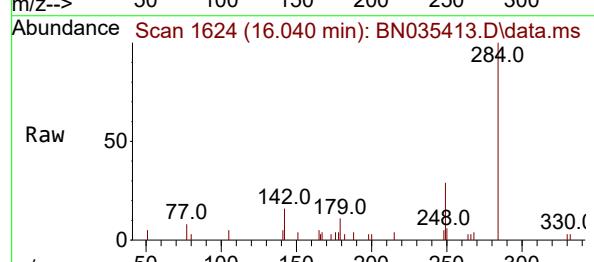
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC



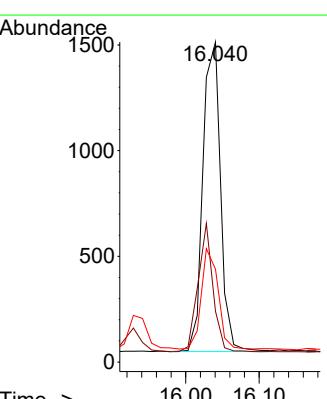
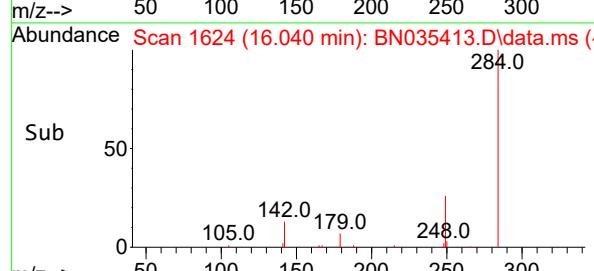
Tgt Ion:248 Resp: 1954
 Ion Ratio Lower Upper
 248 100
 250 90.7 80.6 120.8
 141 81.0 31.5 47.3#

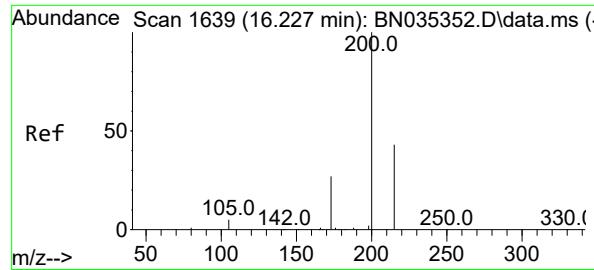


#22
 Hexachlorobenzene
 Concen: 0.413 ng
 RT: 16.040 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11



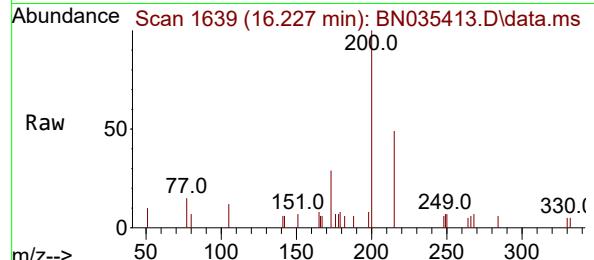
Tgt Ion:284 Resp: 2442
 Ion Ratio Lower Upper
 284 100
 142 35.5 26.7 40.1
 249 32.4 24.6 36.8



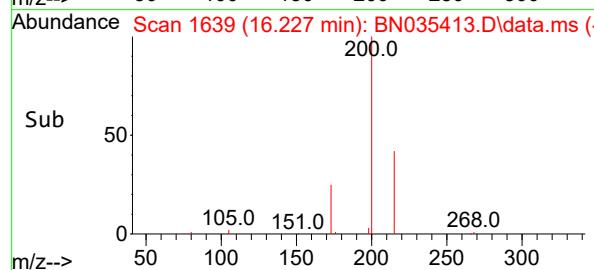
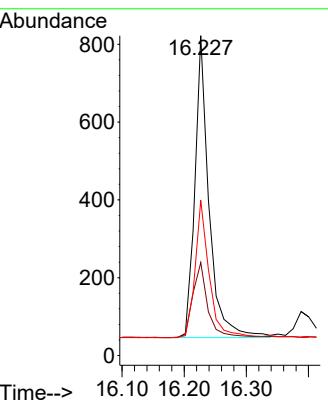


#23
Atrazine
Concen: 0.344 ng
RT: 16.227 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

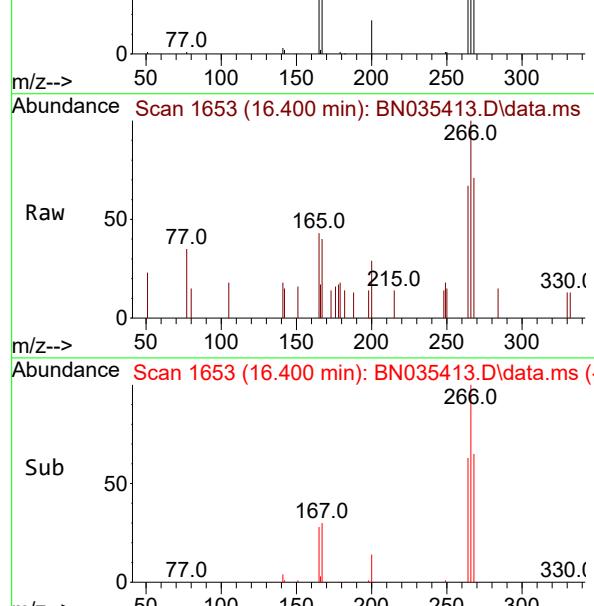
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



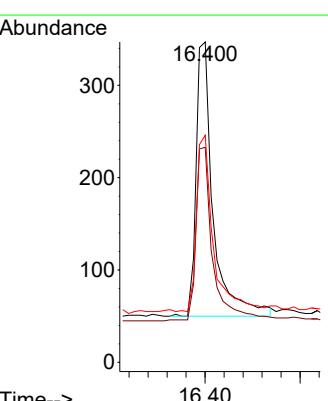
Tgt Ion:200 Resp: 1233
Ion Ratio Lower Upper
200 100
173 29.1 24.1 36.1
215 48.5 36.9 55.3

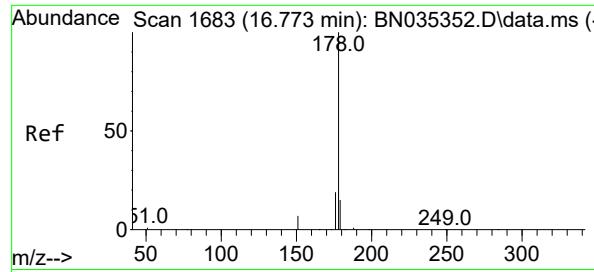


#24
Pentachlorophenol
Concen: 0.289 ng
RT: 16.400 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

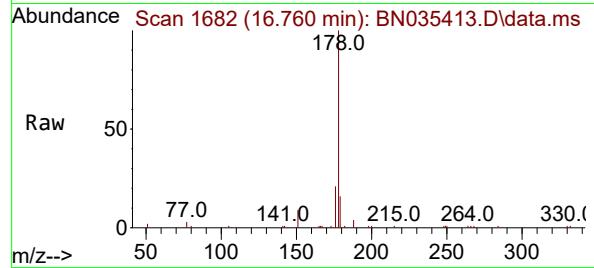


Tgt Ion:266 Resp: 742
Ion Ratio Lower Upper
266 100
264 62.0 42.3 63.5
268 63.5 43.3 64.9

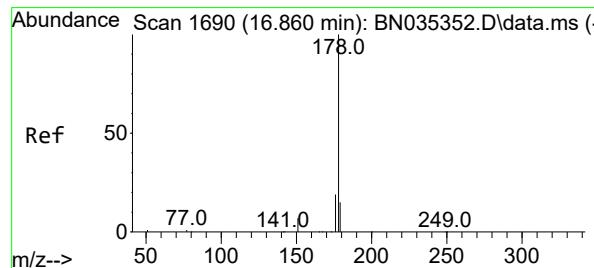
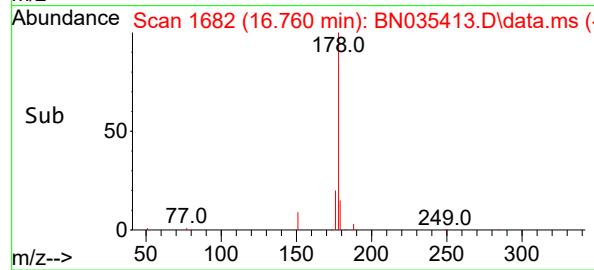
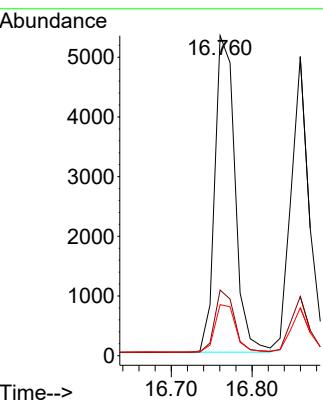




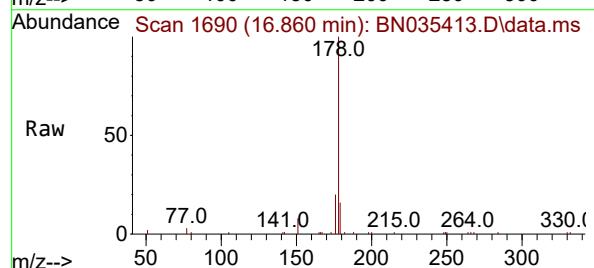
#25
Phenanthrene
Concen: 0.390 ng
RT: 16.760 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11
Instrument: BNA_N
ClientSampleId : SSTDCCC0.4EC



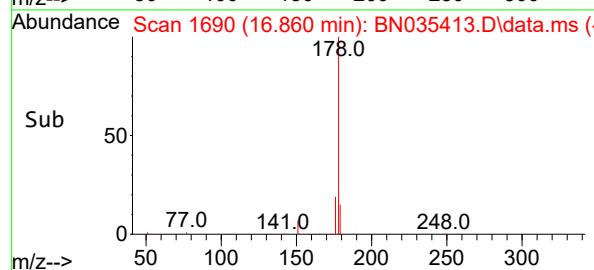
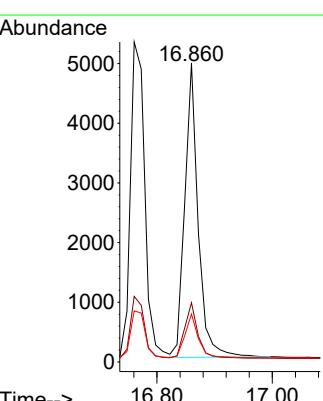
Tgt Ion:178 Resp: 9217
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.4 12.3 18.5

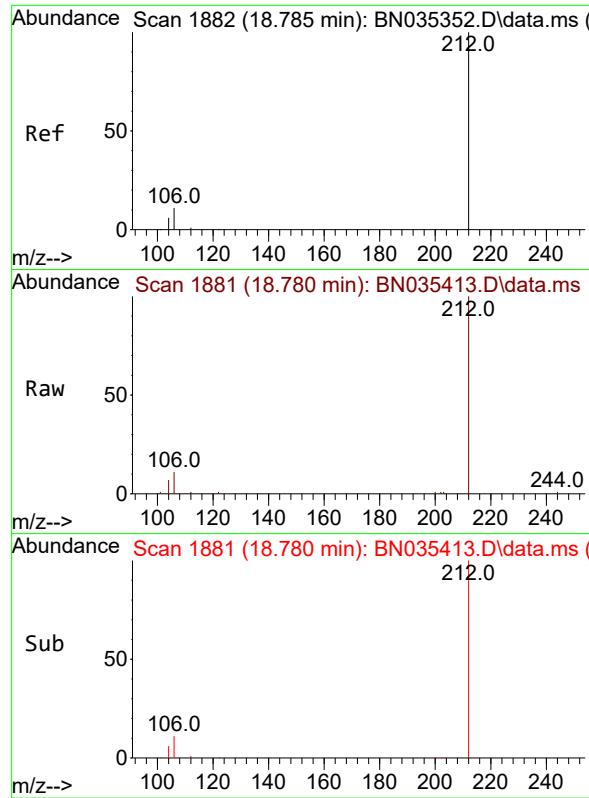


#26
Anthracene
Concen: 0.373 ng
RT: 16.860 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11



Tgt Ion:178 Resp: 7974
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.3 12.6 18.8

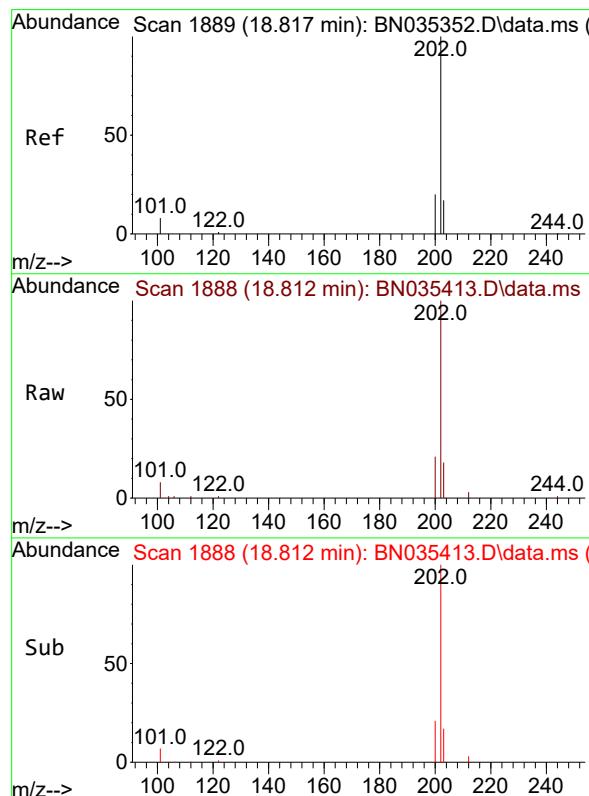
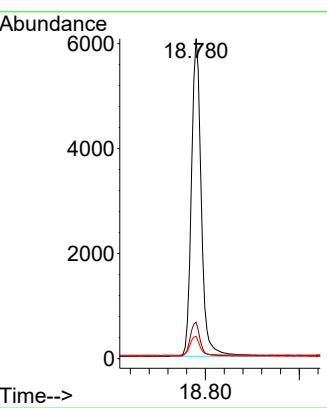




#27
 Fluoranthene-d10
 Concen: 0.361 ng
 RT: 18.780 min Scan# 1
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

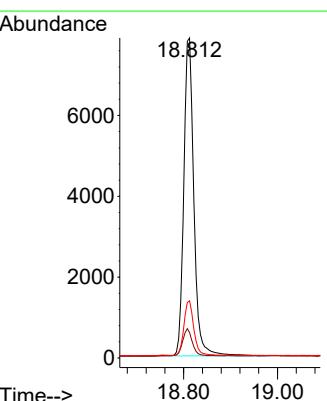
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

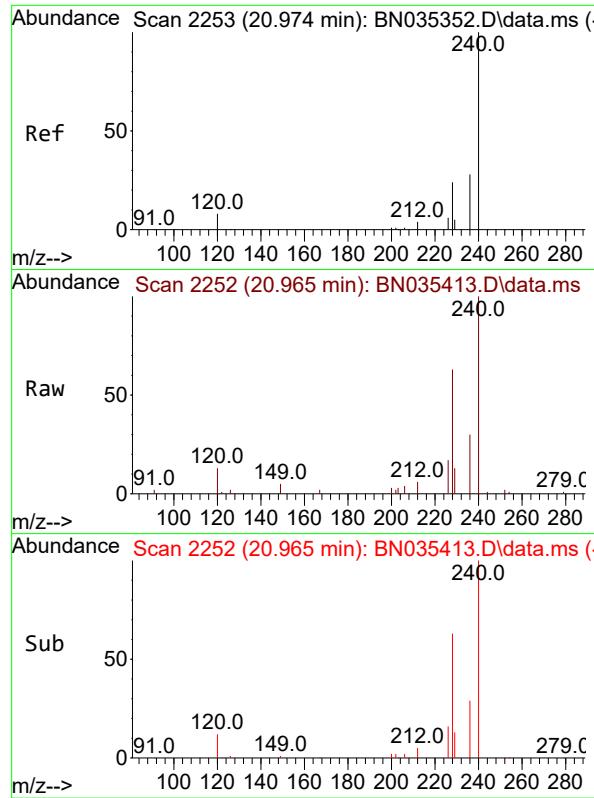
Tgt Ion:212 Resp: 8797
 Ion Ratio Lower Upper
 212 100
 106 10.7 9.2 13.8
 104 6.2 5.3 7.9



#28
 Fluoranthene
 Concen: 0.368 ng
 RT: 18.812 min Scan# 1888
 Delta R.T. -0.005 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11723
 Ion Ratio Lower Upper
 202 100
 101 8.5 7.4 11.0
 203 16.8 13.7 20.5

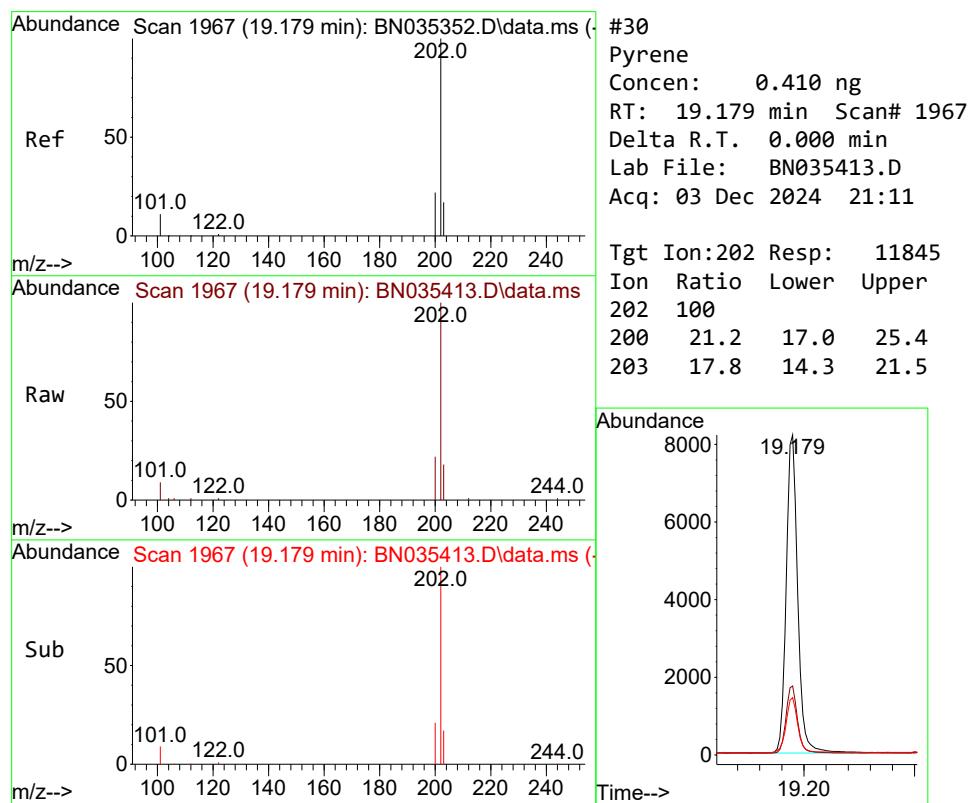
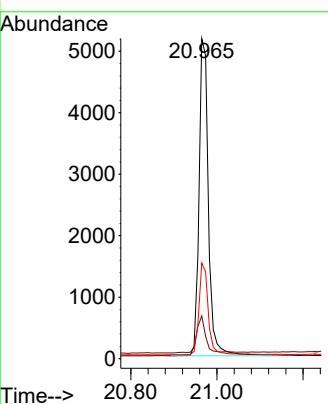




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 20.965 min Scan# 2
 Delta R.T. -0.009 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

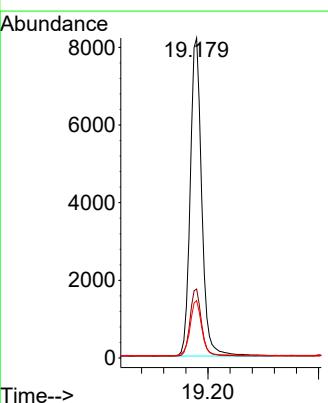
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

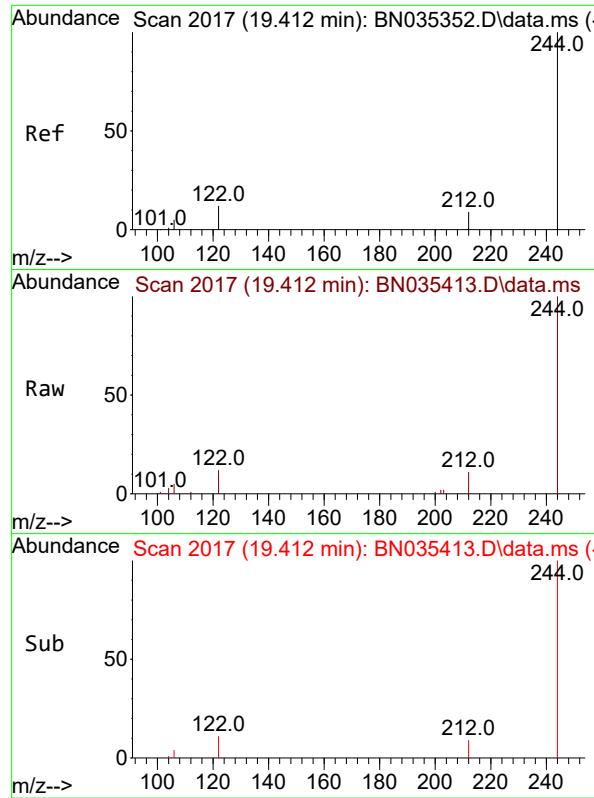
Tgt Ion:240 Resp: 7834
 Ion Ratio Lower Upper
 240 100
 120 13.4 7.9 11.9#
 236 29.9 22.9 34.3



#30
 Pyrene
 Concen: 0.410 ng
 RT: 19.179 min Scan# 1967
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:202 Resp: 11845
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.0 25.4
 203 17.8 14.3 21.5

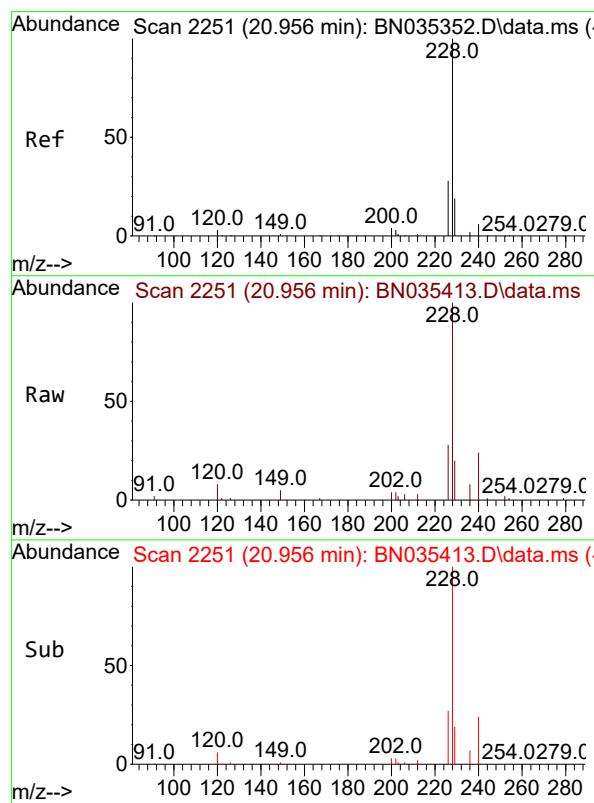
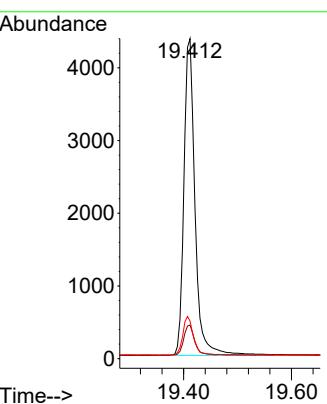




#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.412 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

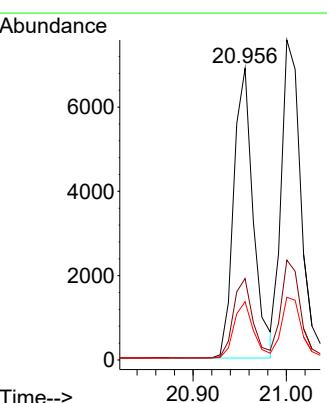
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC

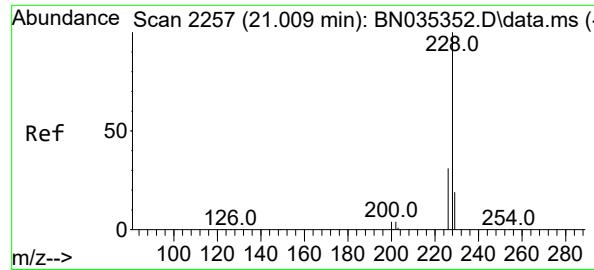
Tgt Ion:244 Resp: 6230
Ion Ratio Lower Upper
244 100
212 10.5 8.1 12.1
122 11.8 10.3 15.5



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 20.956 min Scan# 2251
Delta R.T. 0.000 min
Lab File: BN035413.D
Acq: 03 Dec 2024 21:11

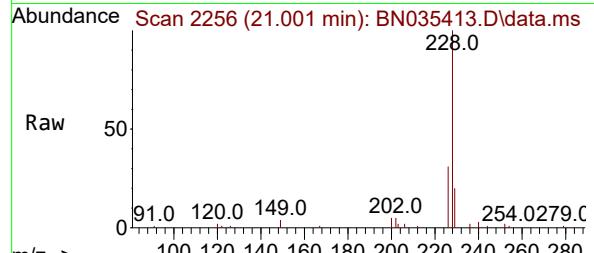
Tgt Ion:228 Resp: 10025
Ion Ratio Lower Upper
228 100
226 27.9 22.5 33.7
229 19.9 15.8 23.8



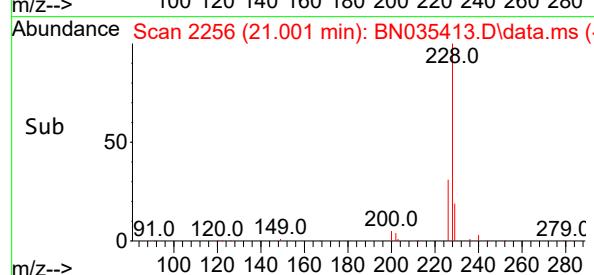
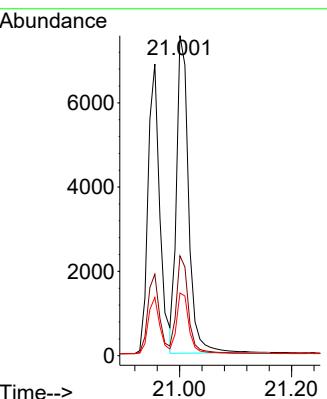


#33
 Chrysene
 Concen: 0.401 ng
 RT: 21.001 min Scan# 2
 Delta R.T. -0.009 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

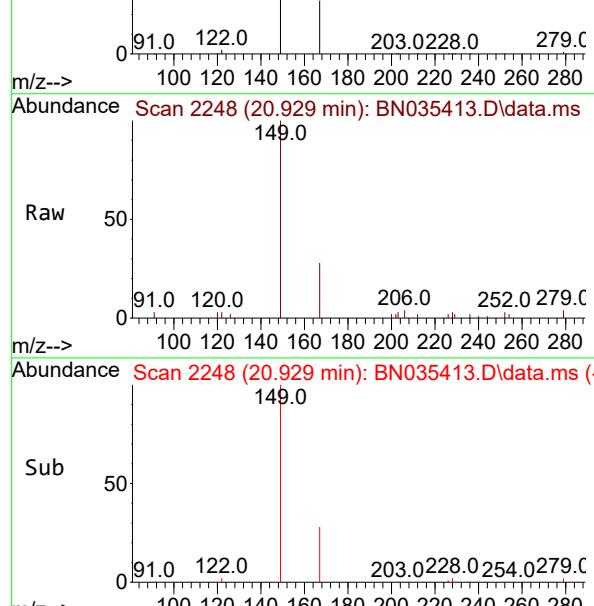
Instrument : BNA_N
ClientSampleId : SSTDCCC0.4EC



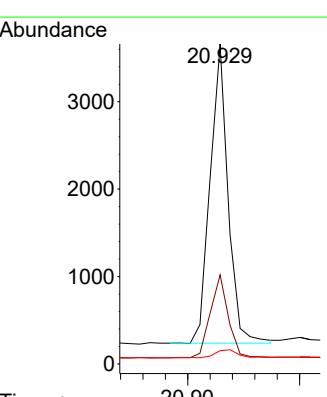
Tgt Ion:228 Resp: 11323
 Ion Ratio Lower Upper
 228 100
 226 31.2 24.6 37.0
 229 19.6 15.9 23.9

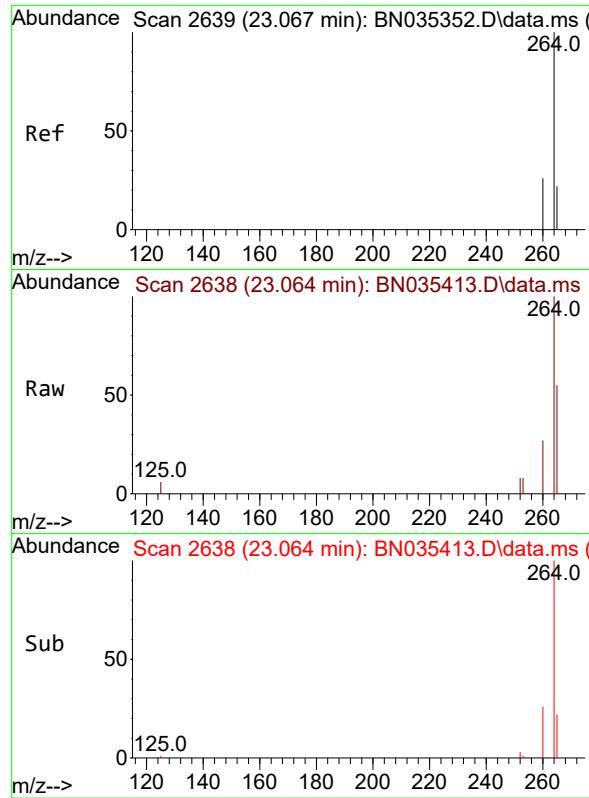


#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.352 ng
 RT: 20.929 min Scan# 2248
 Delta R.T. 0.000 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11



Tgt Ion:149 Resp: 3811
 Ion Ratio Lower Upper
 149 100
 167 28.4 22.2 33.4
 279 3.3 2.7 4.1

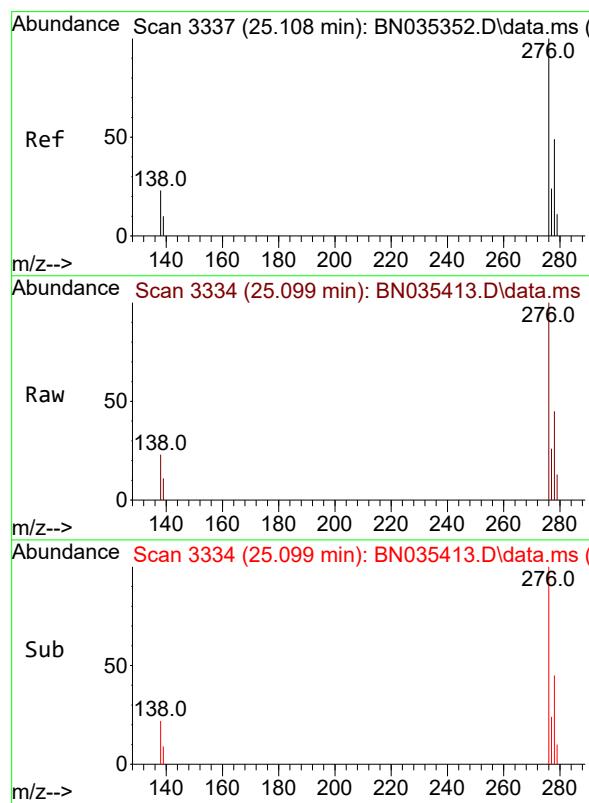
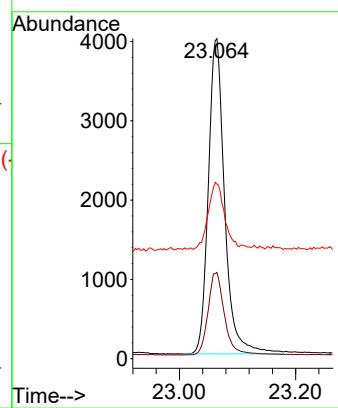




#35
 Perylene-d₁₂
 Concen: 0.400 ng
 RT: 23.064 min Scan# 2
 Delta R.T. -0.003 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

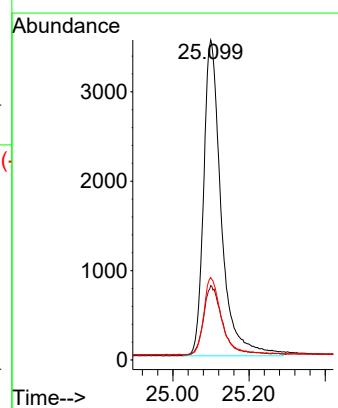
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

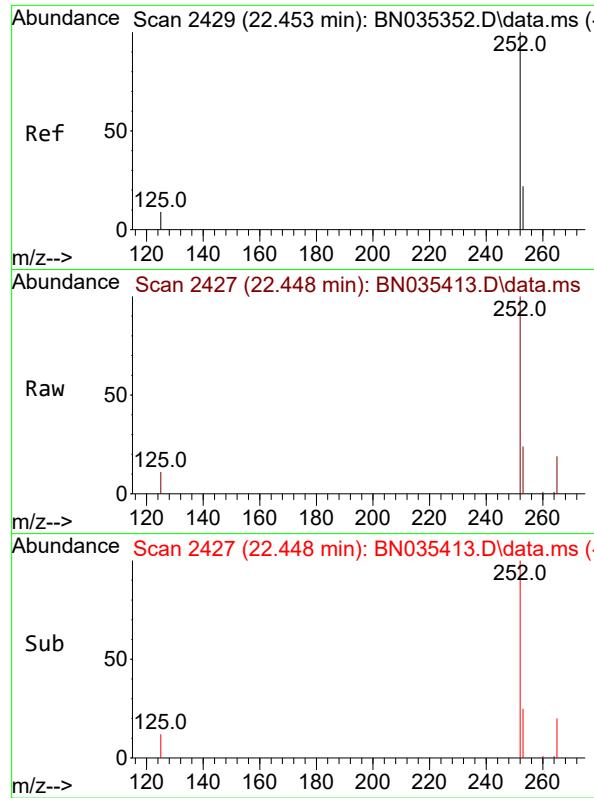
Tgt Ion:264 Resp: 7769
 Ion Ratio Lower Upper
 264 100
 260 27.0 21.4 32.2
 265 54.5 40.2 60.4



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.374 ng
 RT: 25.099 min Scan# 3334
 Delta R.T. -0.009 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:276 Resp: 11352
 Ion Ratio Lower Upper
 276 100
 138 22.8 19.4 29.0
 277 24.4 19.8 29.6

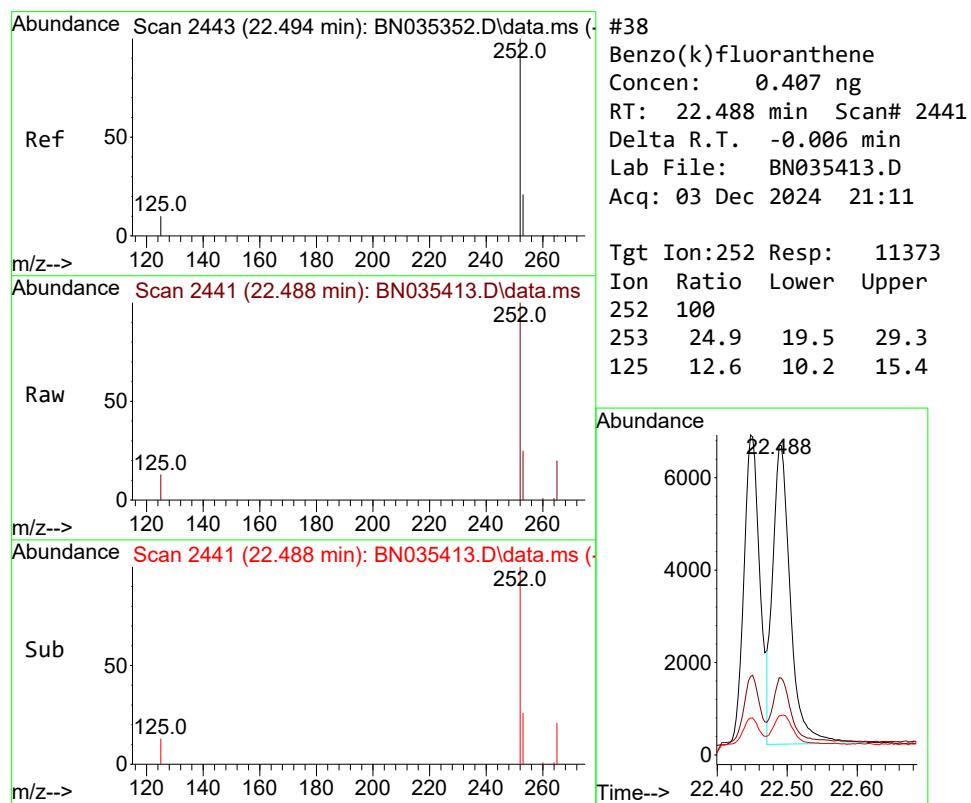
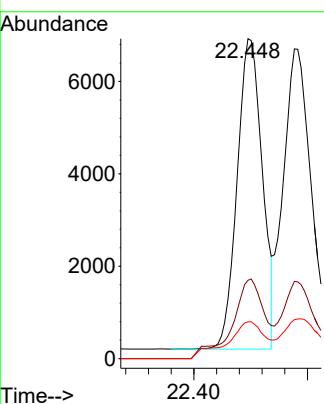




#37
 Benzo(b)fluoranthene
 Concen: 0.456 ng
 RT: 22.448 min Scan# 2
 Delta R.T. -0.006 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

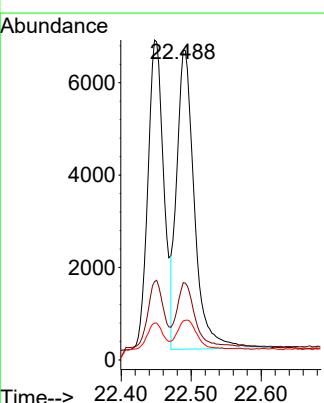
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

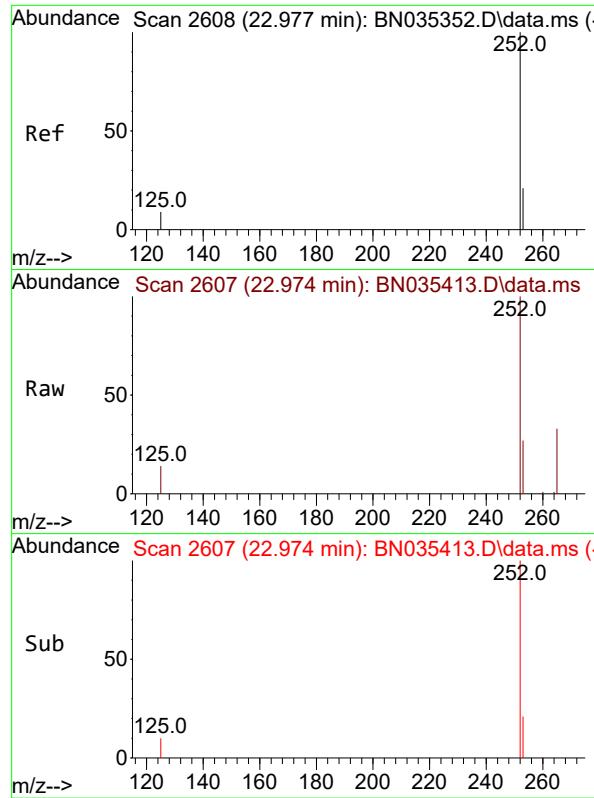
Tgt Ion:252 Resp: 12967
 Ion Ratio Lower Upper
 252 100
 253 24.5 19.6 29.4
 125 11.5 9.6 14.4



#38
 Benzo(k)fluoranthene
 Concen: 0.407 ng
 RT: 22.488 min Scan# 2441
 Delta R.T. -0.006 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

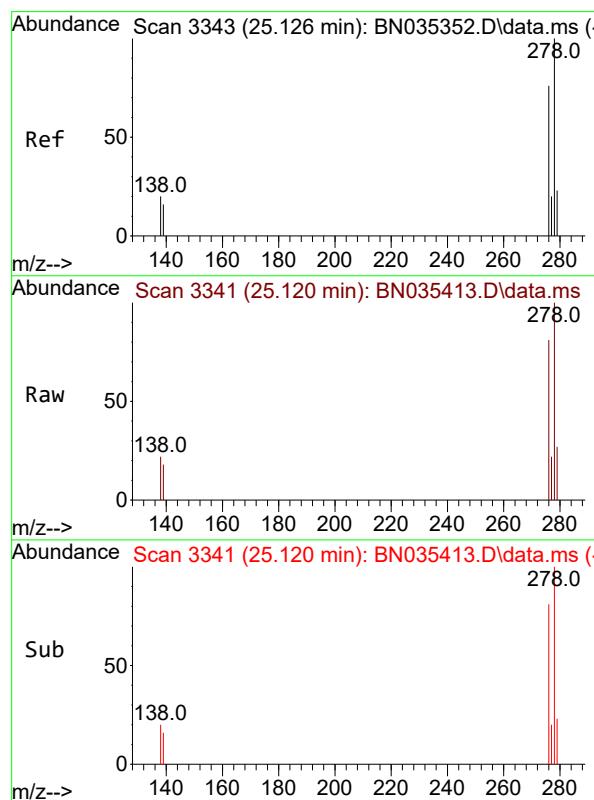
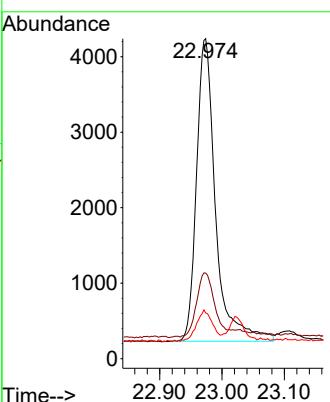
Tgt Ion:252 Resp: 11373
 Ion Ratio Lower Upper
 252 100
 253 24.9 19.5 29.3
 125 12.6 10.2 15.4





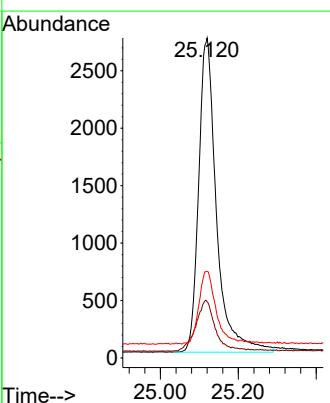
#39
 Benzo(a)pyrene
 Concen: 0.363 ng
 RT: 22.974 min Scan# 2
Instrument :
 Delta R.T. -0.003 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11
ClientSampleId :
 SSTDCCC0.4EC

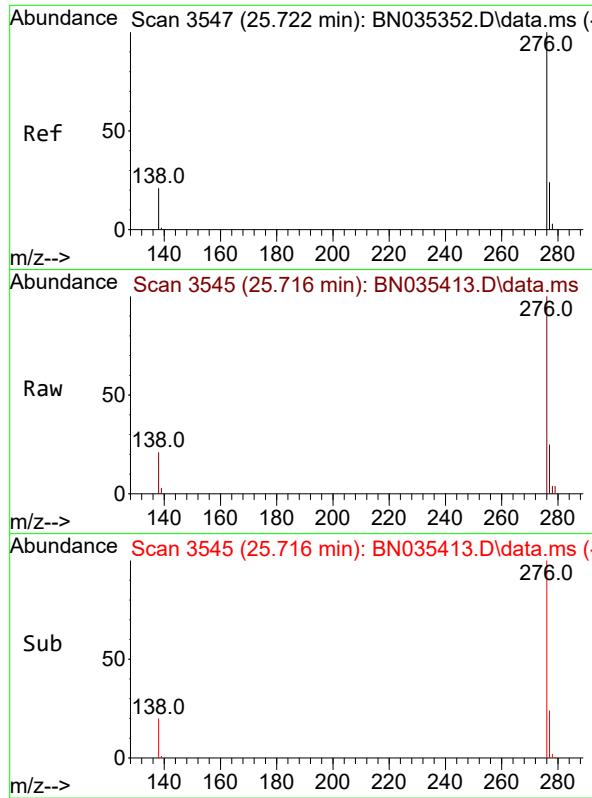
Tgt Ion:252 Resp: 8498
 Ion Ratio Lower Upper
 252 100
 253 26.8 20.2 30.4
 125 14.3 10.9 16.3



#40
 Dibenzo(a,h)anthracene
 Concen: 0.362 ng
 RT: 25.120 min Scan# 3341
 Delta R.T. -0.006 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Tgt Ion:278 Resp: 8673
 Ion Ratio Lower Upper
 278 100
 139 17.5 14.2 21.4
 279 27.1 20.5 30.7





#41
 Benzo(g,h,i)perylene
 Concen: 0.368 ng
 RT: 25.716 min Scan# 3
 Delta R.T. -0.006 min
 Lab File: BN035413.D
 Acq: 03 Dec 2024 21:11

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:276 Resp: 9224
 Ion Ratio Lower Upper
 276 100
 277 25.4 19.9 29.9
 138 21.5 17.8 26.8

