

DATA PACKAGE SEMI-VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER SITE PRINCETON NJ

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : P3426

ATTENTION : Mary I. Murphy



Laboratory Certification ID # 20012



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Cover Page

Order ID : P3426

Project ID : Former Schlumberger Site Princeton NJ

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

P3426-01
P3426-02

Client Sample Number

927-K1-WS-073124
927-K1-WS-073124-FD

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 : _

N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 8/8/2024

By Nimisha Pandya QA/QC Supervisor at 1:46 pm, Aug 16, 2024

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger Site Princeton NJ

Project # N/A

Chemtech Project # P3426

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 07/31/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Hexavalent Chromium, Metals Group4, SVOC-SIMGroup1, SVOCMS Group3, SVOCMS Group6, VOCMS Group3 and VOCMS Group6. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe 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 927-K1-WS-073124-FD [2-Methylnaphthalene-d10 - 16%, Fluoranthene-d10 - 22%] and 927-K1-WS-073124-FDRE [2-Methylnaphthalene-d10 - 17%, Fluoranthene-d10 - 22%] these compounds did not meet the NJDKQP criteria and in-house criteria, All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data and 927-K1-WS-073124-FD [2-Fluorobiphenyl - 21%, Nitrobenzene-d5 - 21%] and 927-K1-WS-073124-FDRE [2-Fluorobiphenyl - 20%, Nitrobenzene-d5 - 21%] these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements except for 927-K1-WS-073124-FD, 927-K1-WS-073124-FDRE , All the failure samples in Internal Standard were reanalyzed to confirm the results as per method and reported in the data.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BN033212.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and 2,4,6-Tribromophenol and Phenol-d6 , failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and 2,4,6-Tribromophenol failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

Less volume was taken for sample # 927-K1-WS-073124-FD at the extraction due to Limited volume received.

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

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.

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 1:46 pm, Aug 16, 2024

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

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

CHEMTECH PROJECT NUMBER: P3426

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 File ID BN033212.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and 2,4,6-Tribromophenol and Phenol-d6 , failure surrogates are not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN033228.D met the requirements except for Benzo(b)fluoranthene is failing marginally low and 2,4,6-Tribromophenol failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

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 927-K1-WS-073124-FD [2-Methylnaphthalene-d10 - 16%, Fluoranthene-d10 - 22%]
and 927-K1-WS-073124-FDRE [2-Methylnaphthalene-d10 - 17%, Fluoranthene-d10 - 22%]
these compounds did not meet the NJDKQP criteria and in-house criteria All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data and 927-K1-WS-073124-FD [2-Fluorobiphenyl - 21%, Nitrobenzene-d5 - 21%]
and 927-K1-WS-073124-FDRE [2-Fluorobiphenyl - 20%, Nitrobenzene-d5 - 21%]
these compounds did not meet the NJDKQP criteria but met the in-house criteria.

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**(CONTINUED)**

	NA	NO	YES
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 .			
9. Internal Standard Area/Retention Time Shift Meet Criteria		✓	
Comments: The Internal Standards Areas met the acceptable requirements except for 927-K1-WS-073124-FD, 927-K1-WS-073124-FDRE , All the failure samples in Internal Standard were reanalyzed to confirm the results as per method and reported in the data.			
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:

Less volume was taken for sample # 927-K1-WS-073124-FD at the extraction due to Limited volume received.

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

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.

S. M. Jodhani
QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 10:35 am, Aug 16, 2024

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P3426

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 Custody

✓

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

✓

1st Level QA Review Signature: SOHIL JODHANI

Date: 08/08/2024

2nd Level QA Review Signature:

N. N. Pandya

APPROVED

By Nimisha Pandya QA/QC Supervisor at 1:46 pm, Aug 16, 2024

LAB CHRONICLE

OrderID:	P3426	OrderDate:	7/31/2024 2:33:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger Site Princeton NJ
Contact:	Mary I. Murphy	Location:	E21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3426-01	927-K1-WS-073124	Water	SVOC-SIMGroup1	8270-Modified	07/31/24	08/01/24	08/03/24	07/31/24
P3426-02	927-K1-WS-073124-FD	Water	SVOC-SIMGroup1	8270-Modified	07/31/24	08/01/24	08/03/24	07/31/24
P3426-02RE	927-K1-WS-073124-FDRE	Water	SVOC-SIMGroup1	8270-Modified	07/31/24	08/01/24	08/03/24	07/31/24

Hit Summary Sheet SW-846

SDG No.: P3426
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : 927-K1-WS-073124							
P3426-01	927-K1-WS-073124	WATER	1,4-Dioxane	0.160	J 0.07	0.21	ug/L
			Total Svoc :	0.16			
			Total Concentration:	0.16			
Client ID : 927-K1-WS-073124-FD							
P3426-02	927-K1-WS-073124-FD	WATER	1,4-Dioxane	0.110	J 0.07	0.2	ug/L
			Total Svoc :	0.11			
			Total Concentration:	0.11			
Client ID : 927-K1-WS-073124-FDRE							
P3426-02RE	927-K1-WS-073124-FDR	WATER	1,4-Dioxane	0.110	J 0.07	0.2	ug/L
			Total Svoc :	0.11			
			Total Concentration:	0.11			



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3426

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P3415-04MS	MLS-15-70-85MS	2-Methylnaphthalene-d10	0.4	0.34	84		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.37	91		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.37	93		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.36	90		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.52	129		30 (54)	130 (171)
P3415-05MSD	MLS-15-70-85MSD	2-Methylnaphthalene-d10	0.4	0.31	78		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.33	82		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.34	85		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.34	84		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.49	122		30 (54)	130 (171)
P3426-01	927-K1-WS-073124	2-Methylnaphthalene-d10	0.4	0.25	62		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.26	64		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.30	74		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.27	68		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.39	97		30 (54)	130 (171)
P3426-02	927-K1-WS-073124-FD	2-Methylnaphthalene-d10	0.4	0.065	16	*	30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.086	22	*	30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.084	21	*	30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.084	21	*	30 (10)	130 (175)
		Terphenyl-d14	0.4	0.27	68		30 (54)	130 (171)
P3426-02RE	927-K1-WS-073124-FDRE	2-Methylnaphthalene-d10	0.4	0.067	17	*	30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.089	22	*	30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.083	21	*	30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.081	20	*	30 (10)	130 (175)
		Terphenyl-d14	0.4	0.33	83		30 (54)	130 (171)
PB162424BL	PB162424BL	2-Methylnaphthalene-d10	0.4	0.31	78		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.32	81		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.38	95		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.34	84		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.37	92		30 (54)	130 (171)
PB162424BS	PB162424BS	2-Methylnaphthalene-d10	0.4	0.35	88		30 (30)	150 (150)
		Fluoranthene-d10	0.4	0.33	81		30 (30)	150 (150)
		Nitrobenzene-d5	0.4	0.39	97		30 (11)	130 (175)
		2-Fluorobiphenyl	0.4	0.35	87		30 (10)	130 (175)
		Terphenyl-d14	0.4	0.35	88		30 (54)	130 (171)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3426

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3415-04MS		Client Sample ID: MLS-15-70-85MS		DataFile: BN033217.D							
Naphthalene	0.42	0	0.34	ug/L	81				70 (62)	130 (119)	
2-Methylnaphthalene	0.42	0	0.34	ug/L	81				70 (70)	130 (118)	
Acenaphthylene	0.42	0	0.41	ug/L	98				70 (53)	130 (123)	
Acenaphthene	0.42	0	0.39	ug/L	93				70 (57)	130 (122)	
Fluorene	0.42	0	0.38	ug/L	90				70 (58)	130 (123)	
Phenanthrene	0.42	0	0.41	ug/L	98				70 (64)	130 (129)	
Anthracene	0.42	0	0.37	ug/L	88				70 (67)	130 (127)	
Fluoranthene	0.42	0	0.39	ug/L	93				70 (55)	130 (140)	
Pyrene	0.42	0	0.47	ug/L	112				70 (59)	130 (137)	
Benzo(a)anthracene	0.42	0.030	0.40	ug/L	88				70 (51)	130 (146)	
Chrysene	0.42	0.040	0.47	ug/L	102				70 (61)	130 (126)	
Benzo(b)fluoranthene	0.42	0.040	0.41	ug/L	88				70 (60)	130 (123)	
Benzo(k)fluoranthene	0.42	0.040	0.45	ug/L	98				70 (61)	130 (122)	
Benzo(a)pyrene	0.42	0	0.44	ug/L	105				70 (54)	130 (129)	
Indeno(1,2,3-cd)pyrene	0.42	0.040	0.48	ug/L	105				70 (50)	130 (134)	
Dibenz(a,h)anthracene	0.42	0.040	0.48	ug/L	105				70 (53)	130 (121)	
Benzo(g,h,i)perylene	0.42	0.040	0.43	ug/L	93				70 (44)	130 (132)	
1,4-Dioxane	0.42	0	0.16	ug/L	38				20 (10)	160 (175)	

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P3426

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: P3415-05MSD		Client Sample ID: MLS-15-70-85MSD		DataFile: BN033218.D							
Naphthalene	0.42	0	0.31	ug/L	74		9		70 (62)	130 (119)	20 (20)
2-Methylnaphthalene	0.42	0	0.30	ug/L	71		13		70 (70)	130 (118)	20 (20)
Acenaphthylene	0.42	0	0.36	ug/L	86		13		70 (53)	130 (123)	20 (20)
Acenaphthene	0.42	0	0.34	ug/L	81		14		70 (57)	130 (122)	20 (20)
Fluorene	0.42	0	0.34	ug/L	81		11		70 (58)	130 (123)	20 (20)
Phenanthrene	0.42	0	0.37	ug/L	88		11		70 (64)	130 (129)	20 (20)
Anthracene	0.42	0	0.34	ug/L	81		8		70 (67)	130 (127)	20 (20)
Fluoranthene	0.42	0	0.35	ug/L	83		11		70 (55)	130 (140)	20 (20)
Pyrene	0.42	0	0.42	ug/L	100		11		70 (59)	130 (137)	20 (20)
Benzo(a)anthracene	0.42	0.030	0.39	ug/L	86		2		70 (51)	130 (146)	20 (20)
Chrysene	0.42	0.040	0.42	ug/L	90		13		70 (61)	130 (126)	20 (20)
Benzo(b)fluoranthene	0.42	0.040	0.35	ug/L	74		17		70 (60)	130 (123)	20 (20)
Benzo(k)fluoranthene	0.42	0.040	0.38	ug/L	81		19		70 (61)	130 (122)	20 (20)
Benzo(a)pyrene	0.42	0	0.39	ug/L	93		12		70 (54)	130 (129)	20 (20)
Indeno(1,2,3-cd)pyrene	0.42	0.040	0.43	ug/L	93		12		70 (50)	130 (134)	20 (20)
Dibenz(a,h)anthracene	0.42	0.040	0.43	ug/L	93		12		70 (53)	130 (121)	20 (20)
Benzo(g,h,i)perylene	0.42	0.040	0.39	ug/L	83		11		70 (44)	130 (132)	20 (20)
1,4-Dioxane	0.42	0	0.16	ug/L	38		0		20 (10)	160 (175)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3426

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

DataFile: BN033214.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB162424BS	Naphthalene	0.4	0.37	ug/L	93				70 (67)	130 (120)		
	2-Methylnaphthalene	0.4	0.32	ug/L	80				70 (50)	130 (122)		
	Acenaphthylene	0.4	0.39	ug/L	98				70 (60)	130 (119)		
	Acenaphthene	0.4	0.39	ug/L	98				70 (65)	130 (119)		
	Fluorene	0.4	0.35	ug/L	88				70 (58)	130 (122)		
	Phenanthrene	0.4	0.35	ug/L	88				70 (65)	130 (117)		
	Anthracene	0.4	0.36	ug/L	90				70 (57)	130 (118)		
	Fluoranthene	0.4	0.32	ug/L	80				70 (53)	130 (126)		
	Pyrene	0.4	0.37	ug/L	93				70 (54)	130 (124)		
	Benzo(a)anthracene	0.4	0.30	ug/L	75				70 (54)	130 (130)		
	Chrysene	0.4	0.40	ug/L	100				70 (64)	130 (126)		
	Benzo(b)fluoranthene	0.4	0.30	ug/L	75				70 (65)	130 (121)		
	Benzo(k)fluoranthene	0.4	0.34	ug/L	85				70 (72)	130 (119)		
	Benzo(a)pyrene	0.4	0.35	ug/L	88				70 (68)	130 (120)		
	Indeno(1,2,3-cd)pyrene	0.4	0.39	ug/L	98				70 (70)	130 (127)		
	Dibenz(a,h)anthracene	0.4	0.39	ug/L	98				70 (65)	130 (121)		
	Benzo(g,h,i)perylene	0.4	0.40	ug/L	100				70 (76)	130 (117)		
	1,4-Dioxane	0.4	0.48	ug/L	120				20 (60)	160 (132)		

() = LABORATORY INHOUSE LIMIT

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB162424BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: P3426

SAS No.: P3426 SDG NO.: P3426

Lab File ID: BN033213.D

Lab Sample ID: PB162424BL

Instrument ID: BNA_N

Date Extracted: 08/01/2024

Matrix: (soil/water) Water

Date Analyzed: 08/02/2024

Level: (low/med) LOW

Time Analyzed: 22:12

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB162424BS	PB162424BS	BN033214.D	08/02/2024
927-K1-WS-073124	P3426-01	BN033222.D	08/03/2024
927-K1-WS-073124-FD	P3426-02	BN033223.D	08/03/2024
MLS-15-70-85MS	P3415-04MS	BN033217.D	08/03/2024
MLS-15-70-85MSD	P3415-05MSD	BN033218.D	08/03/2024

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3426 SDG NO.: P3426Lab File ID: BN032615.DDFTPP Injection Date: 07/10/2024Instrument ID: BNA_NDFTPP Injection Time: 15:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.7
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	44.1
197	Less than 2.0% of mass 198	0.6
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	28.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	12
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.9 (19.3) 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	BN032616.D	07/10/2024	15:54
SSTDICC0.2	SSTDICC0.2	BN032617.D	07/10/2024	16:30
SSTDICCC0.4	SSTDICCC0.4	BN032618.D	07/10/2024	17:07
SSTDICC0.8	SSTDICC0.8	BN032619.D	07/10/2024	17:43
SSTDICC1.6	SSTDICC1.6	BN032620.D	07/10/2024	18:19
SSTDICC3.2	SSTDICC3.2	BN032621.D	07/10/2024	18:56
SSTDICC5.0	SSTDICC5.0	BN032622.D	07/10/2024	19:32



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: P3426 SDG NO.: P3426Lab File ID: BN033211.DDFTPP Injection Date: 08/02/2024Instrument ID: BNA_NDFTPP Injection Time: 20:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.1
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	42.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	52.4
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	6.9
275	10.0 - 60.0% of mass 198	27.5
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	10
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.4 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033212.D	08/02/2024	20:59
PB162424BL	PB162424BL	BN033213.D	08/02/2024	22:12
PB162424BS	PB162424BS	BN033214.D	08/02/2024	22:48
MLS-15-70-85MS	P3415-04MS	BN033217.D	08/03/2024	00:38
MLS-15-70-85MSD	P3415-05MSD	BN033218.D	08/03/2024	01:15
927-K1-WS-073124	P3426-01	BN033222.D	08/03/2024	03:39
927-K1-WS-073124-FD	P3426-02	BN033223.D	08/03/2024	04:15



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JACO05Lab Code: CHEMSAS No.: P3426SDG NO.: P3426Lab File ID: BN033227.DDFTPP Injection Date: 08/03/2024Instrument ID: BNA_NDFTPP Injection Time: 07:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	45
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	53.4
197	Less than 2.0% of mass 198	0.4
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	26.4
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.1 (18.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN033228.D	08/03/2024	07:59
927-K1-WS-073124-FDRE	P3426-02RE	BN033237.D	08/03/2024	14:00

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG NO.: P3426

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/02/2024

Lab File ID: BN033212.D Time Analyzed: 20:59

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2541	7.503	8773	10.29	4558	14.14
UPPER LIMIT	5082	8.003	17546	10.787	9116	14.637
LOWER LIMIT	1270.5	7.003	4386.5	9.787	2279	13.637
EPA SAMPLE NO.						
01 PB162424BL	1883	7.60	6150	10.44	3521	14.20
02 PB162424BS	2342	7.51	7752	10.30	4855	14.15
03 MLS-15-70-85MS	2396	7.50	8090	10.27	4611	14.13
04 MLS-15-70-85MSD	2530	7.51	8615	10.27	4385	14.14
05 927-K1-WS-073124	2713	7.56	9334	10.29	5305	14.14
06 927-K1-WS-073124-FD	4557	7.51	15575	10.27	7686	14.14

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG NO.: P3426

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/02/2024

Lab File ID: BN033212.D Time Analyzed: 20:59

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	8276	16.92	5892	21.133	6636	23.315
UPPER LIMIT	16552	17.42	11784	21.633	13272	23.815
LOWER LIMIT	4138	16.42	2946	20.633	3318	22.815
EPA SAMPLE NO.						
01 PB162424BL	6022	16.99	5074	21.16	6136	23.33
02 PB162424BS	8693	16.93	6222	21.14	7164	23.32
03 MLS-15-70-85MS	9453	16.92	6458	21.14	6304	23.32
04 MLS-15-70-85MSD	8776	16.92	5889	21.13	6810	23.32
05 927-K1-WS-073124	11116	16.92	7181	21.13	7529	23.30
06 927-K1-WS-073124-FD	15096	16.91	13422 *	21.13	14336 *	23.30

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG NO.: P3426

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/03/2024

Lab File ID: BN033228.D Time Analyzed: 07:59

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2923	7.495	10082	10.29	5809	14.13
UPPER LIMIT	5846	7.995	20164	10.787	11618	14.633
LOWER LIMIT	1461.5	6.995	5041	9.787	2904.5	13.633
EPA SAMPLE NO.						
01 927-K1-WS-073124-FDRE	4565	7.52	16642	10.27	9402	14.14

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG NO.: P3426

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 08/03/2024

Lab File ID: BN033228.D Time Analyzed: 07:59

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	11229	16.915	7084	21.14	8355	23.315
UPPER LIMIT	22458	17.415	14168	21.64	16710	23.815
LOWER LIMIT	5614.5	16.415	3542	20.64	4177.5	22.815
EPA SAMPLE NO.						
01 927-K1-WS-073124-FDRE	19875	16.91	14622 *	21.13	14874	23.31

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124	SDG No.:	P3426
Lab Sample ID:	P3426-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	950 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
BN033222.D	1	08/01/24 08:58	08/03/24 03:39	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.030	U	0.030	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.11	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.11	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.11	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.11	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.11	ug/L
120-12-7	Anthracene	0.030	U	0.030	0.11	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.11	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.11	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.11	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.040	U	0.040	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.11	ug/L
123-91-1	1,4-Dioxane	0.16	J	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.25		30 (30) - 150 (150)	62%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.26		30 (30) - 150 (150)	64%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		30 (11) - 130 (175)	74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		30 (10) - 130 (175)	68%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (54) - 130 (171)	97%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2710	7.561			
1146-65-2	Naphthalene-d8	9330	10.287			
15067-26-2	Acenaphthene-d10	5310	14.144			
1517-22-2	Phenanthrene-d10	11100	16.915			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124	SDG No.:	P3426
Lab Sample ID:	P3426-01	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	950 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
BN033222.D	1	08/01/24 08:58	08/03/24 03:39	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	7180	21.131			
1520-96-3	Perylene-d12	7530	23.304			

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\BN080324\
Data File : BN033222.D
Acq On : 03 Aug 2024 03:39
Operator : MA/JU
Sample : P3426-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 04:15:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	2713m	0.400	ng	0.06
7) Naphthalene-d8	10.287	136	9334	0.400	ng	# 0.00
13) Acenaphthene-d10	14.144	164	5305	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	11116	0.400	ng	0.00
29) Chrysene-d12	21.131	240	7181	0.400	ng	0.00
35) Perylene-d12	23.304	264	7529	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.242	112	896	0.131	ng	0.00
5) Phenol-d6	6.961	99	846m	0.099	ng	0.08
8) Nitrobenzene-d5	8.835	82	2072m	0.295	ng	0.02
11) 2-Methylnaphthalene-d10	11.878	152	3510	0.246	ng	-0.02
14) 2,4,6-Tribromophenol	15.686	330	551	0.243	ng	-0.03
15) 2-Fluorobiphenyl	12.775	172	5346	0.271	ng	-0.01
27) Fluoranthene-d10	18.953	212	7422	0.258	ng	0.00
31) Terphenyl-d14	19.542	244	5699	0.387	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.083	88	501	0.149	ng	# 37
34) Bis(2-ethylhexyl)phtha...	21.006	149	1953	0.155	ng	# 82

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

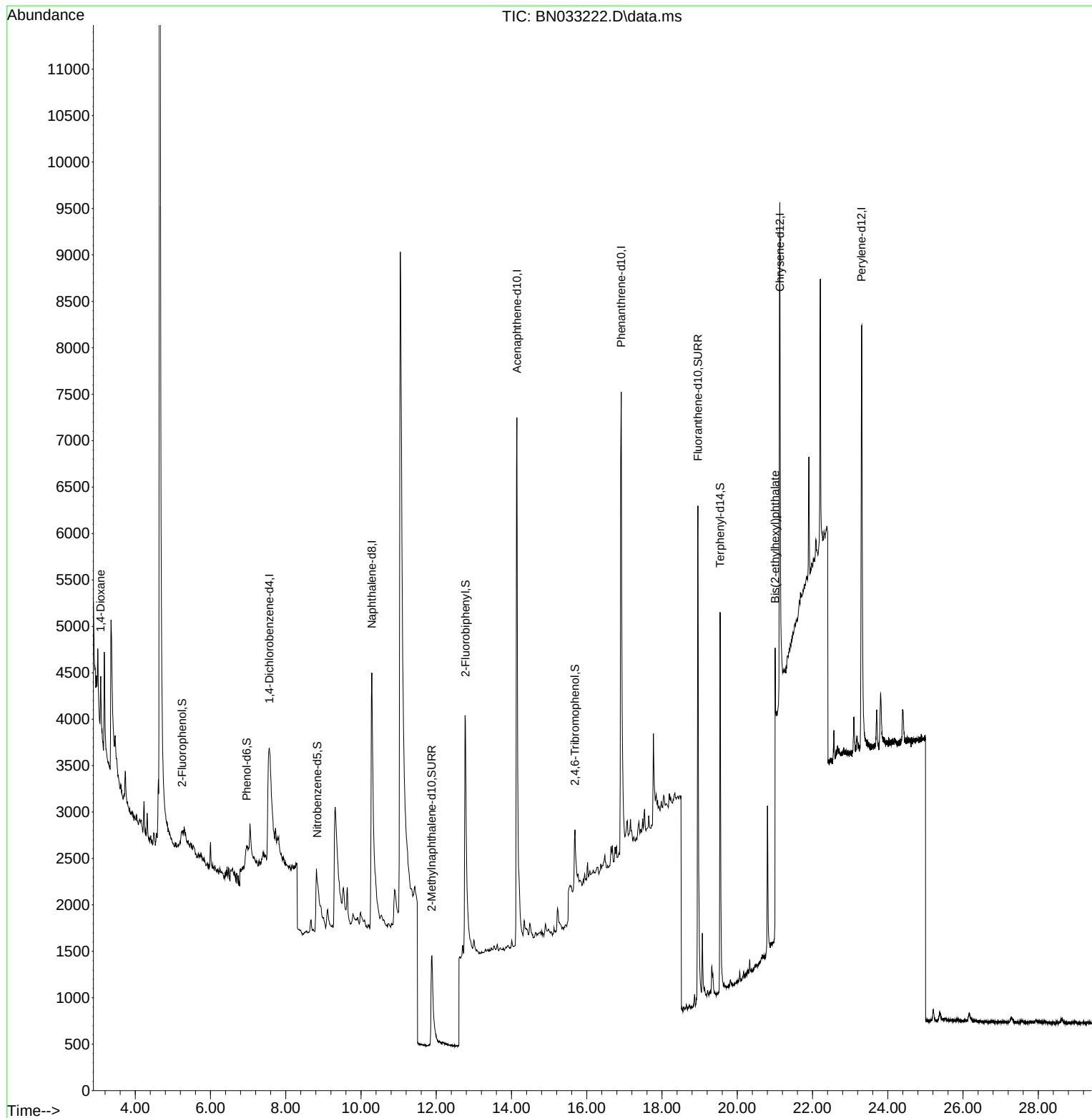
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033222.D
Acq On : 03 Aug 2024 03:39
Operator : MA/JU
Sample : P3426-01
Misc :
ALS Vial : 23 Sample Multiplier: 1

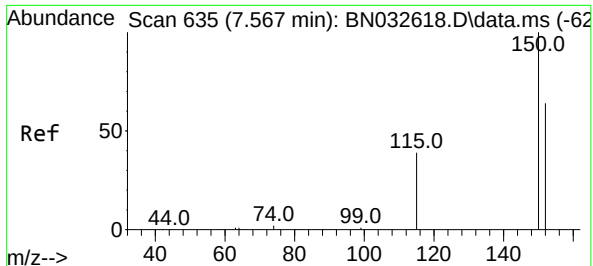
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

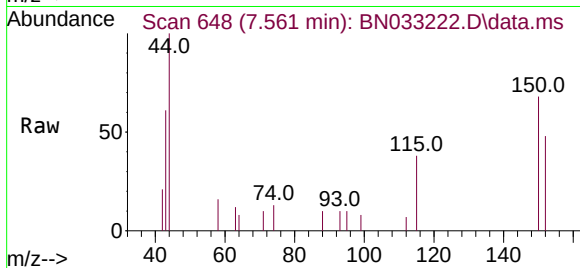
Quant Time: Aug 03 04:15:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.561 min Scan# 64
Delta R.T. 0.058 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

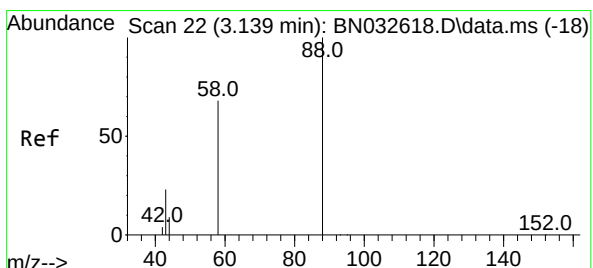
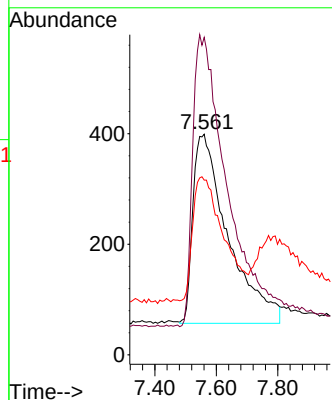
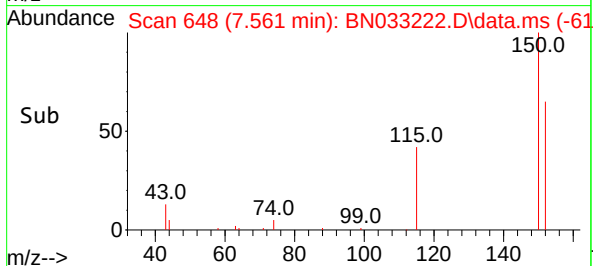
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion: 152 Resp: 271
Ion Ratio Lower Upper
152 100
150 143.9 123.8 185.6
115 79.2 52.8 79.2

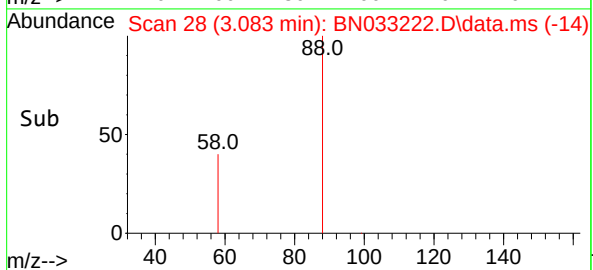
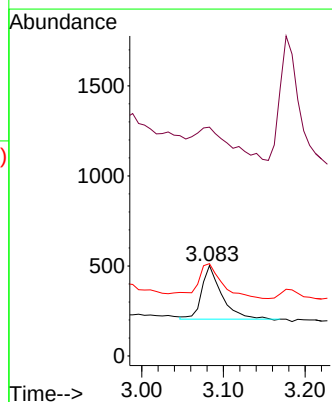
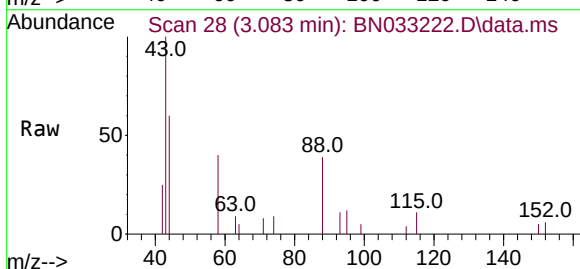
Manual Integrations
APPROVED

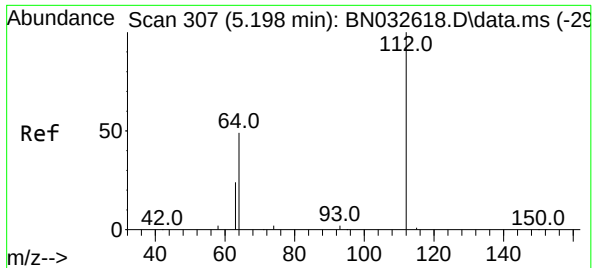
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.149 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

Tgt Ion: 88 Resp: 501
Ion Ratio Lower Upper
88 100
43 111.0 18.4 27.6#
58 75.6 49.2 73.8#





#4

2-Fluorophenol

Concen: 0.131 ng

RT: 5.242 min Scan# 307

Delta R.T. 0.000 min

Lab File: BN033222.D

Acq: 03 Aug 2024 03:39

Instrument :

BNA_N

ClientSampleId :

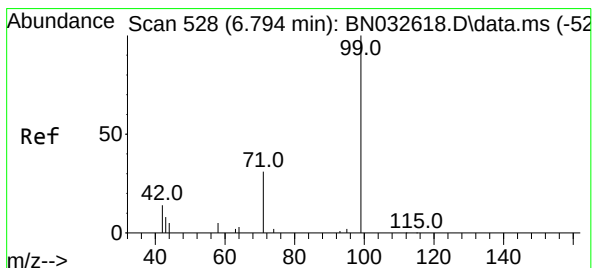
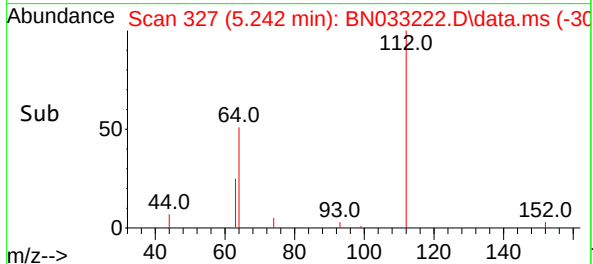
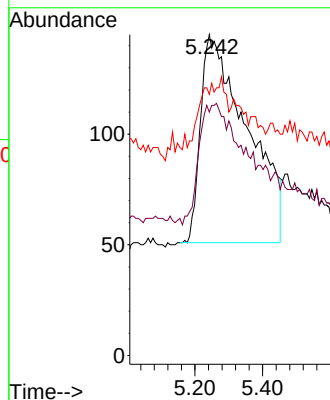
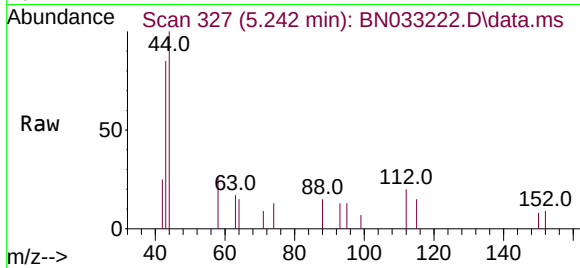
927-K1-WS-073124

Tgt Ion:	112	Resp:	890
Ion Ratio	Lower	Upper	
112	100		
64	0.0	40.2	60.4
63	7.3	22.2	33.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#5

Phenol-d6

Concen: 0.099 ng m

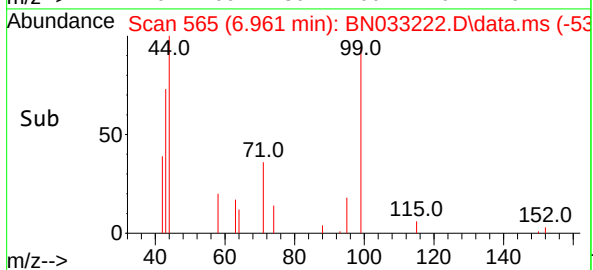
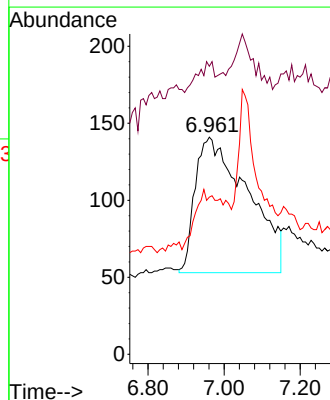
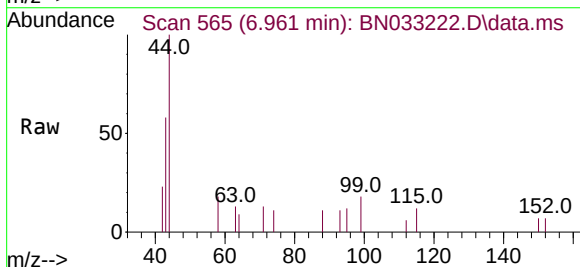
RT: 6.961 min Scan# 565

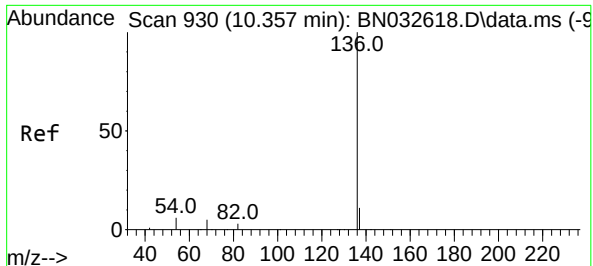
Delta R.T. 0.080 min

Lab File: BN033222.D

Acq: 03 Aug 2024 03:39

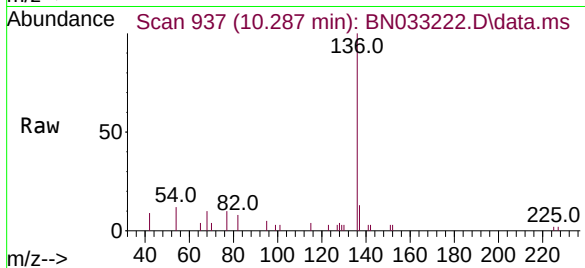
Tgt Ion:	99	Resp:	846
Ion Ratio	Lower	Upper	
99	100		
42	9.5	10.5	15.7
71	24.5	22.3	33.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.287 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

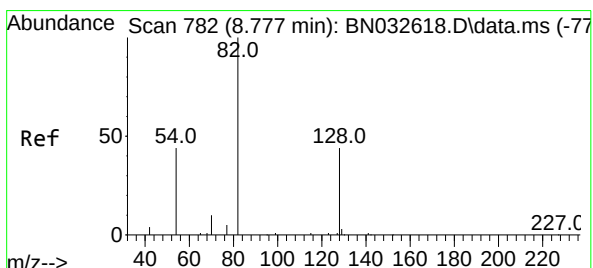
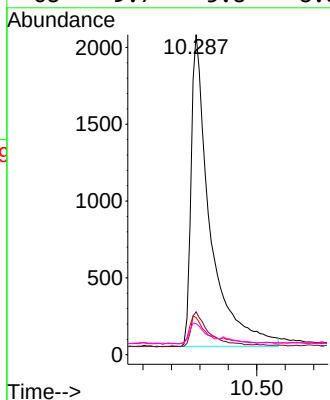
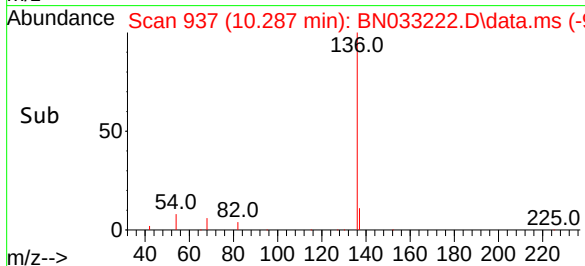
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion: 136 Resp: 9334
Ion Ratio Lower Upper
136 100
137 13.4 9.9 14.9
54 11.6 6.5 9.7
68 9.7 5.8 8.8#

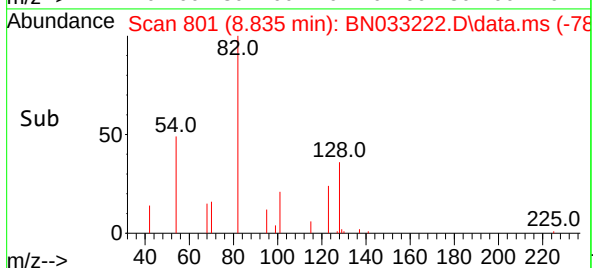
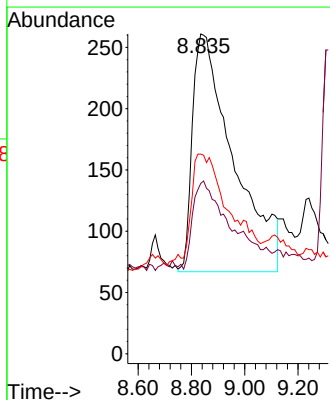
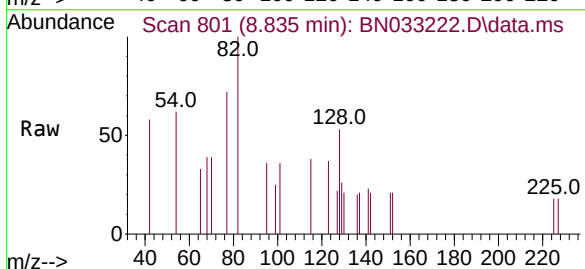
Manual Integrations
APPROVED

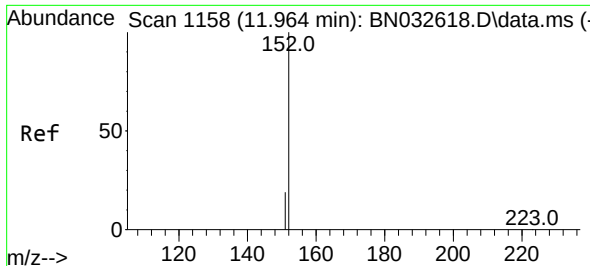
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.295 ng m
RT: 8.835 min Scan# 801
Delta R.T. 0.021 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

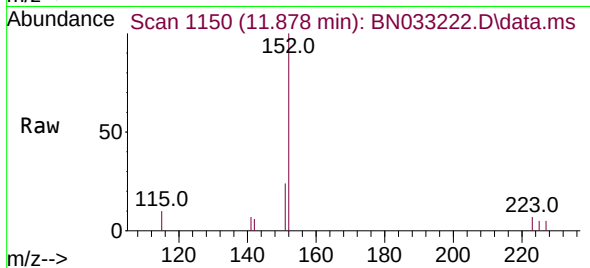
Tgt Ion: 82 Resp: 2072
Ion Ratio Lower Upper
82 100
128 53.3 41.7 62.5
54 62.5 39.5 59.3#





#11
2-Methylnaphthalene-d10
Concen: 0.246 ng
RT: 11.878 min Scan# 1150
Delta R.T. -0.023 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

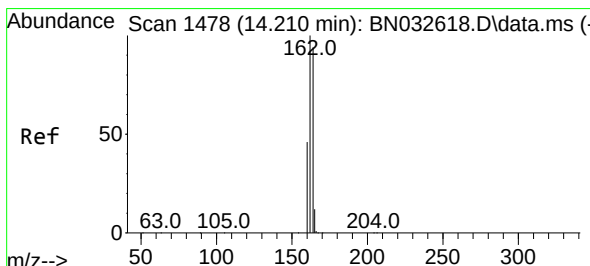
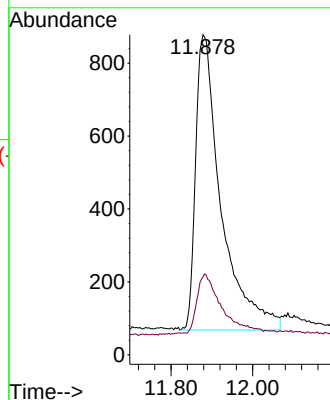
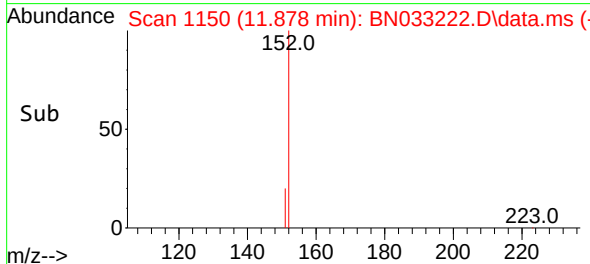
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion:152 Resp: 3510
Ion Ratio Lower Upper
152 100
151 18.8 16.2 24.2

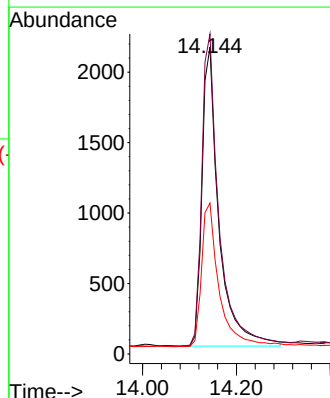
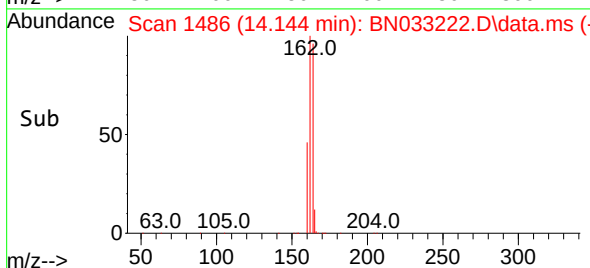
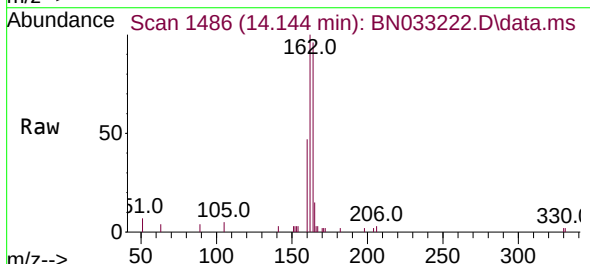
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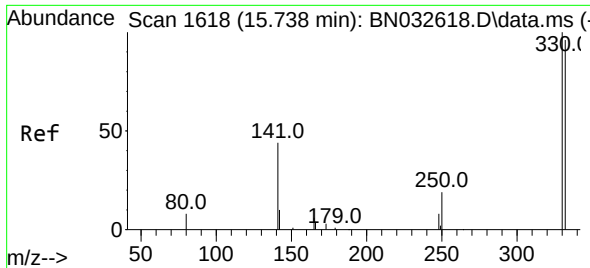
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.144 min Scan# 1486
Delta R.T. 0.007 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

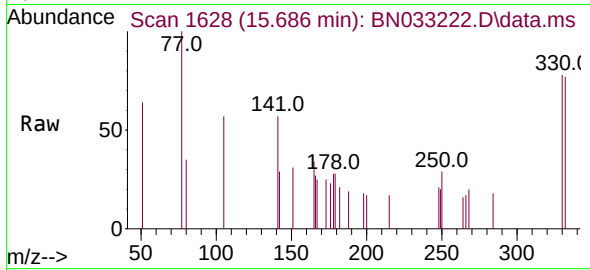
Tgt Ion:164 Resp: 5305
Ion Ratio Lower Upper
164 100
162 104.3 85.0 127.4
160 49.2 39.4 59.2





#14
2,4,6-Tribromophenol
Concen: 0.243 ng
RT: 15.686 min Scan# 1628
Delta R.T. -0.030 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

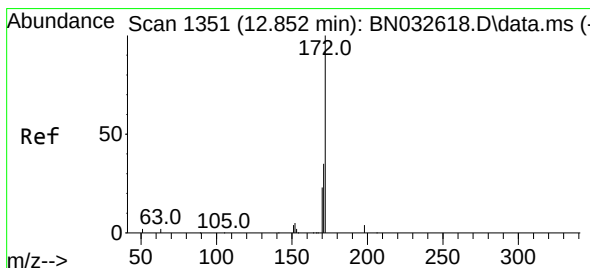
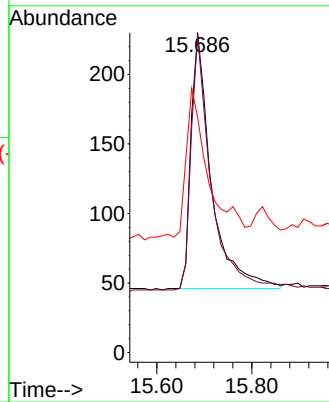
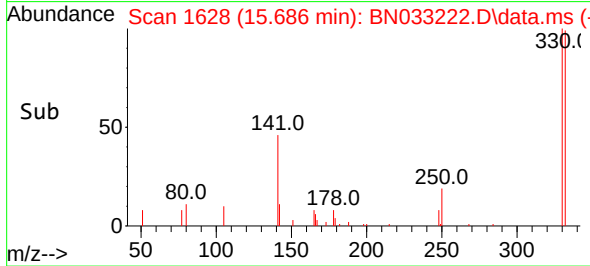
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion:330 Resp: 55
Ion Ratio Lower Upper
330 100
332 94.7 77.8 116.8
141 55.0 34.2 51.2

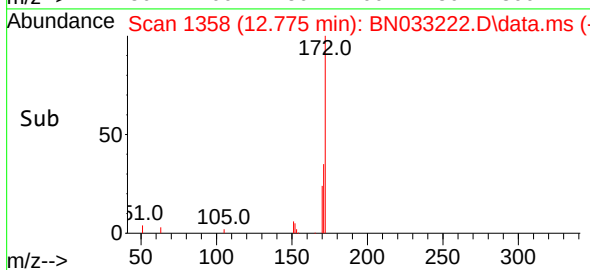
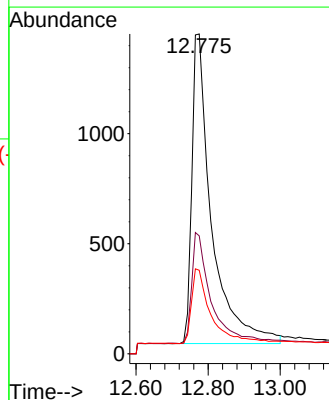
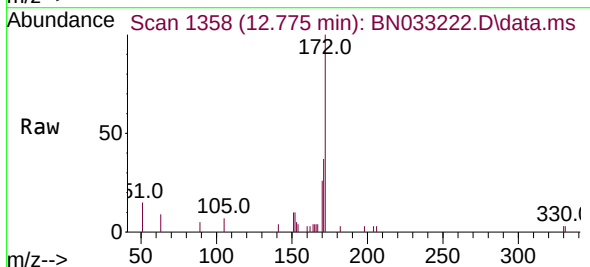
Manual Integrations
APPROVED

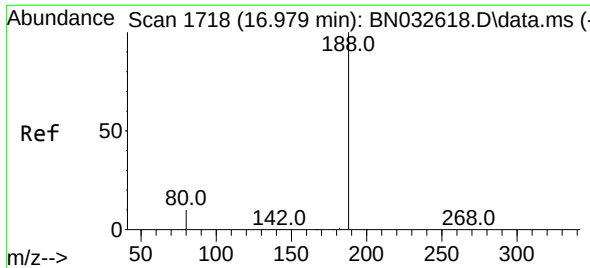
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#15
2-Fluorobiphenyl
Concen: 0.271 ng
RT: 12.775 min Scan# 1358
Delta R.T. -0.014 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

Tgt Ion:172 Resp: 5346
Ion Ratio Lower Upper
172 100
171 36.9 28.6 43.0
170 26.2 19.0 28.6





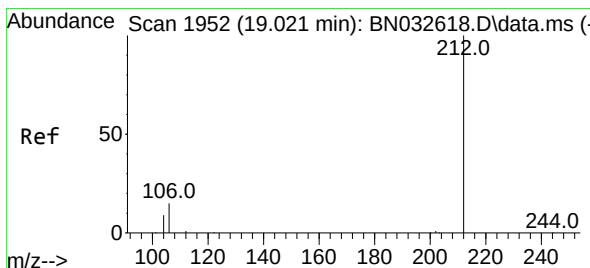
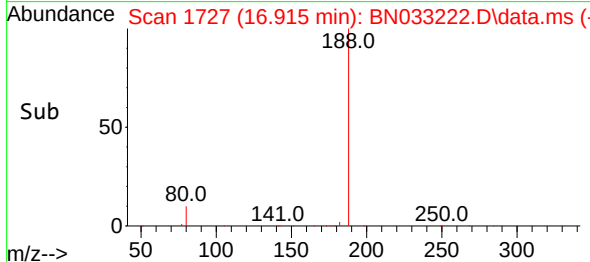
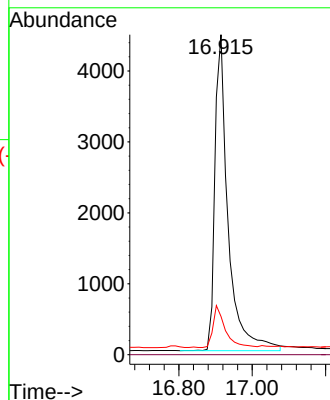
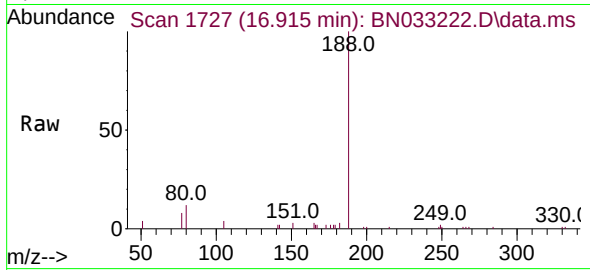
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.915 min Scan# 1111
Delta R.T. -0.005 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124

Tgt Ion:188 Resp: 1111
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.9 8.8 13.2

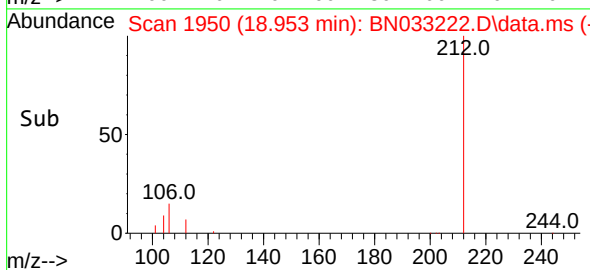
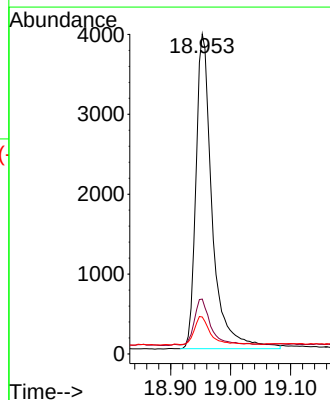
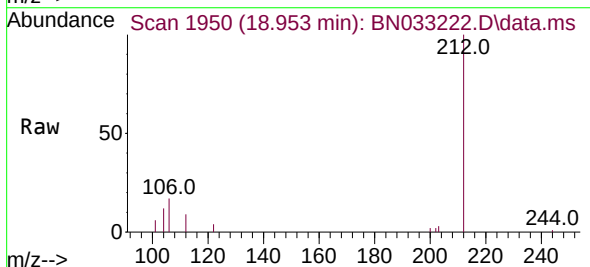
Manual Integrations
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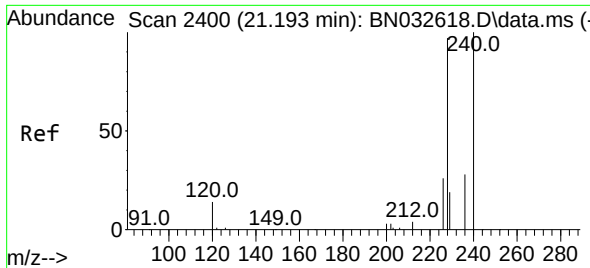
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.258 ng
RT: 18.953 min Scan# 1950
Delta R.T. -0.007 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

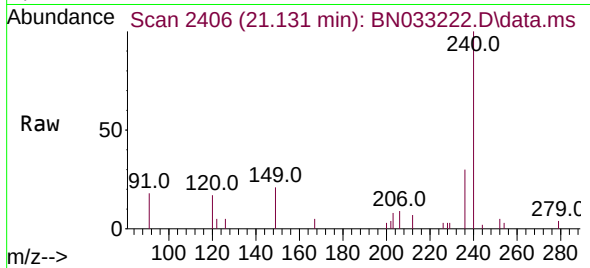
Tgt Ion:212 Resp: 7422
Ion Ratio Lower Upper
212 100
106 14.4 11.9 17.9
104 8.8 6.9 10.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.131 min Scan# 2406
Delta R.T. -0.002 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

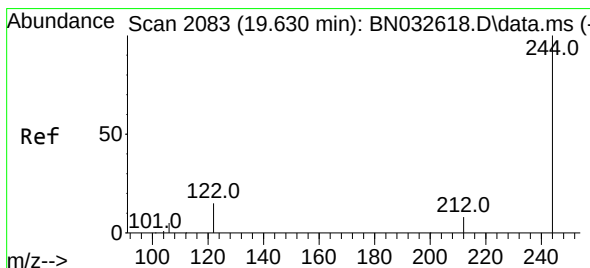
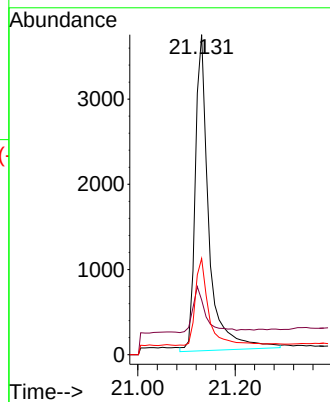
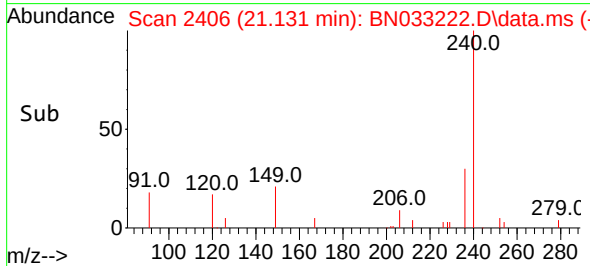
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion:240 Resp: 718
Ion Ratio Lower Upper
240 100
120 17.1 14.8 22.2
236 30.0 23.3 34.9

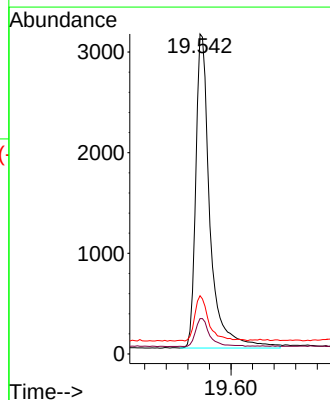
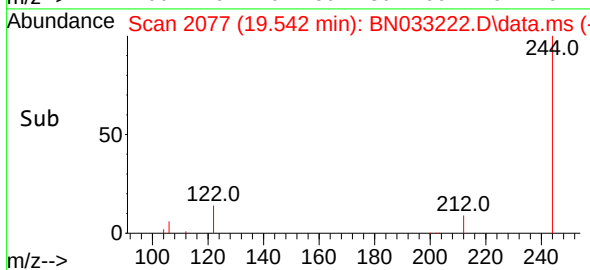
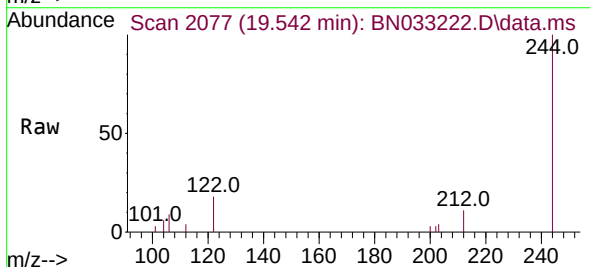
Manual Integrations
APPROVED

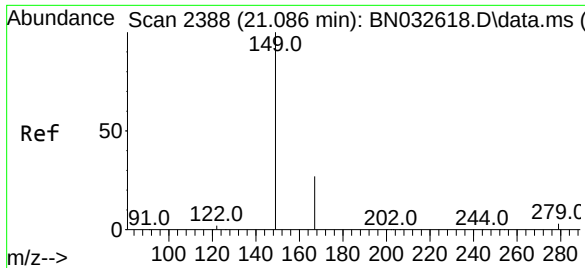
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.542 min Scan# 2077
Delta R.T. -0.021 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

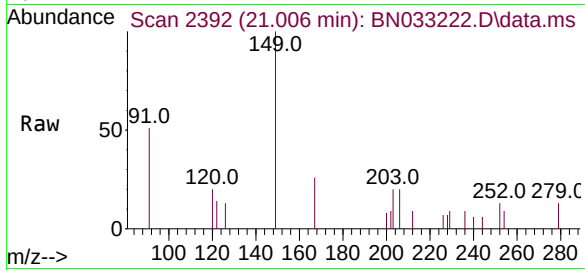
Tgt Ion:244 Resp: 5699
Ion Ratio Lower Upper
244 100
212 11.0 7.5 11.3
122 18.2 12.6 19.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.155 ng
RT: 21.006 min Scan# 21006
Delta R.T. -0.002 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

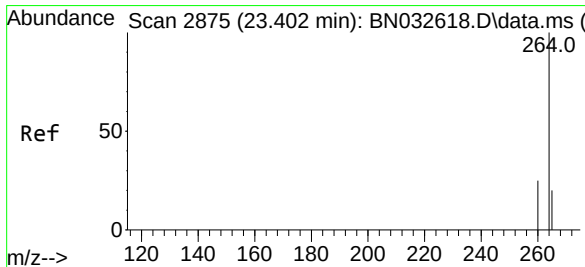
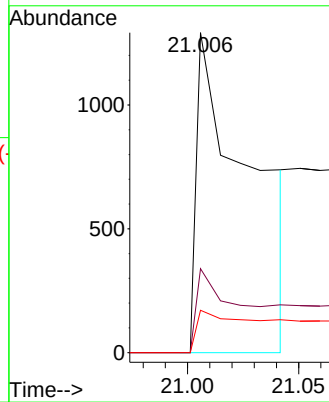
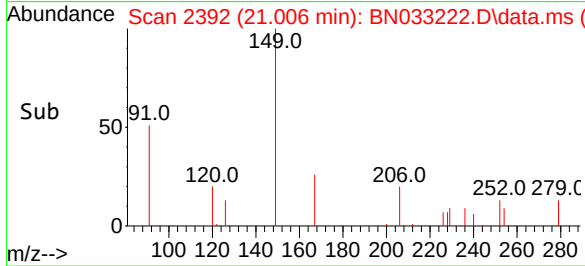
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124



Tgt Ion:149 Resp: 195
Ion Ratio Lower Upper
149 100
167 20.5 21.4 32.2
279 23.2 2.8 4.2

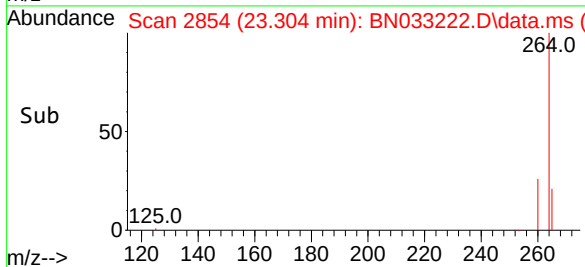
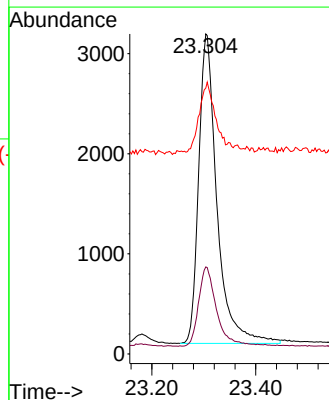
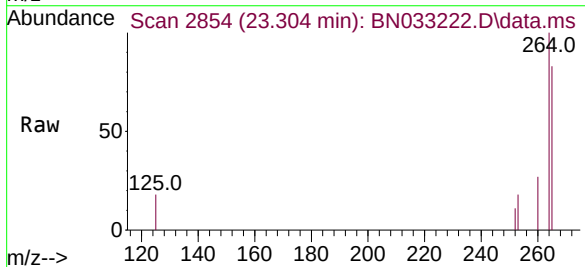
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.304 min Scan# 2854
Delta R.T. -0.011 min
Lab File: BN033222.D
Acq: 03 Aug 2024 03:39

Tgt Ion:264 Resp: 7529
Ion Ratio Lower Upper
264 100
260 27.2 20.9 31.3
265 83.1 85.4 128.2



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124-FD	SDG No.:	P3426
Lab Sample ID:	P3426-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	500 Units: mL	Final Vol:	500 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
BN033223.D	1	08/01/24 08:58	08/03/24 04:15	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.065	*	30 (30) - 150 (150)	32%	SPK: 0.2
93951-69-0	Fluoranthene-d10	0.086	*	30 (30) - 150 (150)	43%	SPK: 0.2
4165-60-0	Nitrobenzene-d5	0.084	*	30 (11) - 130 (175)	42%	SPK: 0.2
321-60-8	2-Fluorobiphenyl	0.084	*	30 (10) - 130 (175)	42%	SPK: 0.2
1718-51-0	Terphenyl-d14	0.27		30 (54) - 130 (171)	137%	SPK: 0.2
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	4560	7.51			
1146-65-2	Naphthalene-d8	15600	10.266			
15067-26-2	Acenaphthene-d10	7690	14.137			
1517-22-2	Phenanthrene-d10	15100	16.908			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124-FD	SDG No.:	P3426
Lab Sample ID:	P3426-02	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	500 Units: mL	Final Vol:	500 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
BN033223.D	1	08/01/24 08:58	08/03/24 04:15	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	13400	21.125			
1520-96-3	Perylene-d12	14300	23.3			

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\BN080324\
Data File : BN033223.D
Acq On : 03 Aug 2024 04:15
Operator : MA/JU
Sample : P3426-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 04:44:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	4557	0.400	ng	0.00
7) Naphthalene-d8	10.266	136	15575	0.400	ng	#-0.02
13) Acenaphthene-d10	14.137	164	7686	0.400	ng	0.00
19) Phenanthrene-d10	16.908	188	15096	0.400	ng	-0.01
29) Chrysene-d12	21.125	240	13422	0.400	ng	0.00
35) Perylene-d12	23.300	264	14336	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1475m	0.128	ng	-0.02
5) Phenol-d6	6.874	99	2178m	0.152	ng	0.00
8) Nitrobenzene-d5	8.813	82	1975	0.168	ng	0.00
11) 2-Methylnaphthalene-d10	11.871	152	3091	0.130	ng	-0.03
14) 2,4,6-Tribromophenol	15.679	330	497	0.151	ng	-0.04
15) 2-Fluorobiphenyl	12.768	172	4807	0.168	ng	-0.02
27) Fluoranthene-d10	18.955	212	6725	0.172	ng	0.00
31) Terphenyl-d14	19.540	244	15041	0.547	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.083	88	626	0.111	ng	# 52
34) Bis(2-ethylhexyl)phtha...	21.008	149	2442	0.104	ng	# 74

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

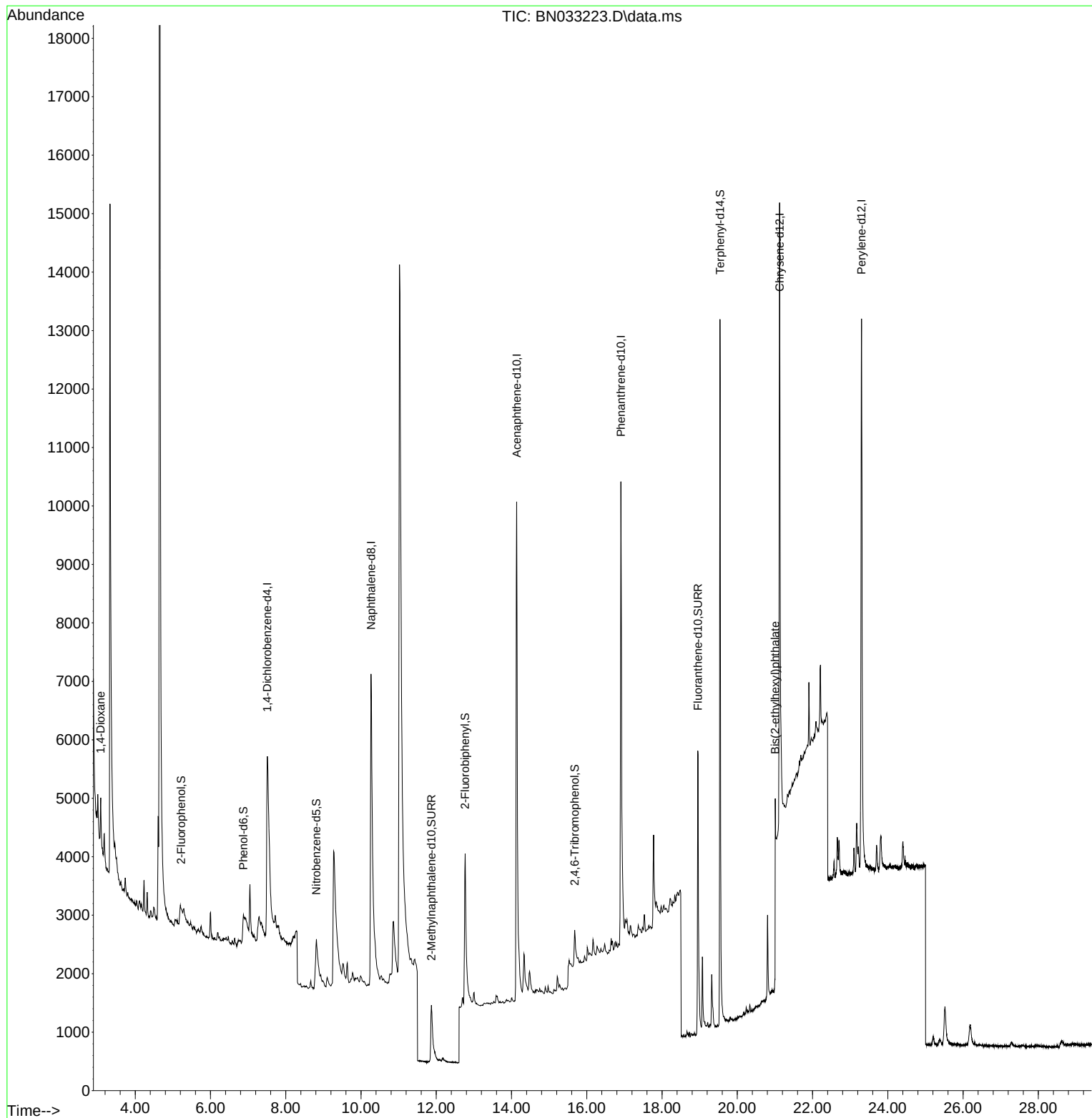
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033223.D
Acq On : 03 Aug 2024 04:15
Operator : MA/JU
Sample : P3426-02
Misc :
ALS Vial : 24 Sample Multiplier: 1

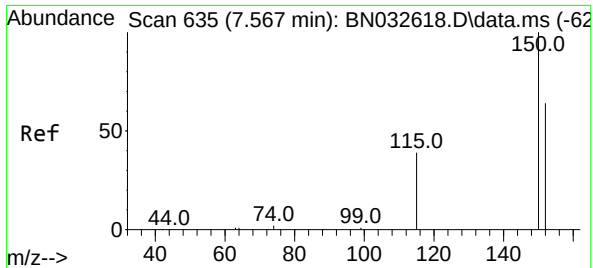
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

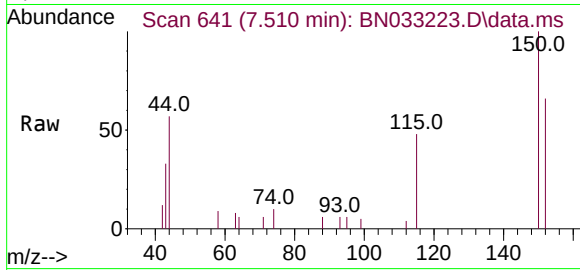
Quant Time: Aug 03 04:44:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.510 min Scan# 641
Delta R.T. 0.007 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

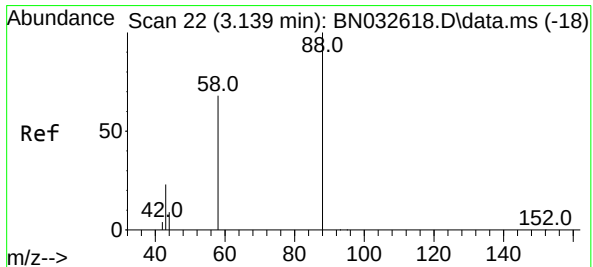
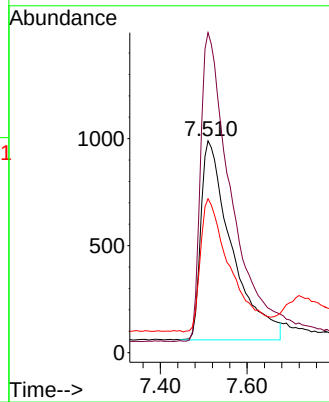
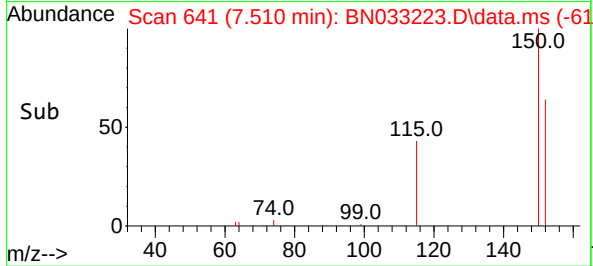
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion: 152 Resp: 455
Ion Ratio Lower Upper
152 100
150 151.0 123.8 185.6
115 72.6 52.8 79.2

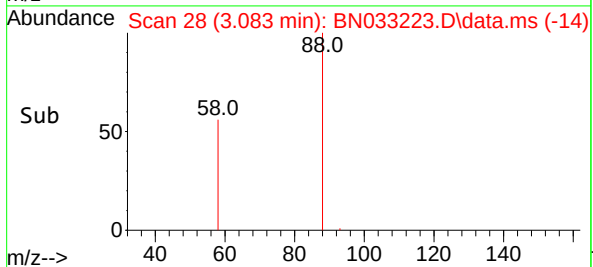
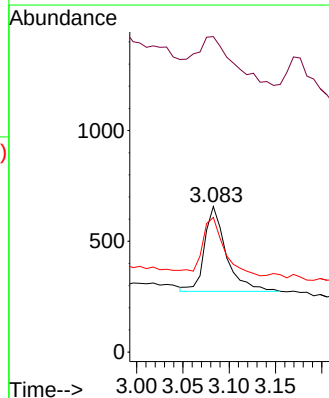
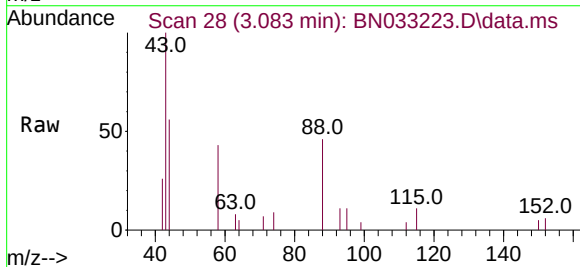
Manual Integrations
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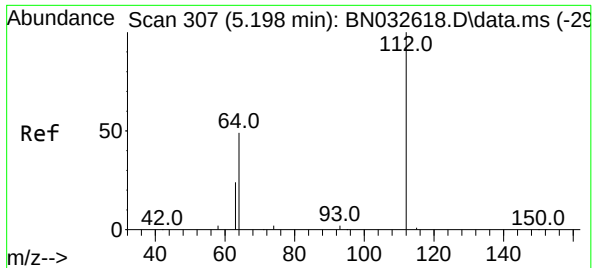
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.111 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

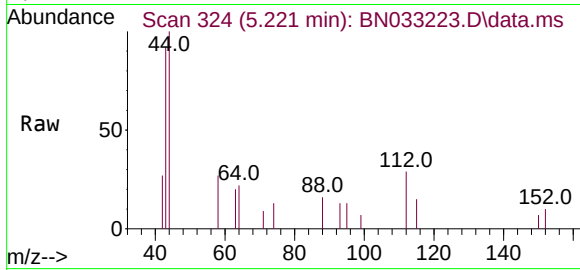
Tgt Ion: 88 Resp: 626
Ion Ratio Lower Upper
88 100
43 92.8 18.4 27.6#
58 70.4 49.2 73.8





#4
2-Fluorophenol
Concen: 0.128 ng m
RT: 5.221 min Scan# 31
Delta R.T. -0.022 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

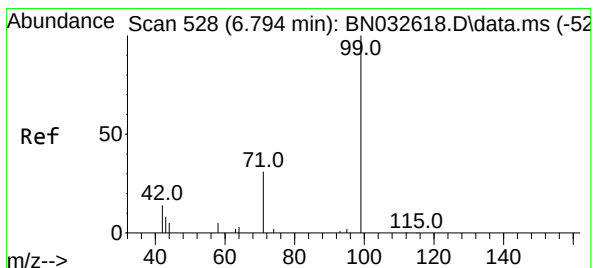
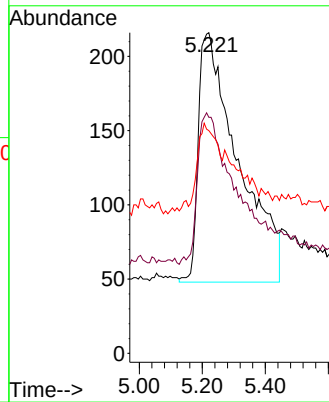
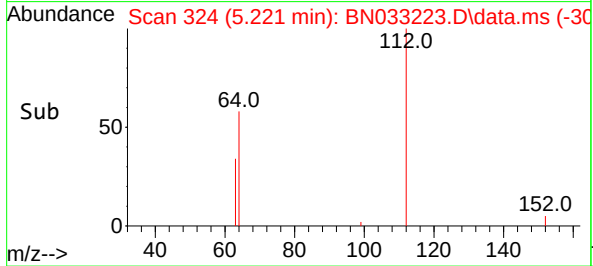
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion:112 Resp: 147
Ion Ratio Lower Upper
112 100
64 57.3 40.2 60.4
63 16.5 22.2 33.4

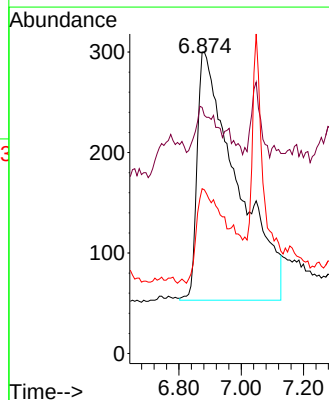
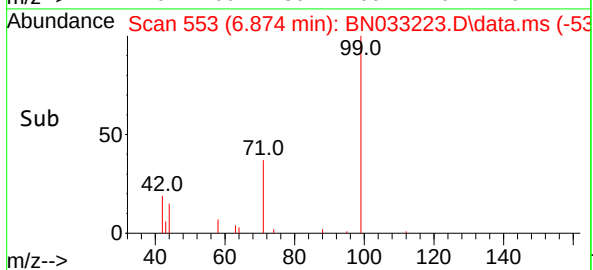
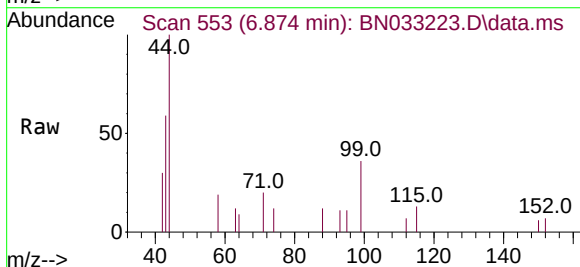
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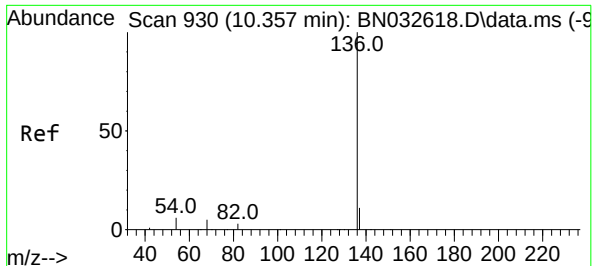
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#5
Phenol-d6
Concen: 0.152 ng m
RT: 6.874 min Scan# 553
Delta R.T. -0.007 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

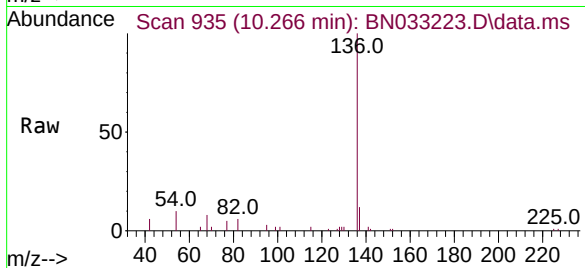
Tgt Ion: 99 Resp: 2178
Ion Ratio Lower Upper
99 100
42 8.6 10.5 15.7#
71 24.1 22.3 33.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.266 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

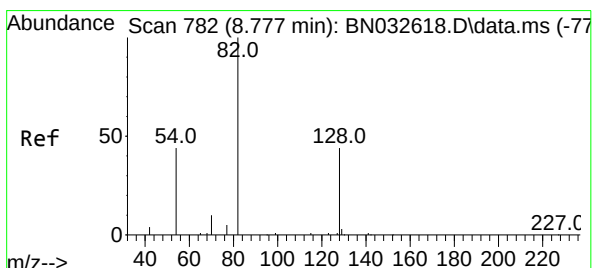
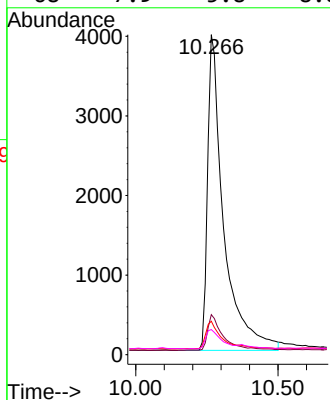
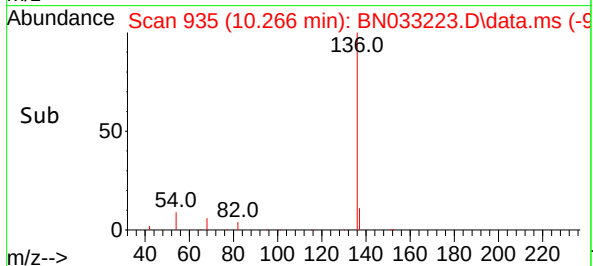
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion: 136 Resp: 1557
Ion Ratio Lower Upper
136 100
137 12.5 9.9 14.9
54 10.4 6.5 9.7
68 7.9 5.8 8.8

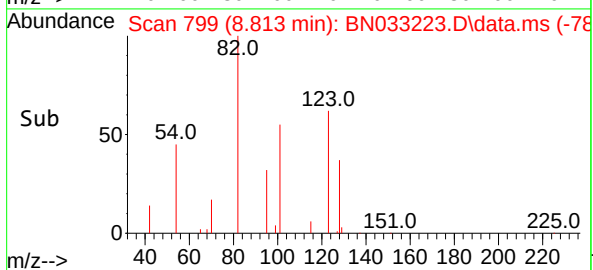
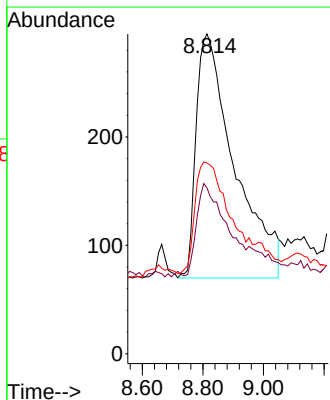
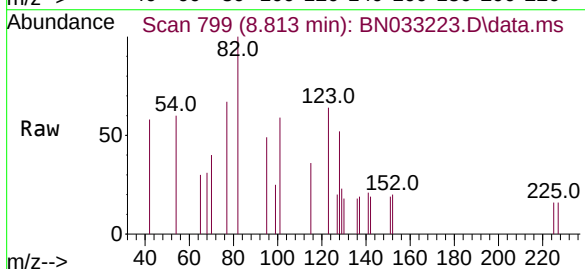
Manual Integrations
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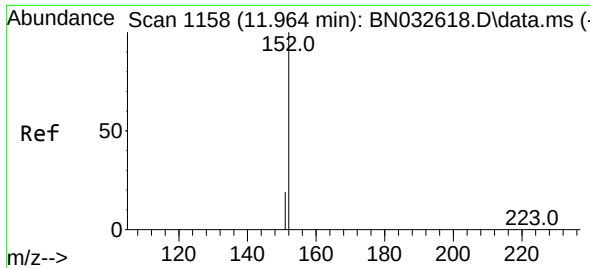
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.168 ng
RT: 8.813 min Scan# 799
Delta R.T. 0.000 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

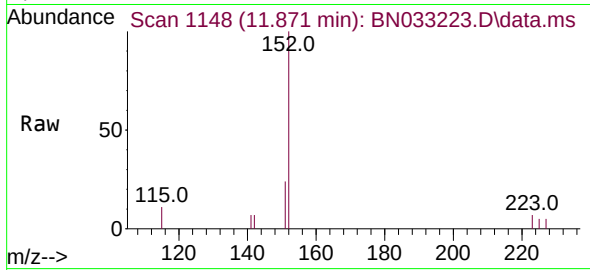
Tgt Ion: 82 Resp: 1975
Ion Ratio Lower Upper
82 100
128 51.9 41.7 62.5
54 59.7 39.5 59.3#





#11
2-Methylnaphthalene-d10
Concen: 0.130 ng
RT: 11.871 min Scan# 1158
Delta R.T. -0.030 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

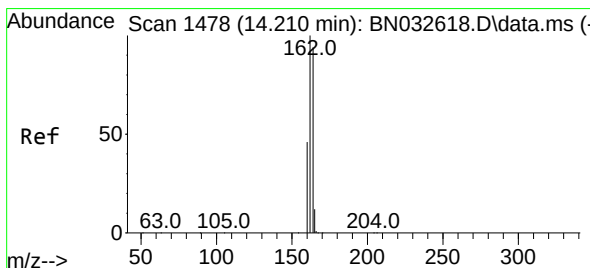
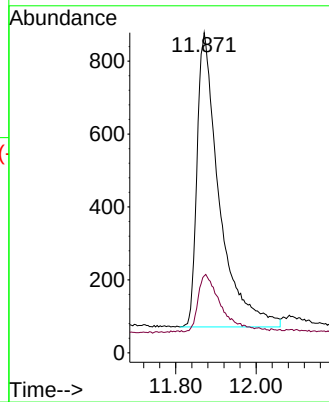
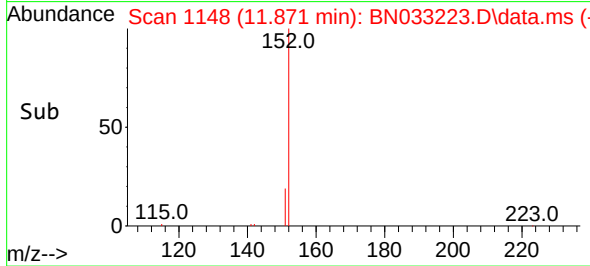
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion:152 Resp: 309
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.2

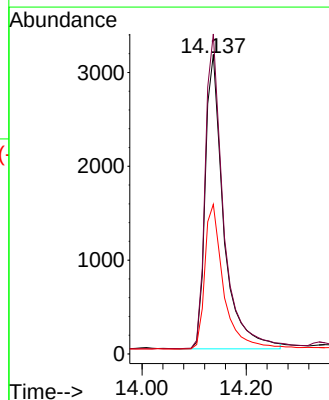
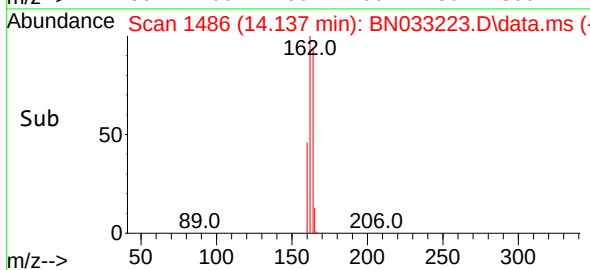
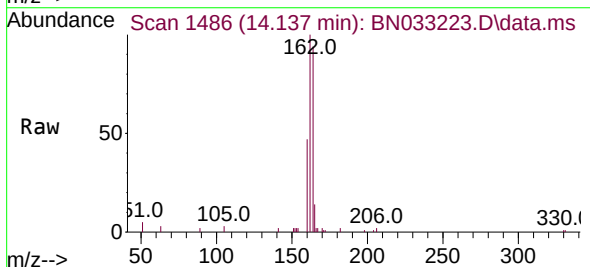
Manual Integrations
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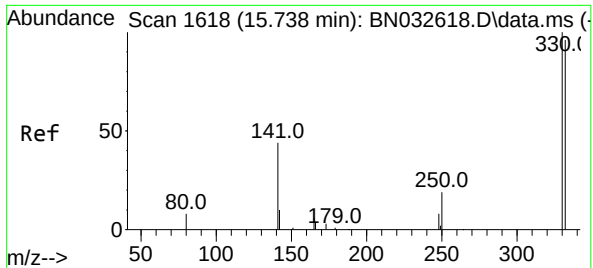
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

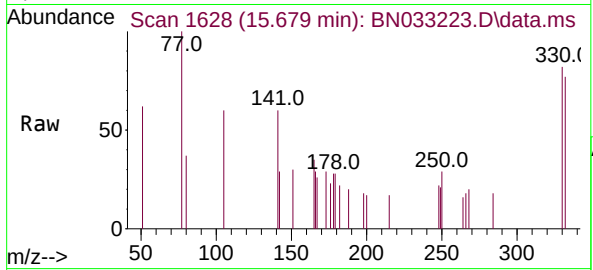
Tgt Ion:164 Resp: 7686
Ion Ratio Lower Upper
164 100
162 106.9 85.0 127.4
160 50.0 39.4 59.2





#14
2,4,6-Tribromophenol
Concen: 0.151 ng
RT: 15.679 min Scan# 1628
Delta R.T. -0.037 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

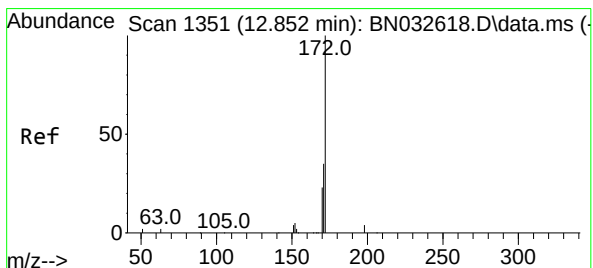
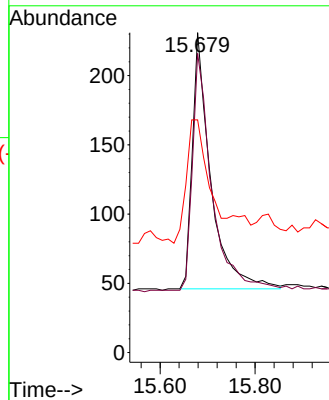
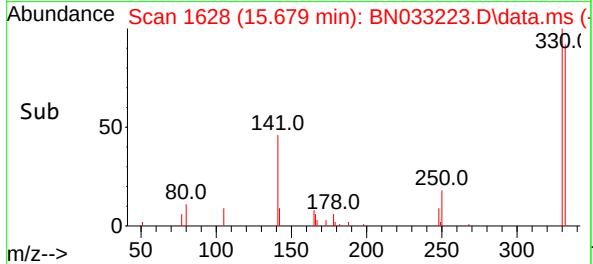
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion: 330 Resp: 49
Ion Ratio Lower Upper
330 100
332 97.4 77.8 116.8
141 46.1 34.2 51.2

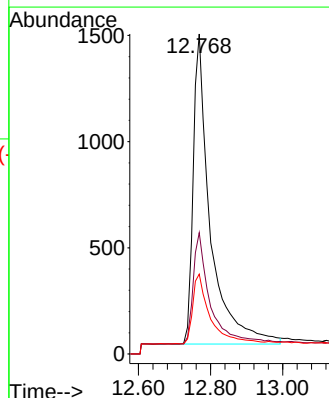
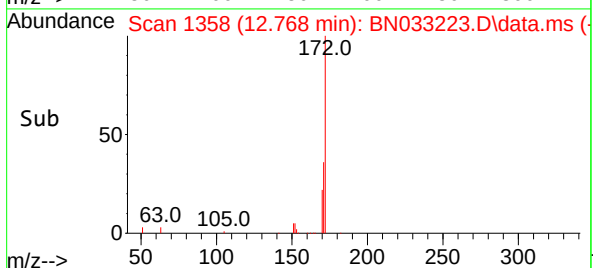
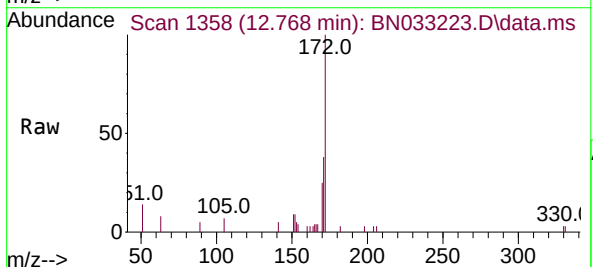
Manual Integrations
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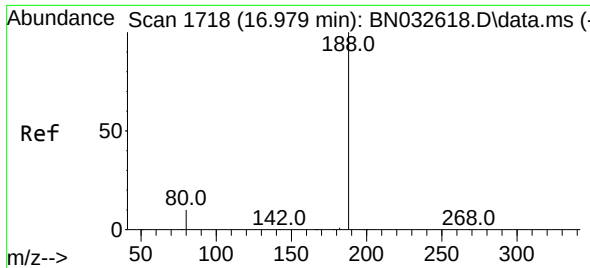
Reviewed By : Yogesh Patel 08/05/2024
Supervised By : mohammad ahmed 08/07/2024



#15
2-Fluorobiphenyl
Concen: 0.168 ng
RT: 12.768 min Scan# 1358
Delta R.T. -0.021 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

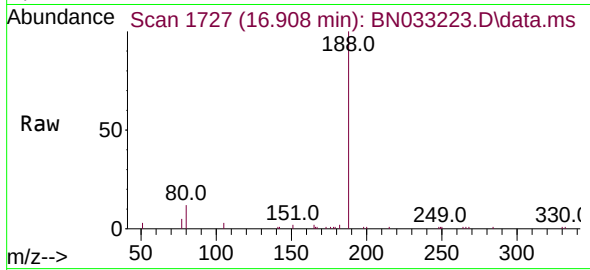
Tgt Ion: 172 Resp: 4807
Ion Ratio Lower Upper
172 100
171 37.9 28.6 43.0
170 25.0 19.0 28.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.908 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

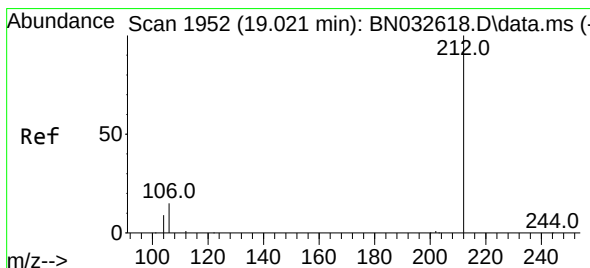
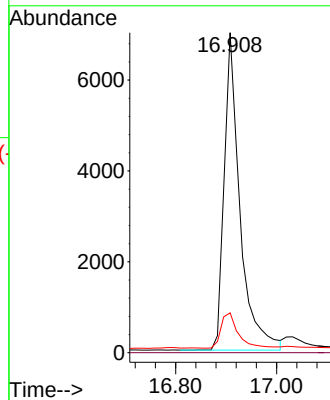
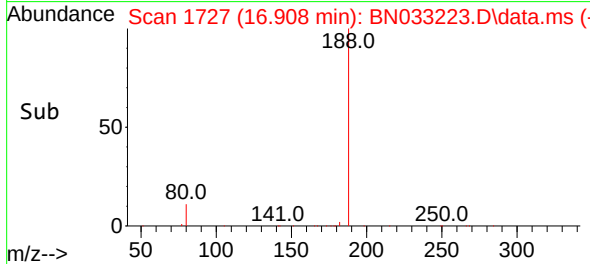
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion:188 Resp: 15090
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.4 8.8 13.2

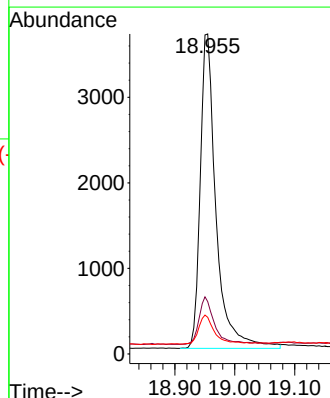
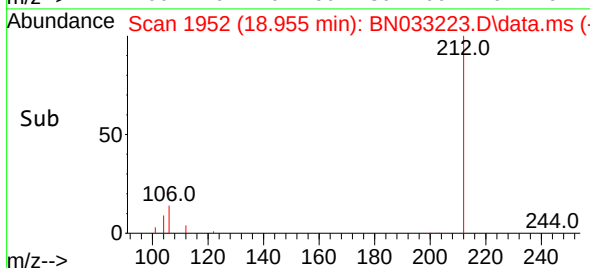
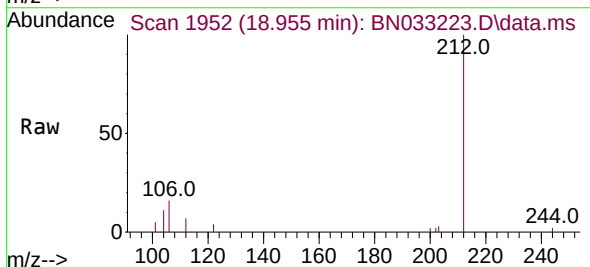
Manual Integrations
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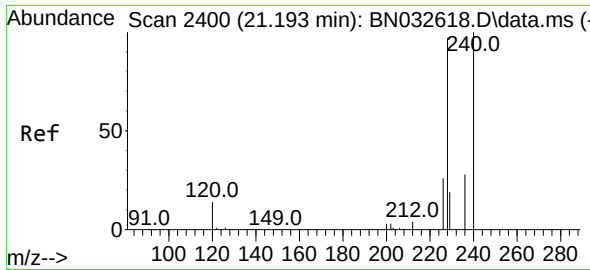
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.172 ng
RT: 18.955 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

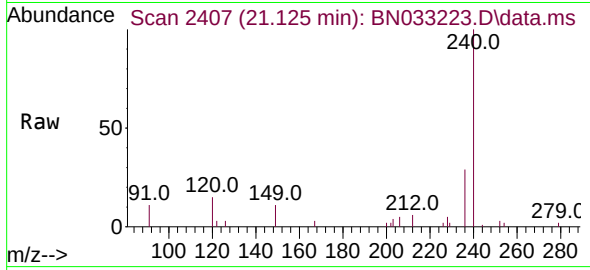
Tgt Ion:212 Resp: 6725
Ion Ratio Lower Upper
212 100
106 15.2 11.9 17.9
104 9.2 6.9 10.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.125 min Scan# 2407
Delta R.T. -0.009 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

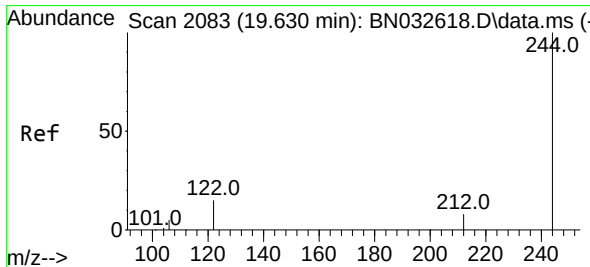
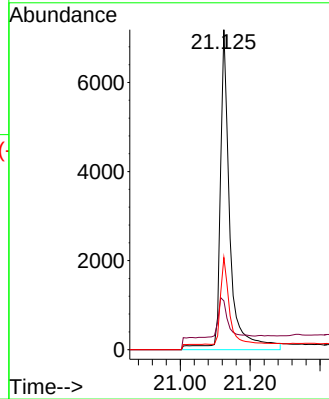
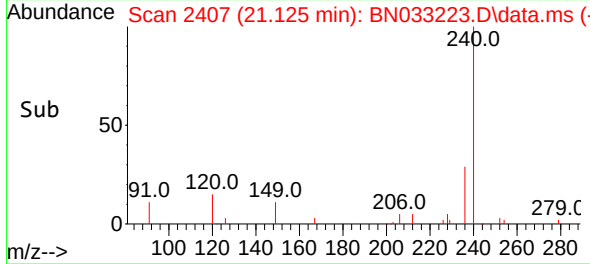
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion:240 Resp: 1342
Ion Ratio Lower Upper
240 100
120 15.2 14.8 22.2
236 28.8 23.3 34.9

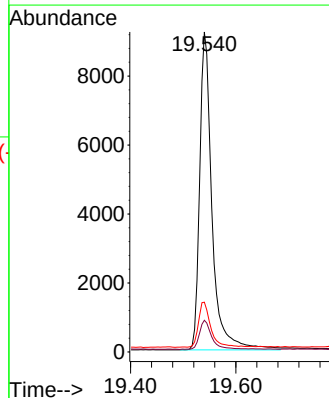
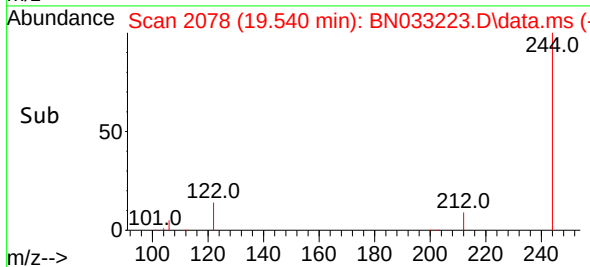
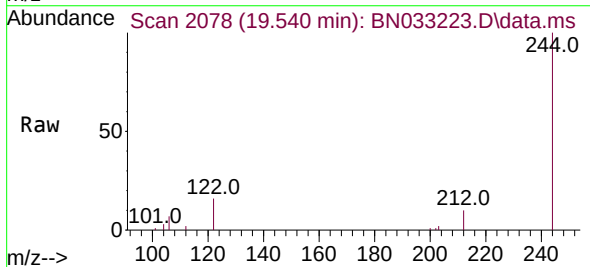
Manual Integrations
APPROVED

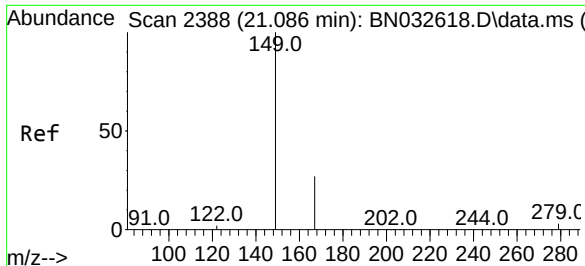
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31
Terphenyl-d14
Concen: 0.547 ng
RT: 19.540 min Scan# 2078
Delta R.T. -0.023 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

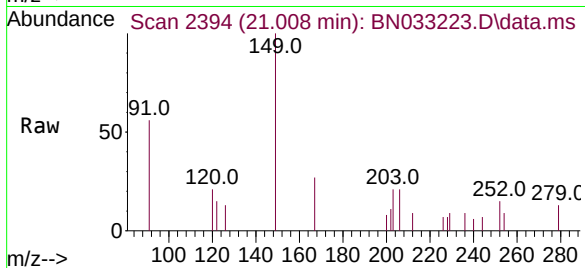
Tgt Ion:244 Resp: 15041
Ion Ratio Lower Upper
244 100
212 9.9 7.5 11.3
122 15.6 12.6 19.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.104 ng
RT: 21.008 min Scan# 2111
Delta R.T. 0.000 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

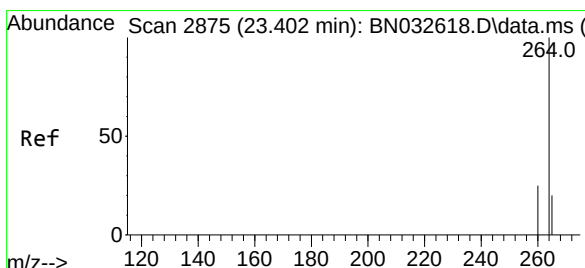
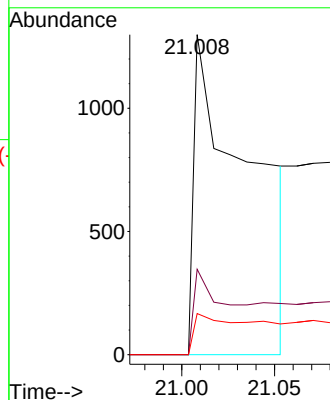
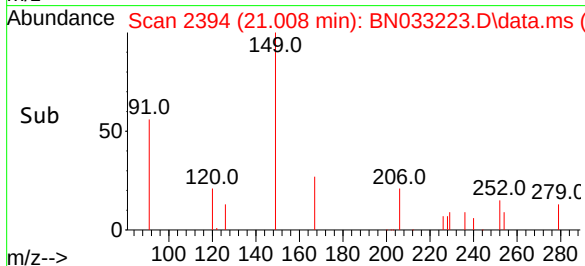
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FD



Tgt Ion:149 Resp: 2442
Ion Ratio Lower Upper
149 100
167 12.7 21.4 32.2
279 10.1 2.8 4.2

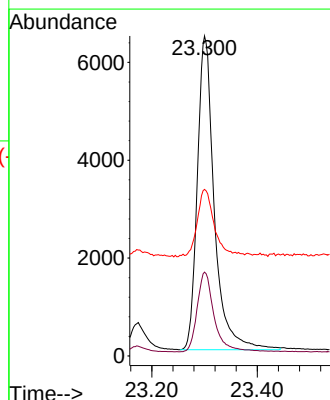
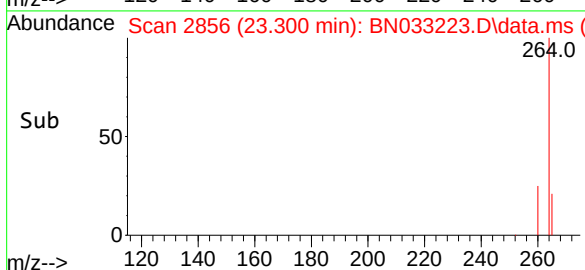
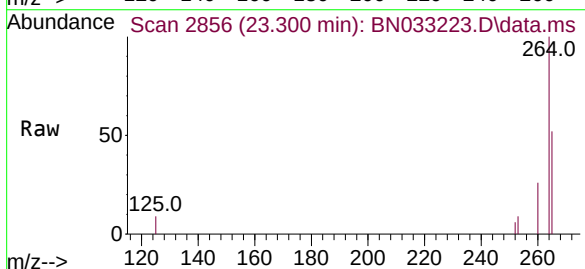
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.300 min Scan# 2856
Delta R.T. -0.014 min
Lab File: BN033223.D
Acq: 03 Aug 2024 04:15

Tgt Ion:264 Resp: 14336
Ion Ratio Lower Upper
264 100
260 26.2 20.9 31.3
265 52.0 85.4 128.2



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124-FDRE	SDG No.:	P3426
Lab Sample ID:	P3426-02RE	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	500 Units: mL	Final Vol:	500 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
BN033237.D	1	08/01/24 08:58	08/03/24 14:00	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.11	J	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.067	*	30 (30) - 150 (150)	33%	SPK: 0.2
93951-69-0	Fluoranthene-d10	0.089	*	30 (30) - 150 (150)	44%	SPK: 0.2
4165-60-0	Nitrobenzene-d5	0.083	*	30 (11) - 130 (175)	41%	SPK: 0.2
321-60-8	2-Fluorobiphenyl	0.081	*	30 (10) - 130 (175)	41%	SPK: 0.2
1718-51-0	Terphenyl-d14	0.33		30 (54) - 130 (171)	166%	SPK: 0.2
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	4570	7.517			
1146-65-2	Naphthalene-d8	16600	10.265			
15067-26-2	Acenaphthene-d10	9400	14.137			
1517-22-2	Phenanthrene-d10	19900	16.908			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/31/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	927-K1-WS-073124-FDRE	SDG No.:	P3426
Lab Sample ID:	P3426-02RE	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	500 Units: mL	Final Vol:	500 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
BN033237.D	1	08/01/24 08:58	08/03/24 14:00	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	14600	21.134			
1520-96-3	Perylene-d12	14900	23.306			

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\BN080324\
Data File : BN033237.D
Acq On : 03 Aug 2024 14:00
Operator : MA/JU
Sample : P3426-02RE
Misc :
ALS Vial : 42 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:27:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.517	152	4565	0.400	ng	0.01
7) Naphthalene-d8	10.265	136	16642	0.400	ng	#-0.02
13) Acenaphthene-d10	14.137	164	9402	0.400	ng	0.00
19) Phenanthrene-d10	16.908	188	19875	0.400	ng	-0.01
29) Chrysene-d12	21.134	240	14622	0.400	ng	# 0.00
35) Perylene-d12	23.306	264	14874	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1472m	0.127	ng	-0.01
5) Phenol-d6	6.874	99	2139m	0.149	ng	0.00
8) Nitrobenzene-d5	8.803	82	2074m	0.166	ng	-0.01
11) 2-Methylnaphthalene-d10	11.871	152	3396	0.133	ng	-0.03
14) 2,4,6-Tribromophenol	15.679	330	615	0.153	ng	-0.04
15) 2-Fluorobiphenyl	12.758	172	5686	0.162	ng	-0.03
27) Fluoranthene-d10	18.950	212	9116	0.177	ng	0.00
31) Terphenyl-d14	19.540	244	19950	0.666	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.083	88	642	0.114	ng	# 54
34) Bis(2-ethylhexyl)phtha...	21.008	149	3357	0.131	ng	# 98

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

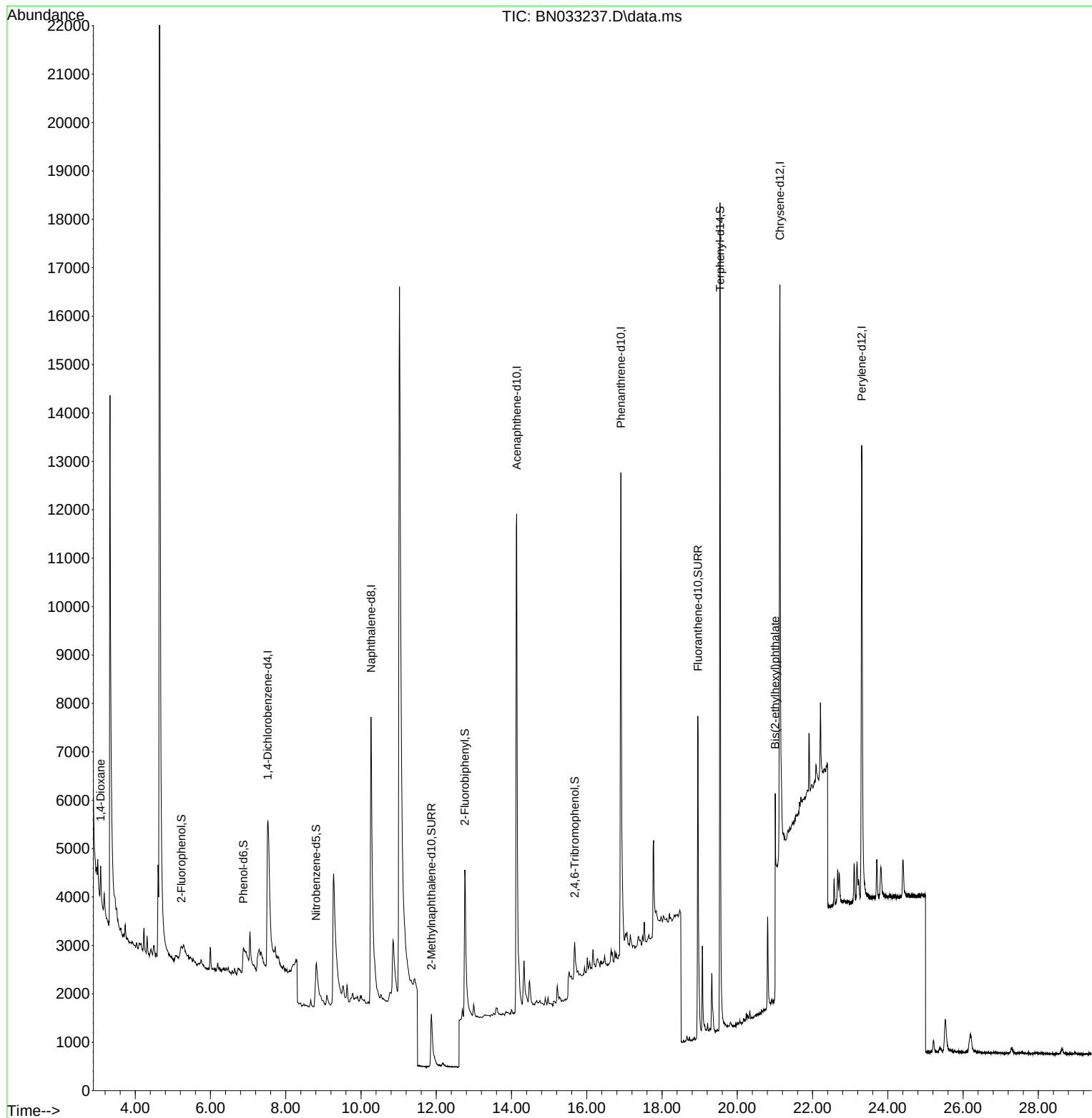
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033237.D
Acq On : 03 Aug 2024 14:00
Operator : MA/JU
Sample : P3426-02RE
Misc :
ALS Vial : 42 Sample Multiplier: 1

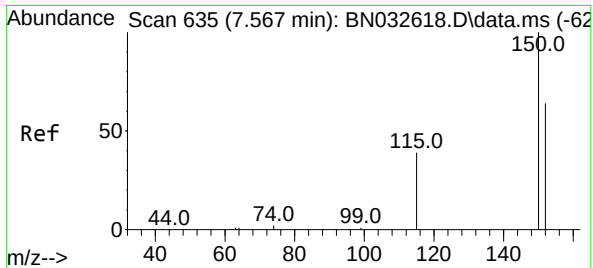
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

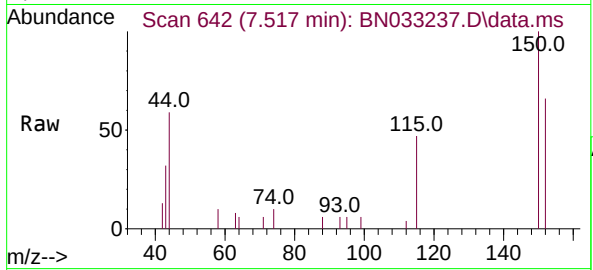
Quant Time: Aug 05 03:27:27 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.517 min Scan# 642
Delta R.T. 0.014 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

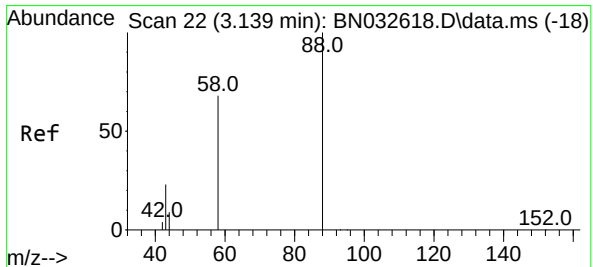
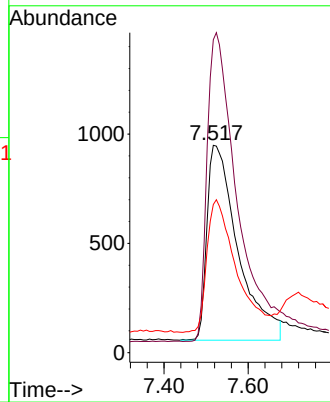
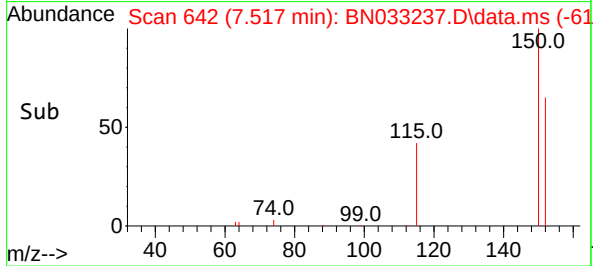
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE



Tgt Ion:152 Resp: 456
Ion Ratio Lower Upper
152 100
150 150.9 123.8 185.6
115 71.4 52.8 79.2

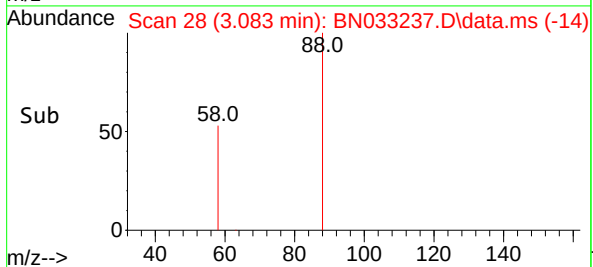
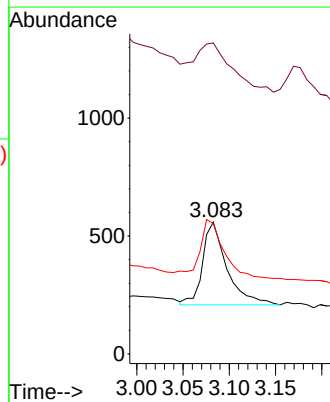
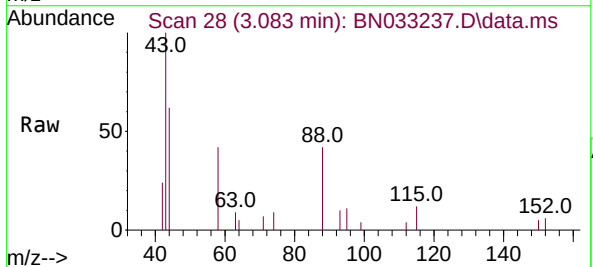
Manual Integrations
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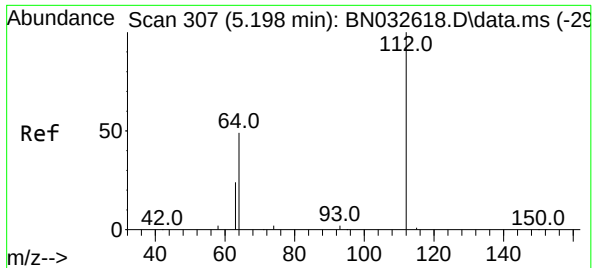
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.114 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Tgt Ion: 88 Resp: 642
Ion Ratio Lower Upper
88 100
43 87.1 18.4 27.6#
58 72.0 49.2 73.8





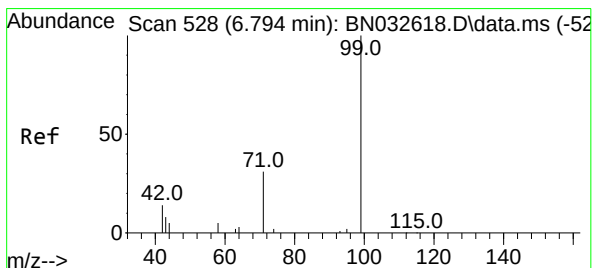
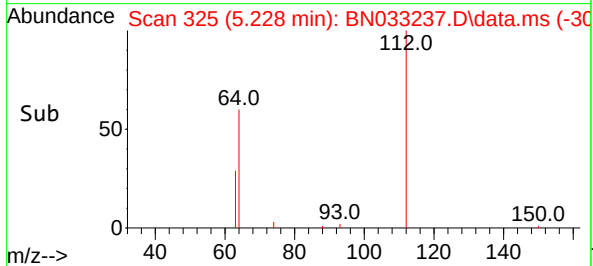
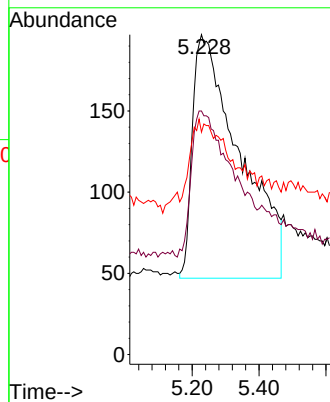
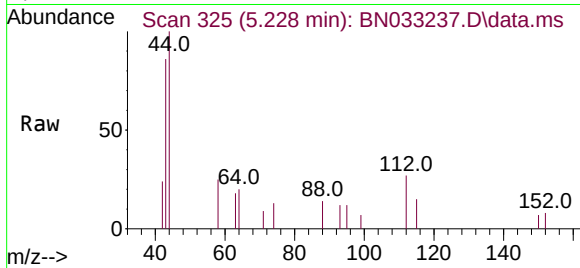
#4
2-Fluorophenol
Concen: 0.127 ng m
RT: 5.228 min Scan# 31
Delta R.T. -0.014 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE

Tgt Ion:112 Resp: 147
Ion Ratio Lower Upper
112 100
64 52.9 40.2 60.4
63 8.2 22.2 33.4

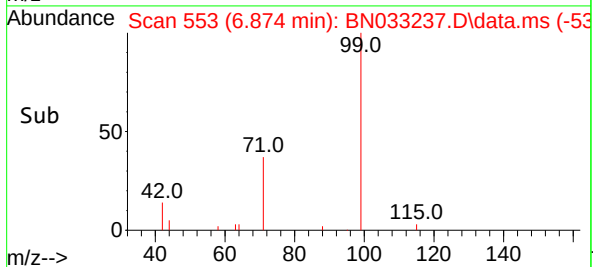
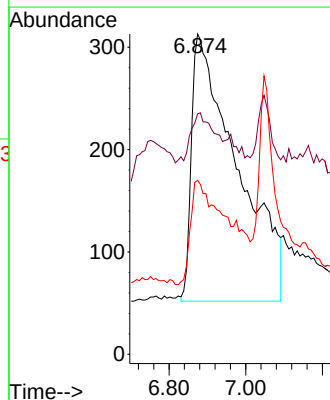
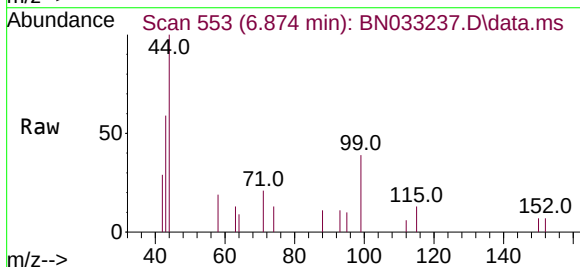
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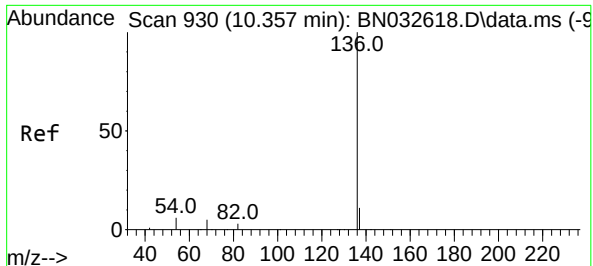
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#5
Phenol-d6
Concen: 0.149 ng m
RT: 6.874 min Scan# 553
Delta R.T. -0.007 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Tgt Ion: 99 Resp: 2139
Ion Ratio Lower Upper
99 100
42 9.6 10.5 15.7#
71 33.0 22.3 33.5





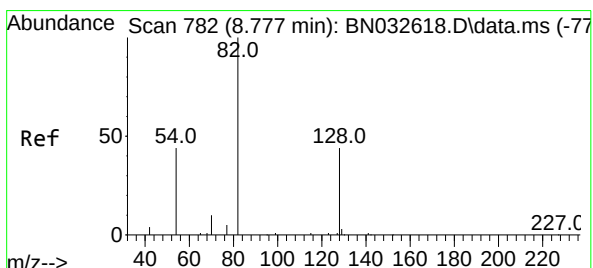
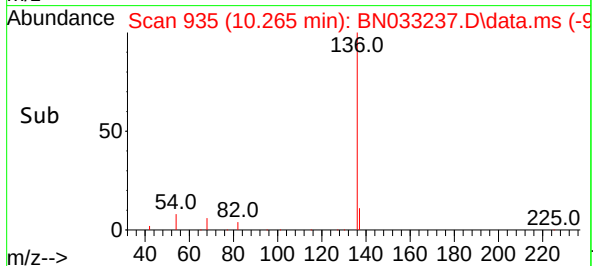
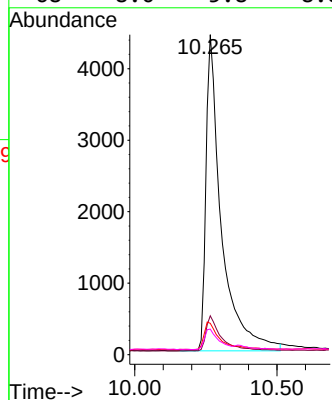
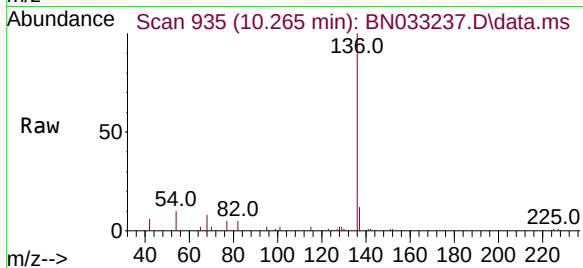
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.265 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.9	14.9
54	9.8	6.5	9.7
68	8.0	5.8	8.8

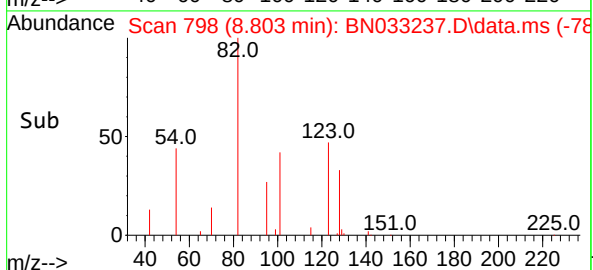
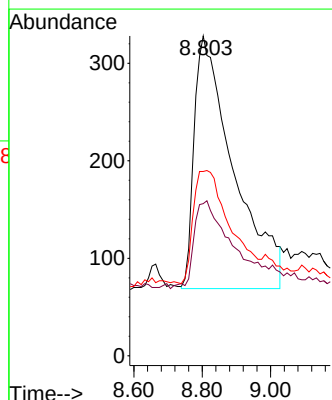
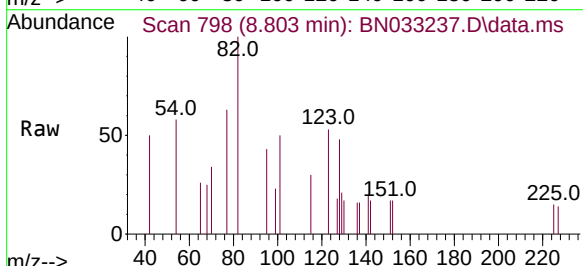
Manual Integrations
APPROVED

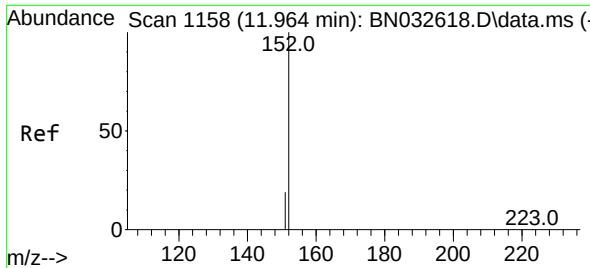
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.166 ng m
RT: 8.803 min Scan# 798
Delta R.T. -0.011 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

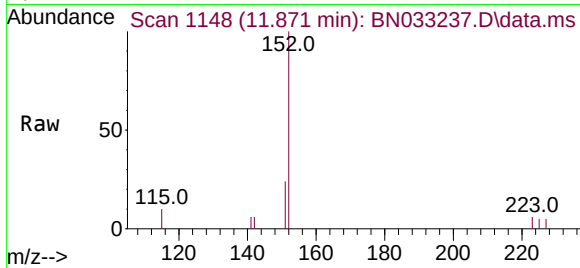
Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.6	41.7	62.5
54	57.6	39.5	59.3





#11
2-Methylnaphthalene-d10
Concen: 0.133 ng
RT: 11.871 min Scan# 1158
Delta R.T. -0.030 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

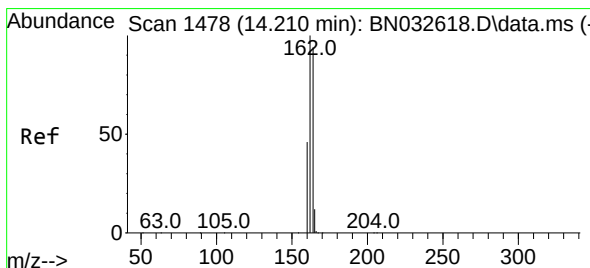
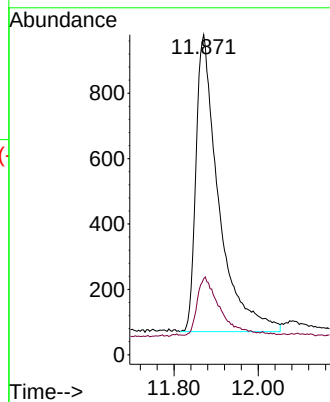
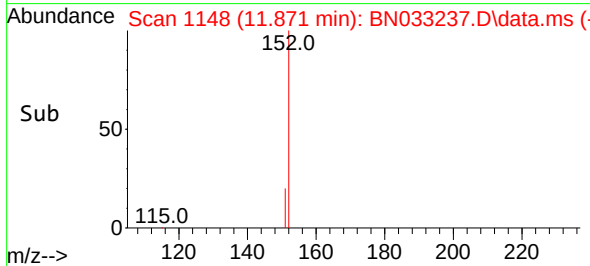
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE



Tgt Ion:152 Resp: 3390
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2

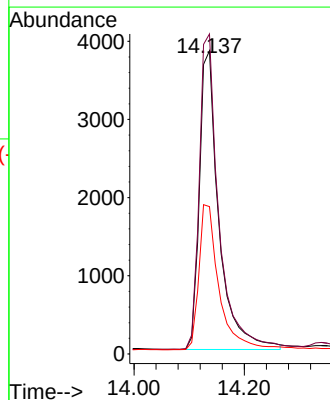
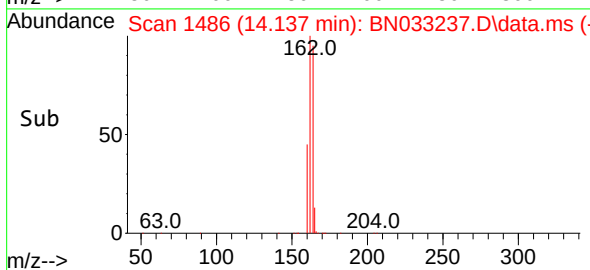
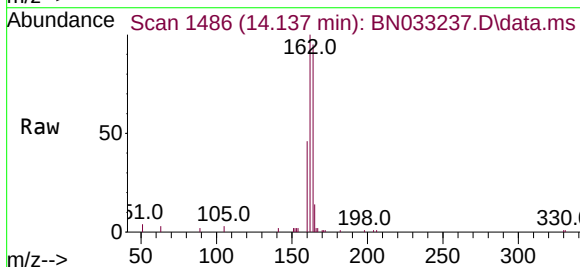
Manual Integrations
APPROVED

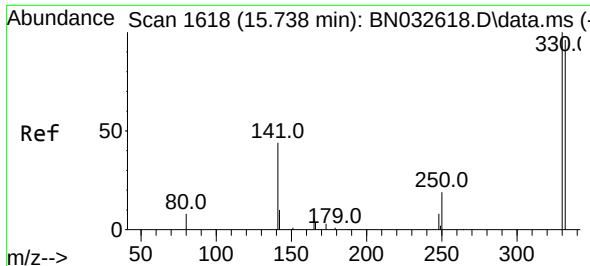
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

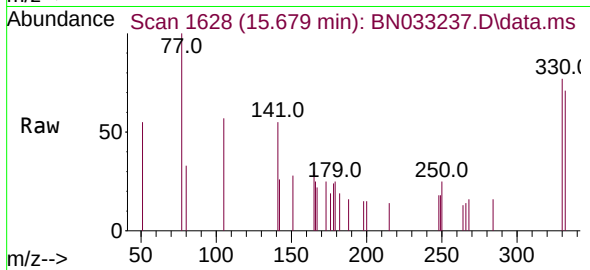
Tgt Ion:164 Resp: 9402
Ion Ratio Lower Upper
164 100
162 105.5 85.0 127.4
160 48.6 39.4 59.2





#14
2,4,6-Tribromophenol
Concen: 0.153 ng
RT: 15.679 min Scan# 1618
Delta R.T. -0.037 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

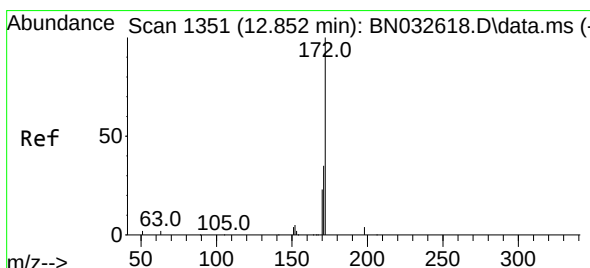
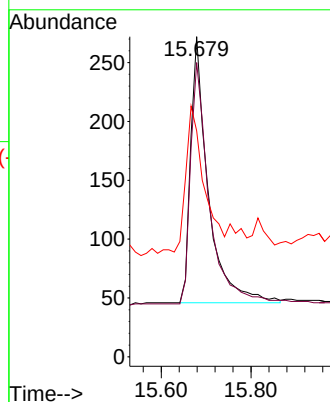
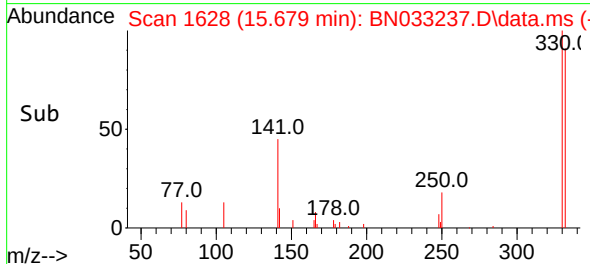
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE



Tgt Ion: 330 Resp: 61.0
Ion Ratio Lower Upper
330 100
332 96.4 77.8 116.8
141 47.6 34.2 51.2

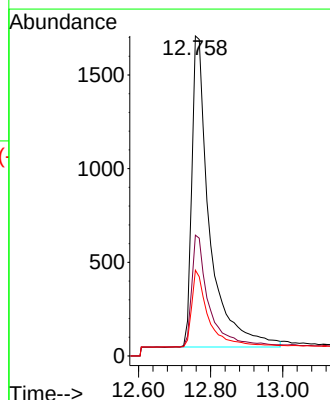
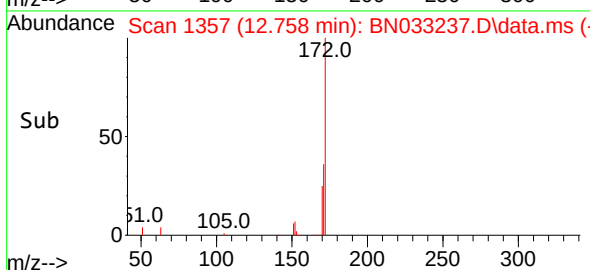
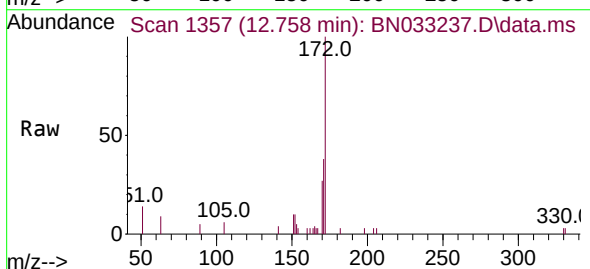
Manual Integrations
APPROVED

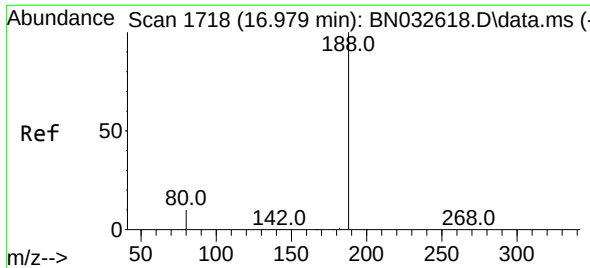
Reviewed By : Jagrut Upadhyay 08/05/2024
Supervised By : mohammad ahmed 08/07/2024



#15
2-Fluorobiphenyl
Concen: 0.162 ng
RT: 12.758 min Scan# 1357
Delta R.T. -0.032 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

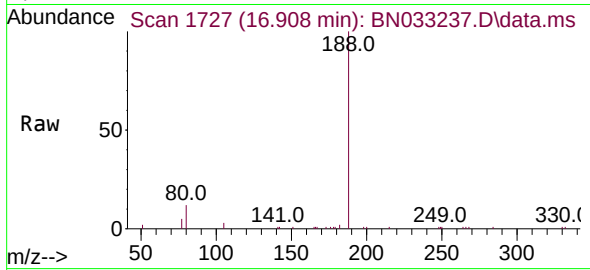
Tgt Ion: 172 Resp: 5686
Ion Ratio Lower Upper
172 100
171 37.8 28.6 43.0
170 26.8 19.0 28.6





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.908 min Scan# 11
Delta R.T. -0.012 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

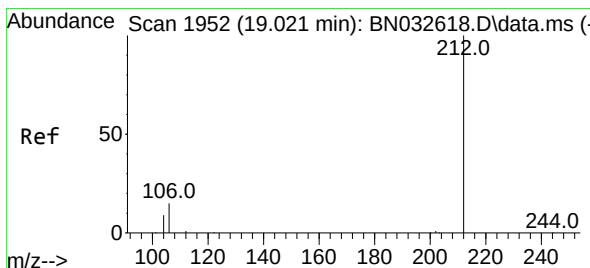
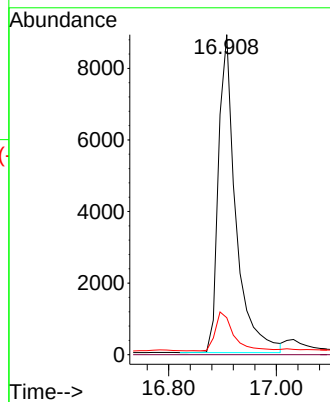
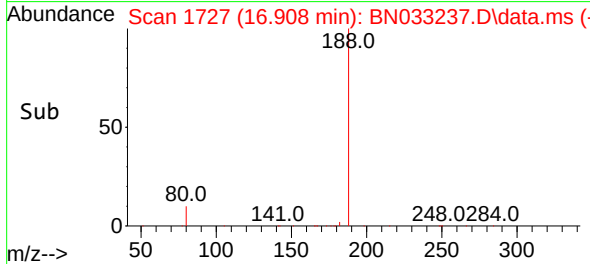
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE



Tgt Ion:188 Resp: 1987
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.5 8.8 13.2

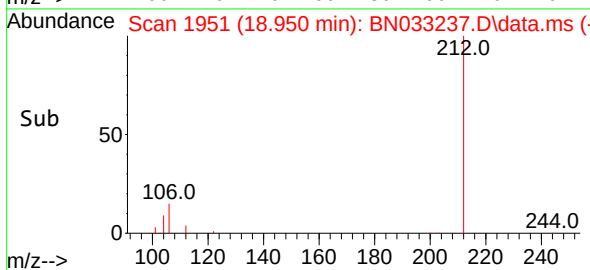
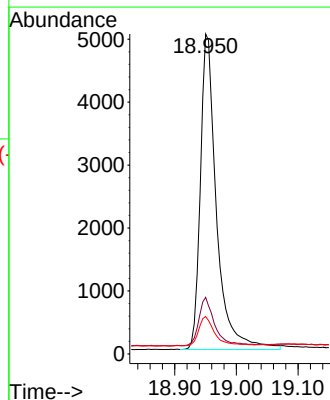
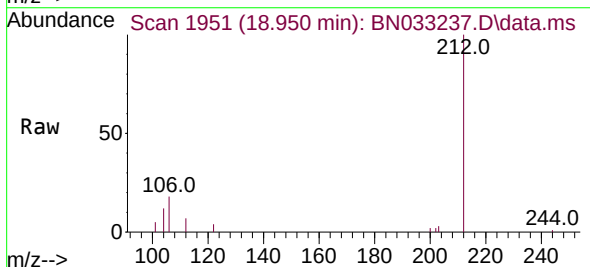
Manual Integrations
APPROVED

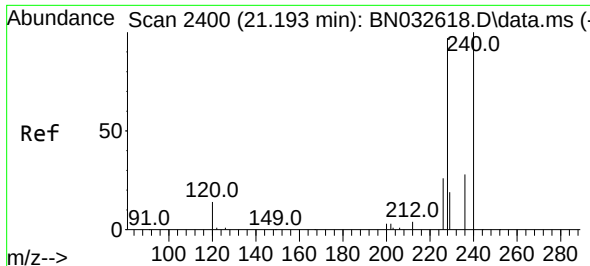
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#27
Fluoranthene-d10
Concen: 0.177 ng
RT: 18.950 min Scan# 1951
Delta R.T. -0.009 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Tgt Ion:212 Resp: 9116
Ion Ratio Lower Upper
212 100
106 15.2 11.9 17.9
104 9.2 6.9 10.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.134 min Scan# 2408

Delta R.T. 0.000 min

Lab File: BN033237.D

Acq: 03 Aug 2024 14:00

Instrument :

BNA_N

ClientSampleId :

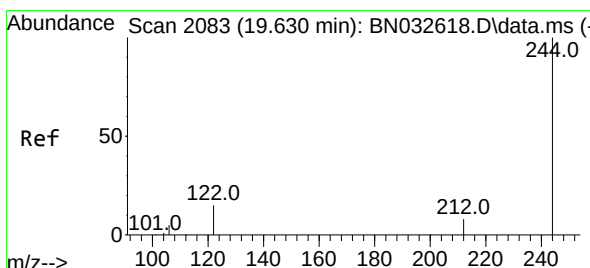
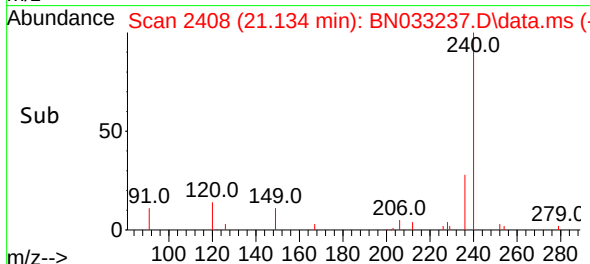
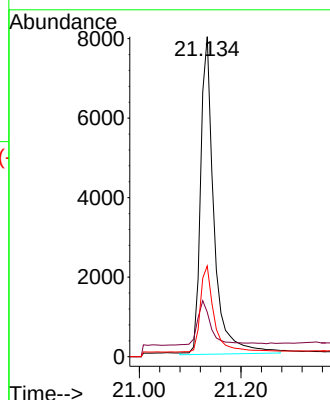
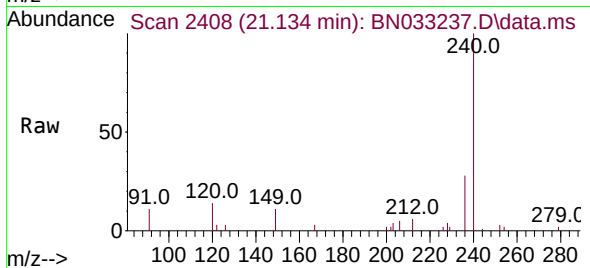
927-K1-WS-073124-FDRE

Tgt Ion:	240	Resp:	1462
Ion Ratio	Lower	Upper	
240	100		
120	13.9	14.8	22.2
236	28.4	23.3	34.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#31

Terphenyl-d14

Concen: 0.666 ng

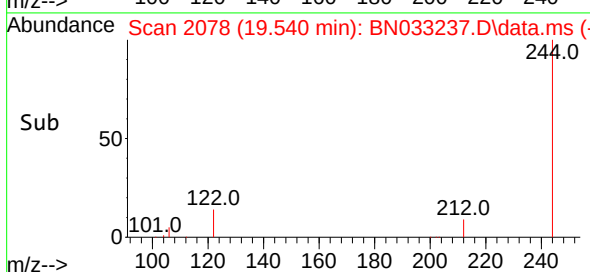
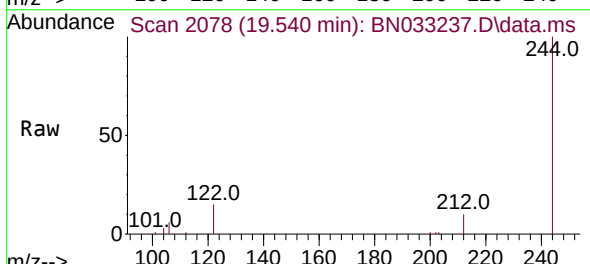
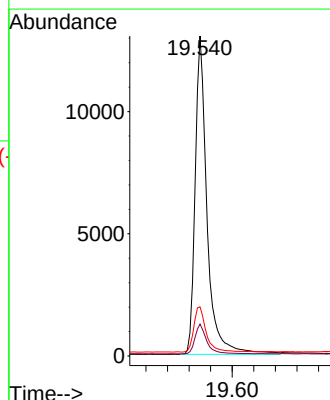
RT: 19.540 min Scan# 2078

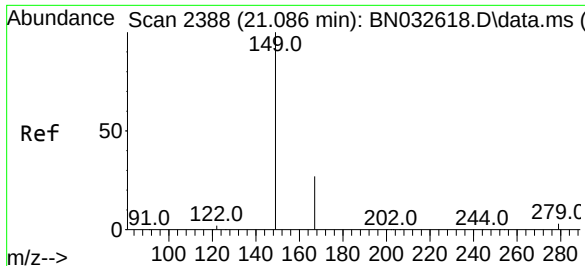
Delta R.T. -0.023 min

Lab File: BN033237.D

Acq: 03 Aug 2024 14:00

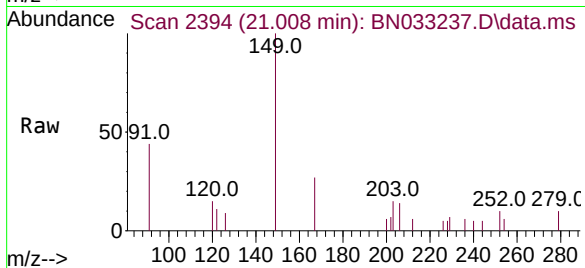
Tgt Ion:	244	Resp:	19950
Ion Ratio	Lower	Upper	
244	100		
212	9.9	7.5	11.3
122	15.4	12.6	19.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.131 ng
RT: 21.008 min Scan# 2100
Delta R.T. 0.000 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

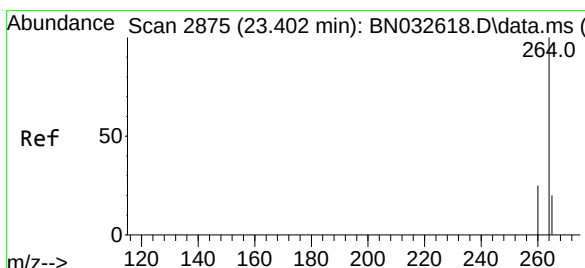
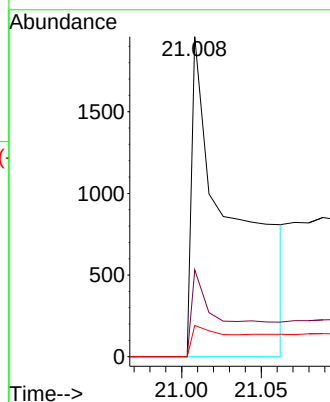
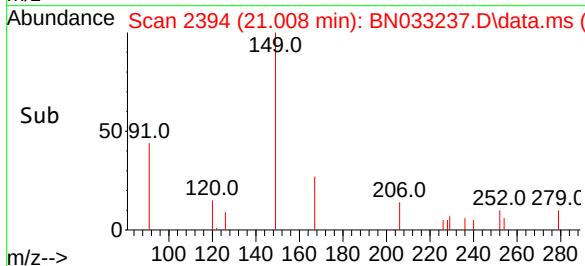
Instrument :
BNA_N
ClientSampleId :
927-K1-WS-073124-FDRE



Tgt Ion:149 Resp: 335
Ion Ratio Lower Upper
149 100
167 26.4 21.4 32.2
279 8.0 2.8 4.2

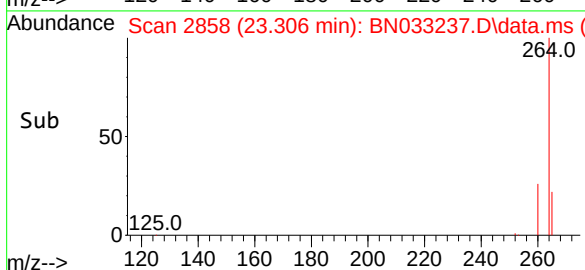
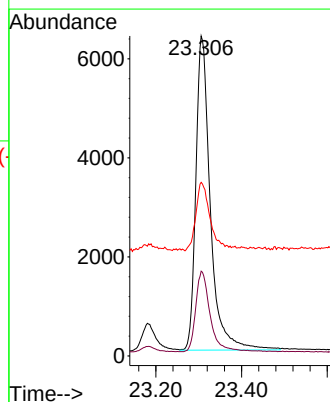
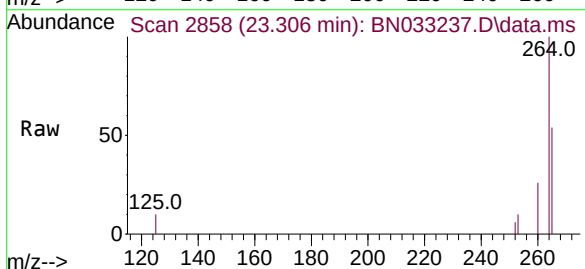
Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.306 min Scan# 2858
Delta R.T. -0.009 min
Lab File: BN033237.D
Acq: 03 Aug 2024 14:00

Tgt Ion:264 Resp: 14874
Ion Ratio Lower Upper
264 100
260 26.5 20.9 31.3
265 54.2 85.4 128.2





CALIBRATION SUMMARY

- 1
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- 15
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- 17

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 10 23:45:48 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN032616.D 0.2 =BN032617.D 0.4 =BN032618.D 0.8 =BN032619.D 1.6 =BN032620.D 3.2 =BN032621.D 5.0 =BN032622.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	0.613	0.525	0.495	0.515	0.476	0.434	0.411	0.496	13.37
3)	n-Nitrosodimet...	0.451	0.408	0.421	0.441	0.428	0.400	0.383	0.419	5.66
4) S	2-Fluorophenol	1.089	0.979	1.038	1.043	1.009	0.974	0.950	1.012	4.79
5) S	Phenol-d6	1.214	1.102	1.258	1.297	1.331	1.282	1.308	1.256	6.20
6)	bis(2-Chloroet...	0.977	0.841	1.059	1.258	1.054	1.062	1.099	1.050	11.98
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.268	0.271	0.291	0.331	0.328	0.310	0.309	0.301	8.50
9)	Naphthalene	1.116	1.074	1.103	1.173	1.147	1.071	1.069	1.108	3.66
10)	Hexachlorobuta...	0.228	0.216	0.214	0.222	0.212	0.197	0.193	0.212	5.95
11) SURR2	Methylnaphth...	0.594	0.576	0.597	0.657	0.650	0.596	0.613	0.612	4.99
12)	2-Methylnaphth...	0.677	0.665	0.697	0.784	0.785	0.720	0.738	0.724	6.64
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.168	0.150	0.153	0.174	0.183	0.173	0.196	0.171	9.39
15) S	2-Fluorobiphenyl	1.471	1.388	1.485	1.608	1.547	1.475	1.448	1.489	4.74
16)	Acenaphthylene	1.493	1.457	1.495	1.715	1.765	1.718	1.747	1.627	8.46
17)	Acenaphthene	1.117	1.088	1.142	1.251	1.212	1.134	1.126	1.153	4.97
18)	Fluorene	1.504	1.473	1.523	1.674	1.635	1.470	1.507	1.541	5.23
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.028	0.034	0.053	0.065	0.071	0.086	0.056		39.53
21)	4-Bromophenyl-...	0.235	0.219	0.231	0.245	0.244	0.237	0.234	0.235	3.79
22)	Hexachlorobenzene	0.270	0.254	0.258	0.277	0.272	0.262	0.249	0.263	3.92
23)	Atrazine	0.164	0.156	0.155	0.182	0.188	0.177	0.191	0.173	8.64
24)	Pentachlorophenol	0.113	0.080	0.081	0.093	0.100	0.103	0.115	0.098	14.14
25)	Phenanthrene	1.036	0.986	1.058	1.197	1.172	1.108	1.095	1.093	6.79
26)	Anthracene	0.760	0.742	0.789	0.963	1.024	1.001	1.019	0.900	14.38
27) SURR	Fluoranthene-d10	1.009	0.987	0.986	1.101	1.097	1.018	1.047	1.035	4.69
28)	Fluoranthene	1.263	1.235	1.250	1.418	1.430	1.316	1.346	1.323	6.01
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.719	1.569	1.692	1.772	1.676	1.506	1.503	1.634	6.58
31) S	Terphenyl-d14	0.861	0.794	0.846	0.886	0.841	0.744	0.767	0.820	6.37
32)	Benzo(a)anthra...	1.224	1.077	1.198	1.352	1.336	1.313	1.354	1.265	8.18
33)	Chrysene	1.490	1.507	1.549	1.597	1.576	1.397	1.410	1.504	5.17
34)	Bis(2-ethylhex...	0.701	0.684	0.604	0.695	0.711	0.703	0.803	0.700	8.28
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN071124.M

36)	Indeno(1,2,3-c...	1.547	1.410	1.534	1.674	1.629	1.704	1.539	1.577	6.37
37)	Benzo(b)fluora...	1.190	1.195	1.313	1.544	1.566	1.434	1.510	1.393	11.54
38)	Benzo(k)fluora...	1.502	1.528	1.587	1.770	1.684	1.561	1.514	1.592	6.25
39) C	Benzo(a)pyrene	1.200	1.142	1.203	1.362	1.344	1.272	1.272	1.256	6.37
40)	Dibenzo(a,h)an...	1.180	1.116	1.215	1.323	1.294	1.362	1.228	1.245	6.90
41)	Benzo(g,h,i)pe...	1.374	1.288	1.378	1.459	1.394	1.470	1.293	1.379	5.17

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032616.D
Acq On : 10 Jul 2024 15:54
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:37:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	3647	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	10629	0.400	ng	0.00
13) Acenaphthene-d10	14.221	164	7010	0.400	ng	0.01
19) Phenanthrene-d10	16.991	188	14894	0.400	ng	0.01
29) Chrysene-d12	21.202	240	11292	0.400	ng	0.00
35) Perylene-d12	23.405	264	11367	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	993	0.108	ng	0.00
5) Phenol-d6	6.808	99	1107	0.097	ng	0.01
8) Nitrobenzene-d5	8.788	82	711	0.089	ng	0.01
11) 2-Methylnaphthalene-d10	11.975	152	1578	0.097	ng	0.01
14) 2,4,6-Tribromophenol	15.750	330	295	0.098	ng	0.01
15) 2-Fluorobiphenyl	12.852	172	2578	0.099	ng	0.00
27) Fluoranthene-d10	19.026	212	3757	0.097	ng	0.00
31) Terphenyl-d14	19.630	244	2431	0.105	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	559	0.124	ng	# 89
3) n-Nitrosodimethylamine	3.472	42	411	0.108	ng	# 98
6) bis(2-Chloroethyl)ether	7.025	93	891	0.093	ng	93
9) Naphthalene	10.400	128	2965	0.101	ng	# 87
10) Hexachlorobutadiene	10.645	225	605	0.108	ng	# 100
12) 2-Methylnaphthalene	12.051	142	1800	0.094	ng	# 90
16) Acenaphthylene	13.943	152	2617	0.092	ng	99
17) Acenaphthene	14.285	154	1957	0.097	ng	98
18) Fluorene	15.290	166	2636	0.098	ng	100
21) 4-Bromophenyl-phenylether	16.185	248	876	0.100	ng	93
22) Hexachlorobenzene	16.284	284	1007	0.103	ng	97
23) Atrazine	16.470	200	610	0.095	ng	# 88
24) Pentachlorophenol	16.669	266	420	0.115	ng	95
25) Phenanthrene	17.029	178	3858	0.095	ng	100
26) Anthracene	17.128	178	2830	0.084	ng	98
28) Fluoranthene	19.059	202	4704	0.096	ng	99
30) Pyrene	19.426	202	4853	0.105	ng	99
32) Benzo(a)anthracene	21.193	228	3454	0.097	ng	94
33) Chrysene	21.238	228	4205	0.099	ng	96
34) Bis(2-ethylhexyl)phtha...	21.086	149	1979	0.100	ng	99
36) Indeno(1,2,3-cd)pyrene	25.645	276	4395	0.098	ng	94
37) Benzo(b)fluoranthene	22.750	252	3381	0.085	ng	# 51
38) Benzo(k)fluoranthene	22.794	252	4269m	0.093	ng	
39) Benzo(a)pyrene	23.320	252	3411	0.096	ng	# 38
40) Dibenzo(a,h)anthracene	25.654	278	3352	0.095	ng	# 64
41) Benzo(g,h,i)perylene	26.323	276	3904	0.100	ng	# 82

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032616.D
Acq On : 10 Jul 2024 15:54
Operator : MA/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

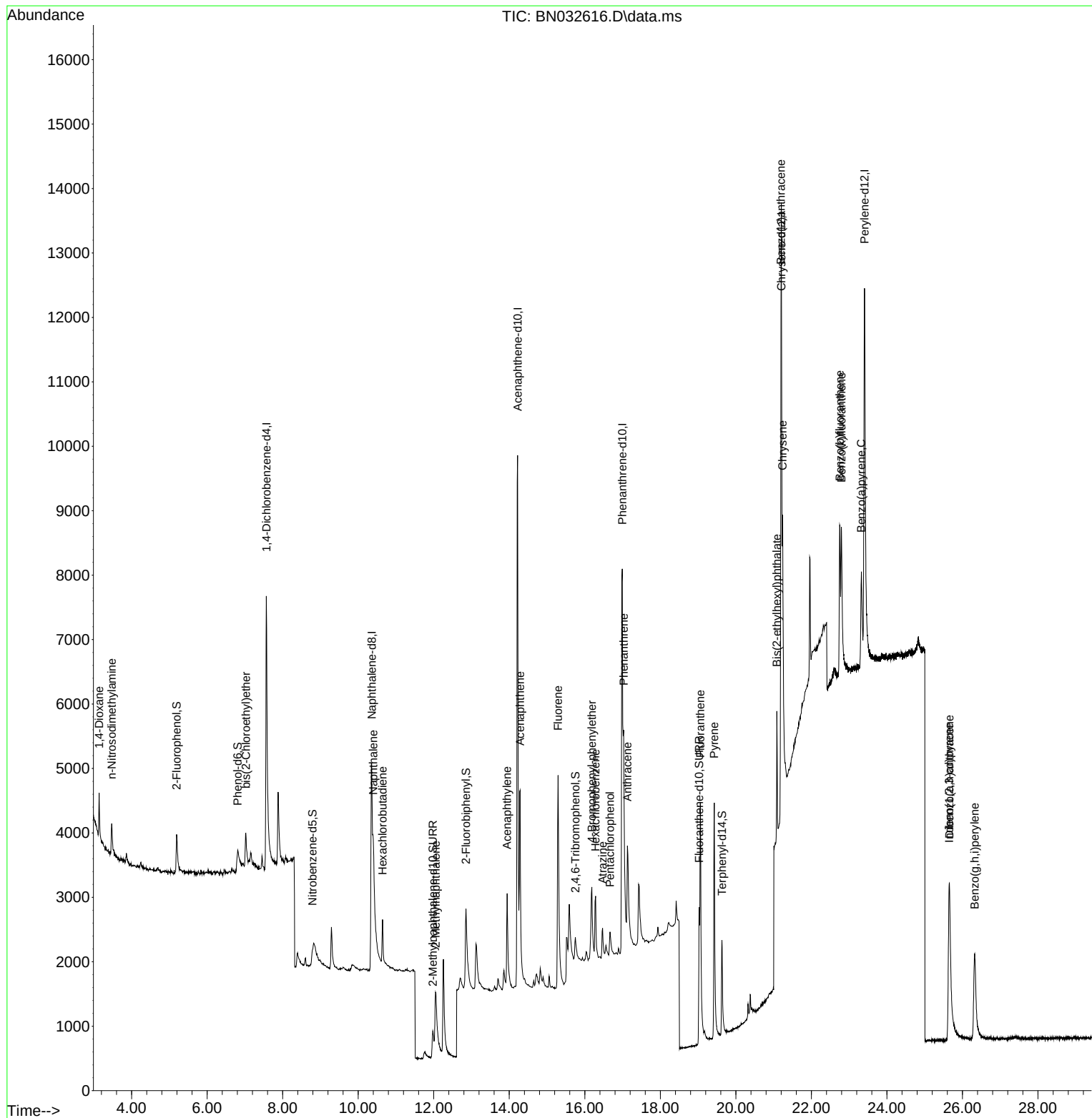
Manual Integrations

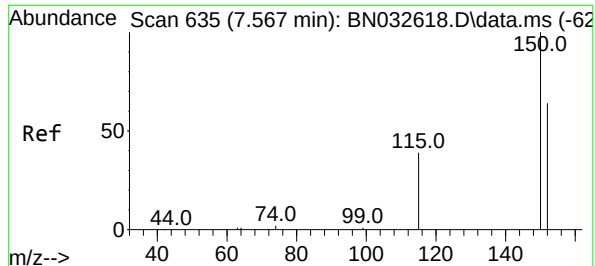
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

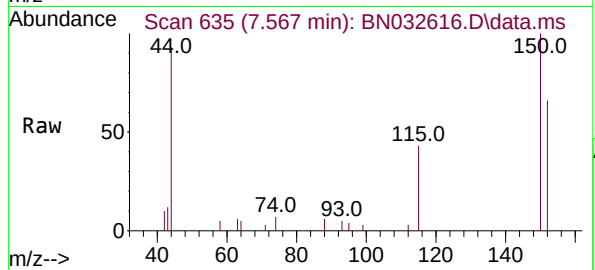
Quant Time: Jul 10 23:37:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

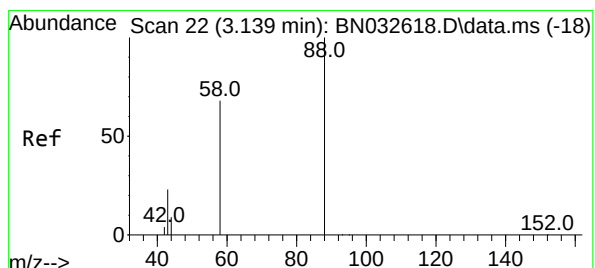
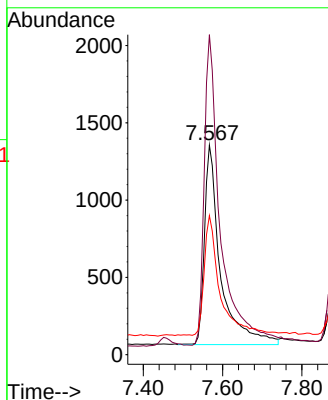
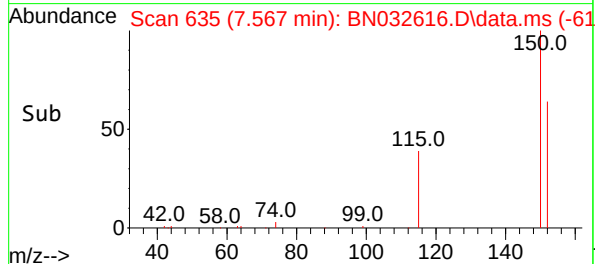
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 364
Ion Ratio Lower Upper
152 100
150 152.7 123.8 185.6
115 66.4 52.8 79.2

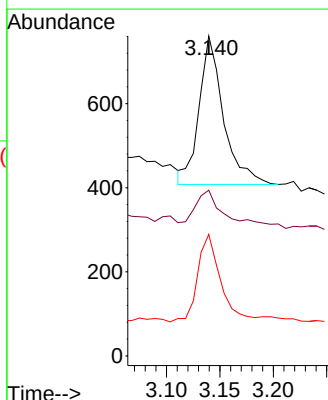
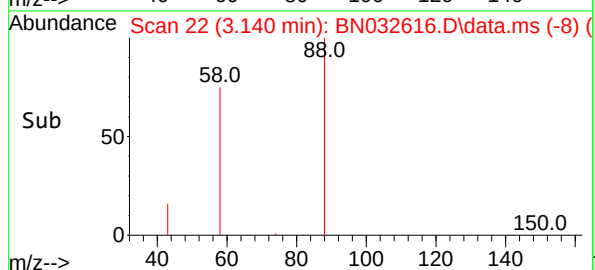
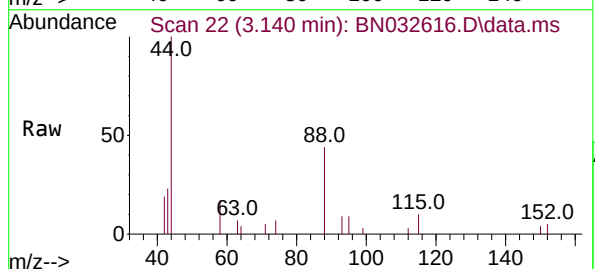
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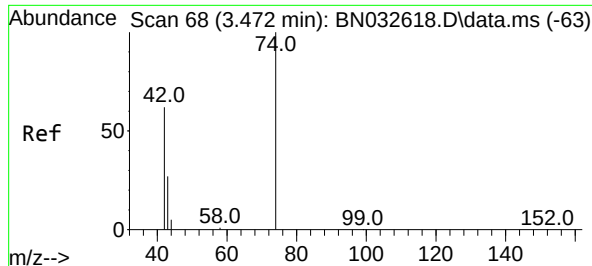
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.124 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

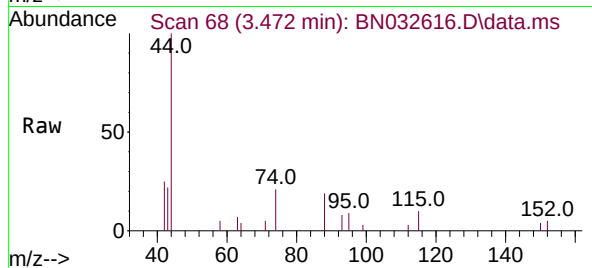
Tgt Ion: 88 Resp: 559
Ion Ratio Lower Upper
88 100
43 33.1 18.4 27.6#
58 55.5 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.108 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

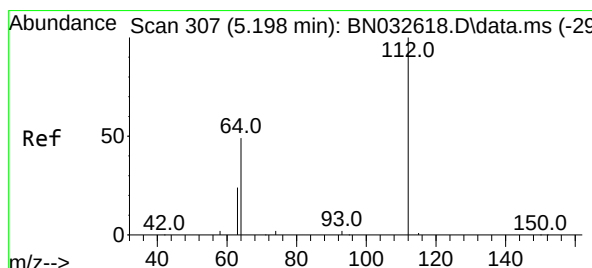
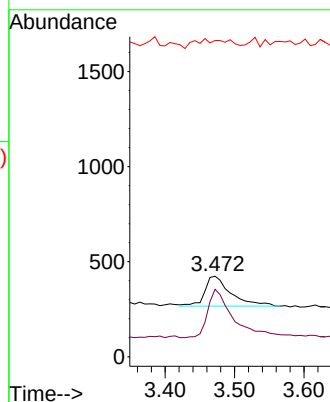
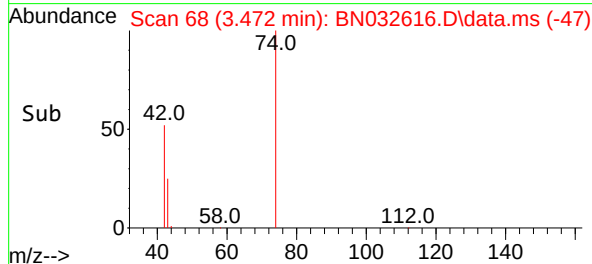
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 42 Resp: 41
Ion Ratio Lower Upper
42 100
74 160.3 126.9 190.3
44 0.0 4.8 7.2

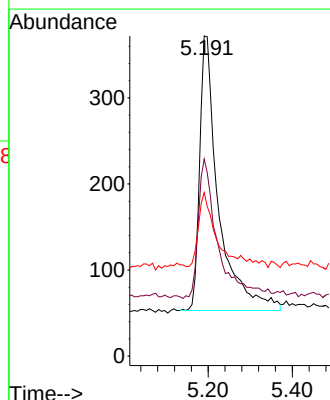
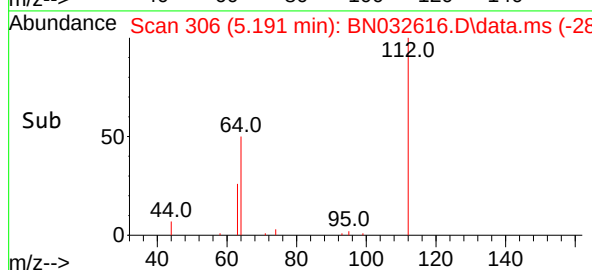
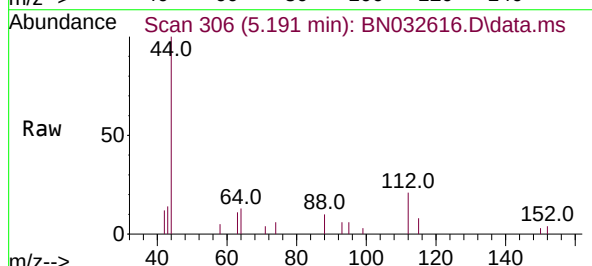
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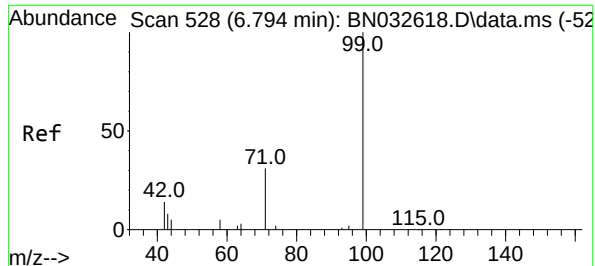
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.191 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:112 Resp: 993
Ion Ratio Lower Upper
112 100
64 53.3 40.2 60.4
63 27.8 22.2 33.4





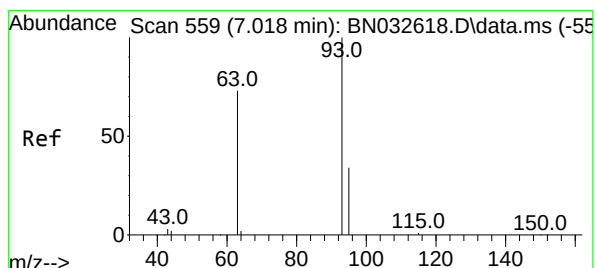
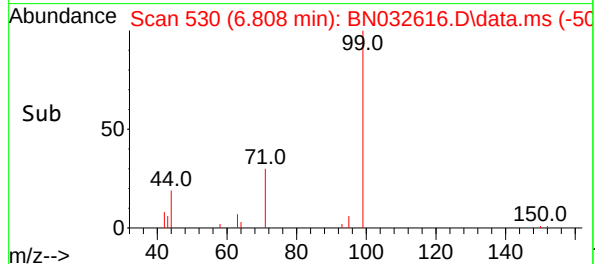
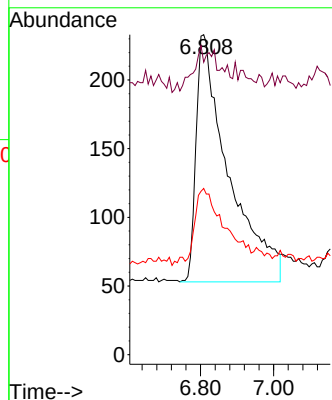
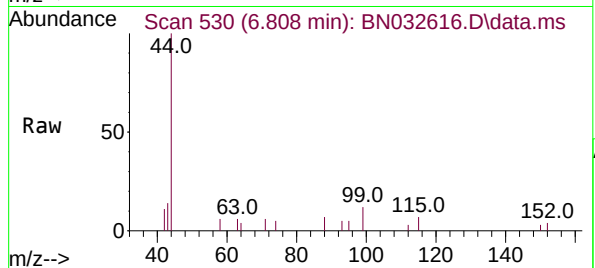
#5
Phenol-d6
Concen: 0.097 ng
RT: 6.808 min Scan# 510
Delta R.T. 0.015 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 110
Ion Ratio Lower Upper
99 100
42 5.5 10.5 15.7
71 26.0 22.3 33.5

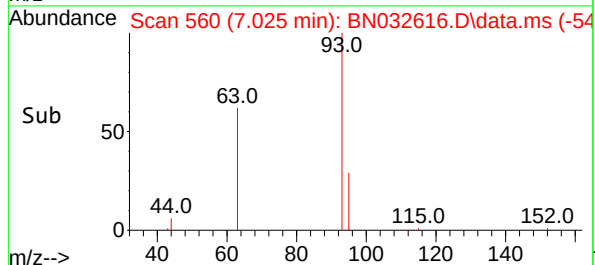
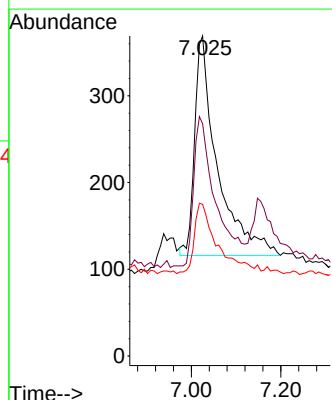
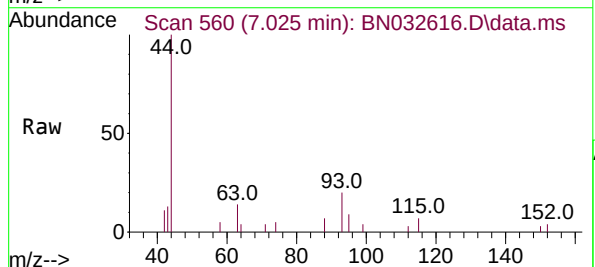
Manual Integrations
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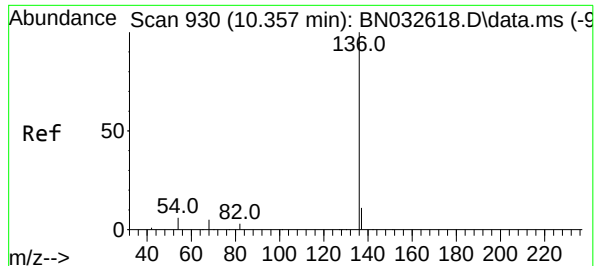
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.093 ng
RT: 7.025 min Scan# 560
Delta R.T. 0.007 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

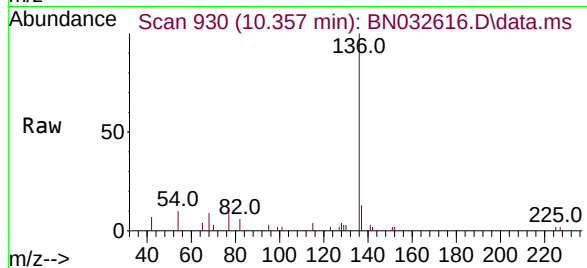
Tgt Ion: 93 Resp: 891
Ion Ratio Lower Upper
93 100
63 65.3 46.4 69.6
95 33.6 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

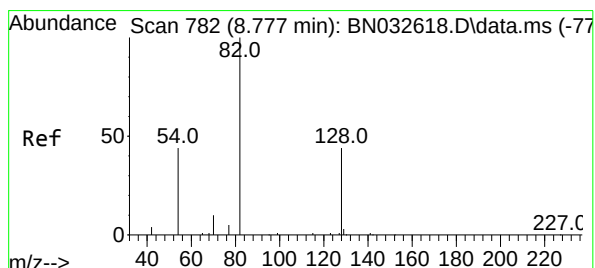
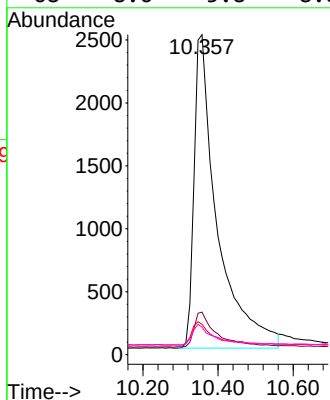
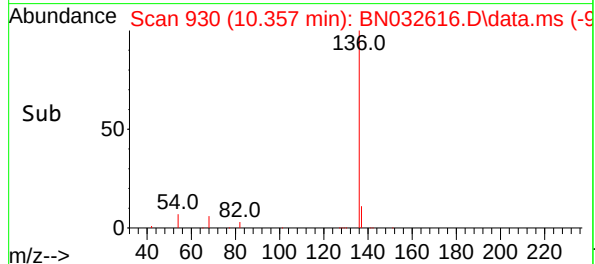
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 10629
Ion Ratio Lower Upper
136 100
137 13.3 9.9 14.9
54 9.5 6.5 9.7
68 8.6 5.8 8.8

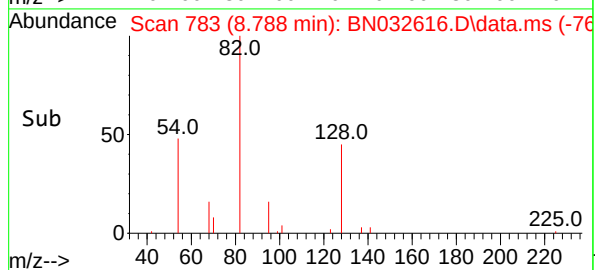
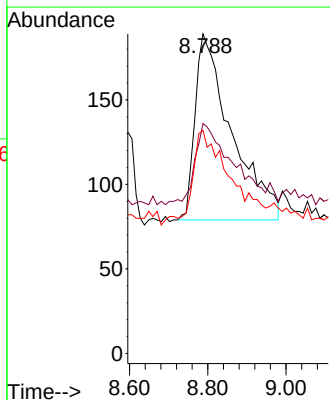
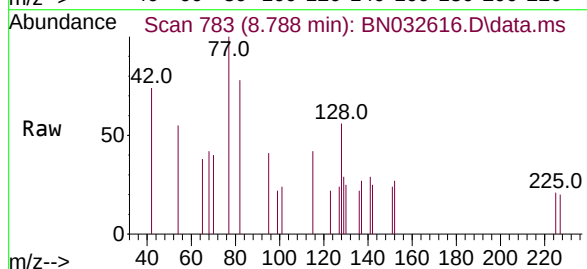
Manual Integrations
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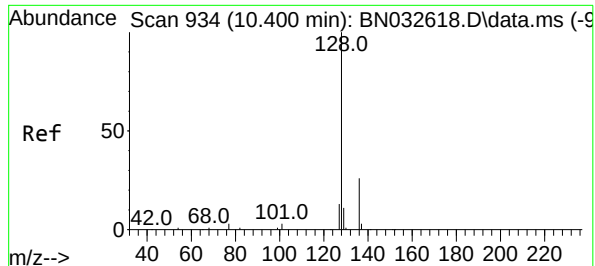
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.089 ng
RT: 8.788 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion: 82 Resp: 711
Ion Ratio Lower Upper
82 100
128 72.0 41.7 62.5#
54 69.8 39.5 59.3#





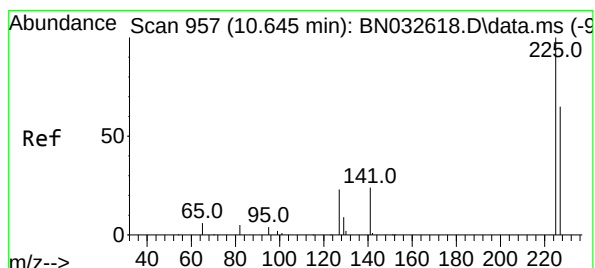
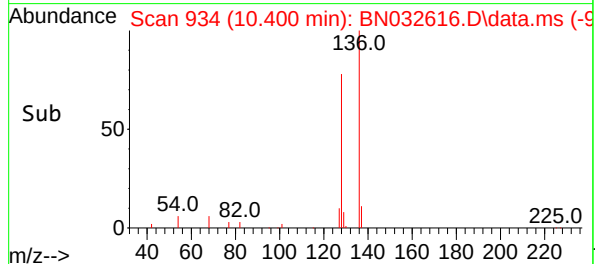
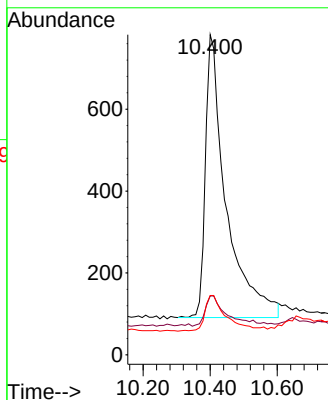
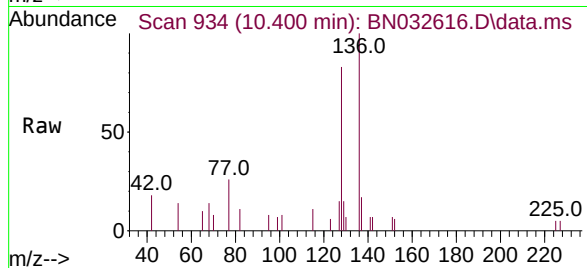
#9
Naphthalene
Concen: 0.101 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 296
Ion Ratio Lower Upper
128 100
129 18.4 9.8 14.8
127 18.5 11.5 17.3

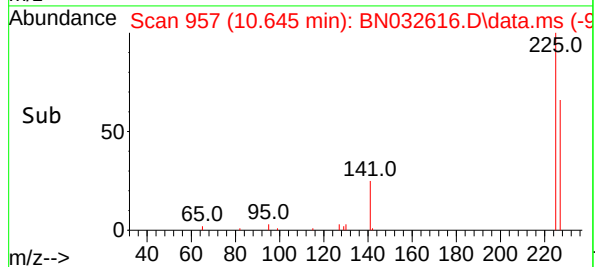
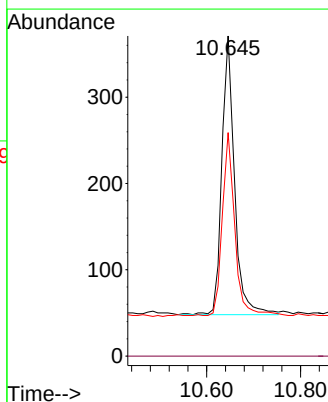
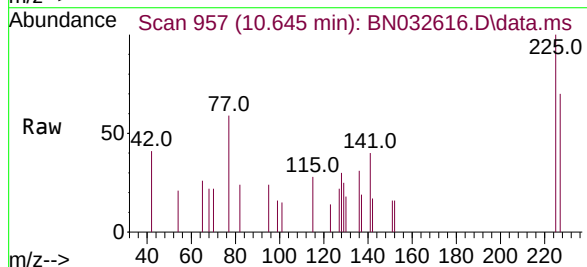
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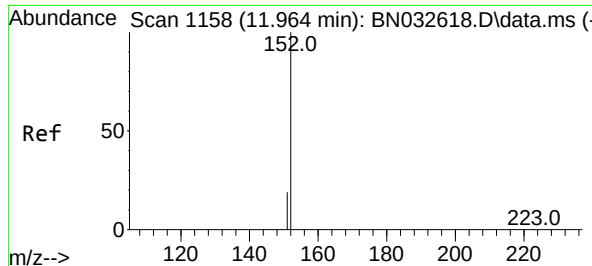
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.108 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

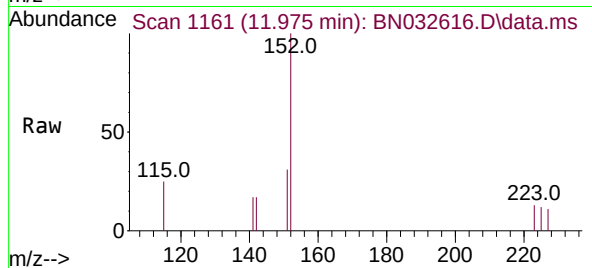
Tgt Ion:225 Resp: 605
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 11.975 min Scan# 1158
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

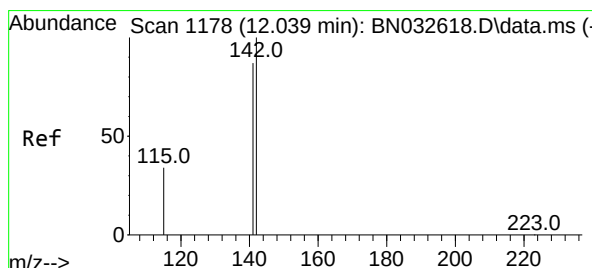
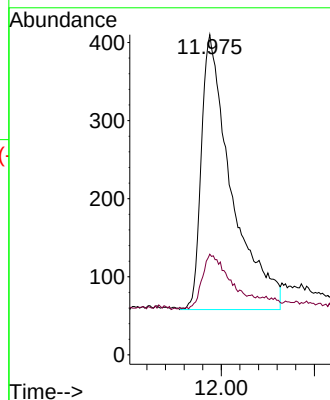
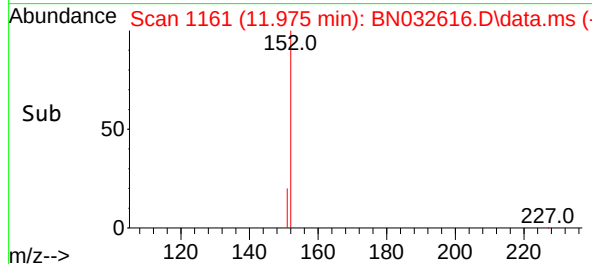
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



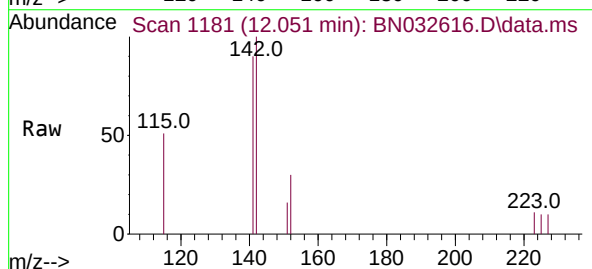
Tgt Ion:152 Resp: 1578
Ion Ratio Lower Upper
152 100
151 17.7 16.2 24.2

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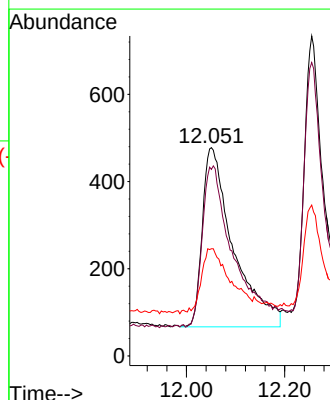
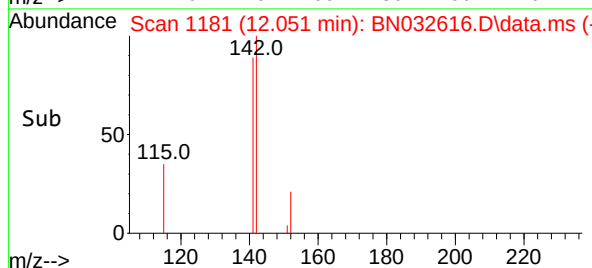
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

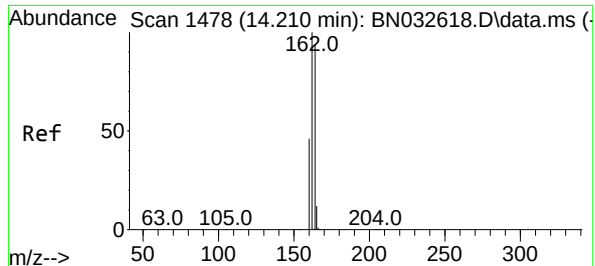


#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.051 min Scan# 1181
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



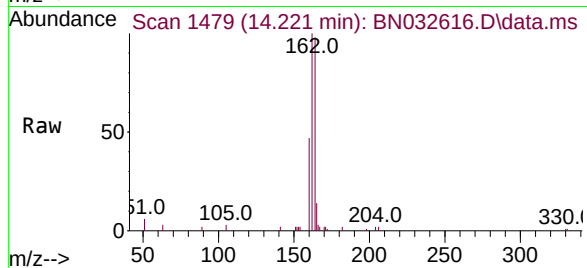
Tgt Ion:142 Resp: 1800
Ion Ratio Lower Upper
142 100
141 89.5 69.3 103.9
115 51.5 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.221 min Scan# 1478
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

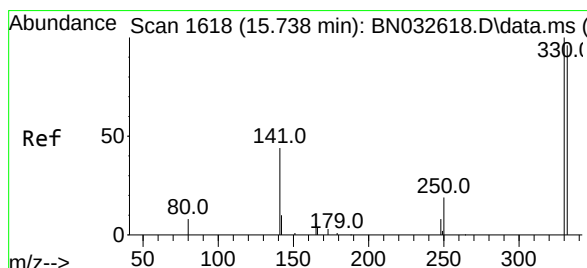
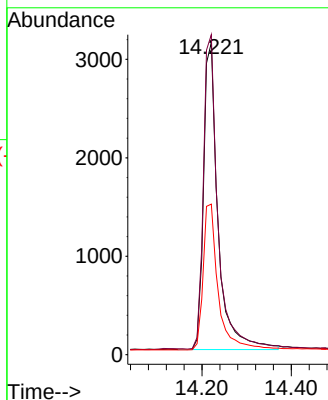
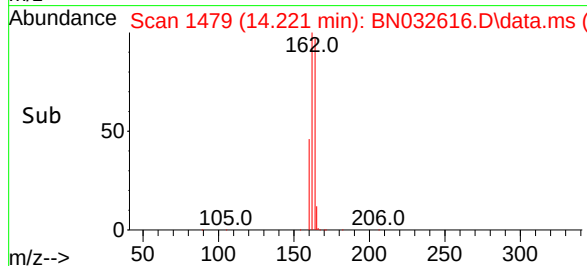
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



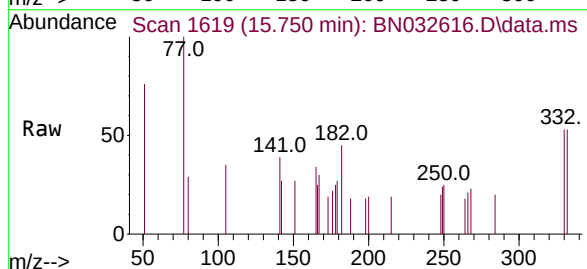
Tgt Ion:164 Resp: 7010
Ion Ratio Lower Upper
164 100
162 102.6 85.0 127.4
160 48.3 39.4 59.2

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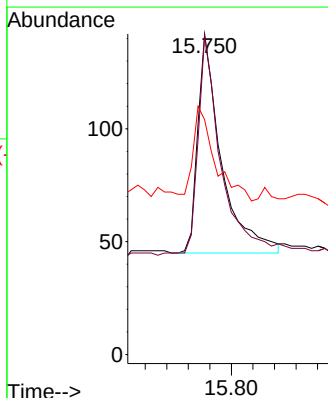
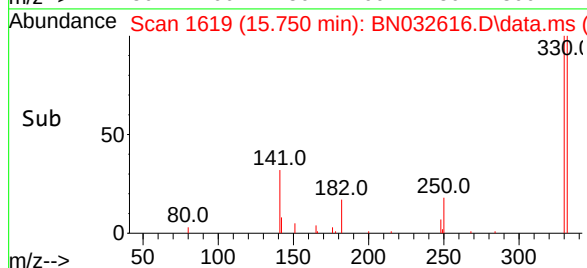
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

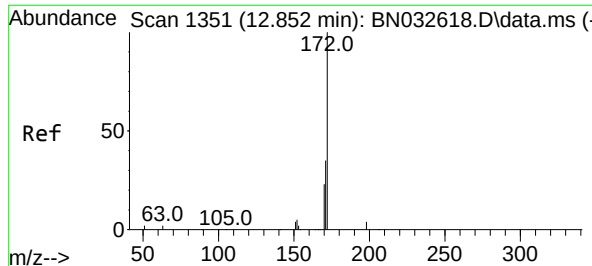


#14
2,4,6-Tribromophenol
Concen: 0.098 ng
RT: 15.750 min Scan# 1619
Delta R.T. 0.013 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



Tgt Ion:330 Resp: 295
Ion Ratio Lower Upper
330 100
332 94.6 77.8 116.8
141 40.3 34.2 51.2





#15

2-Fluorobiphenyl

Concen: 0.099 ng

RT: 12.852 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

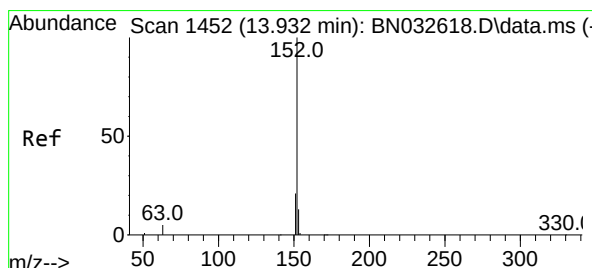
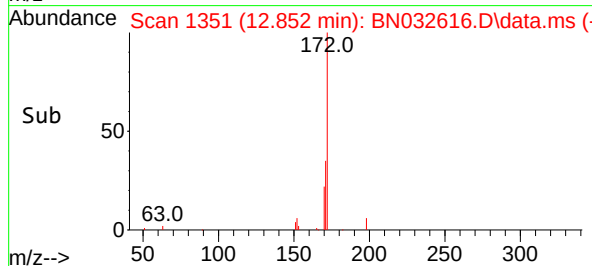
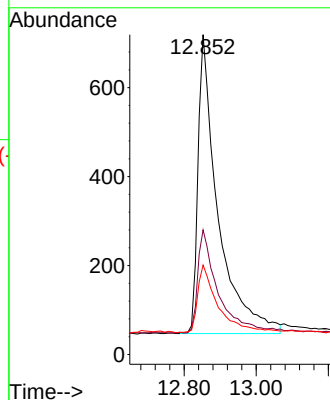
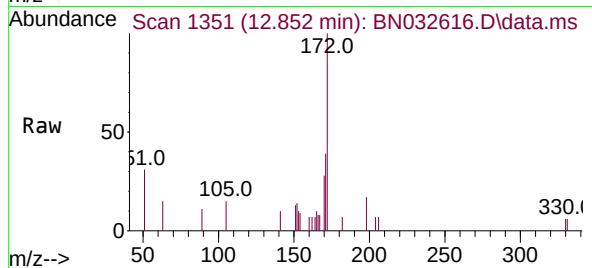
SSTDICC0.1

Tgt Ion:	172	Resp:	2578
Ion Ratio	Lower	Upper	
172	100		
171	38.9	28.6	43.0
170	28.0	19.0	28.6

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#16

Acenaphthylene

Concen: 0.092 ng

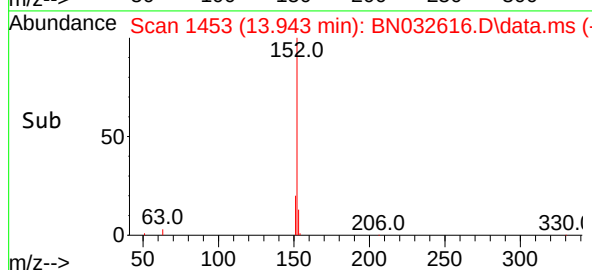
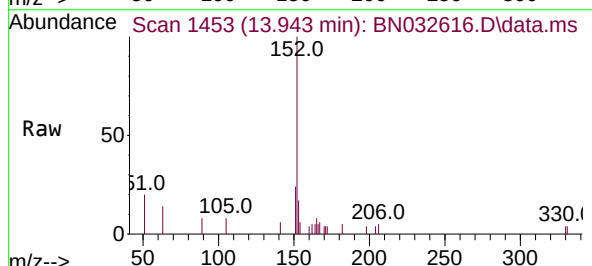
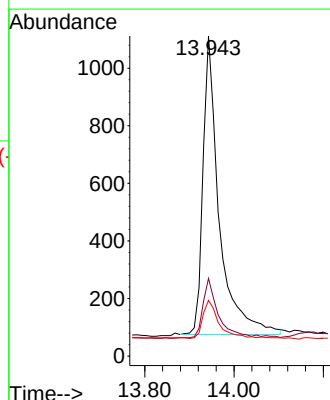
RT: 13.943 min Scan# 1453

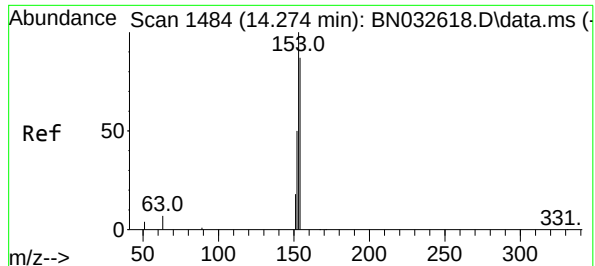
Delta R.T. 0.011 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

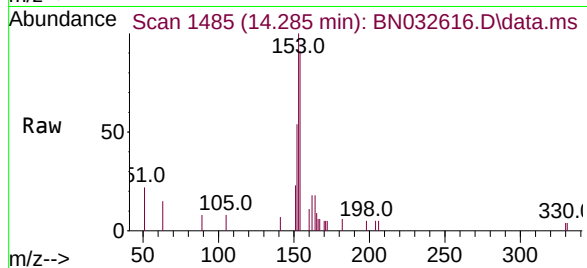
Tgt Ion:	152	Resp:	2617
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.0	24.0
153	13.0	10.6	15.8





#17
Acenaphthene
Concen: 0.097 ng
RT: 14.285 min Scan# 1485
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

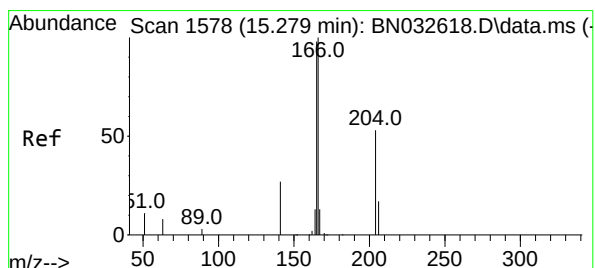
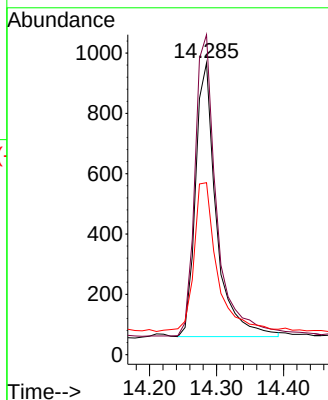
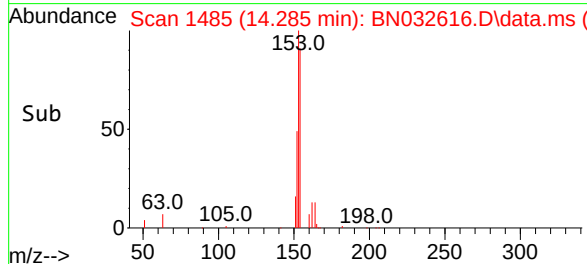
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



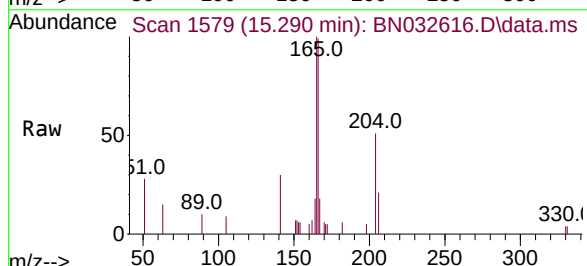
Tgt Ion:154 Resp: 195
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 60.3 45.2 67.8

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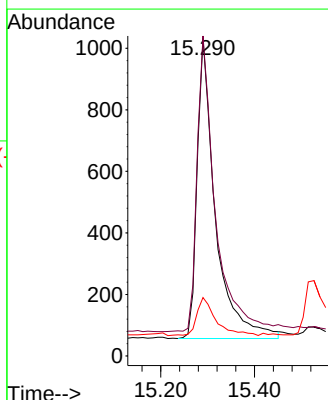
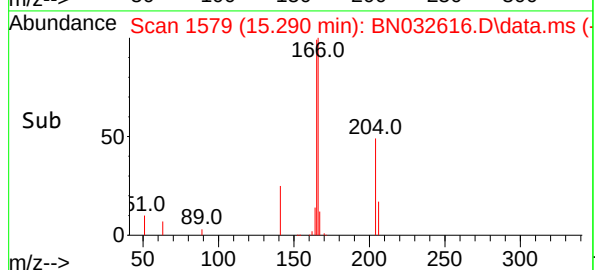
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

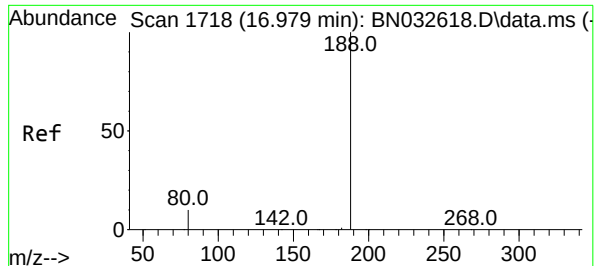


#18
Fluorene
Concen: 0.098 ng
RT: 15.290 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54



Tgt Ion:166 Resp: 2636
Ion Ratio Lower Upper
166 100
165 97.8 78.0 117.0
167 12.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.991 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

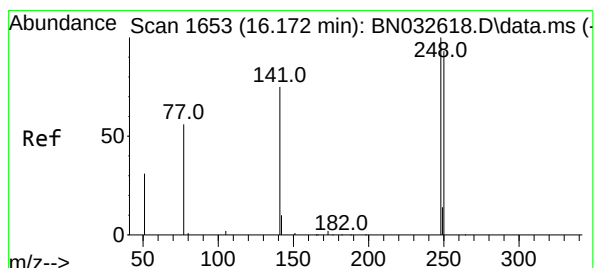
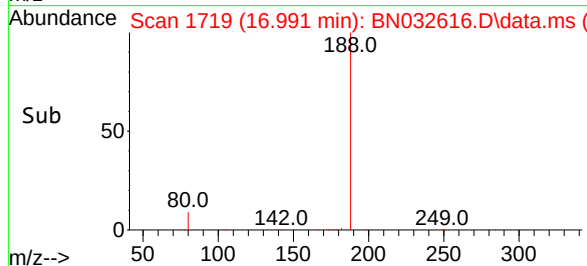
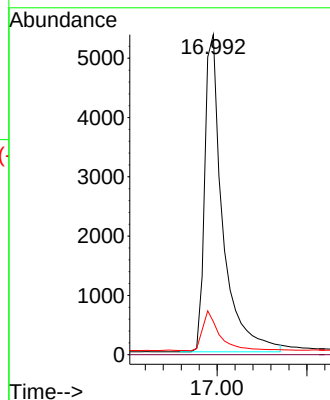
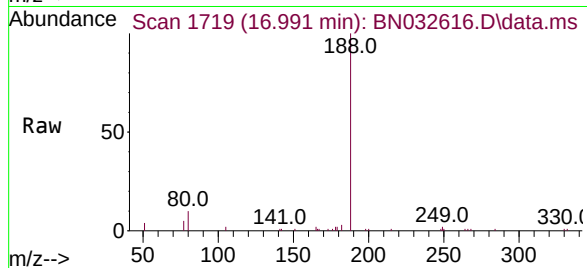
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.3	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#21

4-Bromophenyl-phenylether

Concen: 0.100 ng

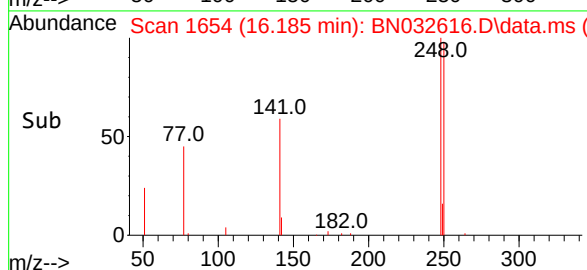
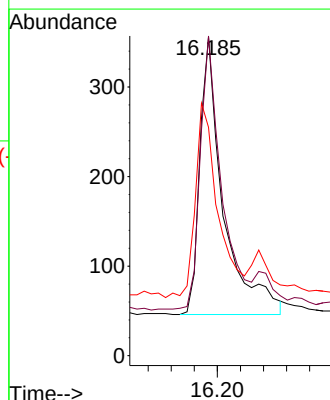
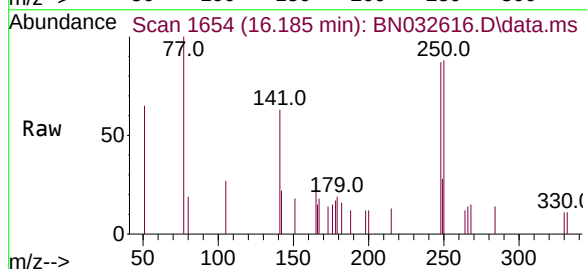
RT: 16.185 min Scan# 1654

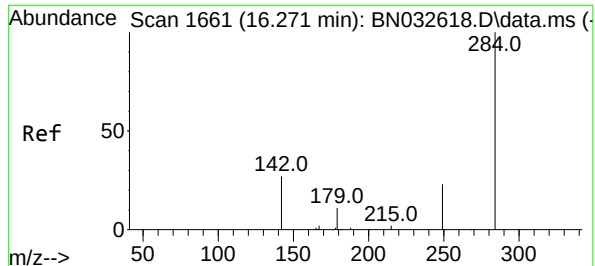
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.3	75.1	112.7
141	71.6	62.0	93.0





#22

Hexachlorobenzene

Concen: 0.103 ng

RT: 16.284 min Scan# 1662

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

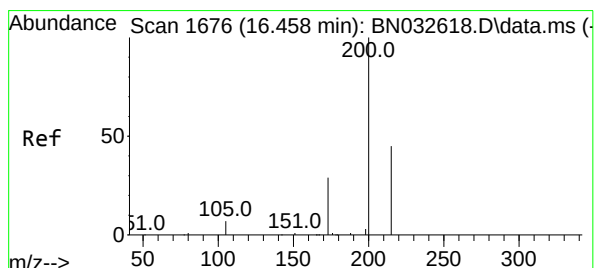
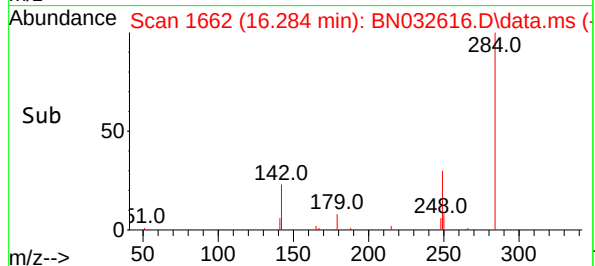
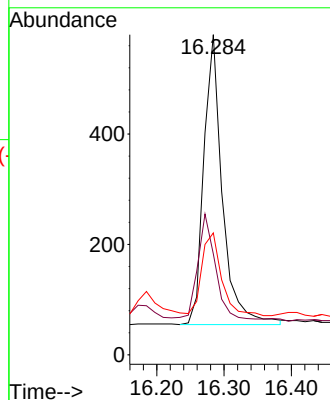
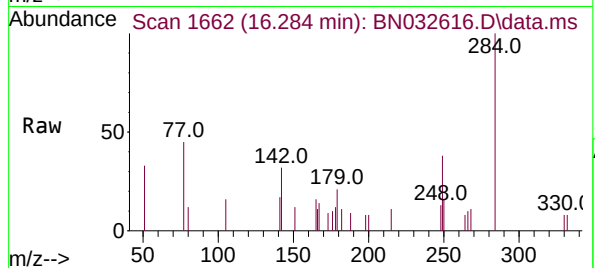
SSTDICC0.1

Tgt Ion:	284	Resp:	100
Ion Ratio	Lower	Upper	
284	100		
142	33.8	29.4	44.0
249	30.4	24.6	36.8

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#23

Atrazine

Concen: 0.095 ng

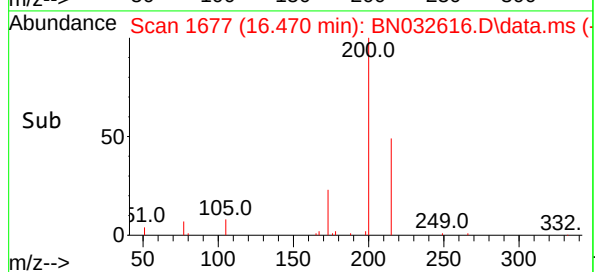
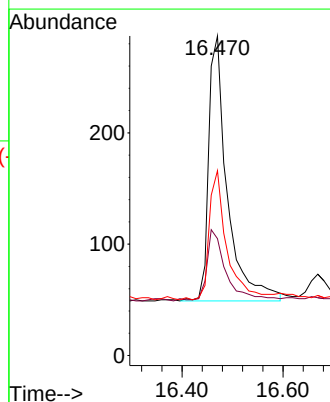
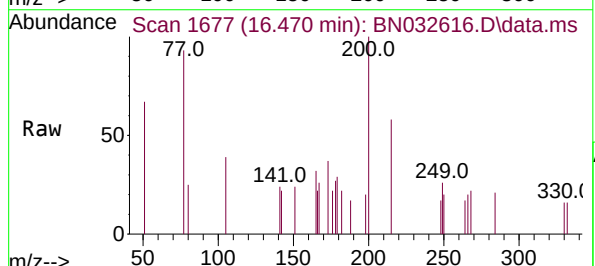
RT: 16.470 min Scan# 1677

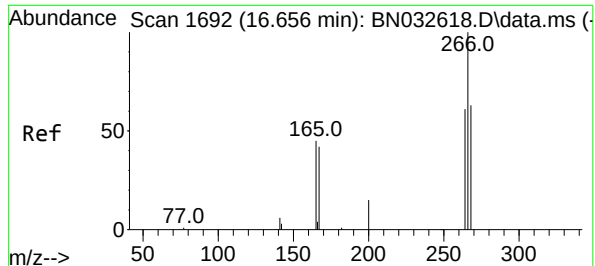
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:	200	Resp:	610
Ion Ratio	Lower	Upper	
200	100		
173	36.6	25.4	38.2
215	57.8	38.2	57.2





#24

Pentachlorophenol

Concen: 0.115 ng

RT: 16.669 min Scan# 1692

Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

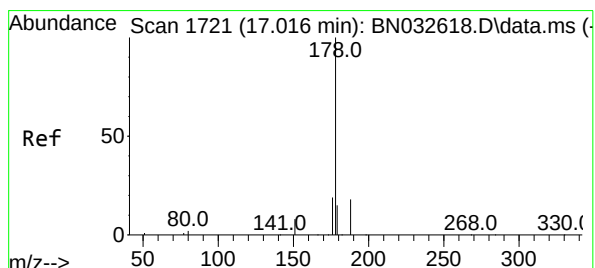
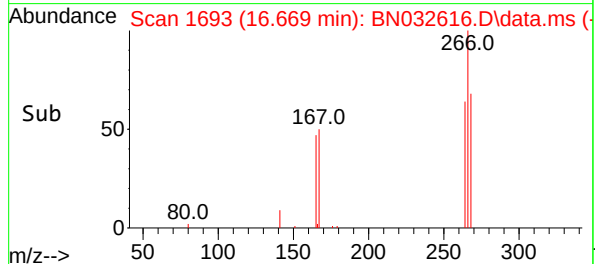
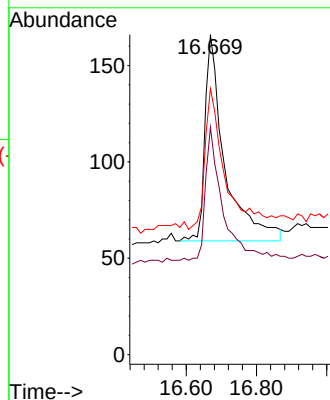
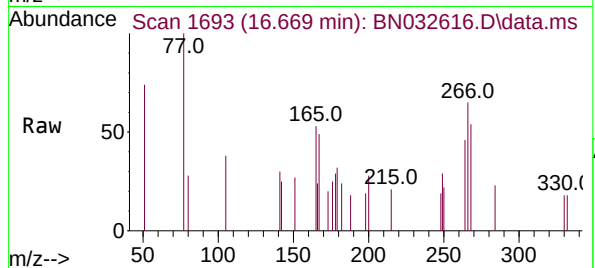
Tgt Ion:	266	Resp:	420
Ion Ratio	Lower	Upper	
266	100		
264	56.7	50.2	75.2
268	68.3	52.8	79.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#25

Phenanthrene

Concen: 0.095 ng

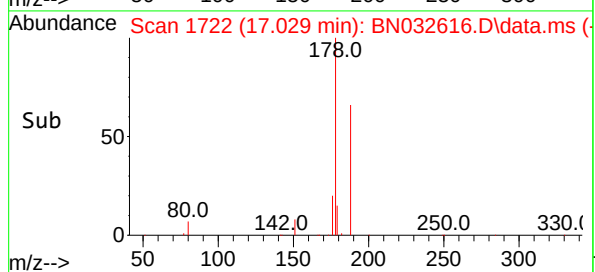
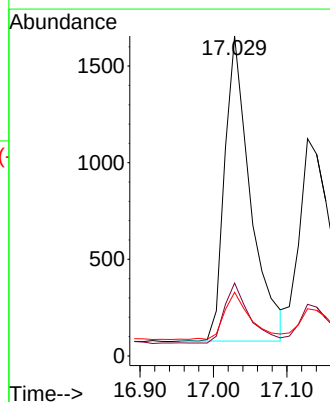
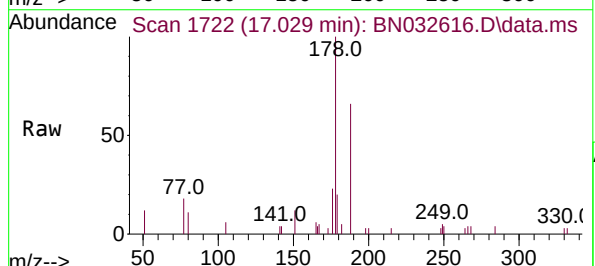
RT: 17.029 min Scan# 1722

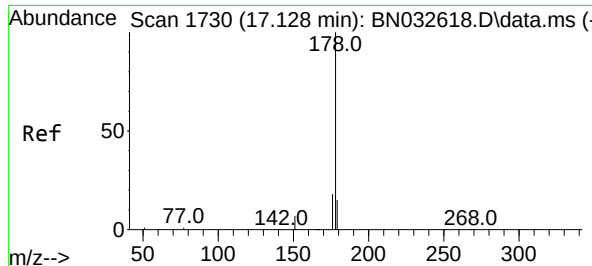
Delta R.T. 0.013 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:	178	Resp:	3858
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.1	22.7
179	15.4	12.2	18.4





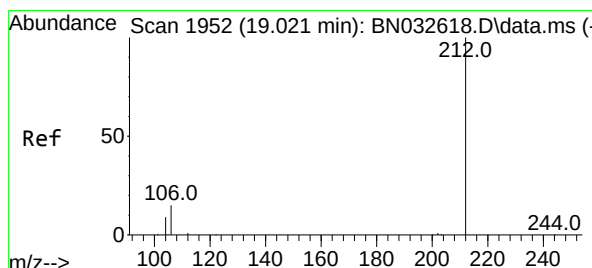
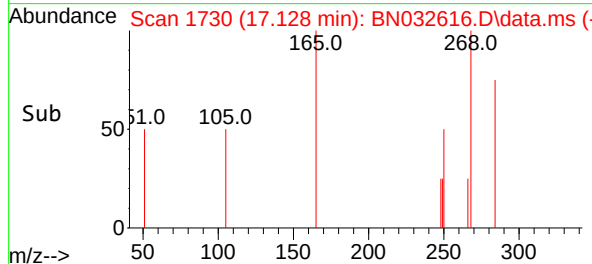
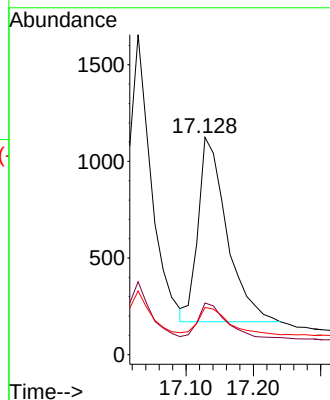
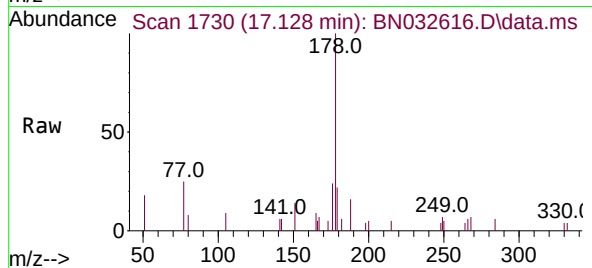
#26
Anthracene
Concen: 0.084 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 2830
Ion Ratio Lower Upper
178 100
176 17.8 14.8 22.2
179 15.5 11.8 17.8

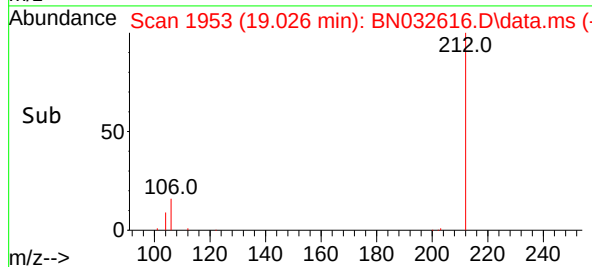
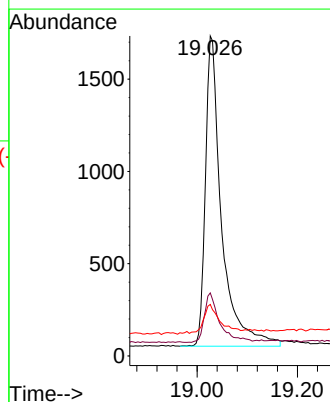
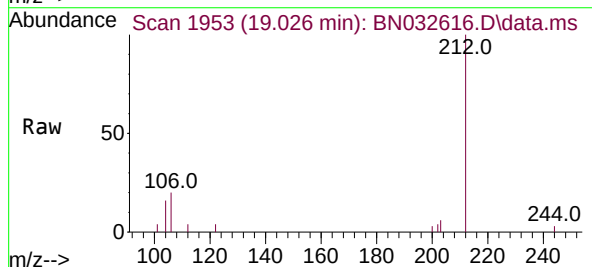
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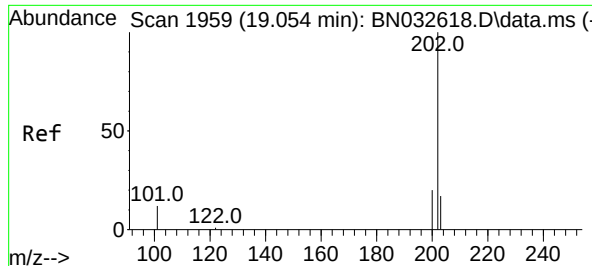
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.026 min Scan# 1953
Delta R.T. 0.005 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

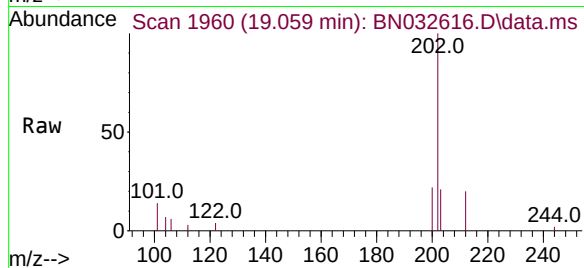
Tgt Ion:212 Resp: 3757
Ion Ratio Lower Upper
212 100
106 15.1 11.9 17.9
104 9.4 6.9 10.3





#28
Fluoranthene
Concen: 0.096 ng
RT: 19.059 min Scan# 1960
Delta R.T. 0.005 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

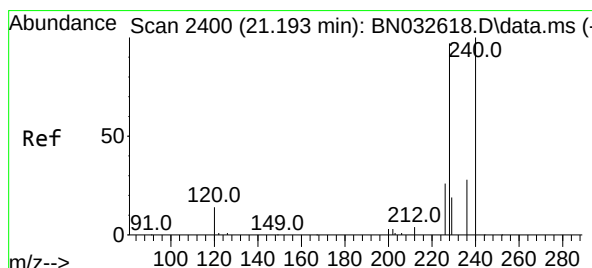
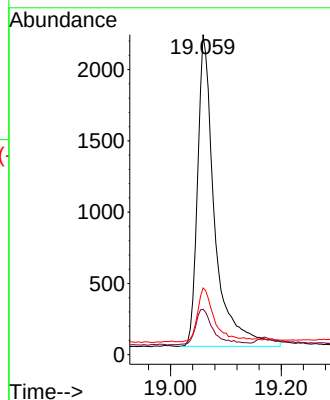
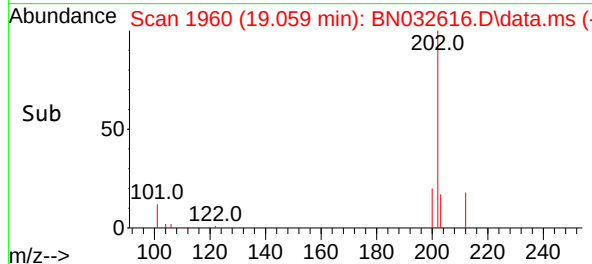
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 4704
Ion Ratio Lower Upper
202 100
101 11.9 9.6 14.4
203 17.7 13.8 20.6

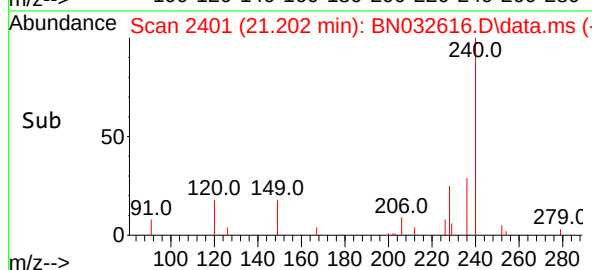
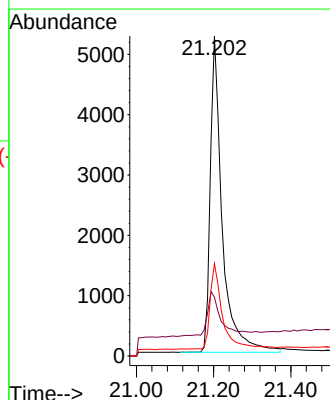
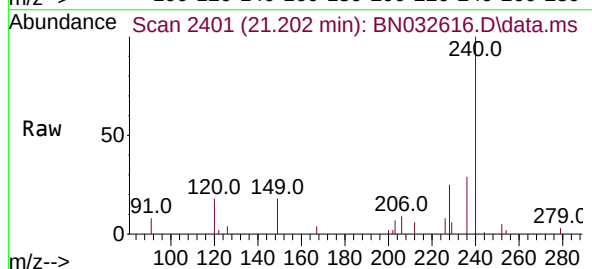
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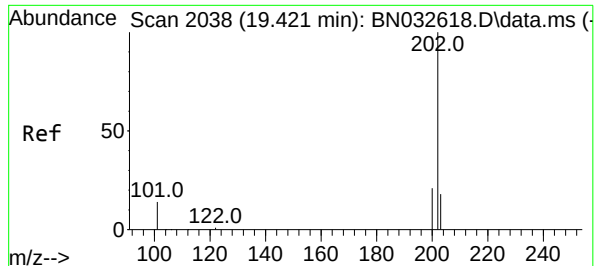
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.202 min Scan# 2401
Delta R.T. 0.009 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:240 Resp: 11292
Ion Ratio Lower Upper
240 100
120 18.4 14.8 22.2
236 28.9 23.3 34.9





#30

Pyrene

Concen: 0.105 ng

RT: 19.426 min Scan# 2038

Delta R.T. 0.005 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

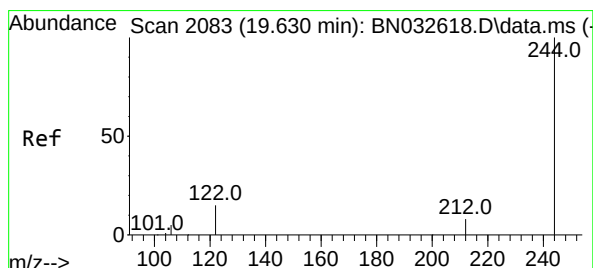
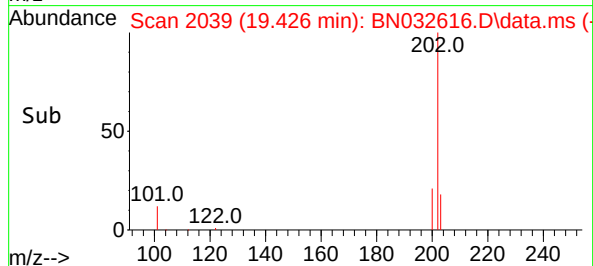
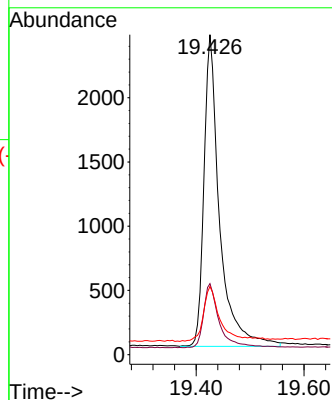
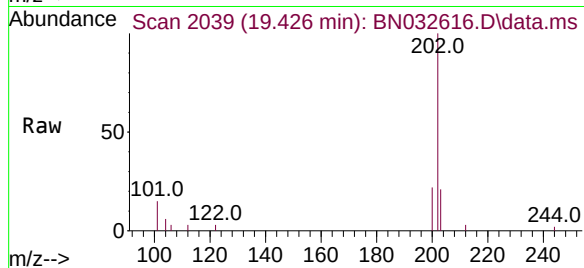
SSTDIC0.1

Tgt Ion:	202	Resp:	485
Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	19.6	14.8	22.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#31

Terphenyl-d14

Concen: 0.105 ng

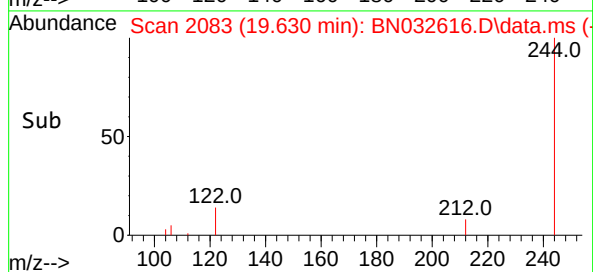
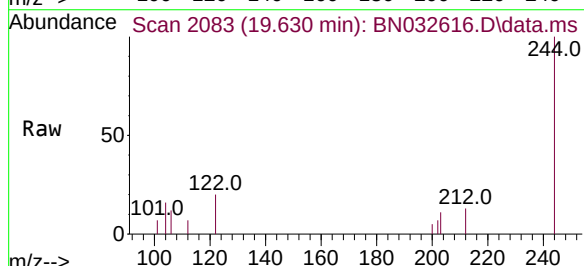
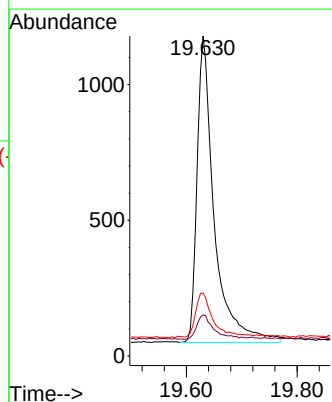
RT: 19.630 min Scan# 2083

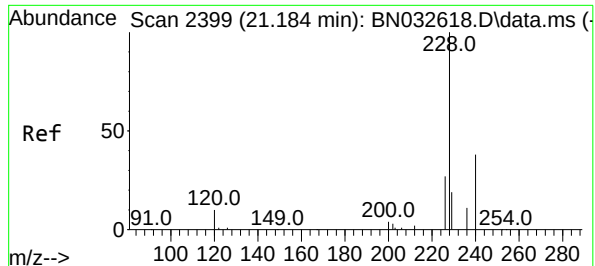
Delta R.T. 0.000 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

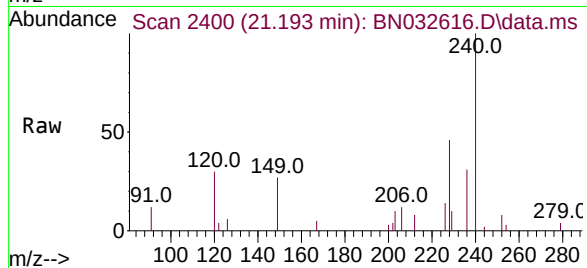
Tgt Ion:	244	Resp:	2431
Ion	Ratio	Lower	Upper
244	100		
212	12.9	7.5	11.3#
122	19.7	12.6	19.0#





#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.193 min Scan# 2400
Delta R.T. 0.009 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

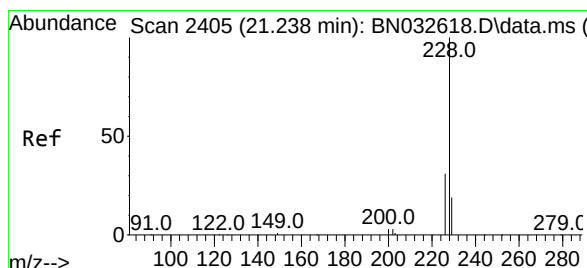
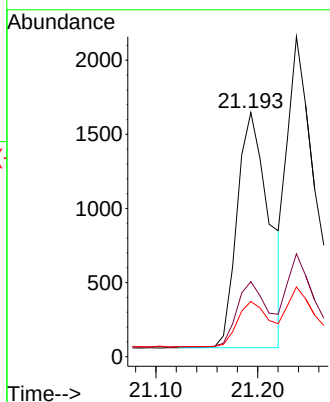
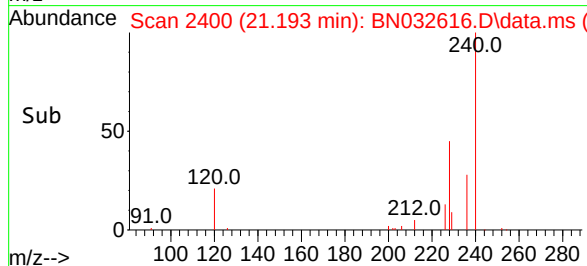
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 3454
Ion Ratio Lower Upper
228 100
226 30.7 21.8 32.6
229 22.6 16.0 24.0

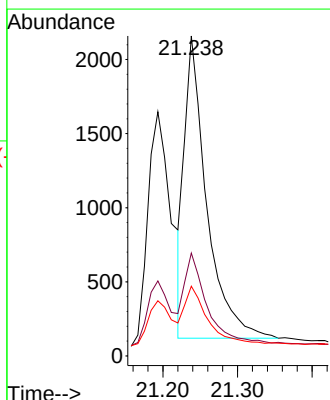
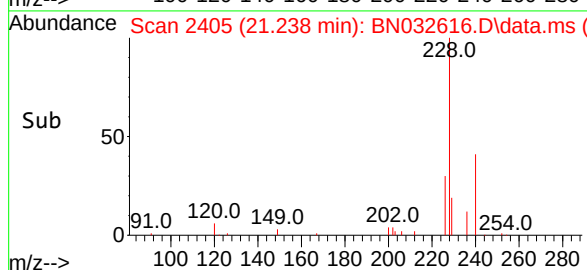
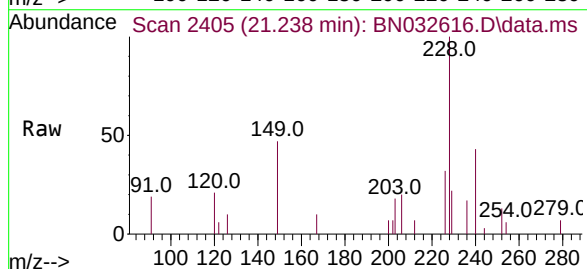
Manual Integrations
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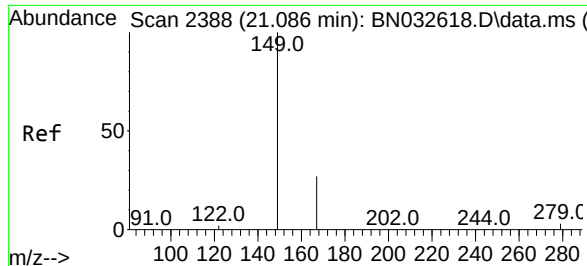
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#33
Chrysene
Concen: 0.099 ng
RT: 21.238 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

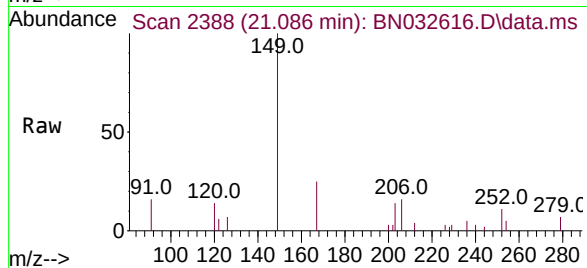
Tgt Ion:228 Resp: 4205
Ion Ratio Lower Upper
228 100
226 32.1 24.2 36.2
229 21.8 16.0 24.0





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 21.086 min Scan# 2108
Delta R.T. 0.000 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

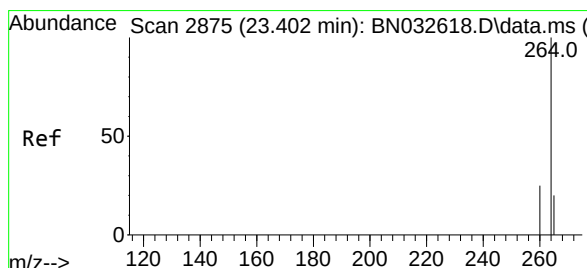
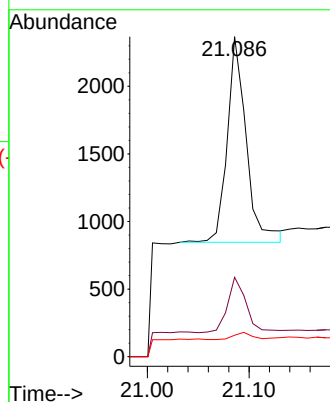
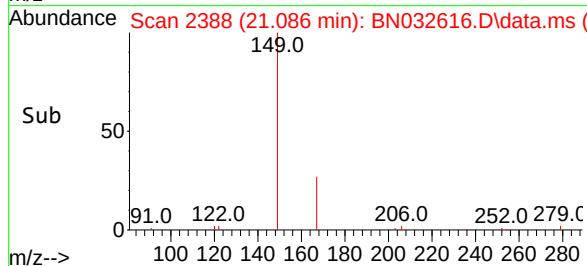
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:149 Resp: 1979
Ion Ratio Lower Upper
149 100
167 26.5 21.4 32.2
279 3.2 2.8 4.2

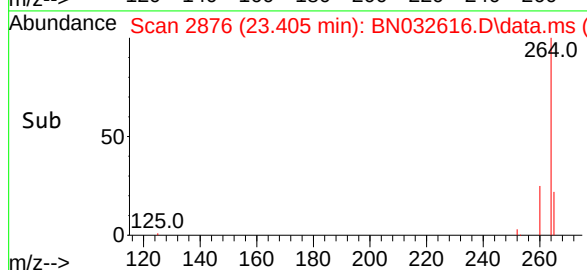
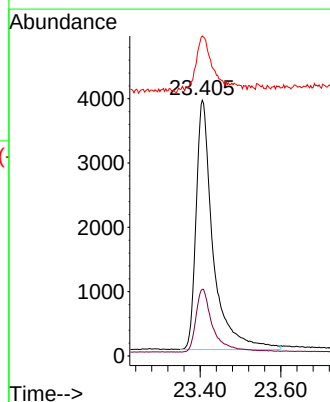
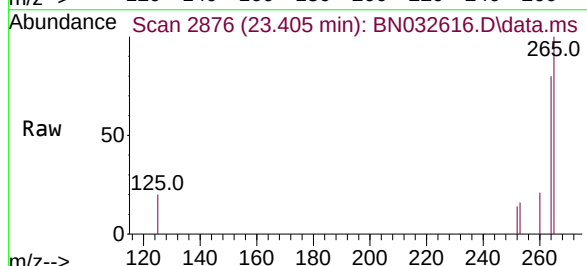
Manual Integrations
APPROVED

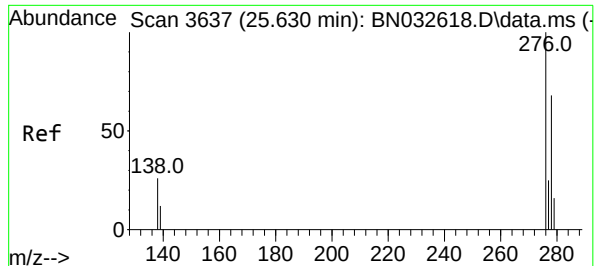
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.405 min Scan# 2876
Delta R.T. 0.003 min
Lab File: BN032616.D
Acq: 10 Jul 2024 15:54

Tgt Ion:264 Resp: 11367
Ion Ratio Lower Upper
264 100
260 26.1 20.9 31.3
265 125.1 85.4 128.2





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.098 ng

RT: 25.645 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:276 Resp: 439

Ion Ratio Lower Upper

276 100

138 21.8 21.0 31.4

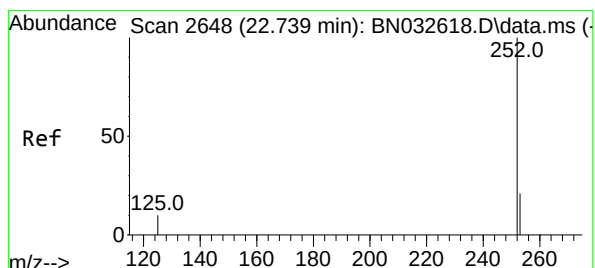
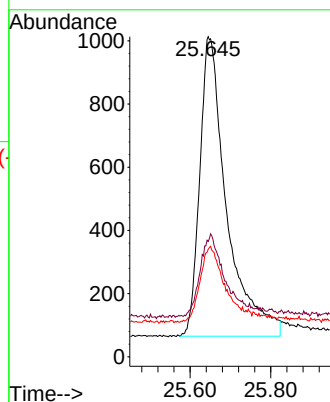
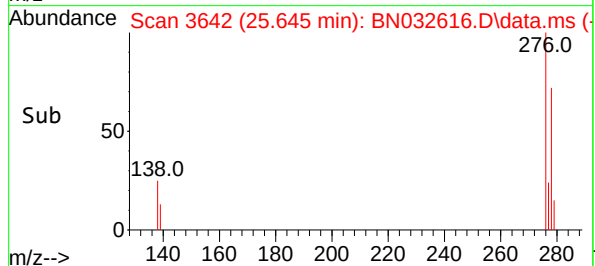
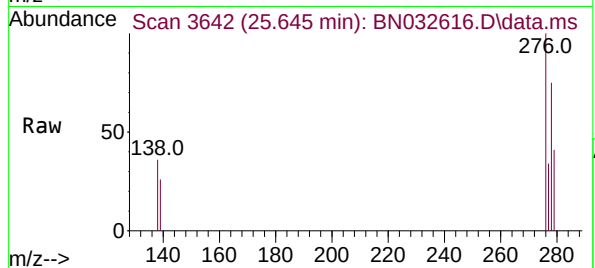
277 22.9 19.5 29.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#37

Benzo(b)fluoranthene

Concen: 0.085 ng

RT: 22.750 min Scan# 2652

Delta R.T. 0.012 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

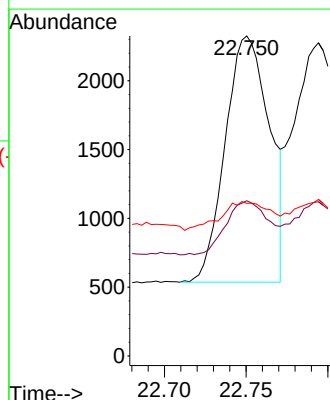
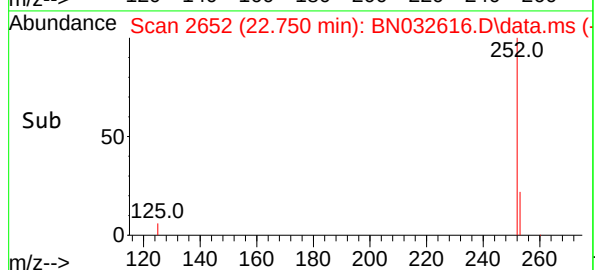
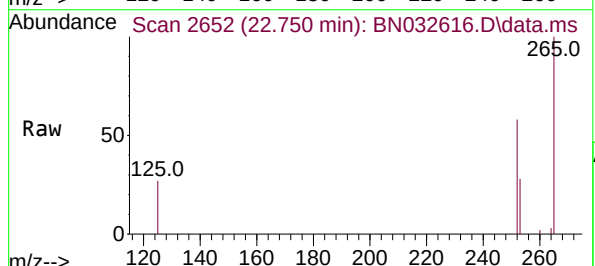
Tgt Ion:252 Resp: 3381

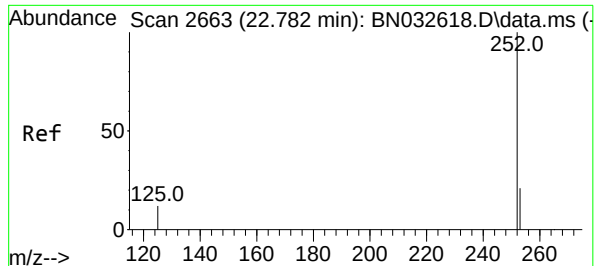
Ion Ratio Lower Upper

252 100

253 48.5 22.3 33.5#

125 47.7 15.4 23.2#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng m

RT: 22.794 min Scan# 2667

Delta R.T. 0.012 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

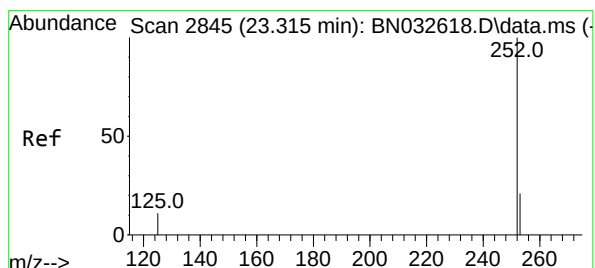
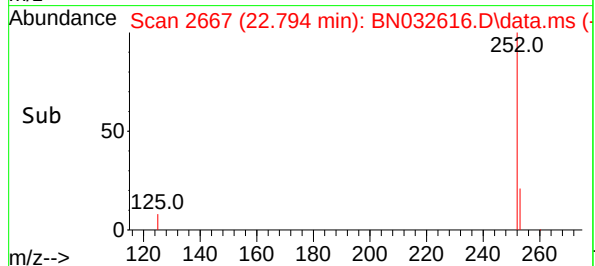
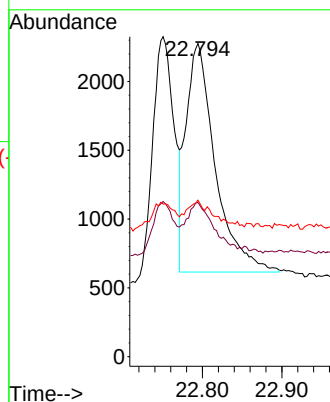
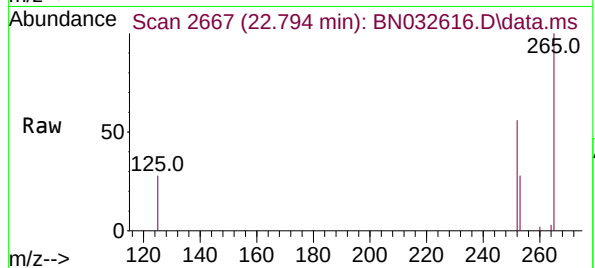
Tgt Ion:252	Resp:	4269
Ion Ratio	Lower	Upper
252	100	
253	49.3	22.6 34.0#
125	50.0	16.2 24.4#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#39

Benzo(a)pyrene

Concen: 0.096 ng

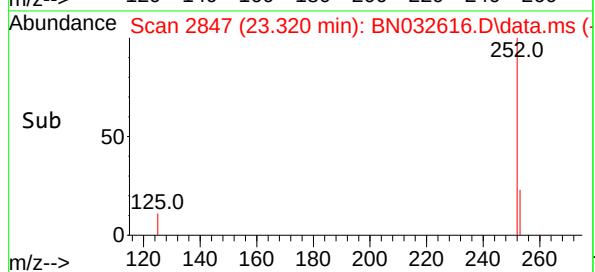
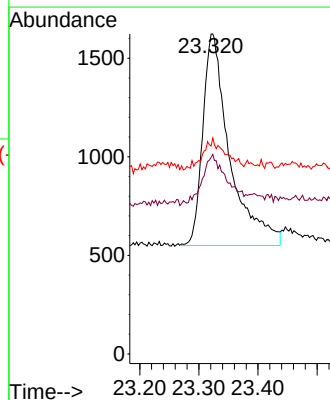
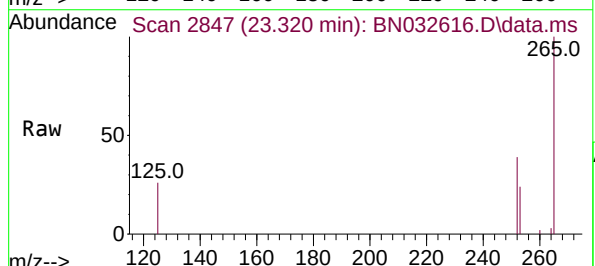
RT: 23.320 min Scan# 2847

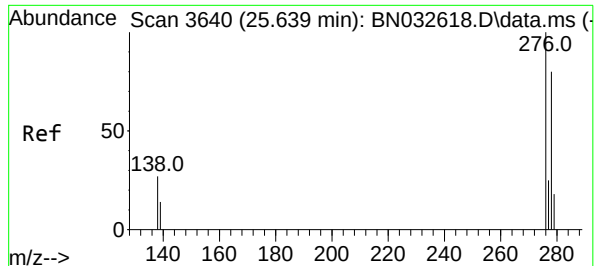
Delta R.T. 0.006 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

Tgt Ion:252	Resp:	3411
Ion Ratio	Lower	Upper
252	100	
253	61.4	25.8 38.8#
125	65.0	21.4 32.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.654 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN032616.D

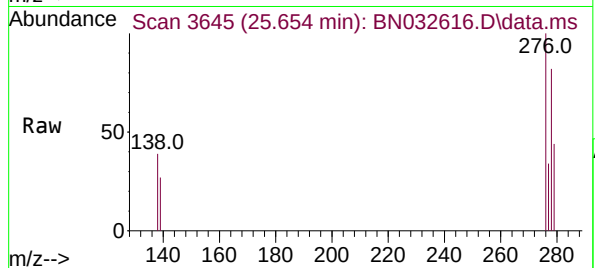
Acq: 10 Jul 2024 15:54

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



Tgt Ion:278 Resp: 3352

Ion Ratio Lower Upper

278 100

139 33.0 16.7 25.1#

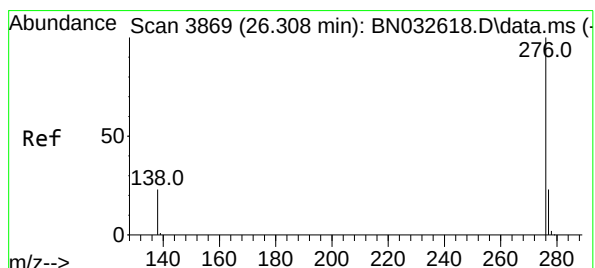
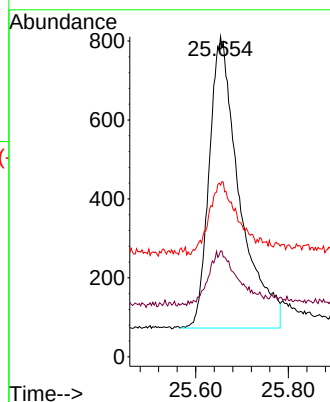
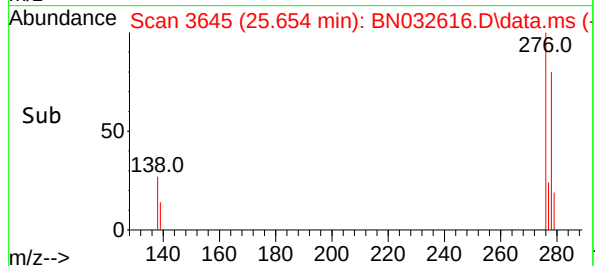
279 53.6 24.3 36.5#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#41

Benzo(g,h,i)perylene

Concen: 0.100 ng

RT: 26.323 min Scan# 3874

Delta R.T. 0.015 min

Lab File: BN032616.D

Acq: 10 Jul 2024 15:54

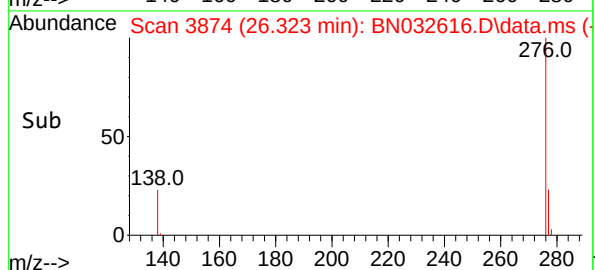
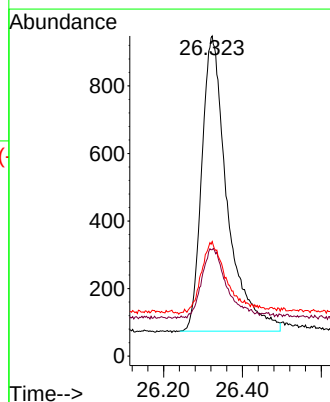
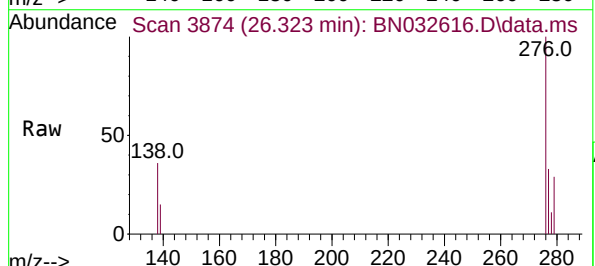
Tgt Ion:276 Resp: 3904

Ion Ratio Lower Upper

276 100

277 33.2 20.2 30.2#

138 35.8 20.5 30.7#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032617.D
 Acq On : 10 Jul 2024 16:30
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:36:36 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.574	152	4107	0.400	ng	0.00
7) Naphthalene-d8	10.368	136	12794	0.400	ng	0.01
13) Acenaphthene-d10	14.221	164	8748	0.400	ng	0.01
19) Phenanthrene-d10	16.991	188	19183	0.400	ng	0.01
29) Chrysene-d12	21.202	240	15620	0.400	ng	0.00
35) Perylene-d12	23.402	264	15078	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.205	112	2011	0.194	ng	0.00
5) Phenol-d6	6.823	99	2262	0.175	ng	0.03
8) Nitrobenzene-d5	8.809	82	1732	0.180	ng	0.03
11) 2-Methylnaphthalene-d10	11.983	152	3683	0.188	ng	0.02
14) 2,4,6-Tribromophenol	15.750	330	655	0.175	ng	0.01
15) 2-Fluorobiphenyl	12.863	172	6071	0.186	ng	0.01
27) Fluoranthene-d10	19.026	212	9463	0.191	ng	0.00
31) Terphenyl-d14	19.635	244	6201	0.194	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	1078	0.212	ng	# 97
3) n-Nitrosodimethylamine	3.479	42	838	0.195	ng	# 99
6) bis(2-Chloroethyl)ether	7.040	93	1728	0.160	ng	95
9) Naphthalene	10.411	128	6872	0.194	ng	# 94
10) Hexachlorobutadiene	10.645	225	1379	0.204	ng	# 100
12) 2-Methylnaphthalene	12.058	142	4254	0.184	ng	96
16) Acenaphthylene	13.943	152	6373	0.179	ng	98
17) Acenaphthene	14.285	154	4760	0.189	ng	100
18) Fluorene	15.290	166	6444	0.191	ng	100
20) 4,6-Dinitro-2-methylph...	15.493	198	269	0.350	ng	# 31
21) 4-Bromophenyl-phenylether	16.185	248	2098	0.186	ng	92
22) Hexachlorobenzene	16.284	284	2435	0.193	ng	97
23) Atrazine	16.470	200	1492	0.180	ng	95
24) Pentachlorophenol	16.669	266	772	0.165	ng	97
25) Phenanthrene	17.029	178	9461	0.180	ng	99
26) Anthracene	17.128	178	7118	0.165	ng	99
28) Fluoranthene	19.059	202	11847	0.187	ng	99
30) Pyrene	19.426	202	12255	0.192	ng	100
32) Benzo(a)anthracene	21.184	228	8415	0.170	ng	98
33) Chrysene	21.238	228	11768	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	5344	0.195	ng	100
36) Indeno(1,2,3-cd)pyrene	25.639	276	10630	0.179	ng	98
37) Benzo(b)fluoranthene	22.744	252	9009	0.172	ng	# 86
38) Benzo(k)fluoranthene	22.785	252	11516m	0.189	ng	
39) Benzo(a)pyrene	23.315	252	8607	0.182	ng	# 80
40) Dibenzo(a,h)anthracene	25.648	278	8413	0.179	ng	# 90
41) Benzo(g,h,i)perylene	26.311	276	9713	0.187	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032617.D
 Acq On : 10 Jul 2024 16:30
 Operator : MA/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

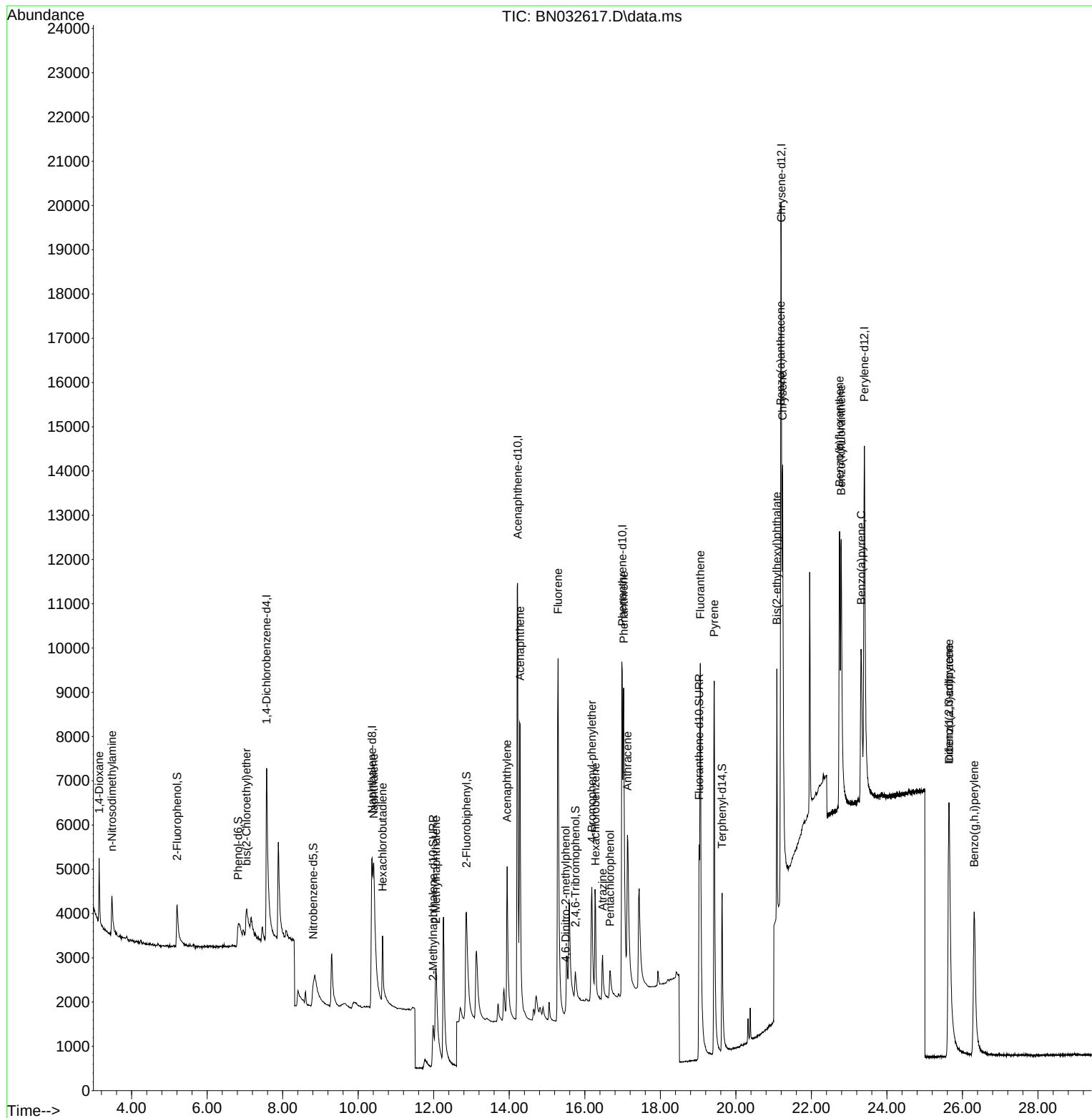
Manual Integrations

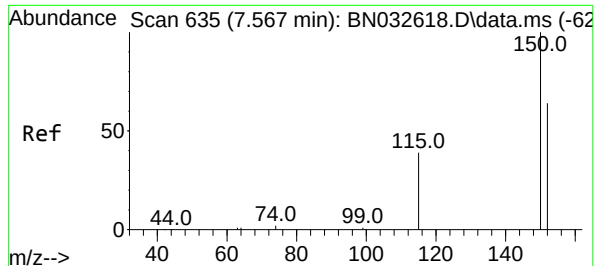
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

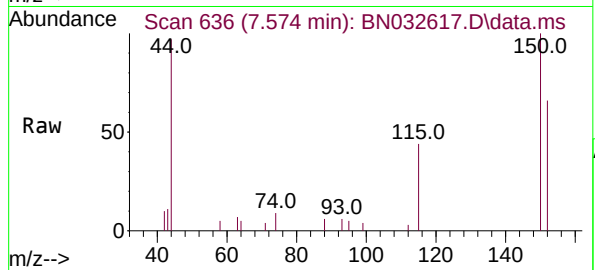
Quant Time: Jul 10 23:36:36 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 10 23:34:33 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.574 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

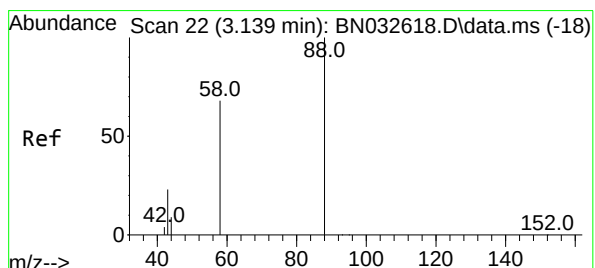
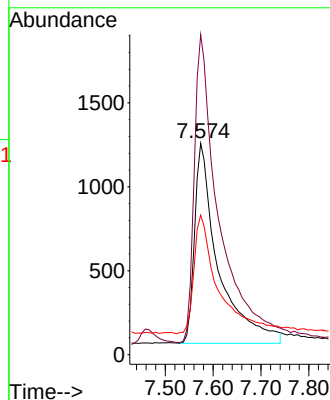
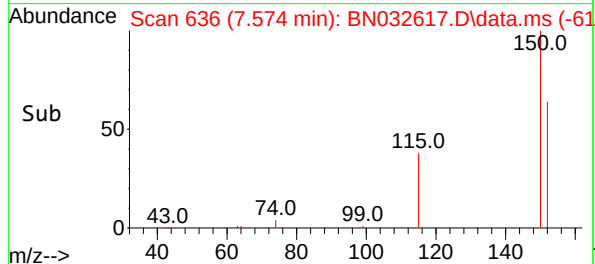
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 410
Ion Ratio Lower Upper
152 100
150 151.4 123.8 185.6
115 66.0 52.8 79.2

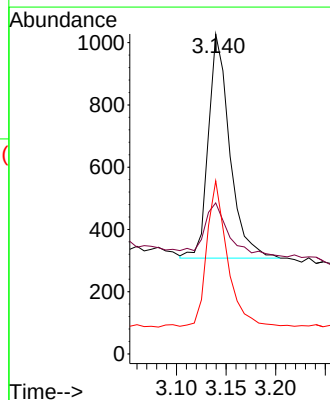
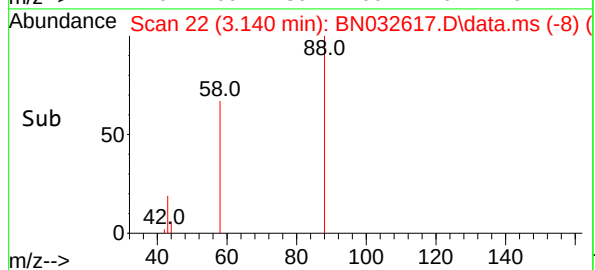
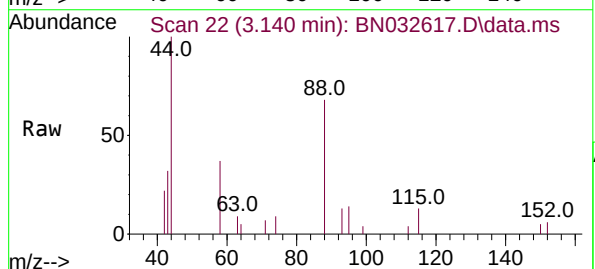
Manual Integrations
APPROVED

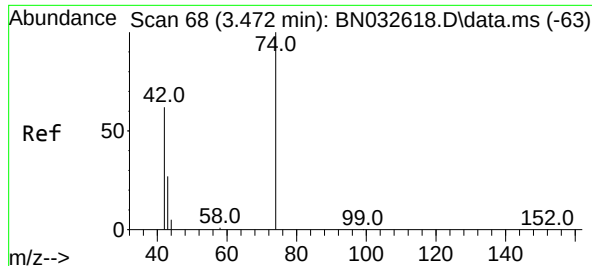
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.212 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

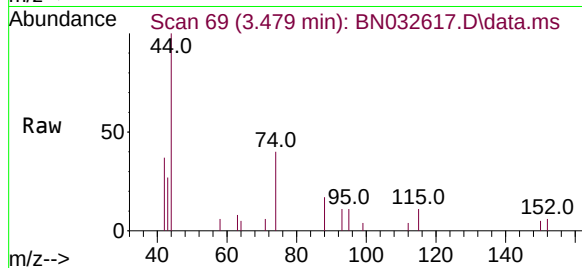
Tgt Ion: 88 Resp: 1078
Ion Ratio Lower Upper
88 100
43 28.8 18.4 27.6#
58 61.8 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.195 ng
RT: 3.479 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

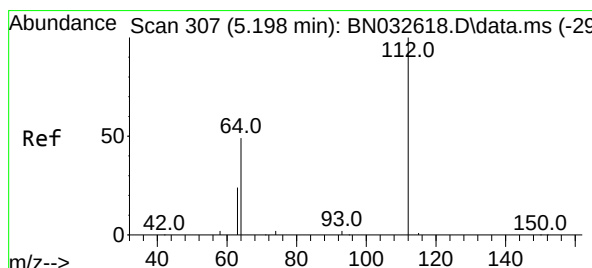
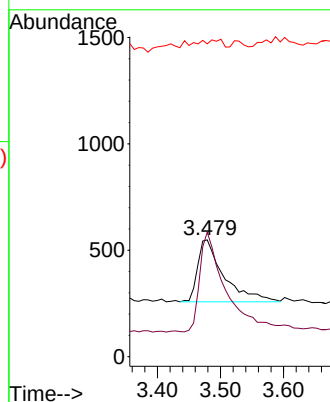
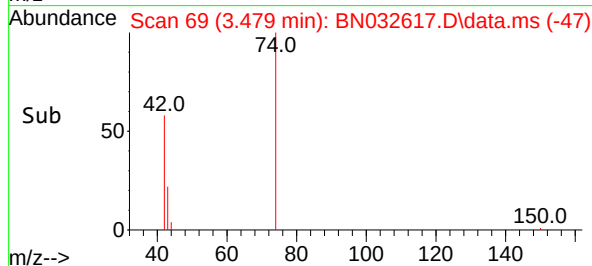
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
74 159.1 126.9 190.3
44 0.0 4.8 7.2

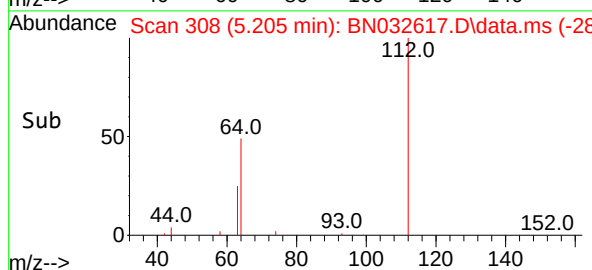
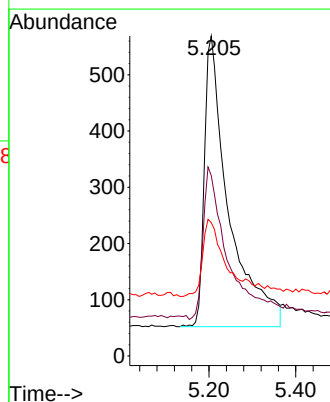
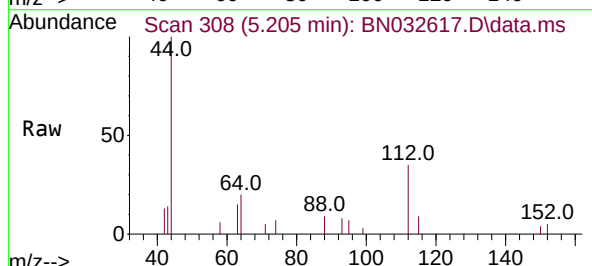
Manual Integrations
APPROVED

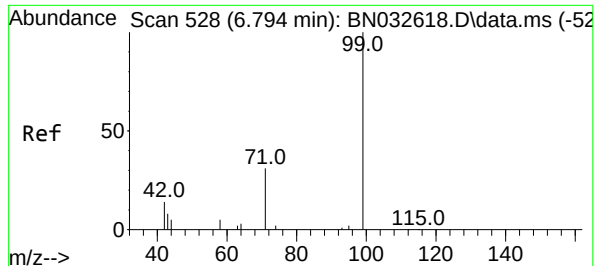
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.194 ng
RT: 5.205 min Scan# 308
Delta R.T. 0.007 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:112 Resp: 2011
Ion Ratio Lower Upper
112 100
64 54.5 40.2 60.4
63 26.2 22.2 33.4





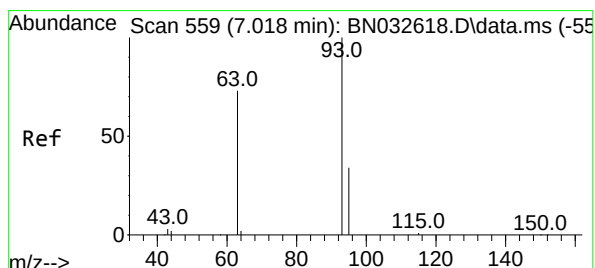
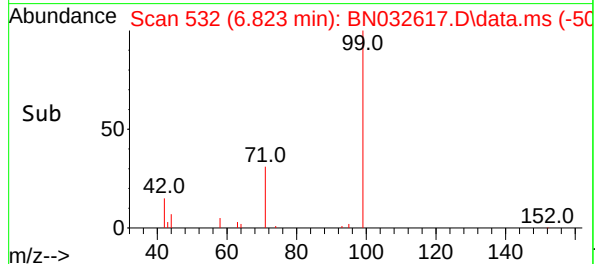
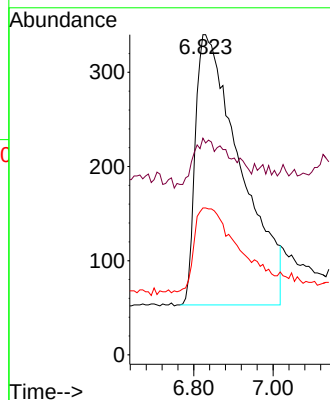
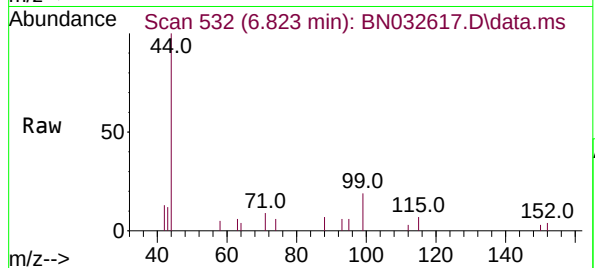
#5
Phenol-d6
Concen: 0.175 ng
RT: 6.823 min Scan# 51
Delta R.T. 0.029 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 226
Ion Ratio Lower Upper
99 100
42 7.2 10.5 15.7
71 30.9 22.3 33.5

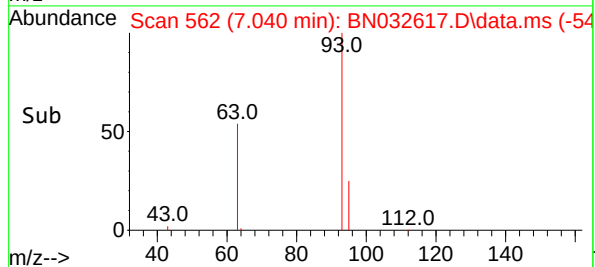
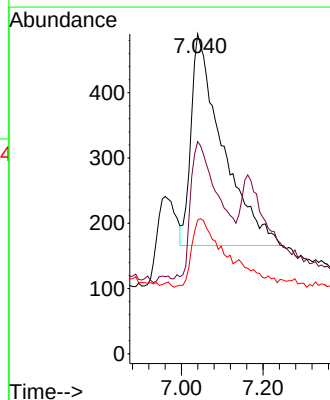
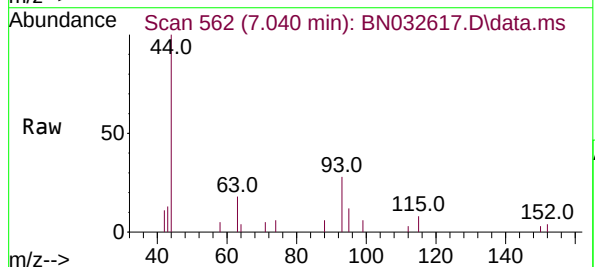
Manual Integrations
APPROVED

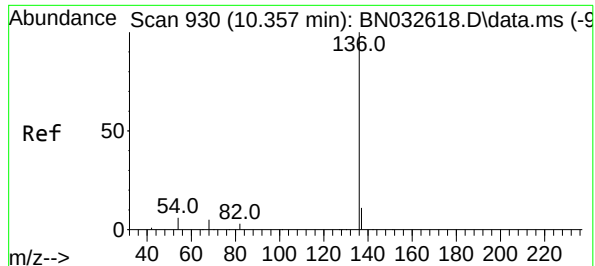
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.160 ng
RT: 7.040 min Scan# 562
Delta R.T. 0.022 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion: 93 Resp: 1728
Ion Ratio Lower Upper
93 100
63 60.8 46.4 69.6
95 35.8 25.5 38.3





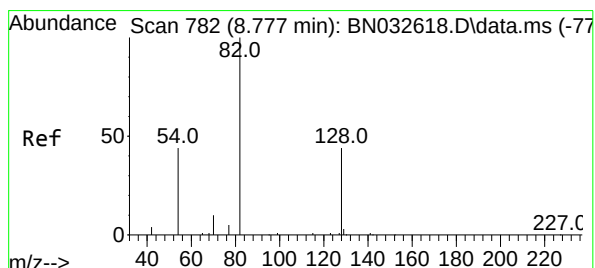
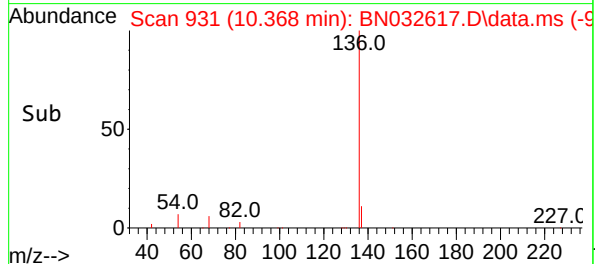
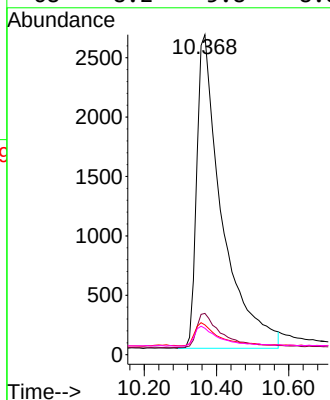
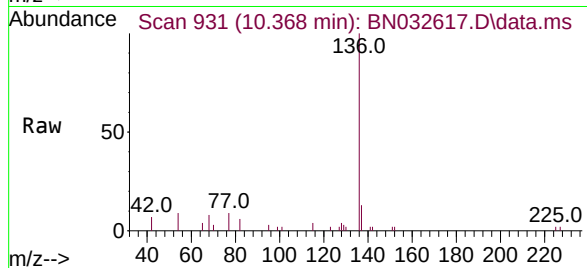
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.368 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:	136	Resp:	12794
Ion	Ratio	Lower	Upper
136	100		
137	12.9	9.9	14.9
54	9.3	6.5	9.7
68	8.2	5.8	8.8

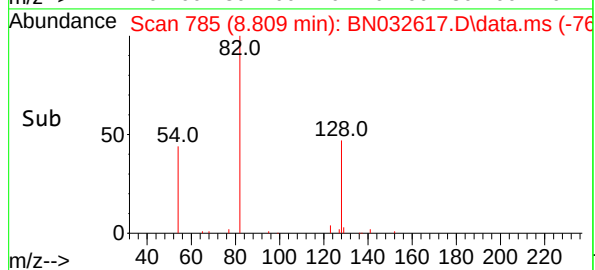
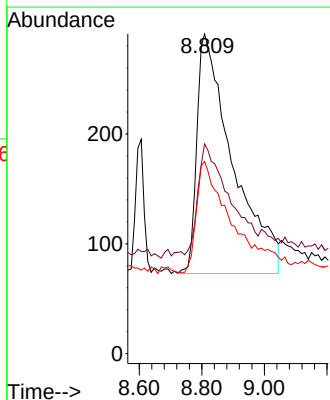
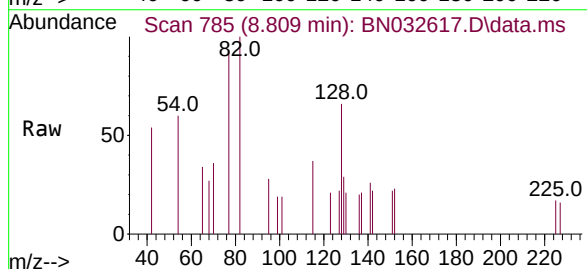
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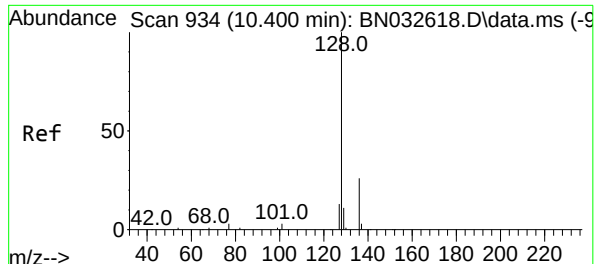
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.180 ng
RT: 8.809 min Scan# 785
Delta R.T. 0.032 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:	82	Resp:	1732
Ion	Ratio	Lower	Upper
82	100		
128	65.6	41.7	62.5#
54	60.1	39.5	59.3#





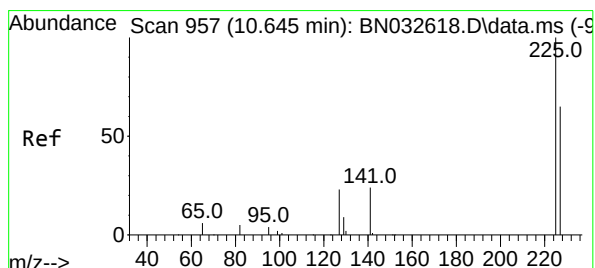
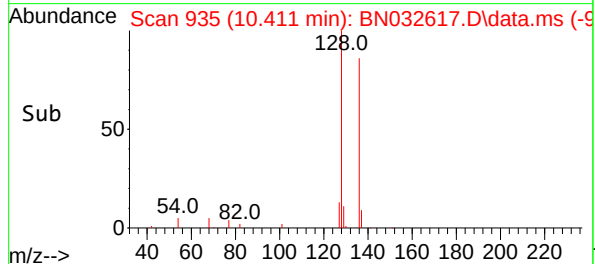
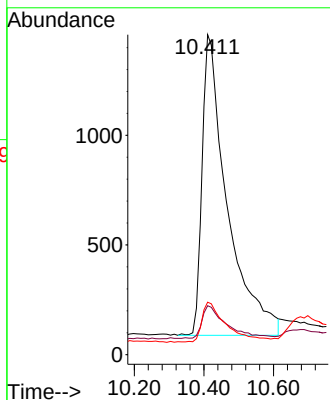
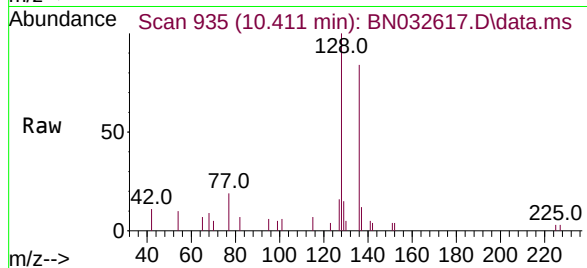
#9
Naphthalene
Concen: 0.194 ng
RT: 10.411 min Scan# 911
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 6872
Ion Ratio Lower Upper
128 100
129 15.3 9.8 14.8
127 16.4 11.5 17.3

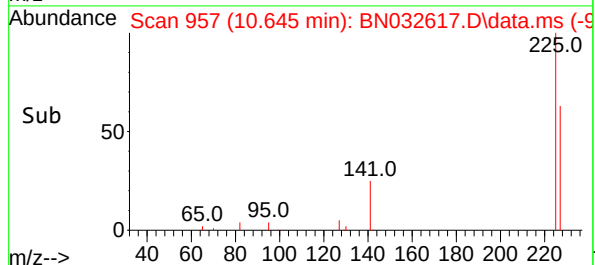
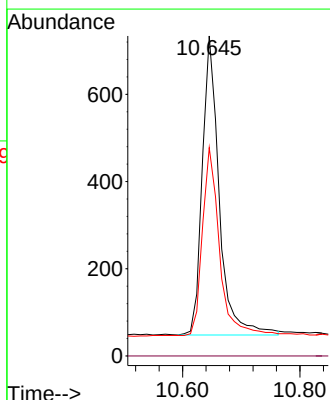
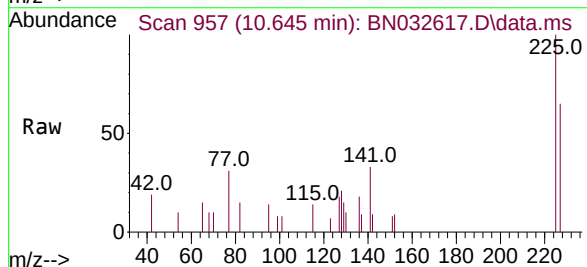
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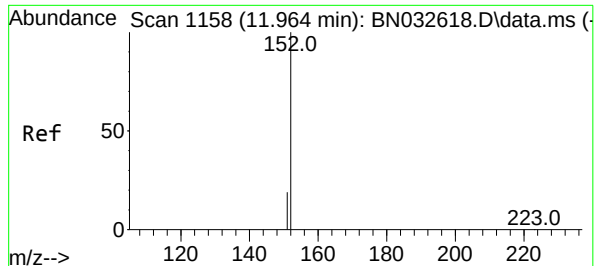
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.204 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

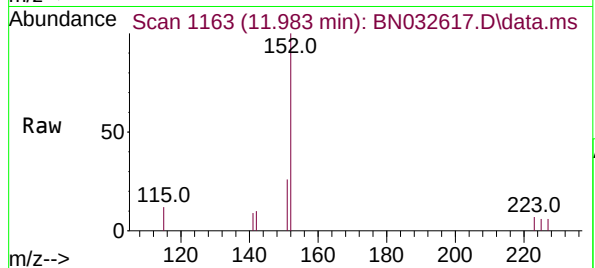
Tgt Ion:225 Resp: 1379
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.983 min Scan# 1163
Delta R.T. 0.019 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

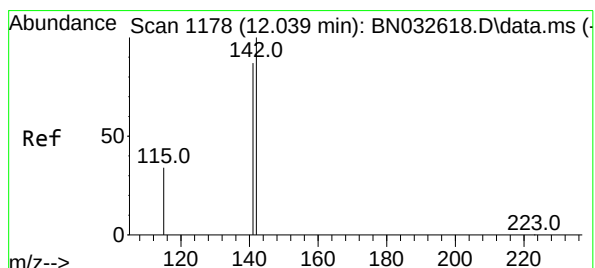
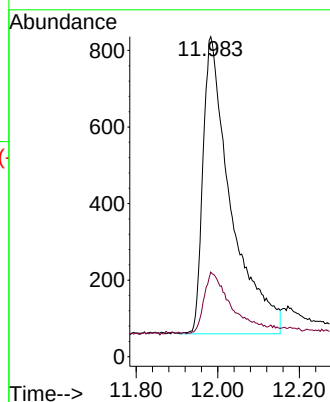
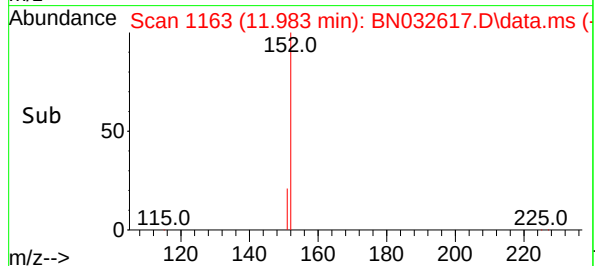
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 368
Ion Ratio Lower Upper
152 100
151 20.0 16.2 24.2

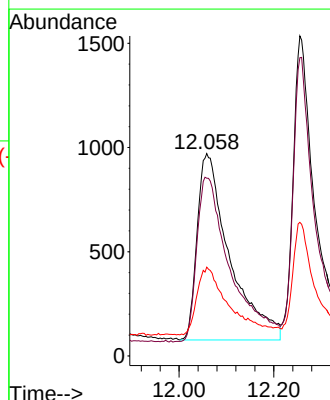
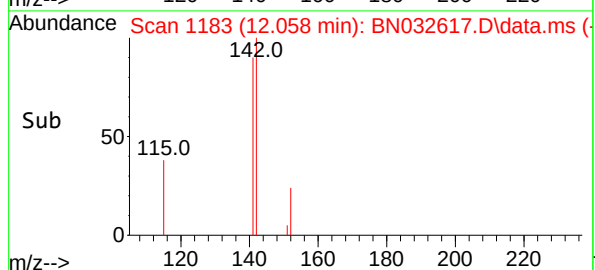
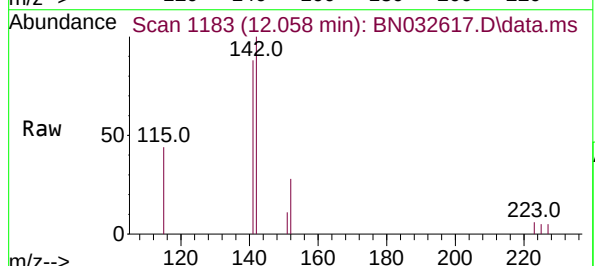
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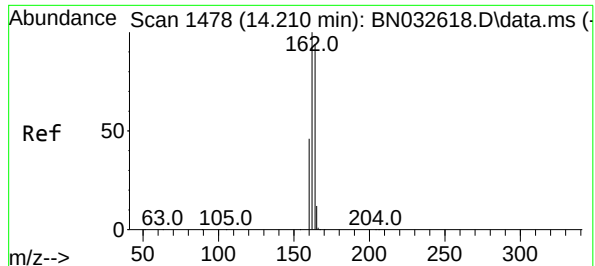
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 0.184 ng
RT: 12.058 min Scan# 1183
Delta R.T. 0.019 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

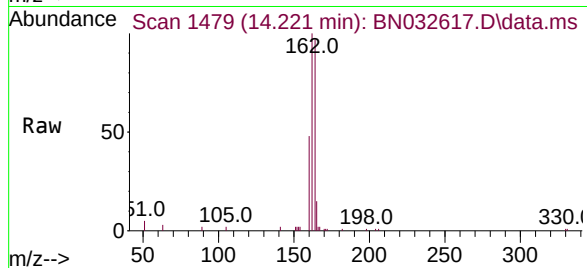
Tgt Ion:142 Resp: 4254
Ion Ratio Lower Upper
142 100
141 87.8 69.3 103.9
115 43.9 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.221 min Scan# 1478
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

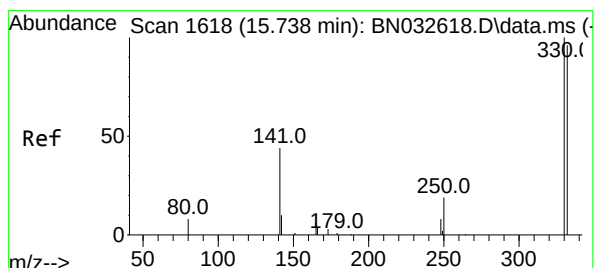
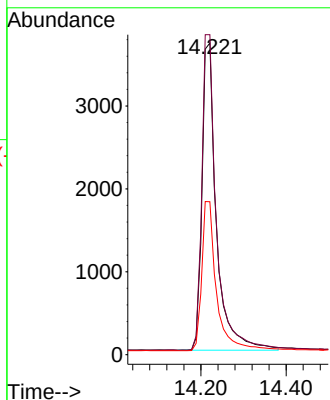
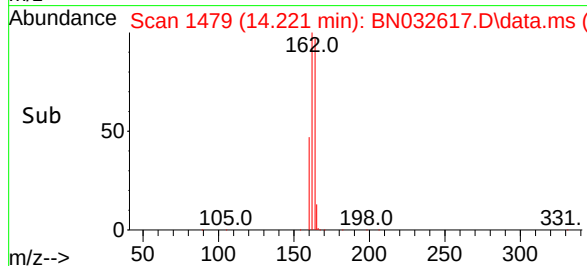
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



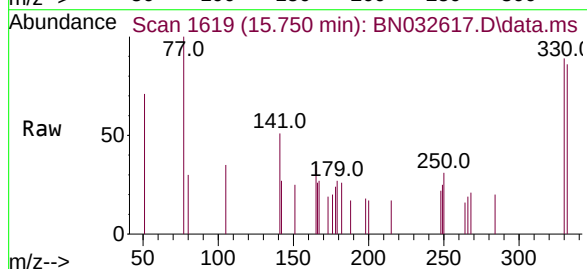
Tgt Ion:164 Resp: 874
Ion Ratio Lower Upper
164 100
162 102.7 85.0 127.4
160 49.1 39.4 59.2

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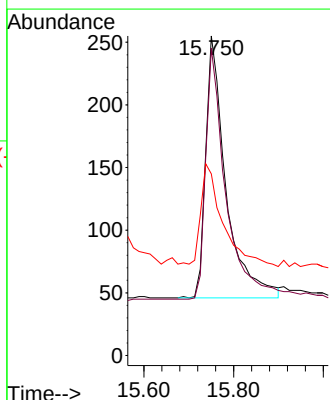
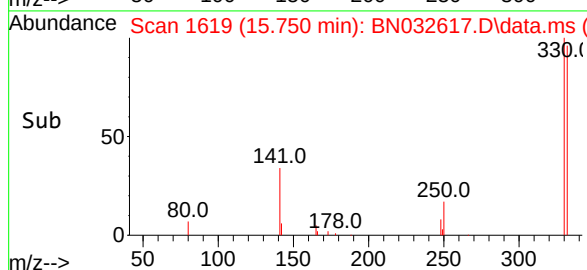
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

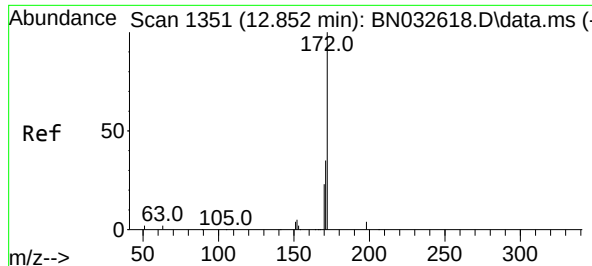


#14
2,4,6-Tribromophenol
Concen: 0.175 ng
RT: 15.750 min Scan# 1619
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30



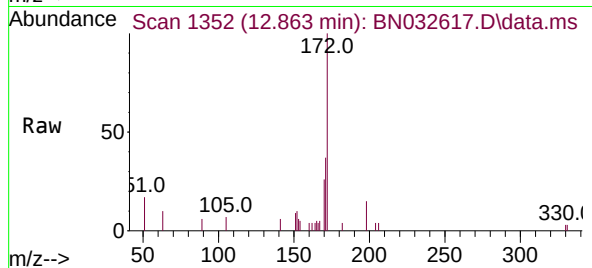
Tgt Ion:330 Resp: 655
Ion Ratio Lower Upper
330 100
332 94.8 77.8 116.8
141 42.6 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.186 ng
RT: 12.863 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

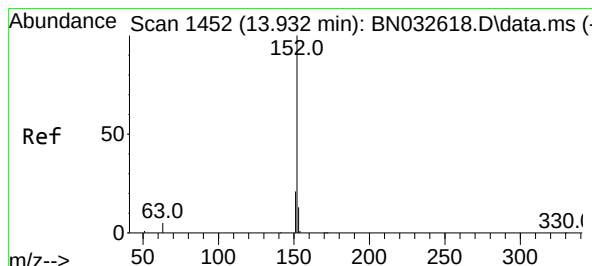
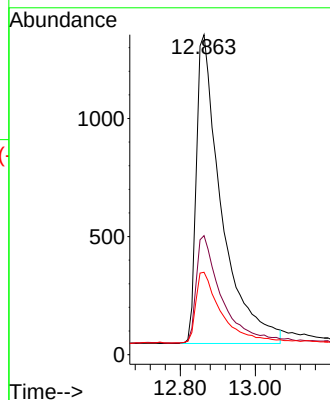
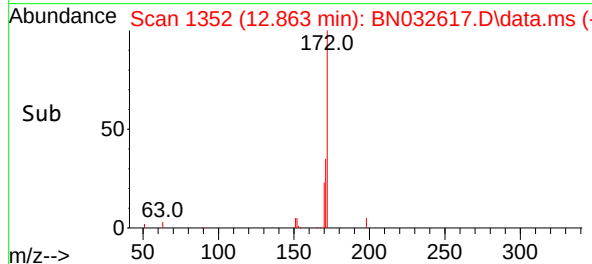
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 607
Ion Ratio Lower Upper
172 100
171 37.2 28.6 43.0
170 25.8 19.0 28.6

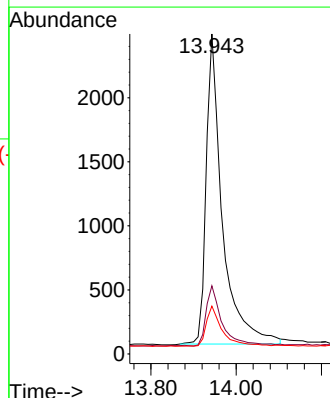
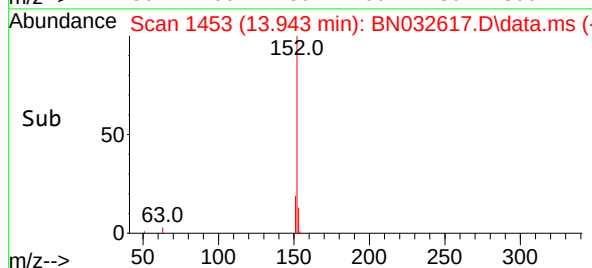
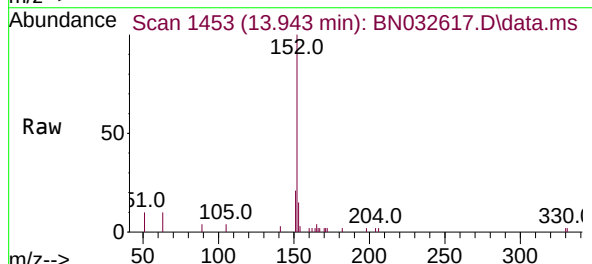
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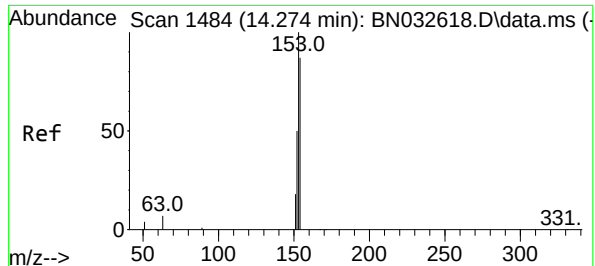
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.179 ng
RT: 13.943 min Scan# 1453
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

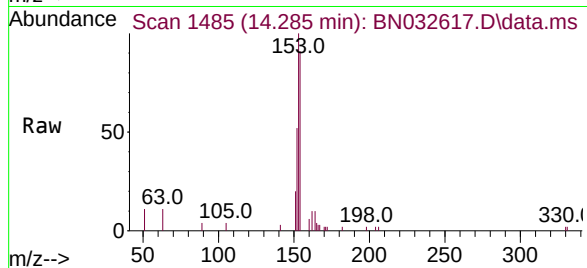
Tgt Ion:152 Resp: 6373
Ion Ratio Lower Upper
152 100
151 19.3 16.0 24.0
153 12.6 10.6 15.8





#17
Acenaphthene
Concen: 0.189 ng
RT: 14.285 min Scan# 1485
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

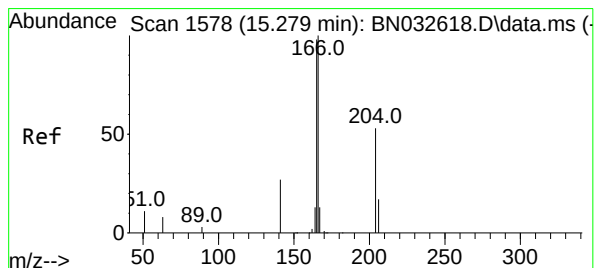
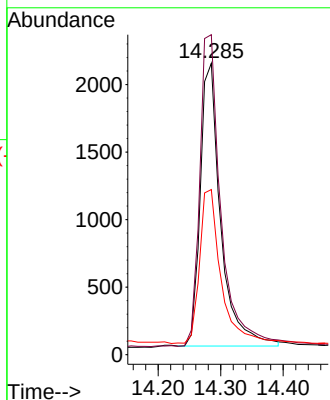
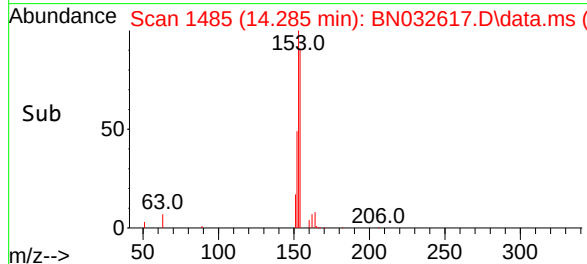
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 4760
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 56.8 45.2 67.8

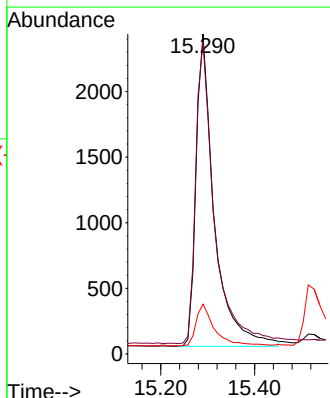
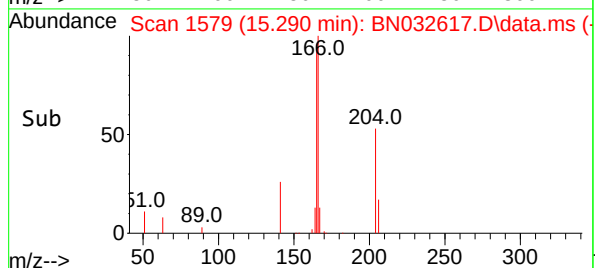
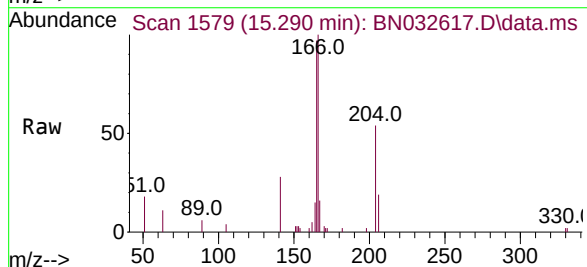
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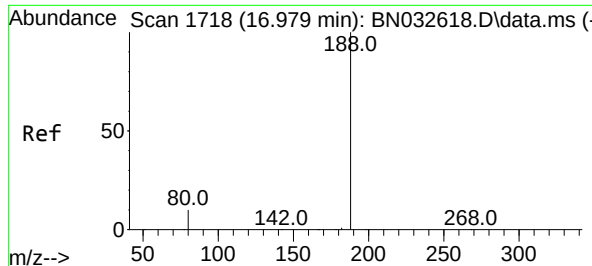
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.191 ng
RT: 15.290 min Scan# 1579
Delta R.T. 0.011 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:166 Resp: 6444
Ion Ratio Lower Upper
166 100
165 97.3 78.0 117.0
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.991 min Scan# 11

Delta R.T. 0.013 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

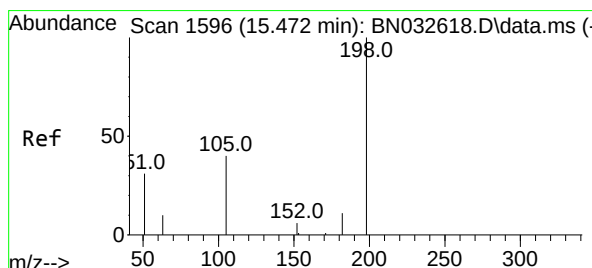
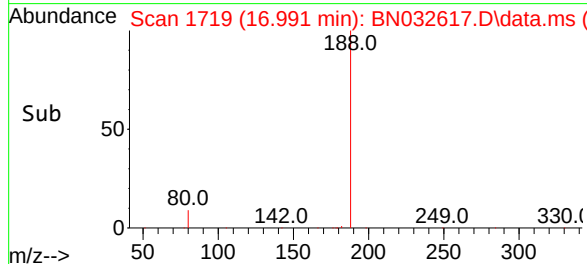
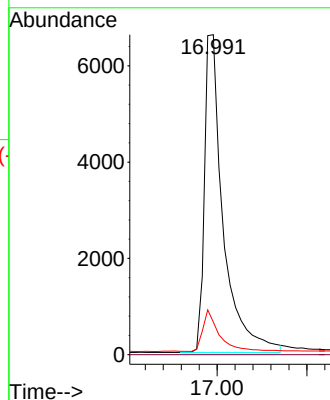
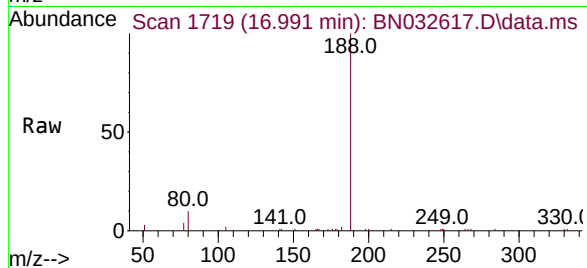
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.350 ng

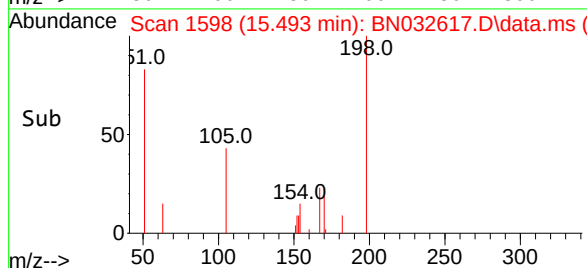
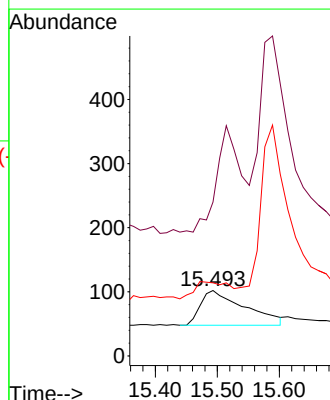
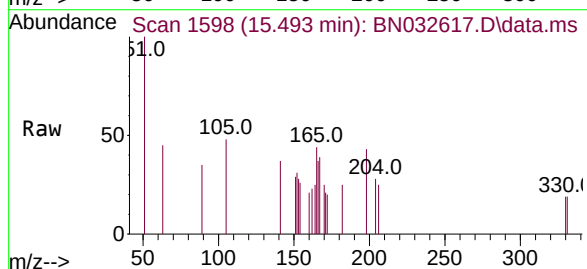
RT: 15.493 min Scan# 1598

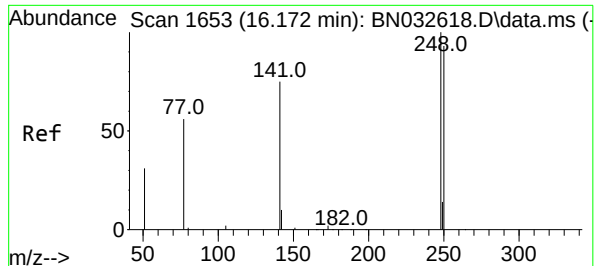
Delta R.T. 0.021 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion	Ratio	Lower	Upper
198	100		
51	235.3	105.7	158.5#
105	111.8	63.0	94.6#





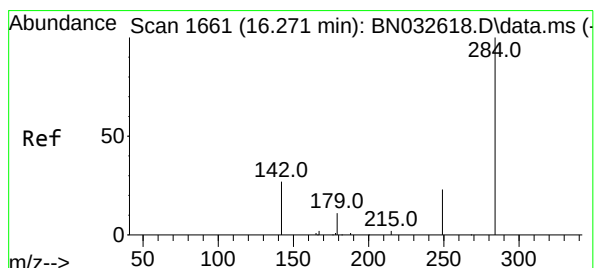
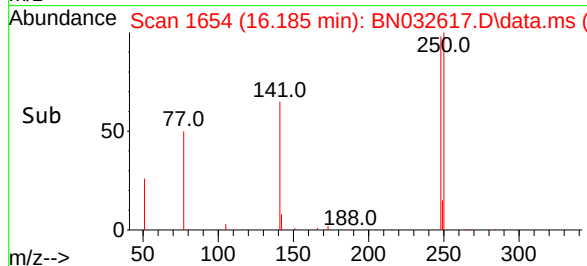
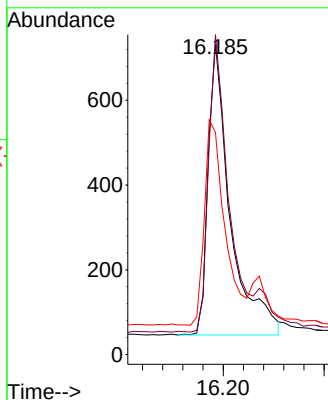
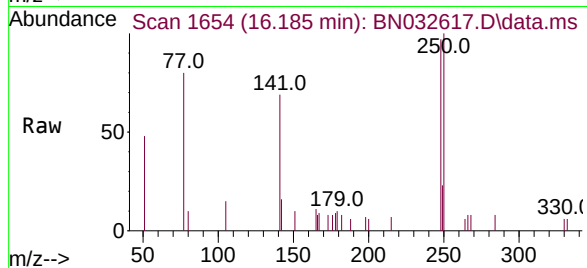
#21
4-Bromophenyl-phenylether
Concen: 0.186 ng
RT: 16.185 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2098
Ion Ratio Lower Upper
248 100
250 103.0 75.1 112.7
141 71.5 62.0 93.0

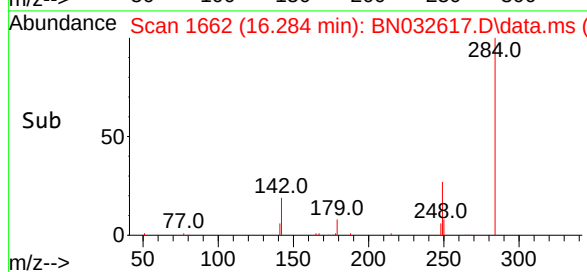
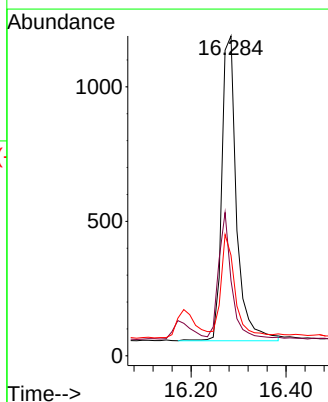
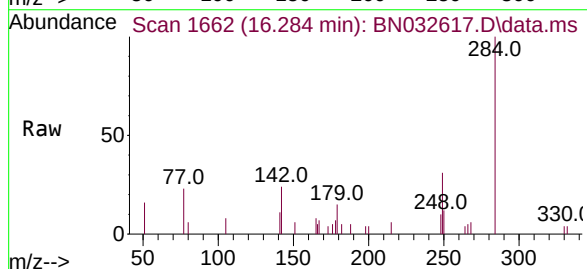
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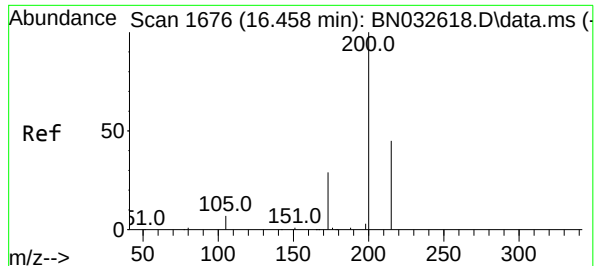
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.193 ng
RT: 16.284 min Scan# 1662
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:284 Resp: 2435
Ion Ratio Lower Upper
284 100
142 34.8 29.4 44.0
249 29.4 24.6 36.8





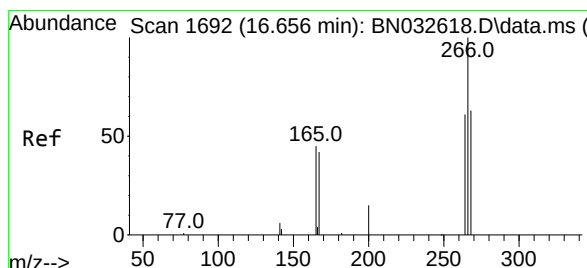
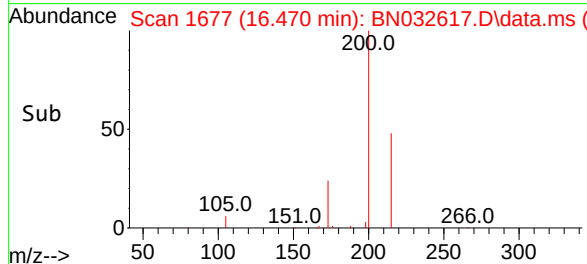
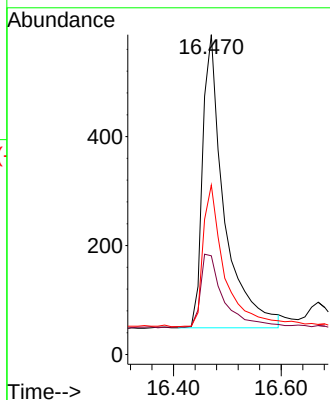
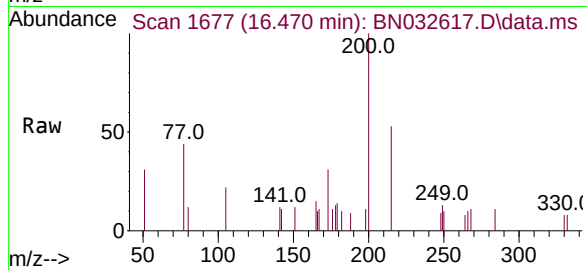
#23
Atrazine
Concen: 0.180 ng
RT: 16.470 min Scan# 1676
Delta R.T. 0.012 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 149
Ion Ratio Lower Upper
200 100
173 30.8 25.4 38.2
215 53.0 38.2 57.2

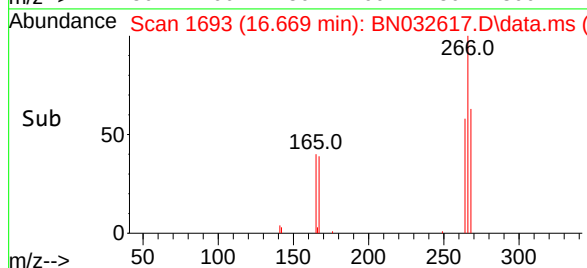
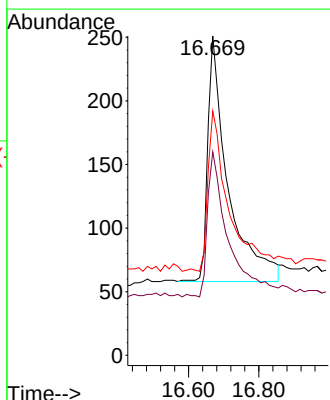
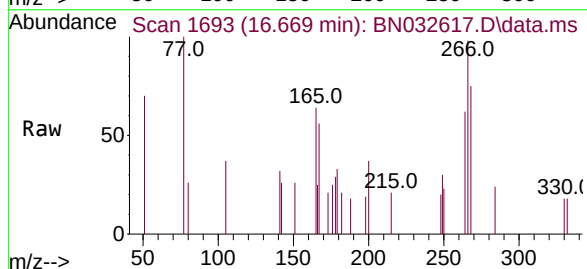
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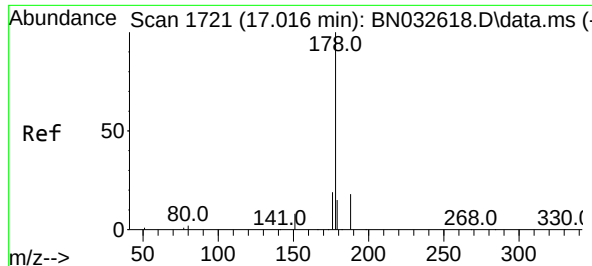
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.165 ng
RT: 16.669 min Scan# 1693
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:266 Resp: 772
Ion Ratio Lower Upper
266 100
264 59.5 50.2 75.2
268 68.0 52.8 79.2





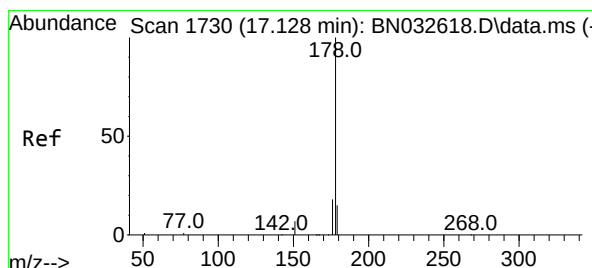
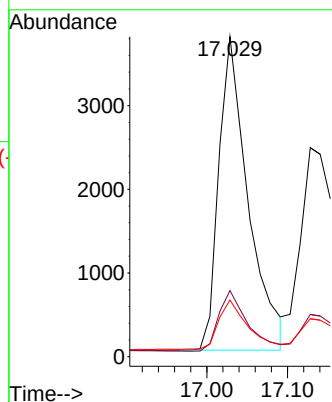
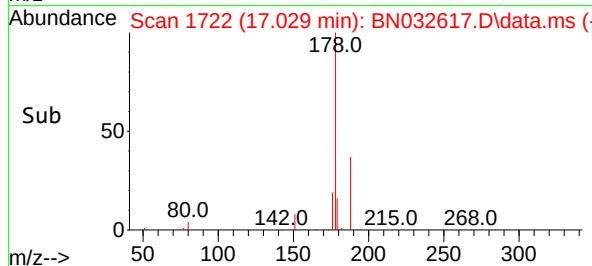
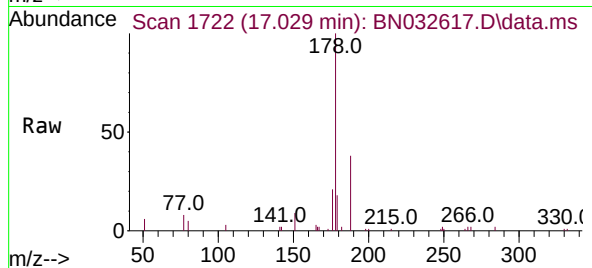
#25
Phenanthrene
Concen: 0.180 ng
RT: 17.029 min Scan# 1721
Delta R.T. 0.013 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 946
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.7 12.2 18.4

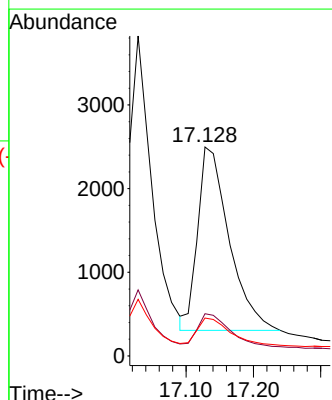
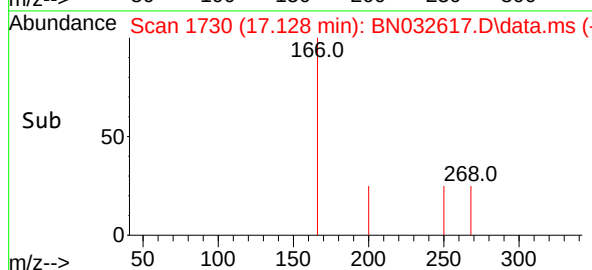
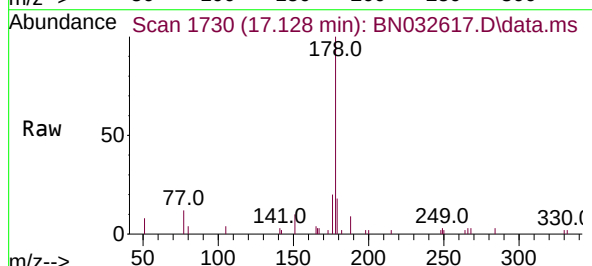
Manual Integrations
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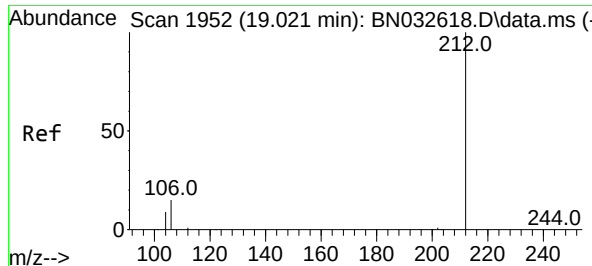
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.165 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:178 Resp: 7118
Ion Ratio Lower Upper
178 100
176 18.2 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.191 ng

RT: 19.026 min Scan# 1952

Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

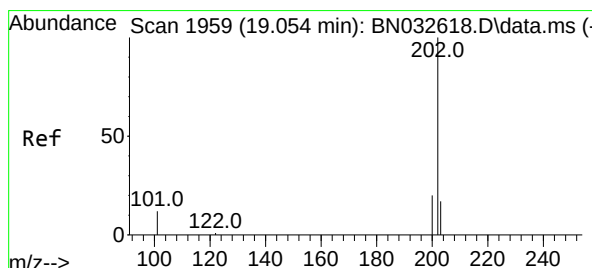
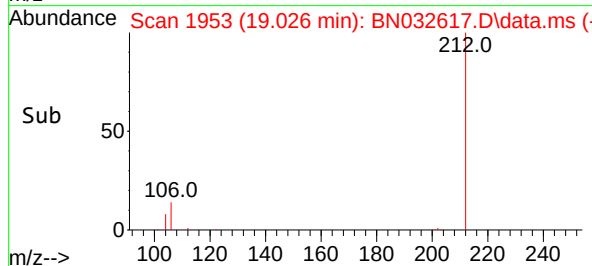
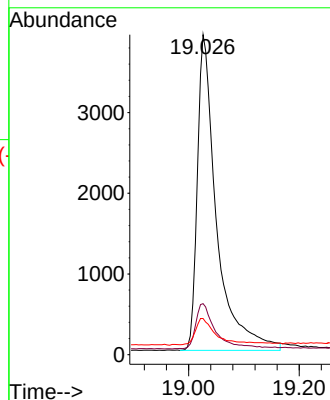
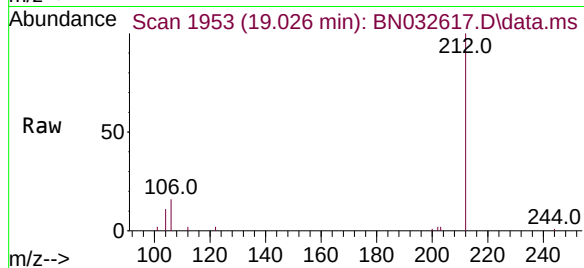
SSTDIC0.2

Tgt Ion:	212	Resp:	946
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.9	17.9
104	9.2	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.187 ng

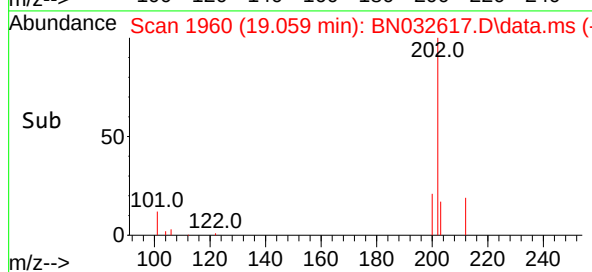
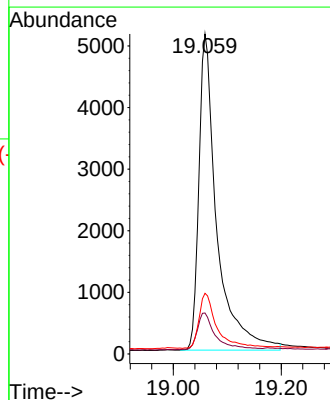
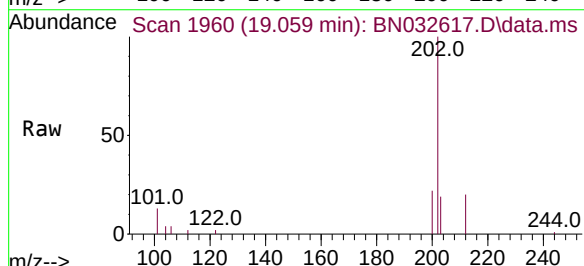
RT: 19.059 min Scan# 1960

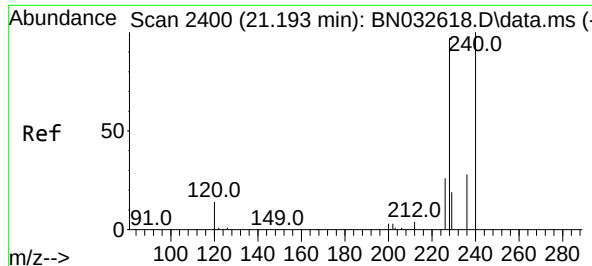
Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:	202	Resp:	11847
Ion	Ratio	Lower	Upper
202	100		
101	11.6	9.6	14.4
203	17.5	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.202 min Scan# 2400

Delta R.T. 0.009 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

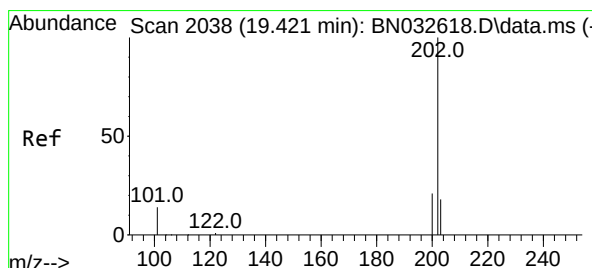
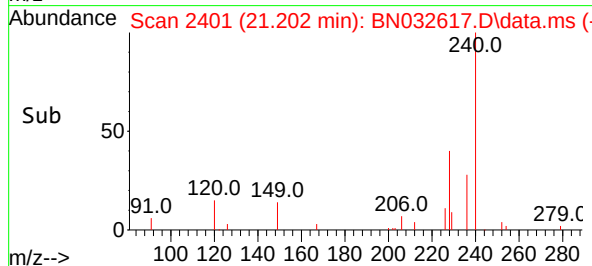
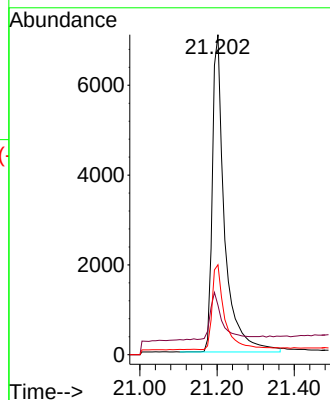
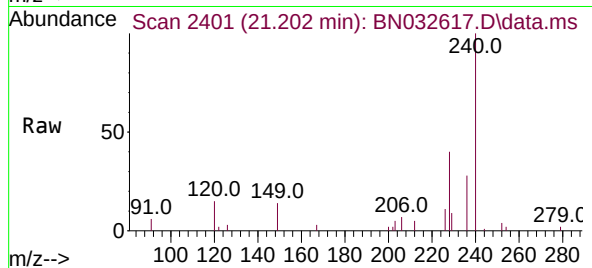
SSTDICC0.2

Tgt Ion:240	Resp:	15620
Ion Ratio	Lower	Upper
240	100	
120	15.4	14.8 22.2
236	28.1	23.3 34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.192 ng

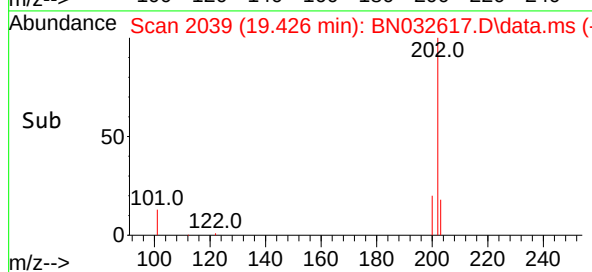
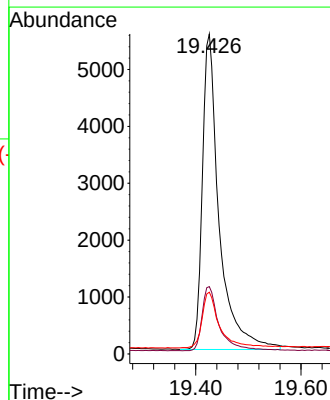
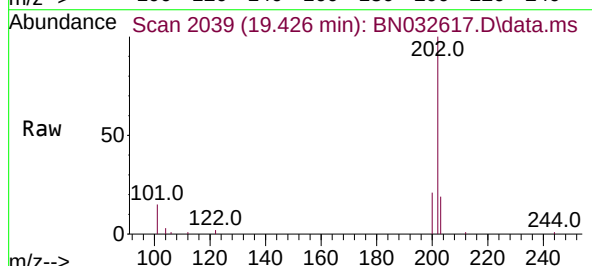
RT: 19.426 min Scan# 2039

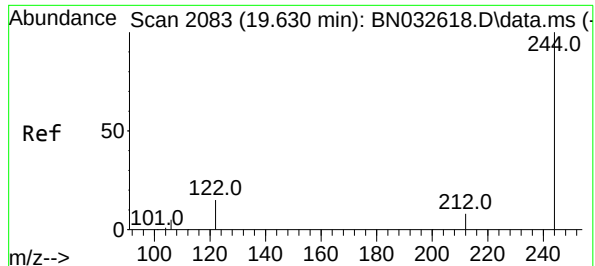
Delta R.T. 0.005 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:202	Resp:	12255
Ion Ratio	Lower	Upper
202	100	
200	20.8	16.6 25.0
203	18.6	14.8 22.2





#31
Terphenyl-d14
Concen: 0.194 ng
RT: 19.635 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

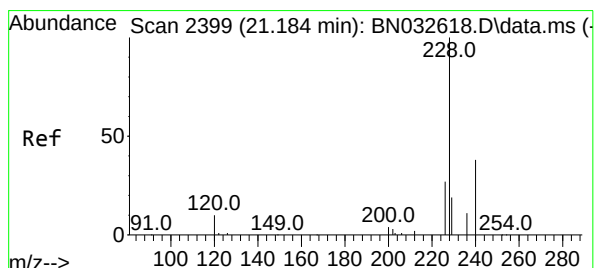
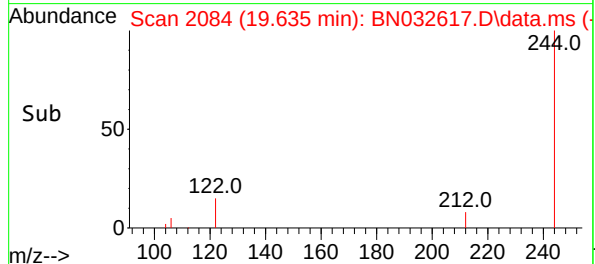
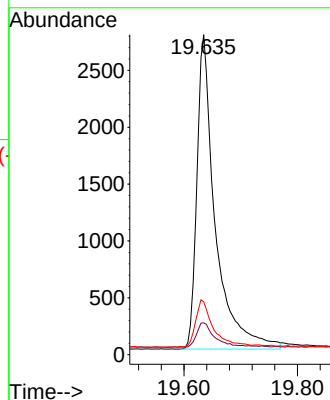
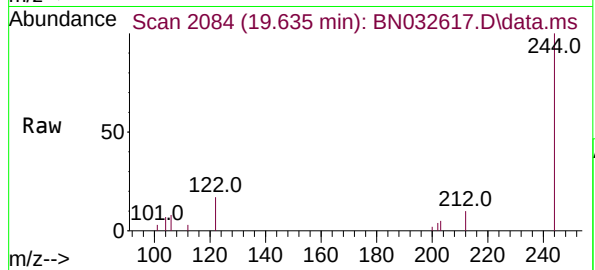
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.5	11.3
122	16.5	12.6	19.0

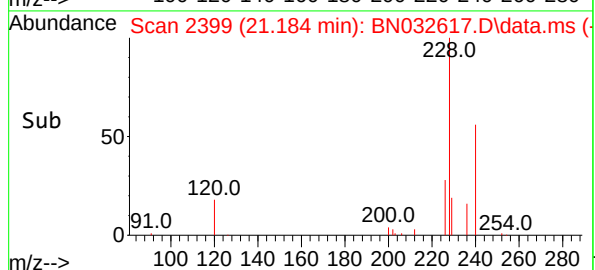
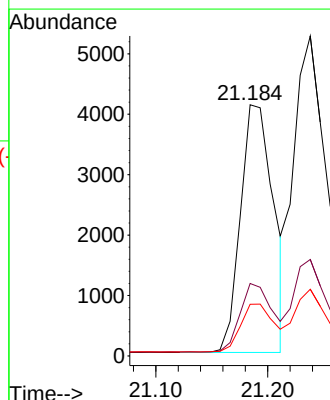
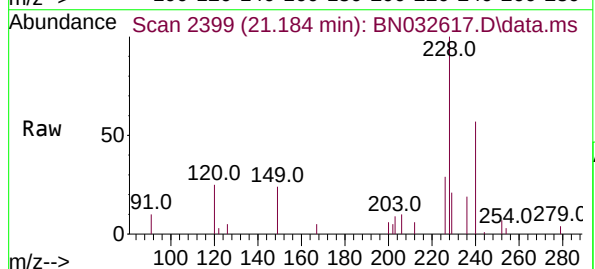
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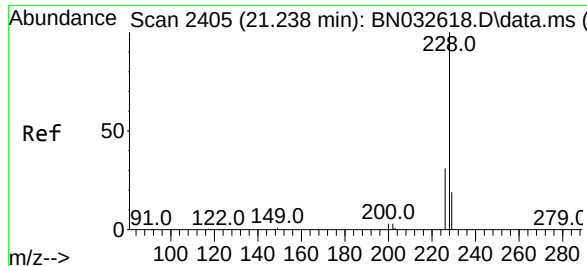
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.170 ng
RT: 21.184 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

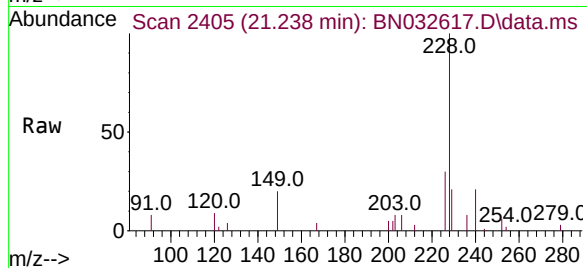
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.6
229	20.6	16.0	24.0





#33
Chrysene
Concen: 0.200 ng
RT: 21.238 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

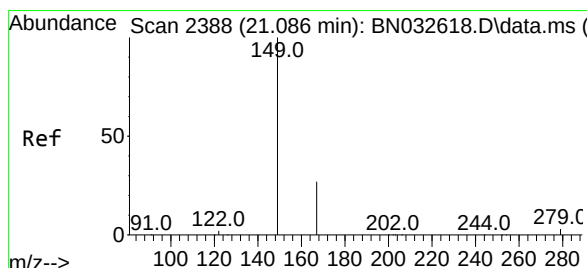
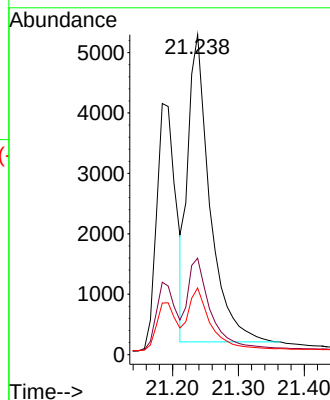
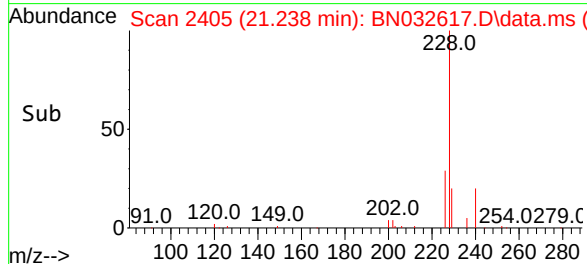
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:228 Resp: 1176
Ion Ratio Lower Upper
228 100
226 30.2 24.2 36.2
229 20.8 16.0 24.0

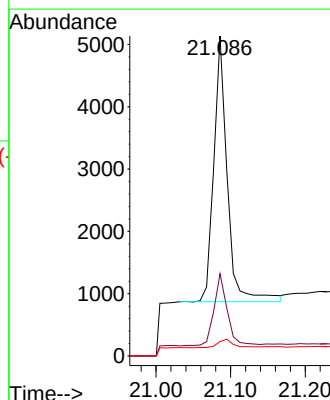
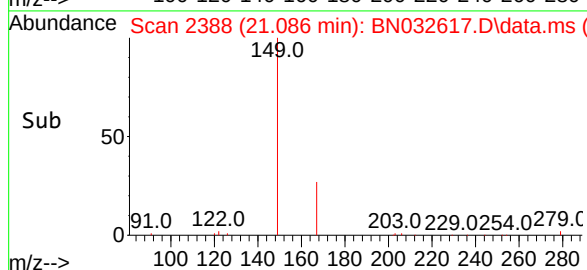
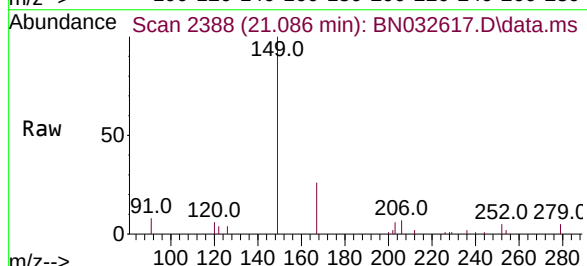
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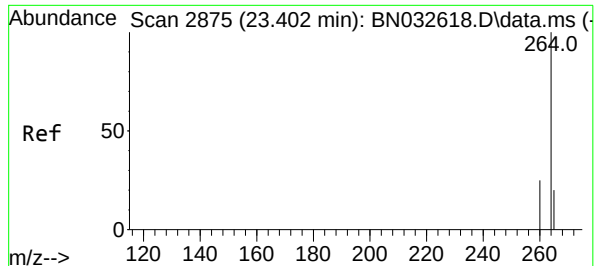
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.195 ng
RT: 21.086 min Scan# 2388
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

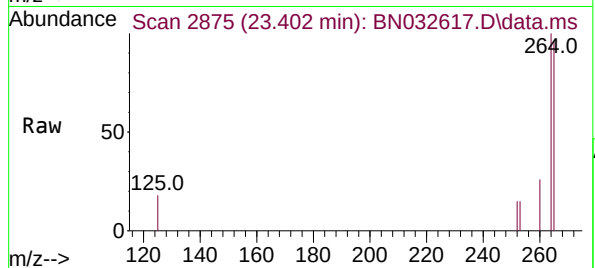
Tgt Ion:149 Resp: 5344
Ion Ratio Lower Upper
149 100
167 27.0 21.4 32.2
279 3.8 2.8 4.2





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.402 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

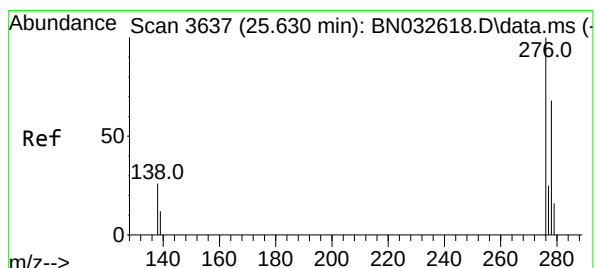
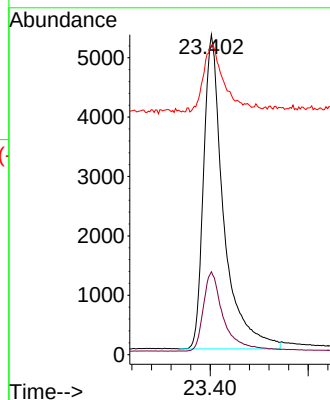
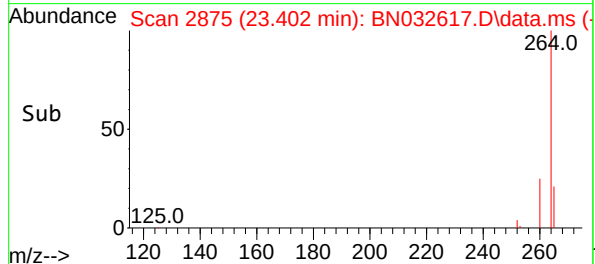
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:264 Resp: 15078
Ion Ratio Lower Upper
264 100
260 25.9 20.9 31.3
265 96.4 85.4 128.2

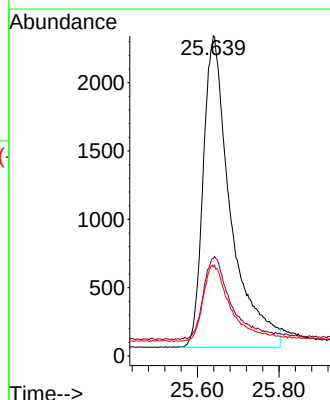
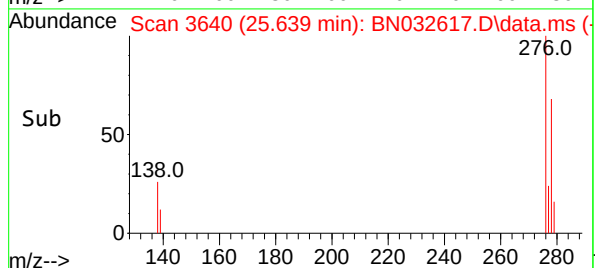
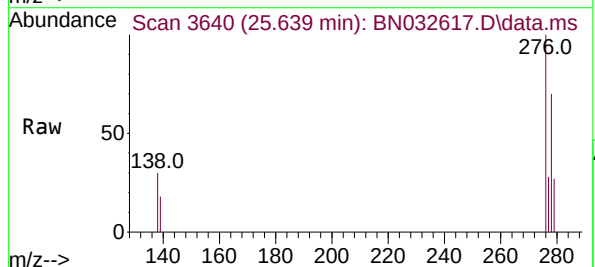
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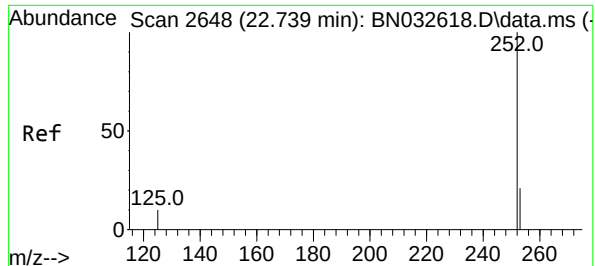
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.179 ng
RT: 25.639 min Scan# 3640
Delta R.T. 0.009 min
Lab File: BN032617.D
Acq: 10 Jul 2024 16:30

Tgt Ion:276 Resp: 10630
Ion Ratio Lower Upper
276 100
138 25.1 21.0 31.4
277 24.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.172 ng

RT: 22.744 min Scan# 2650

Delta R.T. 0.006 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

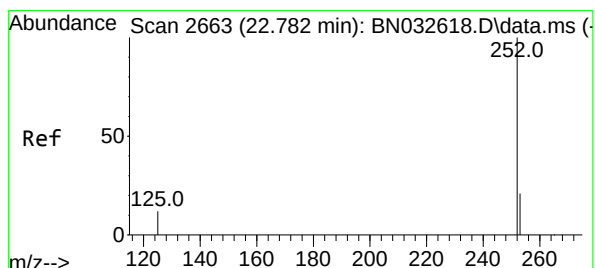
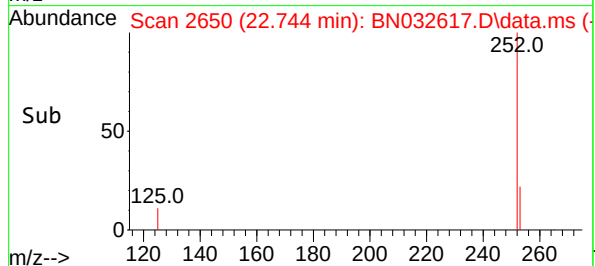
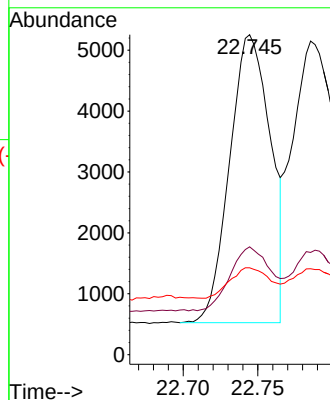
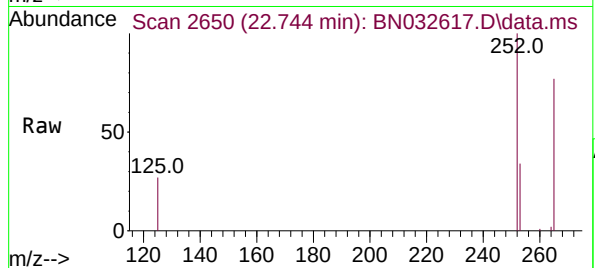
Tgt Ion:252	Resp:	9009
Ion Ratio	Lower	Upper
252	100	
253	33.7	22.3 33.5
125	27.2	15.4 23.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.189 ng m

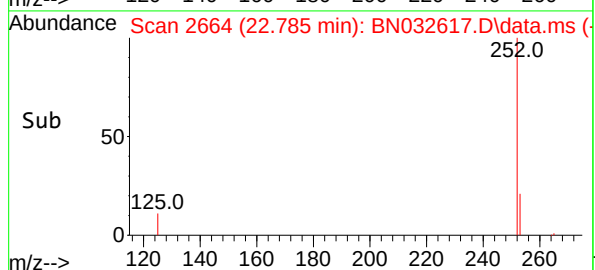
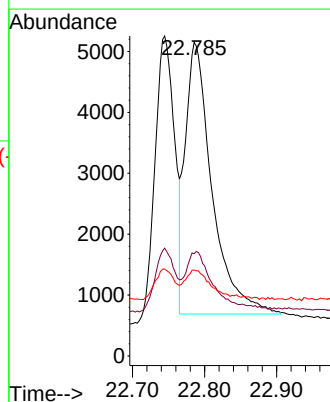
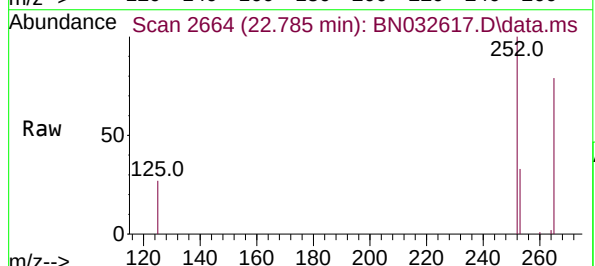
RT: 22.785 min Scan# 2664

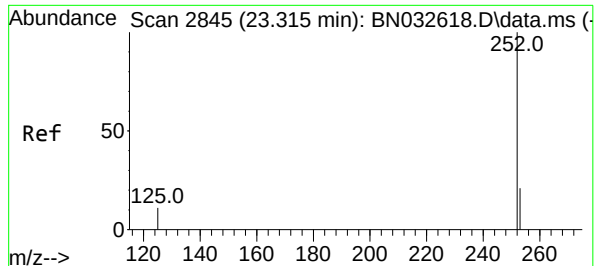
Delta R.T. 0.003 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:252	Resp:	11516
Ion Ratio	Lower	Upper
252	100	
253	32.6	22.6 34.0
125	27.4	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.182 ng

RT: 23.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

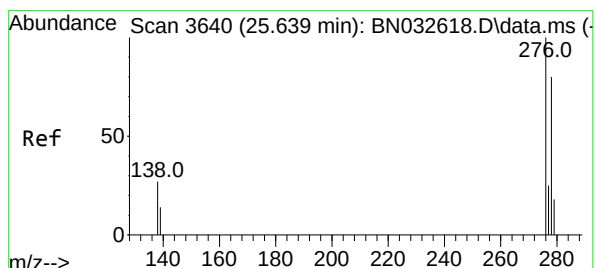
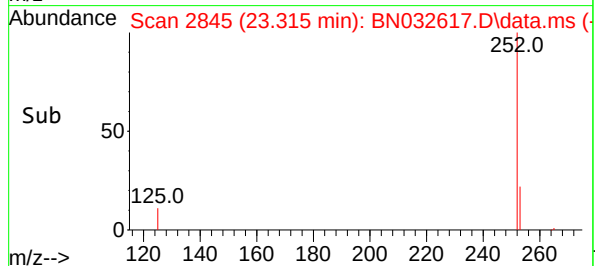
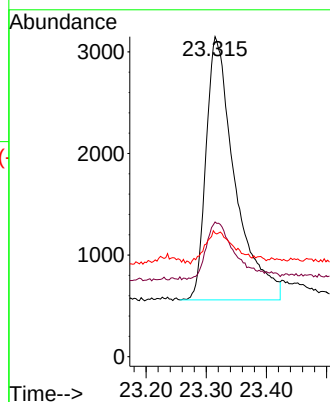
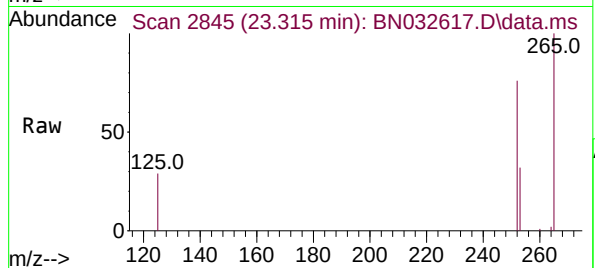
Tgt Ion:	252	Resp:	860
Ion Ratio	Lower	Upper	
252	100		
253	42.1	25.8	38.8
125	38.6	21.4	32.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.179 ng

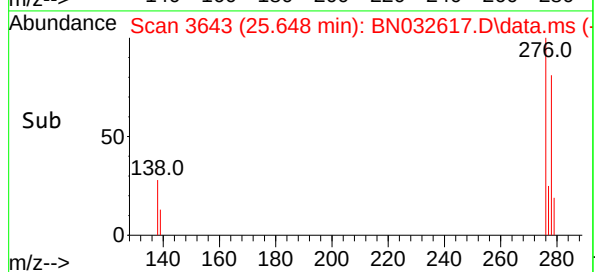
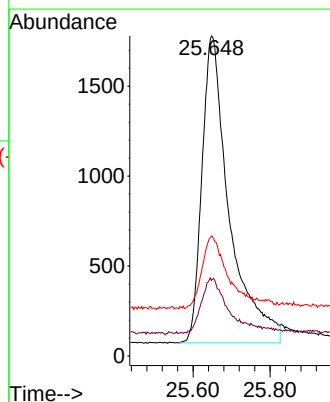
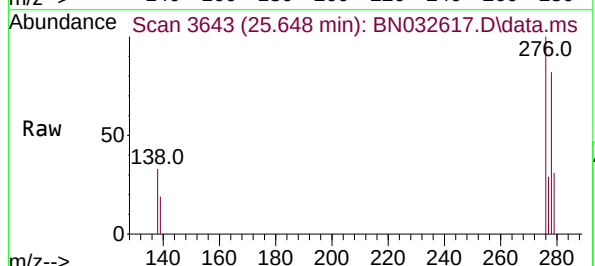
RT: 25.648 min Scan# 3643

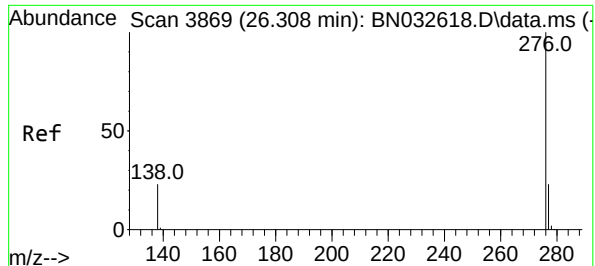
Delta R.T. 0.009 min

Lab File: BN032617.D

Acq: 10 Jul 2024 16:30

Tgt Ion:	278	Resp:	8413
Ion Ratio	Lower	Upper	
278	100		
139	23.6	16.7	25.1
279	37.5	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.187 ng

RT: 26.311 min Scan# 3869

Delta R.T. 0.003 min

Lab File: BN032617.D

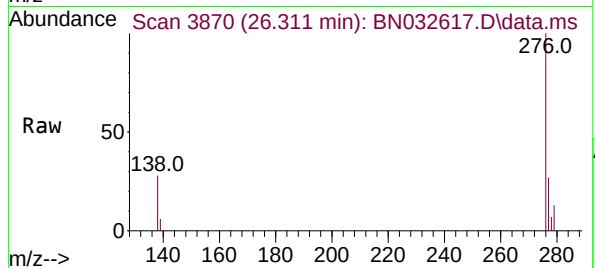
Acq: 10 Jul 2024 16:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 971

Ion Ratio Lower Upper

276 100

277 27.2 20.2 30.2

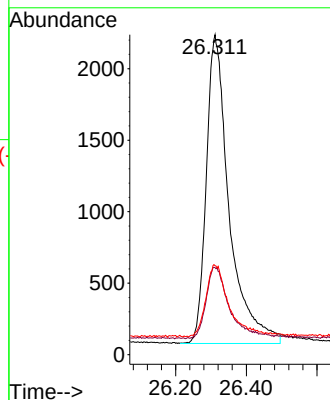
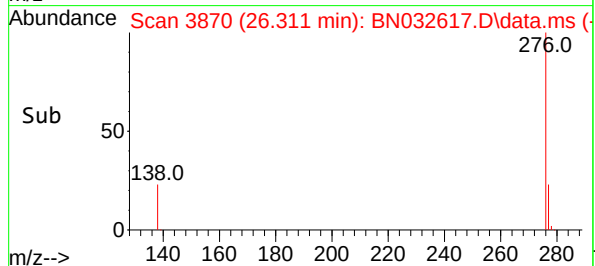
138 27.8 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032618.D
 Acq On : 10 Jul 2024 17:07
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:38:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4288	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	13064	0.400	ng	0.00
13) Acenaphthene-d10	14.210	164	8572	0.400	ng	0.00
19) Phenanthrene-d10	16.979	188	18433	0.400	ng	0.00
29) Chrysene-d12	21.193	240	13897	0.400	ng	0.00
35) Perylene-d12	23.402	264	13224	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.198	112	4452	0.410	ng	0.00
5) Phenol-d6	6.794	99	5394	0.401	ng	0.00
8) Nitrobenzene-d5	8.777	82	3803	0.387	ng	0.00
11) 2-Methylnaphthalene-d10	11.964	152	7803	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.738	330	1311	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.852	172	12732	0.399	ng	0.00
27) Fluoranthene-d10	19.021	212	18167	0.381	ng	0.00
31) Terphenyl-d14	19.630	244	11761	0.413	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.139	88	2122	0.399	ng	96
3) n-Nitrosodimethylamine	3.472	42	1806	0.402	ng	100
6) bis(2-Chloroethyl)ether	7.018	93	4542	0.403	ng	100
9) Naphthalene	10.400	128	14410	0.398	ng	100
10) Hexachlorobutadiene	10.645	225	2799	0.405	ng	# 100
12) 2-Methylnaphthalene	12.039	142	9112	0.385	ng	100
16) Acenaphthylene	13.932	152	12817	0.368	ng	100
17) Acenaphthene	14.274	154	9790	0.396	ng	100
18) Fluorene	15.279	166	13059	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.472	198	630	0.444	ng	100
21) 4-Bromophenyl-phenylether	16.172	248	4253	0.393	ng	100
22) Hexachlorobenzene	16.271	284	4764	0.393	ng	100
23) Atrazine	16.458	200	2857	0.358	ng	100
24) Pentachlorophenol	16.656	266	1497	0.332	ng	100
25) Phenanthrene	17.016	178	19494	0.387	ng	100
26) Anthracene	17.128	178	14546	0.351	ng	100
28) Fluoranthene	19.054	202	23033	0.378	ng	100
30) Pyrene	19.421	202	23516	0.414	ng	100
32) Benzo(a)anthracene	21.184	228	16645	0.379	ng	100
33) Chrysene	21.238	228	21522	0.412	ng	100
34) Bis(2-ethylhexyl)phtha...	21.086	149	8395	0.345	ng	100
36) Indeno(1,2,3-cd)pyrene	25.630	276	20282	0.389	ng	100
37) Benzo(b)fluoranthene	22.739	252	17364	0.377	ng	100
38) Benzo(k)fluoranthene	22.782	252	20987m	0.393	ng	
39) Benzo(a)pyrene	23.315	252	15908	0.383	ng	100
40) Dibenzo(a,h)anthracene	25.639	278	16066	0.390	ng	100
41) Benzo(g,h,i)perylene	26.308	276	18226	0.400	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032618.D
 Acq On : 10 Jul 2024 17:07
 Operator : MA/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Quant Time: Jul 10 23:38:27 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

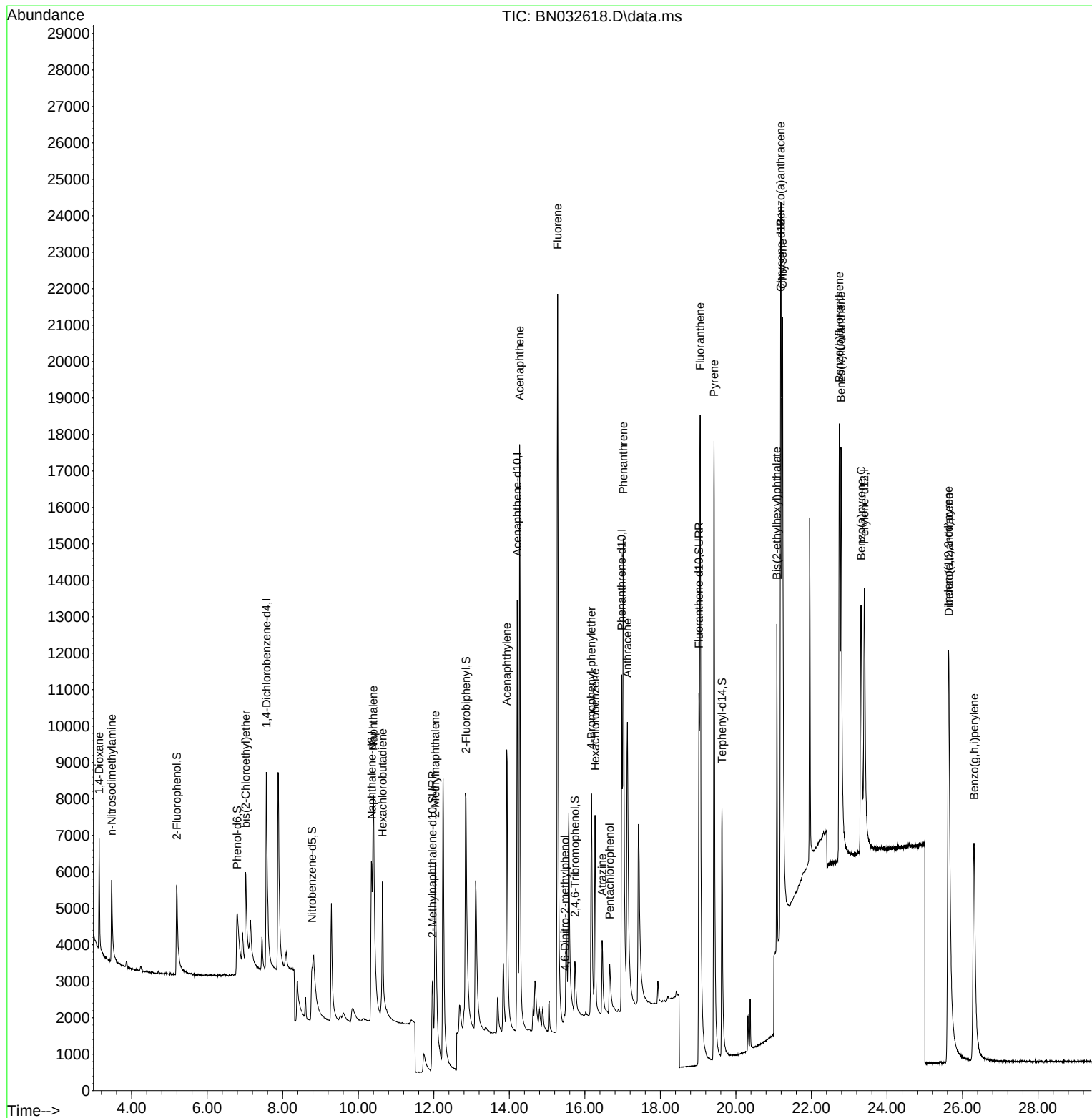
Response via : Initial Calibration

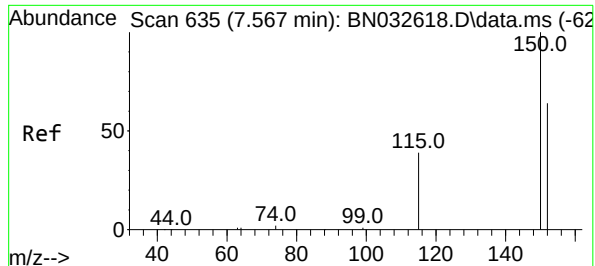
Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

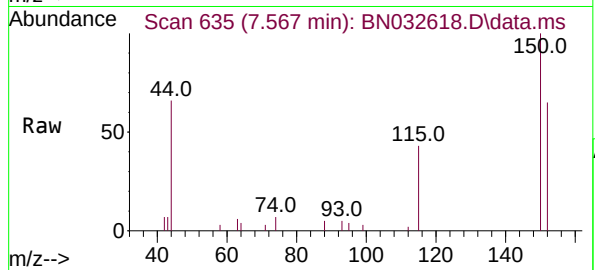
Supervised By :mohammad ahmed 07/11/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

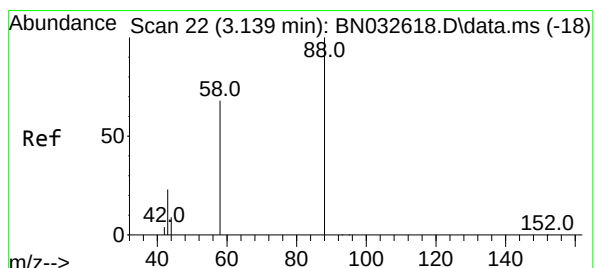
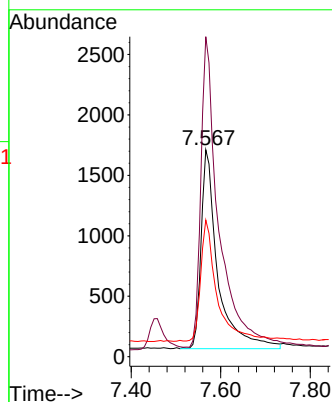
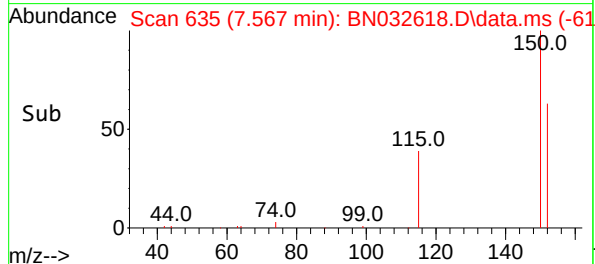
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 428
Ion Ratio Lower Upper
152 100
150 154.7 123.8 185.6
115 66.0 52.8 79.2

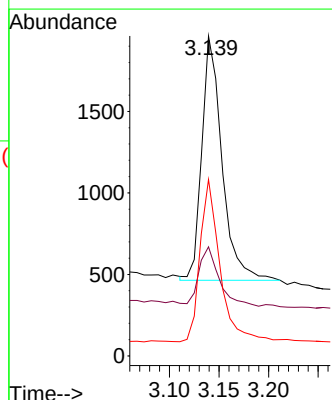
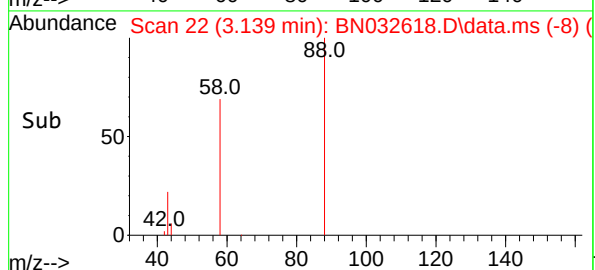
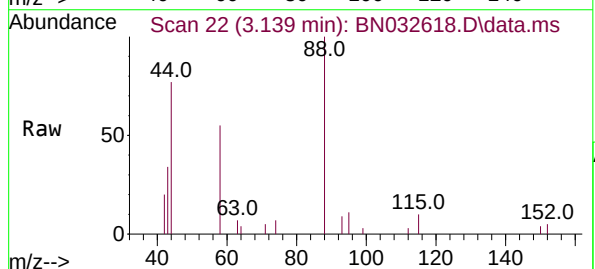
Manual Integrations
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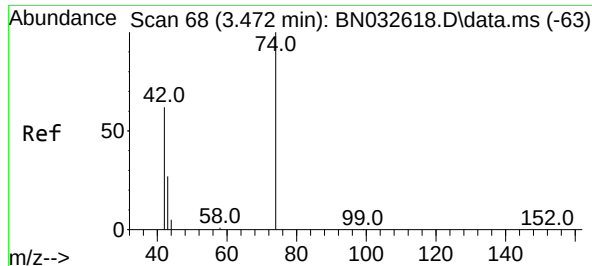
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.399 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion: 88 Resp: 2122
Ion Ratio Lower Upper
88 100
43 24.6 18.4 27.6
58 65.2 49.2 73.8





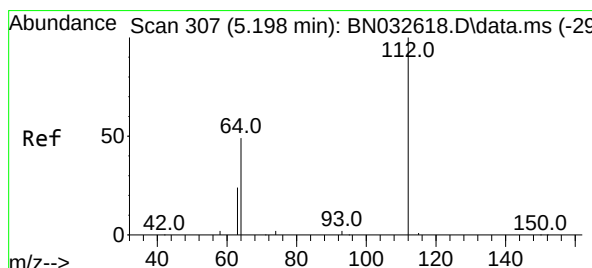
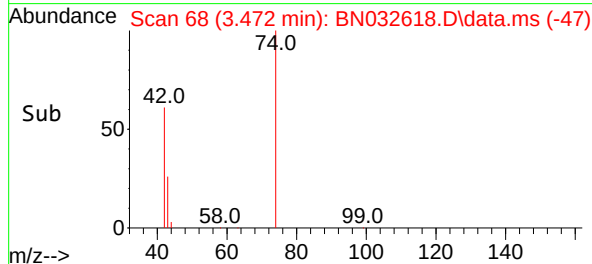
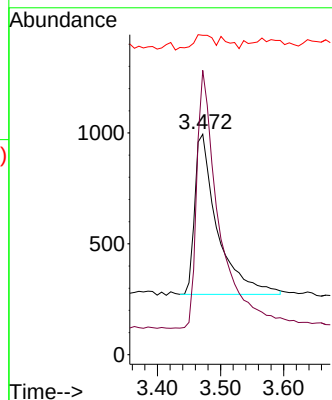
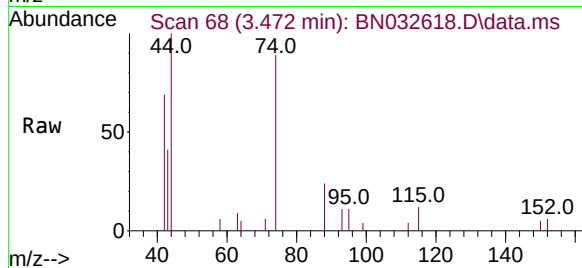
#3
n-Nitrosodimethylamine
Concen: 0.402 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 1800
Ion Ratio Lower Upper
42 100
74 158.6 126.9 190.3
44 6.0 4.8 7.2

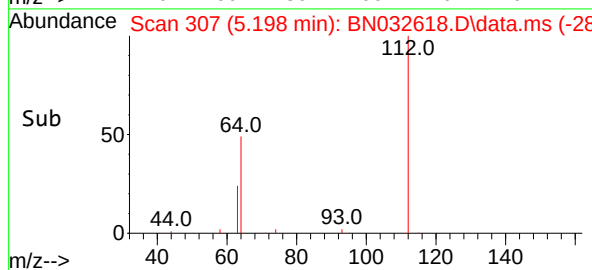
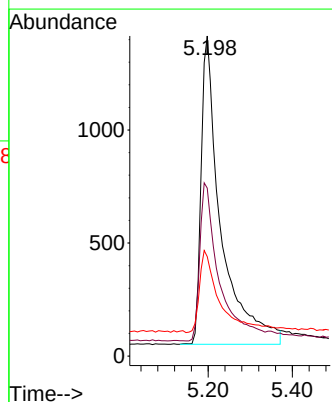
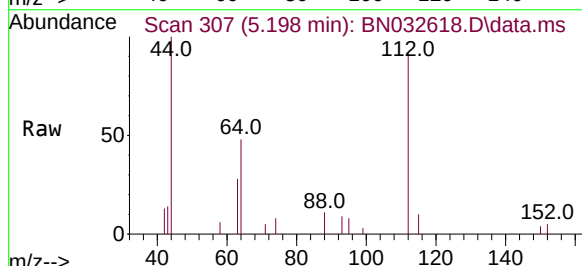
Manual Integrations
APPROVED

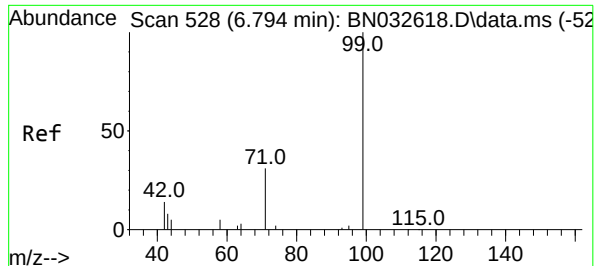
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.410 ng
RT: 5.198 min Scan# 307
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:112 Resp: 4452
Ion Ratio Lower Upper
112 100
64 50.3 40.2 60.4
63 27.8 22.2 33.4





#5

Phenol-d6

Concen: 0.401 ng

RT: 6.794 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

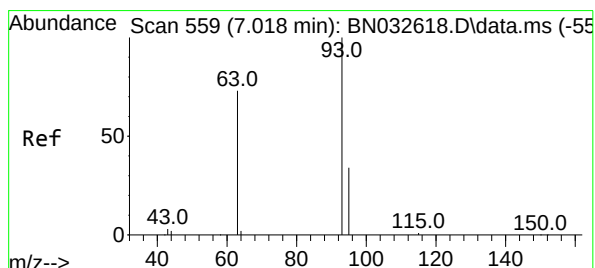
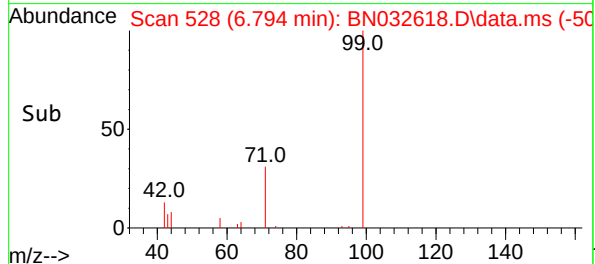
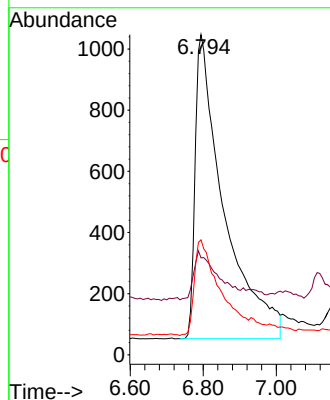
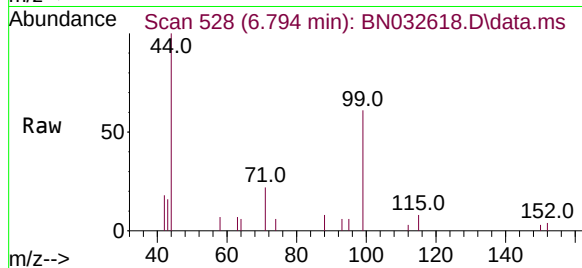
SSTDICCC0.4

Tgt Ion:	99	Resp:	5394
Ion	Ratio	Lower	Upper
99	100		
42	13.3	10.5	15.7
71	28.3	22.3	33.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.403 ng

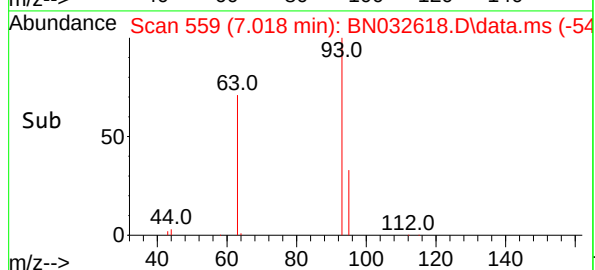
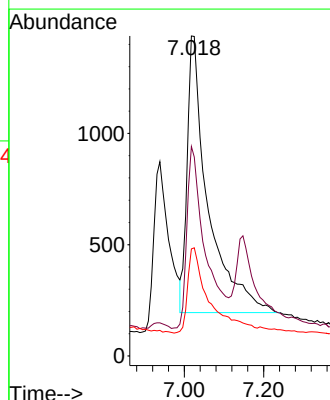
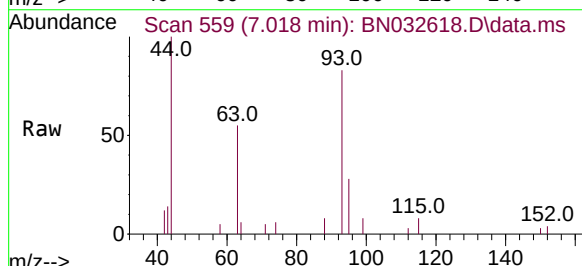
RT: 7.018 min Scan# 559

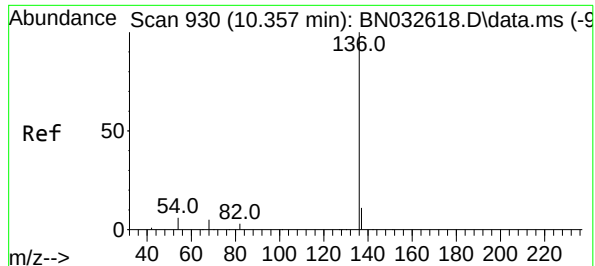
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	93	Resp:	4542
Ion	Ratio	Lower	Upper
93	100		
63	58.0	46.4	69.6
95	31.9	25.5	38.3





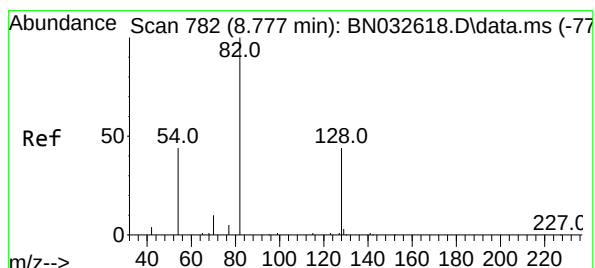
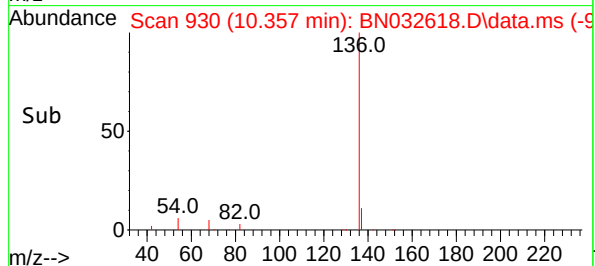
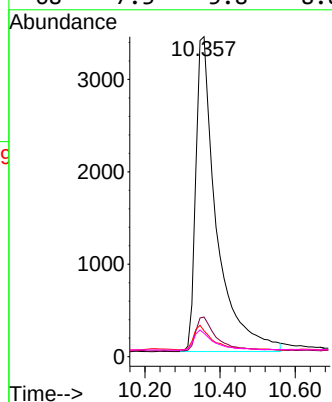
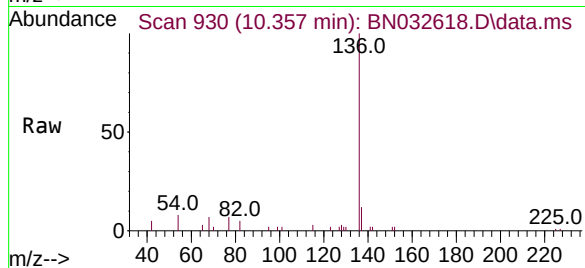
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:	136	Resp:	13064
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.9	14.9
54	8.1	6.5	9.7
68	7.3	5.8	8.8

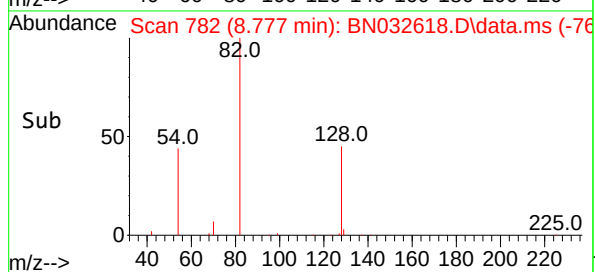
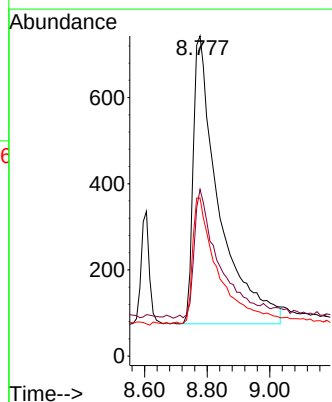
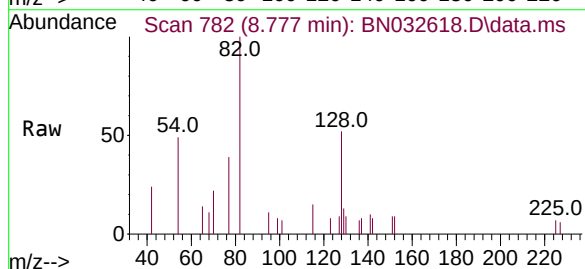
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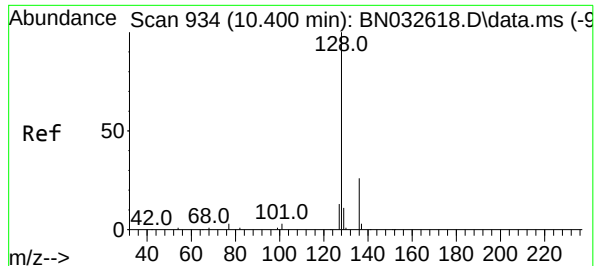
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.777 min Scan# 782
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:	82	Resp:	3803
Ion	Ratio	Lower	Upper
82	100		
128	52.1	41.7	62.5
54	49.4	39.5	59.3





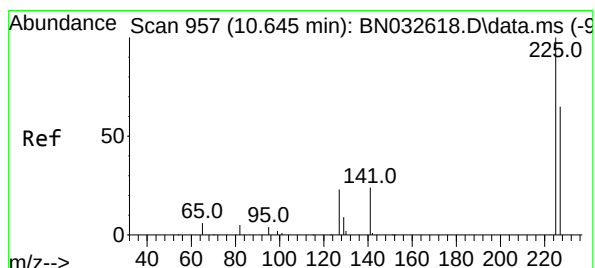
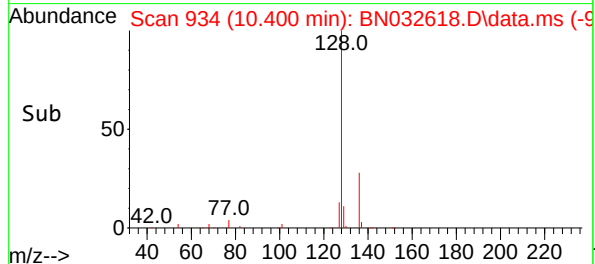
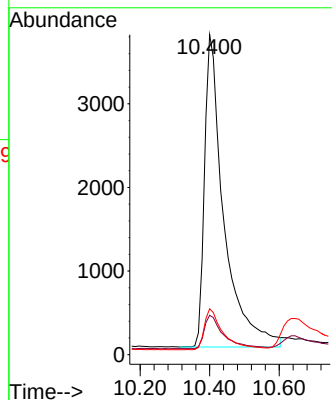
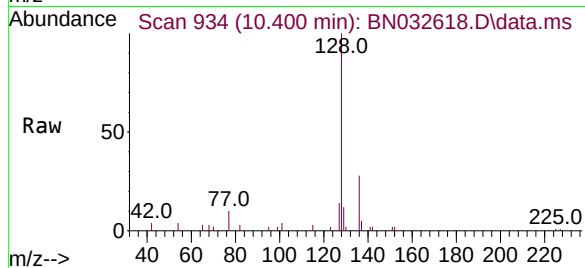
#9
Naphthalene
Concen: 0.398 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 14410
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.8
127 14.4 11.5 17.3

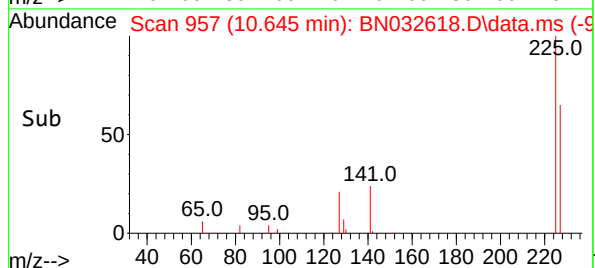
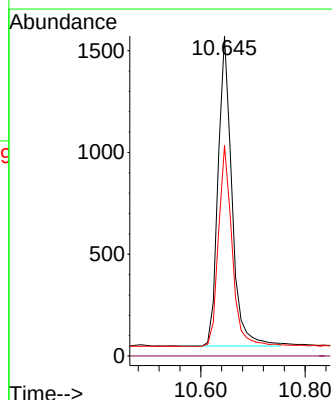
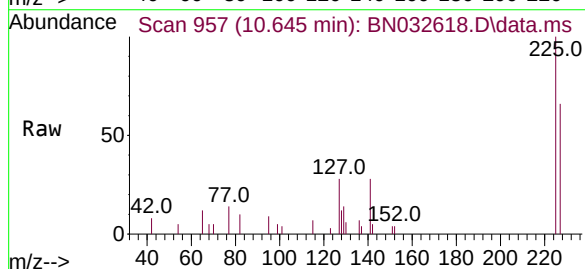
Manual Integrations
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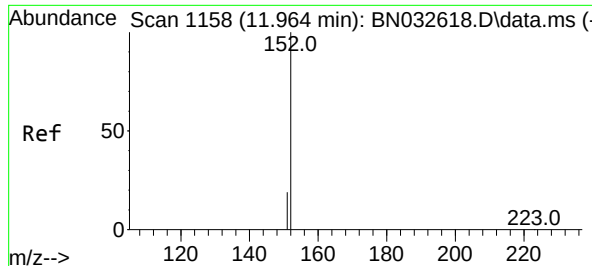
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

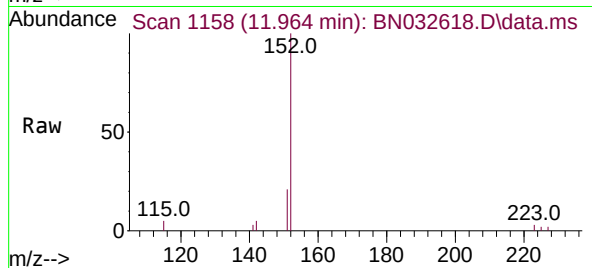
Tgt Ion:225 Resp: 2799
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 11.964 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

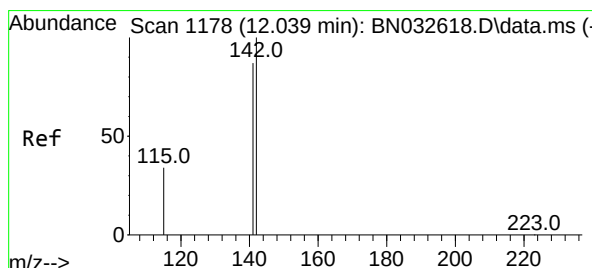
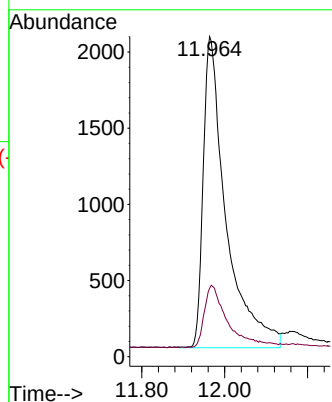
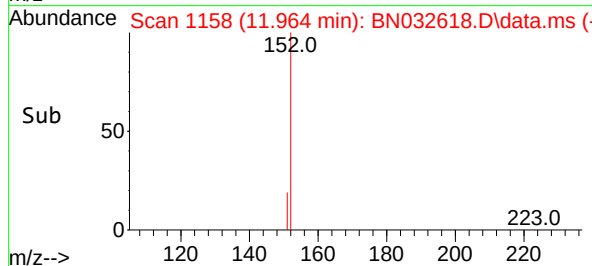
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 780
Ion Ratio Lower Upper
152 100
151 20.2 16.2 24.2

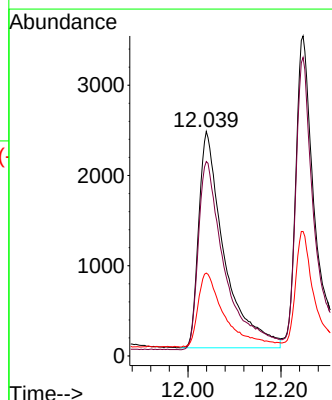
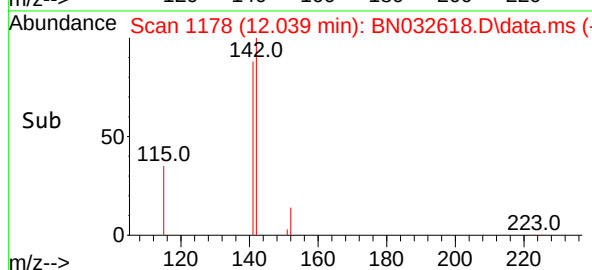
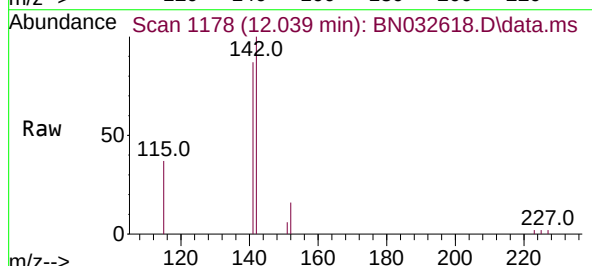
Manual Integrations
APPROVED

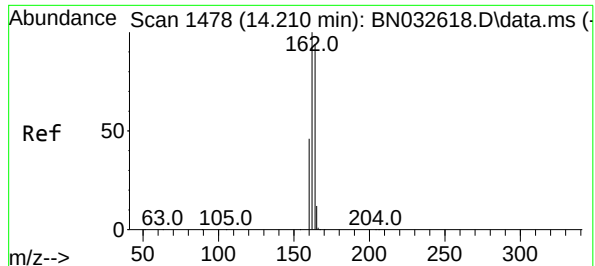
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.039 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

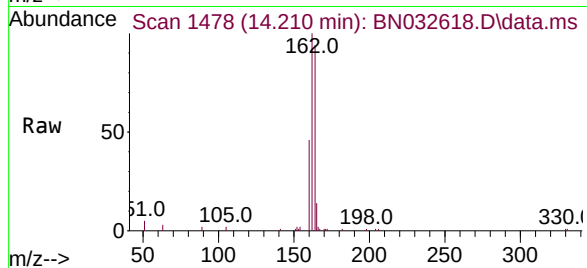
Tgt Ion:142 Resp: 9112
Ion Ratio Lower Upper
142 100
141 86.6 69.3 103.9
115 36.9 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

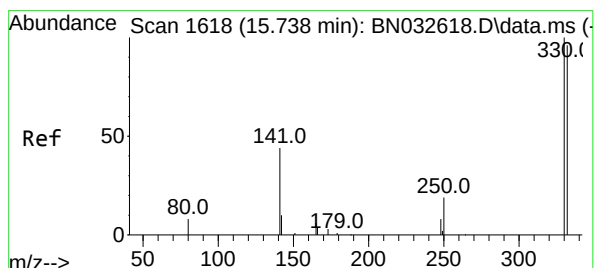
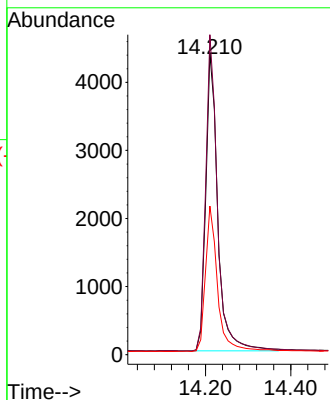
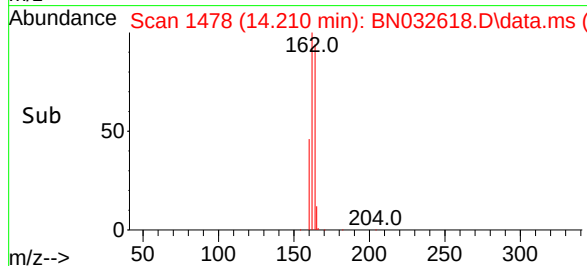
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



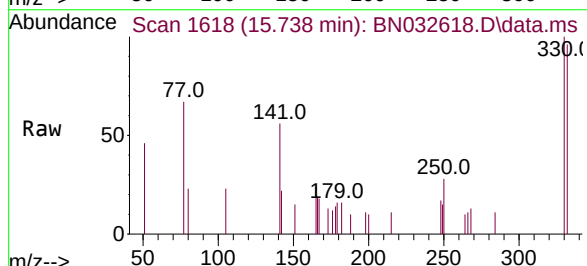
Tgt Ion:164 Resp: 857
Ion Ratio Lower Upper
164 100
162 106.2 85.0 127.4
160 49.3 39.4 59.2

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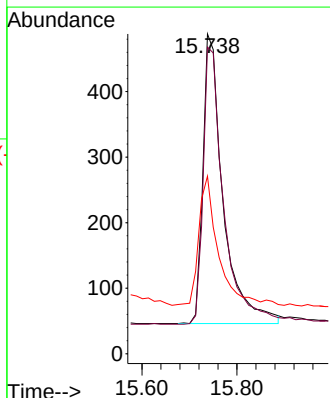
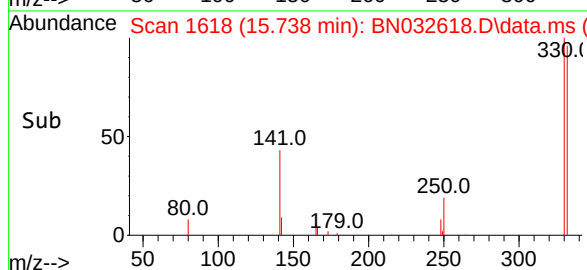
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

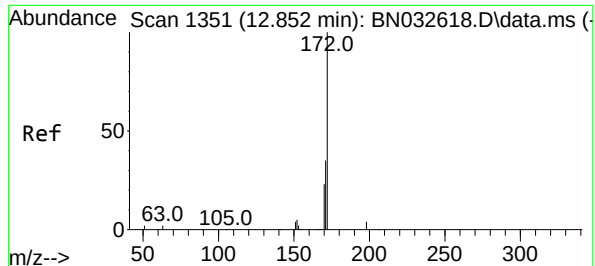


#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.738 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07



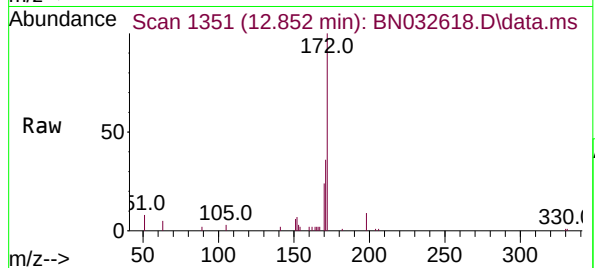
Tgt Ion:330 Resp: 1311
Ion Ratio Lower Upper
330 100
332 97.3 77.8 116.8
141 42.7 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.852 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

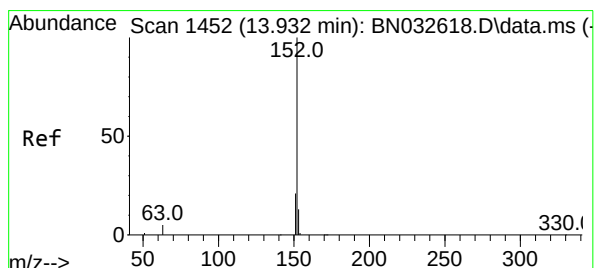
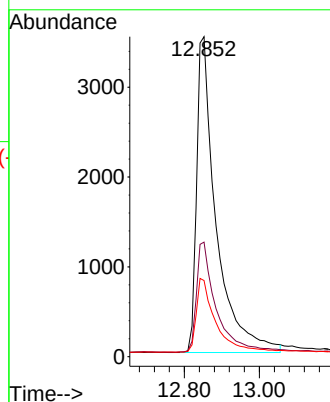
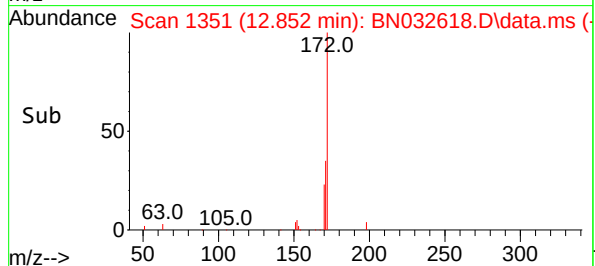
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:172 Resp: 1273
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 23.8 19.0 28.6

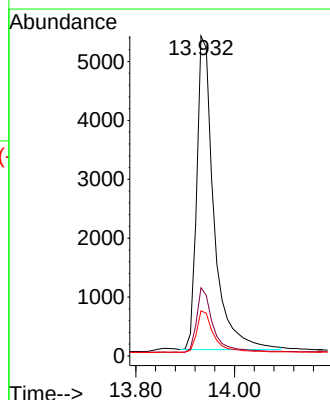
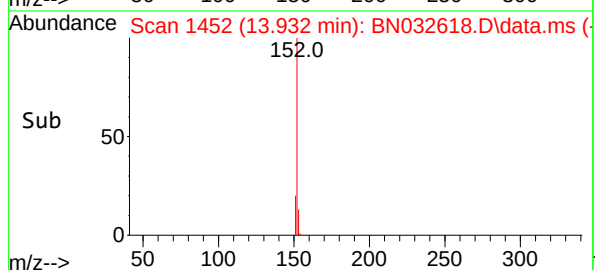
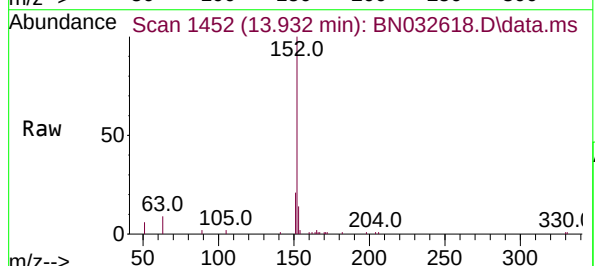
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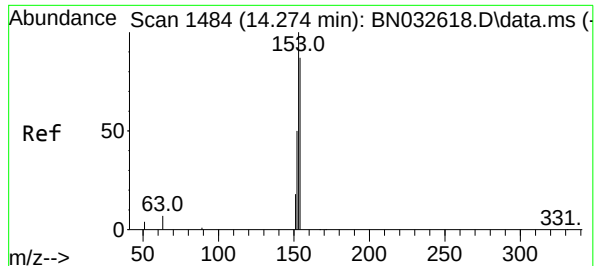
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.368 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

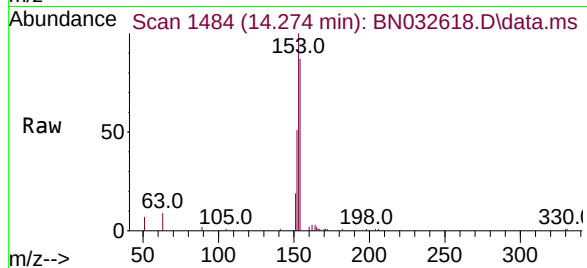
Tgt Ion:152 Resp: 12817
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.2 10.6 15.8





#17
Acenaphthene
Concen: 0.396 ng
RT: 14.274 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

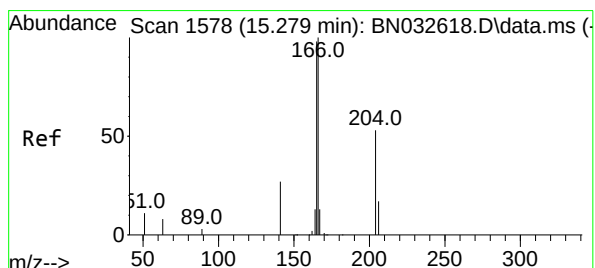
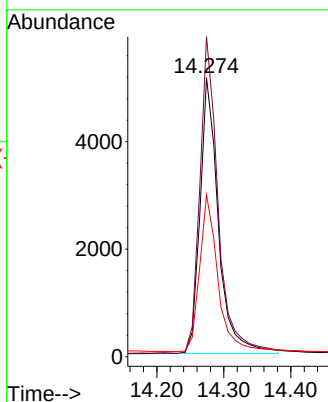
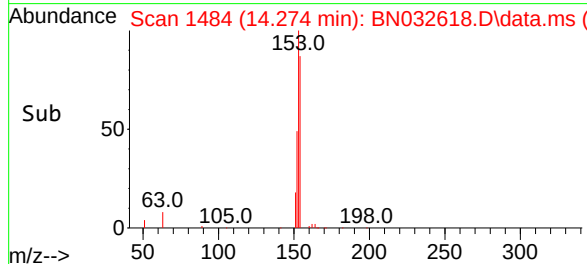
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:154 Resp: 9790
Ion Ratio Lower Upper
154 100
153 114.8 91.8 137.8
152 56.5 45.2 67.8

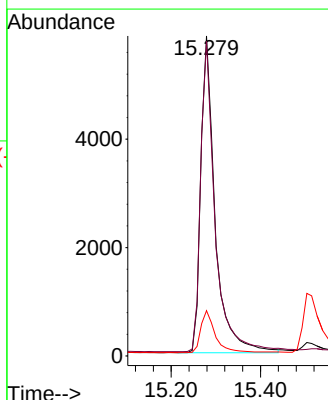
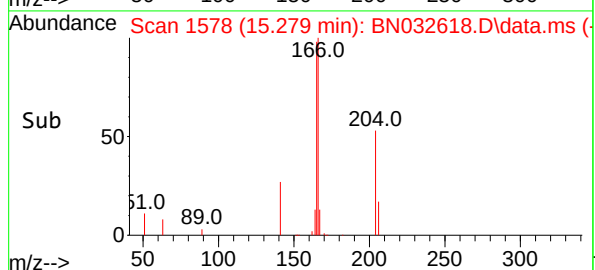
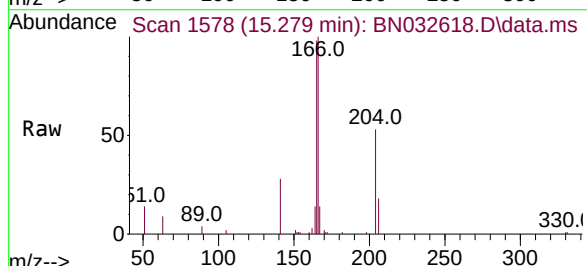
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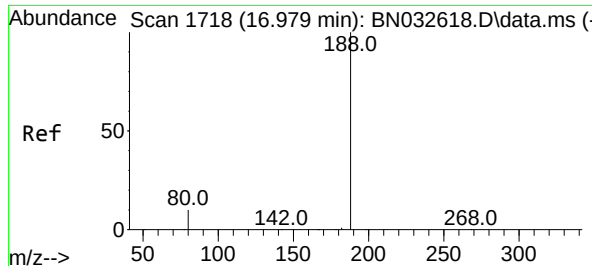
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.395 ng
RT: 15.279 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:166 Resp: 13059
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.979 min Scan# 1718

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

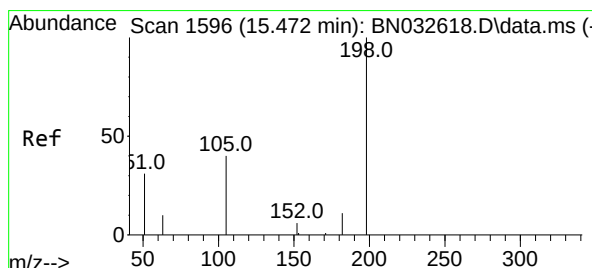
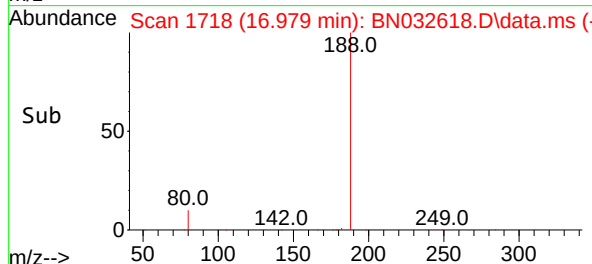
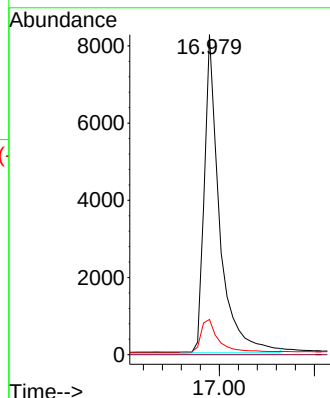
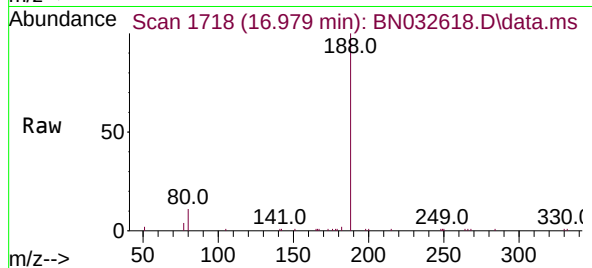
SSTDICCC0.4

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.444 ng

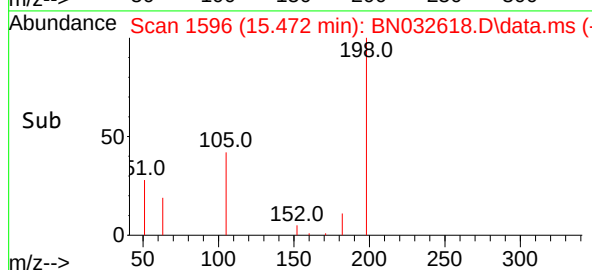
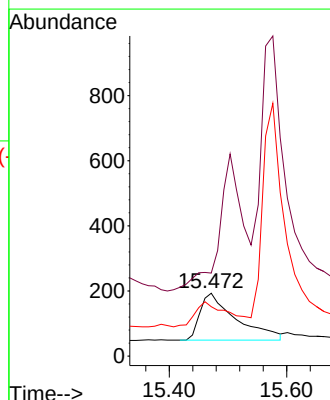
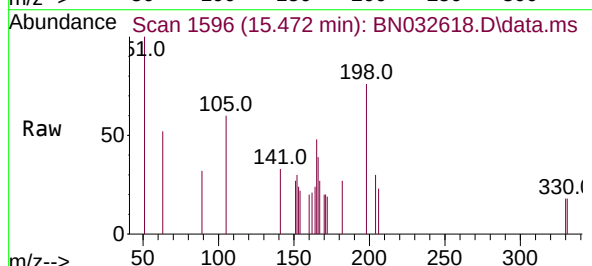
RT: 15.472 min Scan# 1596

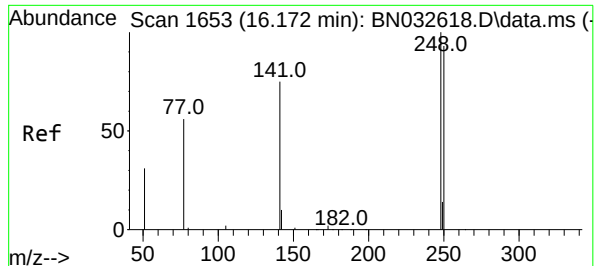
Delta R.T. -0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion	Ratio	Lower	Upper
198	100		
51	132.1	105.7	158.5
105	78.8	63.0	94.6





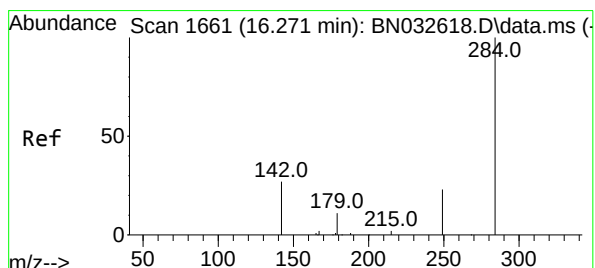
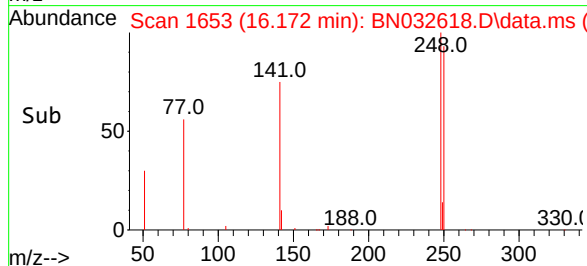
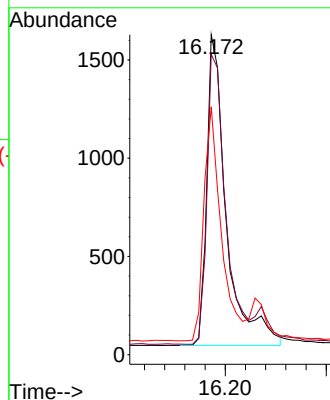
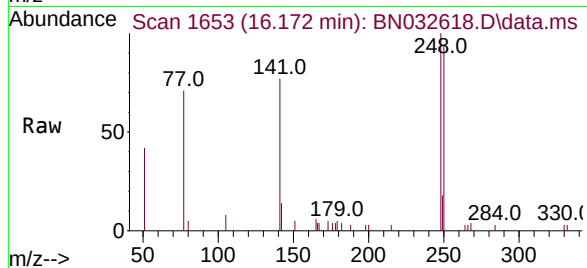
#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.172 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 425
Ion Ratio Lower Upper
248 100
250 93.9 75.1 112.7
141 77.5 62.0 93.0

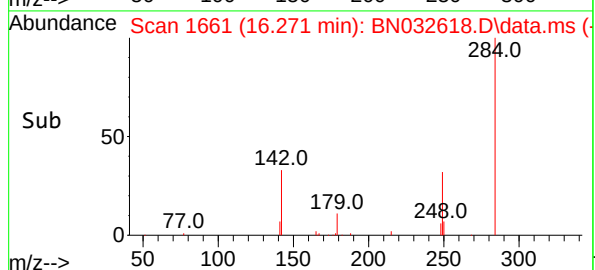
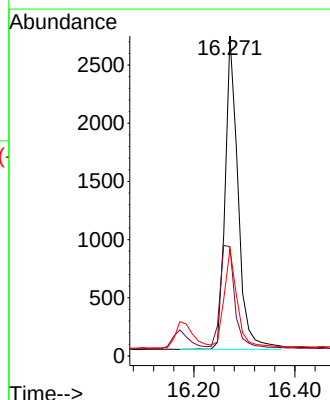
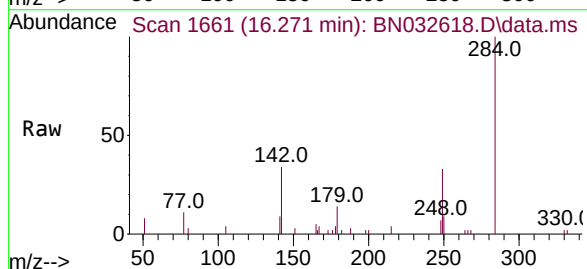
Manual Integrations
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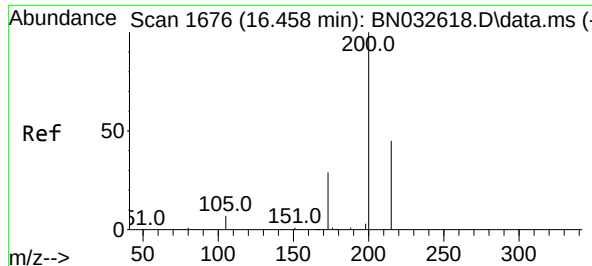
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.271 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:284 Resp: 4764
Ion Ratio Lower Upper
284 100
142 36.7 29.4 44.0
249 30.7 24.6 36.8





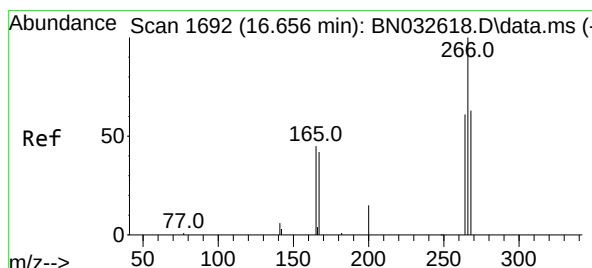
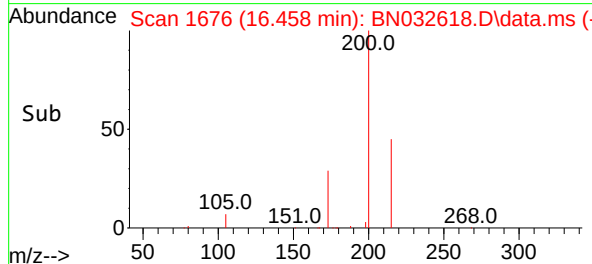
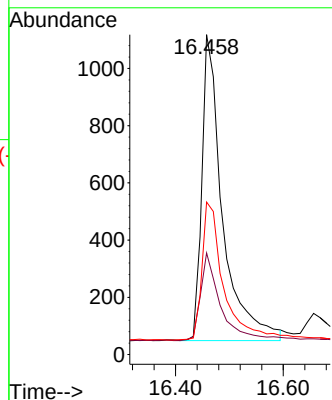
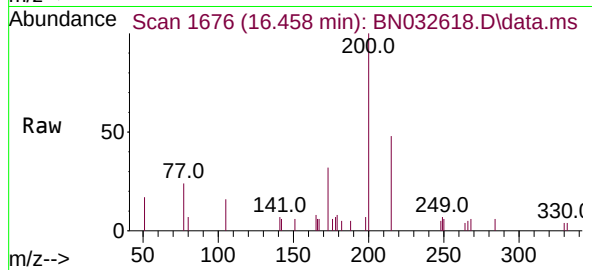
#23
Atrazine
Concen: 0.358 ng
RT: 16.458 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 285
Ion Ratio Lower Upper
200 100
173 31.8 25.4 38.2
215 47.7 38.2 57.2

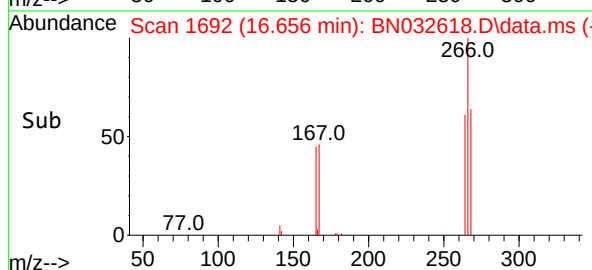
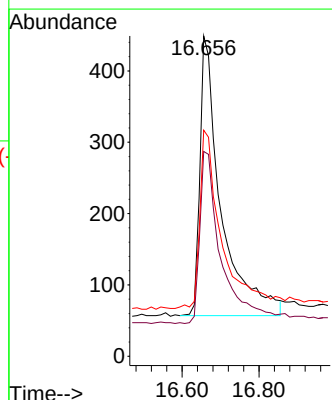
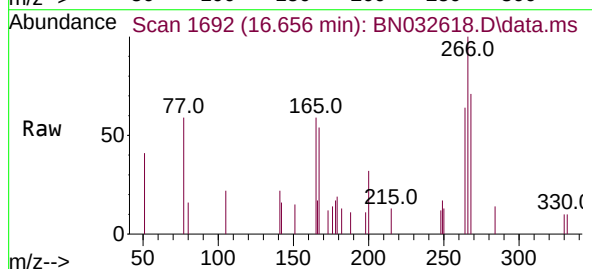
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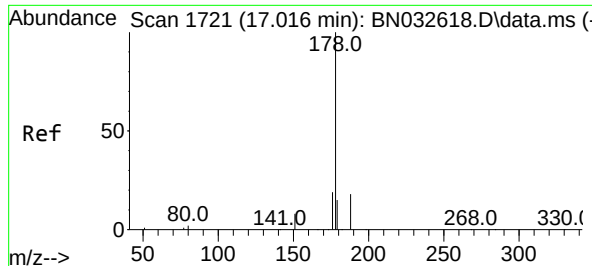
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.332 ng
RT: 16.656 min Scan# 1692
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:266 Resp: 1497
Ion Ratio Lower Upper
266 100
264 62.6 50.2 75.2
268 66.1 52.8 79.2





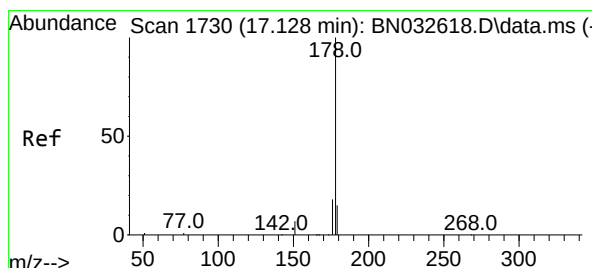
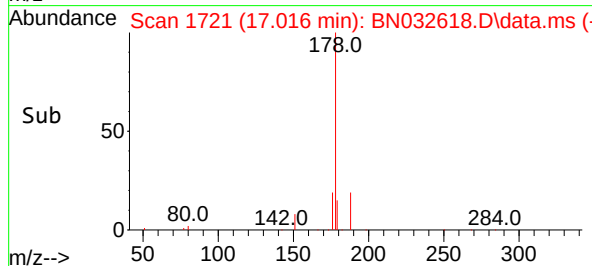
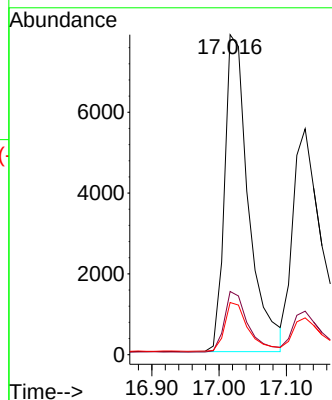
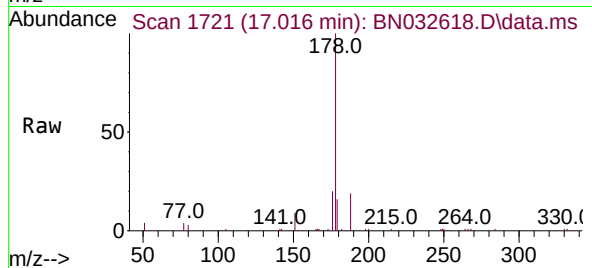
#25
Phenanthrene
Concen: 0.387 ng
RT: 17.016 min Scan# 1721
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 19494
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.3 12.2 18.4

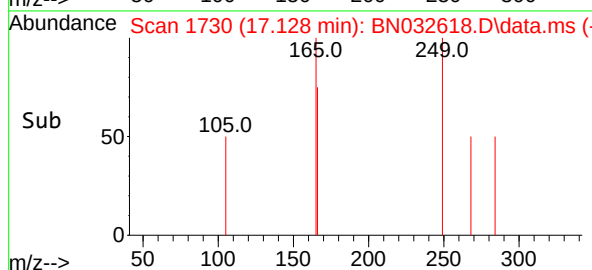
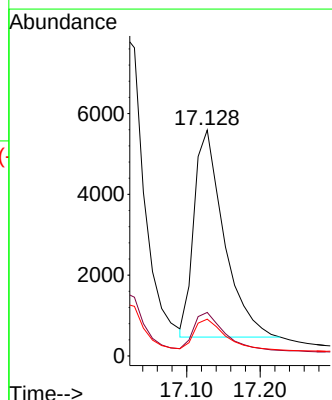
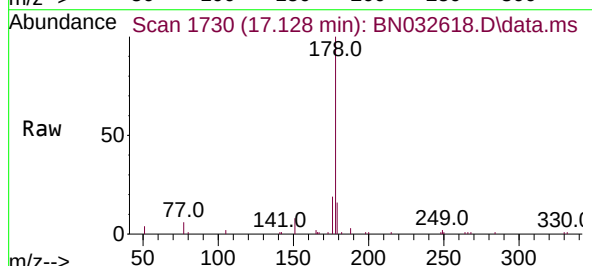
Manual Integrations
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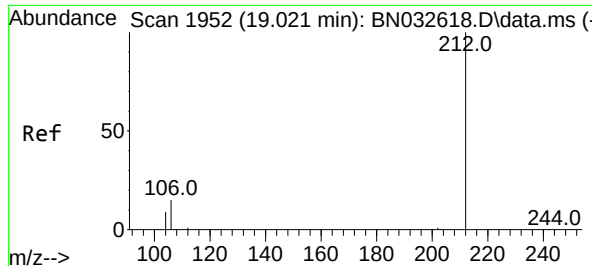
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.351 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:178 Resp: 14546
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.381 ng

RT: 19.021 min Scan# 1952

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

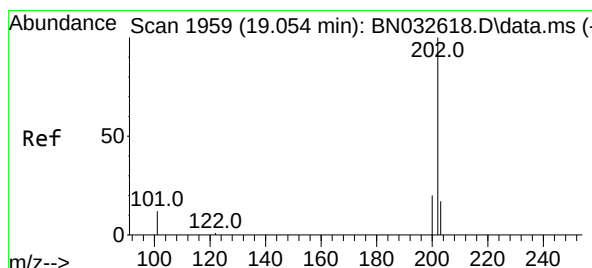
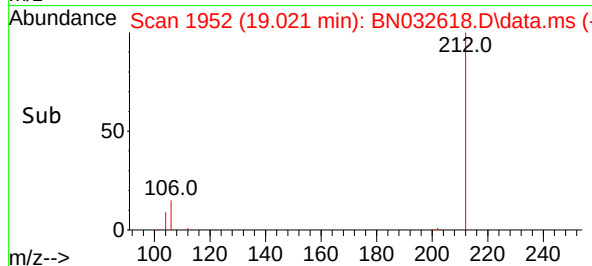
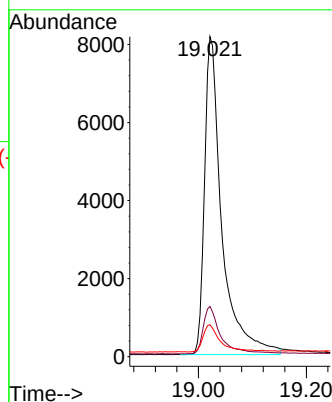
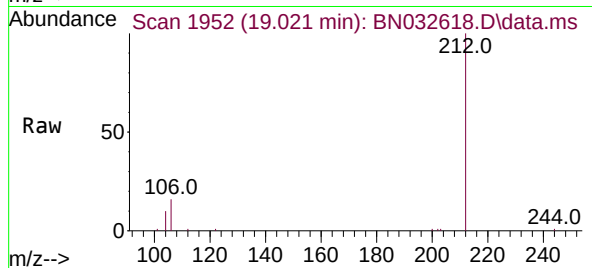
SSTDICCC0.4

Tgt Ion:	212	Resp:	1816
Ion Ratio	Lower	Upper	
212	100		
106	14.9	11.9	17.9
104	8.6	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.378 ng

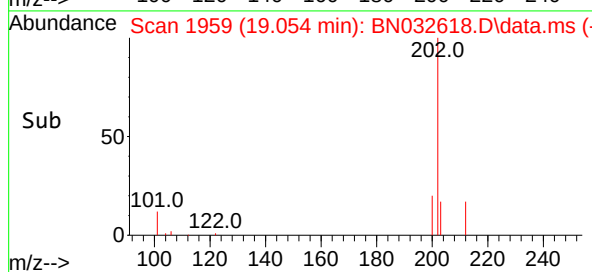
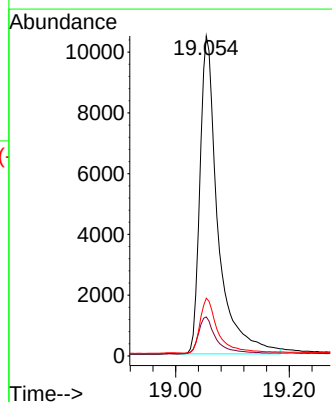
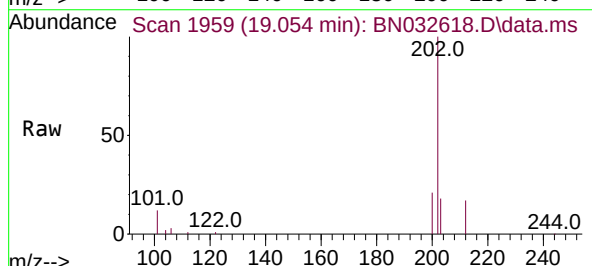
RT: 19.054 min Scan# 1959

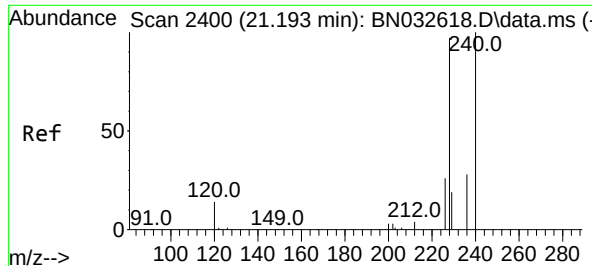
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	202	Resp:	23033
Ion Ratio	Lower	Upper	
202	100		
101	12.0	9.6	14.4
203	17.2	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.193 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

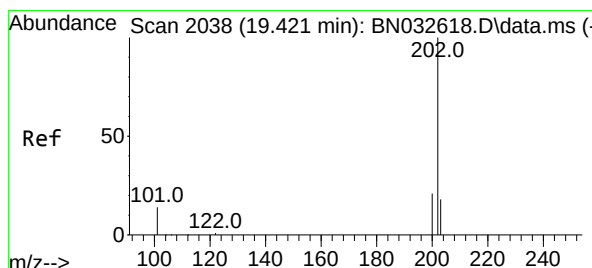
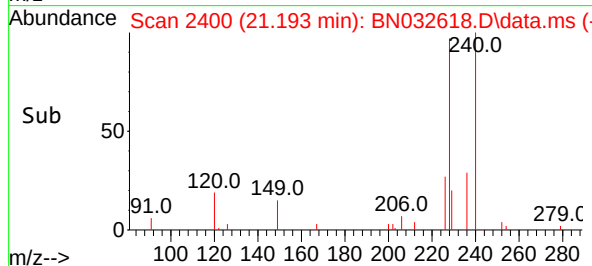
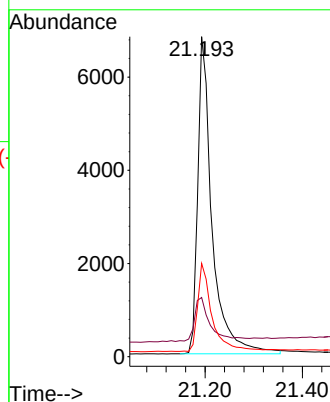
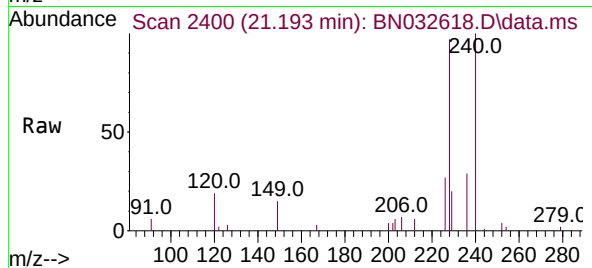
SSTDICCC0.4

Tgt Ion:	240	Resp:	1389
Ion Ratio	Lower	Upper	
240	100		
120	18.5	14.8	22.2
236	29.1	23.3	34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.414 ng

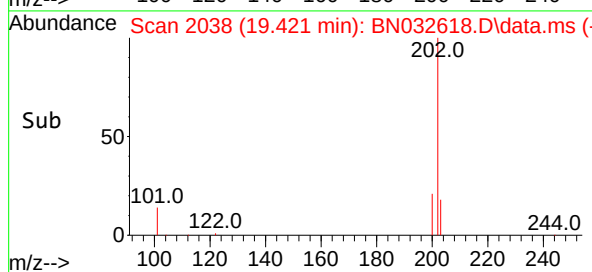
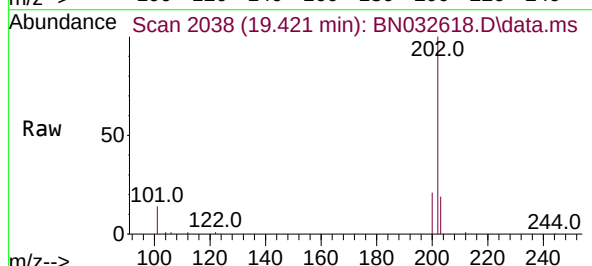
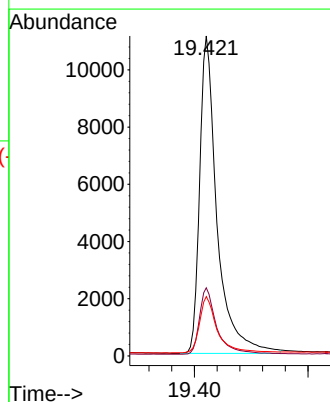
RT: 19.421 min Scan# 2038

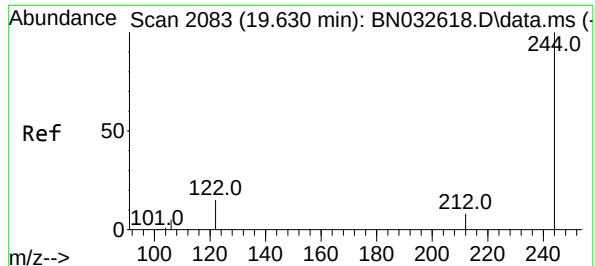
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

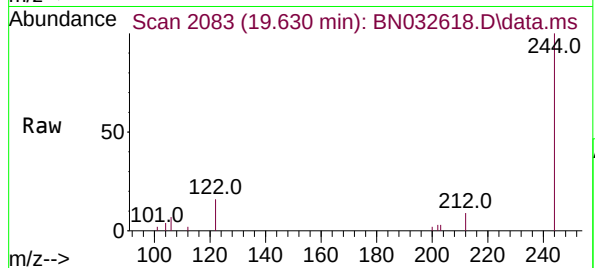
Tgt Ion:	202	Resp:	23516
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	18.4	14.8	22.2





#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.630 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

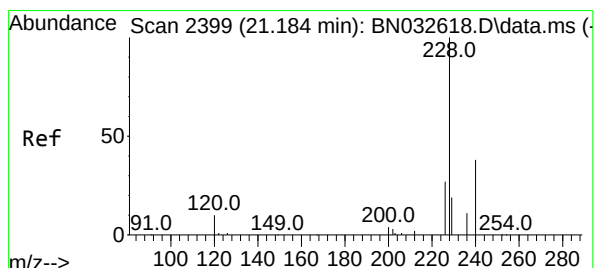
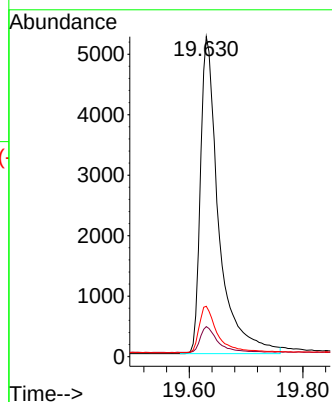
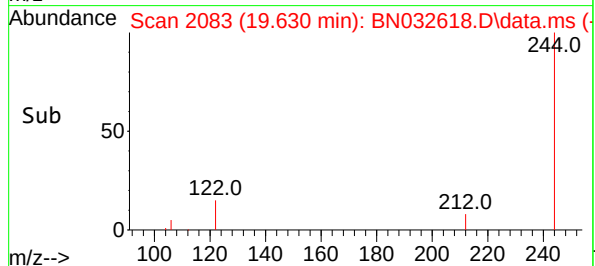
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:244 Resp: 1176
Ion Ratio Lower Upper
244 100
212 9.4 7.5 11.3
122 15.8 12.6 19.0

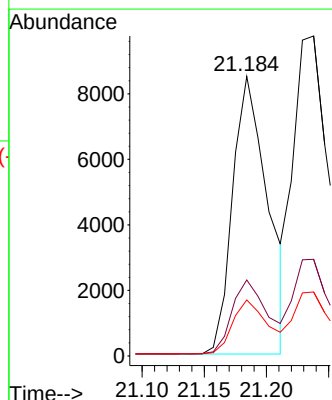
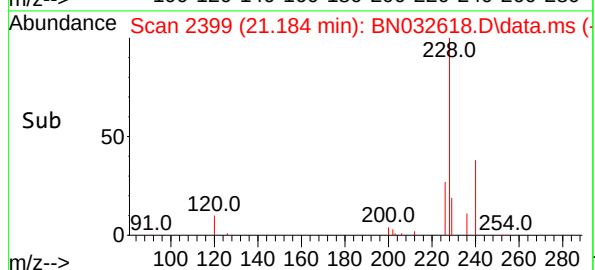
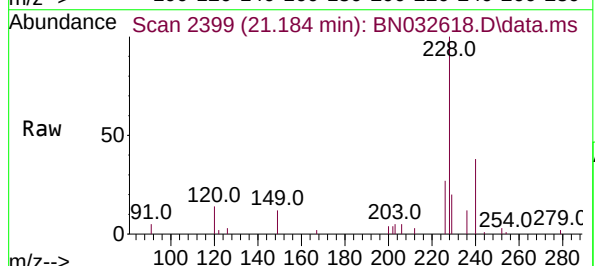
Manual Integrations
APPROVED

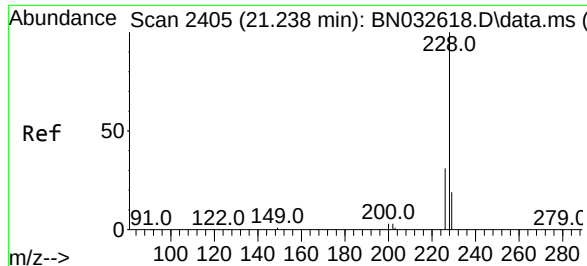
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.379 ng
RT: 21.184 min Scan# 2399
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Tgt Ion:228 Resp: 16645
Ion Ratio Lower Upper
228 100
226 27.2 21.8 32.6
229 20.0 16.0 24.0





#33

Chrysene

Concen: 0.412 ng

RT: 21.238 min Scan# 2405

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

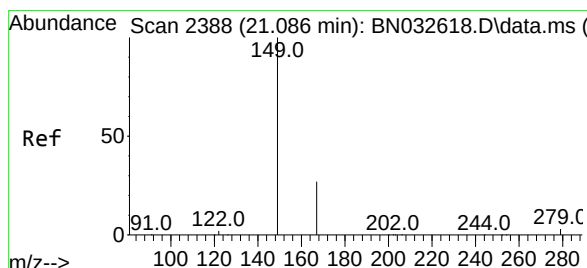
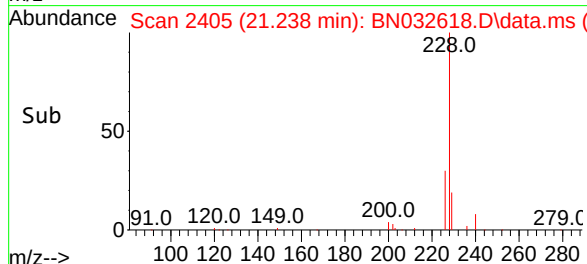
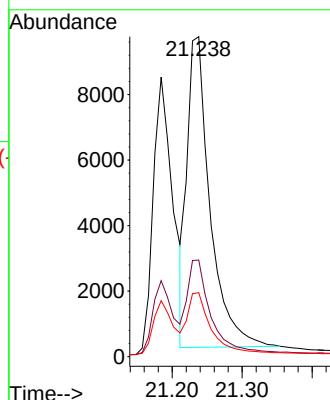
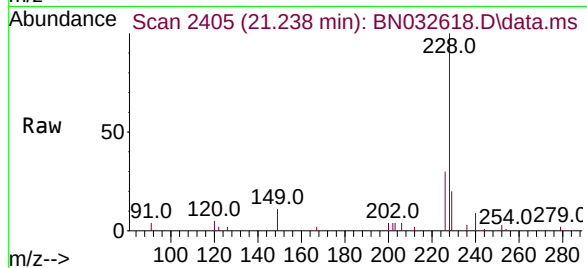
SSTDICCC0.4

Tgt Ion:	228	Resp:	2152
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.2	36.2
229	20.0	16.0	24.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.345 ng

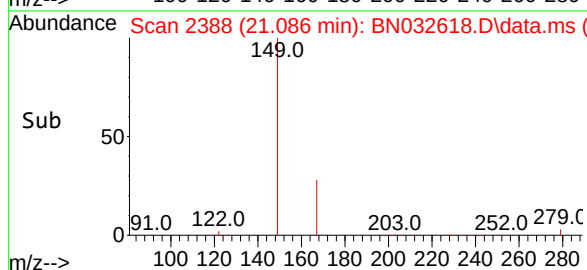
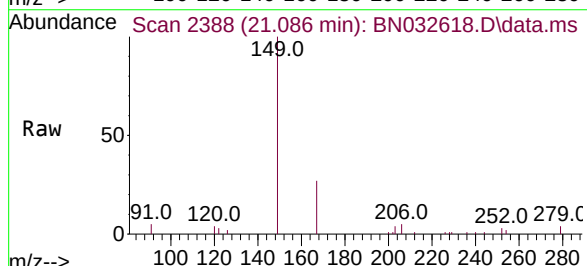
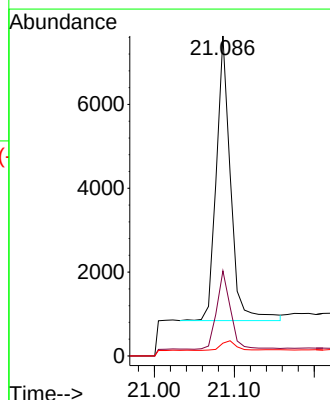
RT: 21.086 min Scan# 2388

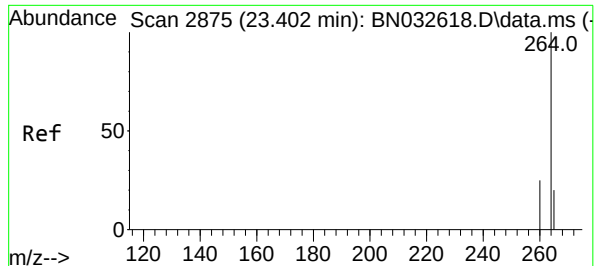
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	149	Resp:	8395
Ion Ratio	Lower	Upper	
149	100		
167	26.8	21.4	32.2
279	3.5	2.8	4.2





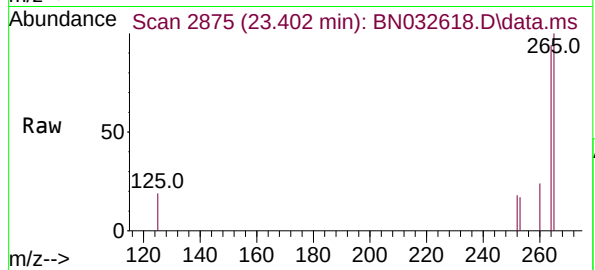
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.402 min Scan# 2875
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

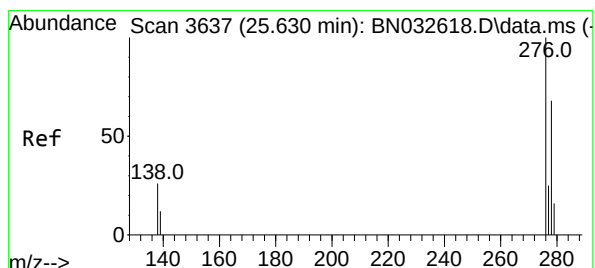
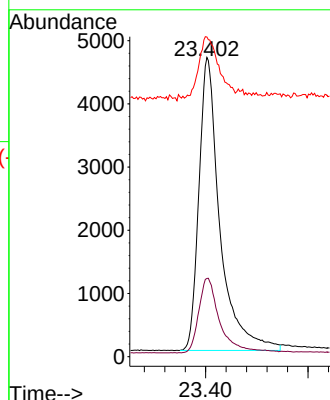
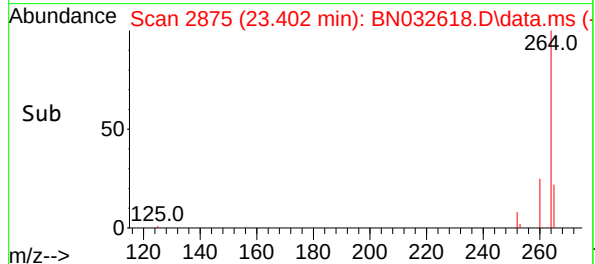
SSTDICCC0.4



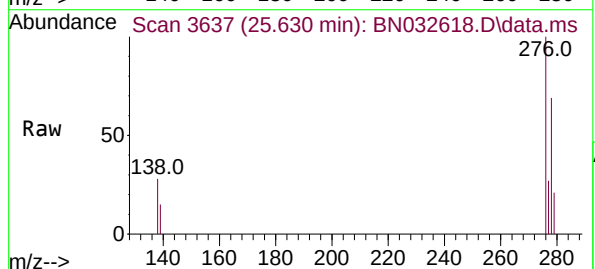
Tgt Ion:264 Resp: 13224
Ion Ratio Lower Upper
264 100
260 26.1 20.9 31.3
265 106.8 85.4 128.2

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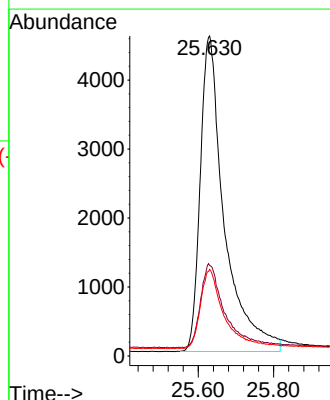
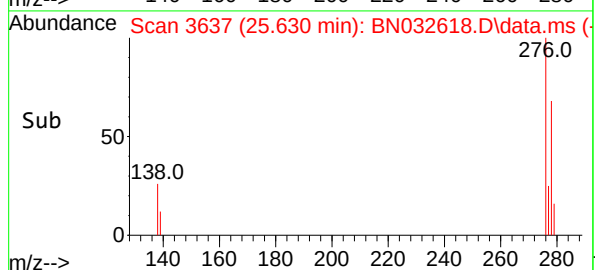
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

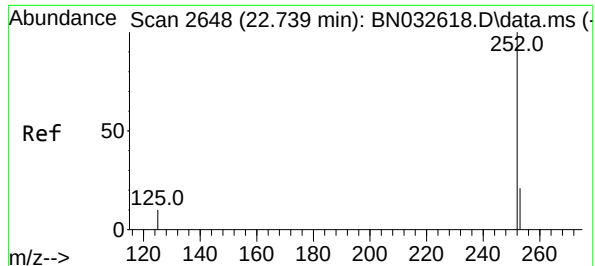


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.389 ng
RT: 25.630 min Scan# 3637
Delta R.T. 0.000 min
Lab File: BN032618.D
Acq: 10 Jul 2024 17:07



Tgt Ion:276 Resp: 20282
Ion Ratio Lower Upper
276 100
138 26.4 21.0 31.4
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.739 min Scan# 2648

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

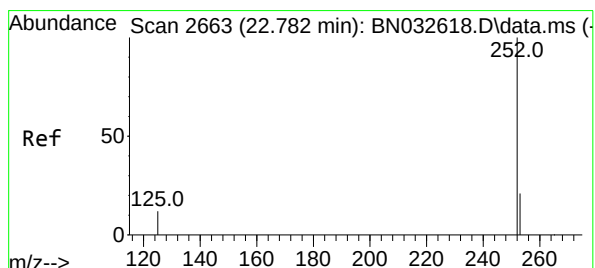
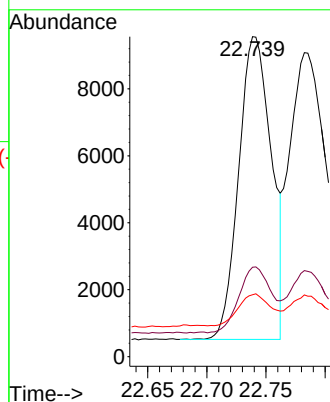
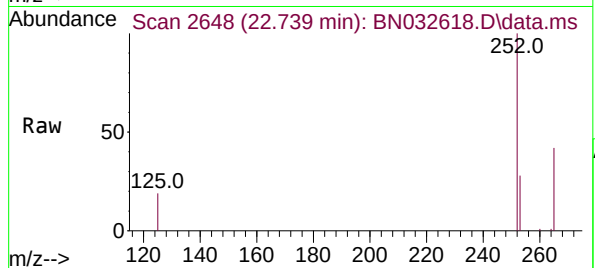
Tgt Ion:252	Resp:	17364
Ion Ratio	Lower	Upper
252	100	
253	27.9	22.3 33.5
125	19.3	15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.393 ng m

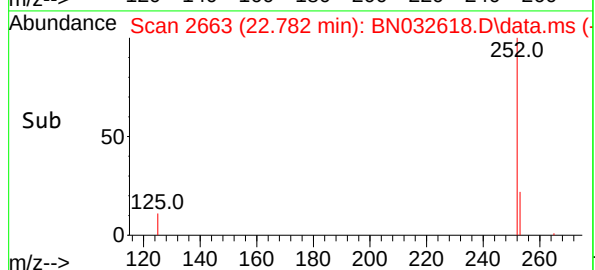
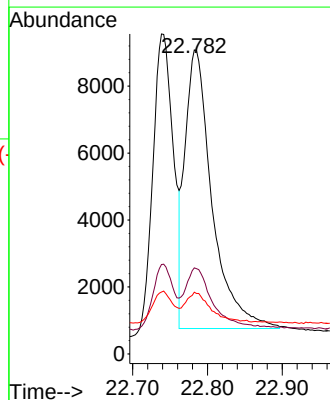
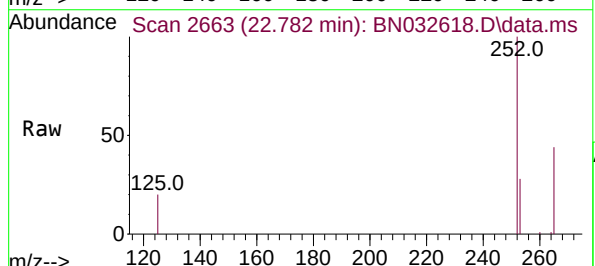
RT: 22.782 min Scan# 2663

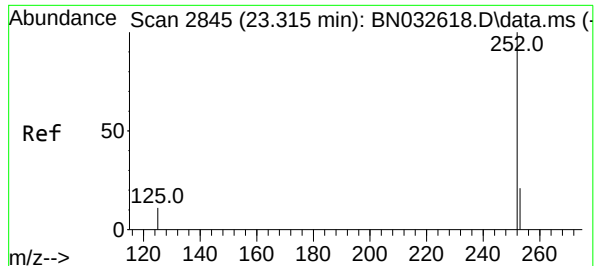
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:252	Resp:	20987
Ion Ratio	Lower	Upper
252	100	
253	28.3	22.6 34.0
125	20.3	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.315 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

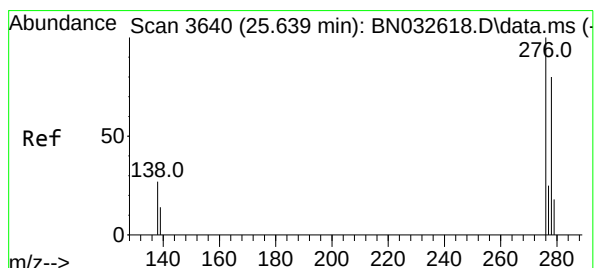
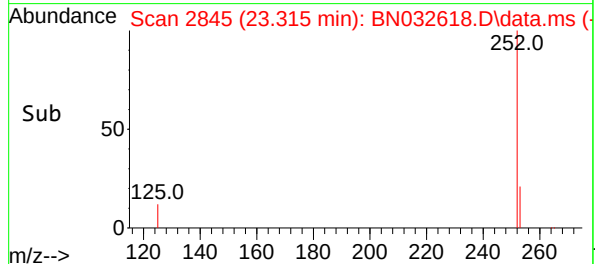
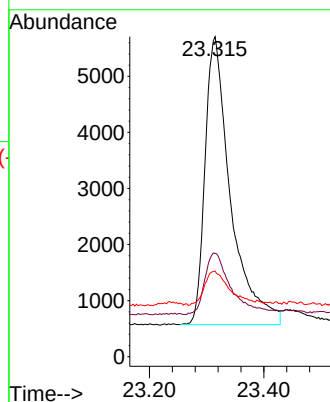
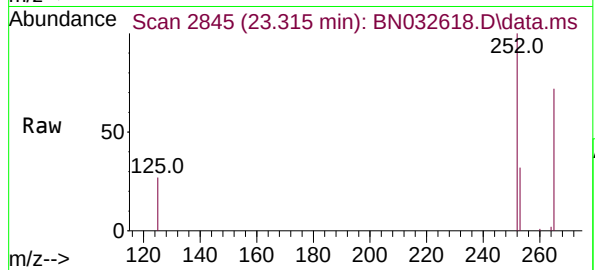
SSTDICCC0.4

Tgt Ion:	252	Resp:	1590
Ion Ratio	Lower	Upper	
252	100		
253	32.3	25.8	38.8
125	26.8	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.390 ng

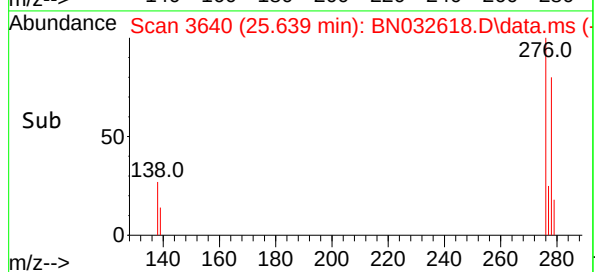
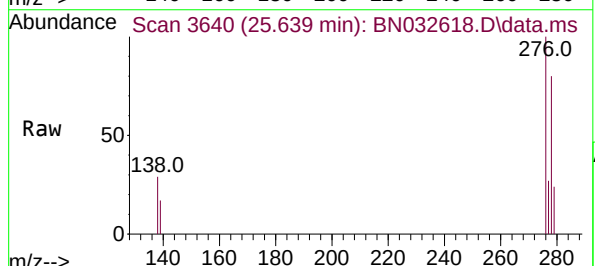
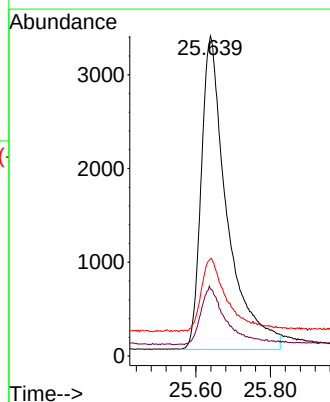
RT: 25.639 min Scan# 3640

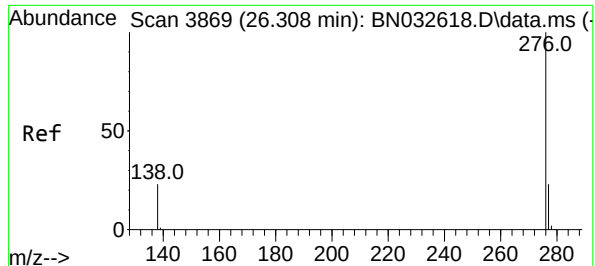
Delta R.T. 0.000 min

Lab File: BN032618.D

Acq: 10 Jul 2024 17:07

Tgt Ion:	278	Resp:	16066
Ion Ratio	Lower	Upper	
278	100		
139	20.9	16.7	25.1
279	30.4	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.400 ng

RT: 26.308 min Scan# 3869

Delta R.T. 0.000 min

Lab File: BN032618.D

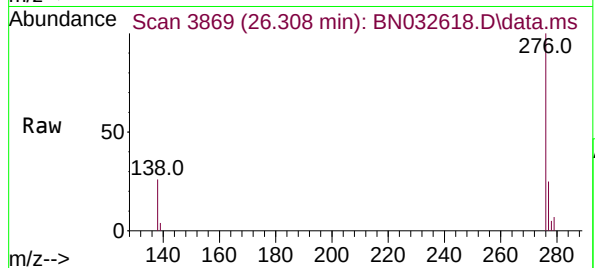
Acq: 10 Jul 2024 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:276 Resp: 18220

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

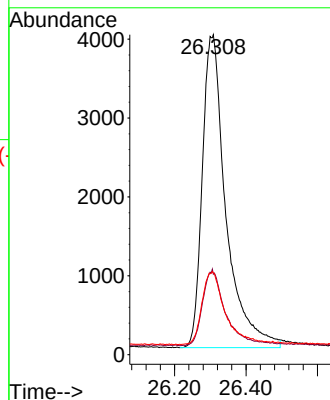
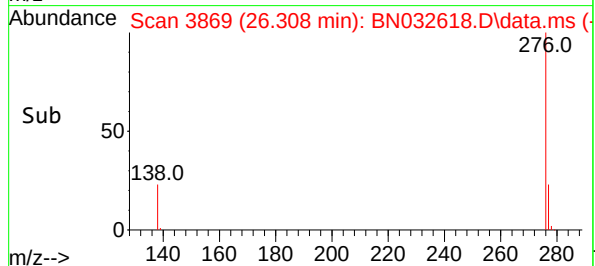
138 25.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032619.D
 Acq On : 10 Jul 2024 17:43
 Operator : MA/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:40:20 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4635	0.400	ng	0.00
7) Naphthalene-d8	10.346	136	14500	0.400	ng	-0.01
13) Acenaphthene-d10	14.210	164	9475	0.400	ng	0.00
19) Phenanthrene-d10	16.966	188	19967	0.400	ng	#-0.01
29) Chrysene-d12	21.184	240	16320	0.400	ng	0.00
35) Perylene-d12	23.396	264	15017	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.190	112	9673	0.825	ng	0.00
5) Phenol-d6	6.779	99	12023	0.826	ng	-0.01
8) Nitrobenzene-d5	8.745	82	9600	0.879	ng	-0.03
11) 2-Methylnaphthalene-d10	11.945	152	19054	0.859	ng	-0.02
14) 2,4,6-Tribromophenol	15.725	330	3306	0.816	ng	-0.01
15) 2-Fluorobiphenyl	12.831	172	30471	0.864	ng	-0.02
27) Fluoranthene-d10	19.017	212	43978	0.851	ng	0.00
31) Terphenyl-d14	19.621	244	28910	0.864	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.139	88	4771	0.831	ng	96
3) n-Nitrosodimethylamine	3.464	42	4090	0.843	ng	# 99
6) bis(2-Chloroethyl)ether	7.018	93	11666	0.959	ng	100
9) Naphthalene	10.389	128	34029	0.847	ng	97
10) Hexachlorobutadiene	10.645	225	6444	0.840	ng	# 100
12) 2-Methylnaphthalene	12.020	142	22729	0.866	ng	98
16) Acenaphthylene	13.932	152	32507	0.843	ng	99
17) Acenaphthene	14.274	154	23704	0.868	ng	100
18) Fluorene	15.268	166	31718	0.869	ng	100
20) 4,6-Dinitro-2-methylph...	15.429	198	2104	0.776	ng	# 59
21) 4-Bromophenyl-phenylether	16.172	248	9798	0.835	ng	# 82
22) Hexachlorobenzene	16.271	284	11066	0.842	ng	99
23) Atrazine	16.458	200	7258	0.840	ng	# 93
24) Pentachlorophenol	16.644	266	3701	0.758	ng	99
25) Phenanthrene	17.016	178	47797	0.876	ng	100
26) Anthracene	17.115	178	38441	0.856	ng	100
28) Fluoranthene	19.044	202	56641	0.858	ng	100
30) Pyrene	19.411	202	57854	0.868	ng	99
32) Benzo(a)anthracene	21.175	228	44118	0.855	ng	99
33) Chrysene	21.220	228	52128	0.850	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	22699	0.795	ng	100
36) Indeno(1,2,3-cd)pyrene	25.610	276	50286	0.850	ng	99
37) Benzo(b)fluoranthene	22.730	252	46371	0.887	ng	# 91
38) Benzo(k)fluoranthene	22.774	252	53162m	0.877	ng	
39) Benzo(a)pyrene	23.300	252	40915	0.867	ng	# 86
40) Dibenzo(a,h)anthracene	25.618	278	39748	0.850	ng	94
41) Benzo(g,h,i)perylene	26.291	276	43816	0.846	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032619.D
Acq On : 10 Jul 2024 17:43
Operator : MA/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

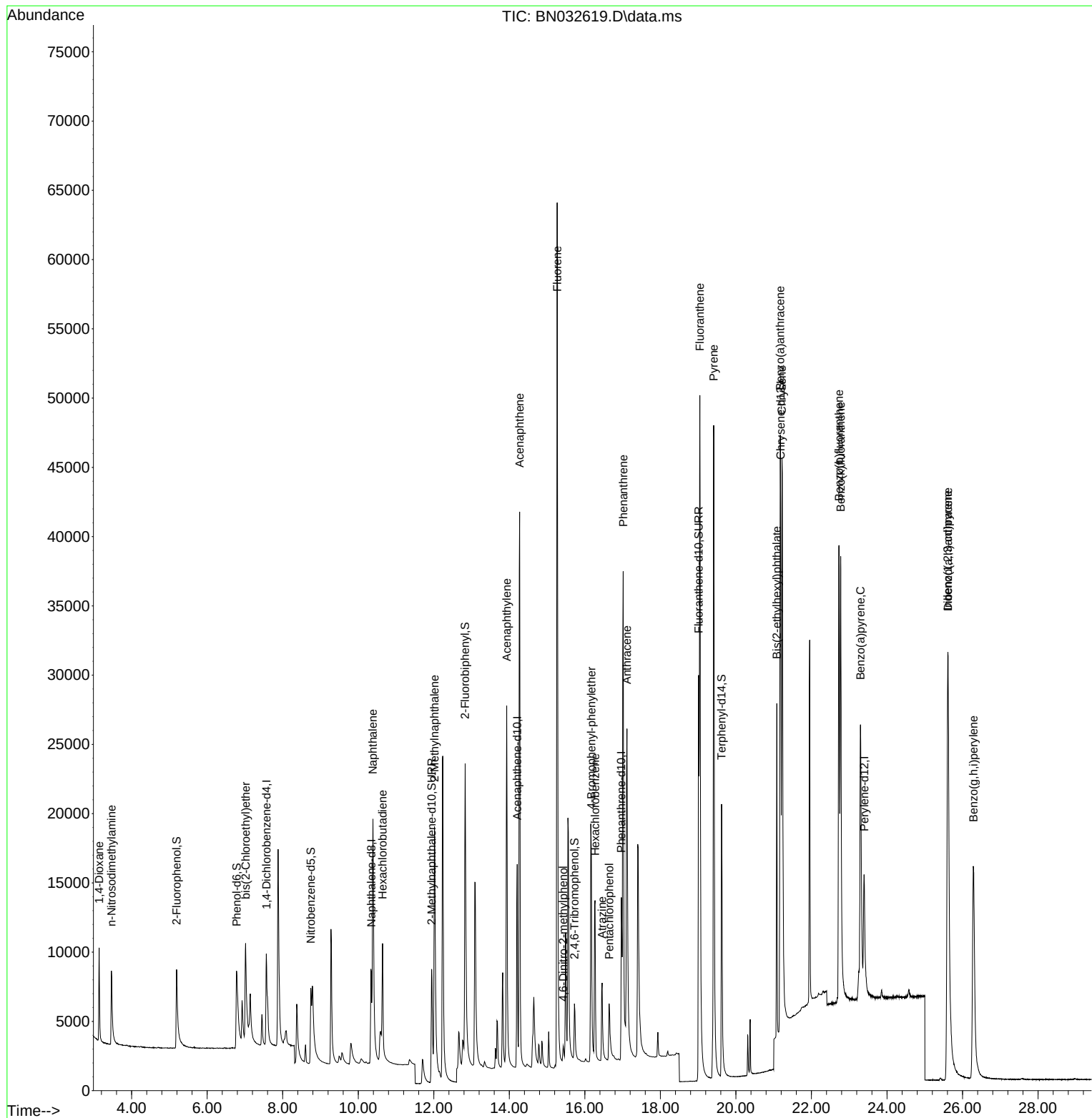
Manual Integrations

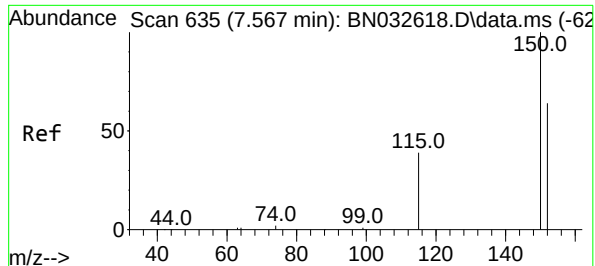
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

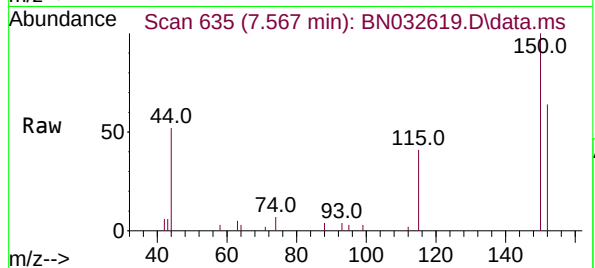
Quant Time: Jul 10 23:40:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

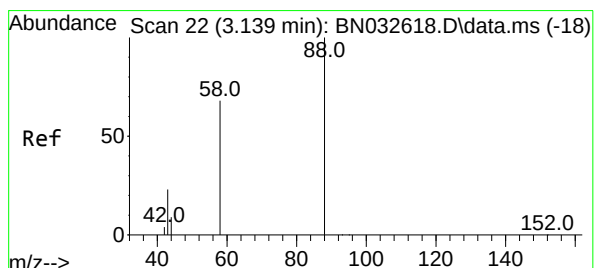
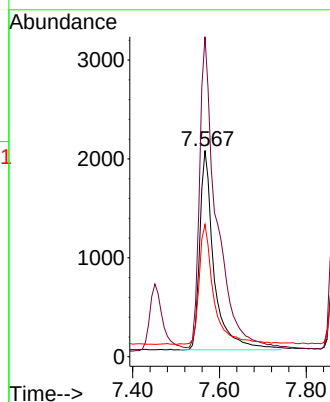
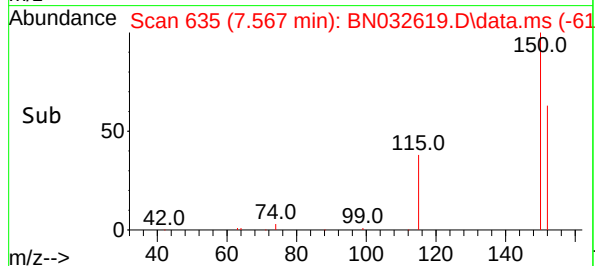
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion: 152 Resp: 463
Ion Ratio Lower Upper
152 100
150 155.2 123.8 185.6
115 64.2 52.8 79.2

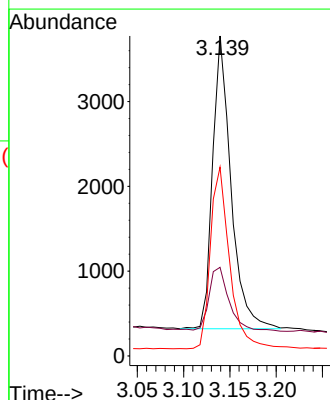
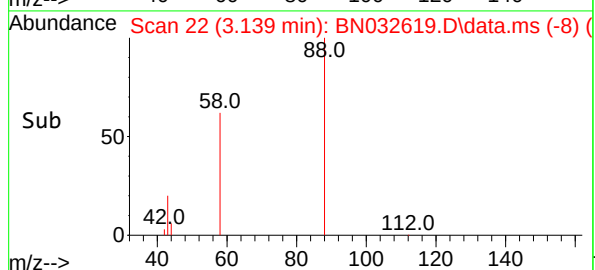
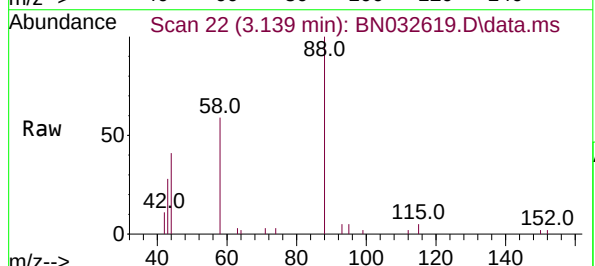
Manual Integrations
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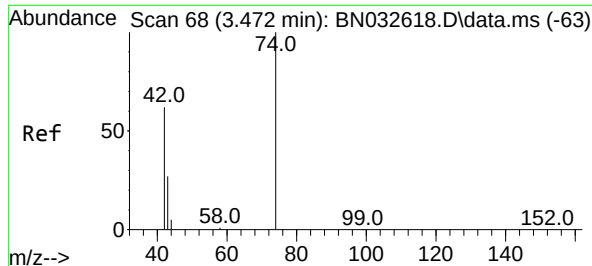
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.831 ng
RT: 3.139 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion: 88 Resp: 4771
Ion Ratio Lower Upper
88 100
43 24.2 18.4 27.6
58 64.9 49.2 73.8





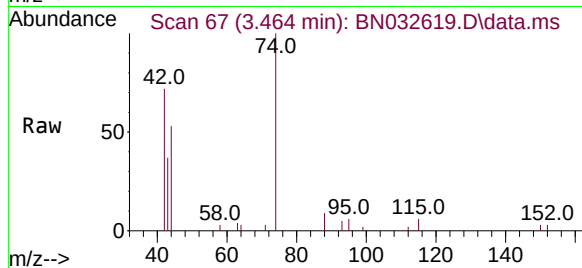
#3
n-Nitrosodimethylamine
Concen: 0.843 ng
RT: 3.464 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

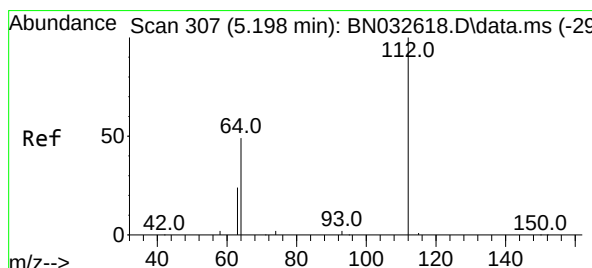
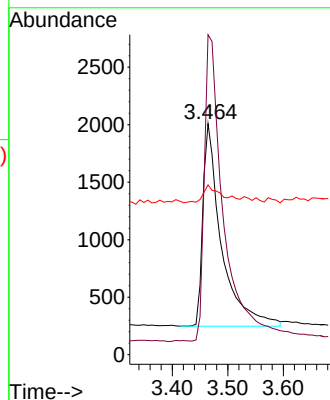
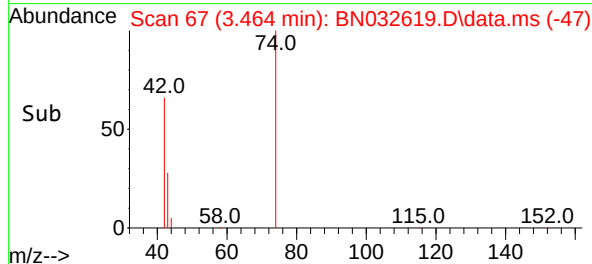
SSTDICC0.8



Tgt Ion: 42 Resp: 4090
Ion Ratio Lower Upper
42 100
74 158.0 126.9 190.3
44 7.6 4.8 7.2

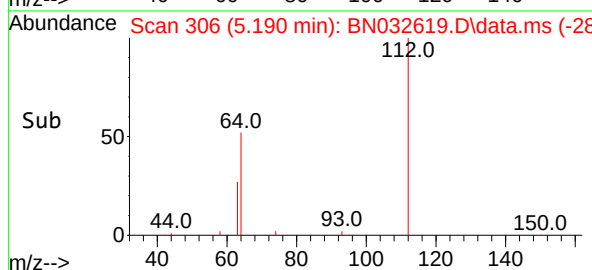
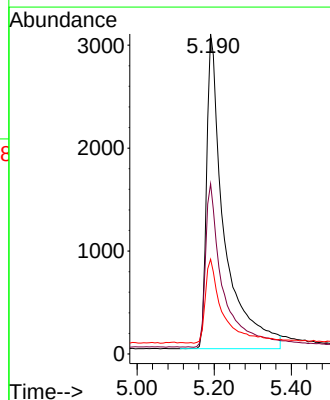
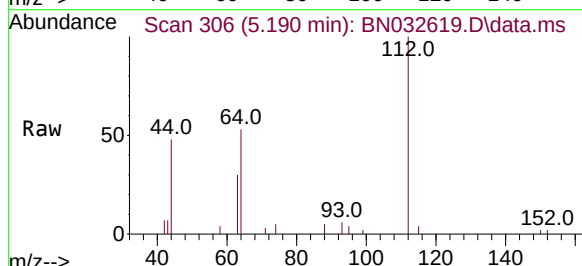
Manual Integrations
APPROVED

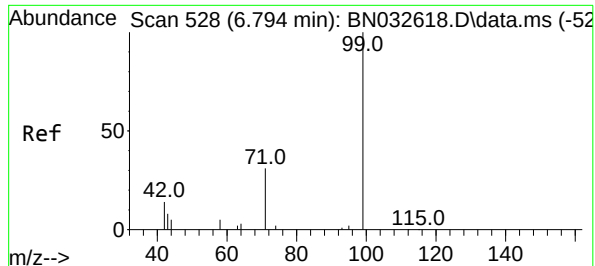
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.825 ng
RT: 5.190 min Scan# 306
Delta R.T. -0.007 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:112 Resp: 9673
Ion Ratio Lower Upper
112 100
64 51.6 40.2 60.4
63 26.4 22.2 33.4





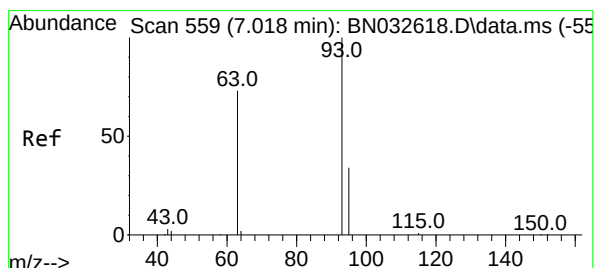
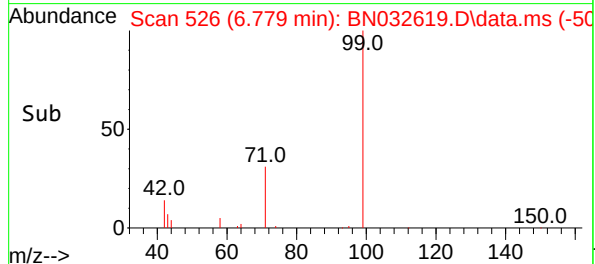
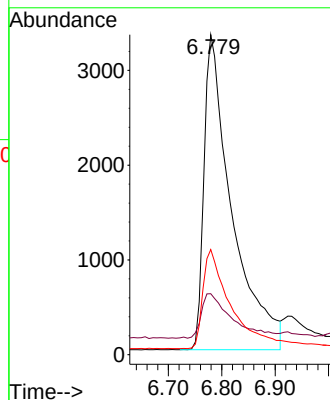
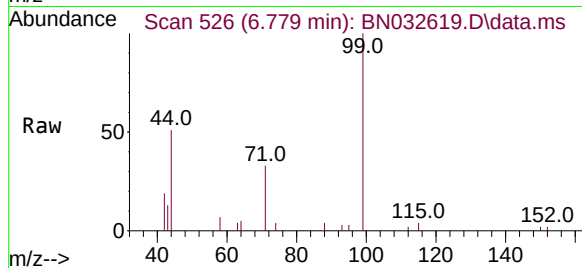
#5
Phenol-d6
Concen: 0.826 ng
RT: 6.779 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 1202
Ion Ratio Lower Upper
99 100
42 15.5 10.5 15.7
71 34.2 22.3 33.5

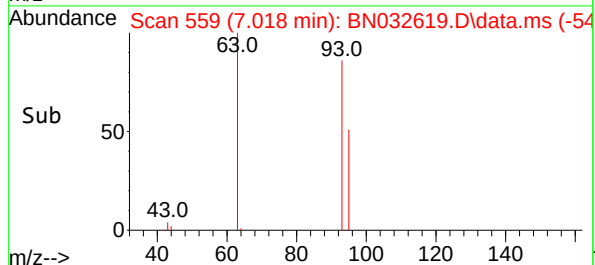
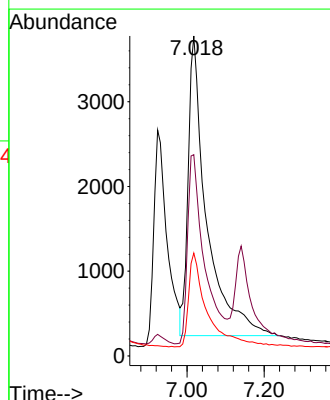
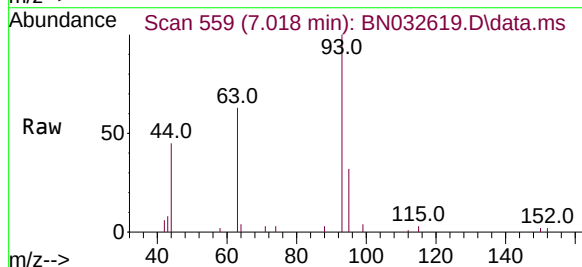
Manual Integrations
APPROVED

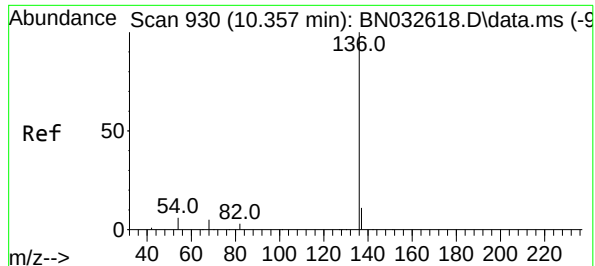
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.959 ng
RT: 7.018 min Scan# 559
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion: 93 Resp: 11666
Ion Ratio Lower Upper
93 100
63 57.8 46.4 69.6
95 31.8 25.5 38.3





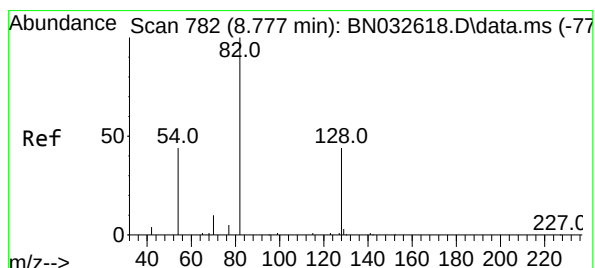
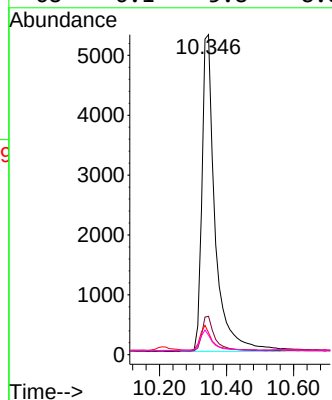
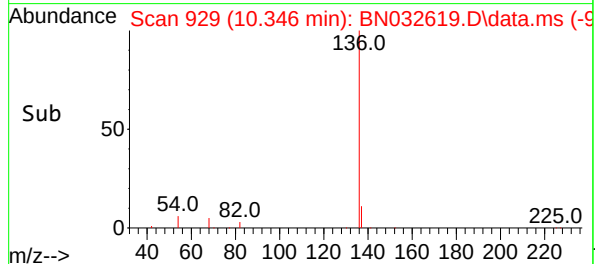
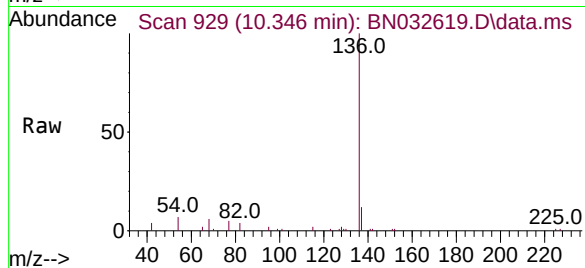
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.346 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.9	14.9
54	6.9	6.5	9.7
68	6.1	5.8	8.8

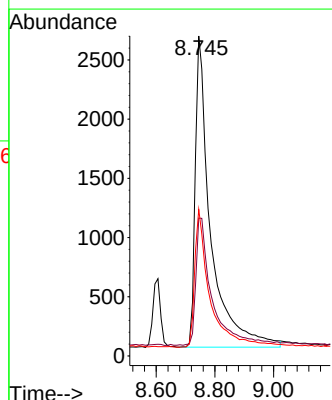
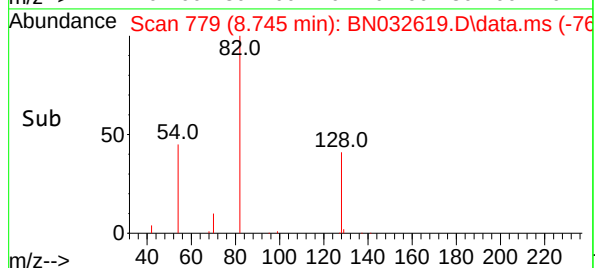
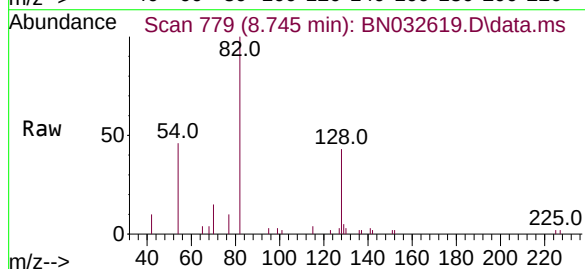
Manual Integrations
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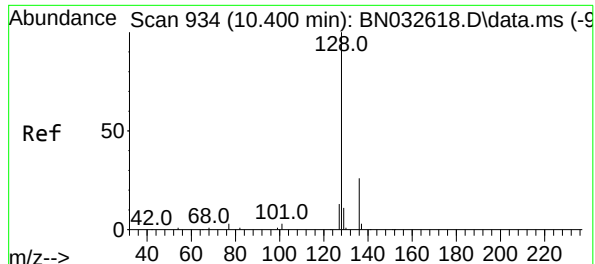
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.879 ng
RT: 8.745 min Scan# 779
Delta R.T. -0.032 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.1	41.7	62.5
54	45.8	39.5	59.3





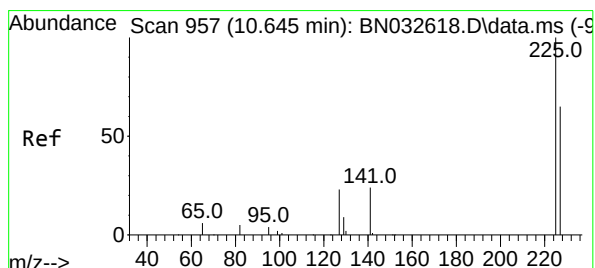
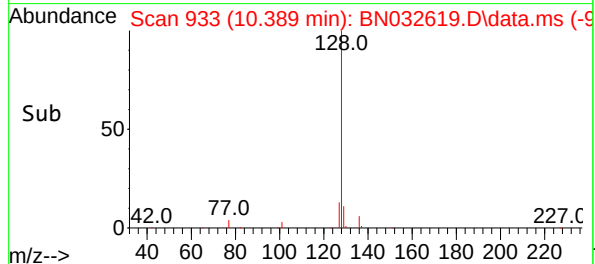
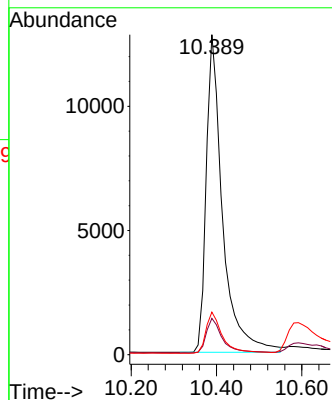
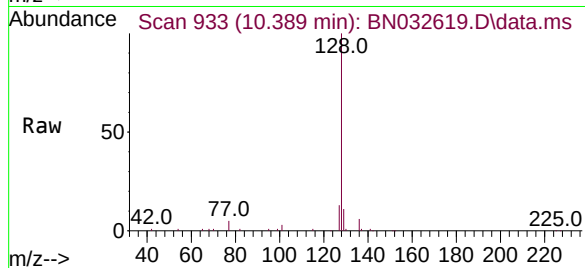
#9
Naphthalene
Concen: 0.847 ng
RT: 10.389 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 34029
Ion Ratio Lower Upper
128 100
129 11.3 9.8 14.8
127 13.3 11.5 17.3

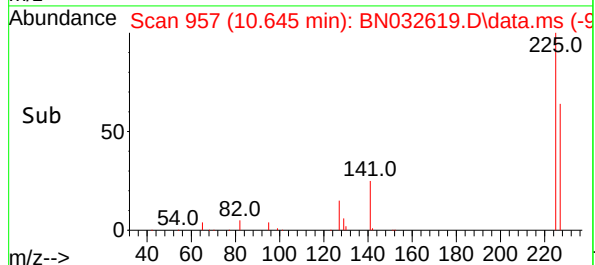
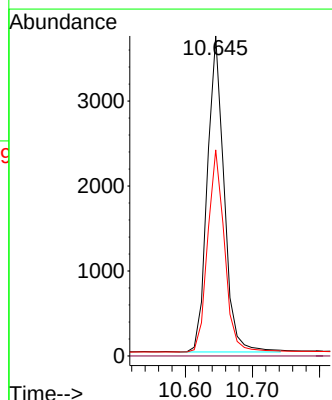
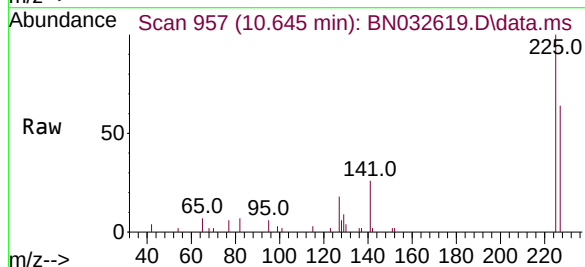
Manual Integrations
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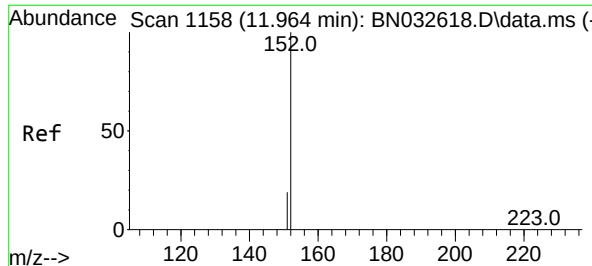
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.840 ng
RT: 10.645 min Scan# 957
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

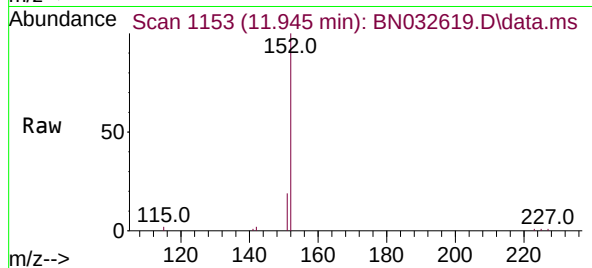
Tgt Ion:225 Resp: 6444
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.859 ng
RT: 11.945 min Scan# 1153
Delta R.T. -0.019 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

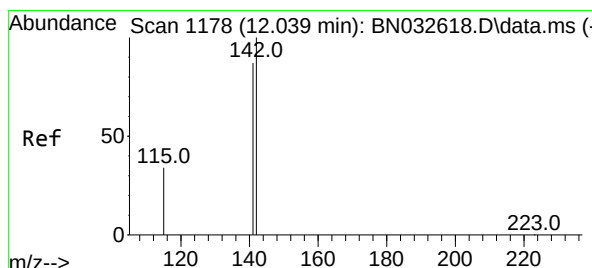
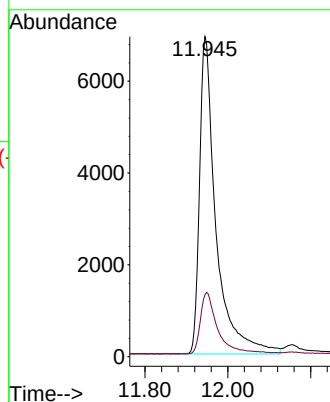
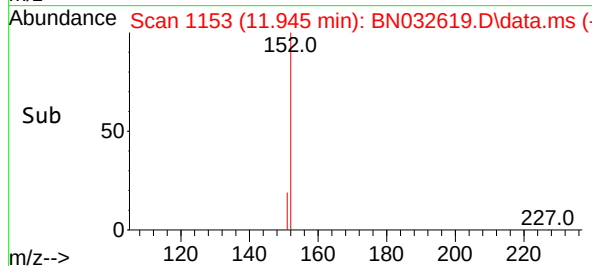
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:152 Resp: 19054
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

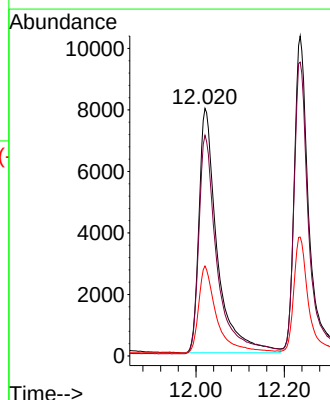
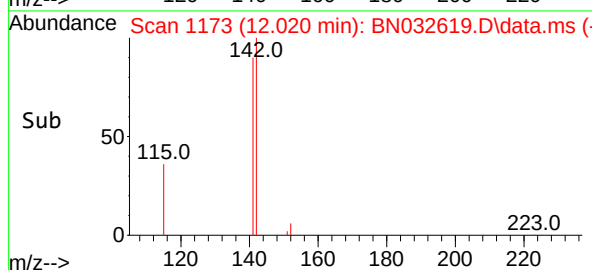
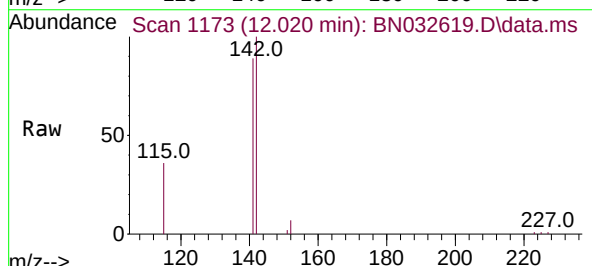
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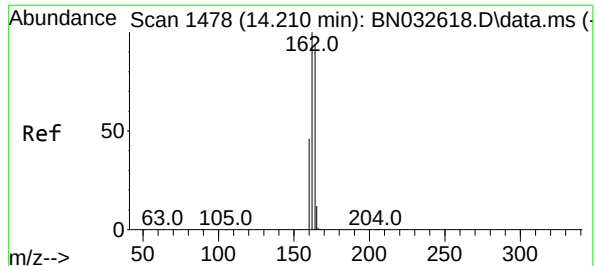
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 0.866 ng
RT: 12.020 min Scan# 1173
Delta R.T. -0.019 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

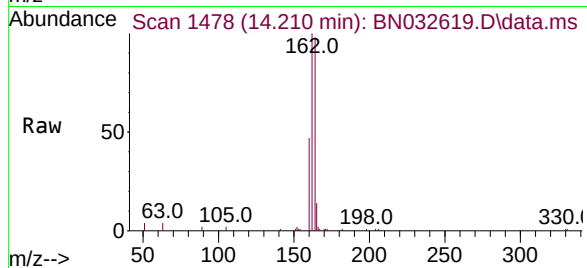
Tgt Ion:142 Resp: 22729
Ion Ratio Lower Upper
142 100
141 89.1 69.3 103.9
115 36.3 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

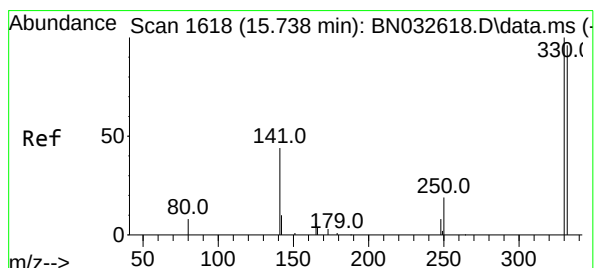
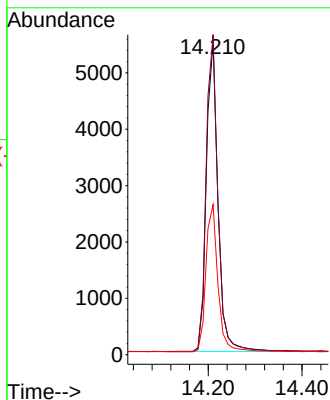
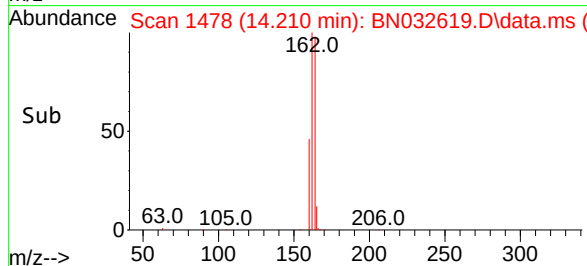
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



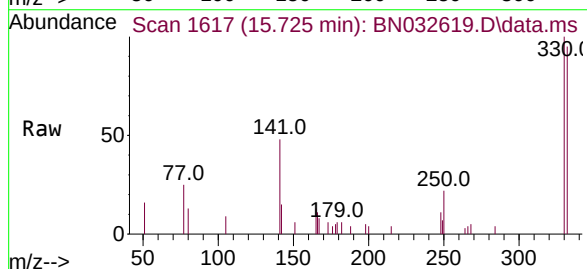
Tgt Ion:164 Resp: 947
Ion Ratio Lower Upper
164 100
162 102.4 85.0 127.4
160 48.0 39.4 59.2

Manual Integrations
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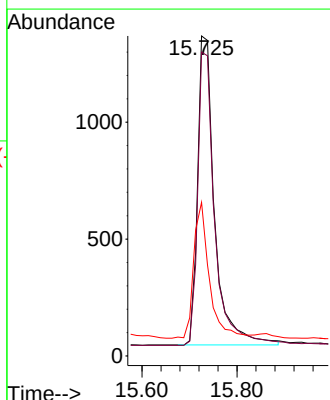
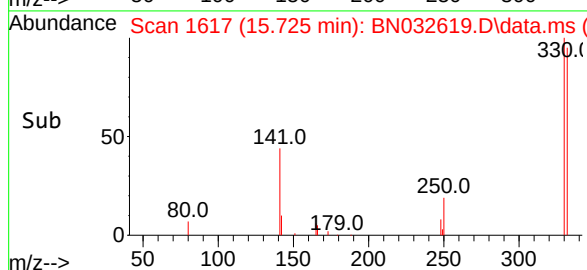
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

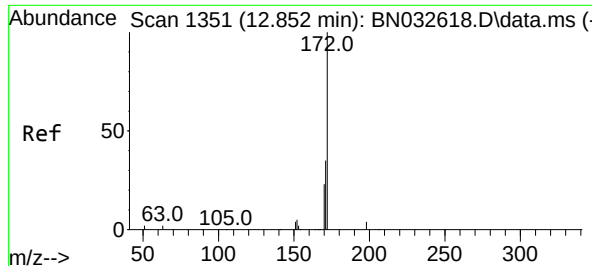


#14
2,4,6-Tribromophenol
Concen: 0.816 ng
RT: 15.725 min Scan# 1617
Delta R.T. -0.013 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43



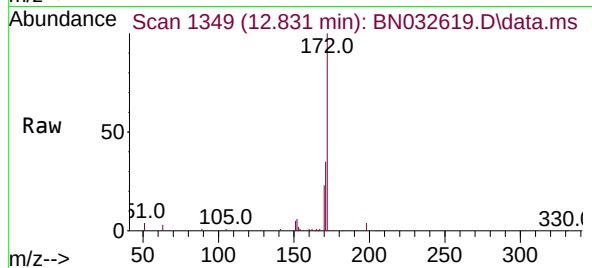
Tgt Ion:330 Resp: 3306
Ion Ratio Lower Upper
330 100
332 95.1 77.8 116.8
141 40.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.864 ng
RT: 12.831 min Scan# 1349
Delta R.T. -0.021 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

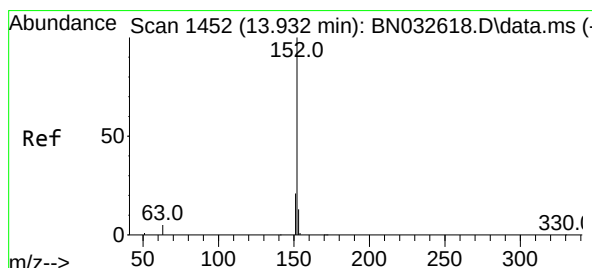
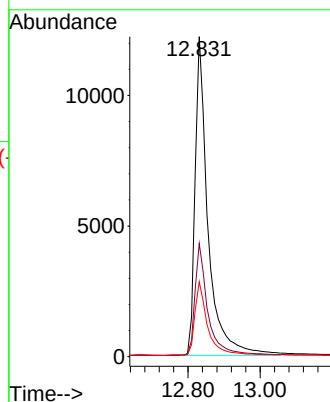
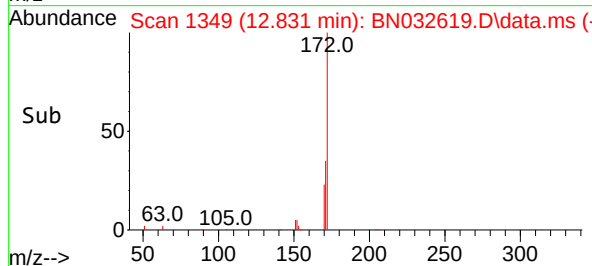
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



Tgt Ion:172 Resp: 3047
Ion Ratio Lower Upper
172 100
171 35.3 28.6 43.0
170 23.4 19.0 28.6

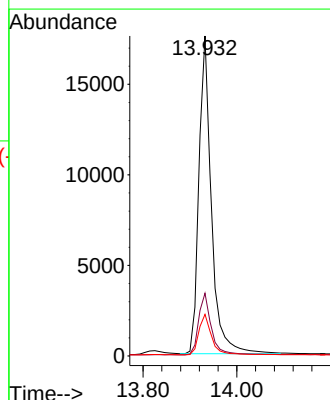
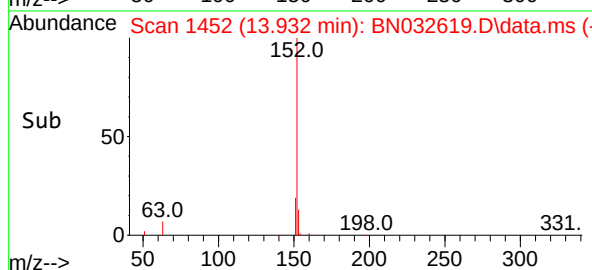
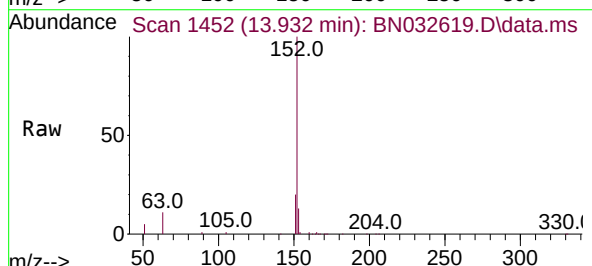
Manual Integrations
APPROVED

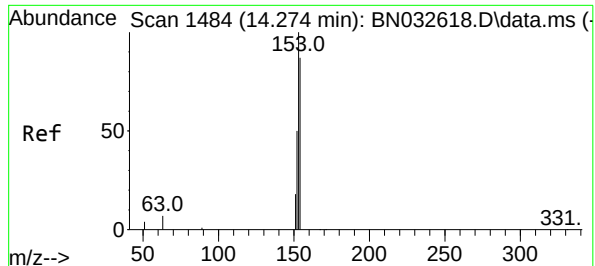
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 0.843 ng
RT: 13.932 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

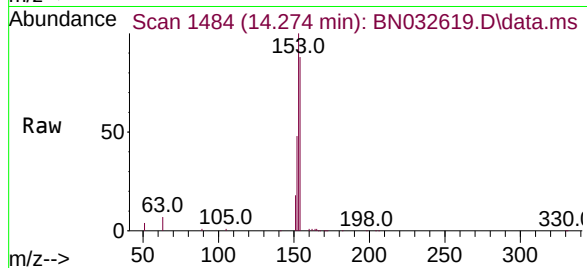
Tgt Ion:152 Resp: 32507
Ion Ratio Lower Upper
152 100
151 19.7 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 0.868 ng
RT: 14.274 min Scan# 1484
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

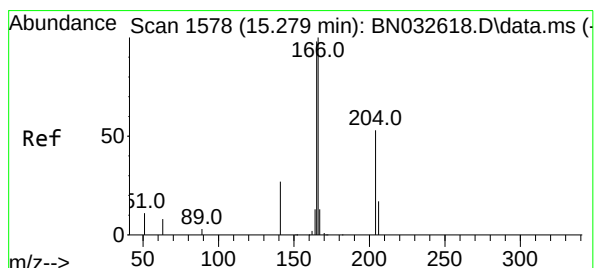
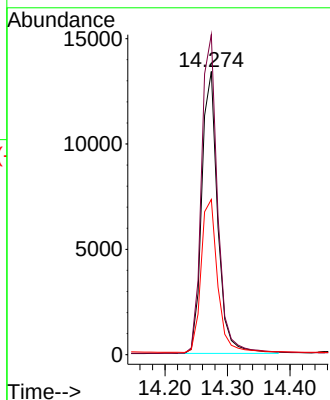
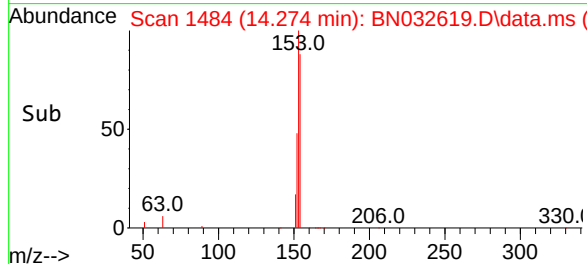
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8



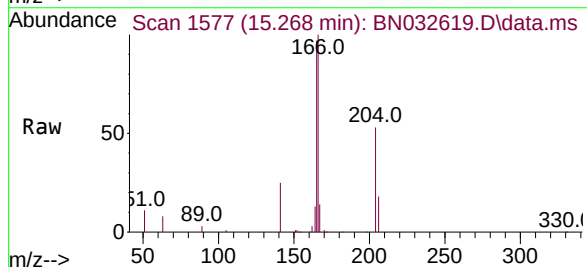
Tgt Ion:154 Resp: 23704
Ion Ratio Lower Upper
154 100
153 114.4 91.8 137.8
152 56.2 45.2 67.8

Manual Integrations
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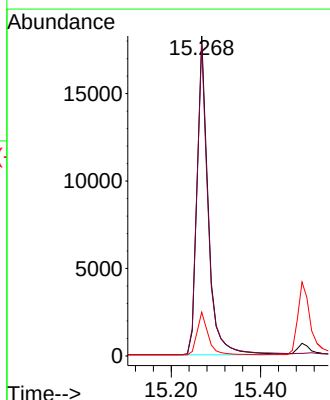
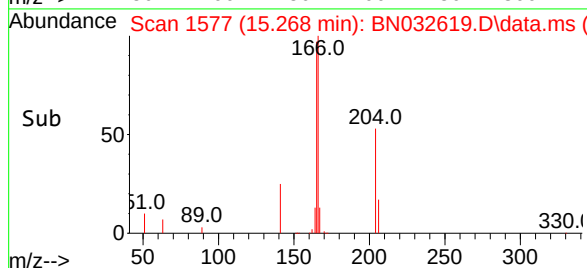
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

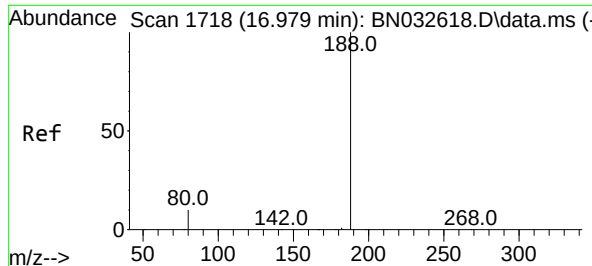


#18
Fluorene
Concen: 0.869 ng
RT: 15.268 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43



Tgt Ion:166 Resp: 31718
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.966 min Scan# 1718

Delta R.T. -0.013 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

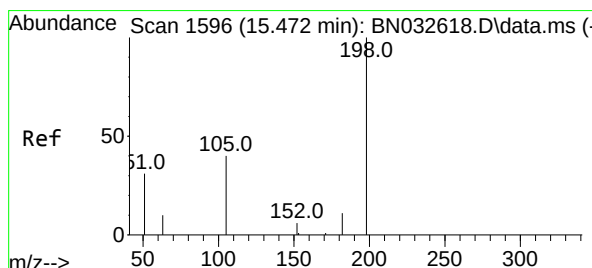
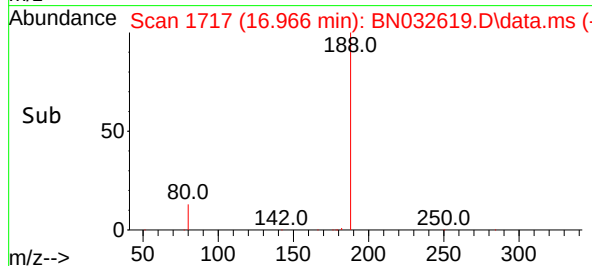
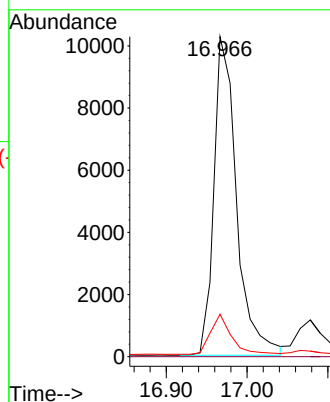
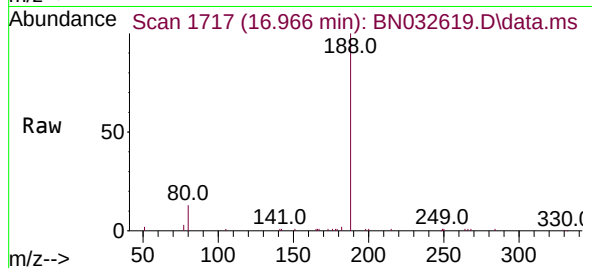
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.2	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.776 ng

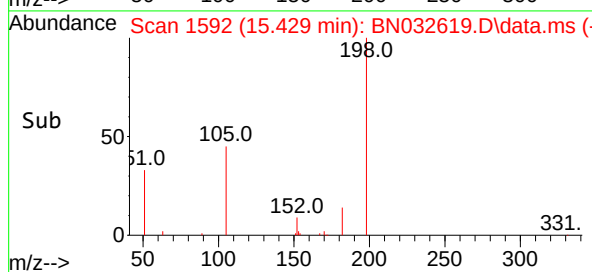
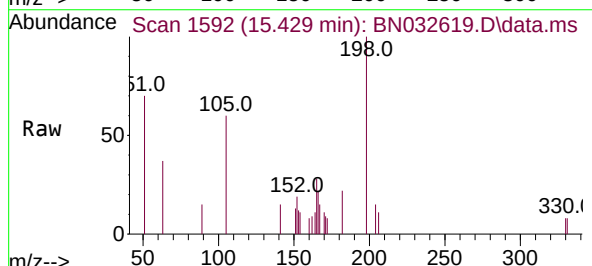
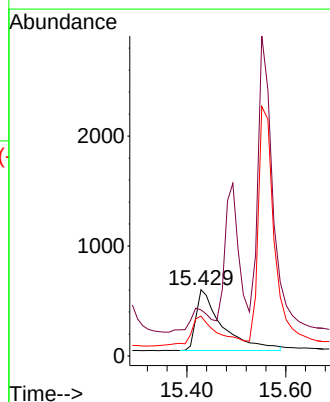
RT: 15.429 min Scan# 1592

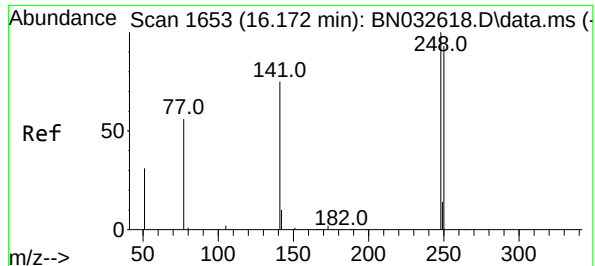
Delta R.T. -0.043 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
198	100		
51	69.7	105.7	158.5#
105	60.0	63.0	94.6#





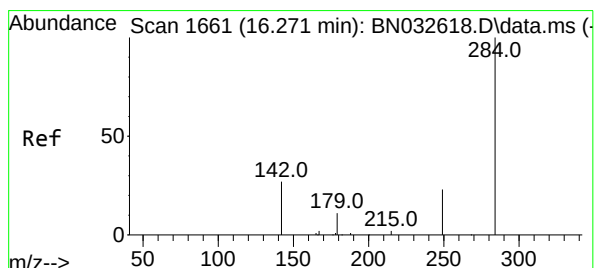
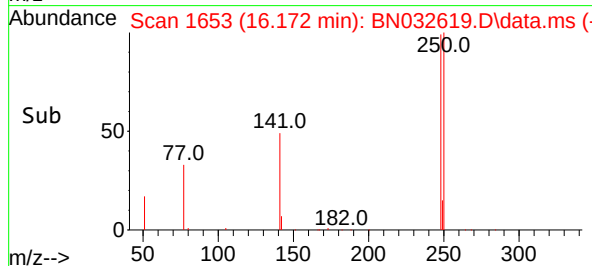
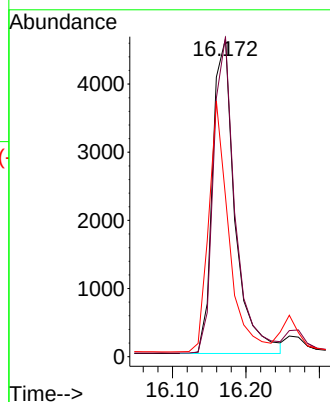
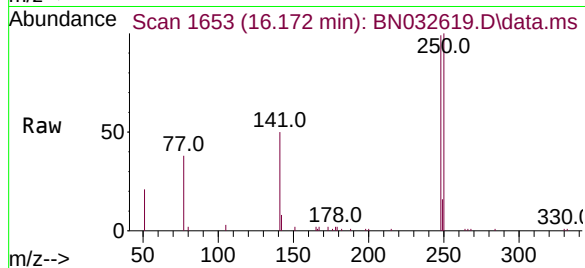
#21
4-Bromophenyl-phenylether
Concen: 0.835 ng
RT: 16.172 min Scan# 1653
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 9798
Ion Ratio Lower Upper
248 100
250 100.7 75.1 112.7
141 50.3 62.0 93.0

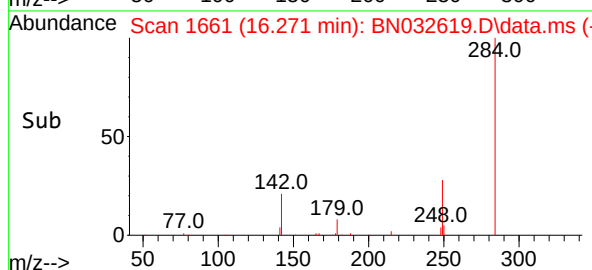
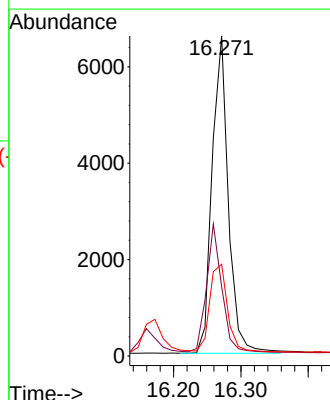
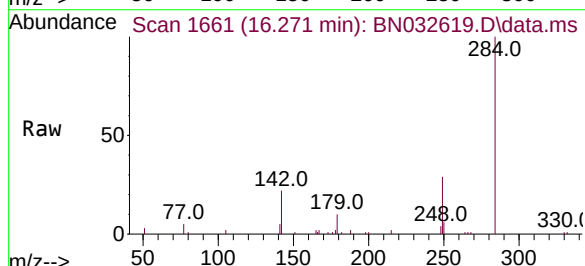
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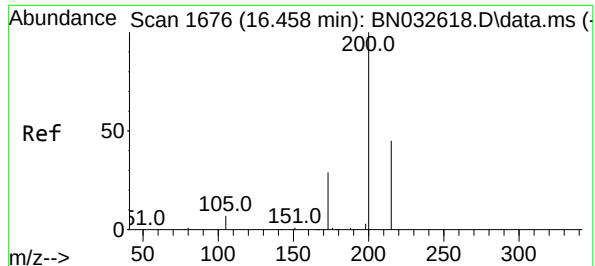
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.842 ng
RT: 16.271 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:284 Resp: 11066
Ion Ratio Lower Upper
284 100
142 37.7 29.4 44.0
249 30.5 24.6 36.8





#23

Atrazine

Concen: 0.840 ng

RT: 16.458 min Scan# 1676

Delta R.T. -0.000 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

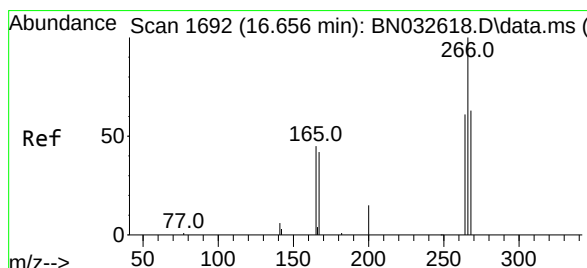
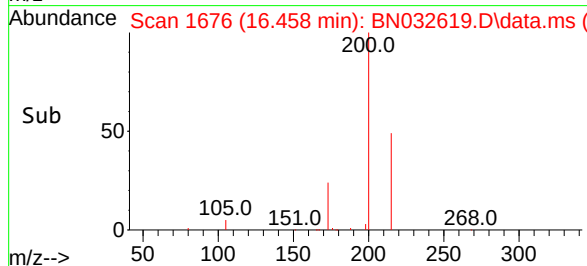
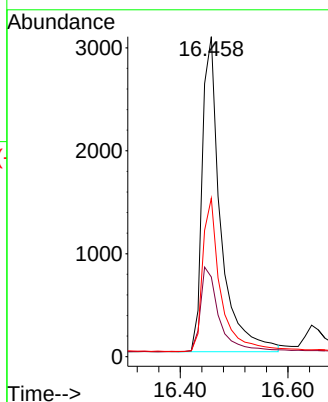
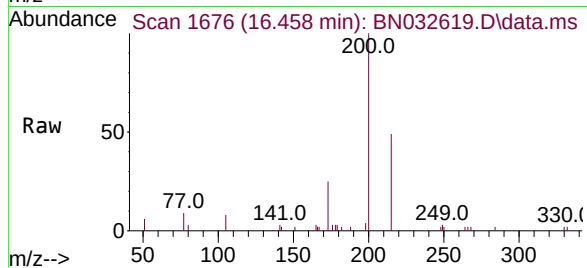
SSTDICC0.8

Tgt Ion:	200	Resp:	725
Ion Ratio	Lower	Upper	
200	100		
173	24.9	25.4	38.2
215	49.5	38.2	57.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#24

Pentachlorophenol

Concen: 0.758 ng

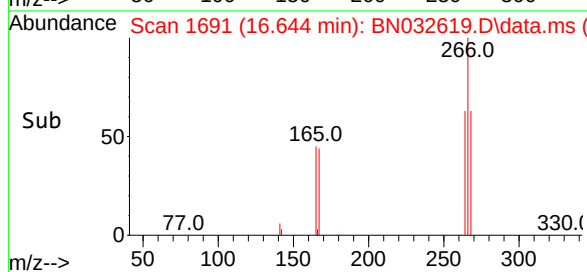
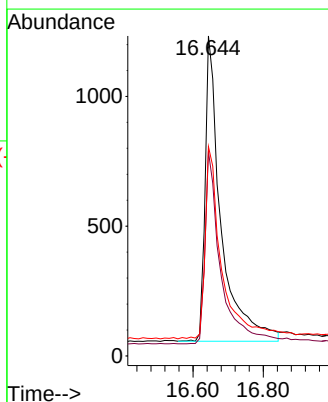
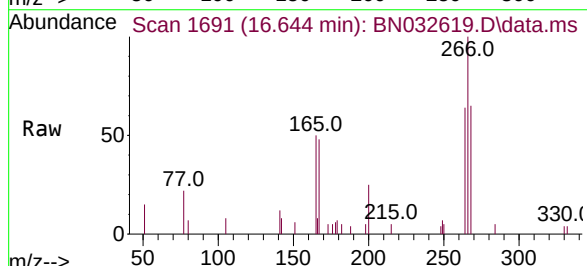
RT: 16.644 min Scan# 1691

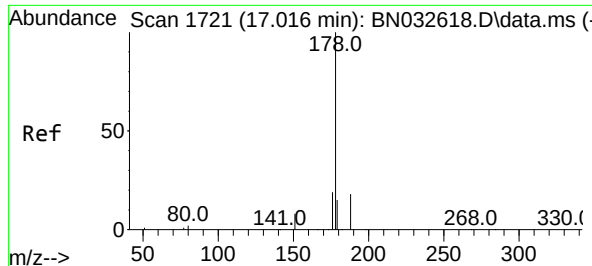
Delta R.T. -0.012 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	266	Resp:	3701
Ion Ratio	Lower	Upper	
266	100		
264	62.3	50.2	75.2
268	65.5	52.8	79.2





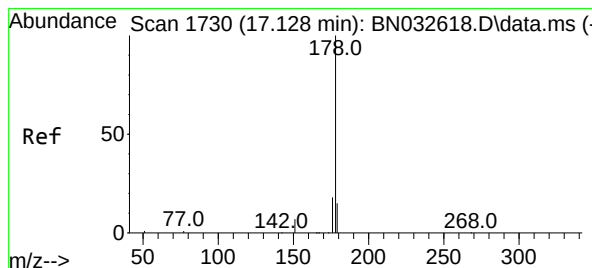
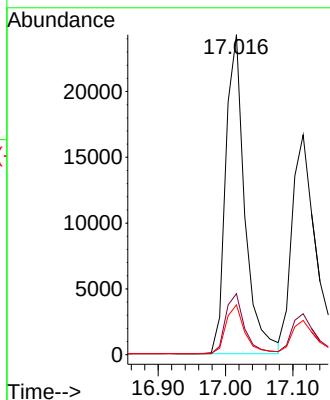
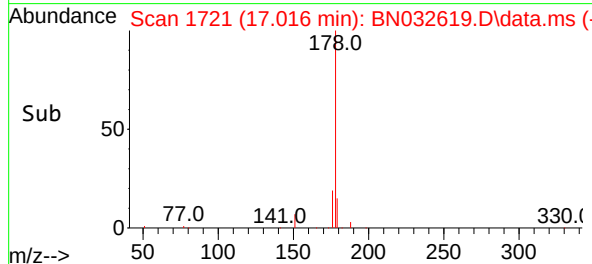
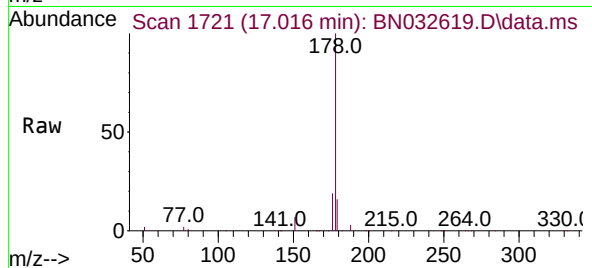
#25
Phenanthrene
Concen: 0.876 ng
RT: 17.016 min Scan# 1721
Delta R.T. -0.000 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 4779
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.2 12.2 18.4

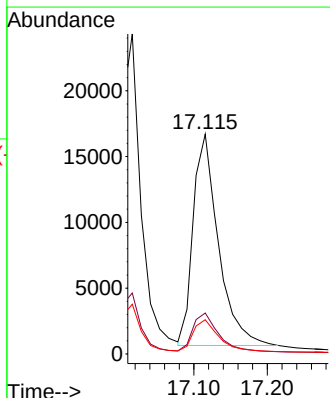
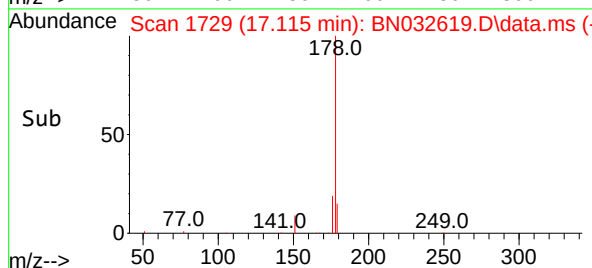
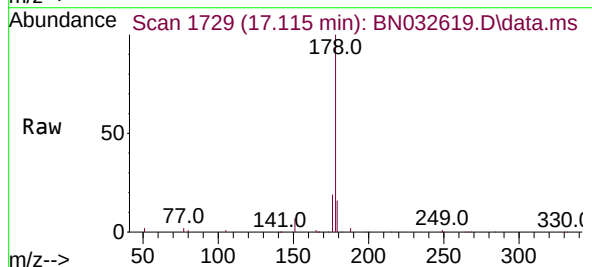
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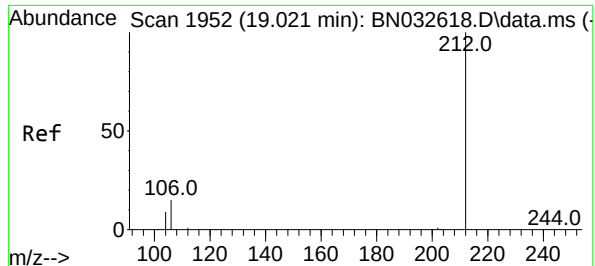
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.856 ng
RT: 17.115 min Scan# 1729
Delta R.T. -0.013 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion:178 Resp: 38441
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.851 ng

RT: 19.017 min Scan# 1951

Delta R.T. -0.005 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

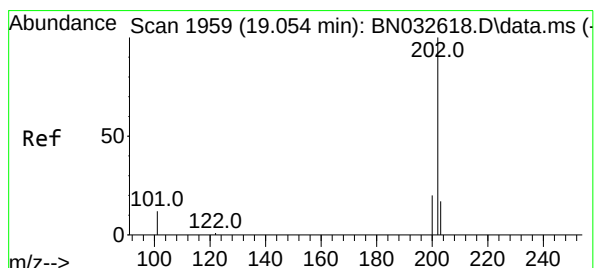
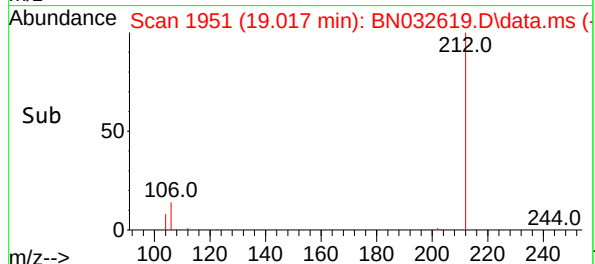
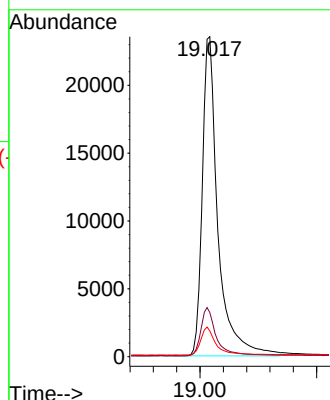
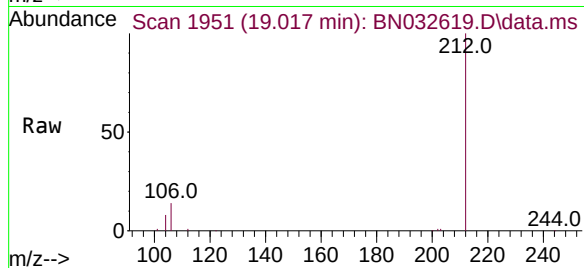
Tgt Ion:	212	Resp:	43978
Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.9	17.9
104	8.6	6.9	10.3

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.858 ng

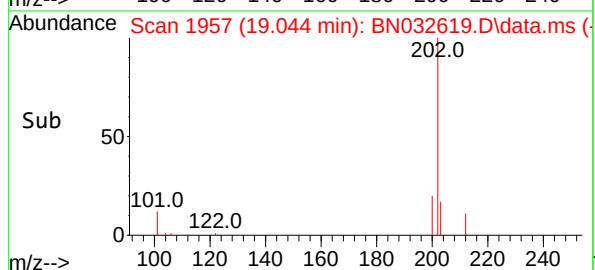
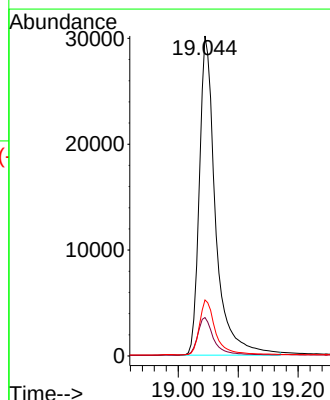
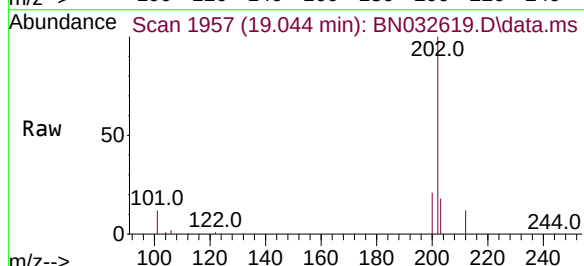
RT: 19.044 min Scan# 1957

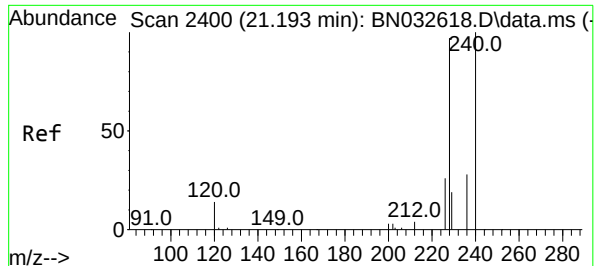
Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	202	Resp:	56641
Ion	Ratio	Lower	Upper
202	100		
101	11.7	9.6	14.4
203	17.2	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

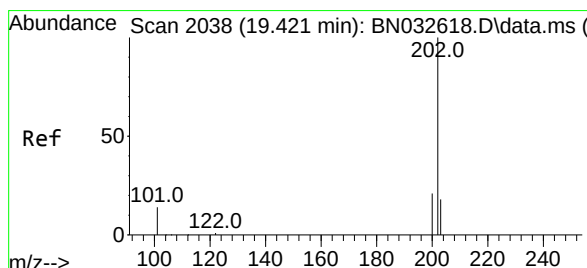
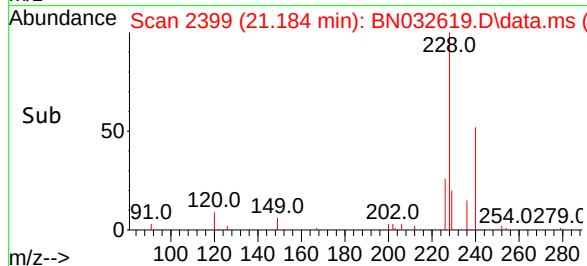
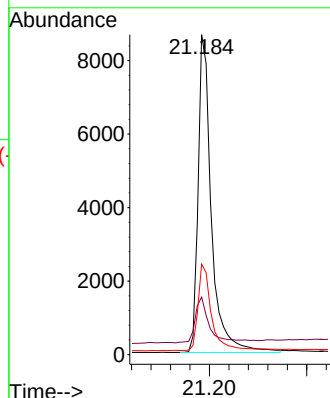
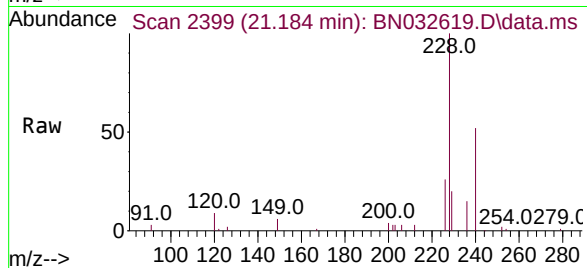
ClientSampleId :

SSTDICC0.8

Tgt Ion:	240	Resp:	16320
Ion Ratio	Lower	Upper	
240	100		
120	18.0	14.8	22.2
236	28.3	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.868 ng

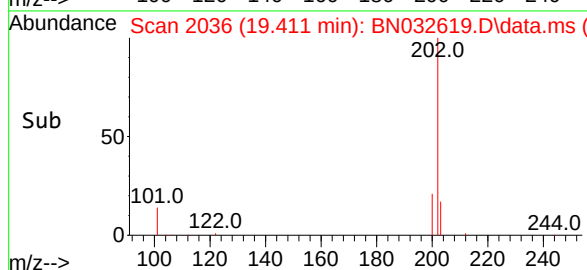
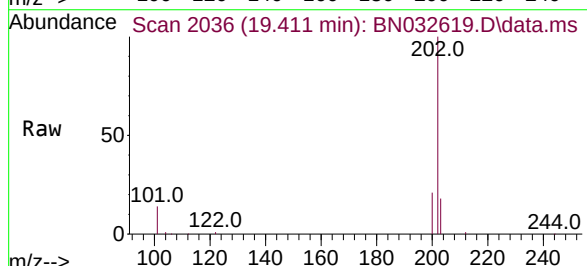
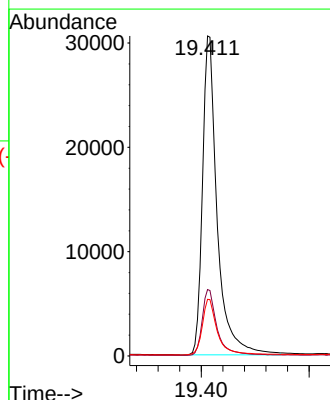
RT: 19.411 min Scan# 2036

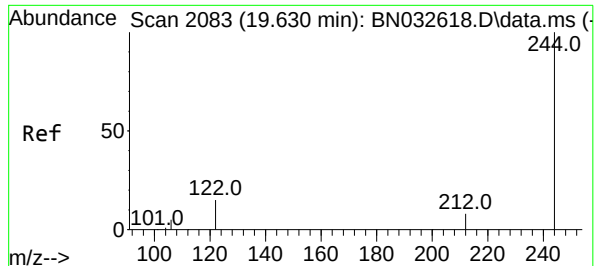
Delta R.T. -0.009 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	202	Resp:	57854
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	17.9	14.8	22.2





#31
Terphenyl-d14
Concen: 0.864 ng
RT: 19.621 min Scan# 2081
Delta R.T. -0.009 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

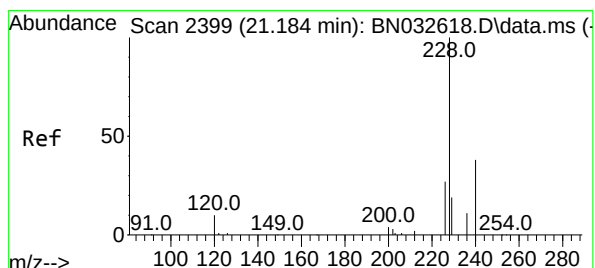
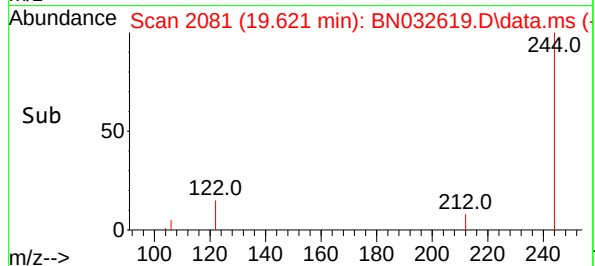
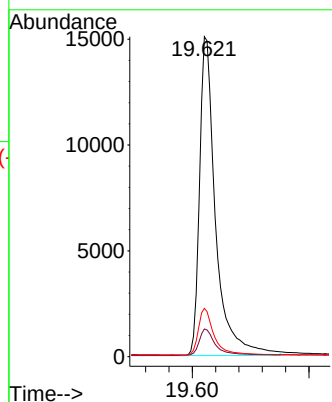
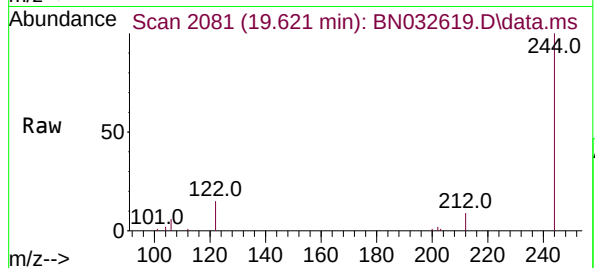
ClientSampleId :

SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.5	11.3
122	15.1	12.6	19.0

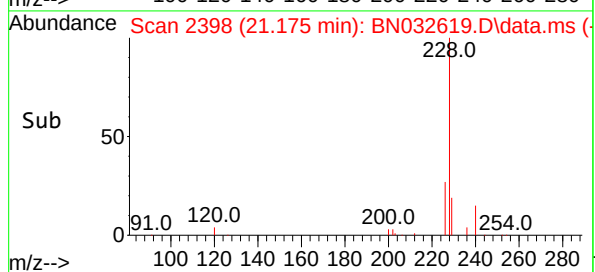
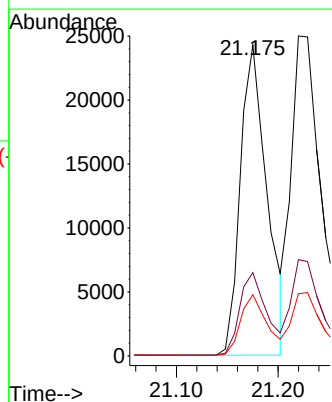
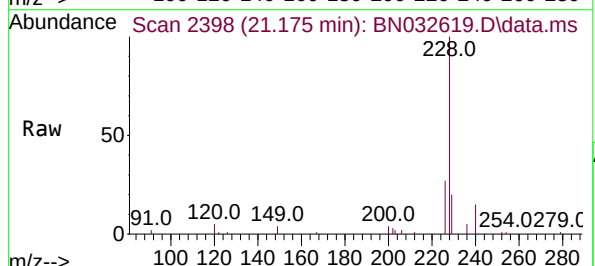
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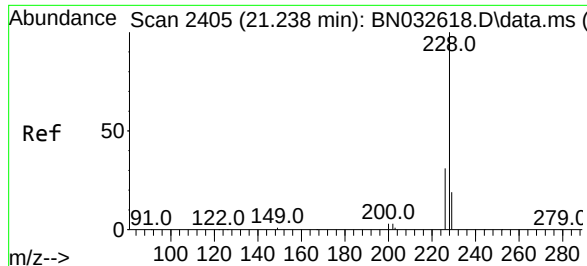
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.855 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.009 min
Lab File: BN032619.D
Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 0.850 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

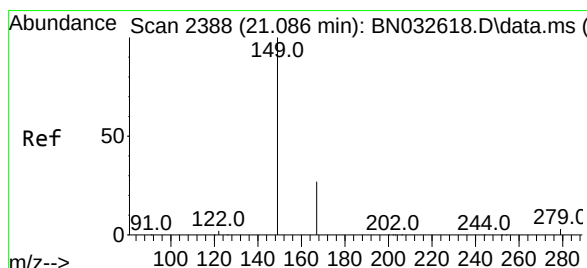
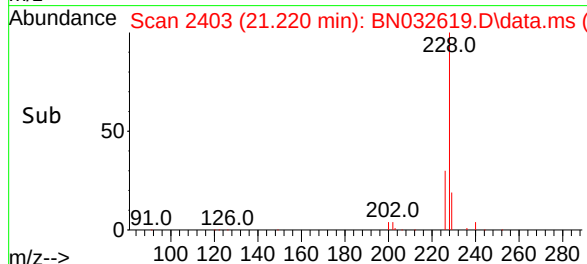
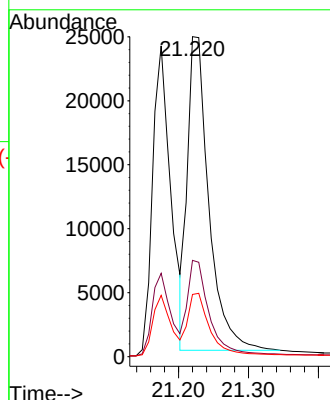
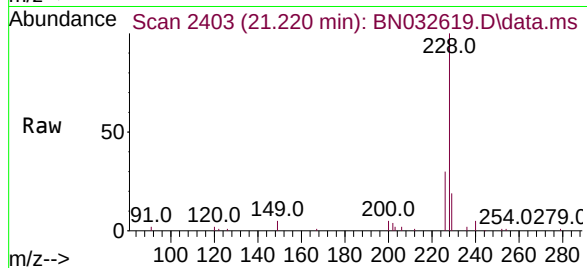
SSTDICC0.8

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.2	36.2
229	19.4	16.0	24.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.795 ng

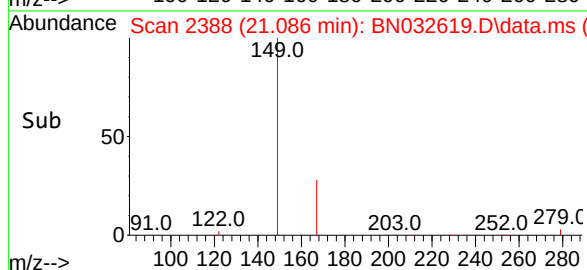
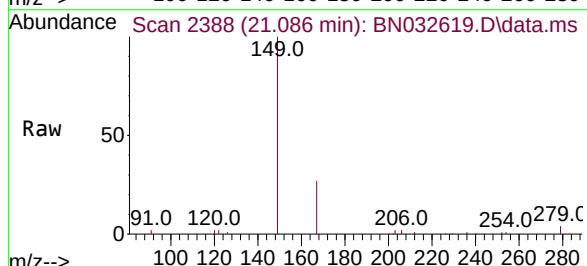
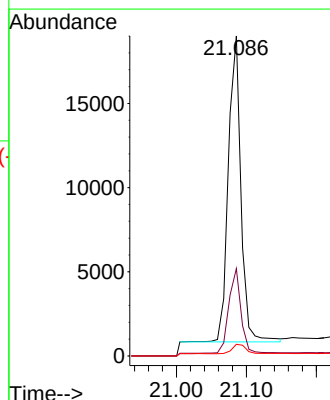
RT: 21.086 min Scan# 2388

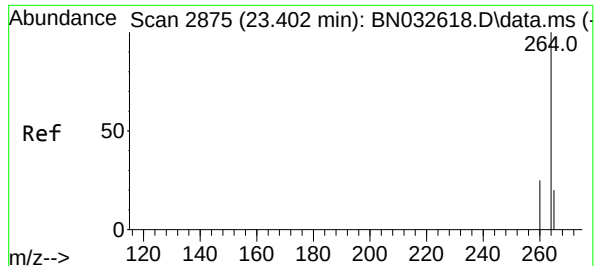
Delta R.T. -0.000 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.4	32.2
279	3.4	2.8	4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.396 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN032619.D

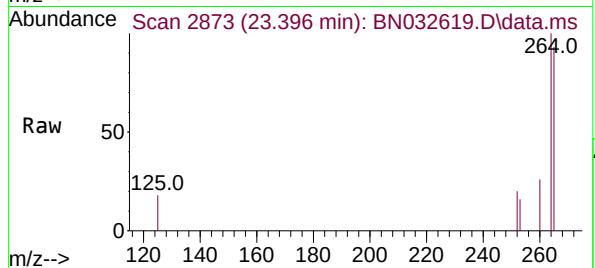
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



Tgt Ion:264 Resp: 1501

Ion Ratio Lower Upper

264 100

260 25.8 20.9 31.3

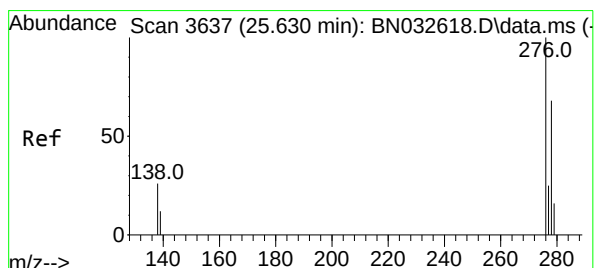
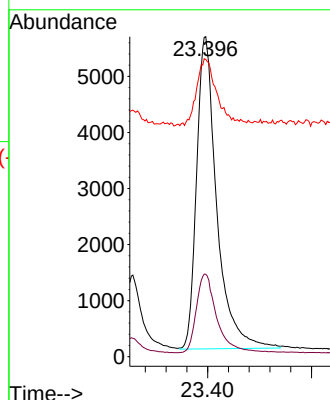
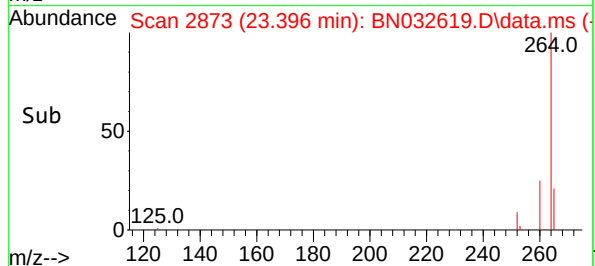
265 92.9 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.850 ng

RT: 25.610 min Scan# 3630

Delta R.T. -0.021 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

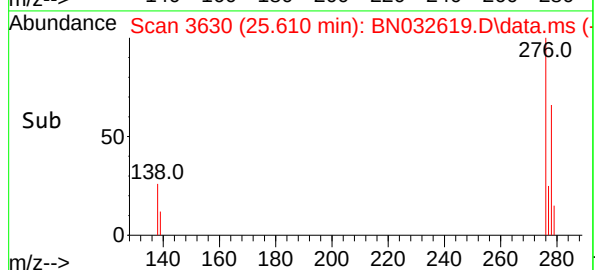
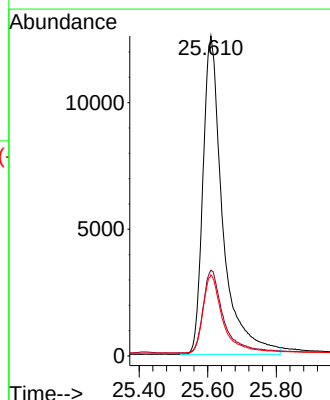
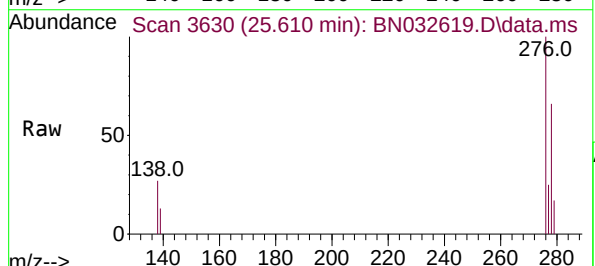
Tgt Ion:276 Resp: 50286

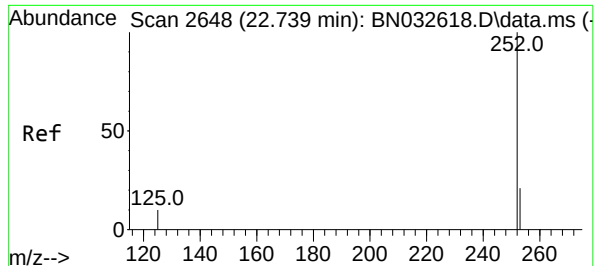
Ion Ratio Lower Upper

276 100

138 26.6 21.0 31.4

277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.887 ng

RT: 22.730 min Scan# 2648

Delta R.T. -0.009 min

Lab File: BN032619.D

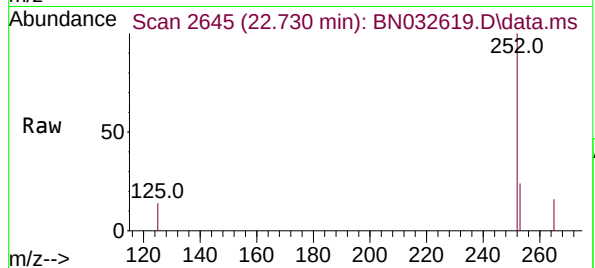
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



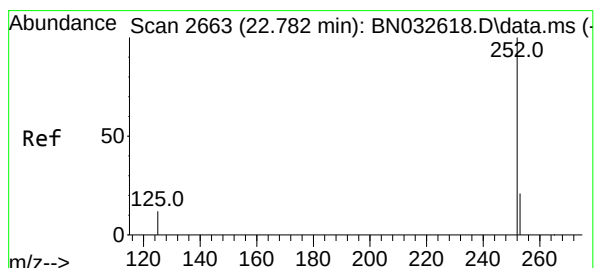
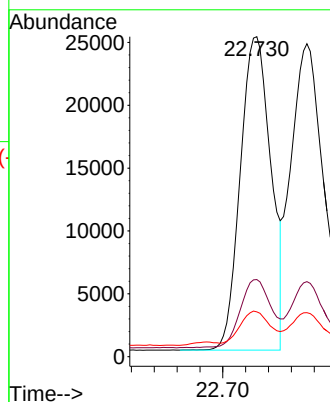
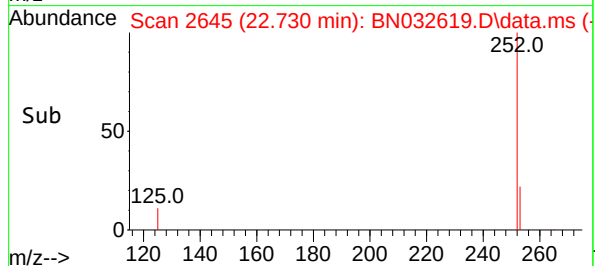
Tgt Ion:252	Resp:	4637
Ion Ratio	Lower	Upper
252	100	
253	24.1	22.3 33.5
125	14.0	15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

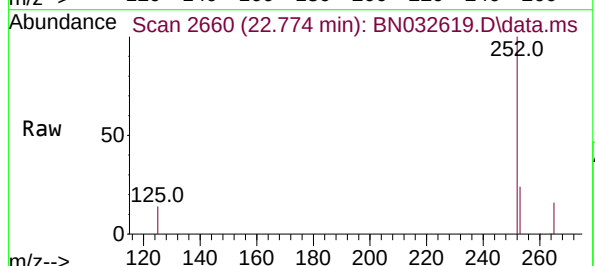
Concen: 0.877 ng m

RT: 22.774 min Scan# 2660

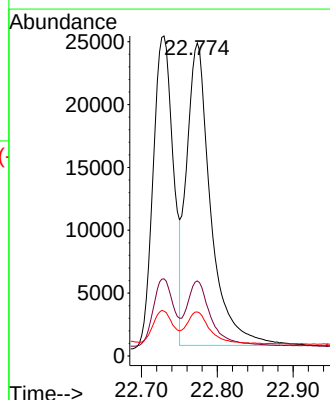
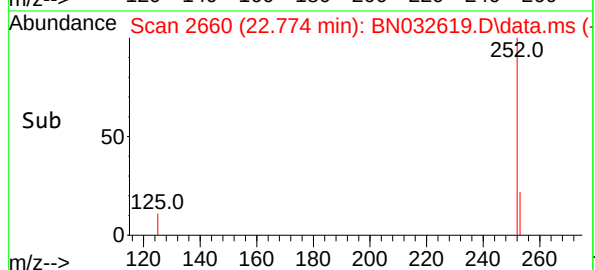
Delta R.T. -0.009 min

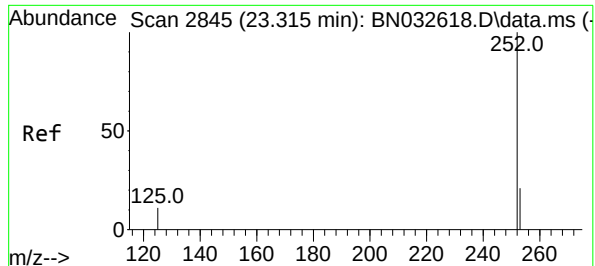
Lab File: BN032619.D

Acq: 10 Jul 2024 17:43



Tgt Ion:252	Resp:	53162
Ion Ratio	Lower	Upper
252	100	
253	24.0	22.6 34.0
125	14.0	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.867 ng

RT: 23.300 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

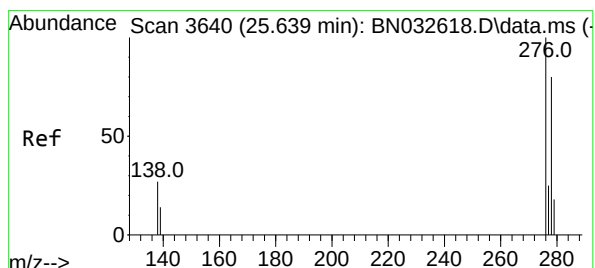
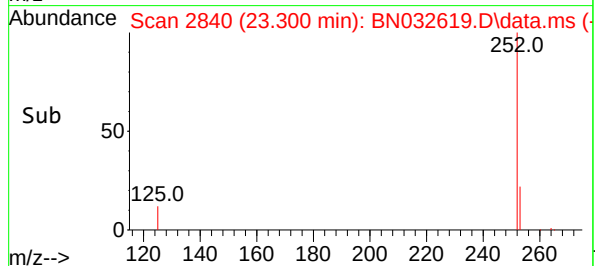
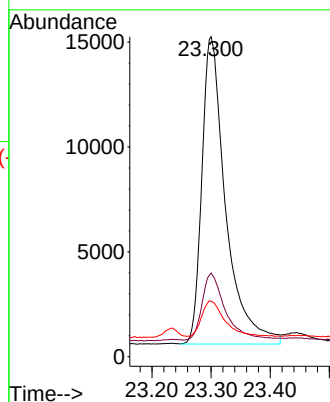
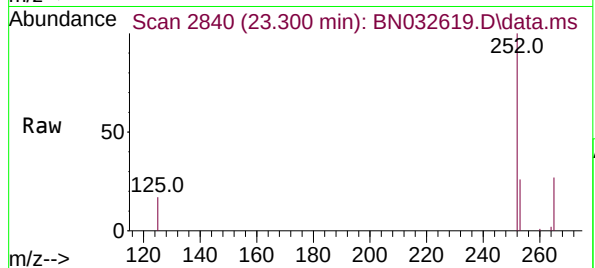
SSTDIC0.8

Tgt Ion:	252	Resp:	4091
Ion Ratio	Lower	Upper	
252	100		
253	26.2	25.8	38.8
125	17.4	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.850 ng

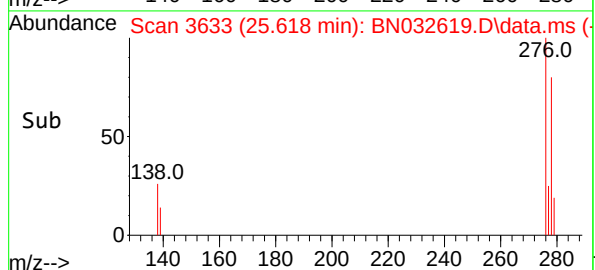
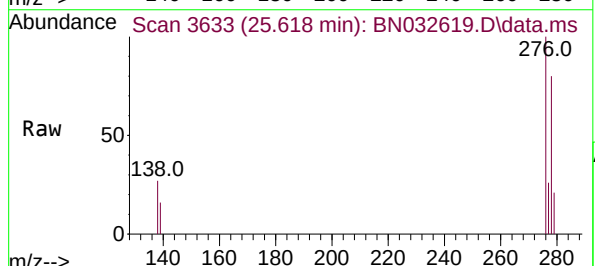
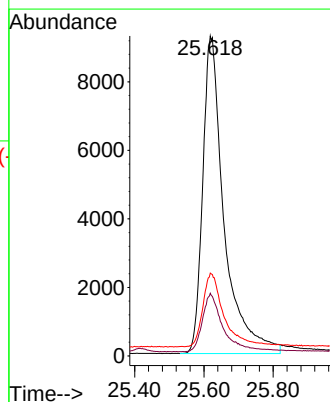
RT: 25.618 min Scan# 3633

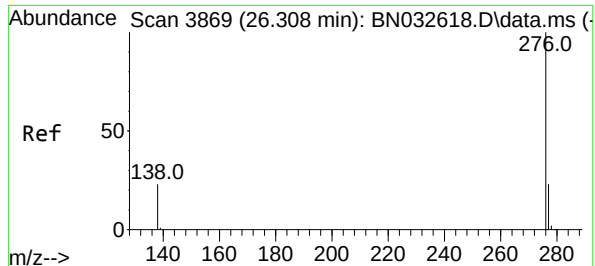
Delta R.T. -0.021 min

Lab File: BN032619.D

Acq: 10 Jul 2024 17:43

Tgt Ion:	278	Resp:	39748
Ion Ratio	Lower	Upper	
278	100		
139	19.6	16.7	25.1
279	25.9	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.846 ng

RT: 26.291 min Scan# 3863

Delta R.T. -0.018 min

Lab File: BN032619.D

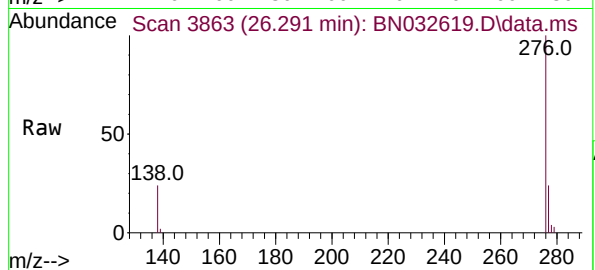
Acq: 10 Jul 2024 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:276 Resp: 43810

Ion Ratio Lower Upper

276 100

277 24.4 20.2 30.2

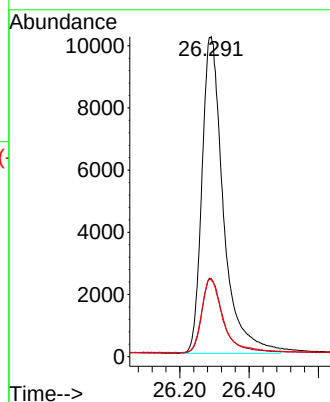
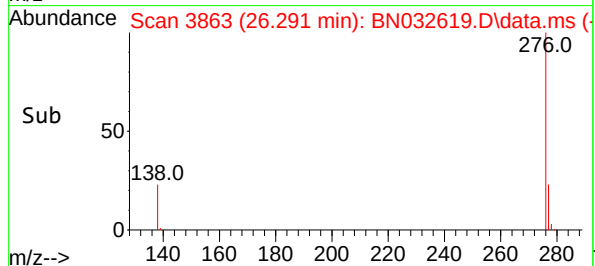
138 24.3 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032620.D
 Acq On : 10 Jul 2024 18:19
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:41:19 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	4922	0.400	ng	0.00
7) Naphthalene-d8	10.336	136	15658	0.400	ng	-0.02
13) Acenaphthene-d10	14.210	164	10493	0.400	ng	0.00
19) Phenanthrene-d10	16.967	188	22082	0.400	ng	-0.01
29) Chrysene-d12	21.184	240	19069	0.400	ng	# 0.00
35) Perylene-d12	23.393	264	17498	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.183	112	19869	1.596	ng	-0.01
5) Phenol-d6	6.765	99	26204	1.696	ng	-0.03
8) Nitrobenzene-d5	8.734	82	20562	1.744	ng	-0.04
11) 2-Methylnaphthalene-d10	11.937	152	40719	1.700	ng	-0.03
14) 2,4,6-Tribromophenol	15.725	330	7668	1.710	ng	-0.01
15) 2-Fluorobiphenyl	12.820	172	64920	1.662	ng	-0.03
27) Fluoranthene-d10	19.007	212	96873	1.696	ng	-0.01
31) Terphenyl-d14	19.616	244	64126	1.641	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.139	88	9373	1.537	ng	97
3) n-Nitrosodimethylamine	3.457	42	8428	1.635	ng	# 98
6) bis(2-Chloroethyl)ether	7.011	93	20757	1.606	ng	# 82
9) Naphthalene	10.378	128	71828	1.657	ng	97
10) Hexachlorobutadiene	10.645	225	13268	1.601	ng	# 99
12) 2-Methylnaphthalene	12.013	142	49169	1.735	ng	97
16) Acenaphthylene	13.932	152	74066	1.735	ng	99
17) Acenaphthene	14.263	154	50852	1.681	ng	99
18) Fluorene	15.268	166	68627	1.698	ng	100
20) 4,6-Dinitro-2-methylph...	15.407	198	5743m	1.497	ng	
21) 4-Bromophenyl-phenylether	16.160	248	21545	1.661	ng	# 90
22) Hexachlorobenzene	16.259	284	24018	1.653	ng	99
23) Atrazine	16.445	200	16618	1.739	ng	97
24) Pentachlorophenol	16.644	266	8802	1.630	ng	98
25) Phenanthrene	17.004	178	103504	1.715	ng	100
26) Anthracene	17.103	178	90439	1.821	ng	99
28) Fluoranthene	19.040	202	126342	1.730	ng	100
30) Pyrene	19.412	202	127819	1.641	ng	99
32) Benzo(a)anthracene	21.166	228	101931	1.691	ng	99
33) Chrysene	21.220	228	120202	1.677	ng	99
34) Bis(2-ethylhexyl)phtha...	21.086	149	54241	1.625	ng	99
36) Indeno(1,2,3-cd)pyrene	25.598	276	114048	1.653	ng	99
37) Benzo(b)fluoranthene	22.724	252	109636	1.799	ng	# 87
38) Benzo(k)fluoranthene	22.768	252	117877	1.670	ng	# 86
39) Benzo(a)pyrene	23.294	252	94036	1.711	ng	# 80
40) Dibenzo(a,h)anthracene	25.604	278	90541	1.662	ng	91
41) Benzo(g,h,i)perylene	26.279	276	97579	1.617	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032620.D
 Acq On : 10 Jul 2024 18:19
 Operator : MA/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

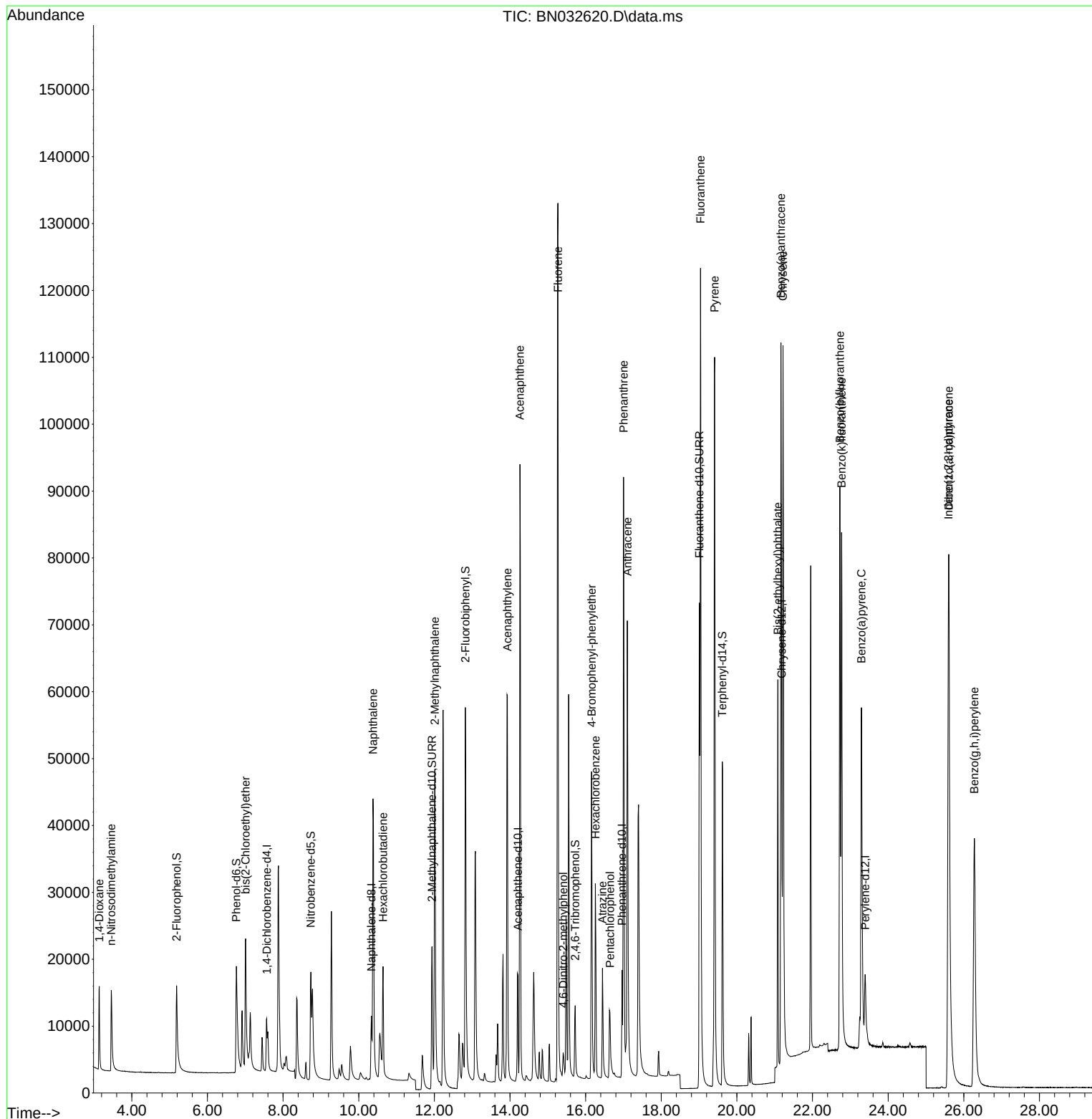
Quant Time: Jul 10 23:41:19 2024

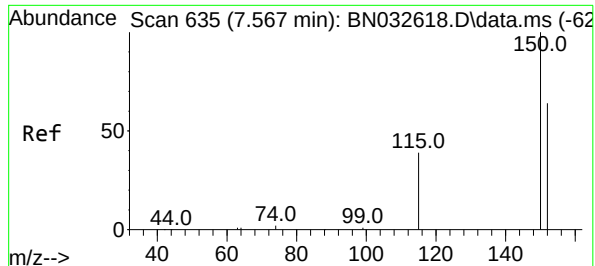
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

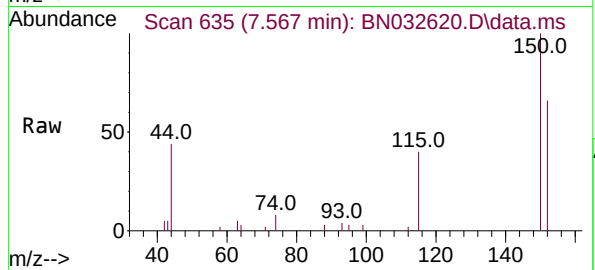
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

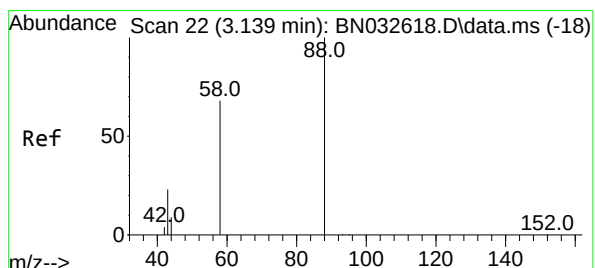
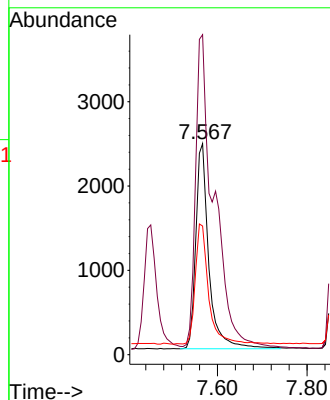
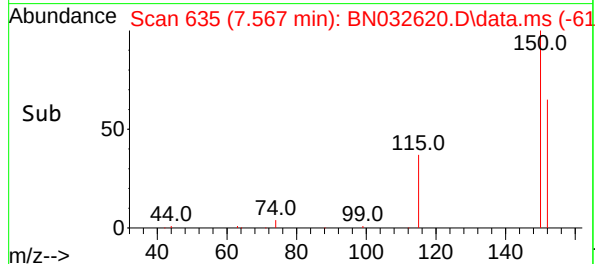
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion: 152 Resp: 492
Ion Ratio Lower Upper
152 100
150 151.7 123.8 185.6
115 61.0 52.8 79.2

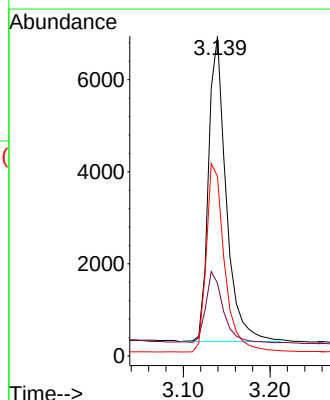
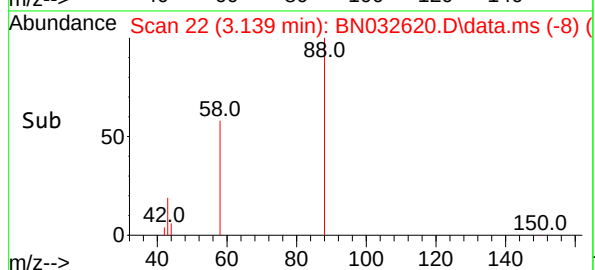
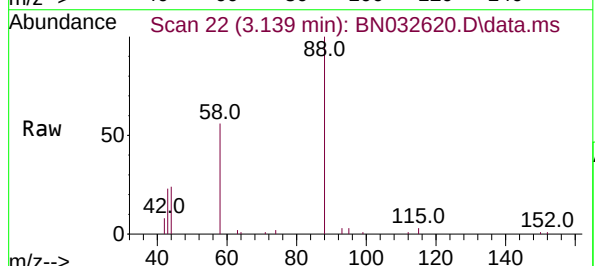
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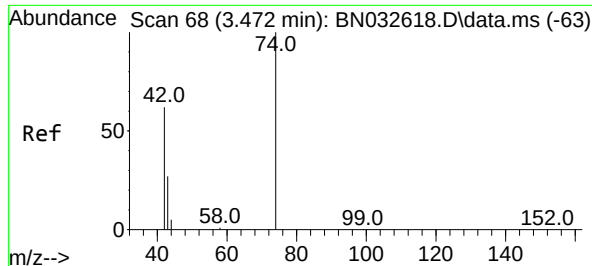
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 1.537 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 88 Resp: 9373
Ion Ratio Lower Upper
88 100
43 22.9 18.4 27.6
58 64.1 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 1.635 ng
RT: 3.457 min Scan# 60
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

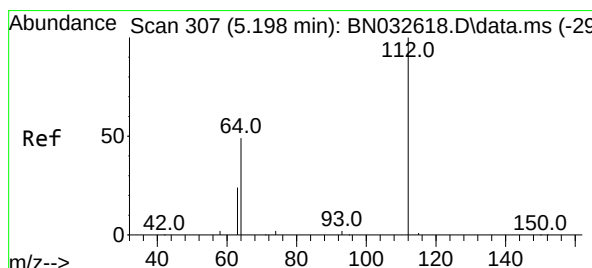
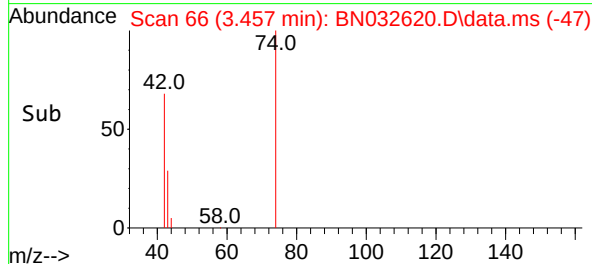
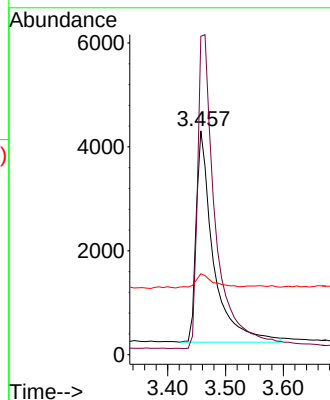
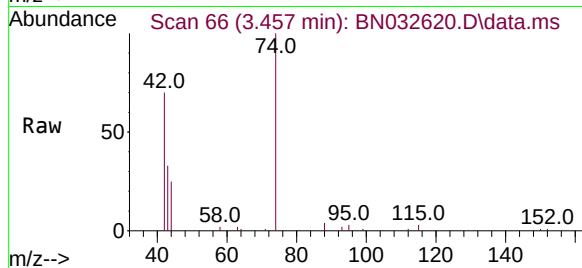
ClientSampleId :

SSTDICC1.6

Tgt Ion:	42	Resp:	842
Ion Ratio	Lower	Upper	
42	100		
74	156.7	126.9	190.3
44	7.3	4.8	7.2

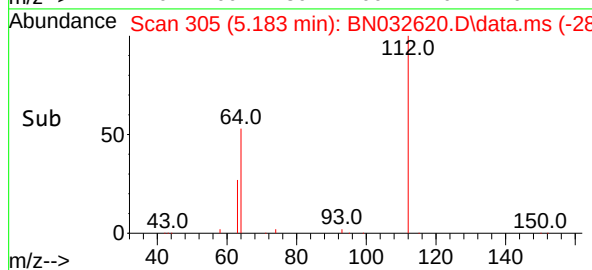
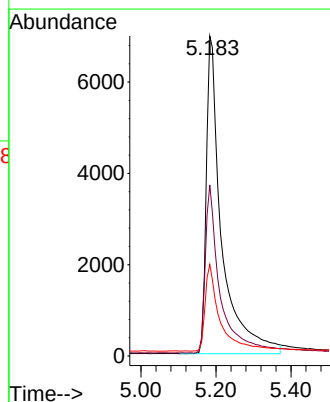
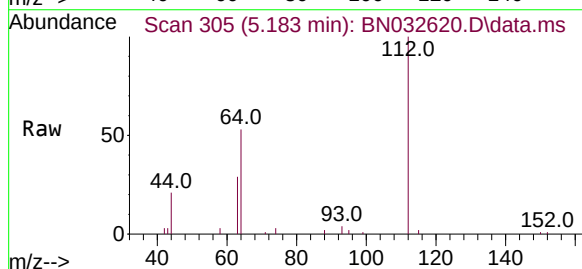
Manual Integrations
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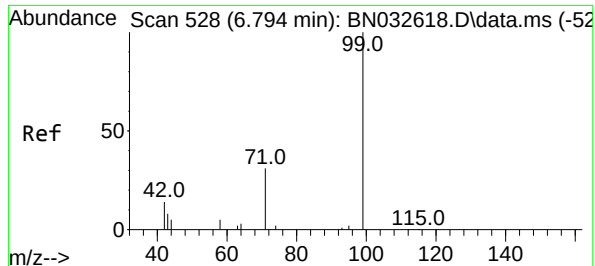
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 1.596 ng
RT: 5.183 min Scan# 305
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:	112	Resp:	19869
Ion Ratio	Lower	Upper	
112	100		
64	51.2	40.2	60.4
63	26.6	22.2	33.4





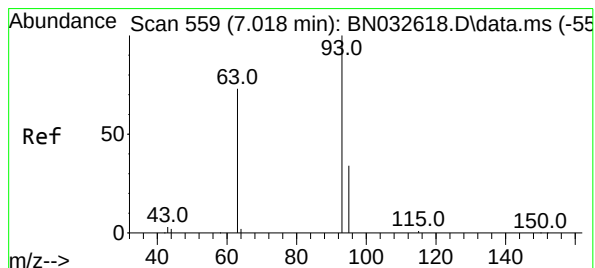
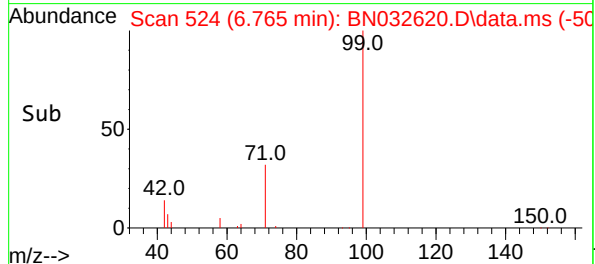
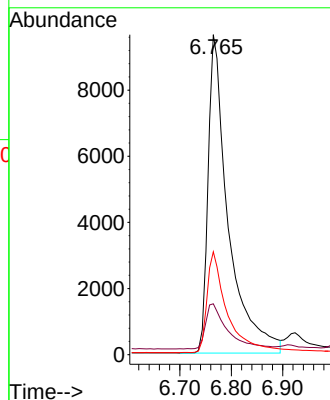
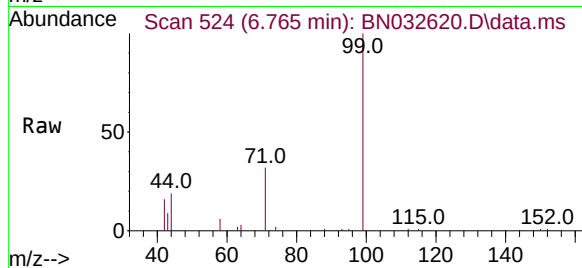
#5
Phenol-d6
Concen: 1.696 ng
RT: 6.765 min Scan# 51
Delta R.T. -0.029 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 26204
Ion Ratio Lower Upper
99 100
42 15.3 10.5 15.7
71 33.2 22.3 33.5

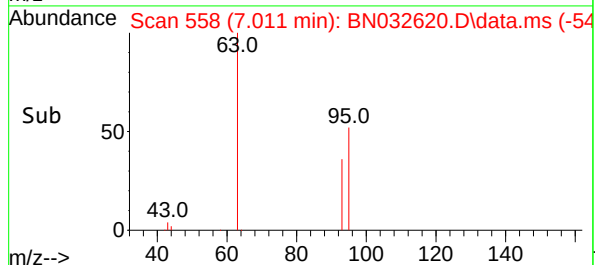
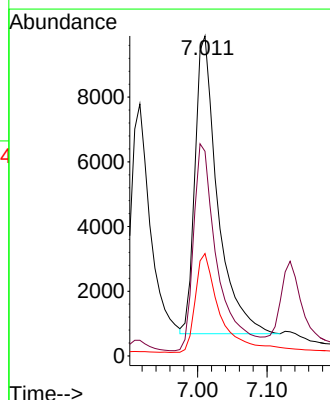
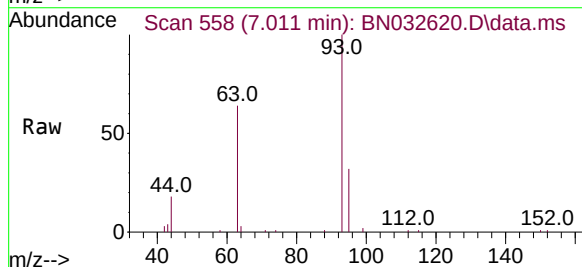
Manual Integrations
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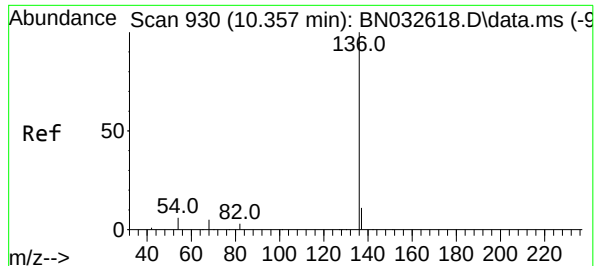
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 1.606 ng
RT: 7.011 min Scan# 558
Delta R.T. -0.007 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 93 Resp: 20757
Ion Ratio Lower Upper
93 100
63 73.2 46.4 69.6#
95 38.9 25.5 38.3#





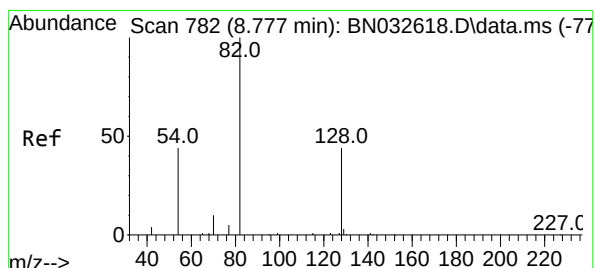
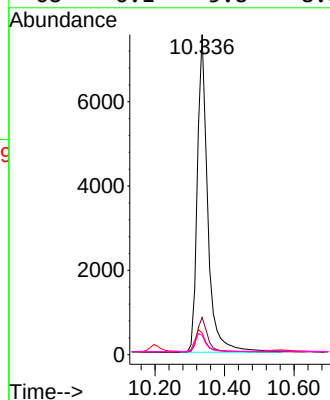
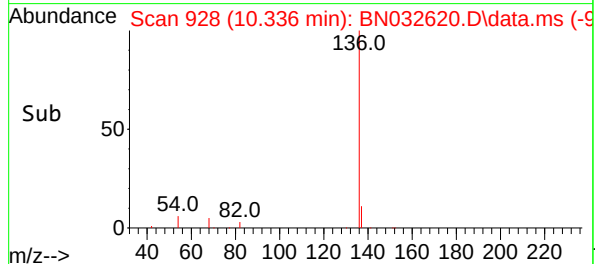
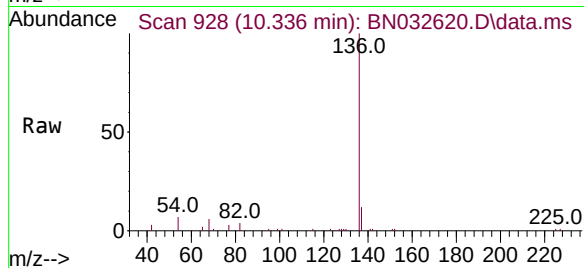
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.336 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 1565
Ion Ratio Lower Upper
136 100
137 11.6 9.9 14.9
54 6.8 6.5 9.7
68 6.1 5.8 8.8

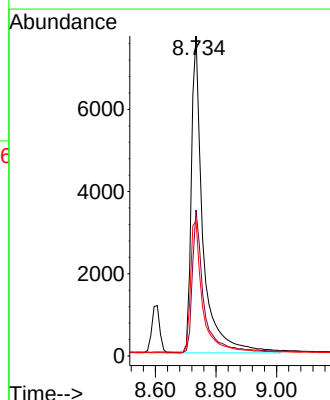
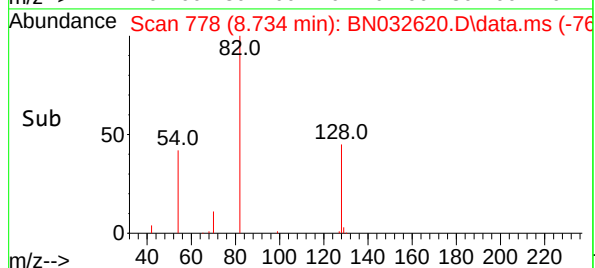
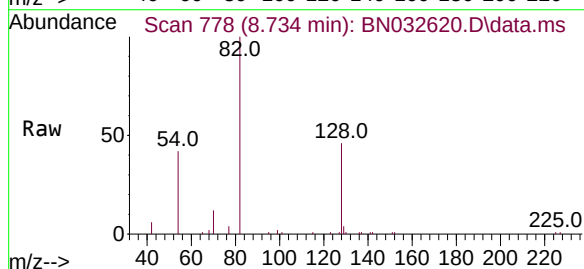
Manual Integrations
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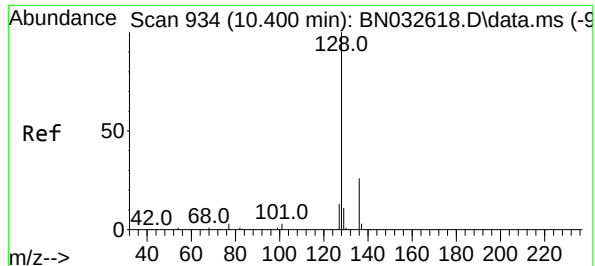
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 1.744 ng
RT: 8.734 min Scan# 778
Delta R.T. -0.043 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion: 82 Resp: 20562
Ion Ratio Lower Upper
82 100
128 45.6 41.7 62.5
54 42.2 39.5 59.3





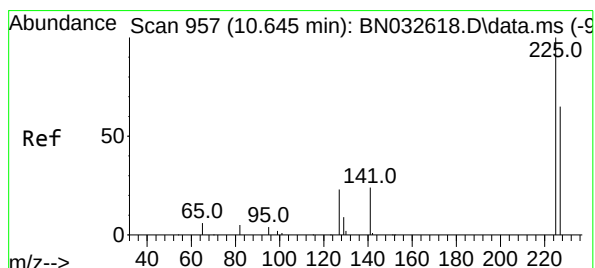
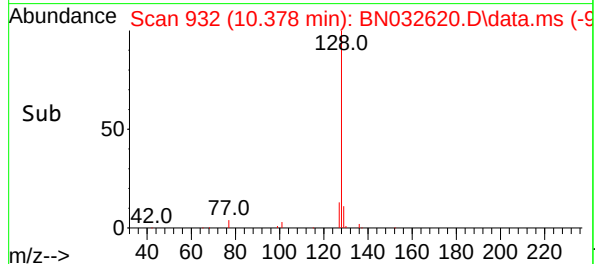
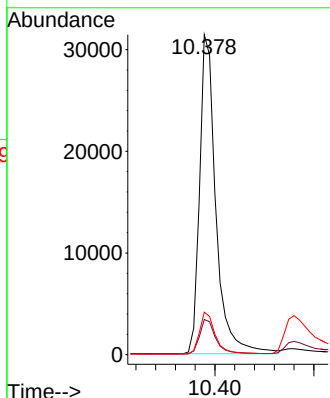
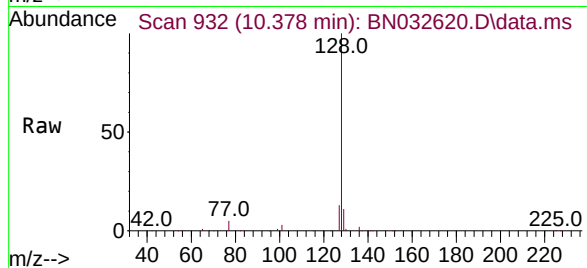
#9
Naphthalene
Concen: 1.657 ng
RT: 10.378 min Scan# 912
Delta R.T. -0.021 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 71828
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.8
127 13.3 11.5 17.3

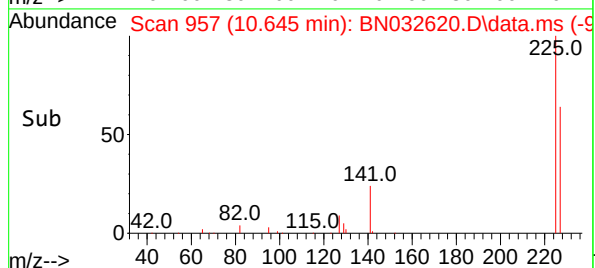
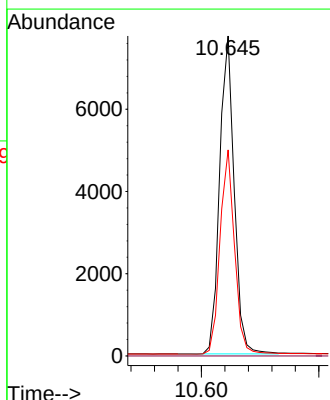
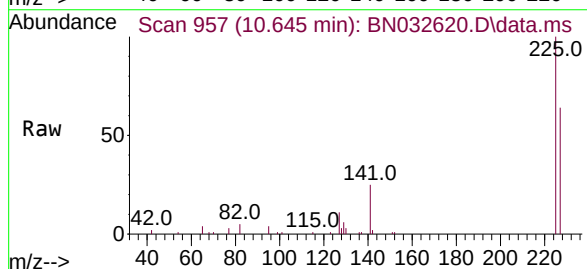
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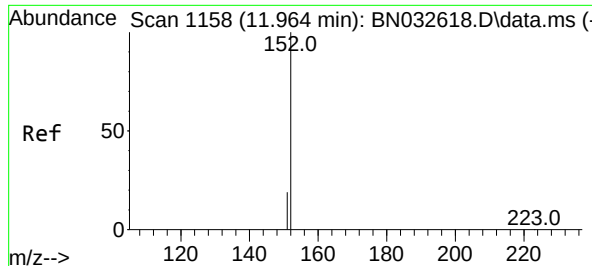
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 1.601 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

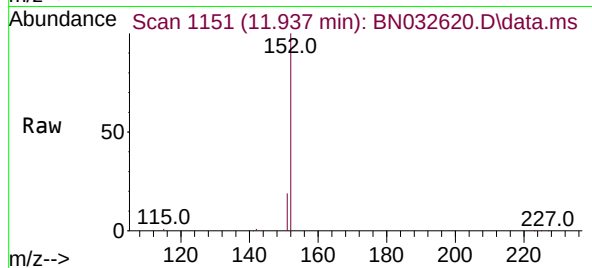
Tgt Ion:225 Resp: 13268
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 1.700 ng
RT: 11.937 min Scan# 1151
Delta R.T. -0.026 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

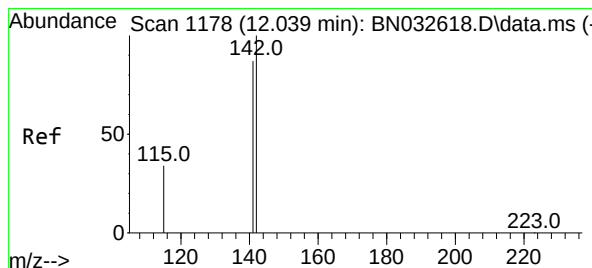
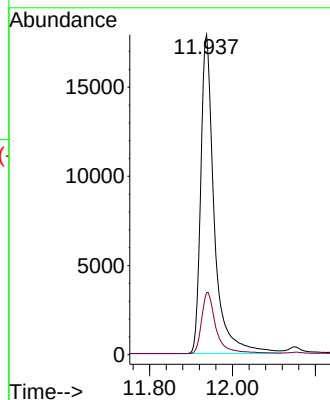
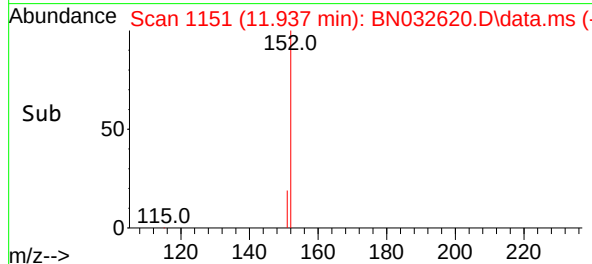
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:152 Resp: 40719
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

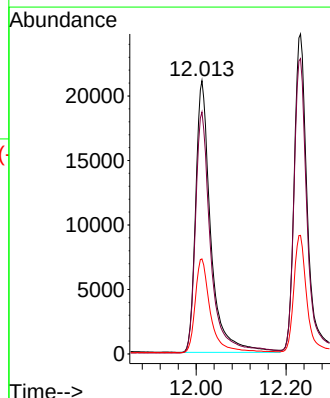
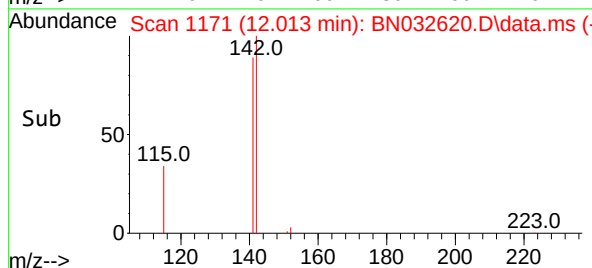
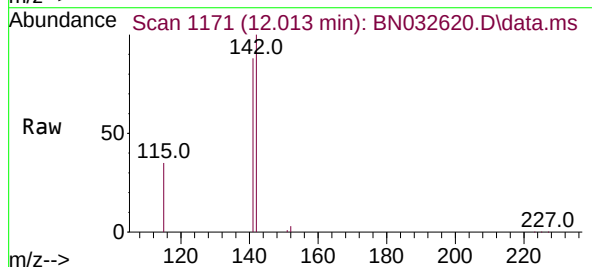
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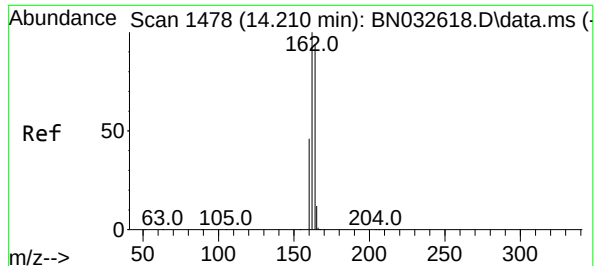
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 1.735 ng
RT: 12.013 min Scan# 1171
Delta R.T. -0.026 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

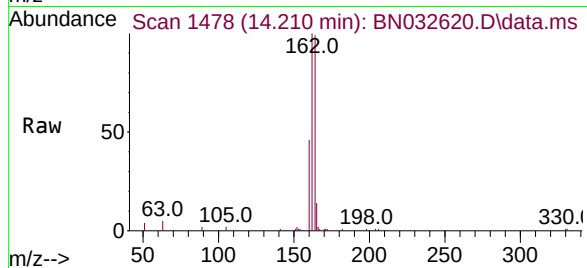
Tgt Ion:142 Resp: 49169
Ion Ratio Lower Upper
142 100
141 88.5 69.3 103.9
115 34.8 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. -0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

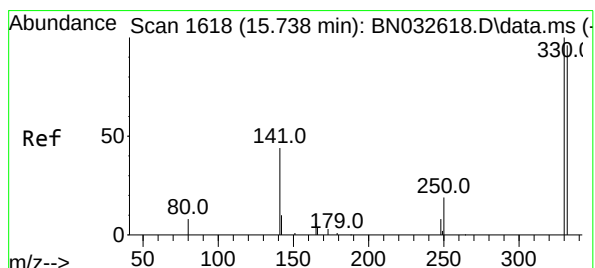
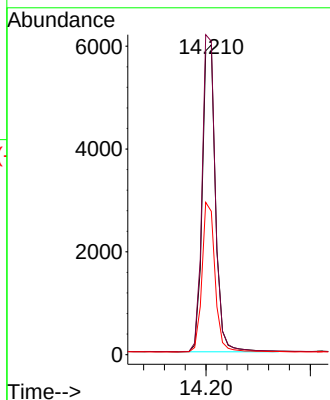
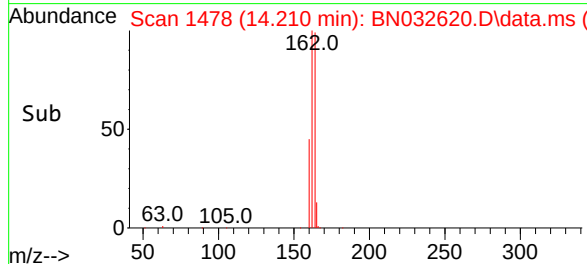
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



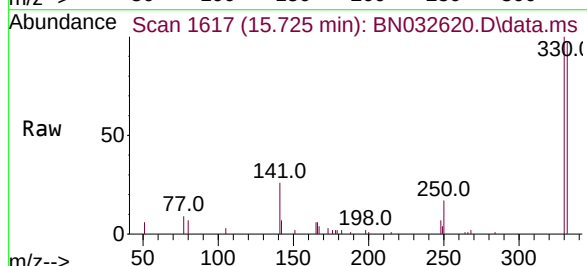
Tgt Ion:164 Resp: 1049
Ion Ratio Lower Upper
164 100
162 101.2 85.0 127.4
160 46.3 39.4 59.2

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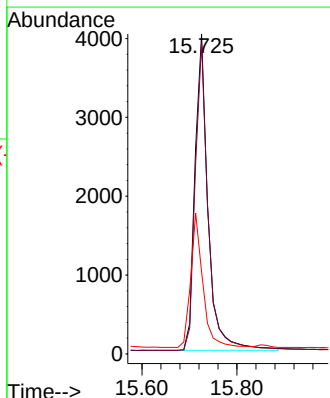
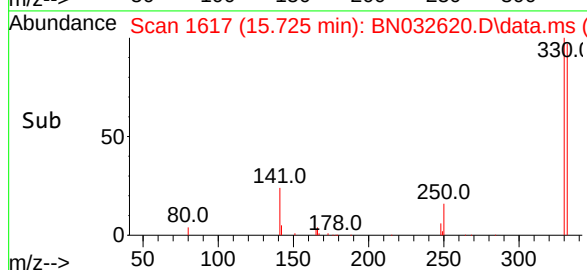
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

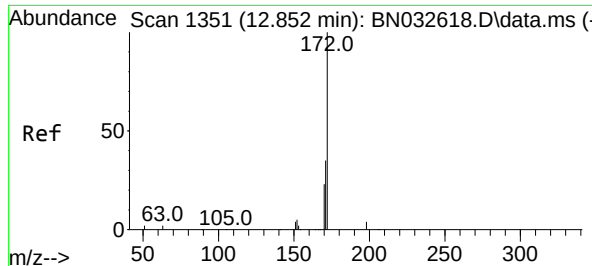


#14
2,4,6-Tribromophenol
Concen: 1.710 ng
RT: 15.725 min Scan# 1617
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19



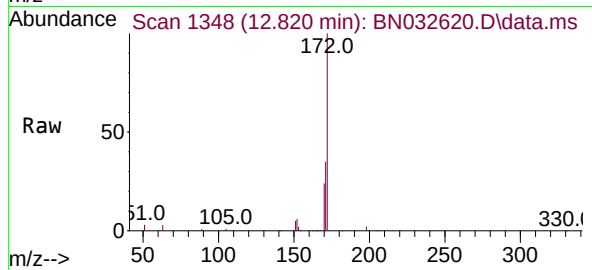
Tgt Ion:330 Resp: 7668
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.8
141 39.6 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 1.662 ng
RT: 12.820 min Scan# 1348
Delta R.T. -0.032 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

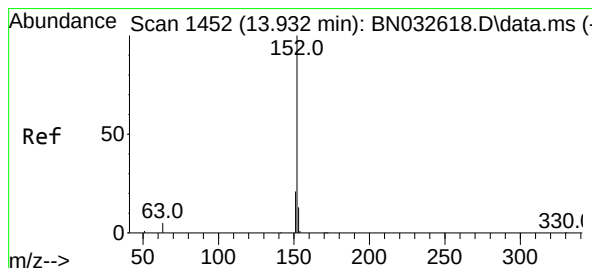
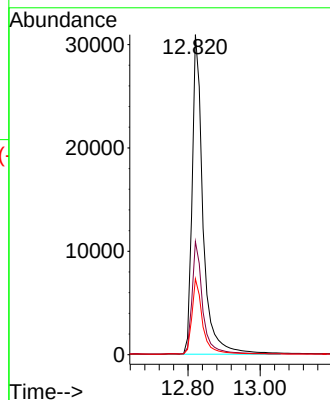
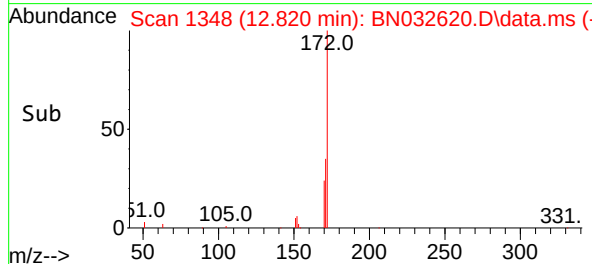
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6



Tgt Ion:172 Resp: 64920
Ion Ratio Lower Upper
172 100
171 35.4 28.6 43.0
170 23.7 19.0 28.6

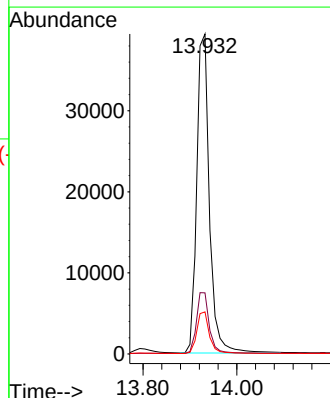
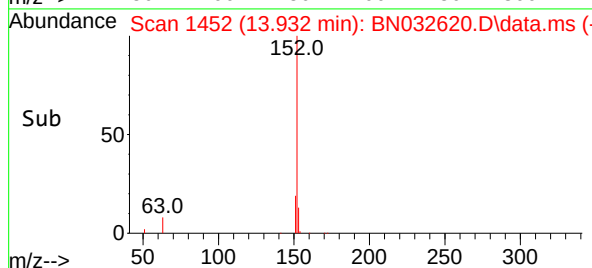
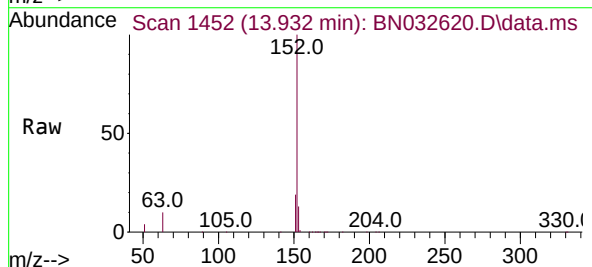
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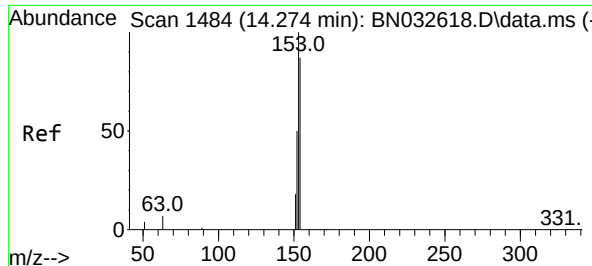
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 1.735 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:152 Resp: 74066
Ion Ratio Lower Upper
152 100
151 19.5 16.0 24.0
153 13.0 10.6 15.8





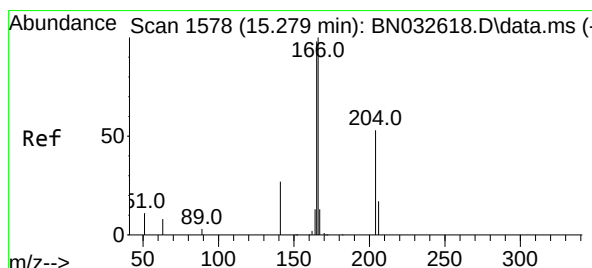
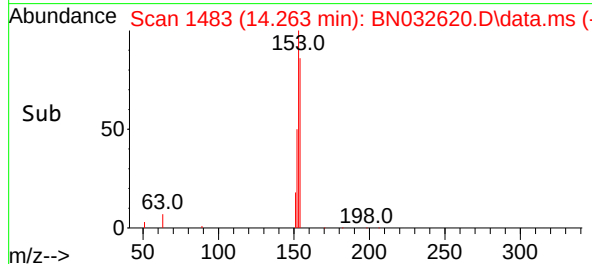
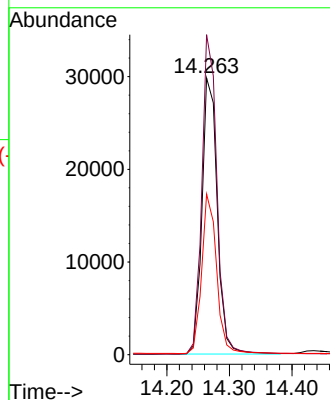
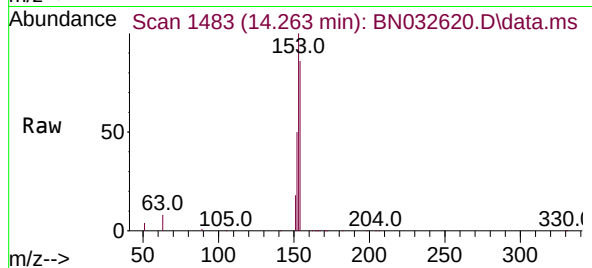
#17
Acenaphthene
Concen: 1.681 ng
RT: 14.263 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 50852
Ion Ratio Lower Upper
154 100
153 113.7 91.8 137.8
152 56.0 45.2 67.8

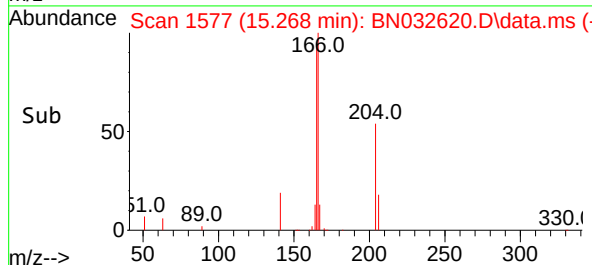
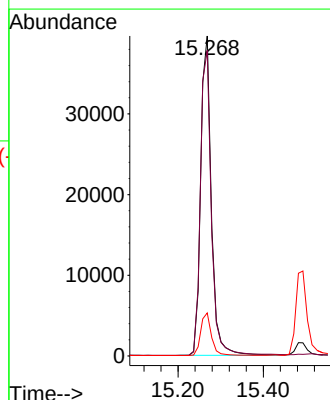
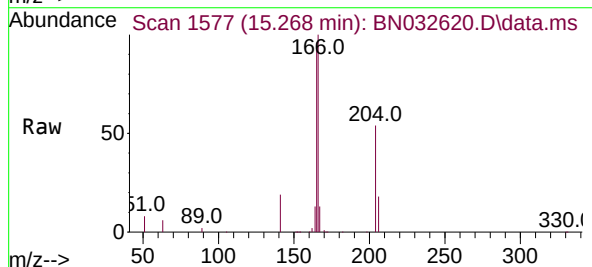
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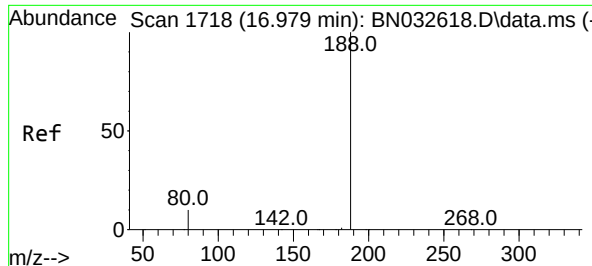
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 1.698 ng
RT: 15.268 min Scan# 1577
Delta R.T. -0.011 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:166 Resp: 68627
Ion Ratio Lower Upper
166 100
165 98.0 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:188 Resp: 2208

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

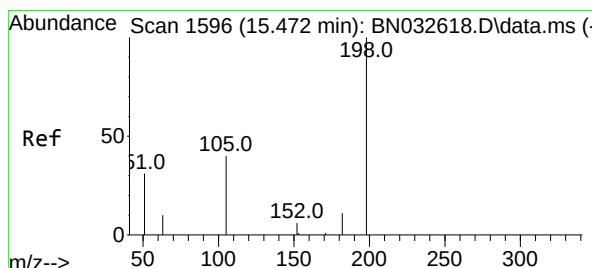
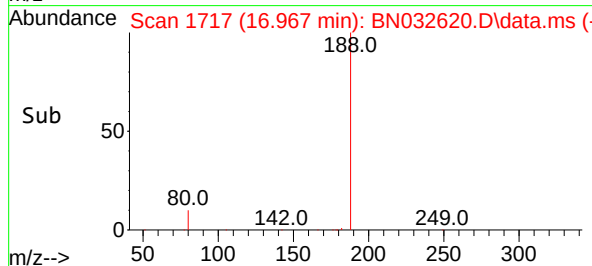
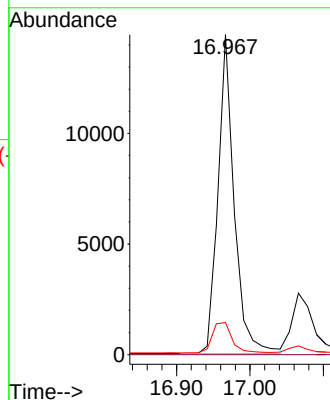
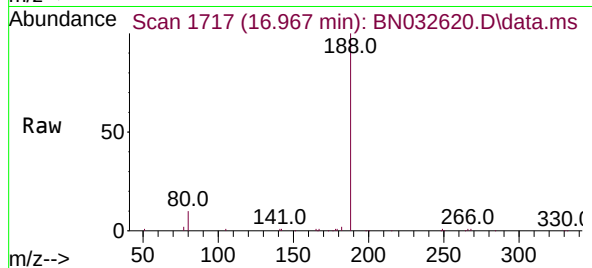
80 10.1 8.8 13.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 1.497 ng m

RT: 15.407 min Scan# 1590

Delta R.T. -0.065 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

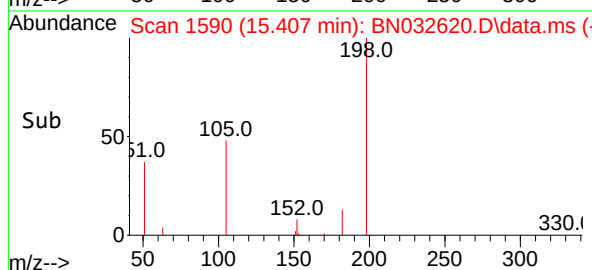
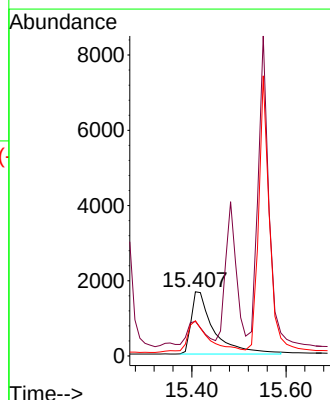
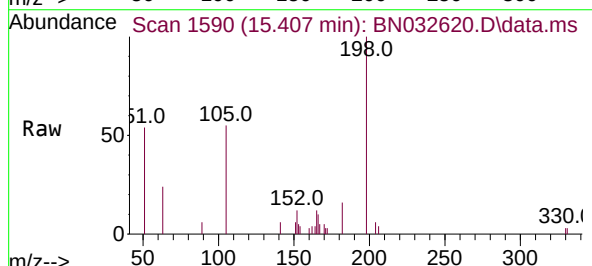
Tgt Ion:198 Resp: 5743

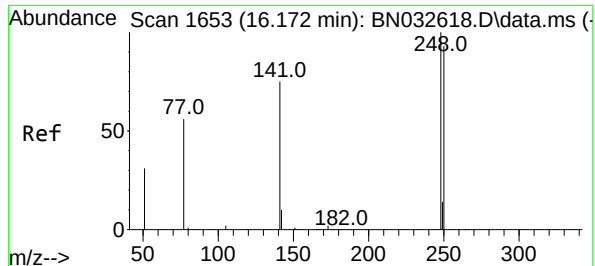
Ion Ratio Lower Upper

198 100

51 53.9 105.7 158.5#

105 54.8 63.0 94.6#





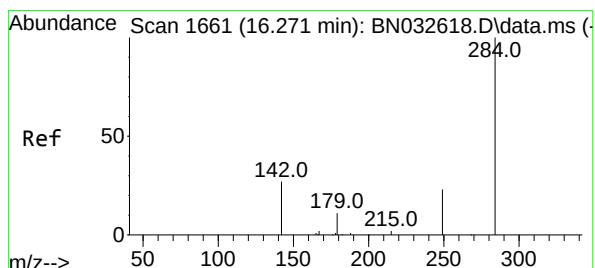
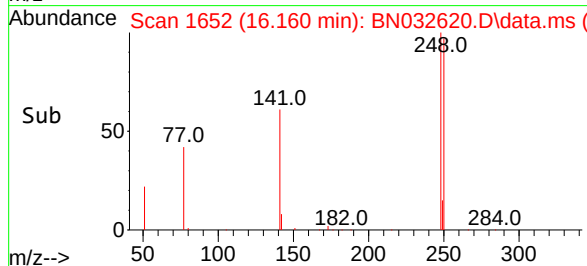
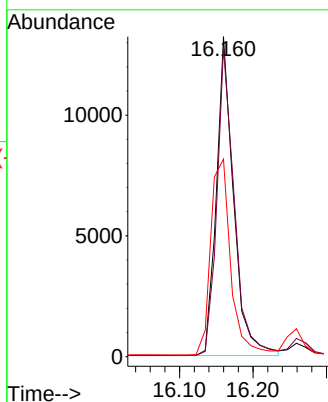
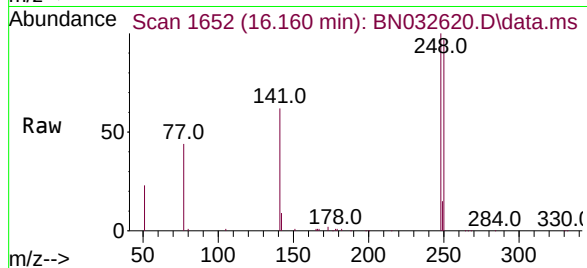
#21
4-Bromophenyl-phenylether
Concen: 1.661 ng
RT: 16.160 min Scan# 1653
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 2154
Ion Ratio Lower Upper
248 100
250 96.6 75.1 112.7
141 61.8 62.0 93.0

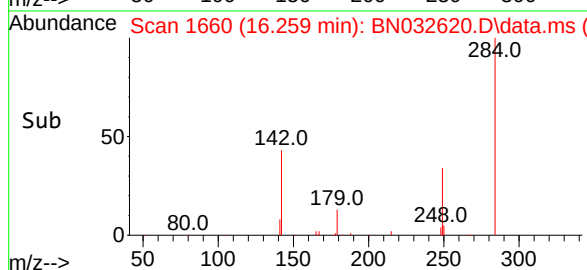
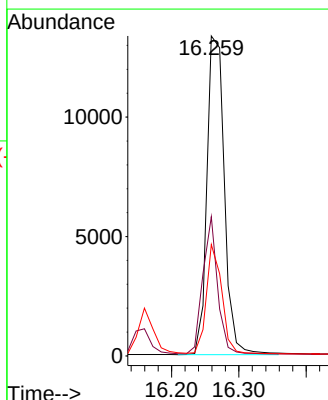
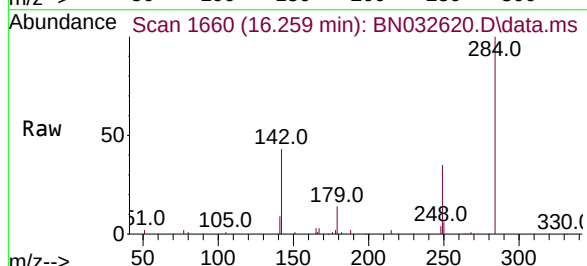
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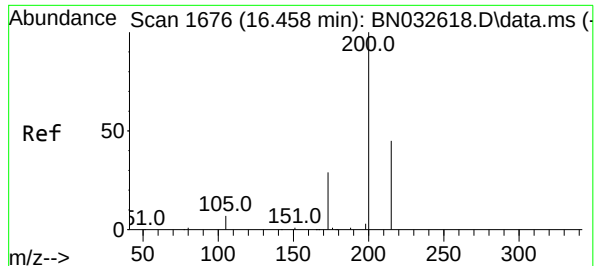
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 1.653 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:284 Resp: 24018
Ion Ratio Lower Upper
284 100
142 36.3 29.4 44.0
249 30.4 24.6 36.8





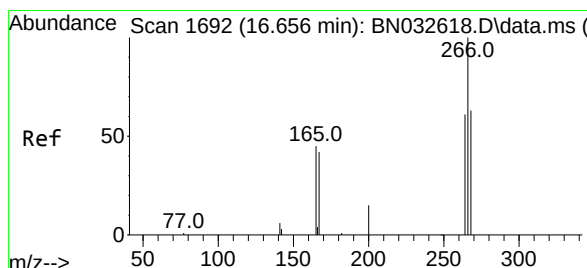
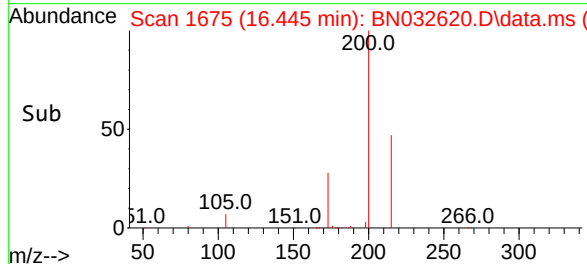
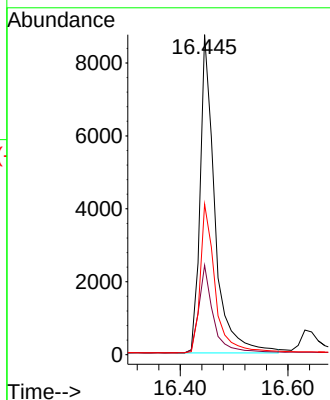
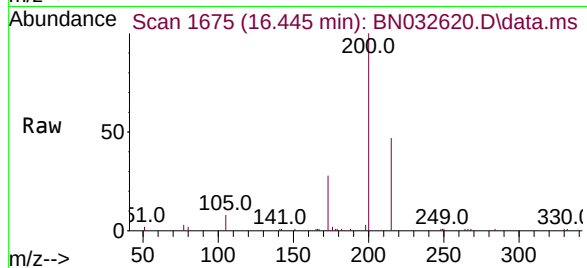
#23
Atrazine
Concen: 1.739 ng
RT: 16.445 min Scan# 16618
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 16618
Ion Ratio Lower Upper
200 100
173 28.0 25.4 38.2
215 47.0 38.2 57.2

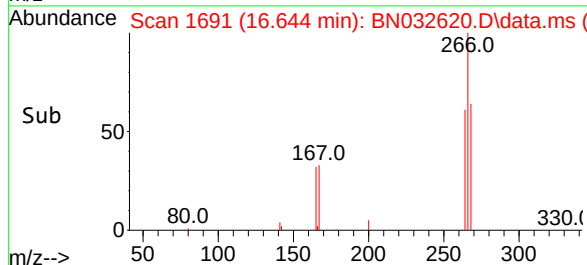
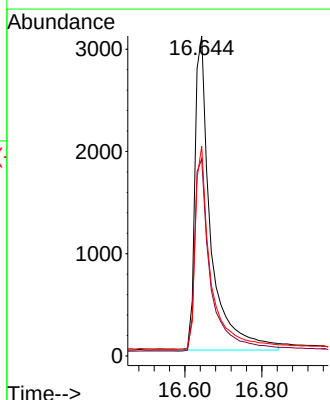
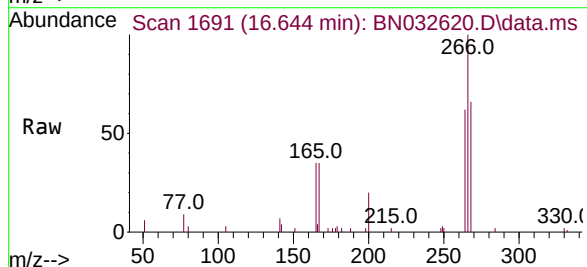
Manual Integrations
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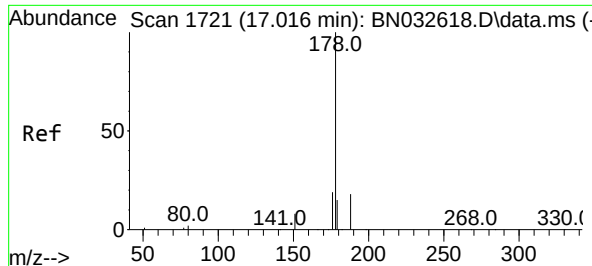
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 1.630 ng
RT: 16.644 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:266 Resp: 8802
Ion Ratio Lower Upper
266 100
264 62.5 50.2 75.2
268 63.6 52.8 79.2





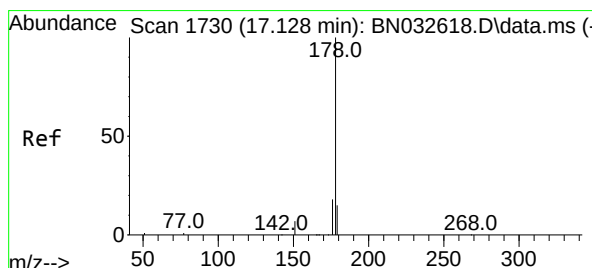
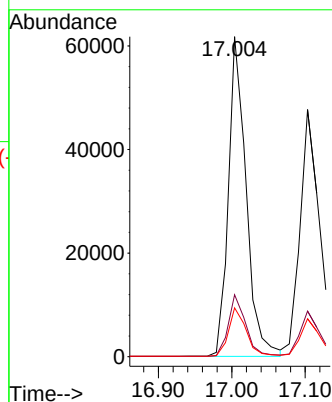
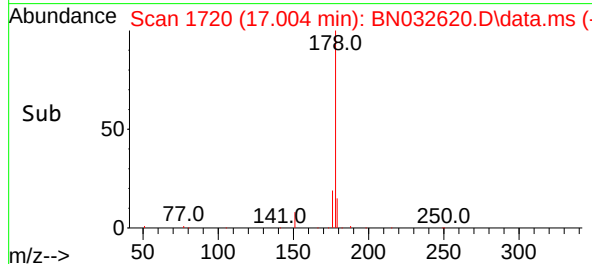
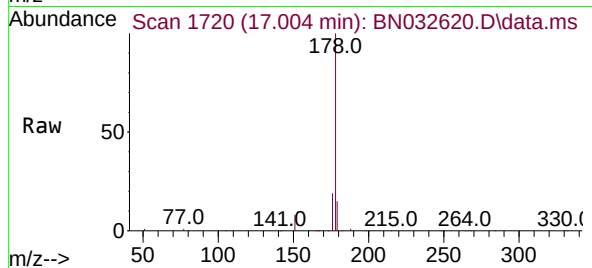
#25
Phenanthrene
Concen: 1.715 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 103504
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.2 12.2 18.4

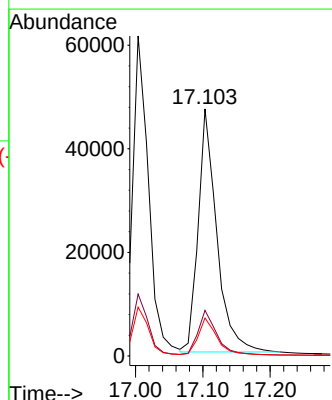
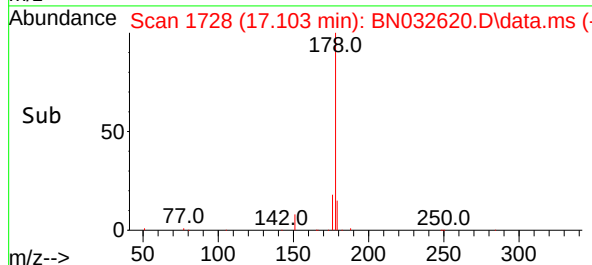
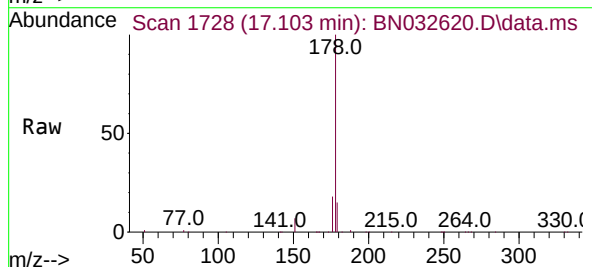
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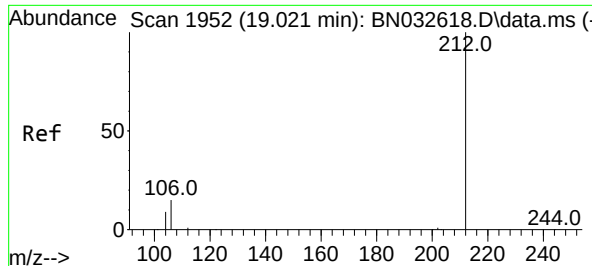
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 1.821 ng
RT: 17.103 min Scan# 1728
Delta R.T. -0.025 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion:178 Resp: 90439
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 1.696 ng

RT: 19.007 min Scan# 1949

Delta R.T. -0.014 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

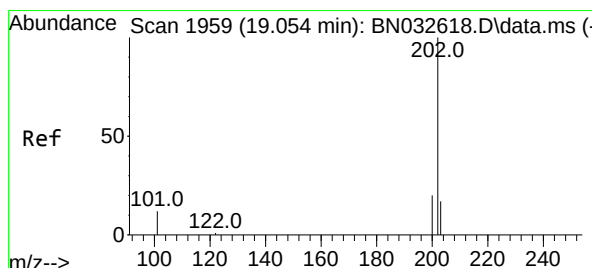
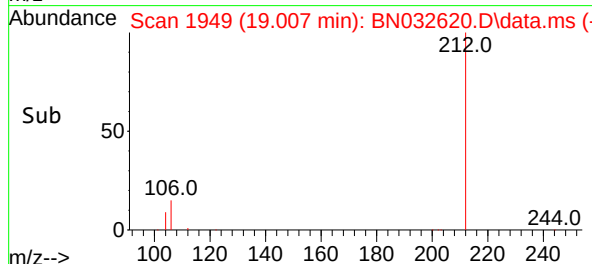
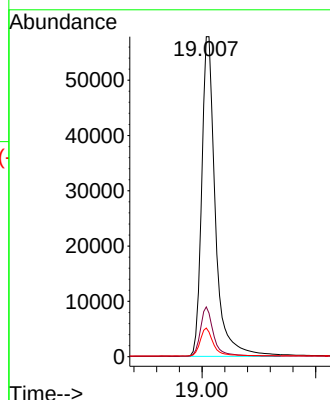
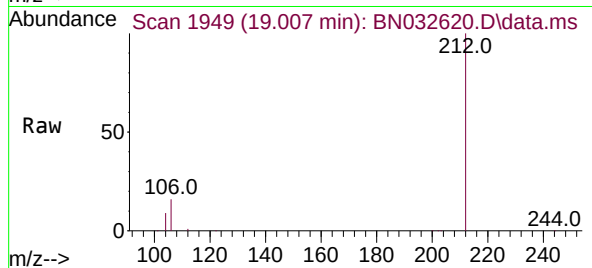
Tgt Ion:	212	Resp:	9687
Ion Ratio	Lower	Upper	
212	100		
106	14.9	11.9	17.9
104	8.5	6.9	10.3

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 1.730 ng

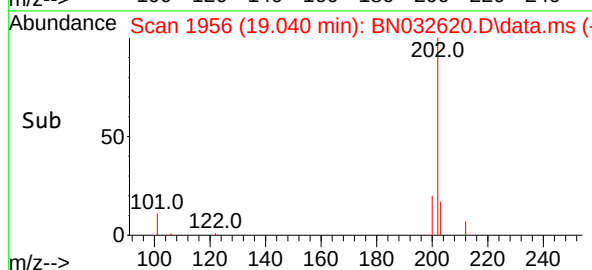
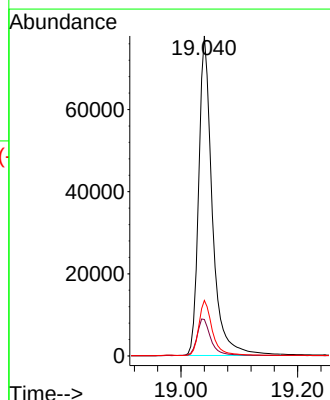
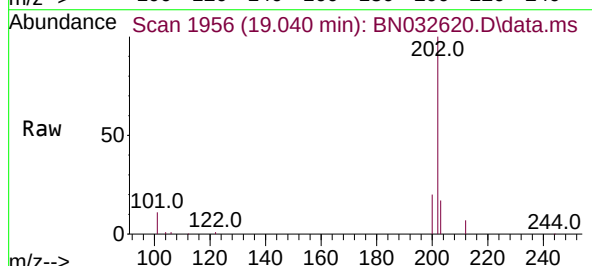
RT: 19.040 min Scan# 1956

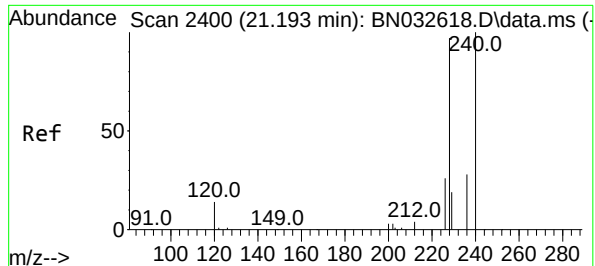
Delta R.T. -0.014 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Tgt Ion:	202	Resp:	126342
Ion Ratio	Lower	Upper	
202	100		
101	11.7	9.6	14.4
203	17.1	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.184 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

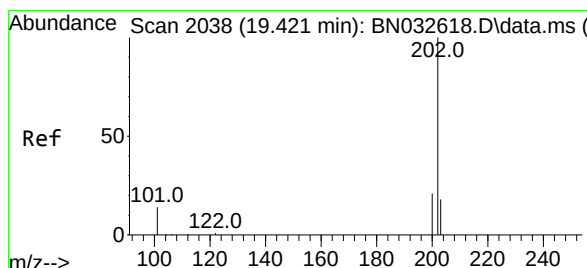
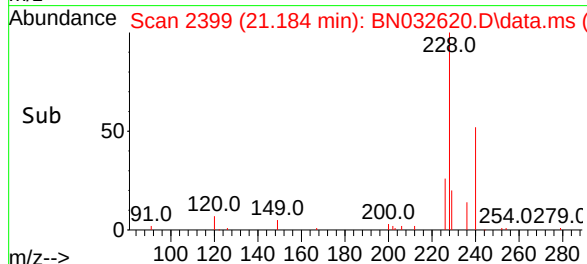
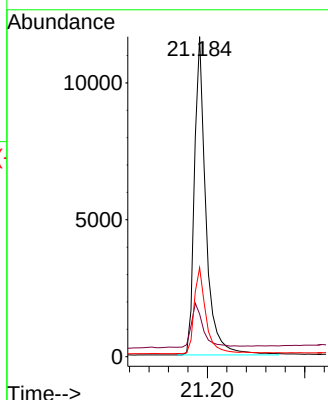
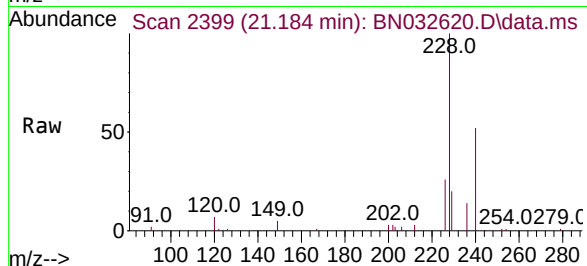
SSTDICC1.6

Tgt Ion:240	Resp:	19069
Ion Ratio	Lower	Upper
240	100	
120	13.3	14.8 22.2
236	27.8	23.3 34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 1.641 ng

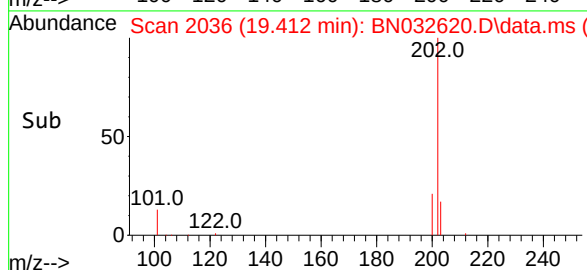
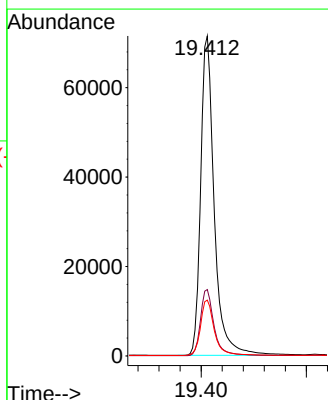
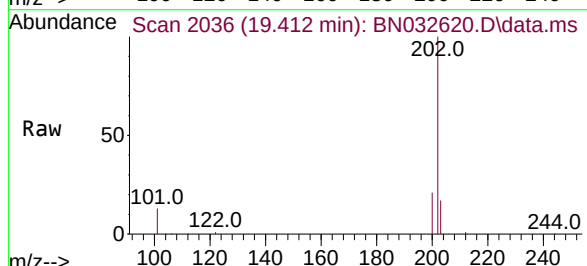
RT: 19.412 min Scan# 2036

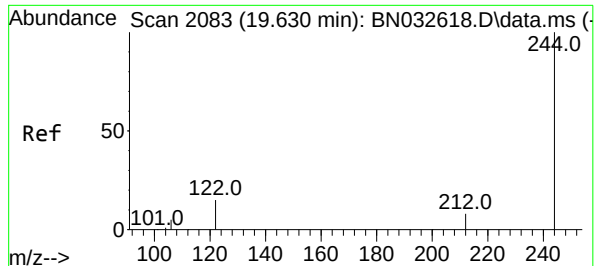
Delta R.T. -0.009 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Tgt Ion:202	Resp:	127819
Ion Ratio	Lower	Upper
202	100	
200	20.7	16.6 25.0
203	17.8	14.8 22.2





#31
Terphenyl-d14
Concen: 1.641 ng
RT: 19.616 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

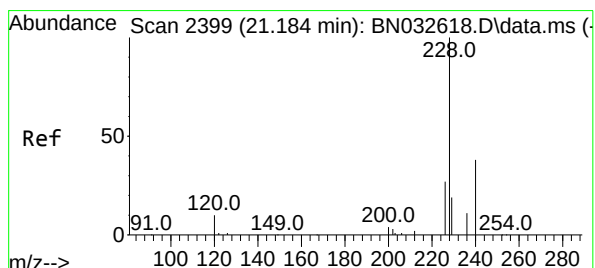
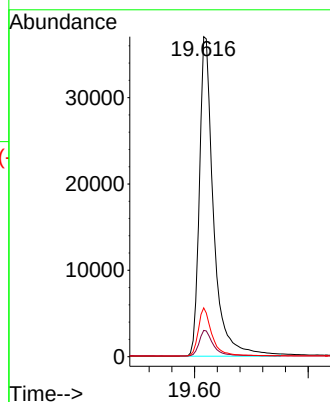
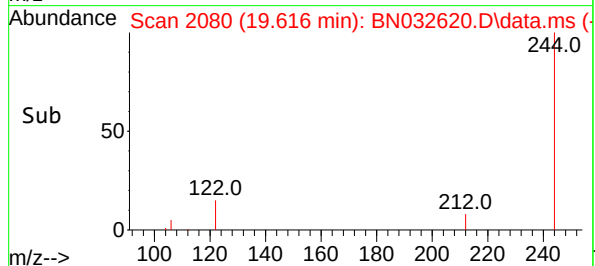
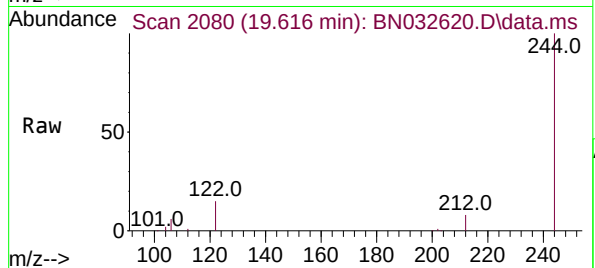
ClientSampleId :

SSTDICC1.6

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	7.5	11.3
122	15.2	12.6	19.0

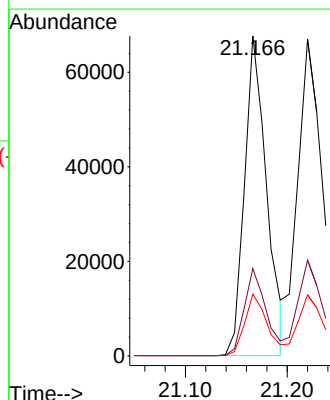
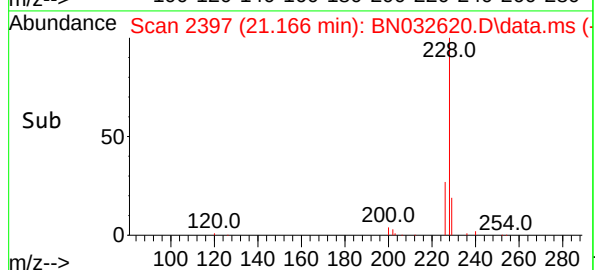
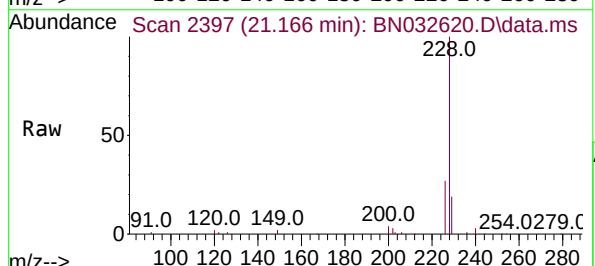
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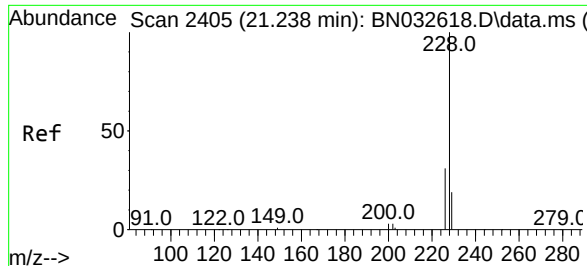
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 1.691 ng
RT: 21.166 min Scan# 2397
Delta R.T. -0.018 min
Lab File: BN032620.D
Acq: 10 Jul 2024 18:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.6
229	19.3	16.0	24.0





#33

Chrysene

Concen: 1.677 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:228 Resp: 12020

Ion Ratio Lower Upper

228 100

226 30.2 24.2 36.2

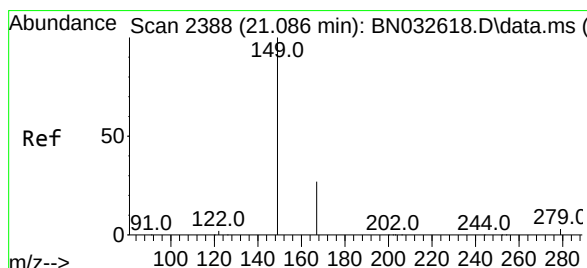
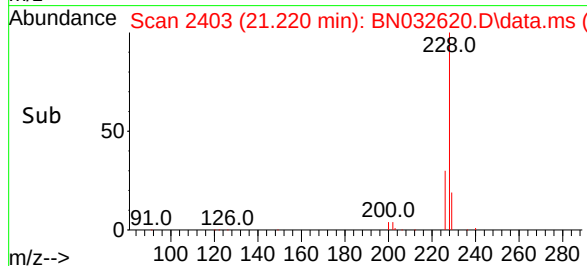
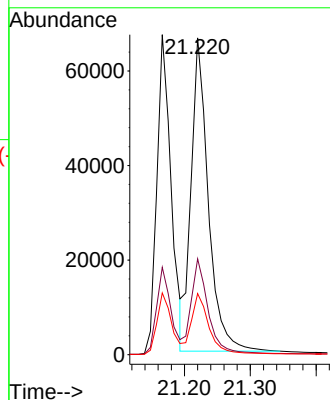
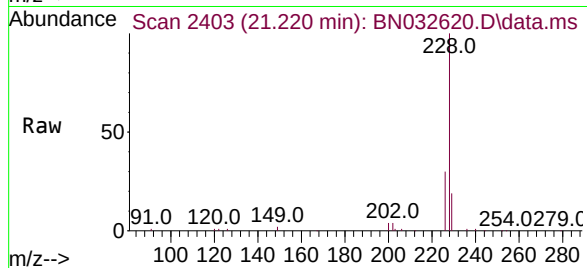
229 19.3 16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.625 ng

RT: 21.086 min Scan# 2388

Delta R.T. -0.000 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

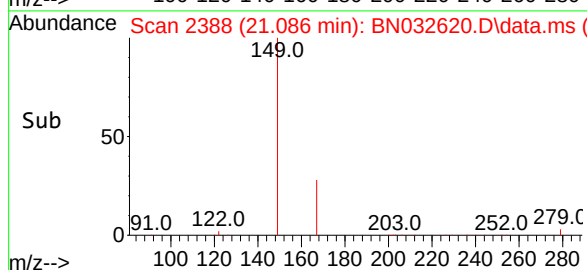
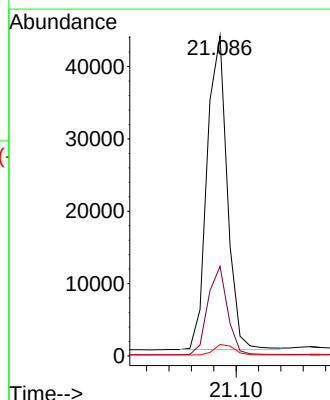
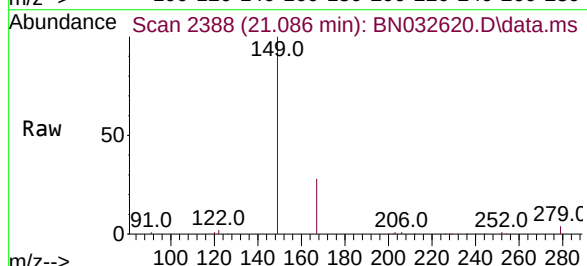
Tgt Ion:149 Resp: 54241

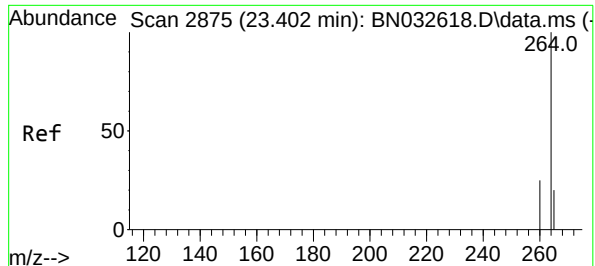
Ion Ratio Lower Upper

149 100

167 27.5 21.4 32.2

279 3.4 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.393 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032620.D

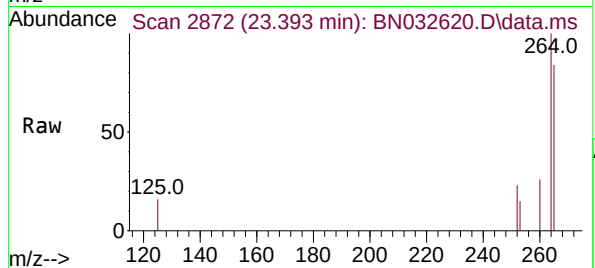
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:264 Resp: 17498

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

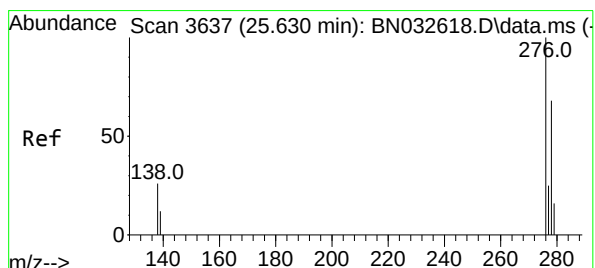
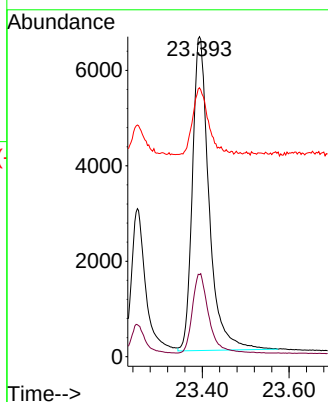
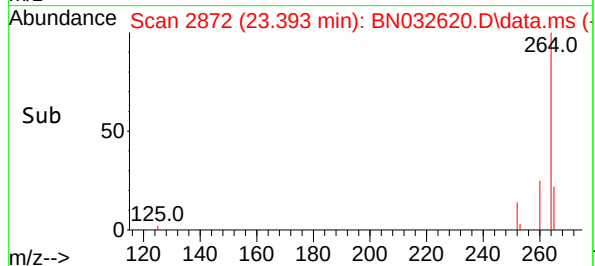
265 84.1 85.4 128.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.653 ng

RT: 25.598 min Scan# 3626

Delta R.T. -0.032 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

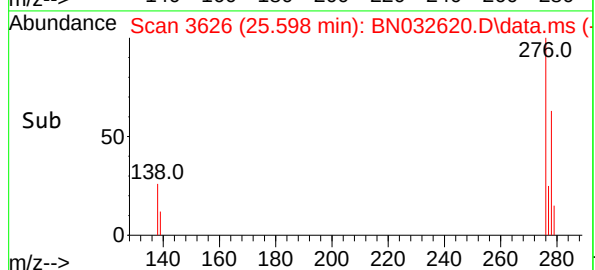
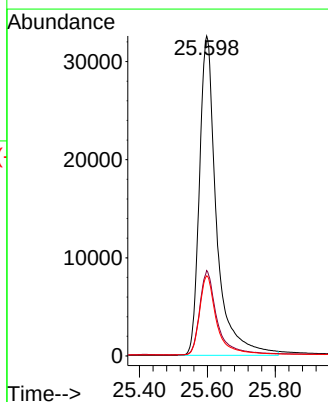
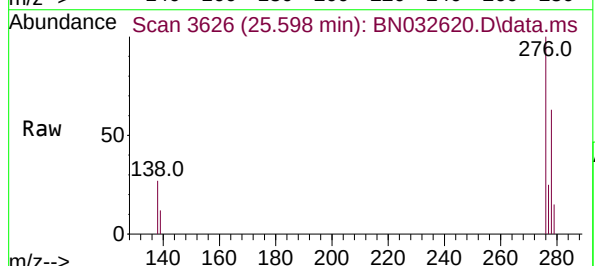
Tgt Ion:276 Resp: 114048

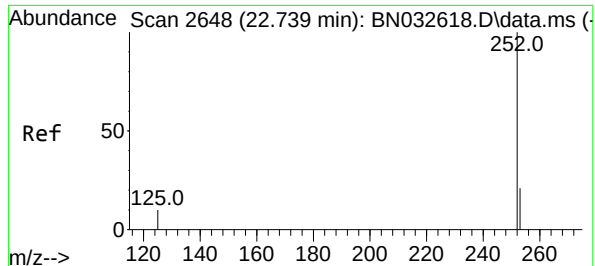
Ion Ratio Lower Upper

276 100

138 27.1 21.0 31.4

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.799 ng

RT: 22.724 min Scan# 2643

Delta R.T. -0.015 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

Tgt Ion:252 Resp: 109630

Ion Ratio Lower Upper

252 100

253 22.4 22.3 33.5

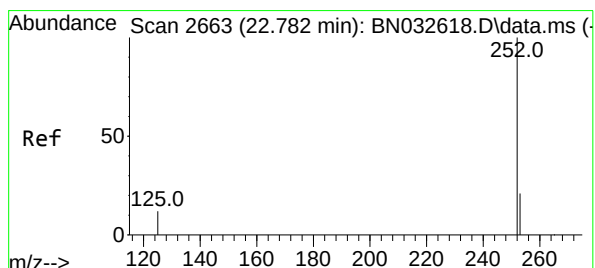
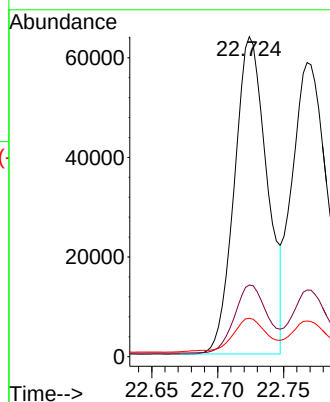
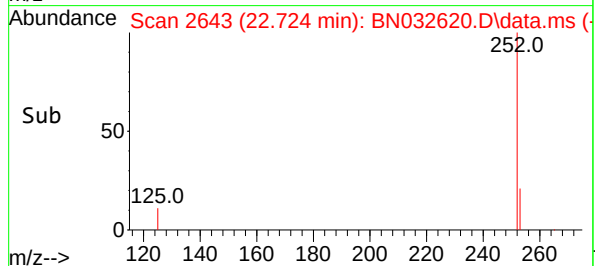
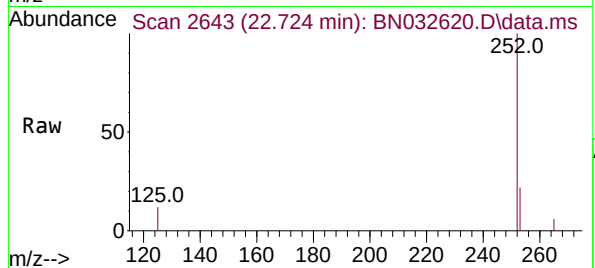
125 12.0 15.4 23.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 1.670 ng

RT: 22.768 min Scan# 2658

Delta R.T. -0.015 min

Lab File: BN032620.D

Acq: 10 Jul 2024 18:19

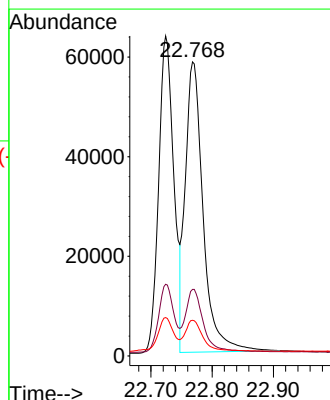
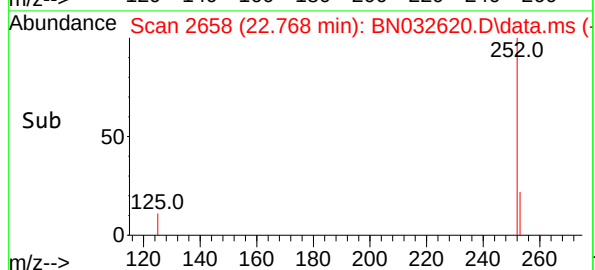
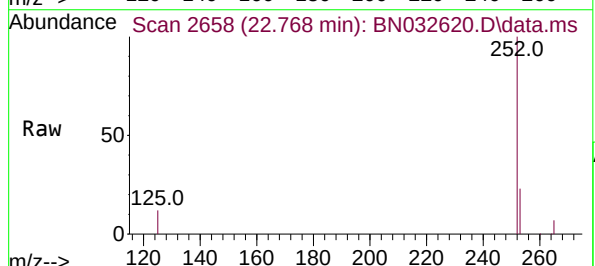
Tgt Ion:252 Resp: 117877

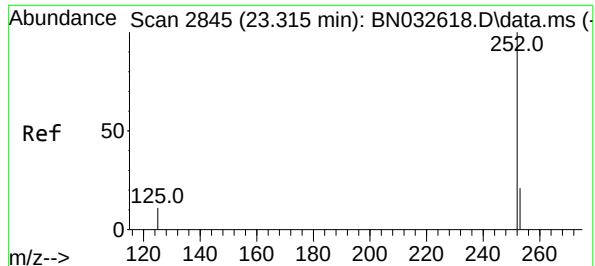
Ion Ratio Lower Upper

252 100

253 22.7 22.6 34.0

125 12.1 16.2 24.4





#39

Benzo(a)pyrene

Concen: 1.711 ng

RT: 23.294 min Scan# 2838

Delta R.T. -0.020 min

Lab File: BN032620.D

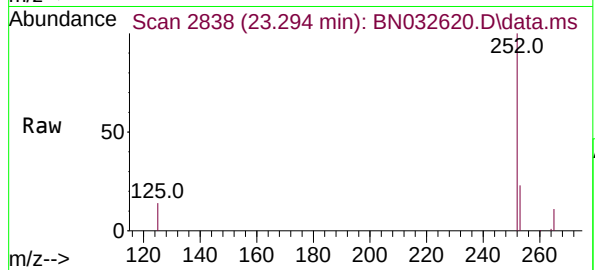
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

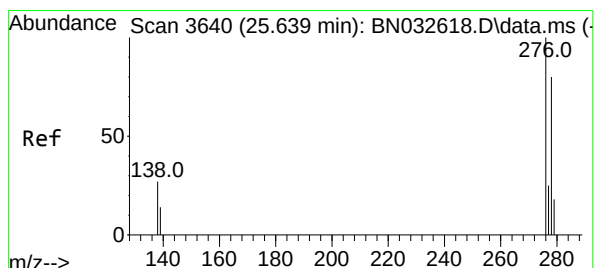
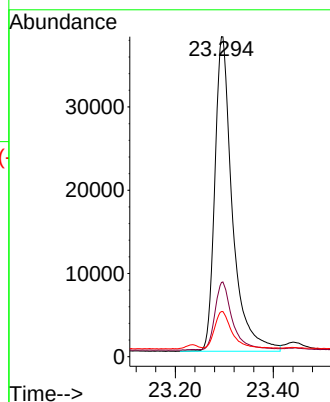
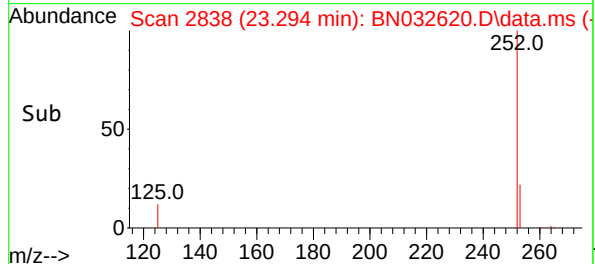


Tgt Ion:	252	Resp:	94030
Ion Ratio	Lower	Upper	
252	100		
253	23.2	25.8	38.8
125	14.1	21.4	32.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

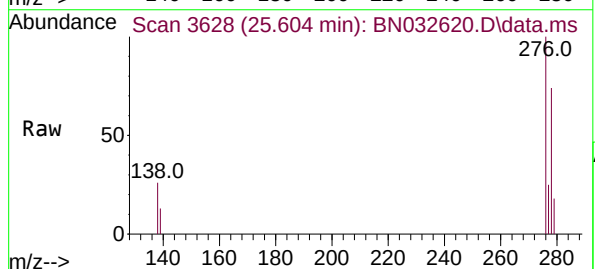
Concen: 1.662 ng

RT: 25.604 min Scan# 3628

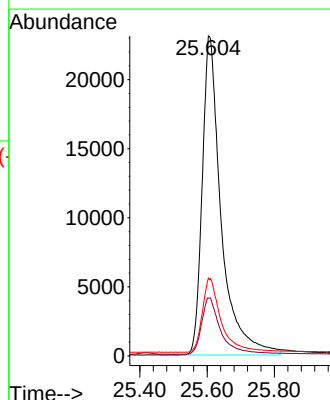
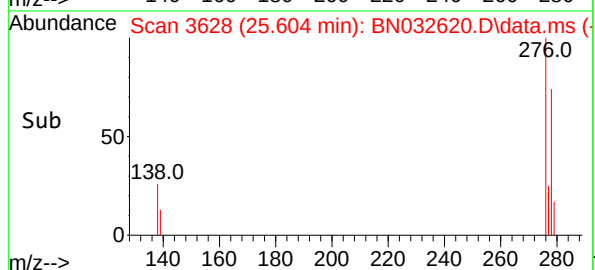
Delta R.T. -0.035 min

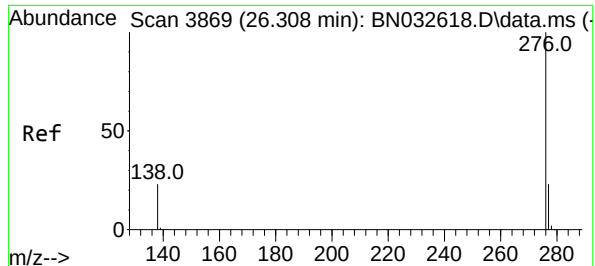
Lab File: BN032620.D

Acq: 10 Jul 2024 18:19



Tgt Ion:	278	Resp:	90541
Ion Ratio	Lower	Upper	
278	100		
139	18.0	16.7	25.1
279	24.4	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 1.617 ng

RT: 26.279 min Scan# 3869

Delta R.T. -0.029 min

Lab File: BN032620.D

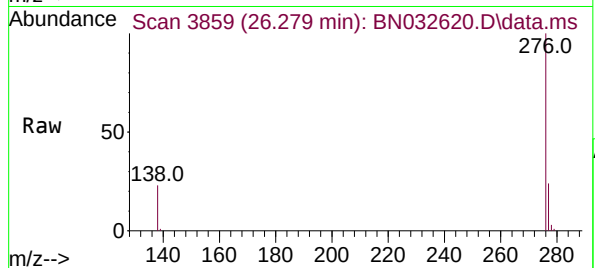
Acq: 10 Jul 2024 18:19

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:276 Resp: 97579

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

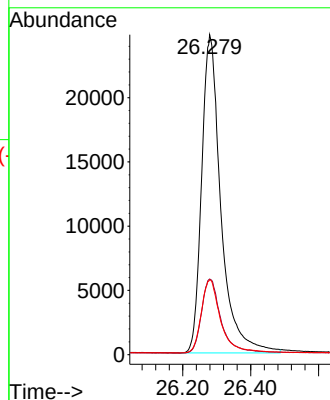
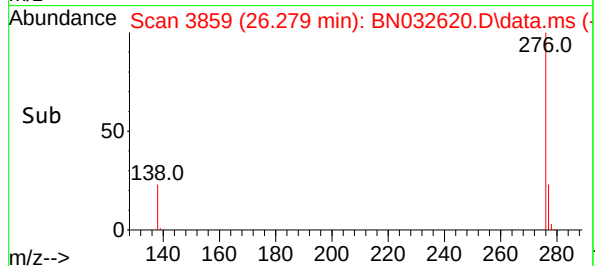
138 23.5 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032621.D
Acq On : 10 Jul 2024 18:56
Operator : MA/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:41:59 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

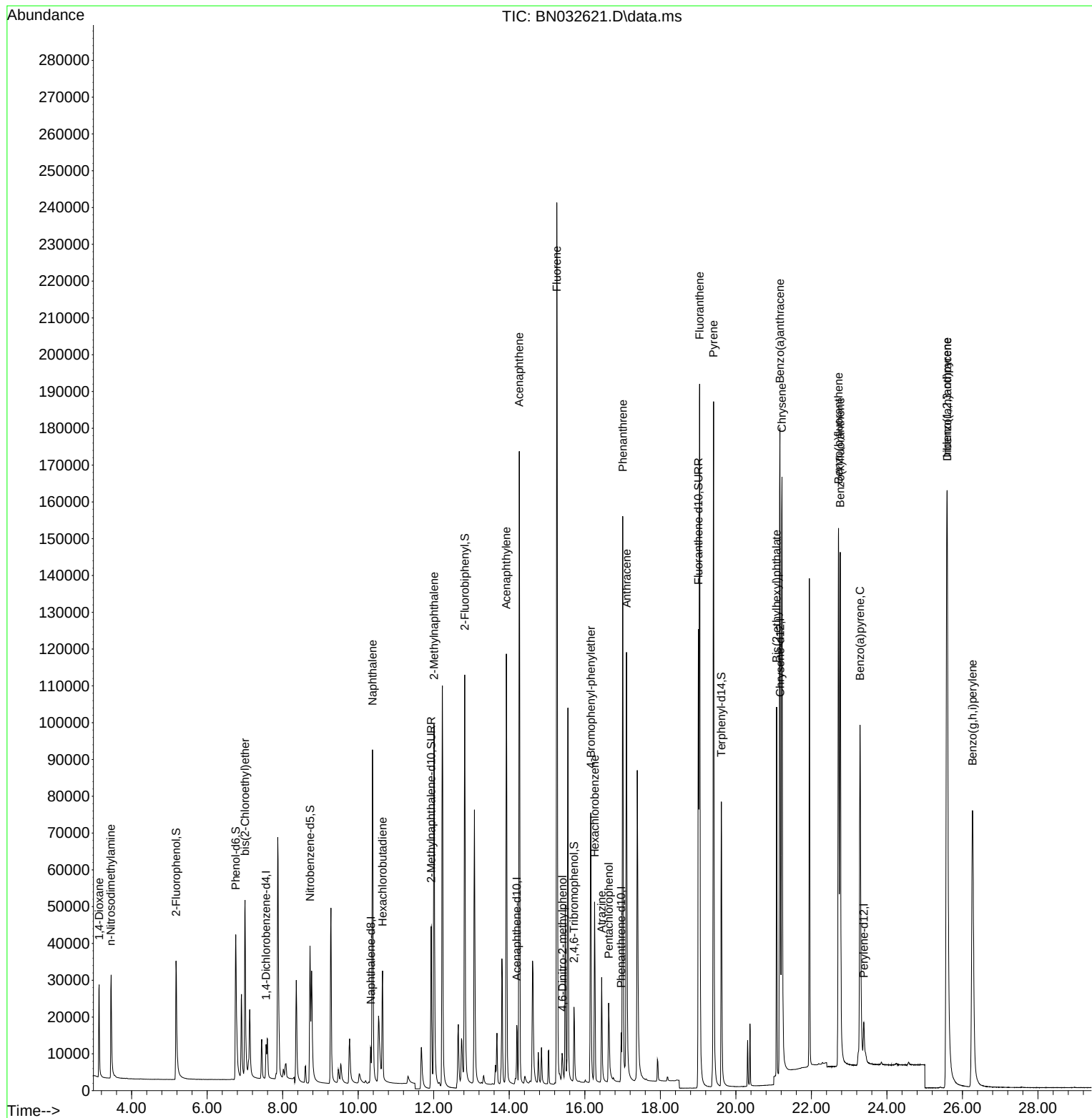
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	5148	0.400	ng	0.00
7) Naphthalene-d8	10.336	136	15631	0.400	ng	#-0.02
13) Acenaphthene-d10	14.199	164	9709	0.400	ng	-0.01
19) Phenanthrene-d10	16.967	188	18842	0.400	ng	-0.01
29) Chrysene-d12	21.175	240	16714	0.400	ng	-0.02
35) Perylene-d12	23.388	264	16268	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	40097	3.079	ng	-0.02
5) Phenol-d6	6.758	99	52791	3.266	ng	-0.04
8) Nitrobenzene-d5	8.723	82	38812	3.298	ng	-0.05
11) 2-Methylnaphthalene-d10	11.930	152	74580	3.119	ng	-0.03
14) 2,4,6-Tribromophenol	15.713	330	13424	3.235	ng	-0.02
15) 2-Fluorobiphenyl	12.820	172	114558	3.170	ng	-0.03
27) Fluoranthene-d10	19.007	212	153406	3.147	ng	-0.01
31) Terphenyl-d14	19.616	244	99456	2.903	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.139	88	17862	2.801	ng	97
3) n-Nitrosodimethylamine	3.450	42	16465	3.054	ng	100
6) bis(2-Chloroethyl)ether	7.003	93	43724	3.235	ng	# 89
9) Naphthalene	10.378	128	133924	3.094	ng	97
10) Hexachlorobutadiene	10.645	225	24597	2.974	ng	# 100
12) 2-Methylnaphthalene	12.005	142	90046	3.184	ng	97
16) Acenaphthylene	13.921	152	133466	3.379	ng	99
17) Acenaphthene	14.264	154	88097	3.148	ng	99
18) Fluorene	15.258	166	114165	3.052	ng	99
20) 4,6-Dinitro-2-methylph...	15.407	198	10758m	2.946	ng	
21) 4-Bromophenyl-phenylether	16.160	248	35760	3.230	ng	# 81
22) Hexachlorobenzene	16.259	284	39428	3.180	ng	99
23) Atrazine	16.445	200	26652	3.269	ng	95
24) Pentachlorophenol	16.631	266	15508	3.366	ng	99
25) Phenanthrene	17.004	178	167069	3.244	ng	100
26) Anthracene	17.103	178	150897	3.560	ng	99
28) Fluoranthene	19.040	202	198327	3.183	ng	100
30) Pyrene	19.407	202	201324	2.949	ng	99
32) Benzo(a)anthracene	21.166	228	175540	3.322	ng	99
33) Chrysene	21.220	228	186845	2.974	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	93981	3.212	ng	100
36) Indeno(1,2,3-cd)pyrene	25.586	276	221820	3.459	ng	99
37) Benzo(b)fluoranthene	22.718	252	186633	3.294	ng	# 86
38) Benzo(k)fluoranthene	22.762	252	203131m	3.095	ng	
39) Benzo(a)pyrene	23.288	252	165565	3.240	ng	# 78
40) Dibenzo(a,h)anthracene	25.595	278	177246	3.500	ng	# 90
41) Benzo(g,h,i)perylene	26.265	276	191262	3.409	ng	96

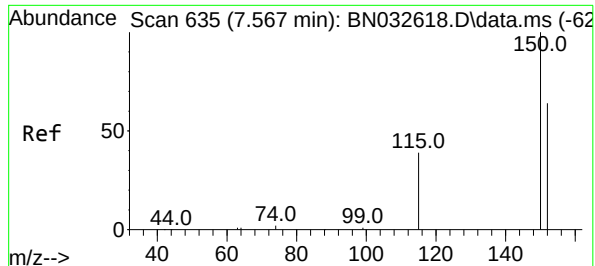
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Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Manual Integrations APPROVED

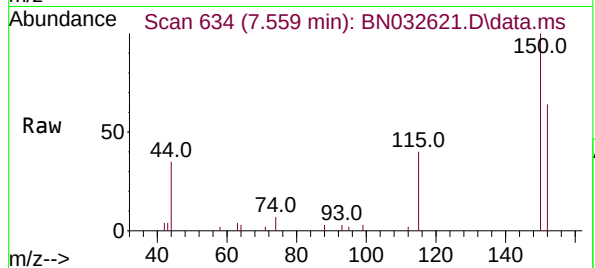
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

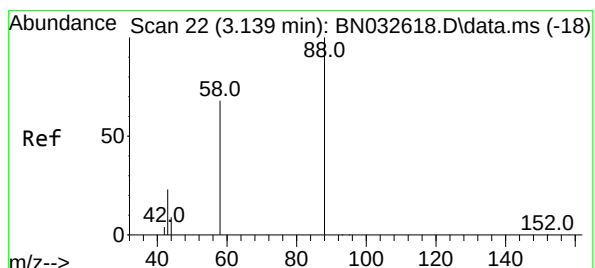
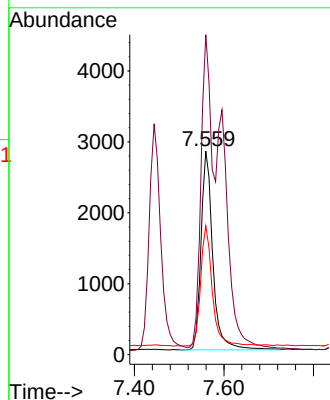
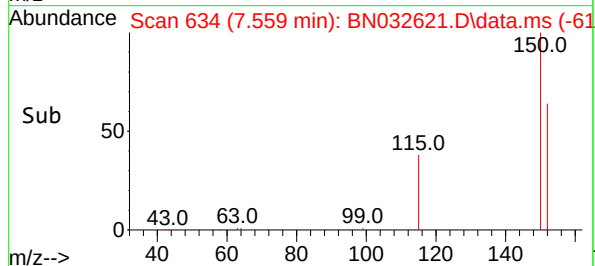
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 152 Resp: 514
Ion Ratio Lower Upper
152 100
150 157.1 123.8 185.6
115 63.2 52.8 79.2

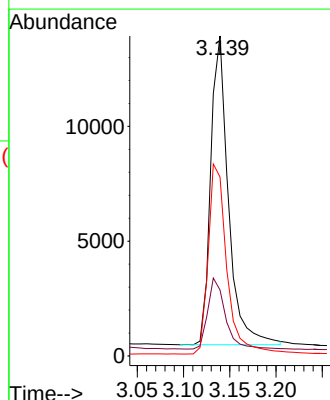
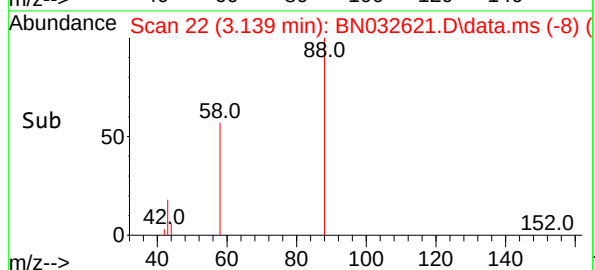
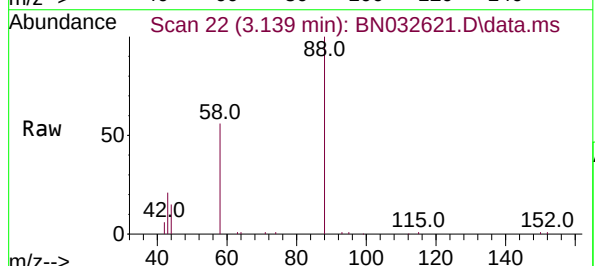
Manual Integrations
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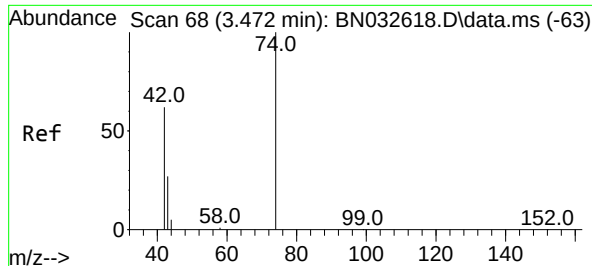
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 2.801 ng
RT: 3.139 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

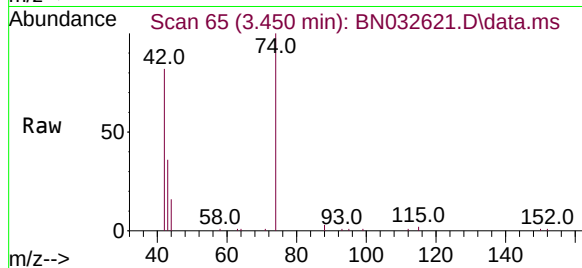
Tgt Ion: 88 Resp: 17862
Ion Ratio Lower Upper
88 100
43 22.9 18.4 27.6
58 64.7 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 3.054 ng
RT: 3.450 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

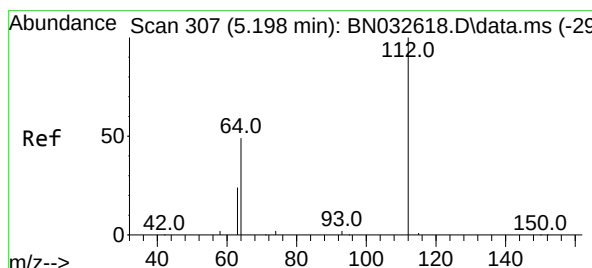
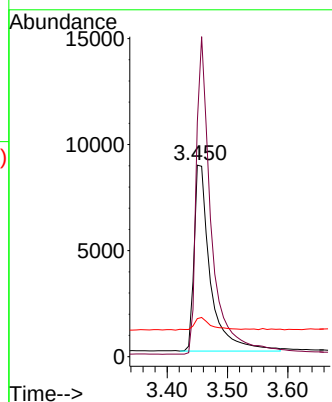
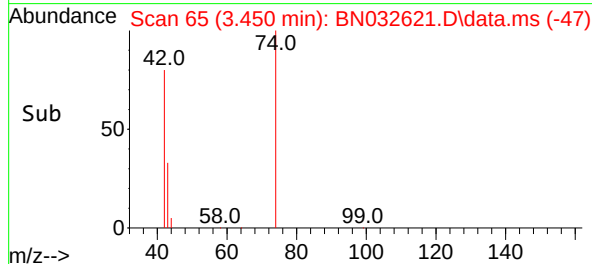
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion: 42 Resp: 1646
Ion Ratio Lower Upper
42 100
74 158.7 126.9 190.3
44 7.1 4.8 7.2

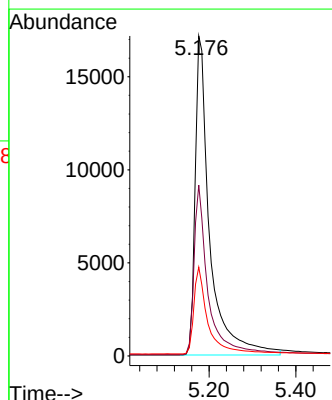
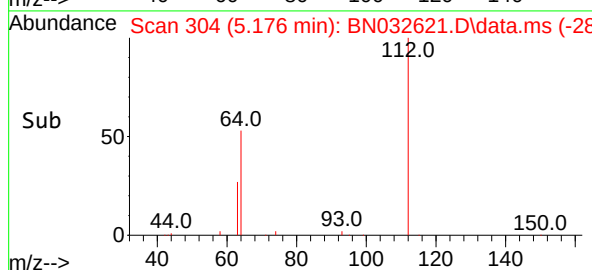
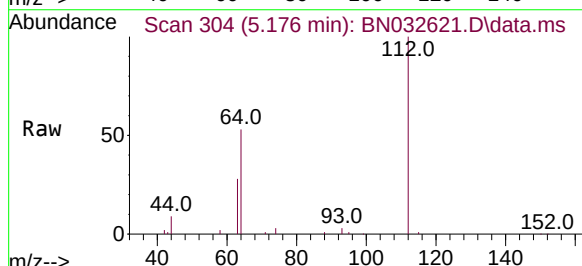
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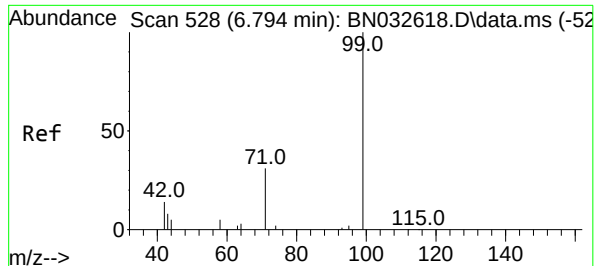
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 3.079 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.022 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:112 Resp: 40097
Ion Ratio Lower Upper
112 100
64 51.3 40.2 60.4
63 26.4 22.2 33.4





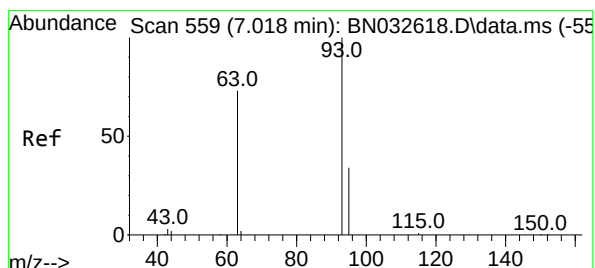
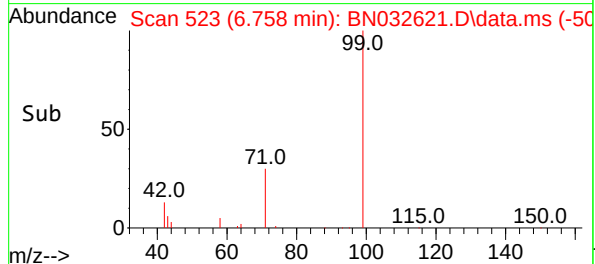
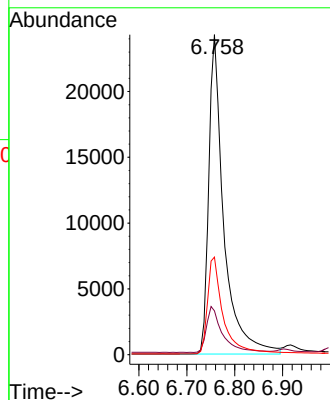
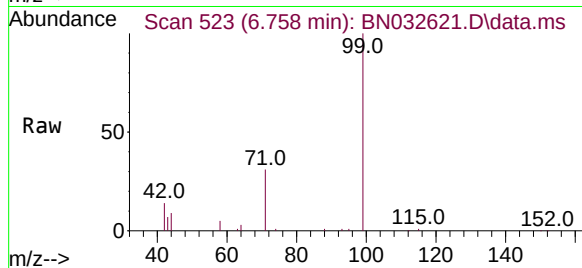
#5
Phenol-d6
Concen: 3.266 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 5279
Ion Ratio Lower Upper
99 100
42 15.3 10.5 15.7
71 32.2 22.3 33.5

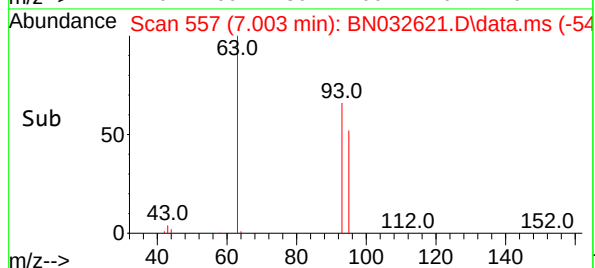
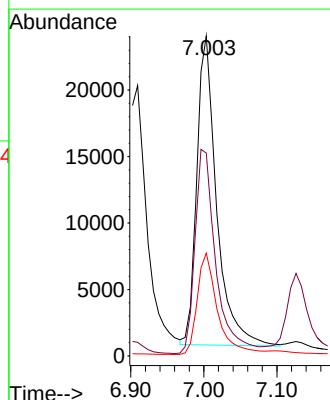
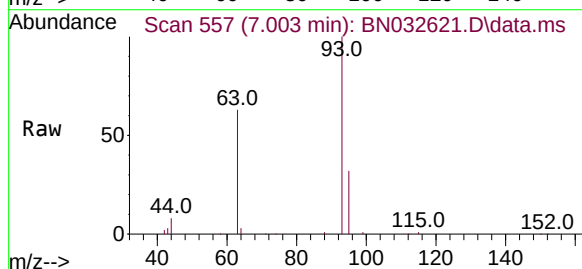
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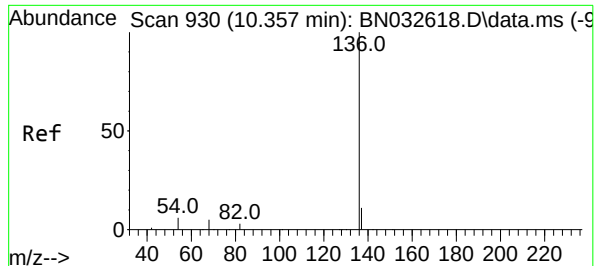
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 3.235 ng
RT: 7.003 min Scan# 557
Delta R.T. -0.014 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion: 93 Resp: 43724
Ion Ratio Lower Upper
93 100
63 69.7 46.4 69.6#
95 33.6 25.5 38.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.336 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

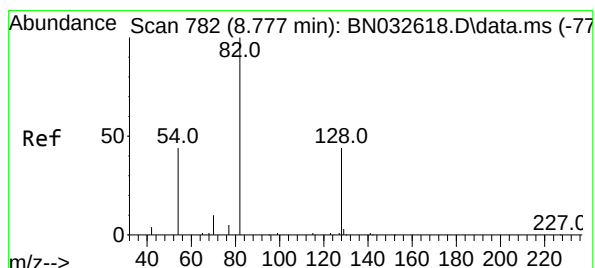
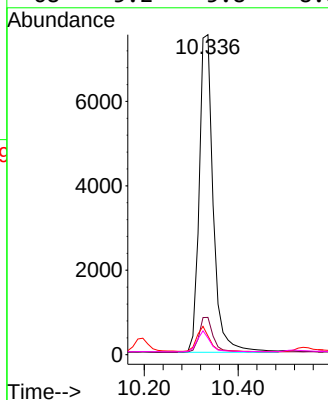
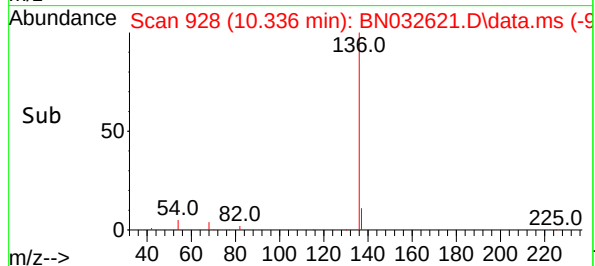
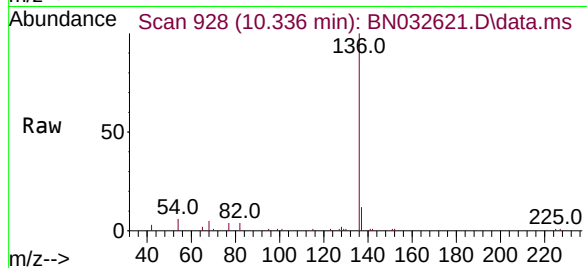
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.9	14.9
54	5.9	6.5	9.7
68	5.2	5.8	8.8

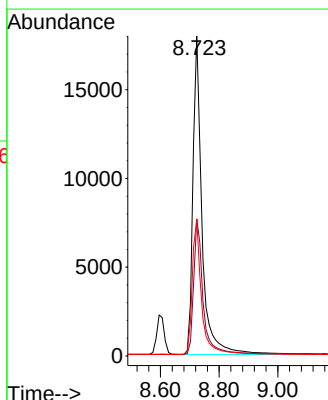
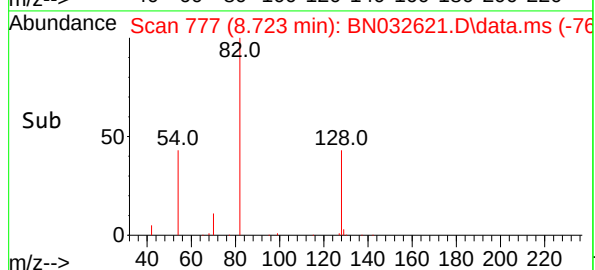
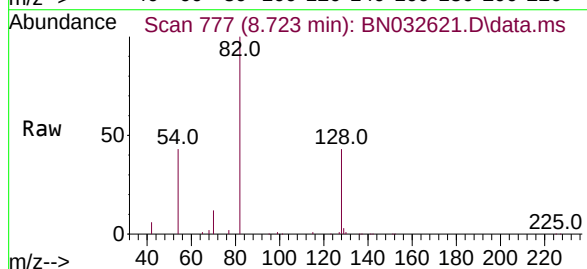
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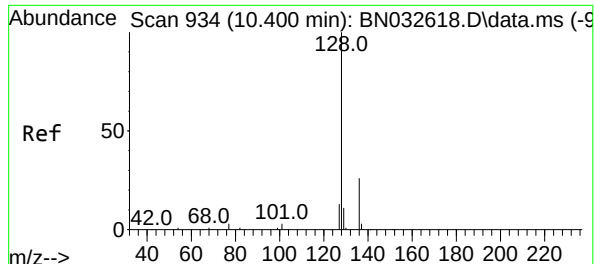
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 3.298 ng
RT: 8.723 min Scan# 777
Delta R.T. -0.053 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.9	41.7	62.5
54	42.7	39.5	59.3





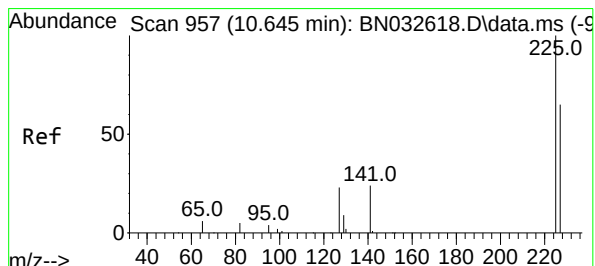
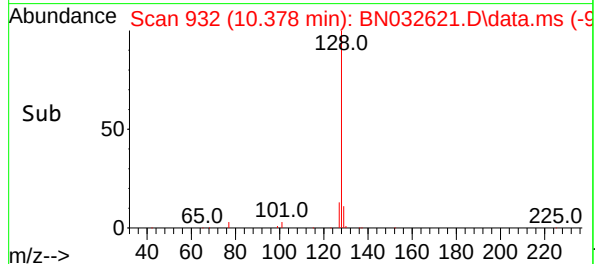
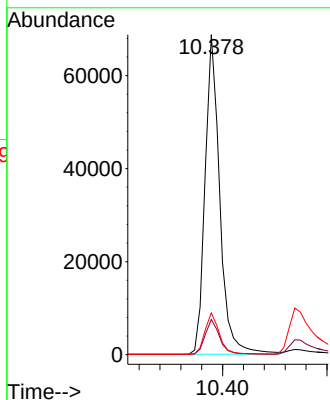
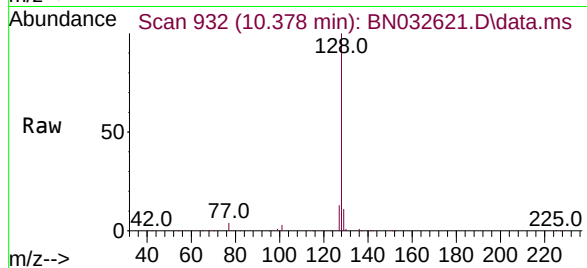
#9
Naphthalene
Concen: 3.094 ng
RT: 10.378 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 133924
Ion Ratio Lower Upper
128 100
129 11.0 9.8 14.8
127 13.0 11.5 17.3

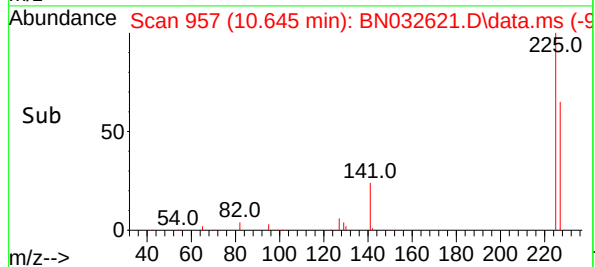
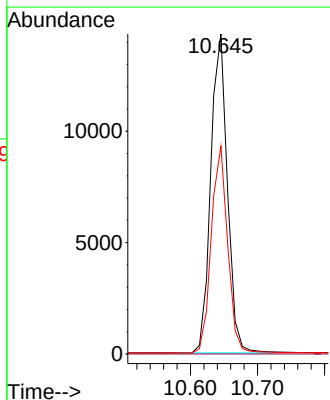
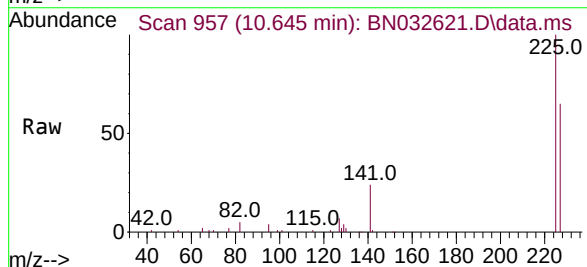
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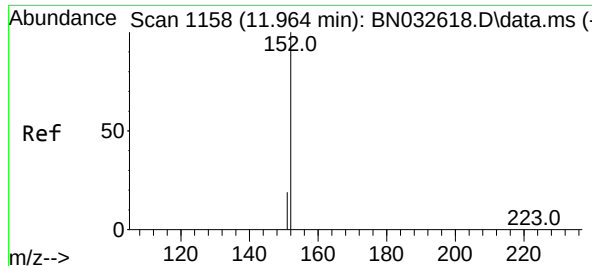
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 2.974 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

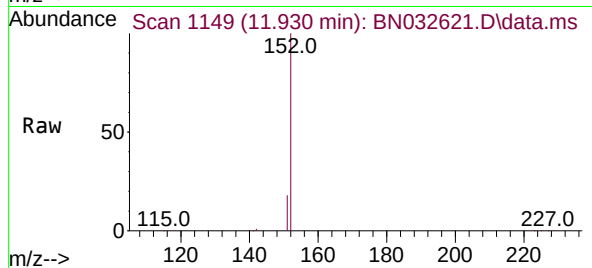
Tgt Ion:225 Resp: 24597
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 3.119 ng
RT: 11.930 min Scan# 1149
Delta R.T. -0.034 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

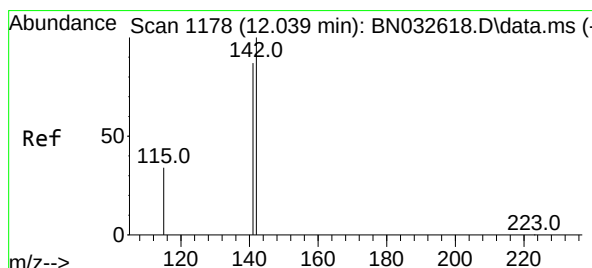
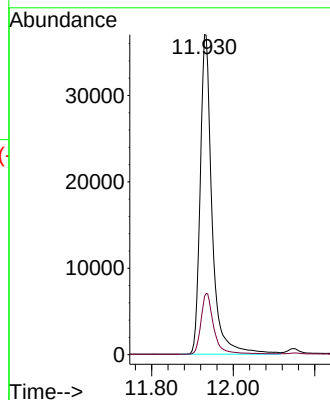
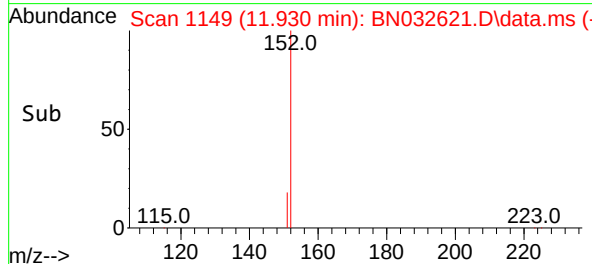
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:152 Resp: 74580
Ion Ratio Lower Upper
152 100
151 20.6 16.2 24.2

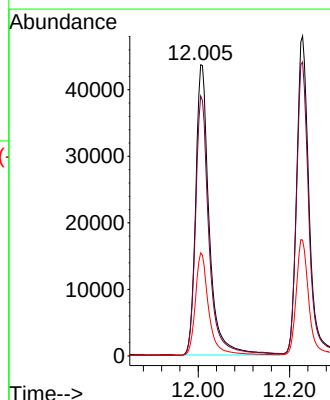
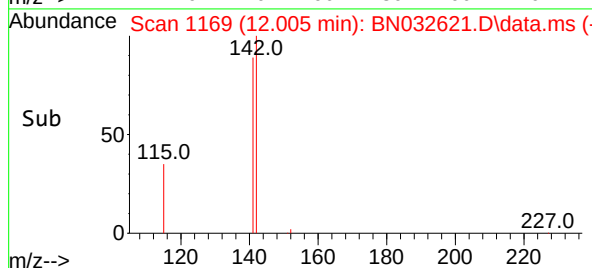
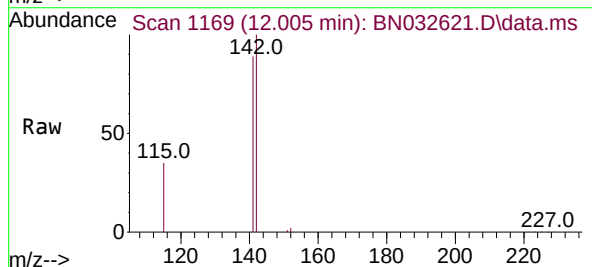
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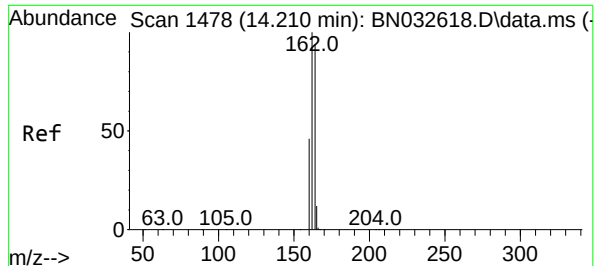
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 3.184 ng
RT: 12.005 min Scan# 1169
Delta R.T. -0.034 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

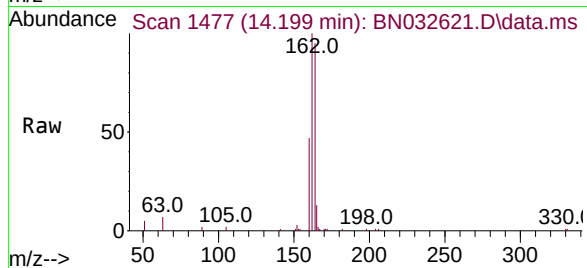
Tgt Ion:142 Resp: 90046
Ion Ratio Lower Upper
142 100
141 89.3 69.3 103.9
115 35.4 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1478
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

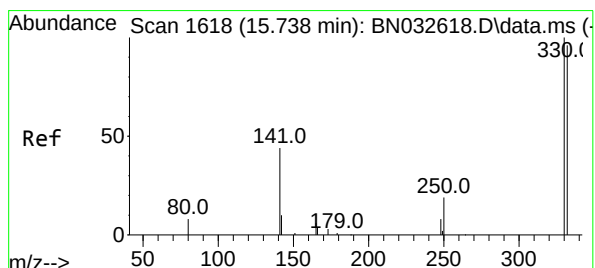
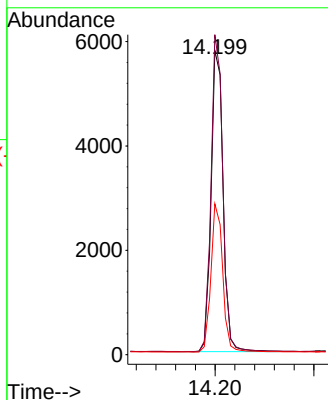
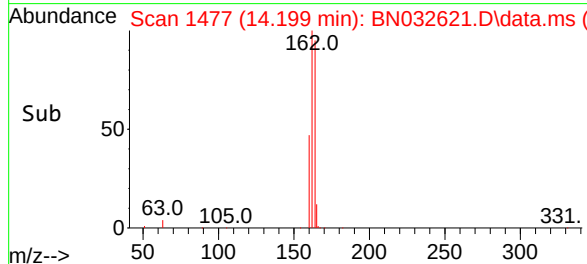
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



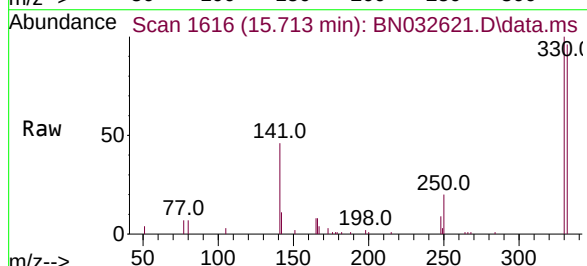
Tgt Ion:164 Resp: 9709
Ion Ratio Lower Upper
164 100
162 105.2 85.0 127.4
160 49.6 39.4 59.2

Manual Integrations
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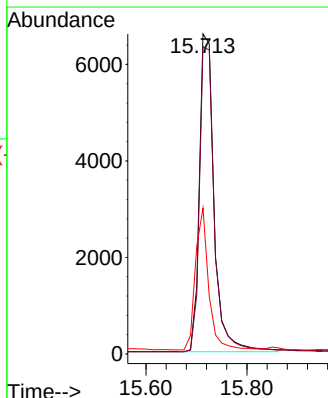
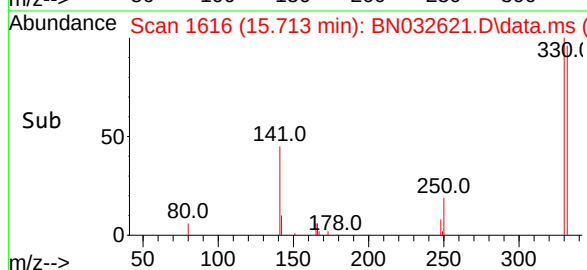
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

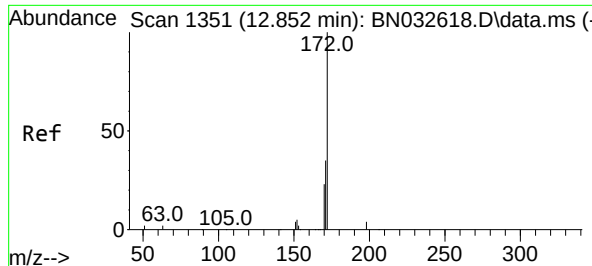


#14
2,4,6-Tribromophenol
Concen: 3.235 ng
RT: 15.713 min Scan# 1616
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56



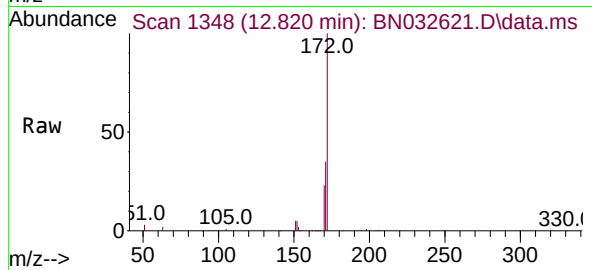
Tgt Ion:330 Resp: 13424
Ion Ratio Lower Upper
330 100
332 96.5 77.8 116.8
141 40.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 3.170 ng
RT: 12.820 min Scan# 11455
Delta R.T. -0.032 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

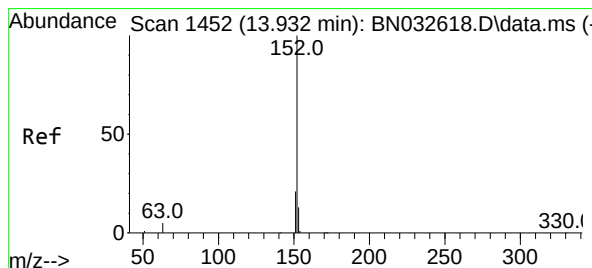
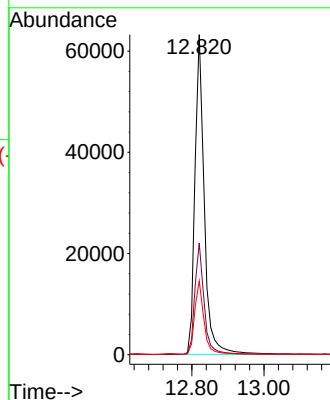
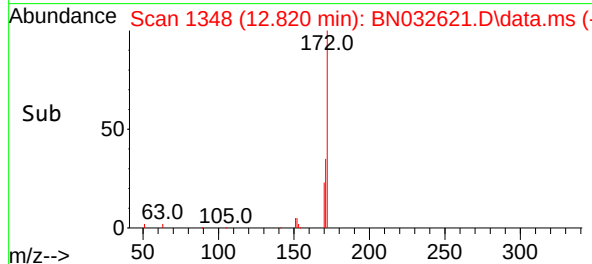
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



Tgt Ion:172 Resp: 11455
Ion Ratio Lower Upper
172 100
171 34.9 28.6 43.0
170 23.1 19.0 28.6

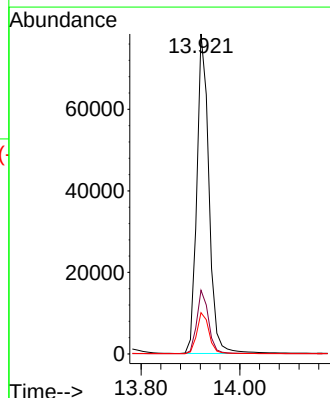
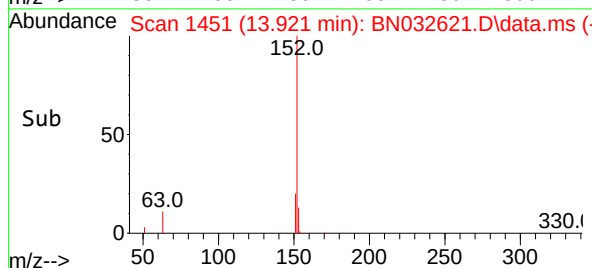
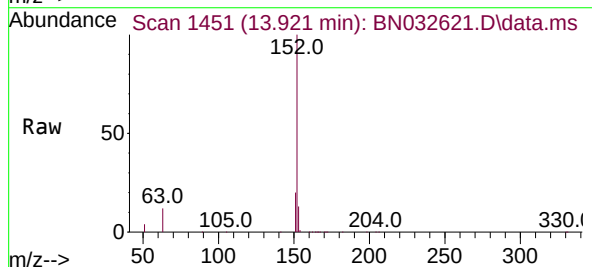
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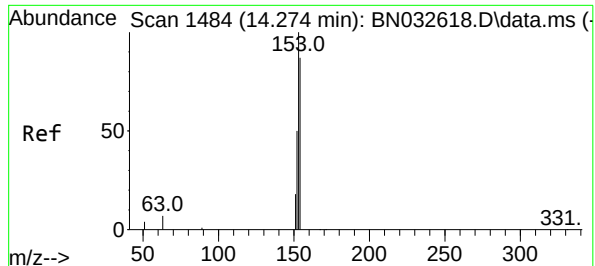
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 3.379 ng
RT: 13.921 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:152 Resp: 133466
Ion Ratio Lower Upper
152 100
151 19.5 16.0 24.0
153 13.0 10.6 15.8





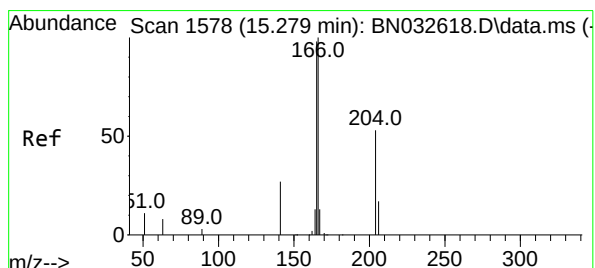
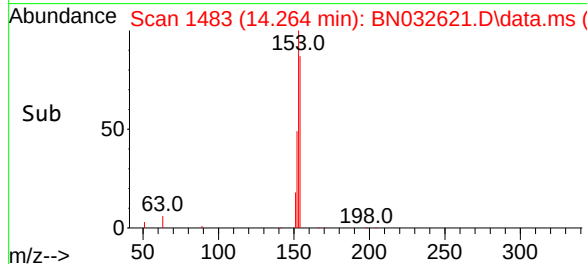
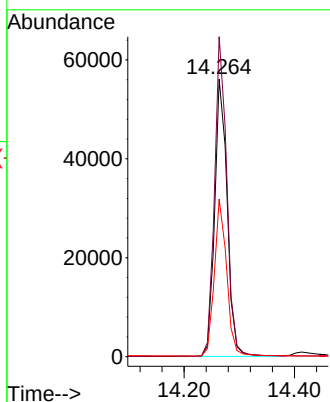
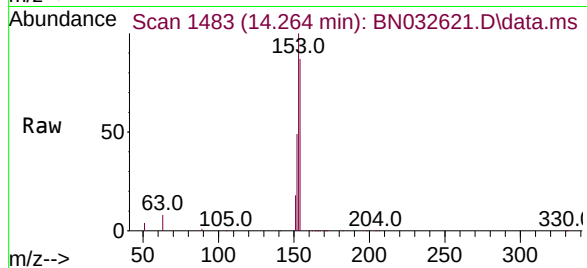
#17
Acenaphthene
Concen: 3.148 ng
RT: 14.264 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 8809
Ion Ratio Lower Upper
154 100
153 113.6 91.8 137.8
152 55.6 45.2 67.8

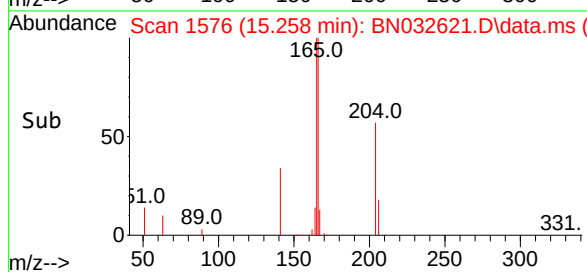
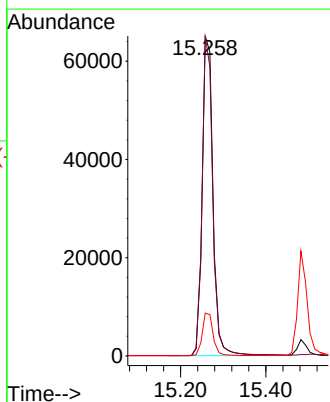
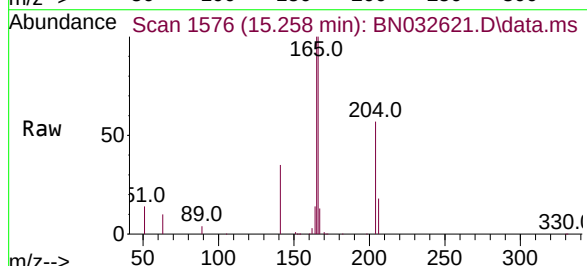
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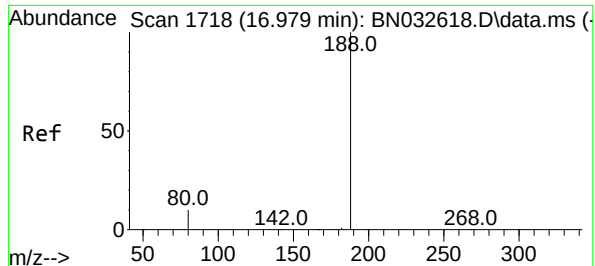
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 3.052 ng
RT: 15.258 min Scan# 1576
Delta R.T. -0.021 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:166 Resp: 114165
Ion Ratio Lower Upper
166 100
165 98.1 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

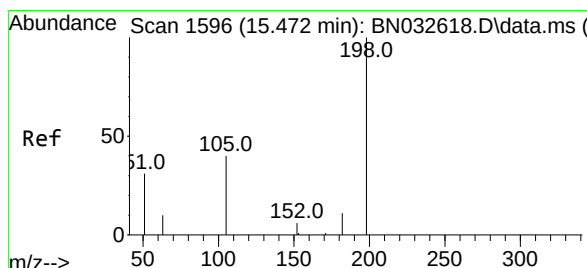
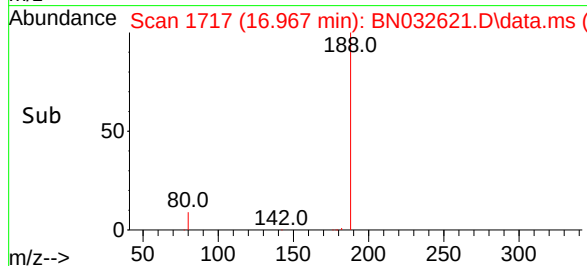
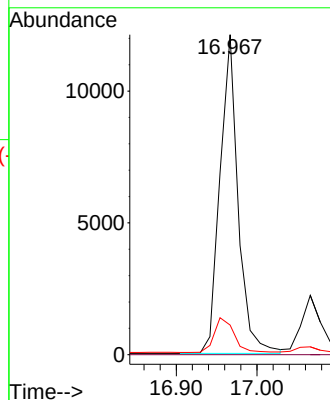
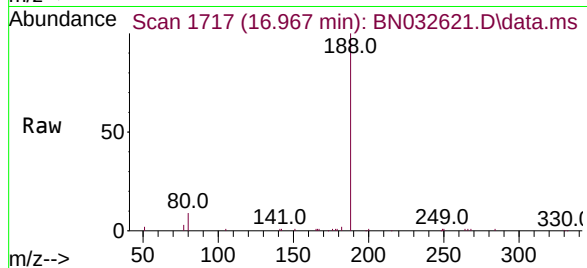
SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	8.8	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 2.946 ng m

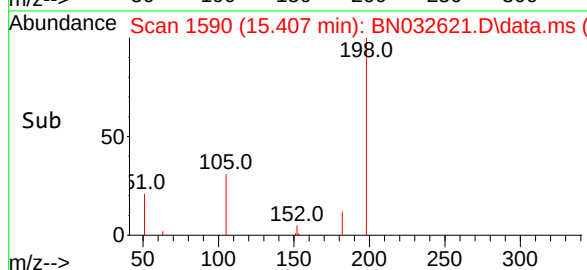
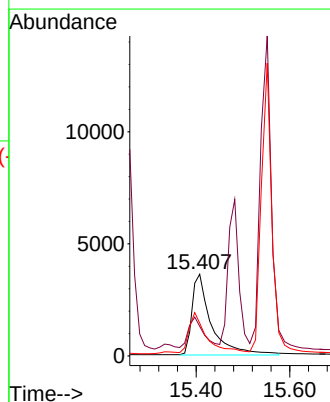
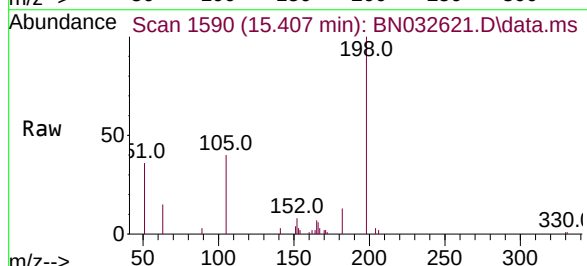
RT: 15.407 min Scan# 1590

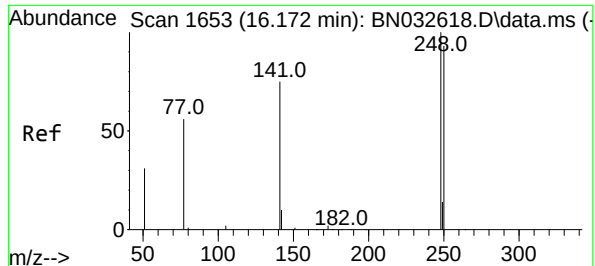
Delta R.T. -0.065 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
198	100		
51	36.2	105.7	158.5#
105	40.1	63.0	94.6#





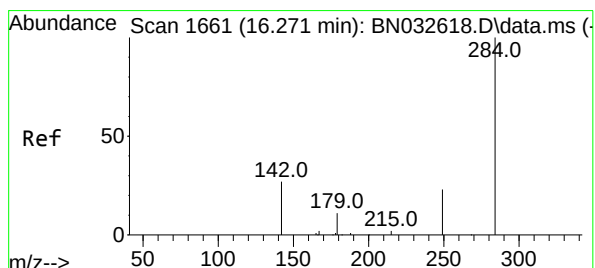
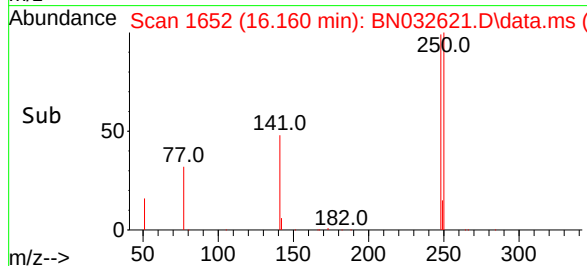
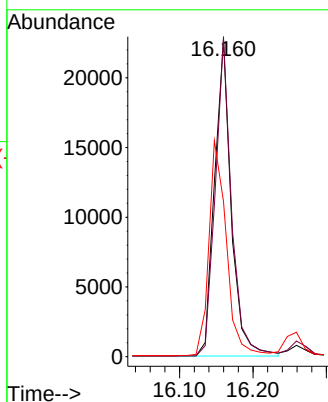
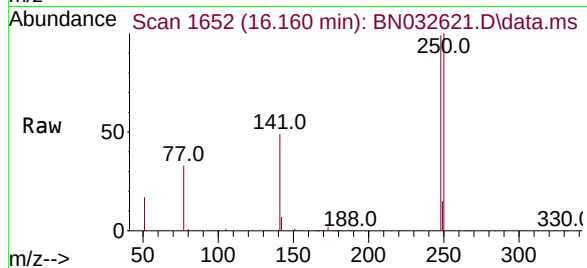
#21
4-Bromophenyl-phenylether
Concen: 3.230 ng
RT: 16.160 min Scan# 1653
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 35760
Ion Ratio Lower Upper
248 100
250 100.8 75.1 112.7
141 49.0 62.0 93.0

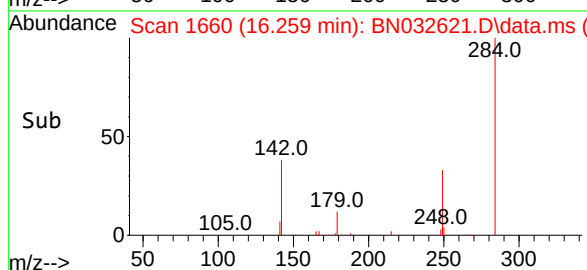
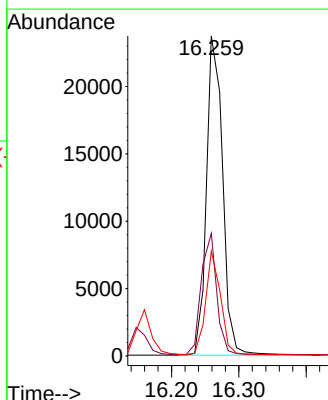
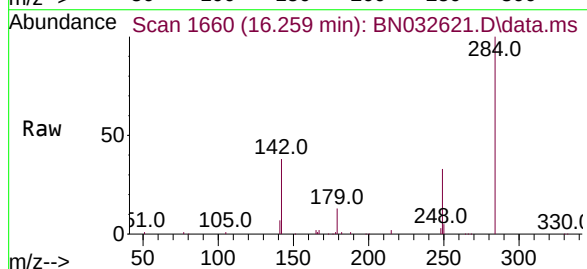
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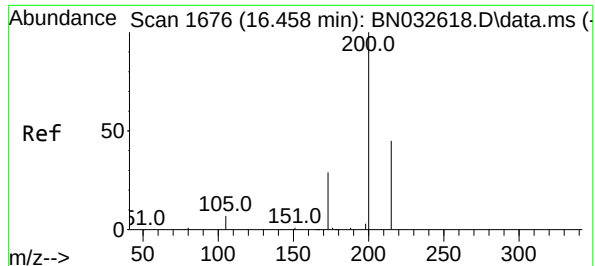
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 3.180 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:284 Resp: 39428
Ion Ratio Lower Upper
284 100
142 36.6 29.4 44.0
249 29.8 24.6 36.8





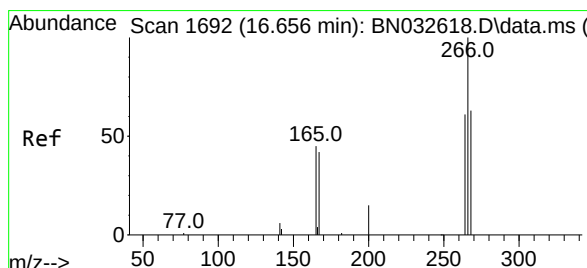
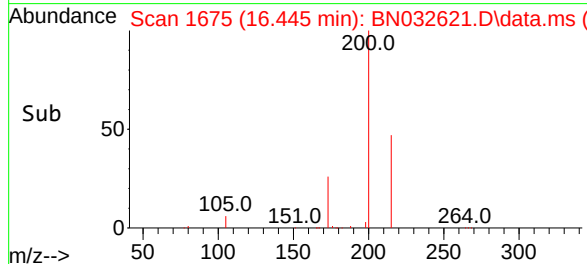
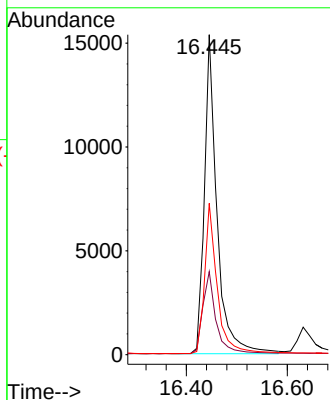
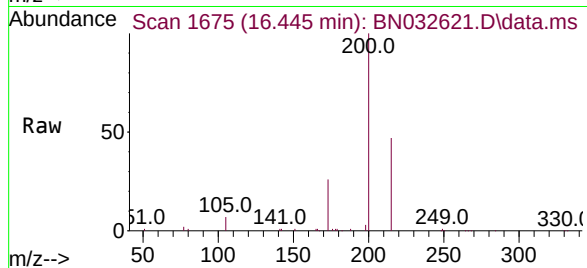
#23
Atrazine
Concen: 3.269 ng
RT: 16.445 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 26652
Ion Ratio Lower Upper
200 100
173 26.0 25.4 38.2
215 47.3 38.2 57.2

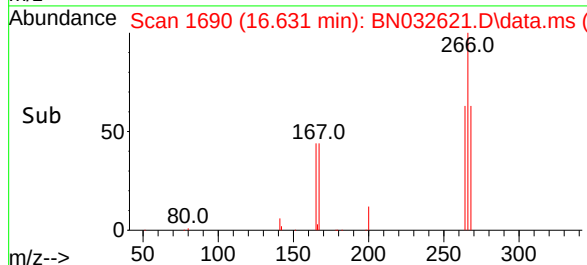
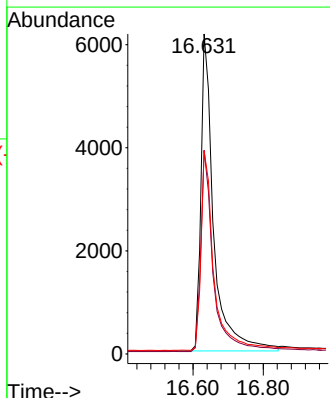
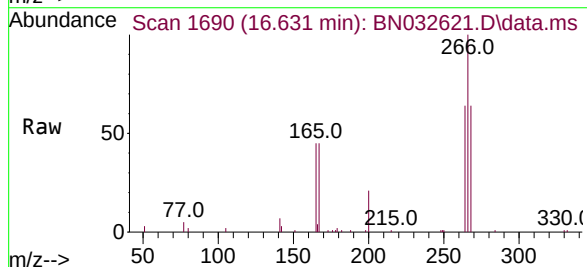
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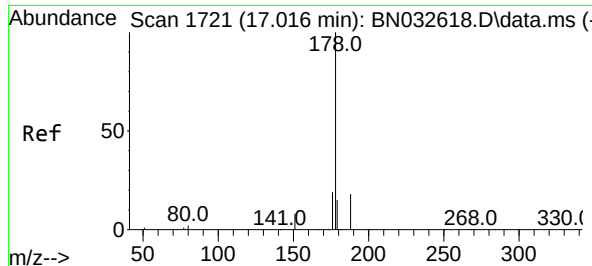
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 3.366 ng
RT: 16.631 min Scan# 1690
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:266 Resp: 15508
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 64.1 52.8 79.2





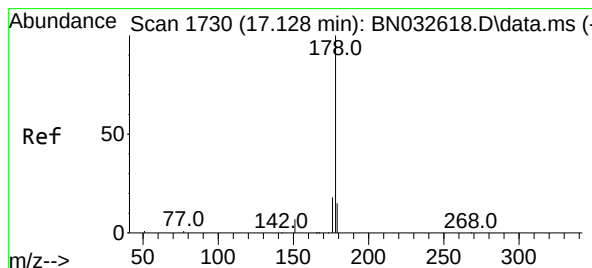
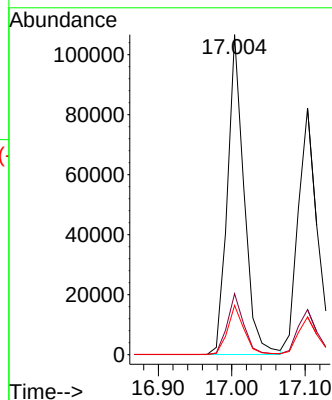
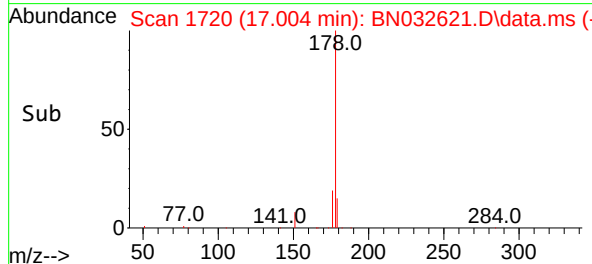
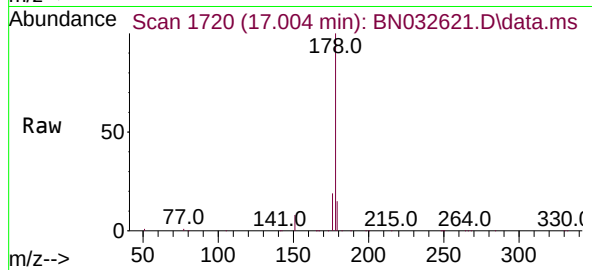
#25
Phenanthrene
Concen: 3.244 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 167069
Ion Ratio Lower Upper
178 100
176 18.9 15.1 22.7
179 15.3 12.2 18.4

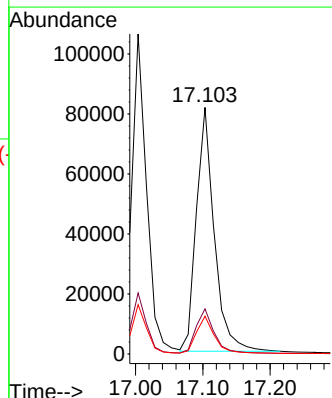
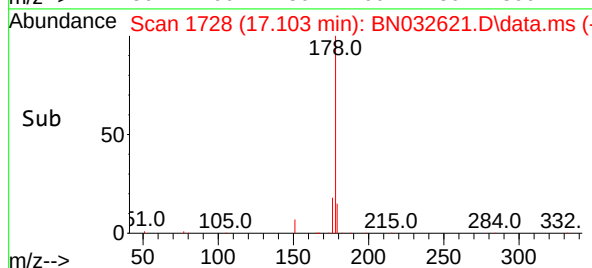
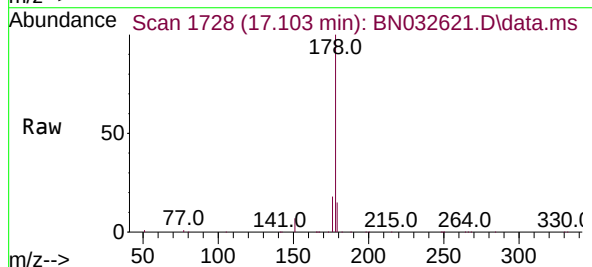
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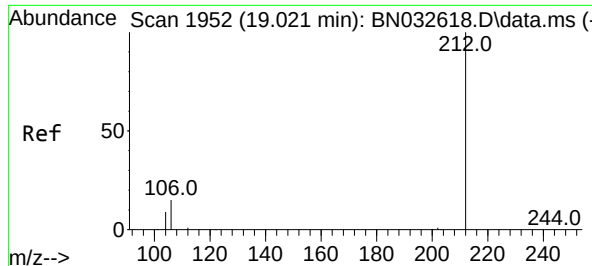
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 3.560 ng
RT: 17.103 min Scan# 1728
Delta R.T. -0.025 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion:178 Resp: 150897
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 3.147 ng

RT: 19.007 min Scan# 1949

Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:212 Resp: 153400

Ion Ratio Lower Upper

212 100

106 14.8 11.9 17.9

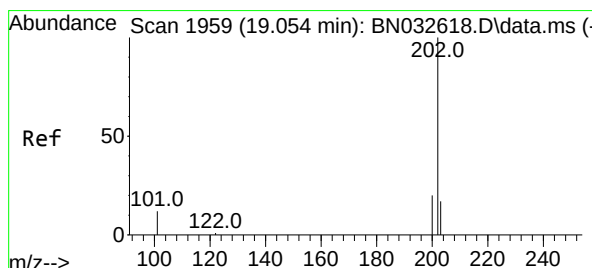
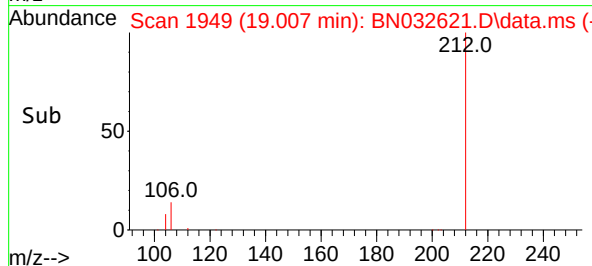
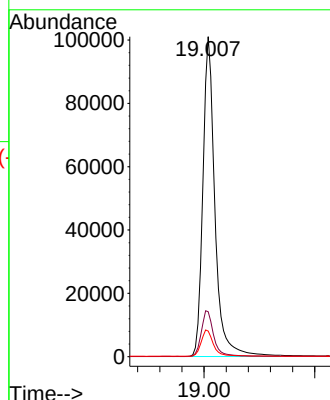
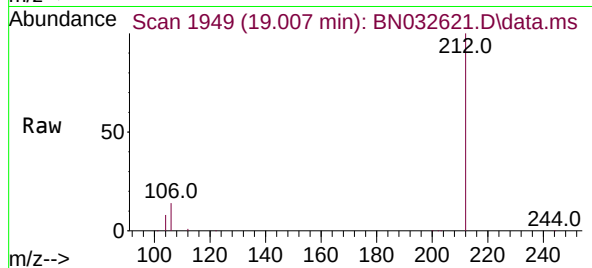
104 8.5 6.9 10.3

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 3.183 ng

RT: 19.040 min Scan# 1956

Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

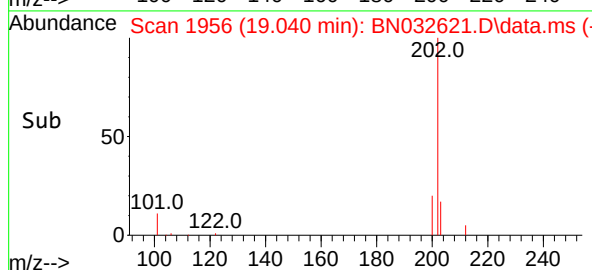
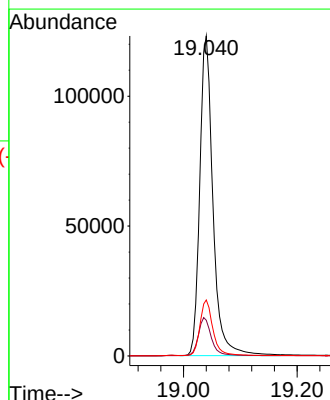
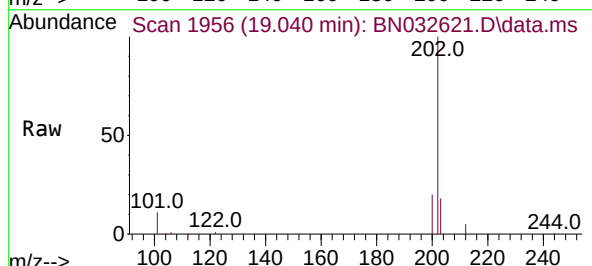
Tgt Ion:202 Resp: 198327

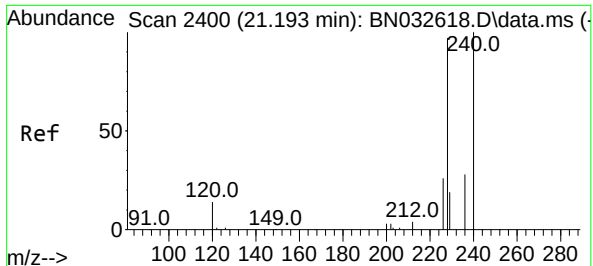
Ion Ratio Lower Upper

202 100

101 11.7 9.6 14.4

203 17.1 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.175 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

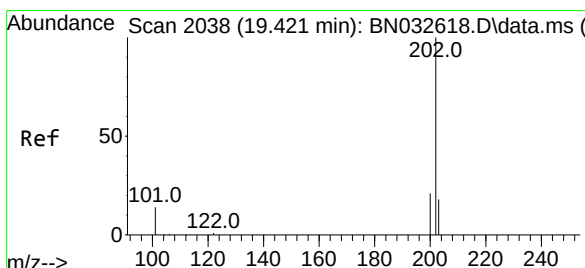
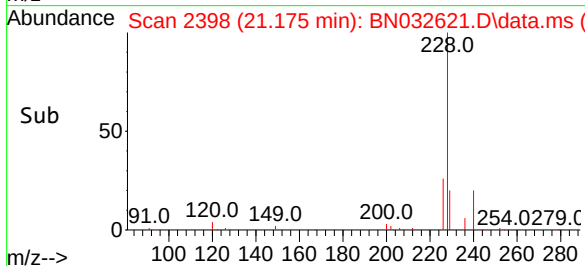
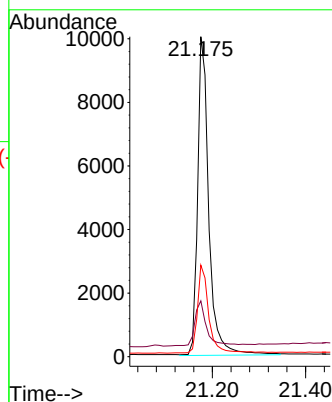
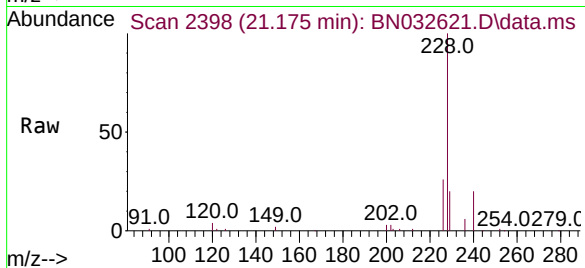
SSTDICC3.2

Tgt Ion:240	Resp:	16714
Ion Ratio	Lower	Upper
240	100	
120	17.4	14.8 22.2
236	28.6	23.3 34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 2.949 ng

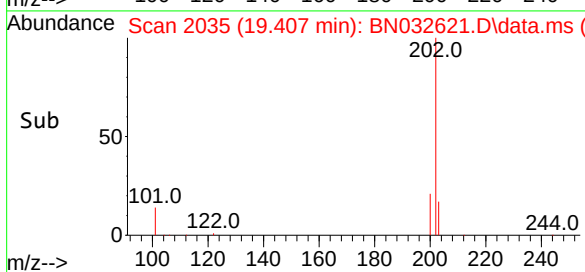
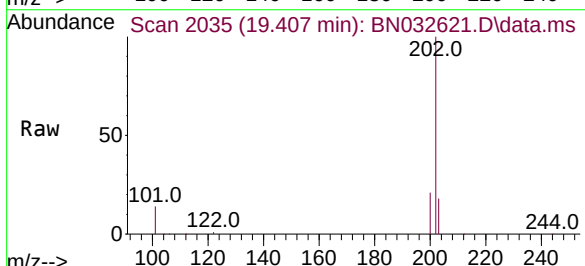
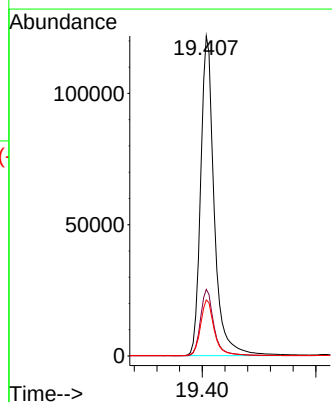
RT: 19.407 min Scan# 2035

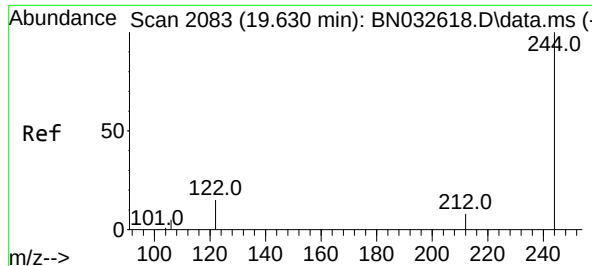
Delta R.T. -0.014 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Tgt Ion:202	Resp:	201324
Ion Ratio	Lower	Upper
202	100	
200	20.7	16.6 25.0
203	17.8	14.8 22.2





#31
Terphenyl-d14
Concen: 2.903 ng
RT: 19.616 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

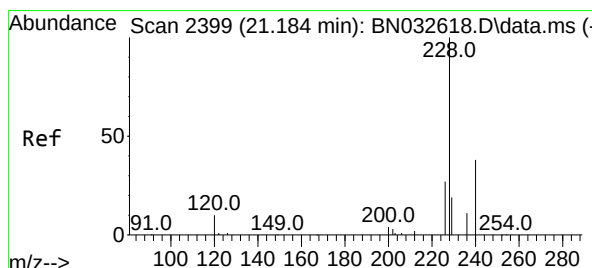
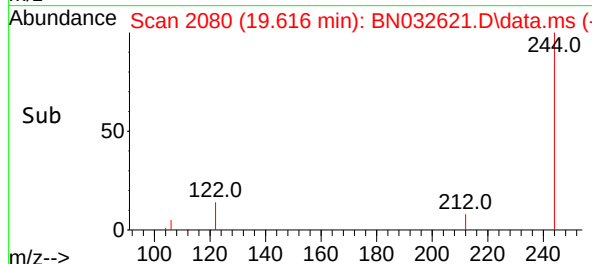
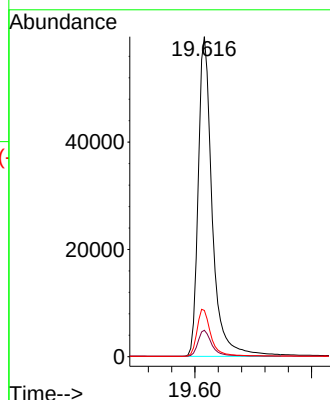
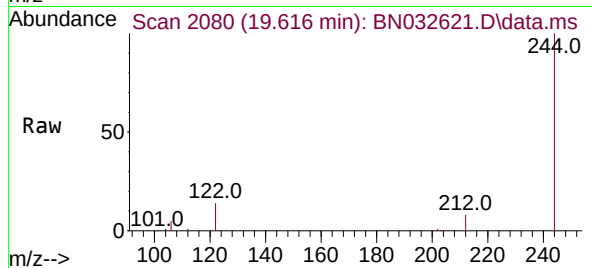
ClientSampleId :

SSTDICC3.2

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	7.5	11.3
122	14.5	12.6	19.0

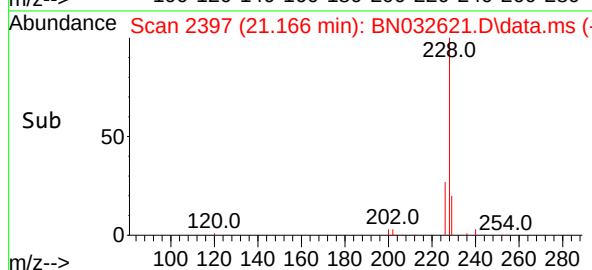
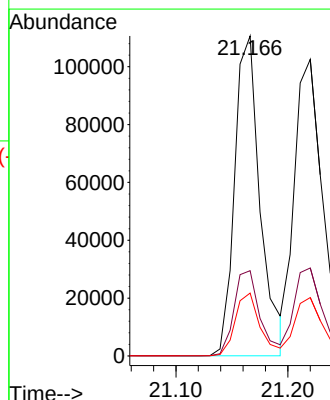
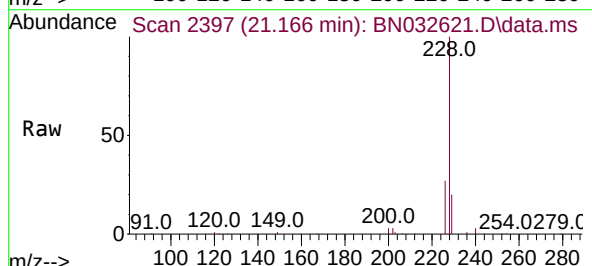
Manual Integrations
APPROVED

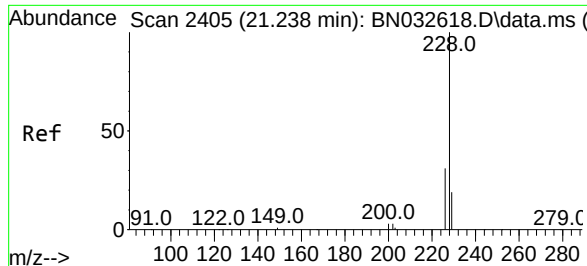
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 3.322 ng
RT: 21.166 min Scan# 2397
Delta R.T. -0.018 min
Lab File: BN032621.D
Acq: 10 Jul 2024 18:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 2.974 ng

RT: 21.220 min Scan# 2405

Delta R.T. -0.018 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:228 Resp: 18684

Ion Ratio Lower Upper

228 100

226 29.7 24.2 36.2

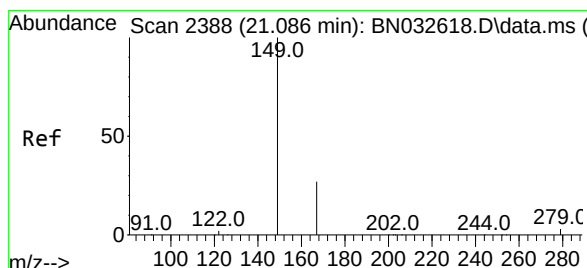
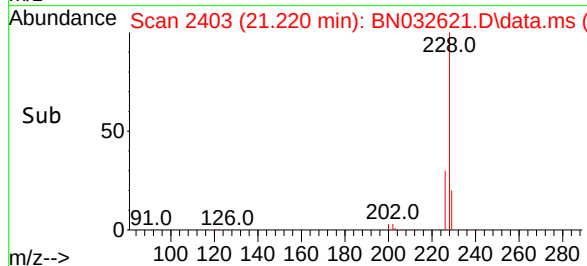
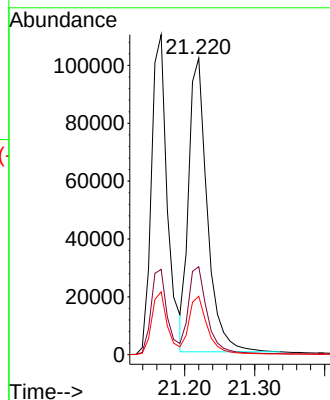
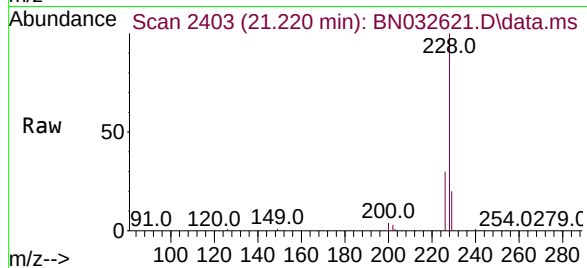
229 19.7 16.0 24.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.212 ng

RT: 21.077 min Scan# 2387

Delta R.T. -0.009 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

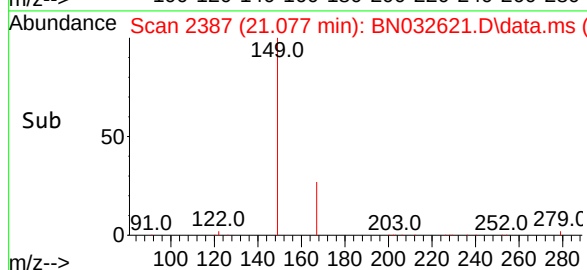
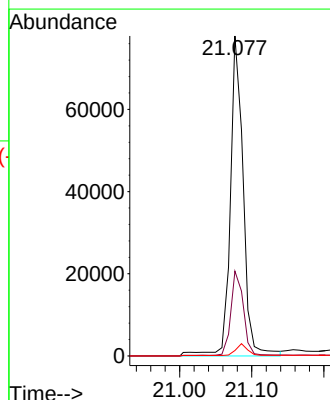
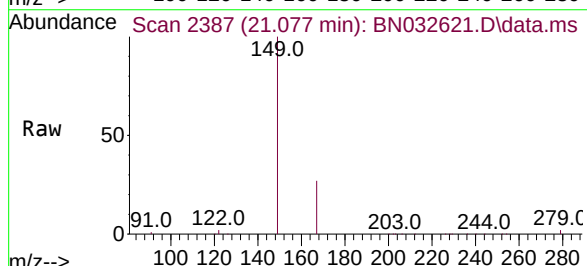
Tgt Ion:149 Resp: 93981

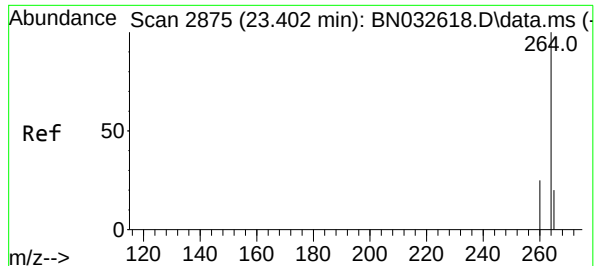
Ion Ratio Lower Upper

149 100

167 26.8 21.4 32.2

279 3.6 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.388 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN032621.D

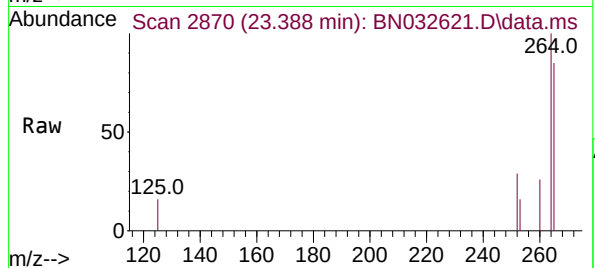
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:264 Resp: 1626

Ion Ratio Lower Upper

264 100

260 26.3 20.9 31.3

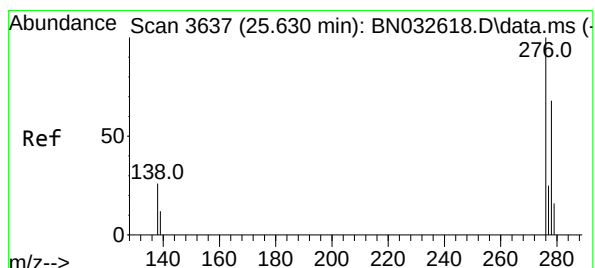
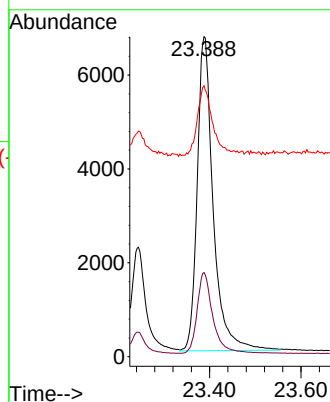
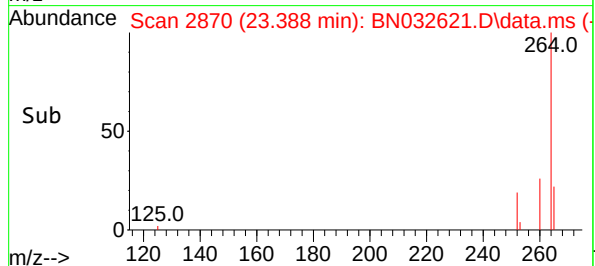
265 84.6 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.459 ng

RT: 25.586 min Scan# 3622

Delta R.T. -0.044 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

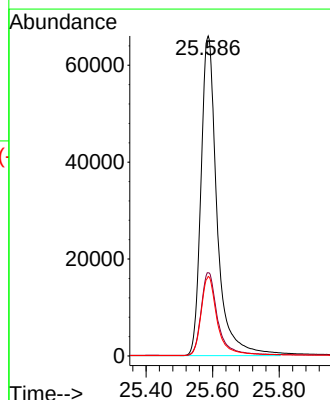
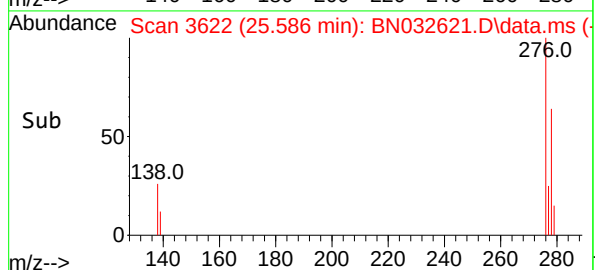
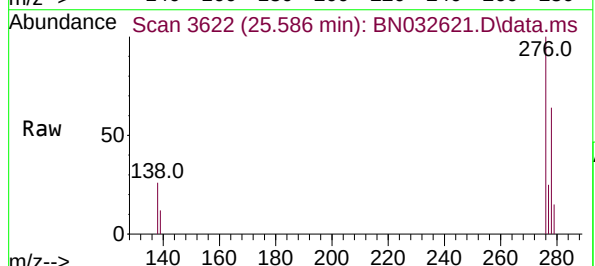
Tgt Ion:276 Resp: 221820

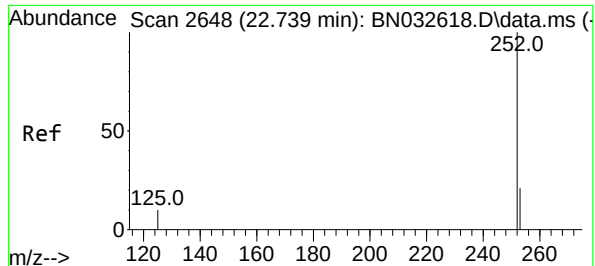
Ion Ratio Lower Upper

276 100

138 26.6 21.0 31.4

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.294 ng

RT: 22.718 min Scan# 2641

Delta R.T. -0.020 min

Lab File: BN032621.D

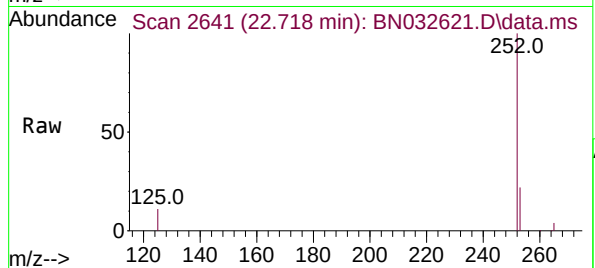
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:252 Resp: 18663

Ion Ratio Lower Upper

252 100

253 22.0 22.3 33.5

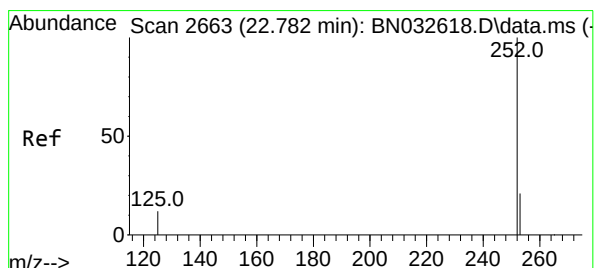
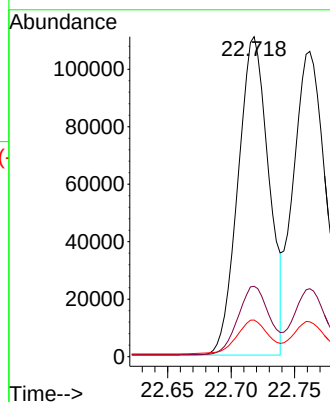
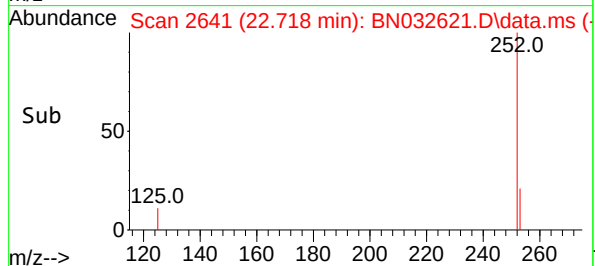
125 11.4 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 3.095 ng m

RT: 22.762 min Scan# 2656

Delta R.T. -0.020 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

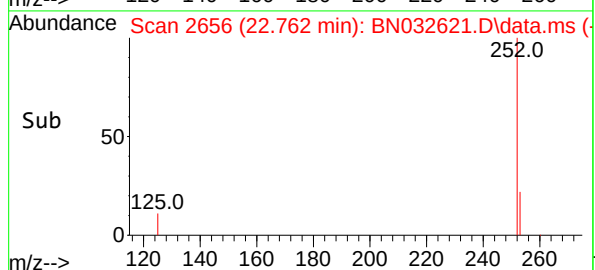
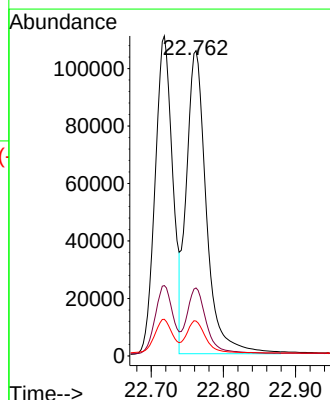
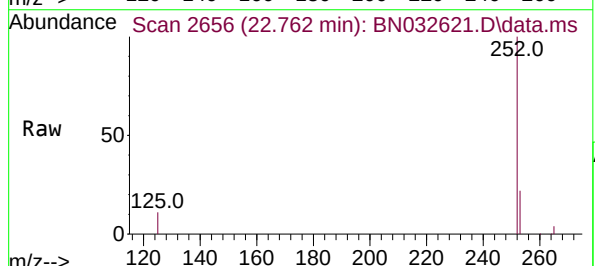
Tgt Ion:252 Resp: 203131

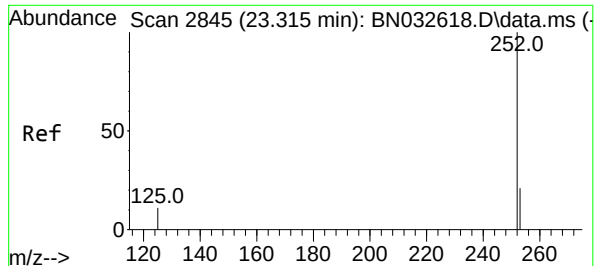
Ion Ratio Lower Upper

252 100

253 22.3 22.6 34.0#

125 11.4 16.2 24.4#





#39

Benzo(a)pyrene

Concen: 3.240 ng

RT: 23.288 min Scan# 21

Delta R.T. -0.026 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:252 Resp: 16556

Ion Ratio Lower Upper

252 100

253 22.5 25.8 38.8

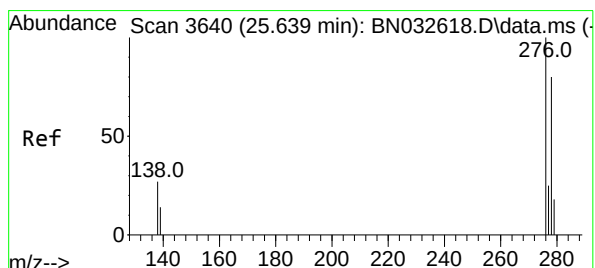
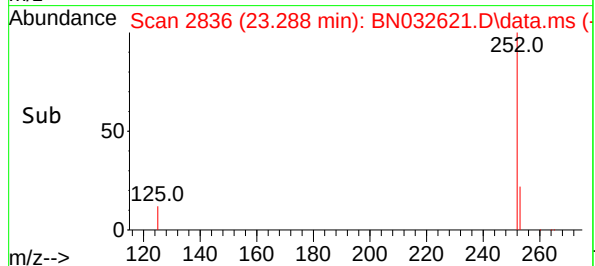
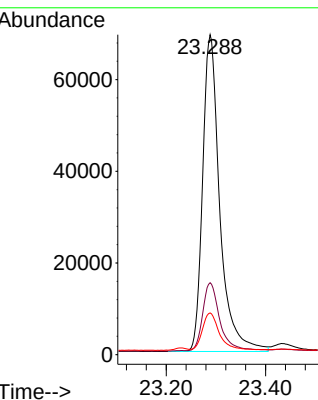
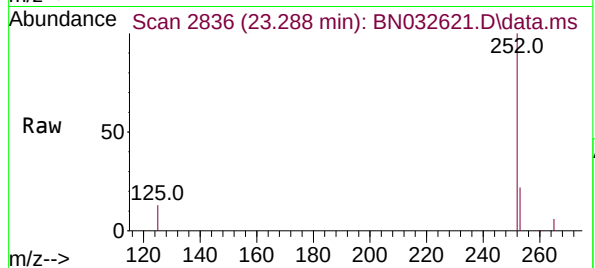
125 13.1 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 3.500 ng

RT: 25.595 min Scan# 3625

Delta R.T. -0.044 min

Lab File: BN032621.D

Acq: 10 Jul 2024 18:56

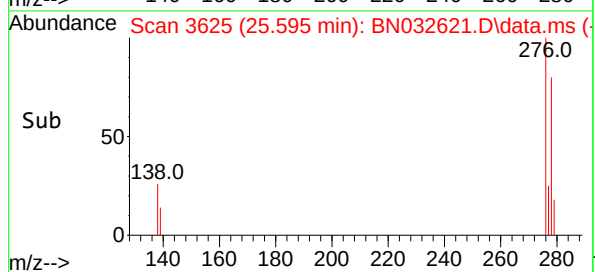
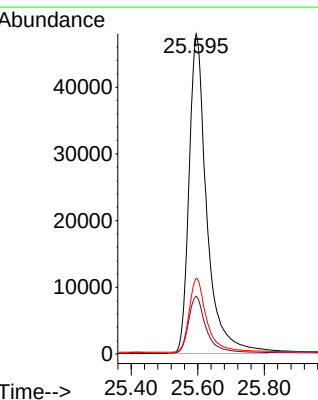
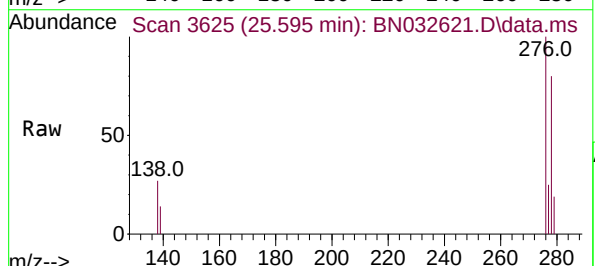
Tgt Ion:278 Resp: 177246

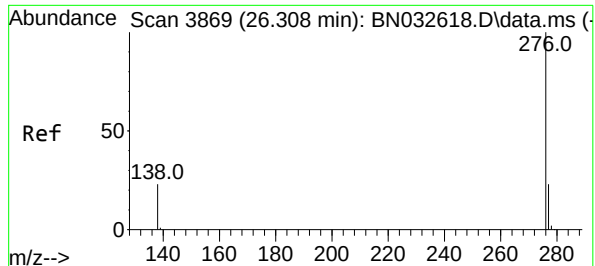
Ion Ratio Lower Upper

278 100

139 18.1 16.7 25.1

279 23.6 24.3 36.5





#41

Benzo(g,h,i)perylene

Concen: 3.409 ng

RT: 26.265 min Scan# 3854

Delta R.T. -0.044 min

Lab File: BN032621.D

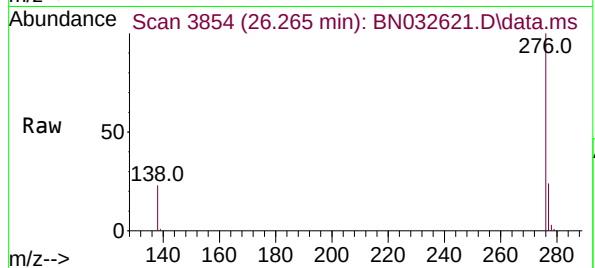
Acq: 10 Jul 2024 18:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:276 Resp: 191262

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

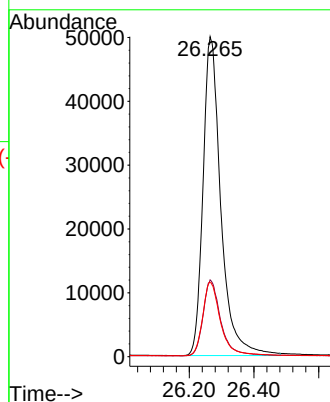
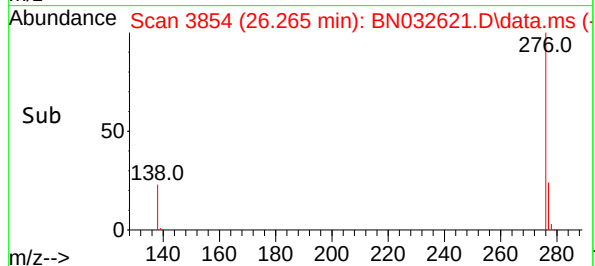
138 23.1 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032622.D
 Acq On : 10 Jul 2024 19:32
 Operator : MA/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:43:12 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:34:33 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.559	152	5387	0.400	ng	0.00
7) Naphthalene-d8	10.325	136	16995	0.400	ng	-0.03
13) Acenaphthene-d10	14.199	164	11270	0.400	ng	-0.01
19) Phenanthrene-d10	16.967	188	23755	0.400	ng	#-0.01
29) Chrysene-d12	21.175	240	21678	0.400	ng	#-0.02
35) Perylene-d12	23.382	264	19827	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.176	112	63938	4.692	ng	-0.02
5) Phenol-d6	6.758	99	88108	5.209	ng	-0.04
8) Nitrobenzene-d5	8.723	82	65619	5.129	ng	-0.05
11) 2-Methylnaphthalene-d10	11.926	152	130262	5.010	ng	-0.04
14) 2,4,6-Tribromophenol	15.713	330	27571	5.724	ng	-0.02
15) 2-Fluorobiphenyl	12.820	172	204044	4.864	ng	-0.03
27) Fluoranthene-d10	19.003	212	310962	5.060	ng	-0.02
31) Terphenyl-d14	19.611	244	207960	4.680	ng	-0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.132	88	27696	4.150	ng	98
3) n-Nitrosodimethylamine	3.450	42	25796	4.573	ng	99
6) bis(2-Chloroethyl)ether	7.003	93	74029	5.234	ng	90
9) Naphthalene	10.378	128	227198	4.828	ng	96
10) Hexachlorobutadiene	10.645	225	41068	4.567	ng	# 99
12) 2-Methylnaphthalene	12.002	142	156743	5.097	ng	97
16) Acenaphthylene	13.921	152	246134	5.368	ng	99
17) Acenaphthene	14.264	154	158672	4.885	ng	99
18) Fluorene	15.258	166	212366	4.891	ng	100
20) 4,6-Dinitro-2-methylph...	15.397	198	25426m	5.273	ng	
21) 4-Bromophenyl-phenylether	16.160	248	69439	4.975	ng	# 74
22) Hexachlorobenzene	16.259	284	73899	4.728	ng	100
23) Atrazine	16.445	200	56576	5.504	ng	# 93
24) Pentachlorophenol	16.631	266	34124	5.875	ng	98
25) Phenanthrene	17.004	178	325236	5.010	ng	100
26) Anthracene	17.091	178	302632	5.664	ng	99
28) Fluoranthene	19.035	202	399794	5.090	ng	100
30) Pyrene	19.402	202	407347	4.600	ng	99
32) Benzo(a)anthracene	21.157	228	366789	5.351	ng	100
33) Chrysene	21.211	228	382139	4.689	ng	99
34) Bis(2-ethylhexyl)phtha...	21.077	149	217511	5.732	ng	99
36) Indeno(1,2,3-cd)pyrene	25.580	276	381332	4.879	ng	99
37) Benzo(b)fluoranthene	22.712	252	374321	5.420	ng	# 86
38) Benzo(k)fluoranthene	22.756	252	375339	4.692	ng	# 85
39) Benzo(a)pyrene	23.282	252	315369	5.064	ng	# 77
40) Dibenzo(a,h)anthracene	25.586	278	304385	4.931	ng	# 90
41) Benzo(g,h,i)perylene	26.262	276	320415	4.686	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032622.D
Acq On : 10 Jul 2024 19:32
Operator : MA/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

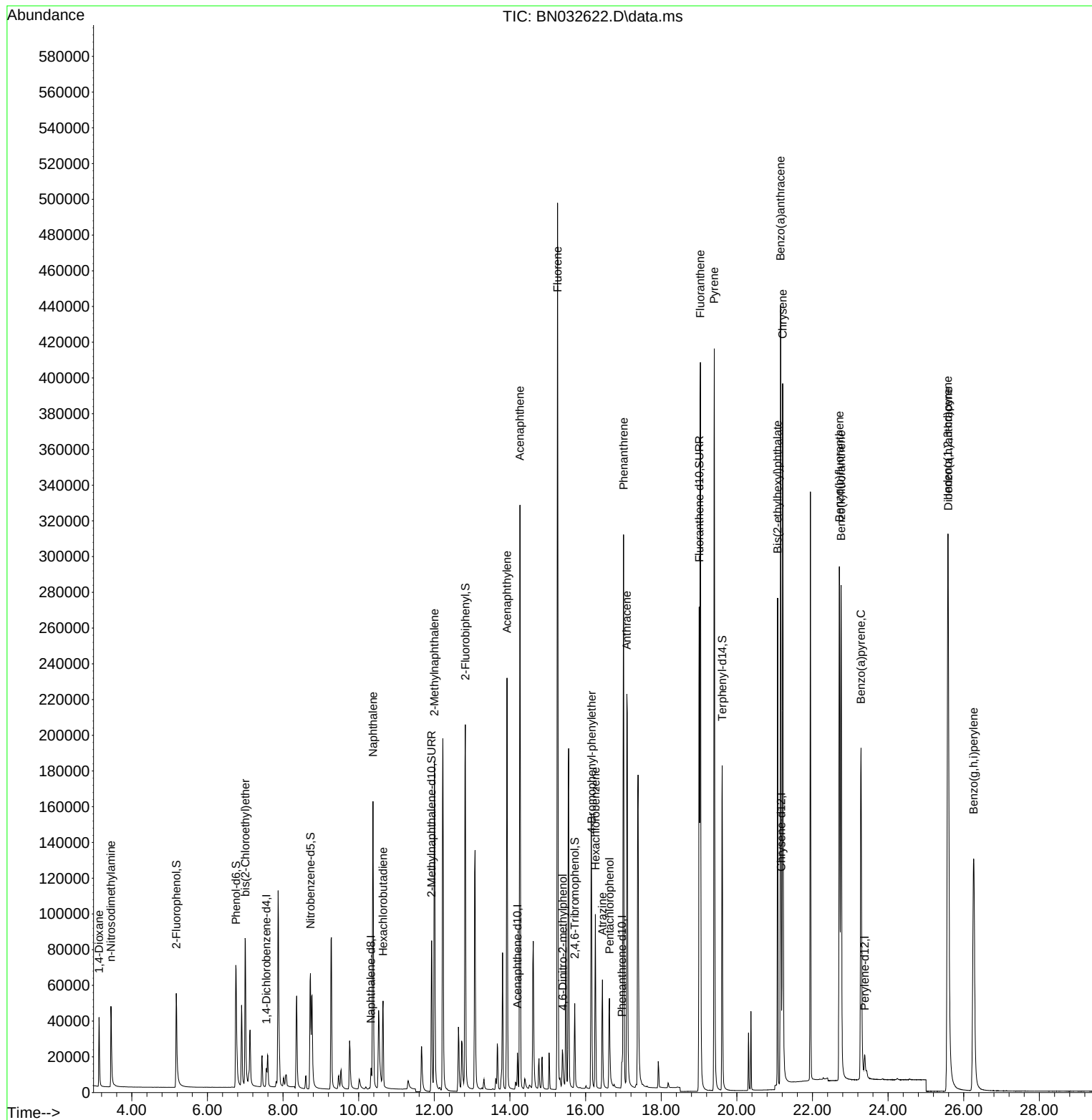
Manual Integrations

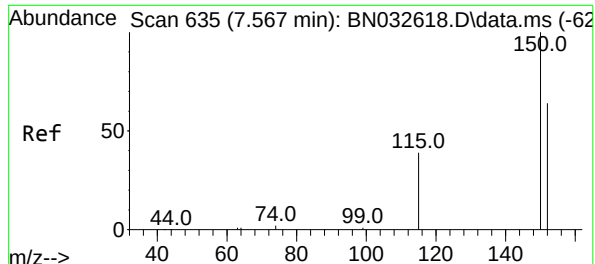
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

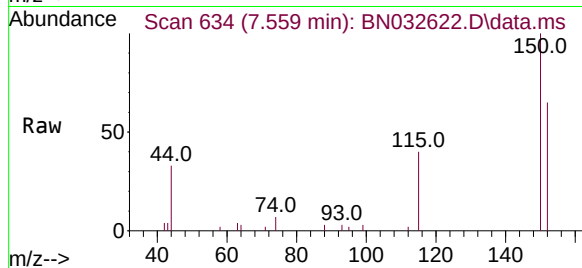
Quant Time: Jul 10 23:43:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:34:33 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.559 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

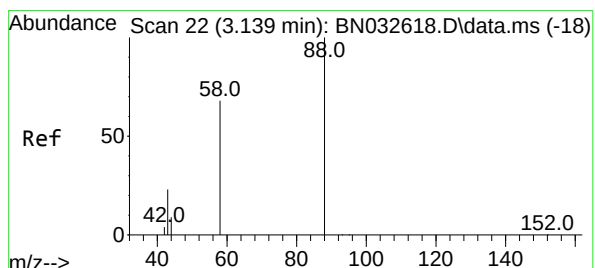
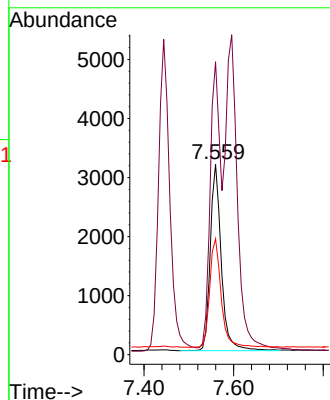
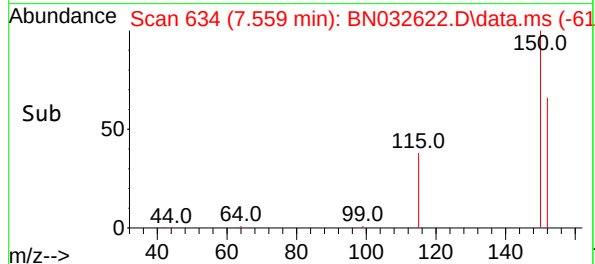
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion: 152 Resp: 538
Ion Ratio Lower Upper
152 100
150 153.7 123.8 185.6
115 60.8 52.8 79.2

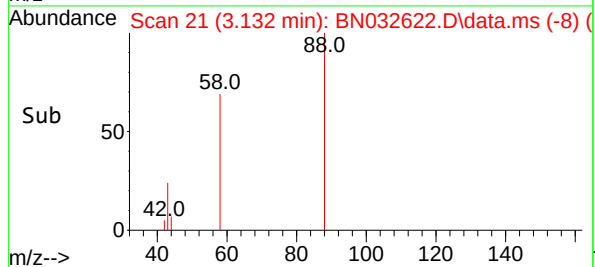
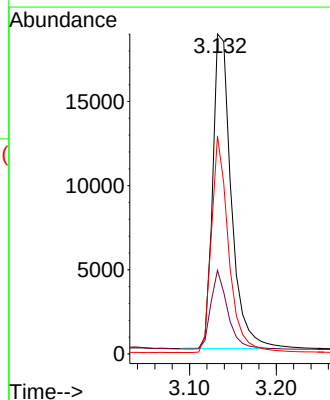
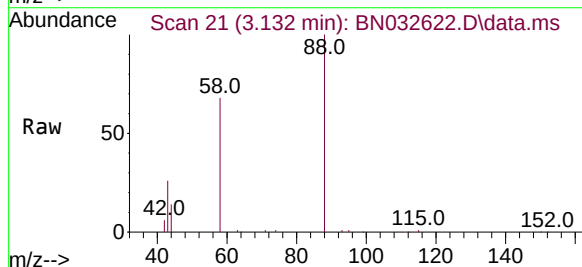
Manual Integrations
APPROVED

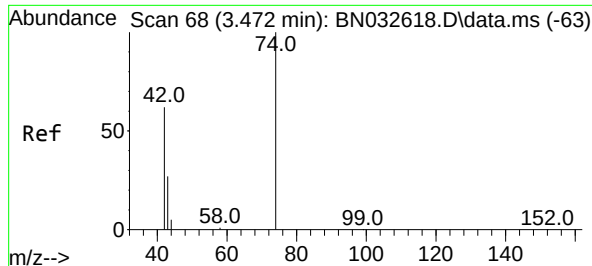
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 4.150 ng
RT: 3.132 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion: 88 Resp: 27696
Ion Ratio Lower Upper
88 100
43 22.7 18.4 27.6
58 63.8 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 4.573 ng
RT: 3.450 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

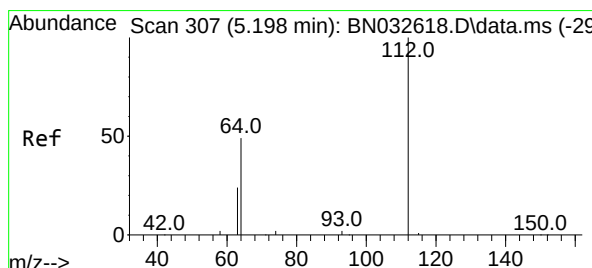
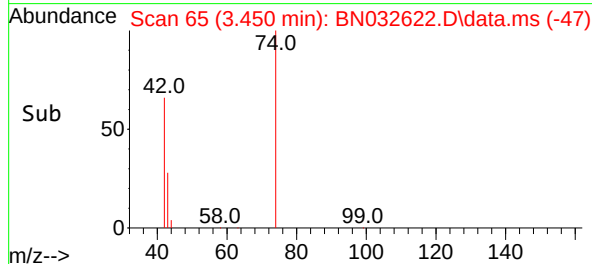
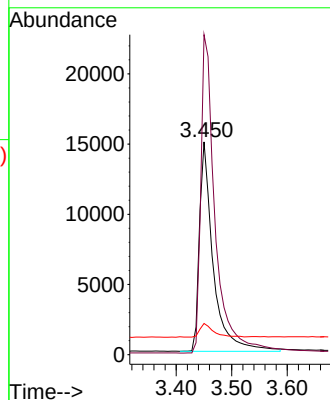
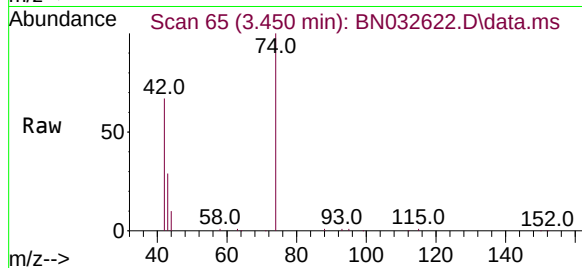
ClientSampleId :

SSTDICC5.0

Tgt Ion: 42 Resp: 25790
Ion Ratio Lower Upper
42 100
74 159.7 126.9 190.3
44 6.4 4.8 7.2

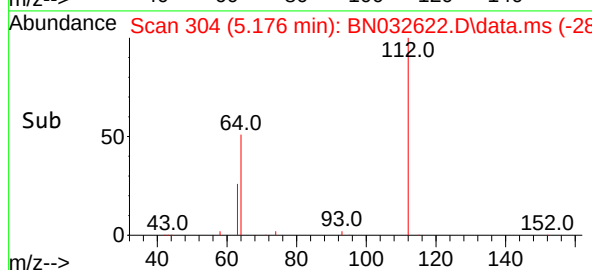
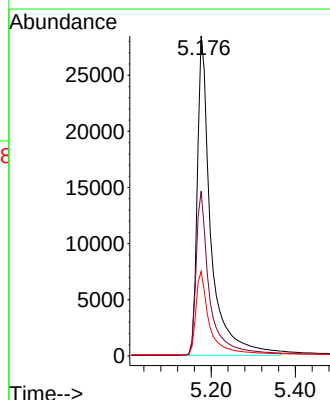
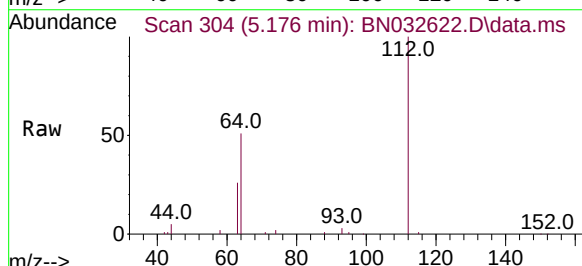
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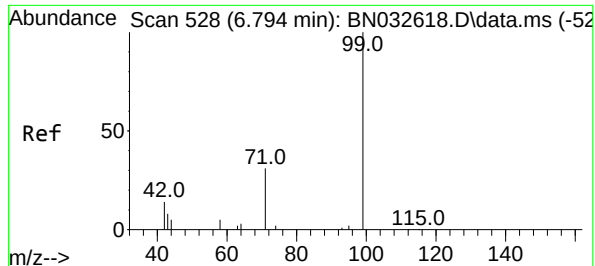
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 4.692 ng
RT: 5.176 min Scan# 304
Delta R.T. -0.022 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:112 Resp: 63938
Ion Ratio Lower Upper
112 100
64 51.2 40.2 60.4
63 26.3 22.2 33.4





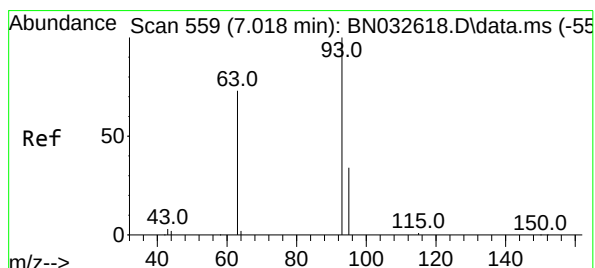
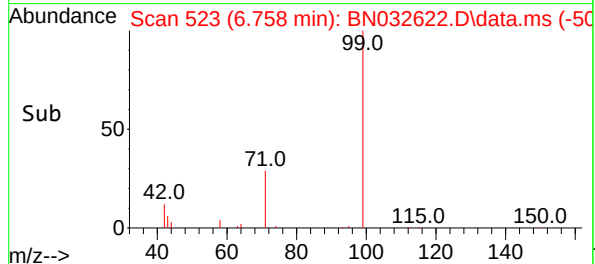
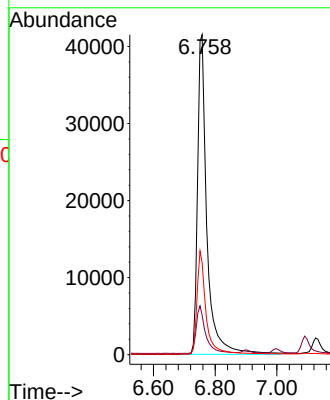
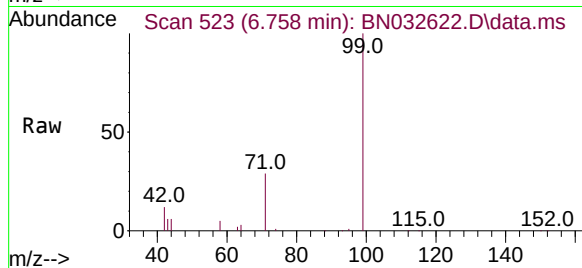
#5
Phenol-d6
Concen: 5.209 ng
RT: 6.758 min Scan# 51
Delta R.T. -0.036 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 88108
Ion Ratio Lower Upper
99 100
42 14.9 10.5 15.7
71 31.2 22.3 33.5

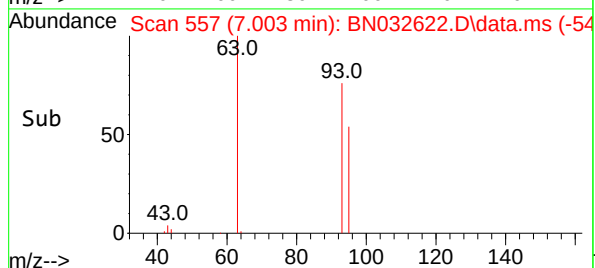
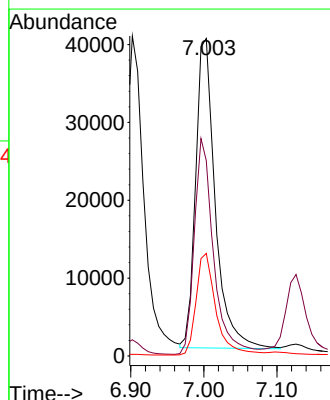
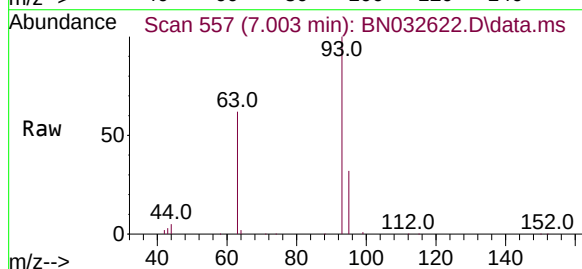
Manual Integrations
APPROVED

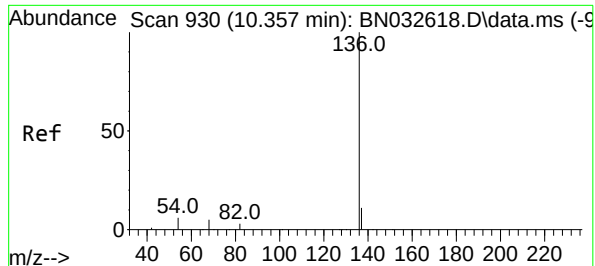
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 5.234 ng
RT: 7.003 min Scan# 557
Delta R.T. -0.014 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion: 93 Resp: 74029
Ion Ratio Lower Upper
93 100
63 68.6 46.4 69.6
95 33.3 25.5 38.3





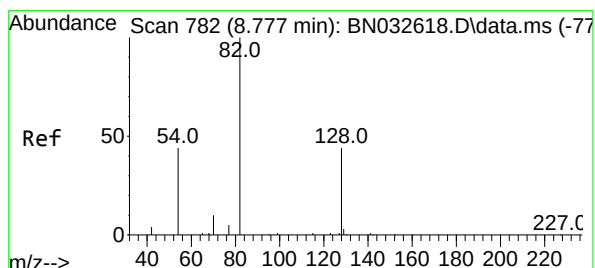
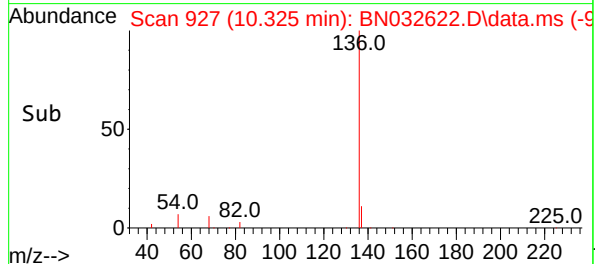
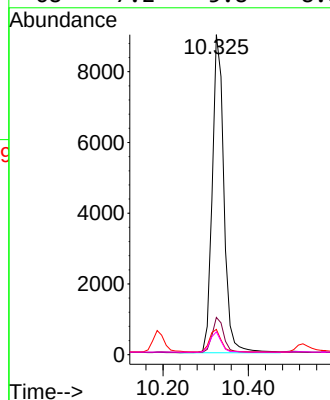
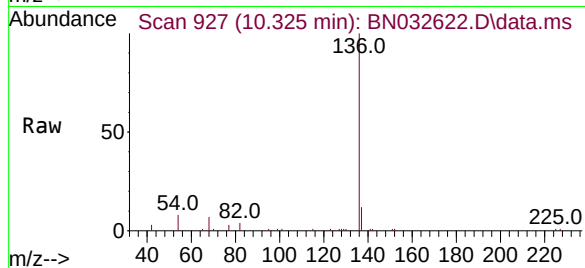
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.325 min Scan# 911
Delta R.T. -0.032 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.9	14.9
54	7.9	6.5	9.7
68	7.2	5.8	8.8

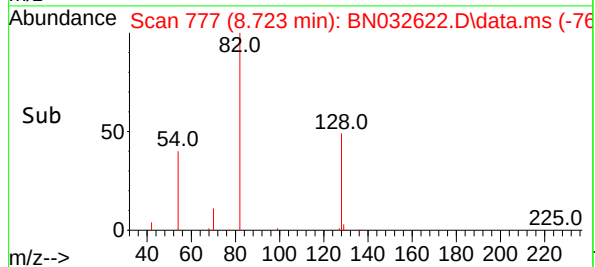
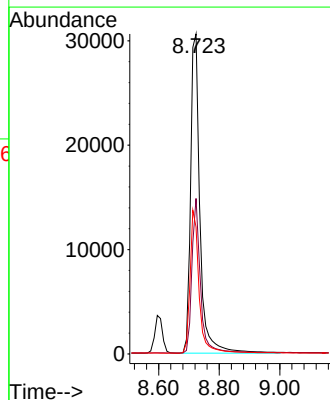
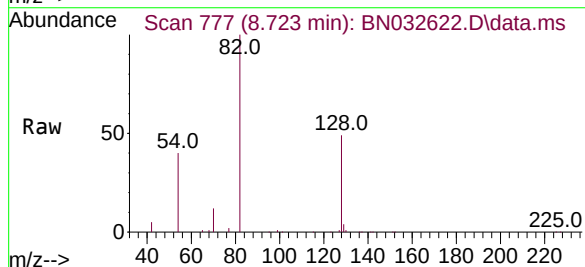
Manual Integrations
APPROVED

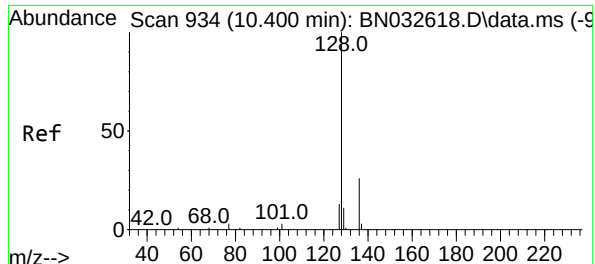
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 5.129 ng
RT: 8.723 min Scan# 777
Delta R.T. -0.053 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion	Ratio	Lower	Upper
82	100		
128	48.6	41.7	62.5
54	39.7	39.5	59.3





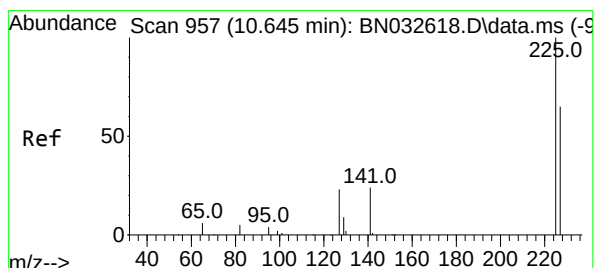
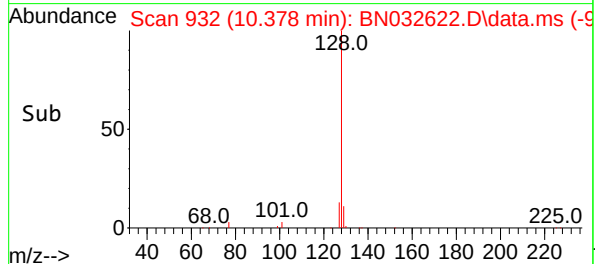
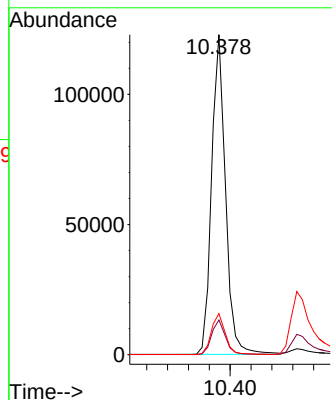
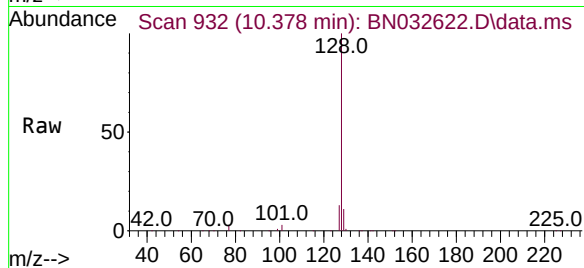
#9
Naphthalene
Concen: 4.828 ng
RT: 10.378 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 227198
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.8
127 12.9 11.5 17.3

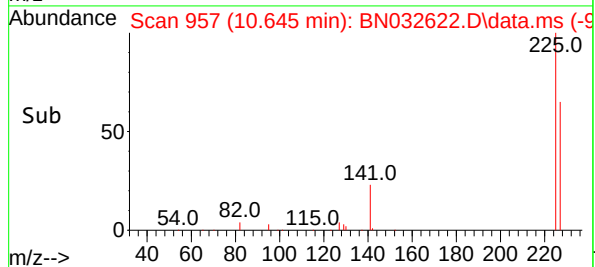
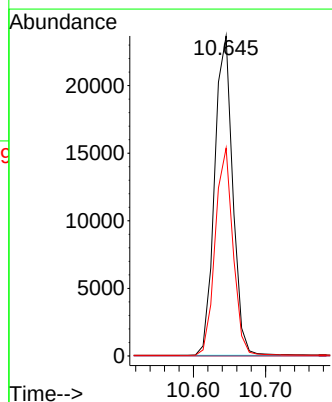
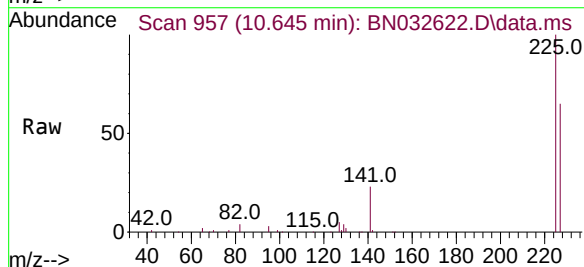
Manual Integrations
APPROVED

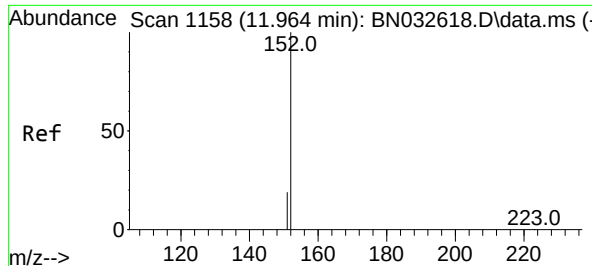
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 4.567 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

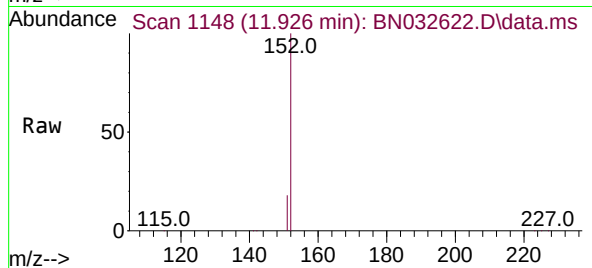
Tgt Ion:225 Resp: 41068
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 5.010 ng
RT: 11.926 min Scan# 1158
Delta R.T. -0.038 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

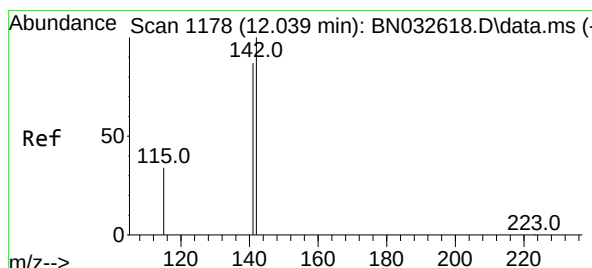
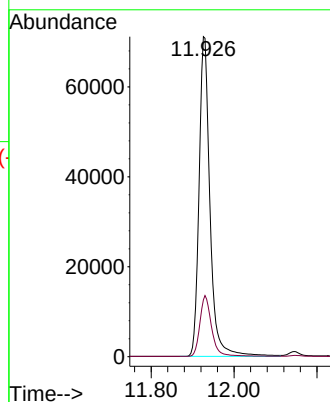
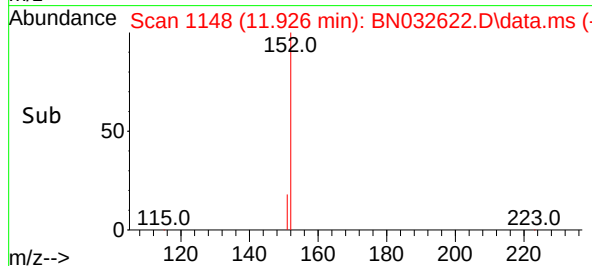
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:152 Resp: 13026
Ion Ratio Lower Upper
152 100
151 20.5 16.2 24.2

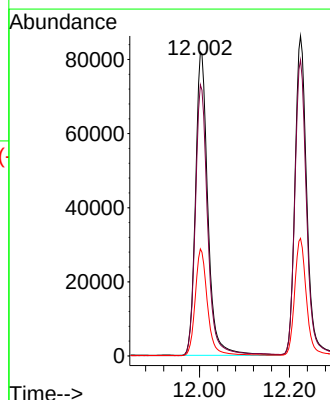
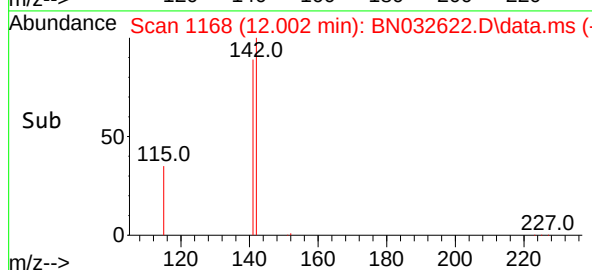
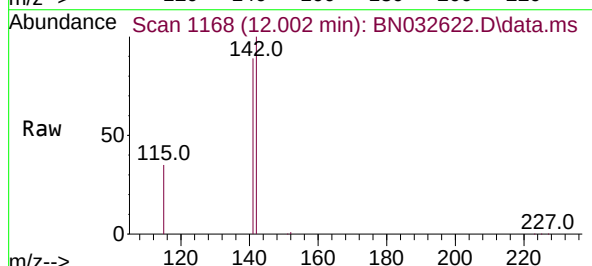
Manual Integrations
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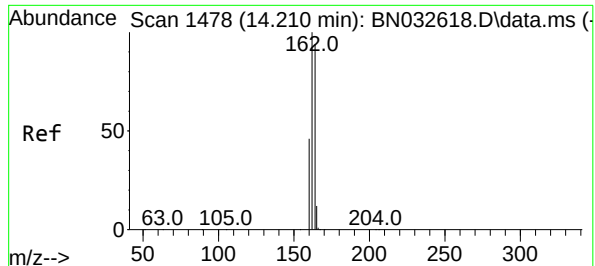
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#12
2-Methylnaphthalene
Concen: 5.097 ng
RT: 12.002 min Scan# 1168
Delta R.T. -0.038 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

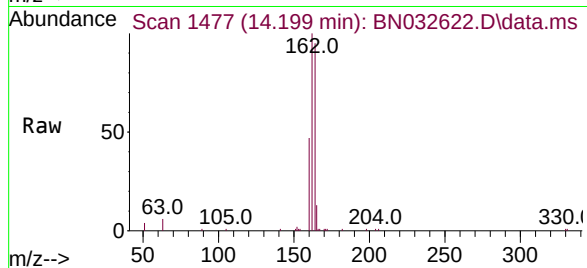
Tgt Ion:142 Resp: 156743
Ion Ratio Lower Upper
142 100
141 89.3 69.3 103.9
115 35.2 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.199 min Scan# 1477
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

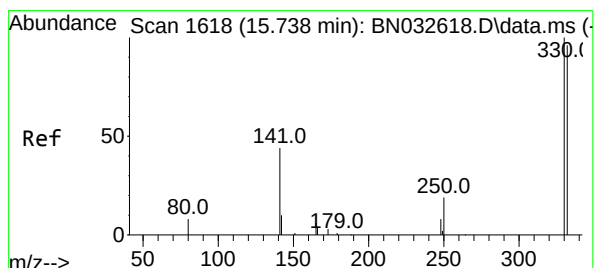
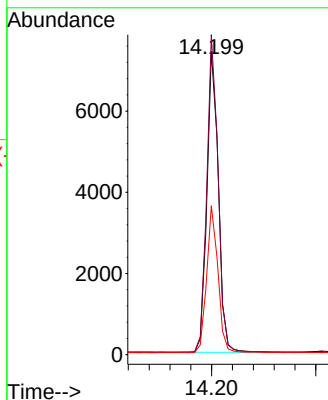
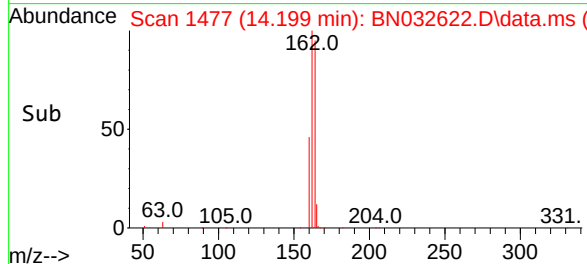
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



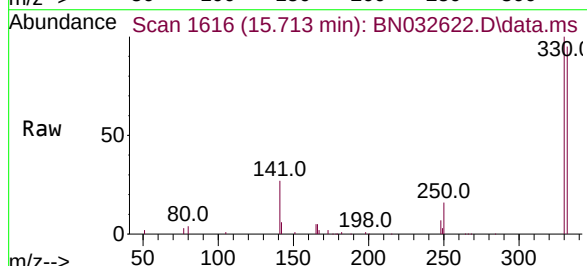
Tgt Ion:164 Resp: 11270
Ion Ratio Lower Upper
164 100
162 105.5 85.0 127.4
160 49.1 39.4 59.2

Manual Integrations
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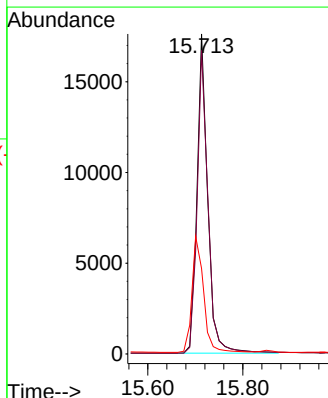
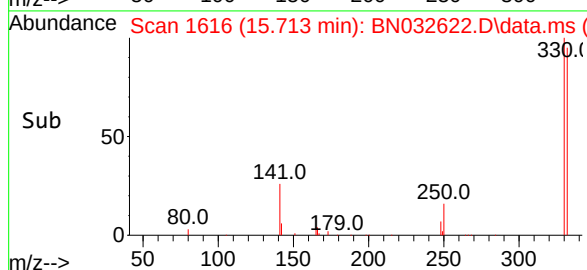
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

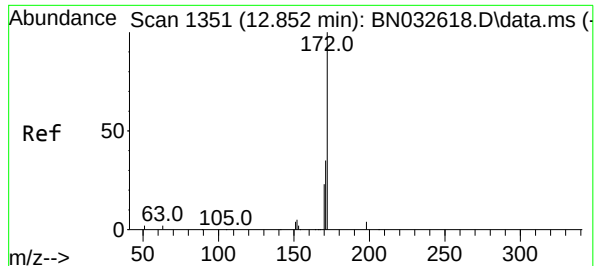


#14
2,4,6-Tribromophenol
Concen: 5.724 ng
RT: 15.713 min Scan# 1616
Delta R.T. -0.025 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32



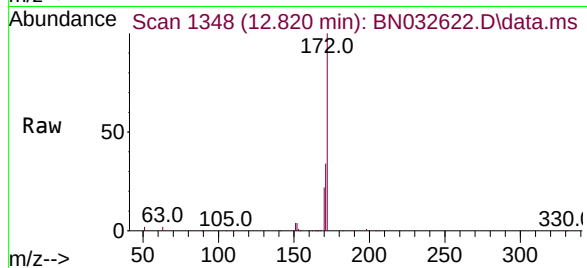
Tgt Ion:330 Resp: 27571
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.8
141 39.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 4.864 ng
RT: 12.820 min Scan# 11
Delta R.T. -0.032 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

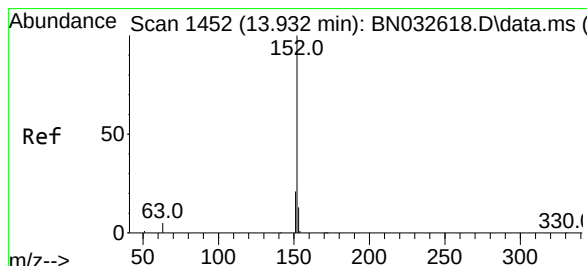
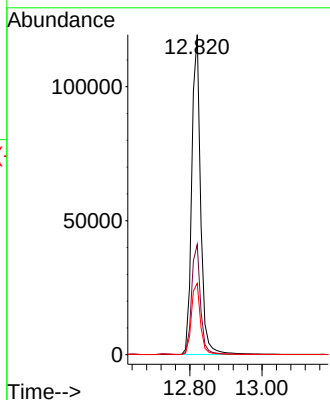
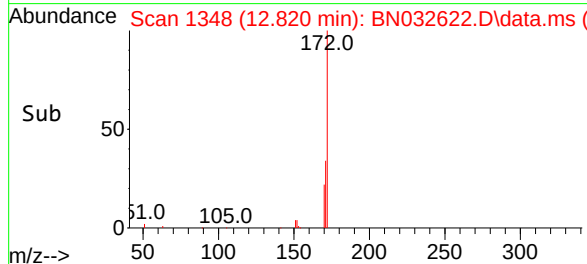
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:172 Resp: 20404
Ion Ratio Lower Upper
172 100
171 34.4 28.6 43.0
170 22.3 19.0 28.6

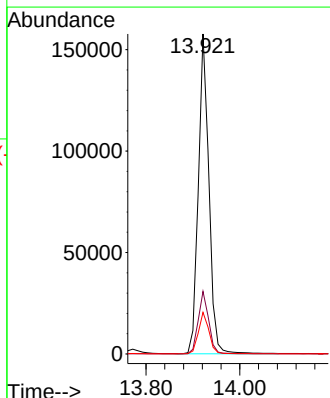
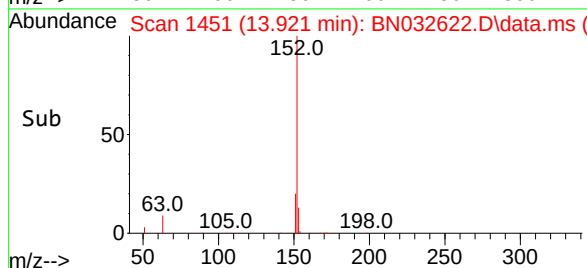
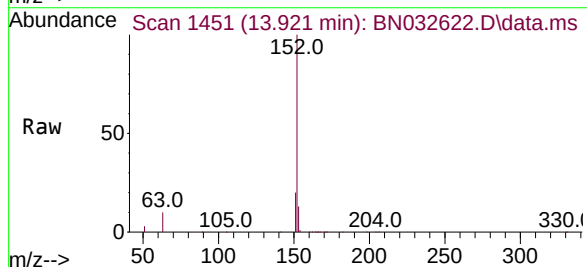
Manual Integrations
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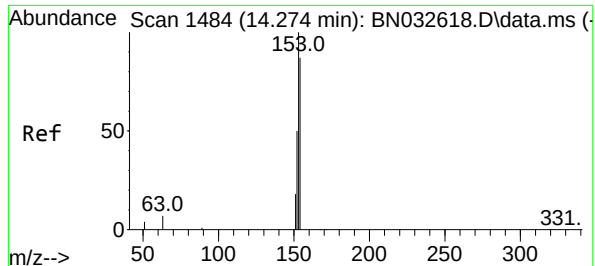
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#16
Acenaphthylene
Concen: 5.368 ng
RT: 13.921 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

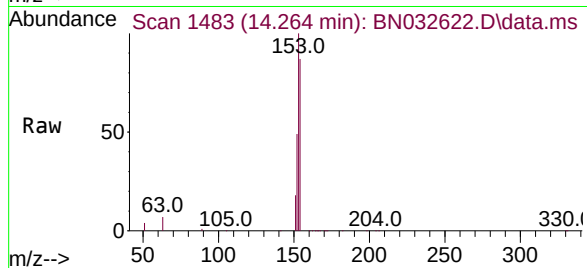
Tgt Ion:152 Resp: 246134
Ion Ratio Lower Upper
152 100
151 19.4 16.0 24.0
153 13.0 10.6 15.8





#17
Acenaphthene
Concen: 4.885 ng
RT: 14.264 min Scan# 1483
Delta R.T. -0.011 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

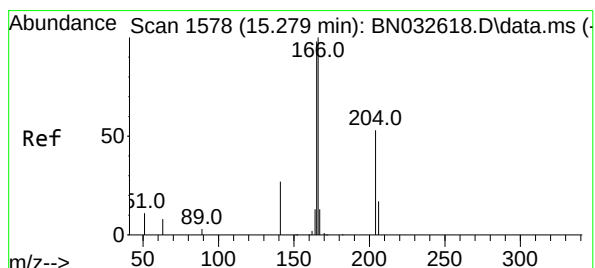
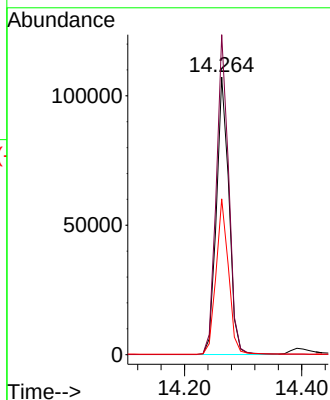
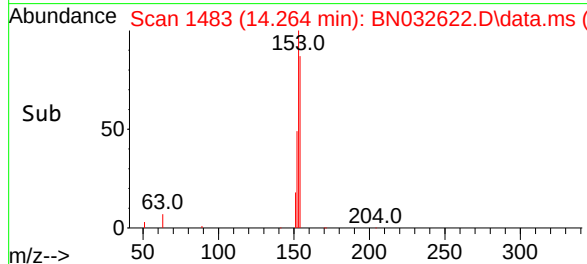
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



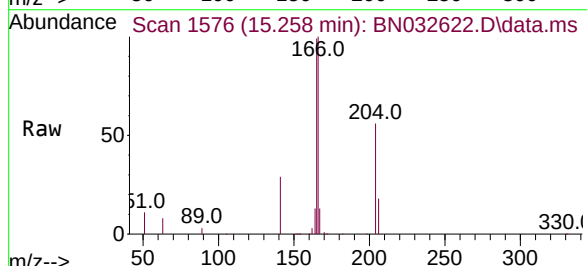
Tgt Ion:154 Resp: 158672
Ion Ratio Lower Upper
154 100
153 114.1 91.8 137.8
152 55.4 45.2 67.8

Manual Integrations
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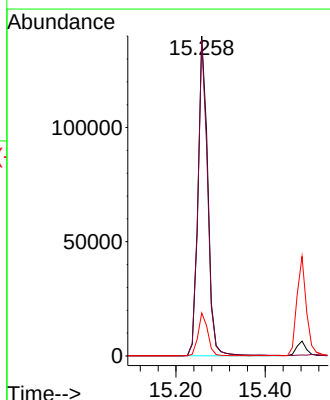
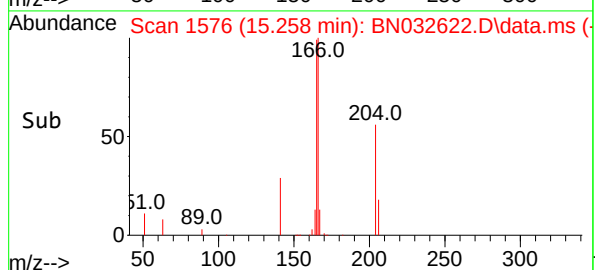
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

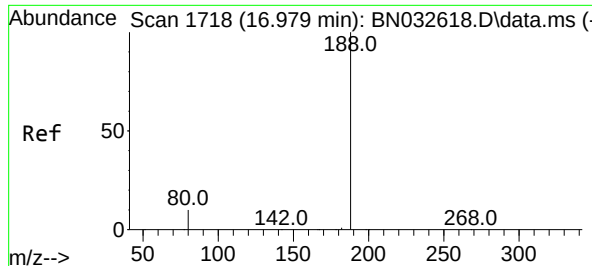


#18
Fluorene
Concen: 4.891 ng
RT: 15.258 min Scan# 1576
Delta R.T. -0.021 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32



Tgt Ion:166 Resp: 212366
Ion Ratio Lower Upper
166 100
165 97.5 78.0 117.0
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.967 min Scan# 11

Delta R.T. -0.012 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

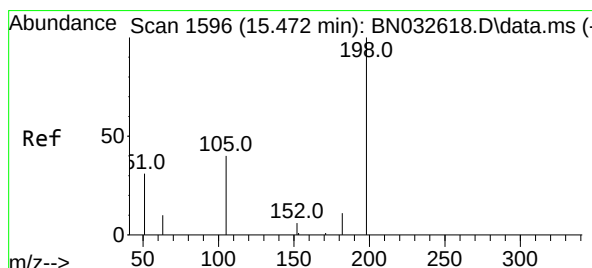
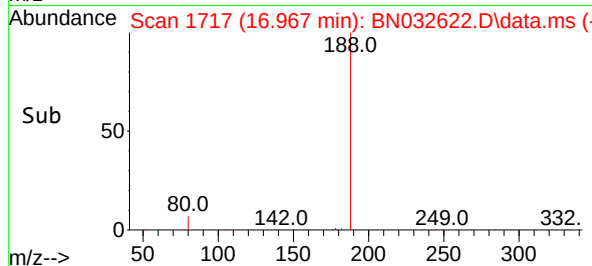
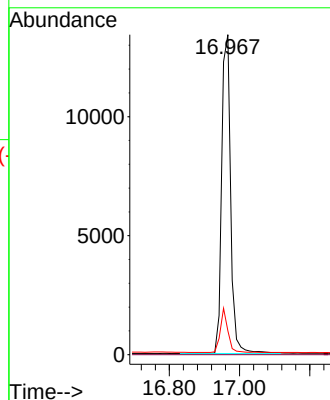
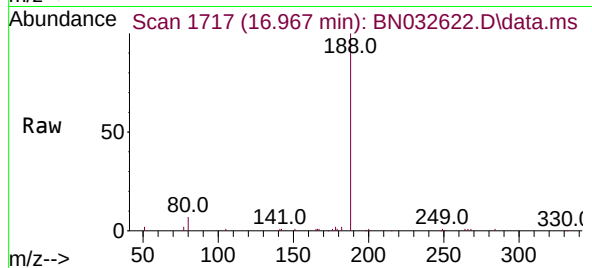
SSTDICC5.0

Tgt Ion:188	Resp:	2375
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	7.5	8.8

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 5.273 ng m

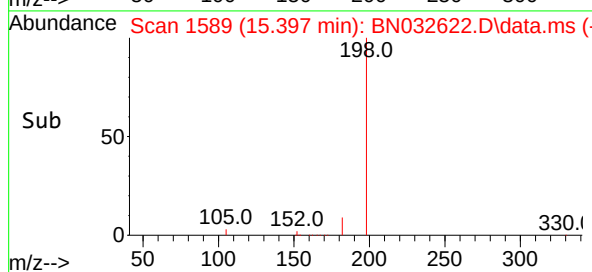
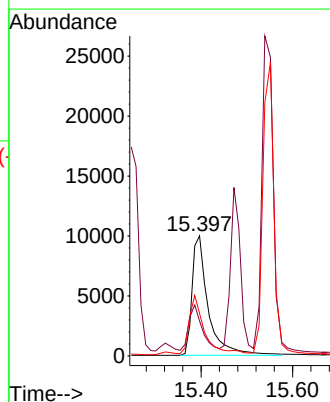
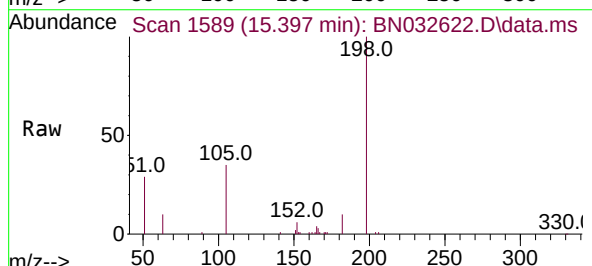
RT: 15.397 min Scan# 1589

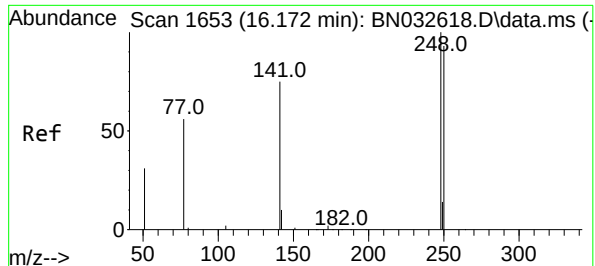
Delta R.T. -0.075 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

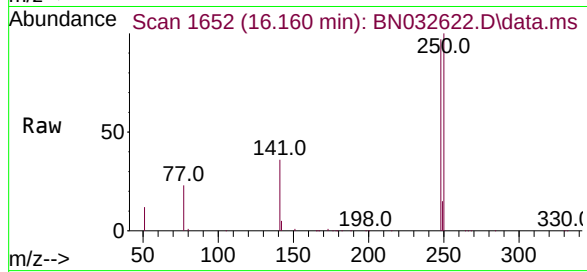
Tgt Ion:198	Resp:	25426
Ion Ratio	Lower	Upper
198	100	
51	29.0	105.7
105	35.4	63.0





#21
4-Bromophenyl-phenylether
Concen: 4.975 ng
RT: 16.160 min Scan# 1652
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

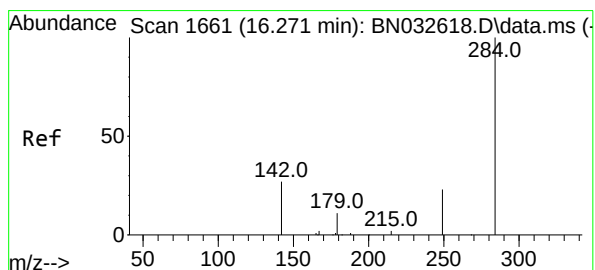
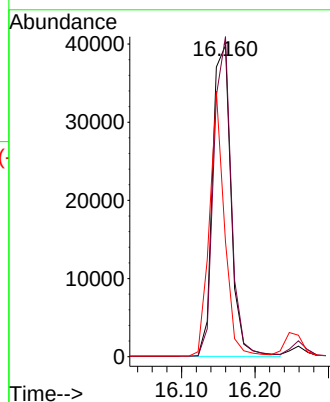
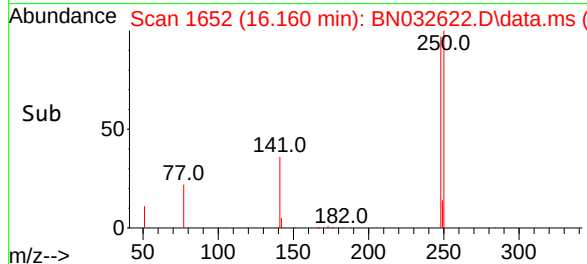
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



Tgt Ion:248 Resp: 69439
Ion Ratio Lower Upper
248 100
250 102.8 75.1 112.7
141 37.0 62.0 93.0

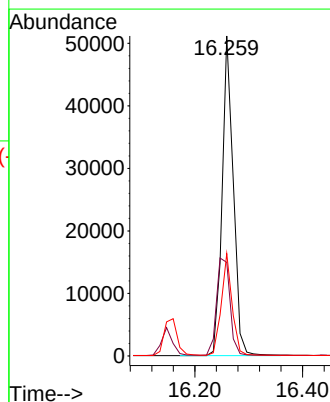
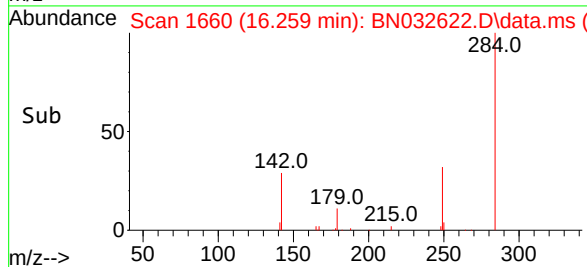
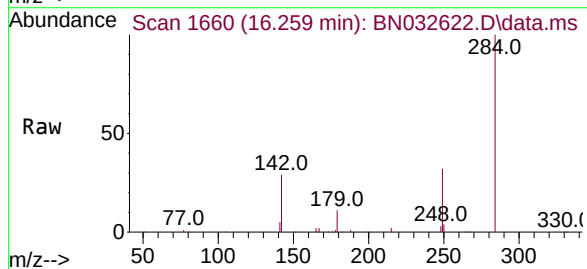
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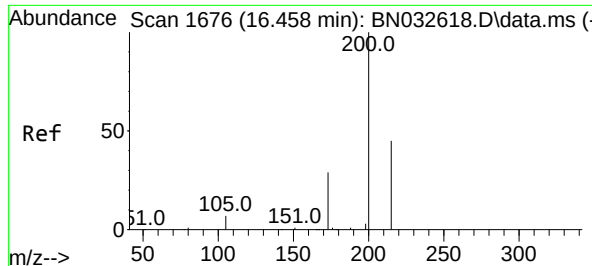
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 4.728 ng
RT: 16.259 min Scan# 1660
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:284 Resp: 73899
Ion Ratio Lower Upper
284 100
142 36.5 29.4 44.0
249 30.6 24.6 36.8





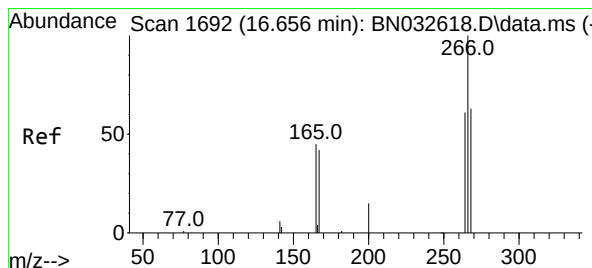
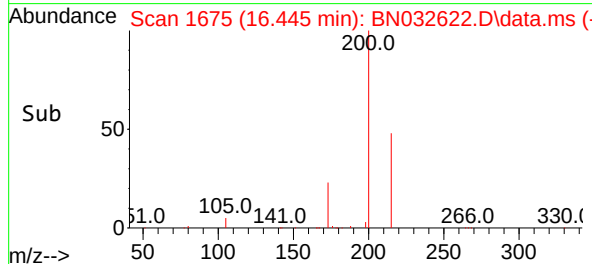
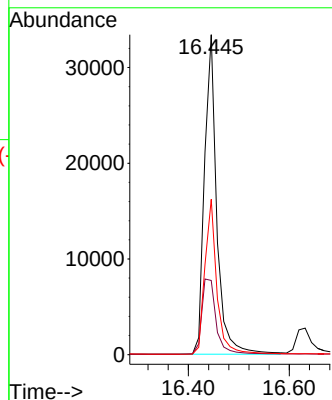
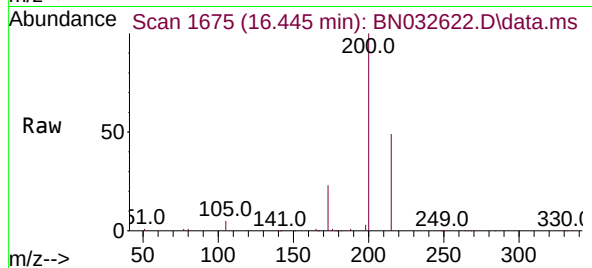
#23
Atrazine
Concen: 5.504 ng
RT: 16.445 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 56570
Ion Ratio Lower Upper
200 100
173 23.2 25.4 38.2
215 48.5 38.2 57.2

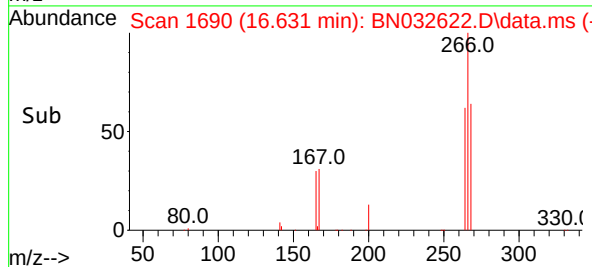
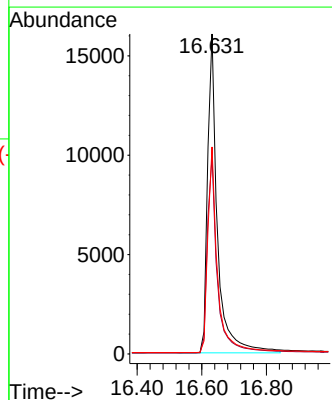
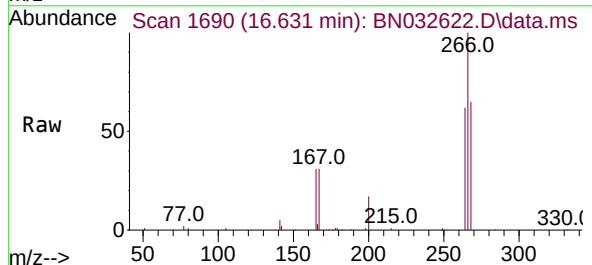
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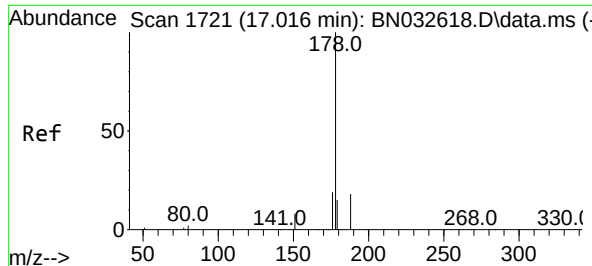
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 5.875 ng
RT: 16.631 min Scan# 1690
Delta R.T. -0.025 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:266 Resp: 34124
Ion Ratio Lower Upper
266 100
264 62.8 50.2 75.2
268 63.7 52.8 79.2





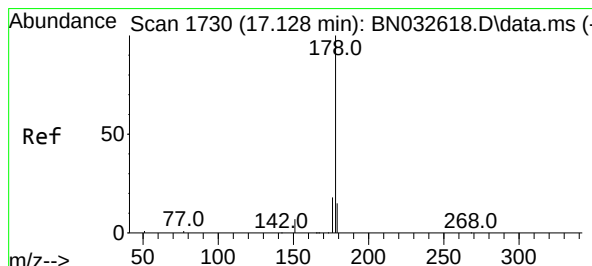
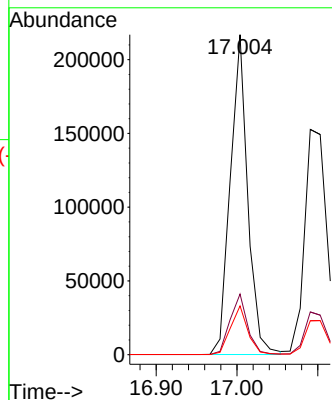
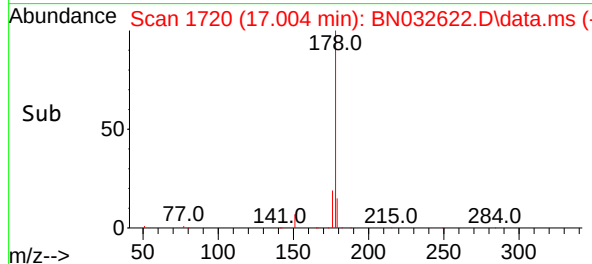
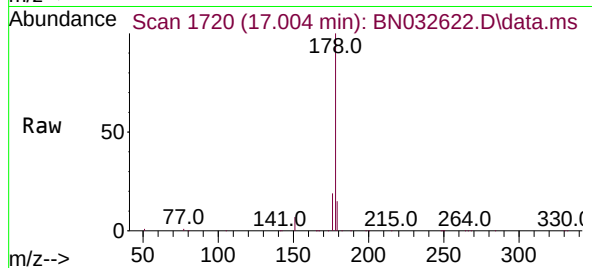
#25
Phenanthrene
Concen: 5.010 ng
RT: 17.004 min Scan# 1720
Delta R.T. -0.012 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 325230
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.2 12.2 18.4

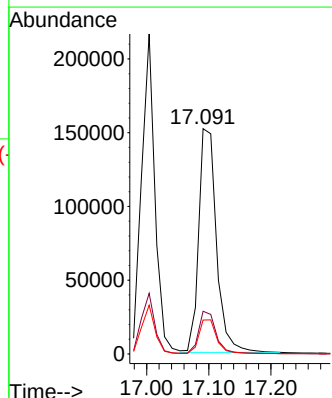
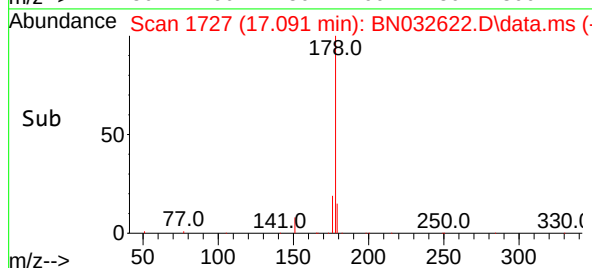
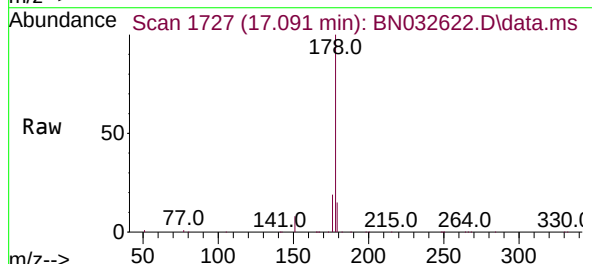
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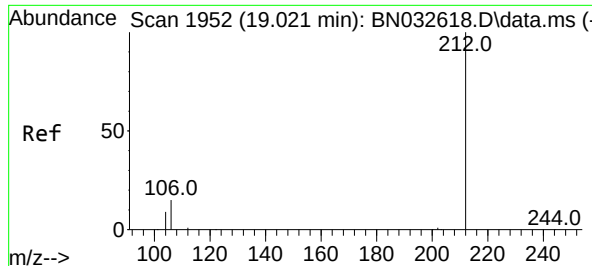
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 5.664 ng
RT: 17.091 min Scan# 1727
Delta R.T. -0.037 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion:178 Resp: 302632
Ion Ratio Lower Upper
178 100
176 18.4 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 5.060 ng

RT: 19.003 min Scan# 1948

Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:212 Resp: 31096

Ion Ratio Lower Upper

212 100

106 14.9 11.9 17.9

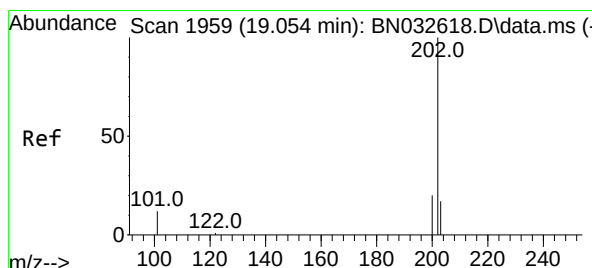
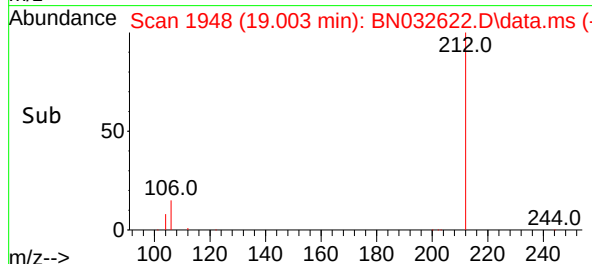
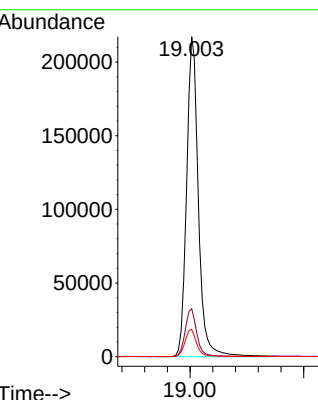
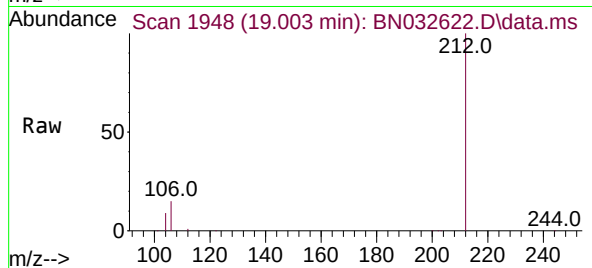
104 8.5 6.9 10.3

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 5.090 ng

RT: 19.035 min Scan# 1955

Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

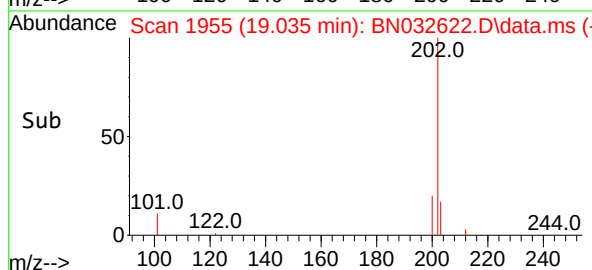
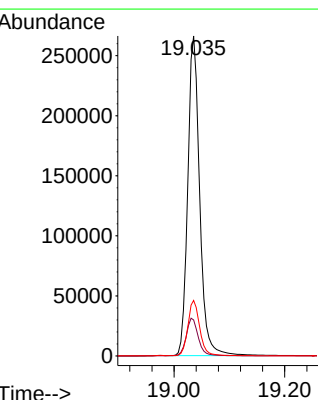
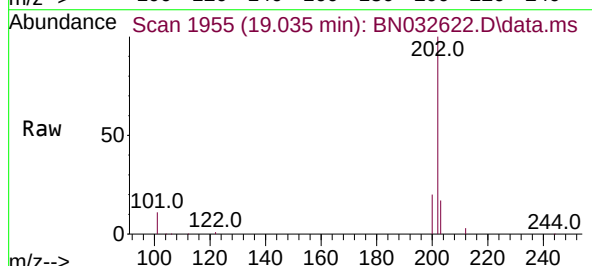
Tgt Ion:202 Resp: 399794

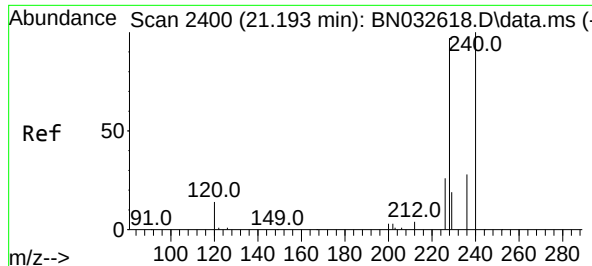
Ion Ratio Lower Upper

202 100

101 12.0 9.6 14.4

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.175 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

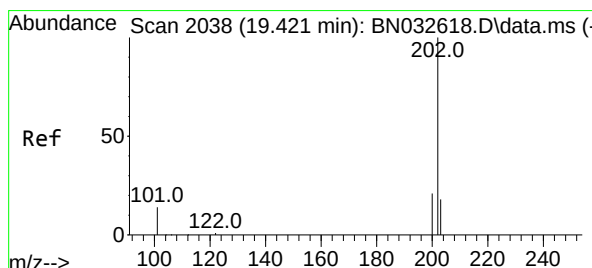
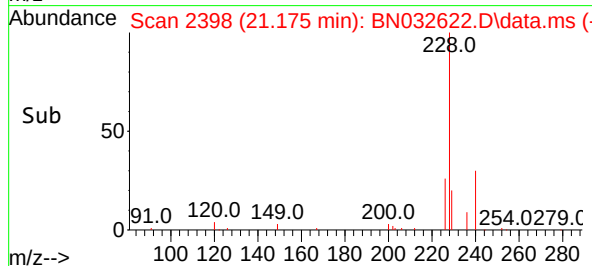
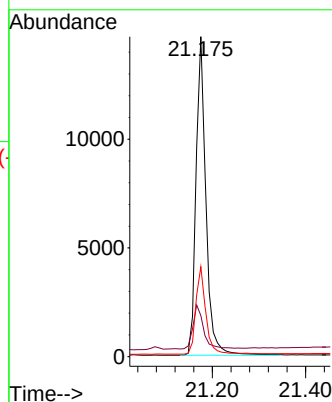
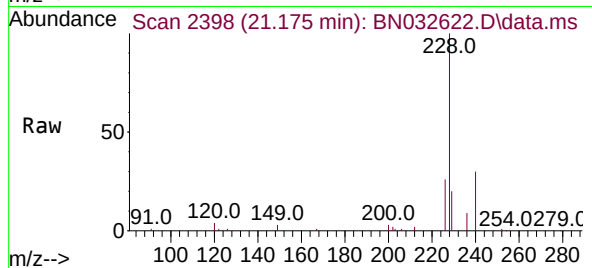
SSTDICC5.0

Tgt Ion:	240	Resp:	21678
Ion Ratio	Lower	Upper	
240	100		
120	12.8	14.8	22.2
236	28.1	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 4.600 ng

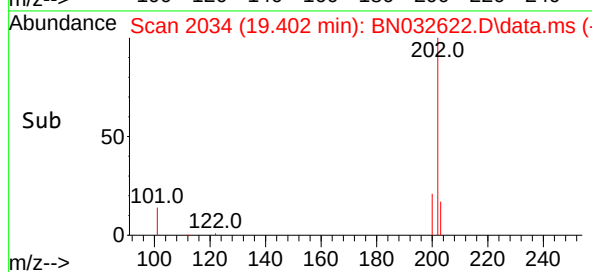
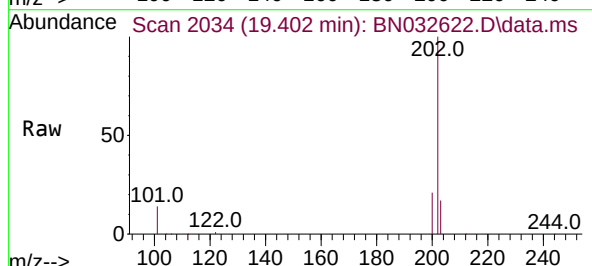
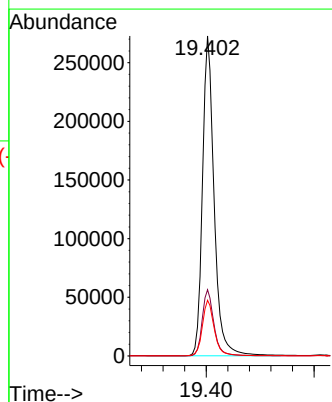
RT: 19.402 min Scan# 2034

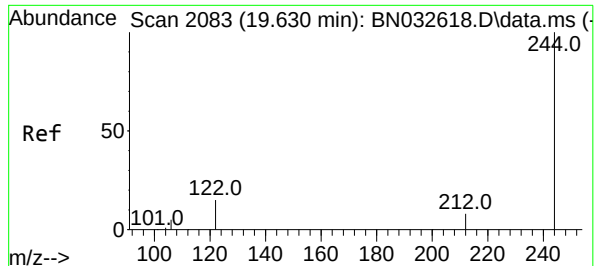
Delta R.T. -0.019 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Tgt Ion:	202	Resp:	407347
Ion Ratio	Lower	Upper	
202	100		
200	20.8	16.6	25.0
203	17.9	14.8	22.2





#31
Terphenyl-d14
Concen: 4.680 ng
RT: 19.611 min Scan# 2079
Delta R.T. -0.019 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

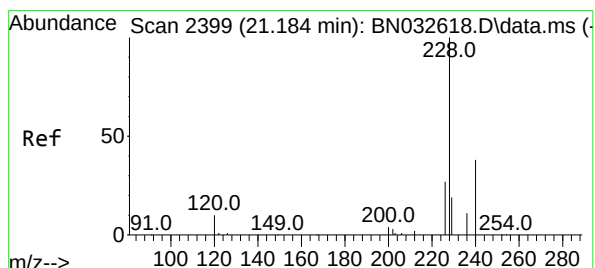
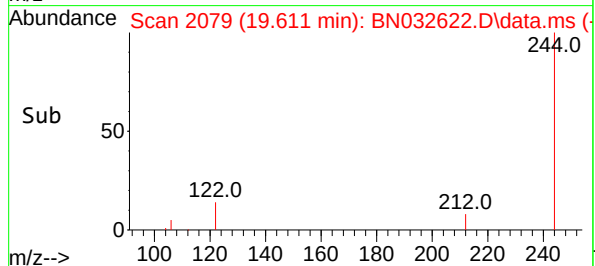
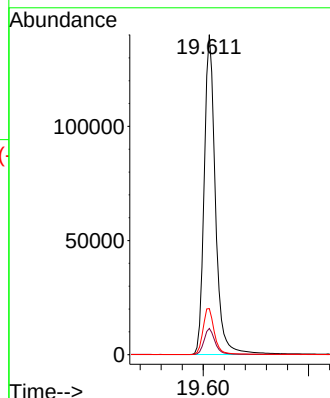
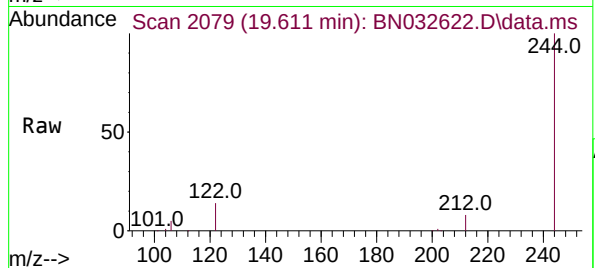
ClientSampleId :

SSTDICC5.0

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.2	7.5	11.3
122	14.4	12.6	19.0

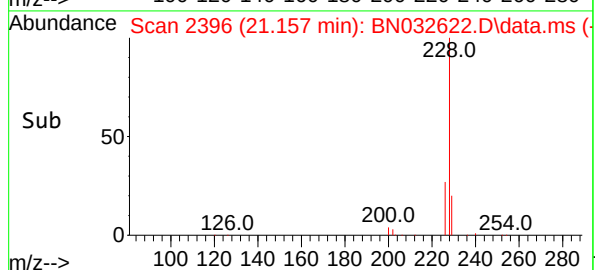
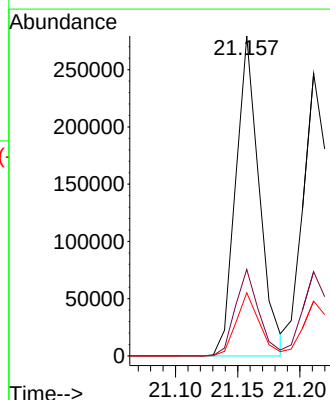
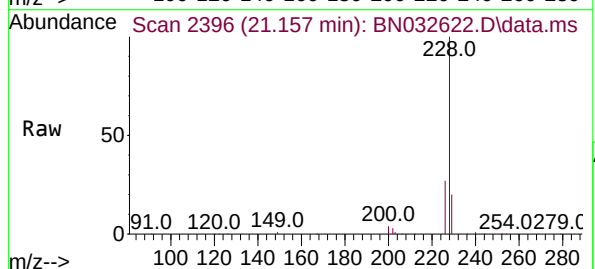
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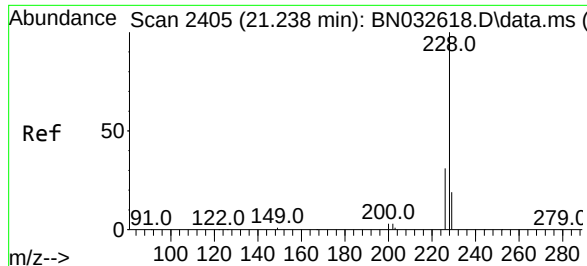
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 5.351 ng
RT: 21.157 min Scan# 2396
Delta R.T. -0.027 min
Lab File: BN032622.D
Acq: 10 Jul 2024 19:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 4.689 ng

RT: 21.211 min Scan# 2405

Delta R.T. -0.027 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:228 Resp: 382139

Ion Ratio Lower Upper

228 100

226 29.9 24.2 36.2

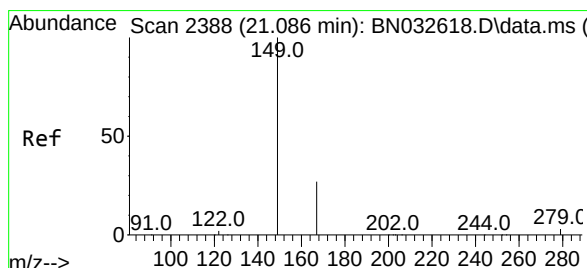
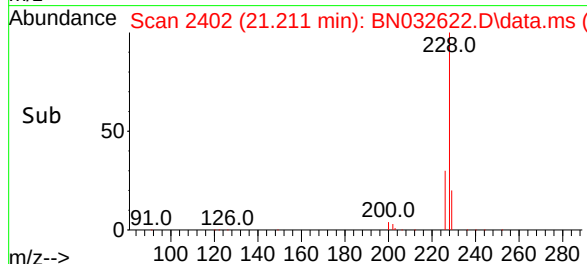
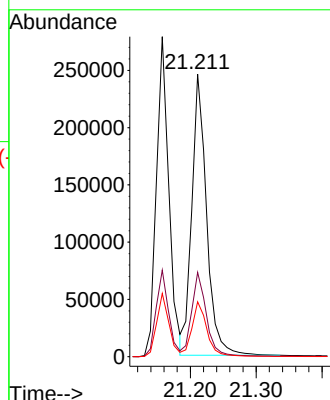
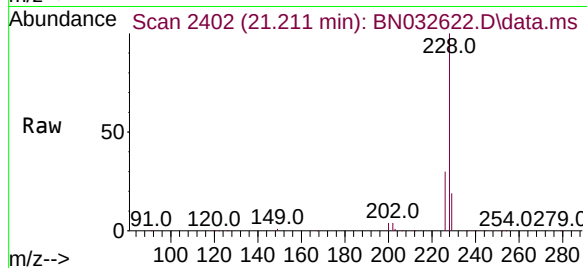
229 19.4 16.0 24.0

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.732 ng

RT: 21.077 min Scan# 2387

Delta R.T. -0.009 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

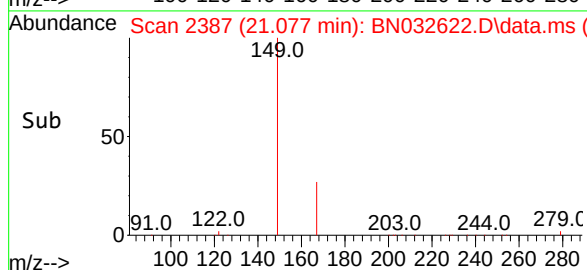
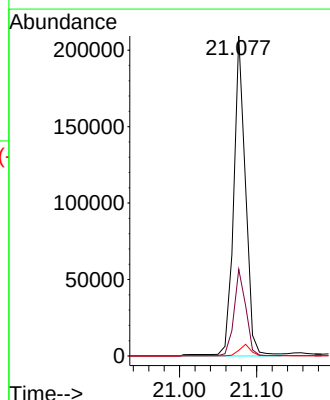
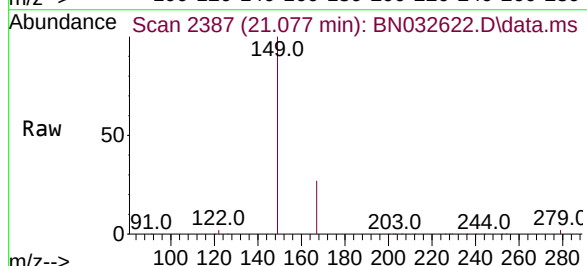
Tgt Ion:149 Resp: 217511

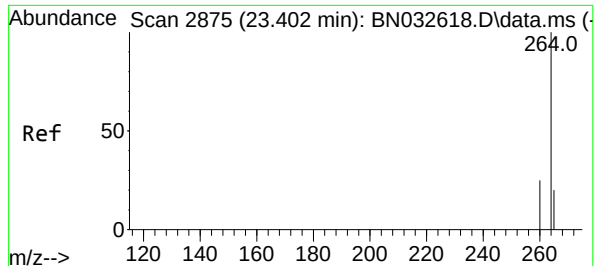
Ion Ratio Lower Upper

149 100

167 27.6 21.4 32.2

279 4.0 2.8 4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.382 min Scan# 21

Delta R.T. -0.020 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:264 Resp: 1982

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

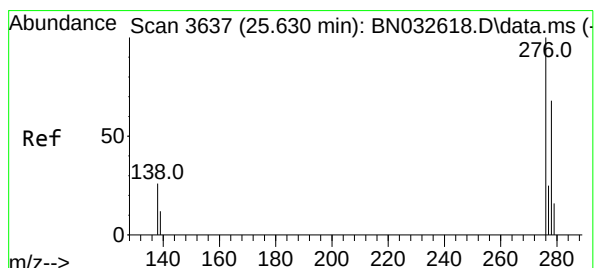
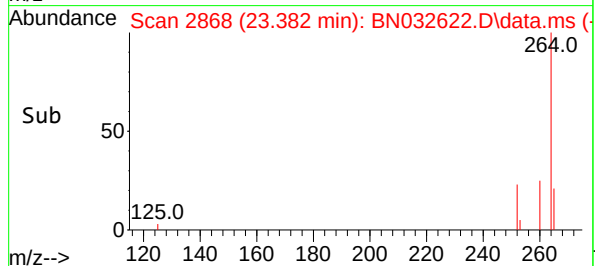
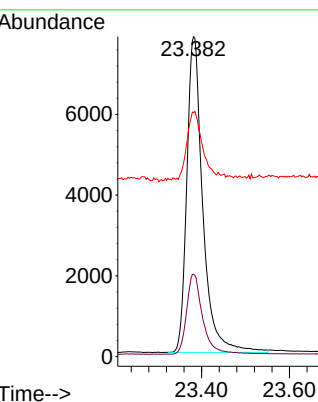
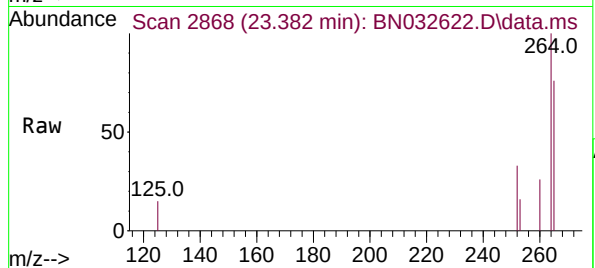
265 76.3 85.4 128.2

Manual Integrations

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.879 ng

RT: 25.580 min Scan# 3620

Delta R.T. -0.050 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

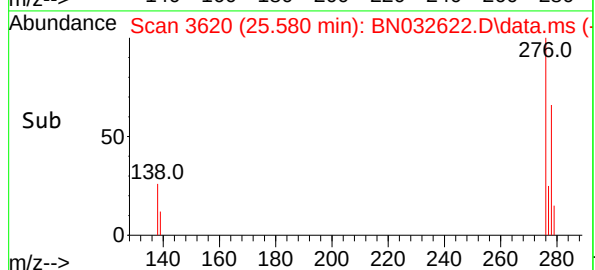
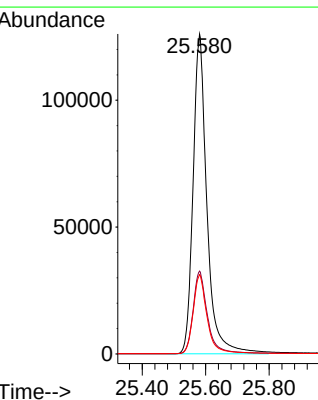
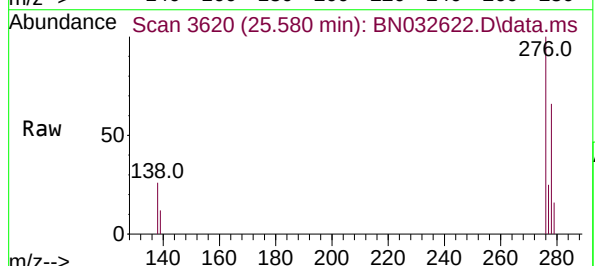
Tgt Ion:276 Resp: 381332

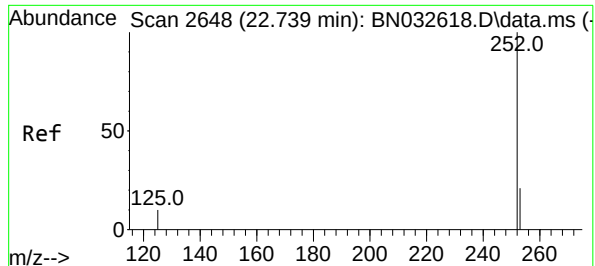
Ion Ratio Lower Upper

276 100

138 26.8 21.0 31.4

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.420 ng

RT: 22.712 min Scan# 2639

Delta R.T. -0.026 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:252 Resp: 37432

Ion Ratio Lower Upper

252 100

253 22.0 22.3 33.5

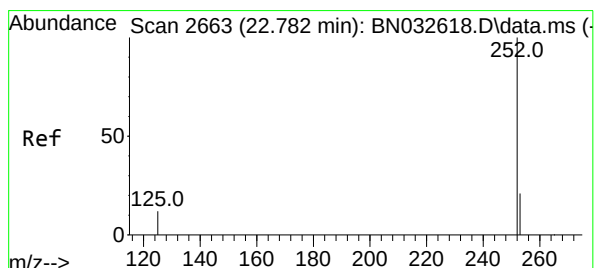
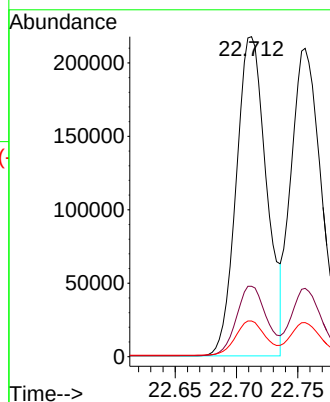
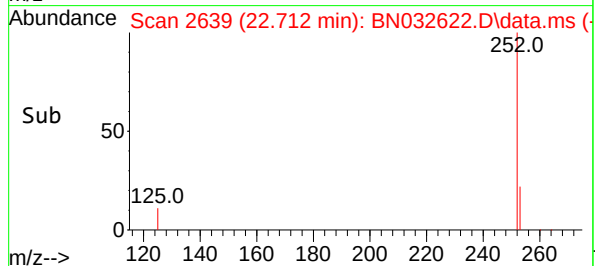
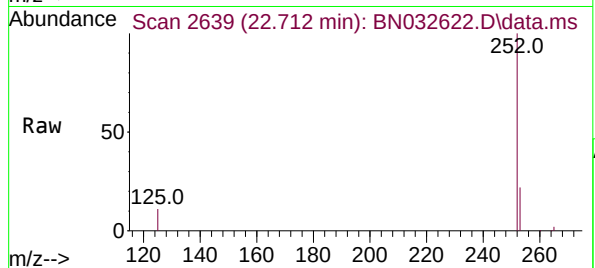
125 11.1 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 4.692 ng

RT: 22.756 min Scan# 2654

Delta R.T. -0.026 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

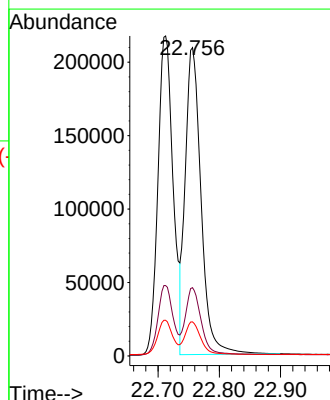
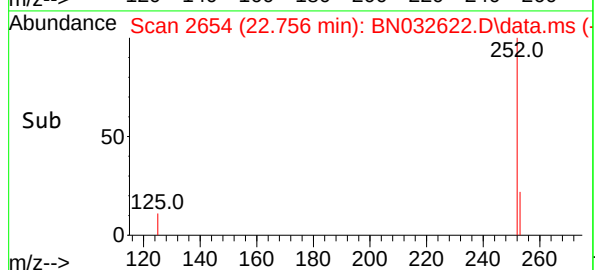
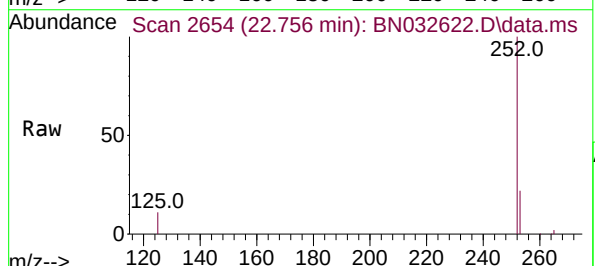
Tgt Ion:252 Resp: 375339

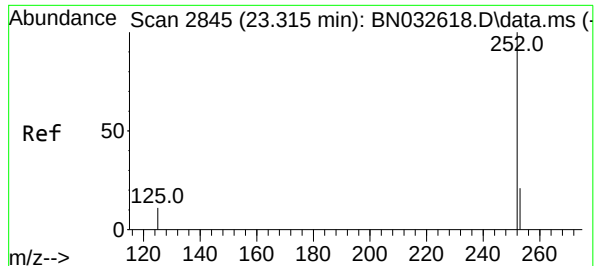
Ion Ratio Lower Upper

252 100

253 22.1 22.6 34.0#

125 11.0 16.2 24.4#





#39

Benzo(a)pyrene

Concen: 5.064 ng

RT: 23.282 min Scan# 21

Delta R.T. -0.032 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:252 Resp: 31536

Ion Ratio Lower Upper

252 100

253 22.0 25.8 38.8

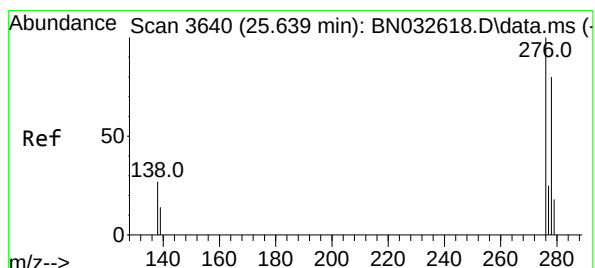
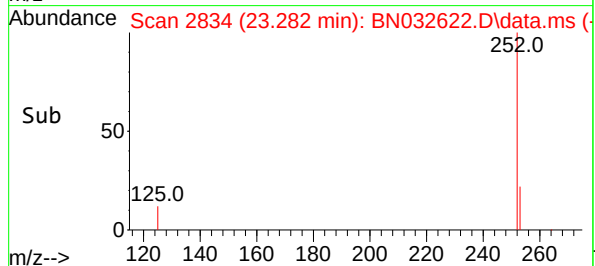
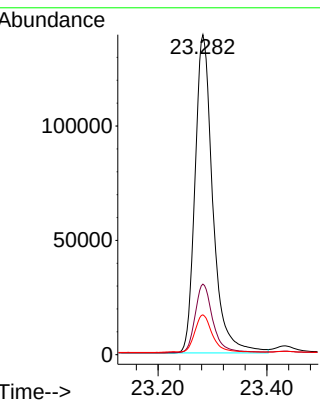
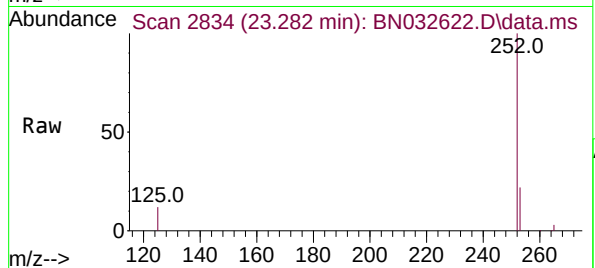
125 12.4 21.4 32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 4.931 ng

RT: 25.586 min Scan# 3622

Delta R.T. -0.053 min

Lab File: BN032622.D

Acq: 10 Jul 2024 19:32

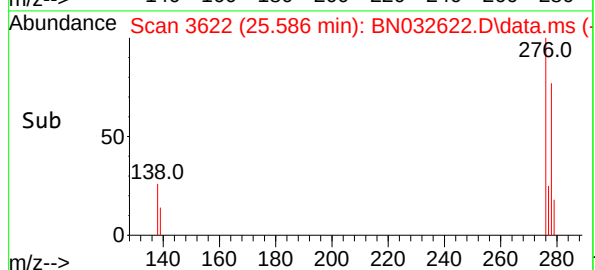
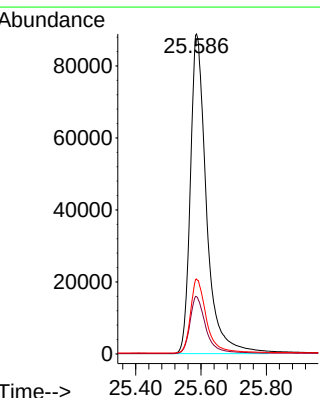
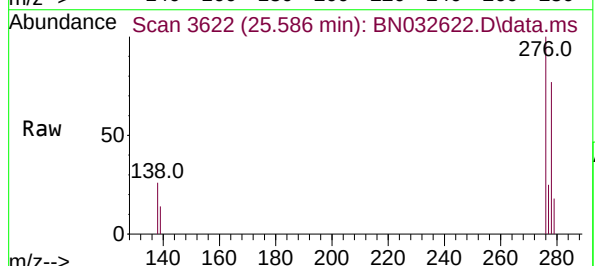
Tgt Ion:278 Resp: 304385

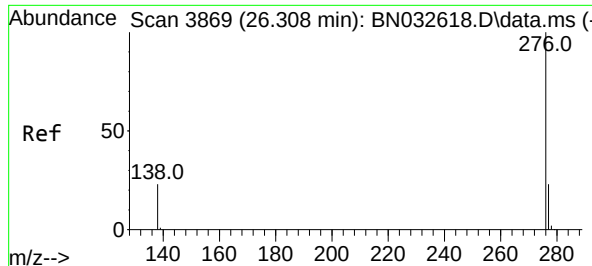
Ion Ratio Lower Upper

278 100

139 17.9 16.7 25.1

279 23.5 24.3 36.5





#41

Benzo(g,h,i)perylene

Concen: 4.686 ng

RT: 26.262 min Scan# 3853

Delta R.T. -0.047 min

Lab File: BN032622.D

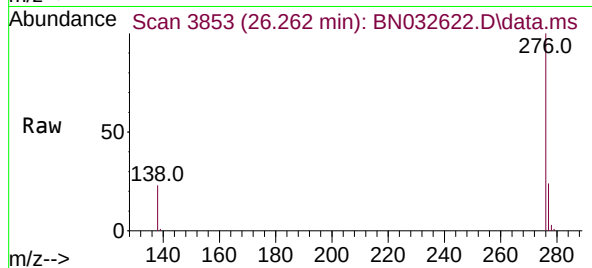
Acq: 10 Jul 2024 19:32

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:276 Resp: 32041

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

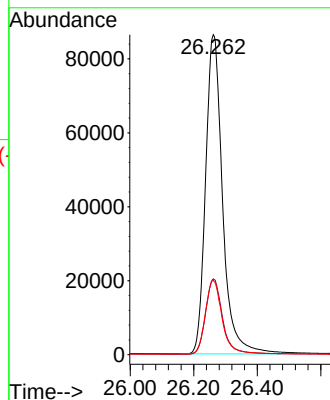
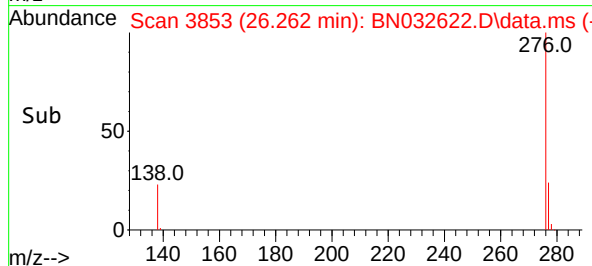
138 23.2 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032623.D
 Acq On : 10 Jul 2024 20:44
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

Quant Time: Jul 10 23:47:50 2024

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jul 10 23:45:48 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.574	152	4425	0.400	ng	0.00
7) Naphthalene-d8	10.357	136	13963	0.400	ng	0.00
13) Acenaphthene-d10	14.210	164	9406	0.400	ng	0.00
19) Phenanthrene-d10	16.979	188	20502	0.400	ng	0.00
29) Chrysene-d12	21.193	240	17938	0.400	ng	# 0.00
35) Perylene-d12	23.394	264	18072	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.198	112	4257	0.380	ng	0.00
5) Phenol-d6	6.808	99	5393	0.388	ng	0.01
8) Nitrobenzene-d5	8.788	82	3952	0.376	ng	0.01
11) 2-Methylnaphthalene-d10	11.964	152	8485	0.397	ng	0.00
14) 2,4,6-Tribromophenol	15.738	330	1428	0.355	ng	0.00
15) 2-Fluorobiphenyl	12.852	172	13887	0.397	ng	0.00
27) Fluoranthene-d10	19.021	212	21133	0.398	ng	0.00
31) Terphenyl-d14	19.630	244	14058	0.382	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	2178	0.397	ng	Qvalue 95
3) n-Nitrosodimethylamine	3.472	42	1759	0.380	ng	# 100
6) bis(2-Chloroethyl)ether	7.032	93	4684	0.403	ng	94
9) Naphthalene	10.400	128	15368	0.397	ng	100
10) Hexachlorobutadiene	10.645	225	3010	0.407	ng	# 99
12) 2-Methylnaphthalene	12.039	142	9814	0.388	ng	98
16) Acenaphthylene	13.932	152	13967	0.365	ng	100
17) Acenaphthene	14.274	154	10787	0.398	ng	100
18) Fluorene	15.279	166	14327	0.395	ng	100
20) 4,6-Dinitro-2-methylph...	15.472	198	674	0.444	ng	97
21) 4-Bromophenyl-phenylether	16.172	248	4677	0.388	ng	99
22) Hexachlorobenzene	16.272	284	5260	0.390	ng	100
23) Atrazine	16.458	200	3292	0.371	ng	97
24) Pentachlorophenol	16.669	266	1468	0.293	ng	99
25) Phenanthrene	17.016	178	21755	0.388	ng	100
26) Anthracene	17.128	178	16228	0.352	ng	99
28) Fluoranthene	19.054	202	26952	0.398	ng	100
30) Pyrene	19.416	202	27755	0.379	ng	99
32) Benzo(a)anthracene	21.175	228	20336	0.359	ng	99
33) Chrysene	21.229	228	28529	0.423	ng	100
34) Bis(2-ethylhexyl)phtha...	21.077	149	11763	0.375	ng	100
36) Indeno(1,2,3-cd)pyrene	25.613	276	27205	0.382	ng	100
37) Benzo(b)fluoranthene	22.730	252	23079	0.367	ng	97
38) Benzo(k)fluoranthene	22.777	252	27788m	0.386	ng	
39) Benzo(a)pyrene	23.306	252	21341	0.376	ng	95
40) Dibenzo(a,h)anthracene	25.624	278	21513	0.382	ng	97
41) Benzo(g,h,i)perylene	26.294	276	24178	0.388	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032623.D
Acq On : 10 Jul 2024 20:44
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

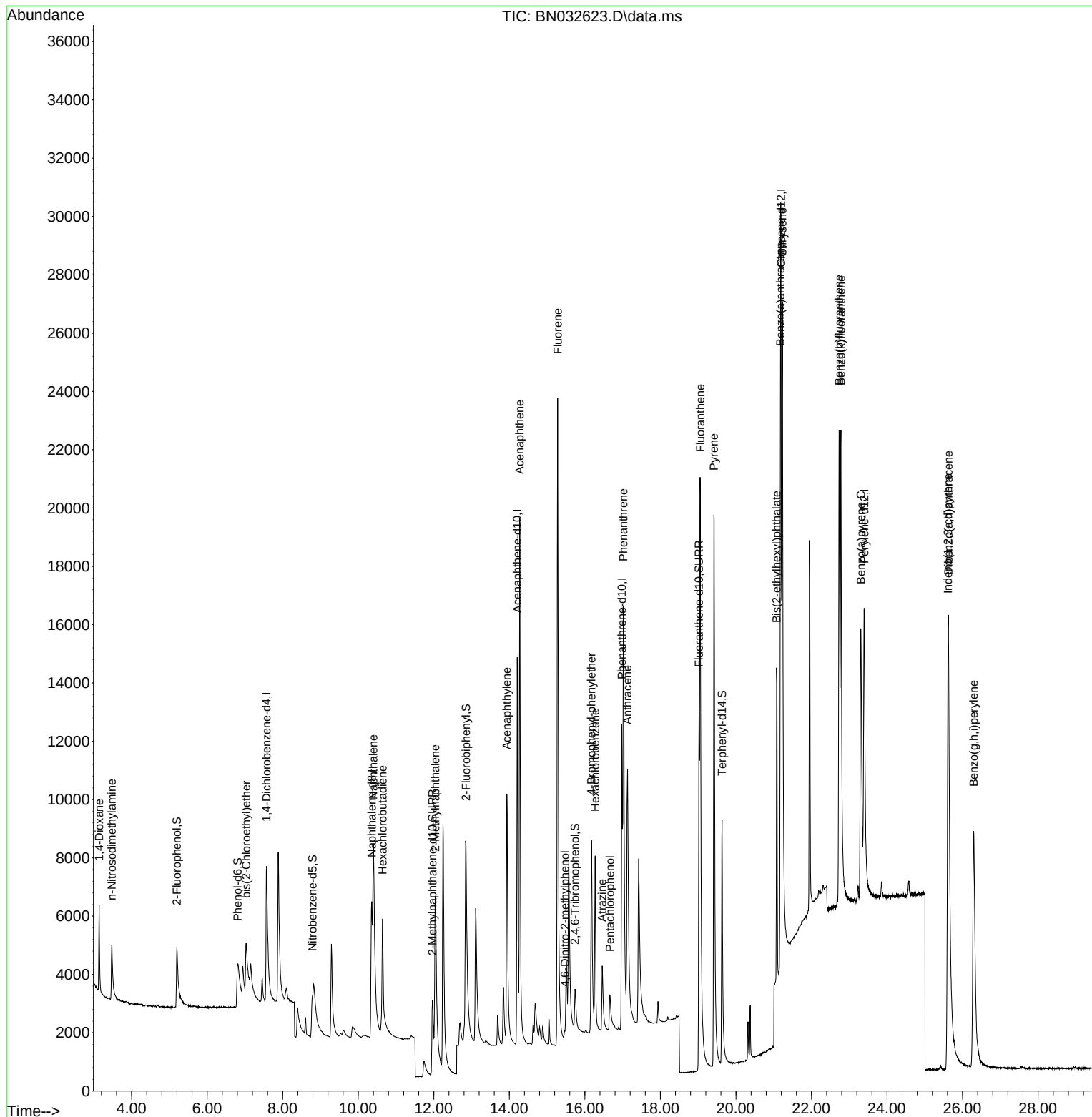
Manual Integrations

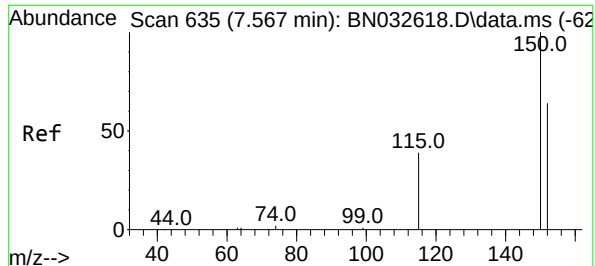
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024

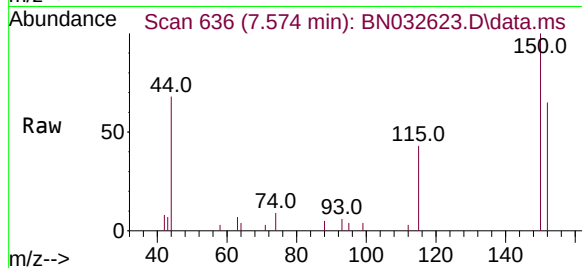
Quant Time: Jul 10 23:47:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:45:48 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.574 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

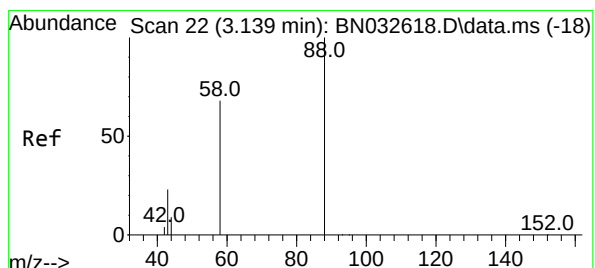
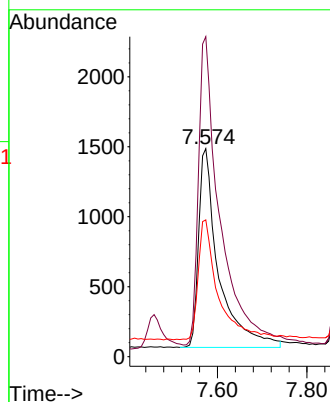
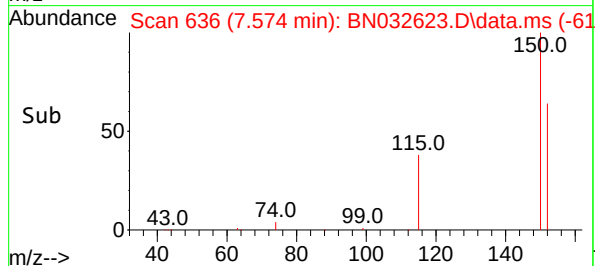
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



Tgt Ion: 152 Resp: 442
Ion Ratio Lower Upper
152 100
150 153.8 123.8 185.6
115 65.7 52.8 79.2

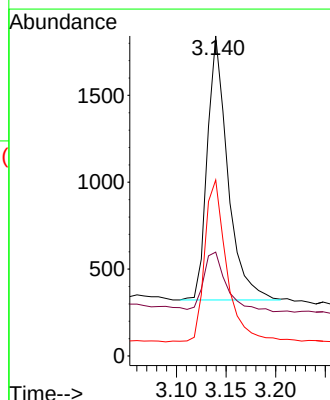
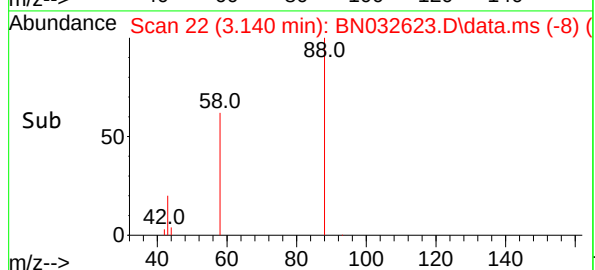
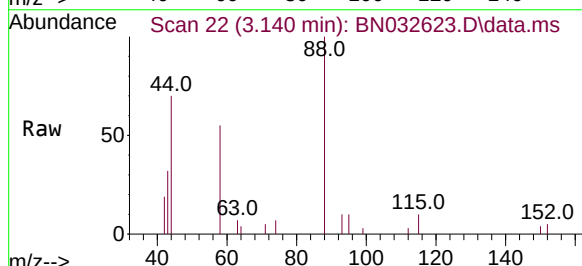
Manual Integrations
APPROVED

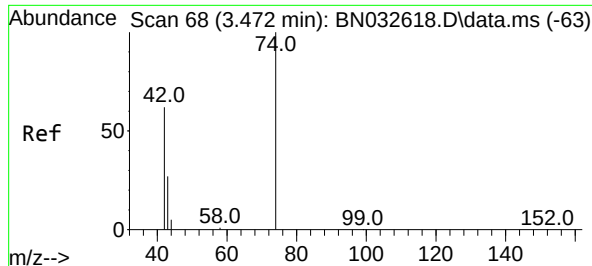
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#2
1,4-Dioxane
Concen: 0.397 ng
RT: 3.140 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion: 88 Resp: 2178
Ion Ratio Lower Upper
88 100
43 25.1 18.4 27.6
58 66.0 49.2 73.8





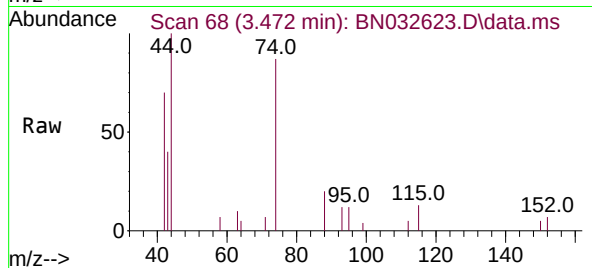
#3
n-Nitrosodimethylamine
Concen: 0.380 ng
RT: 3.472 min Scan# 68
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

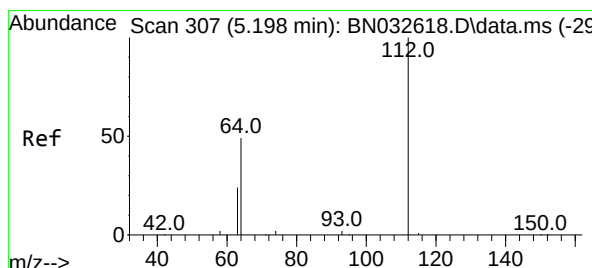
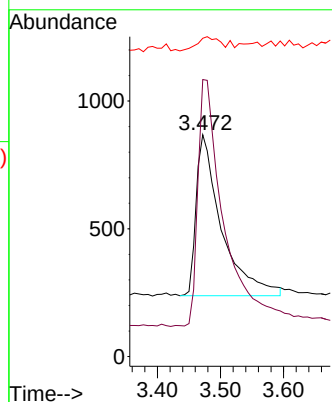
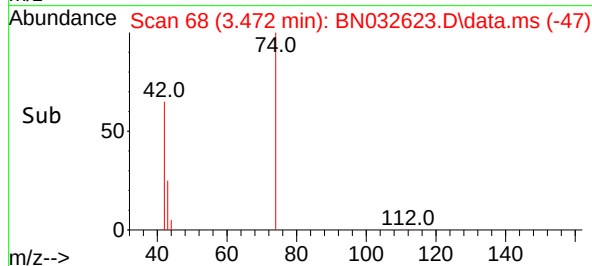


Tgt Ion: 42 Resp: 1759
Ion Ratio Lower Upper
42 100
74 158.7 126.9 190.3
44 7.7 4.8 7.2

Manual Integrations
APPROVED

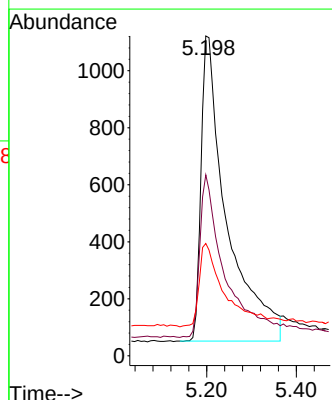
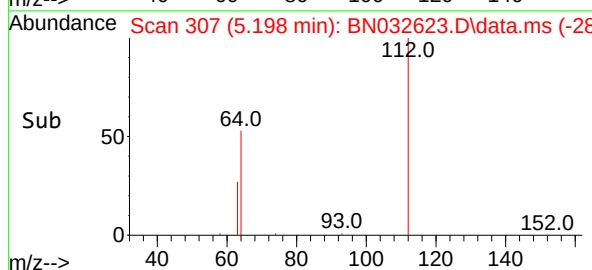
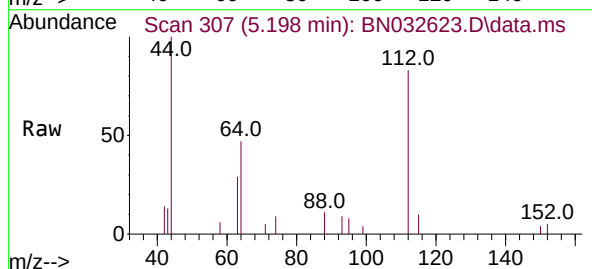
Reviewed By :Yogesh Patel 07/11/2024

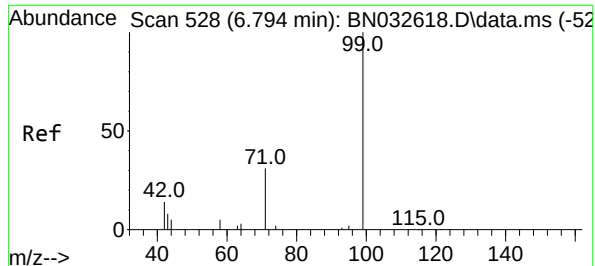
Supervised By :mohammad ahmed 07/11/2024



#4
2-Fluorophenol
Concen: 0.380 ng
RT: 5.198 min Scan# 307
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:112 Resp: 4257
Ion Ratio Lower Upper
112 100
64 52.0 40.2 60.4
63 27.2 22.2 33.4





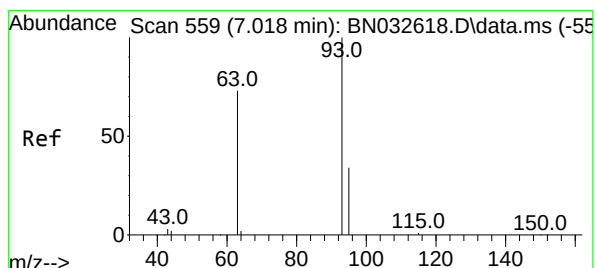
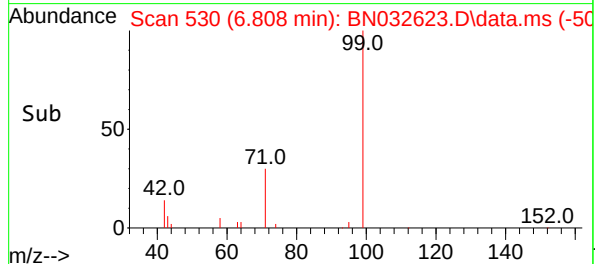
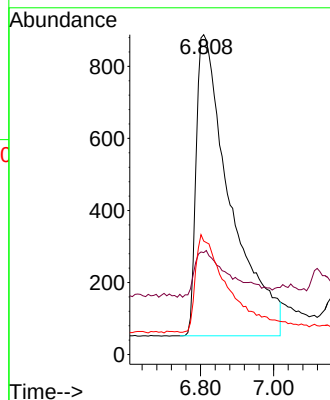
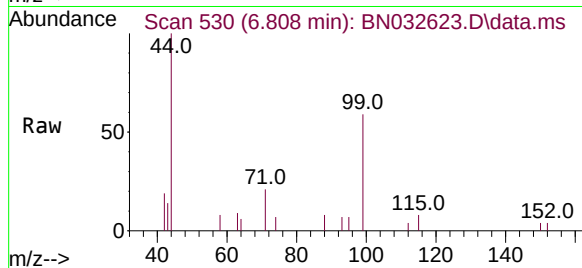
#5
Phenol-d6
Concen: 0.388 ng
RT: 6.808 min Scan# 51
Delta R.T. 0.015 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion: 99 Resp: 539
Ion Ratio Lower Upper
99 100
42 16.6 10.5 15.7
71 31.5 22.3 33.5

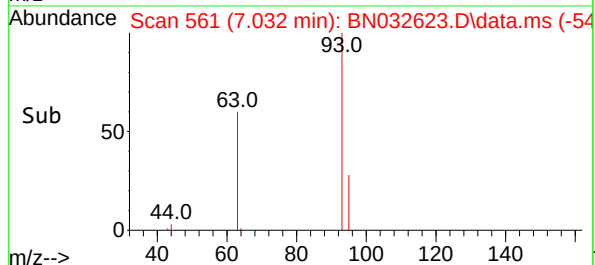
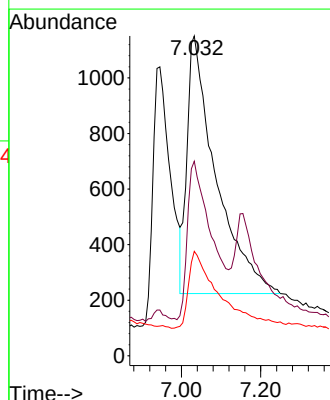
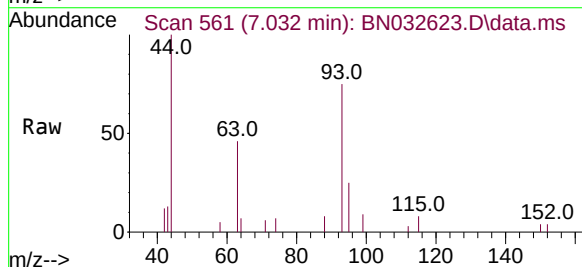
Manual Integrations
APPROVED

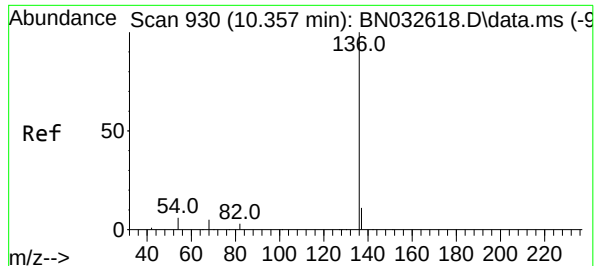
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.032 min Scan# 561
Delta R.T. 0.015 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion: 93 Resp: 4684
Ion Ratio Lower Upper
93 100
63 51.7 46.4 69.6
95 32.0 25.5 38.3





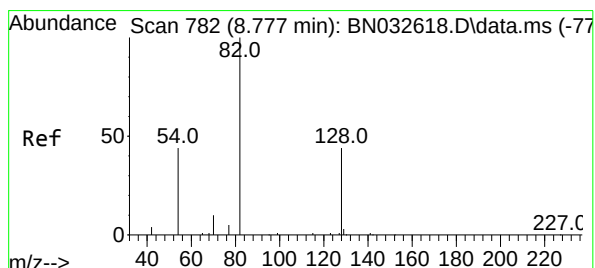
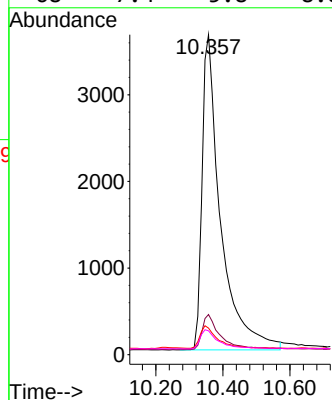
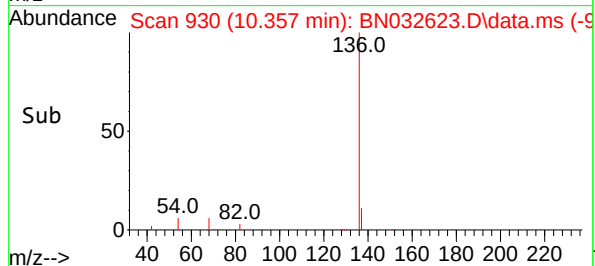
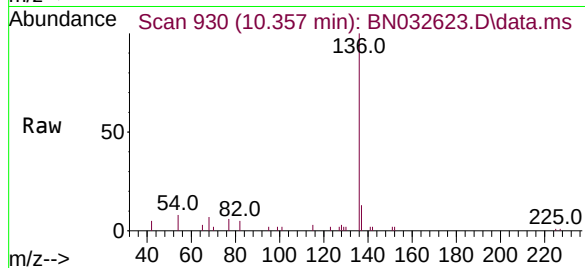
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.357 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:	136	Resp:	1396
Ion Ratio	Lower	Upper	
136	100		
137	12.5	9.9	14.9
54	8.3	6.5	9.7
68	7.4	5.8	8.8

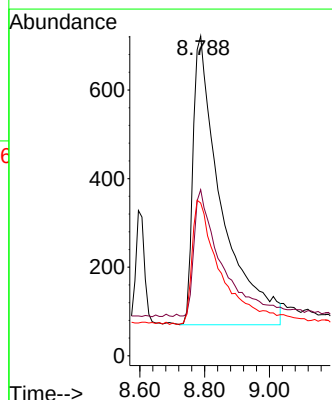
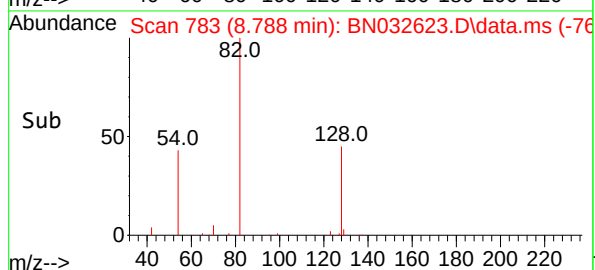
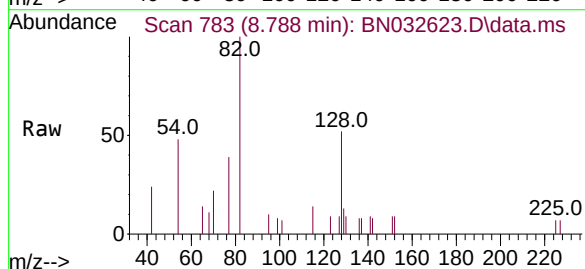
Manual Integrations
APPROVED

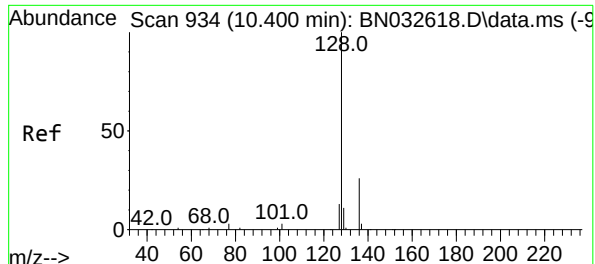
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#8
Nitrobenzene-d5
Concen: 0.376 ng
RT: 8.788 min Scan# 783
Delta R.T. 0.011 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:	82	Resp:	3952
Ion Ratio	Lower	Upper	
82	100		
128	51.9	41.7	62.5
54	47.8	39.5	59.3





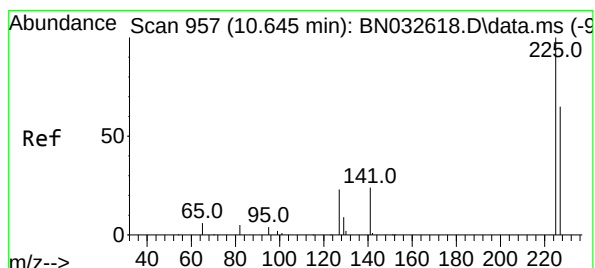
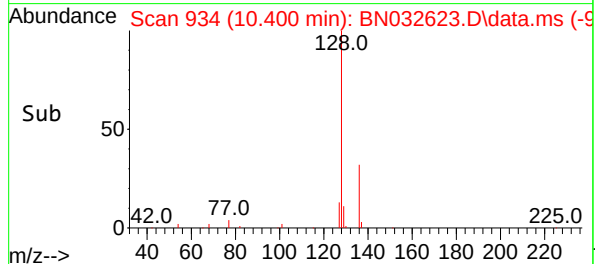
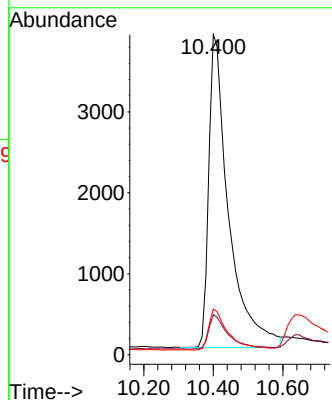
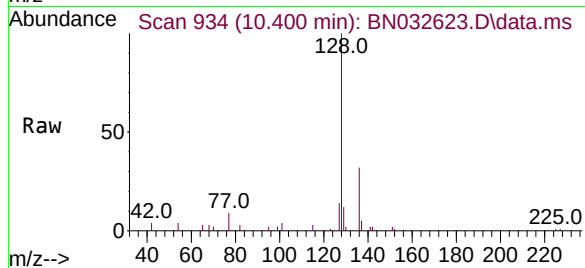
#9
Naphthalene
Concen: 0.397 ng
RT: 10.400 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:128 Resp: 1536
Ion Ratio Lower Upper
128 100
129 12.5 9.8 14.8
127 14.3 11.5 17.3

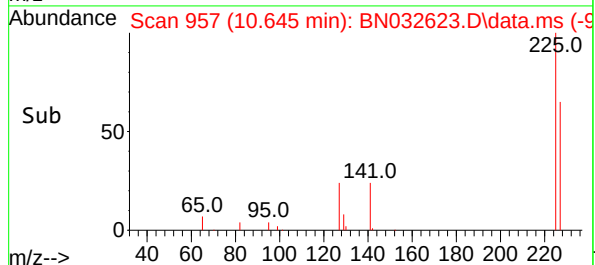
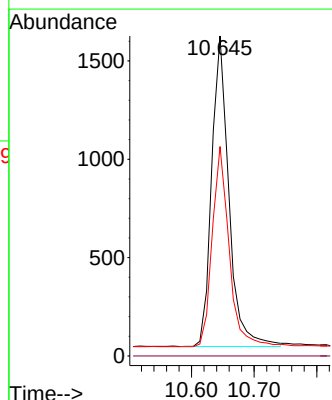
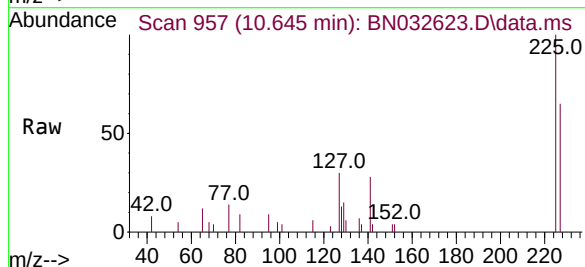
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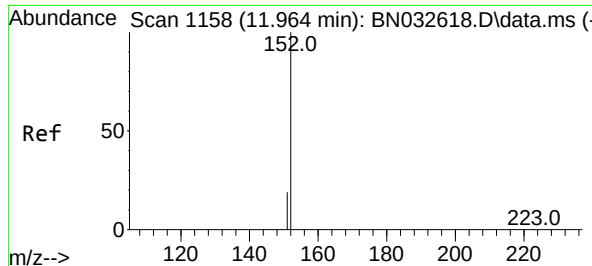
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#10
Hexachlorobutadiene
Concen: 0.407 ng
RT: 10.645 min Scan# 957
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

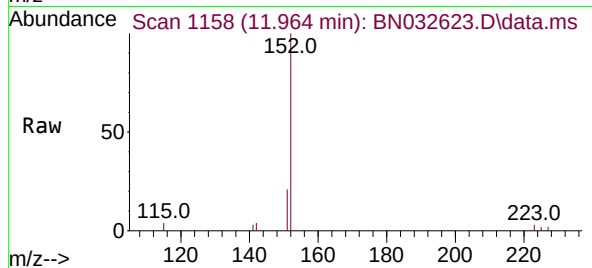
Tgt Ion:225 Resp: 3010
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 11.964 min Scan# 1158
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

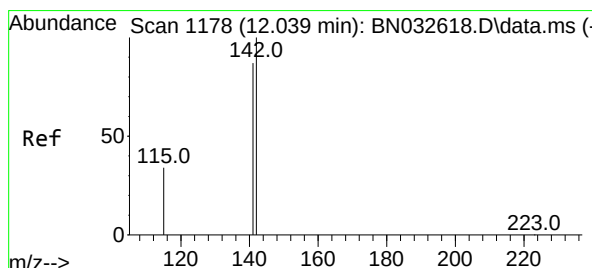
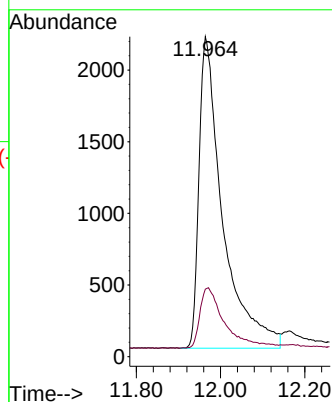
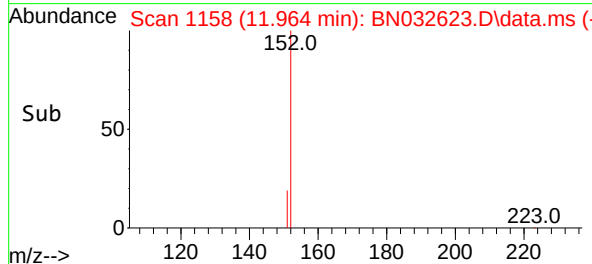
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



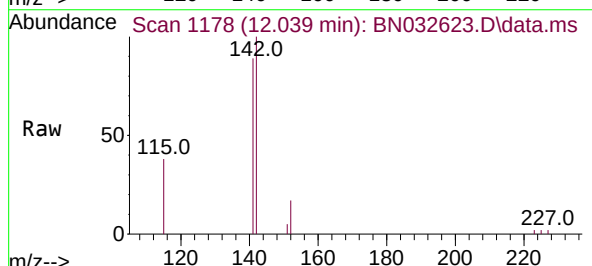
Tgt Ion:152 Resp: 848
Ion Ratio Lower Upper
152 100
151 19.6 16.2 24.2

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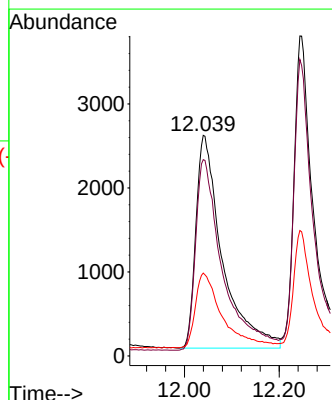
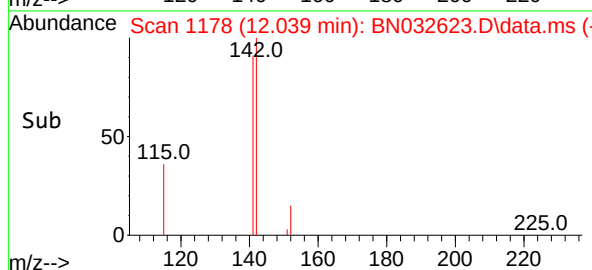
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

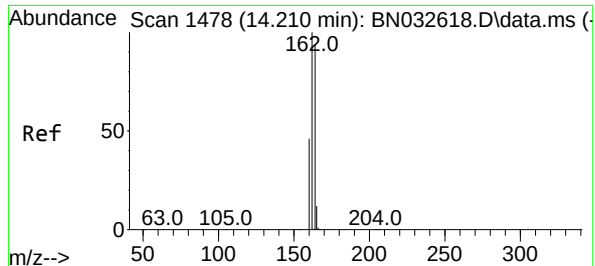


#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.039 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44



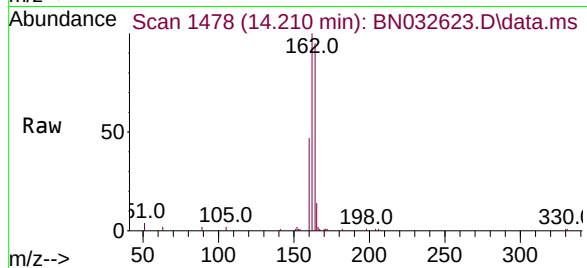
Tgt Ion:142 Resp: 9814
Ion Ratio Lower Upper
142 100
141 89.0 69.3 103.9
115 37.6 29.5 44.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.210 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

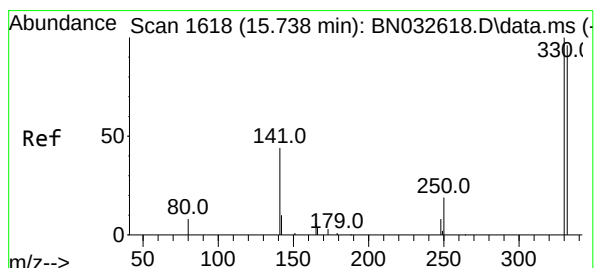
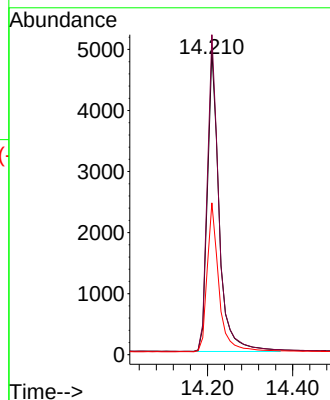
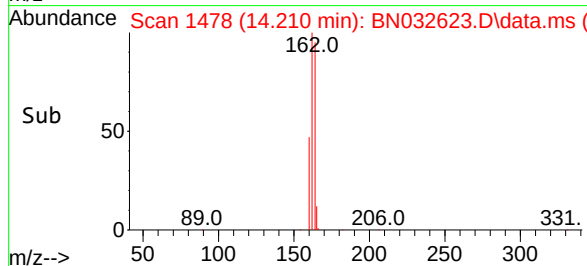
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



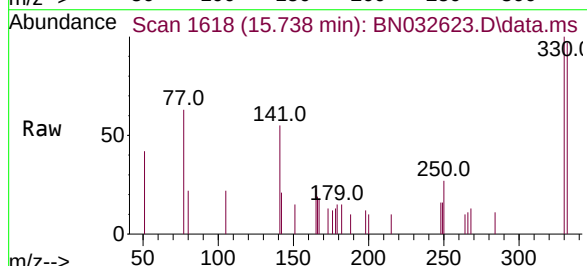
Tgt Ion:164 Resp: 9400
Ion Ratio Lower Upper
164 100
162 105.3 85.0 127.4
160 50.0 39.4 59.2

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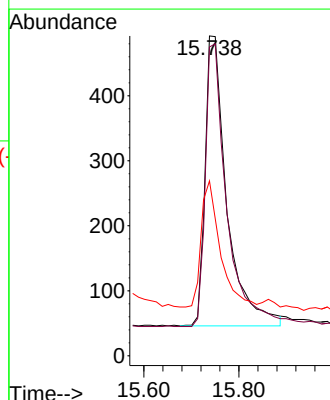
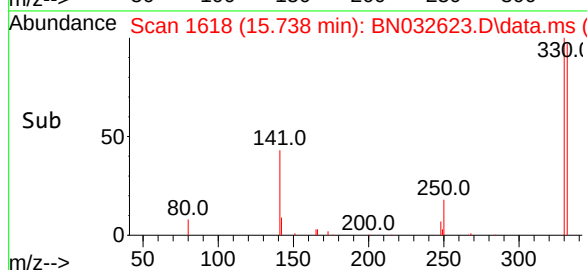
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024

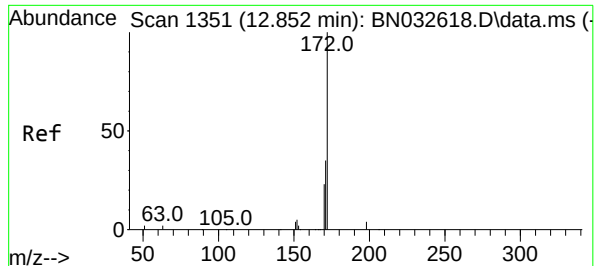


#14
2,4,6-Tribromophenol
Concen: 0.355 ng
RT: 15.738 min Scan# 1618
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44



Tgt Ion:330 Resp: 1428
Ion Ratio Lower Upper
330 100
332 95.7 77.8 116.8
141 37.8 34.2 51.2





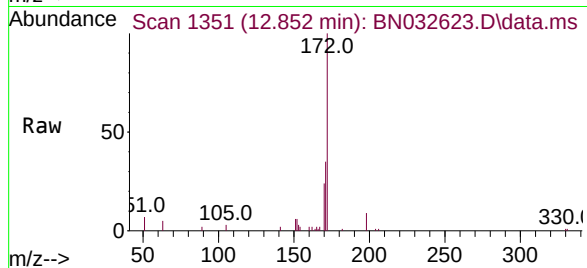
#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.852 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

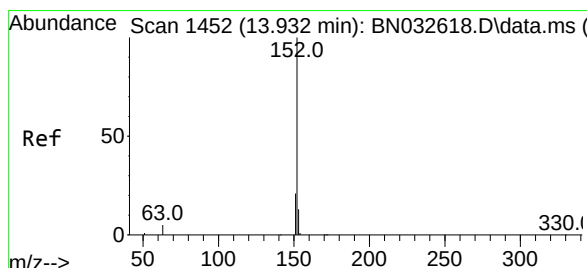
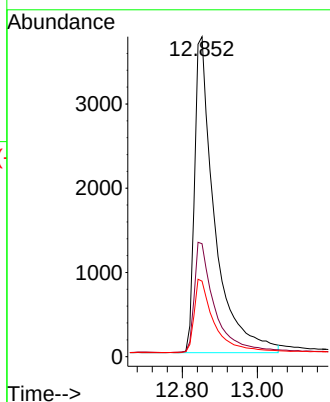
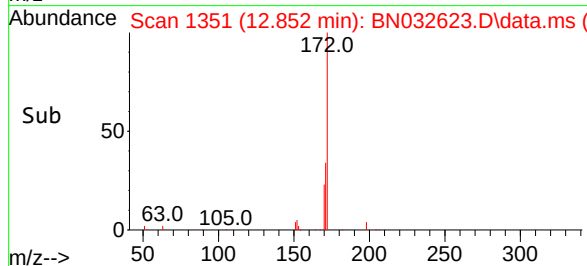


Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.6	19.0	28.6

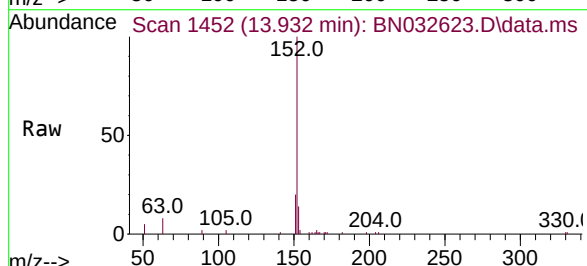
Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

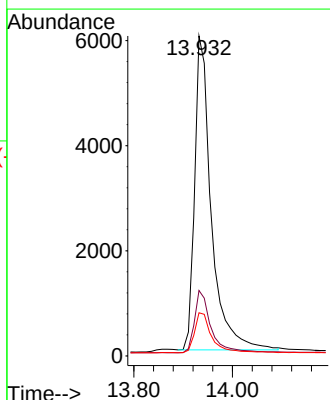
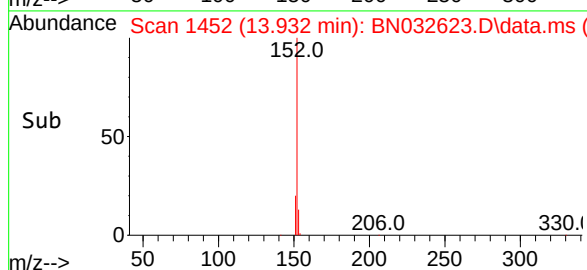
Supervised By :mohammad ahmed 07/11/2024

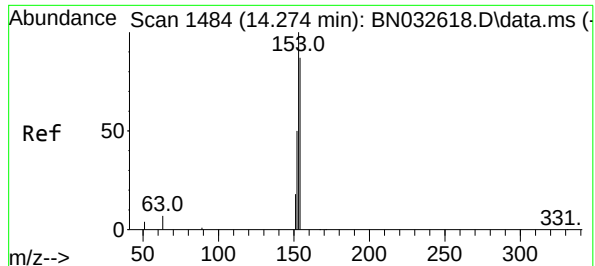


#16
Acenaphthylene
Concen: 0.365 ng
RT: 13.932 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44



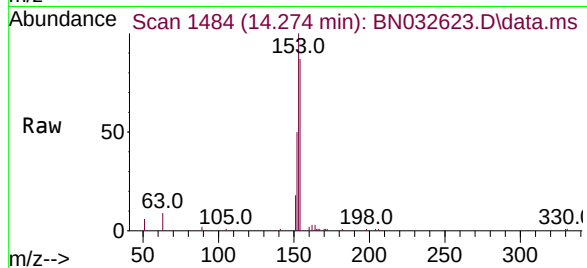
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	13.1	10.6	15.8





#17
Acenaphthene
Concen: 0.398 ng
RT: 14.274 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

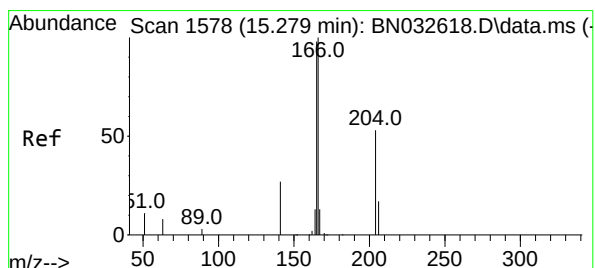
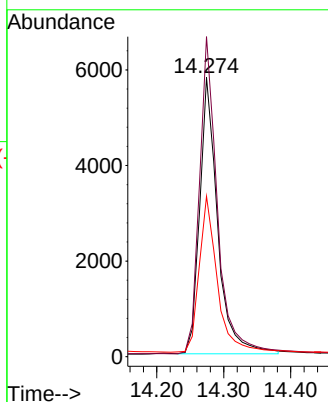
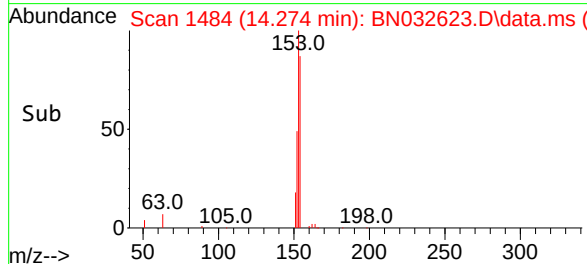
Instrument :
BNA_N
ClientSampleId :
ICVBN071124



Tgt Ion:154 Resp: 1078
Ion Ratio Lower Upper
154 100
153 114.7 91.8 137.8
152 56.6 45.2 67.8

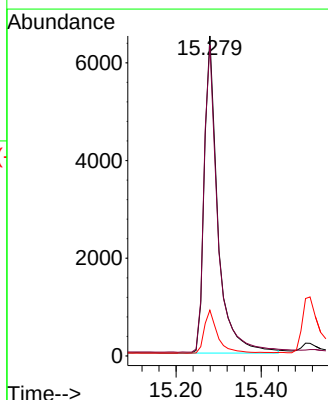
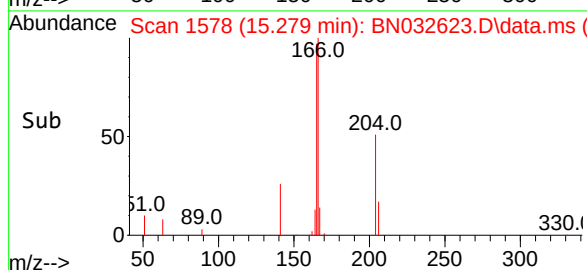
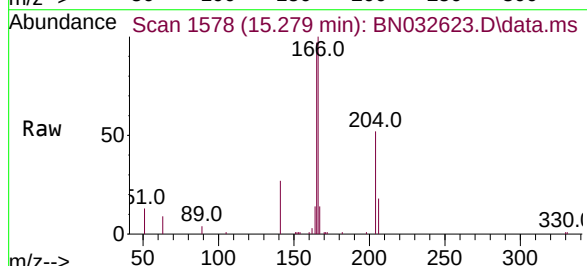
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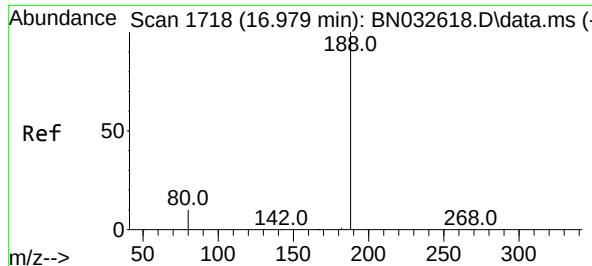
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#18
Fluorene
Concen: 0.395 ng
RT: 15.279 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:166 Resp: 14327
Ion Ratio Lower Upper
166 100
165 97.9 78.0 117.0
167 13.6 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.979 min Scan# 1718

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

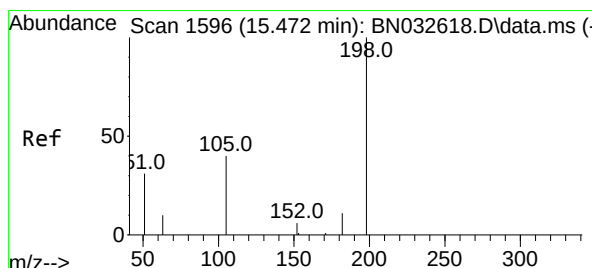
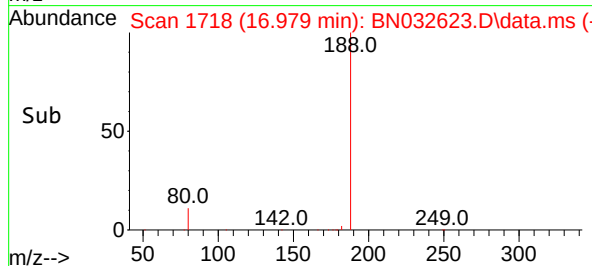
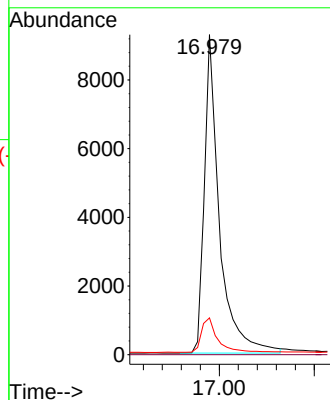
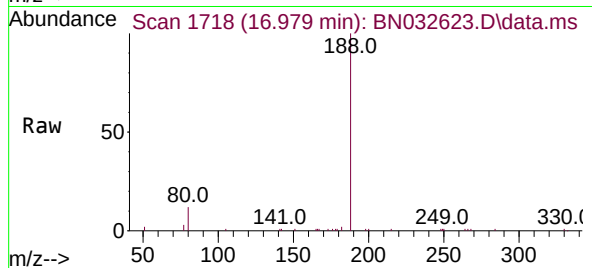
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Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	8.8	13.2

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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.444 ng

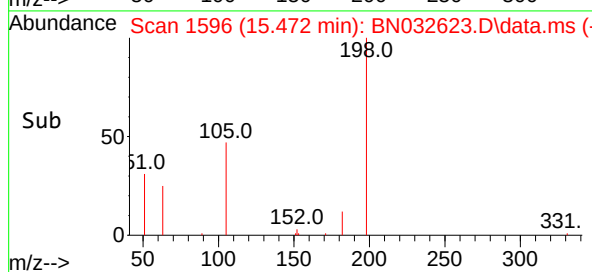
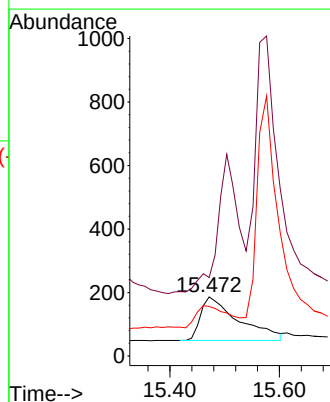
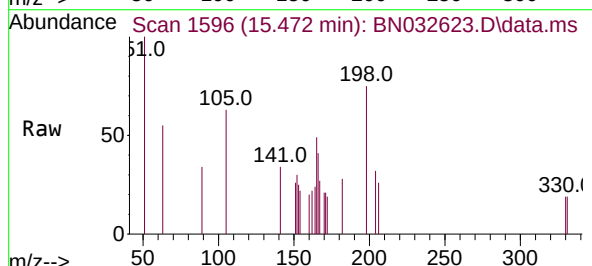
RT: 15.472 min Scan# 1596

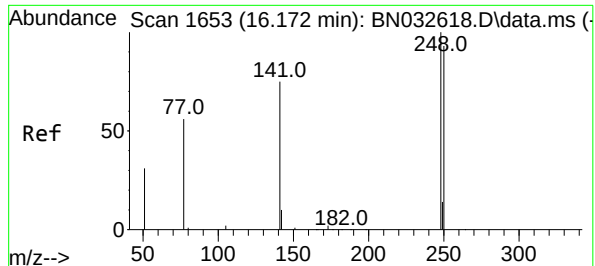
Delta R.T. -0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
198	100		
51	132.8	105.7	158.5
105	83.9	63.0	94.6





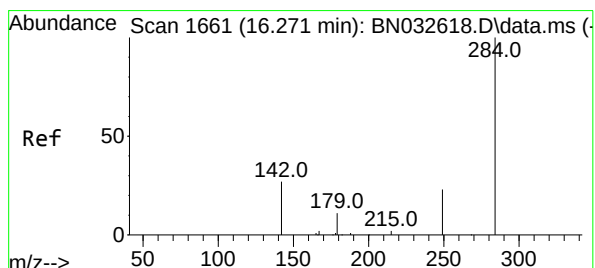
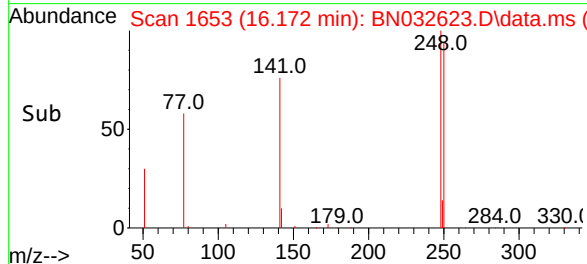
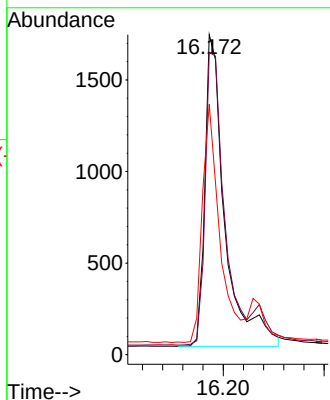
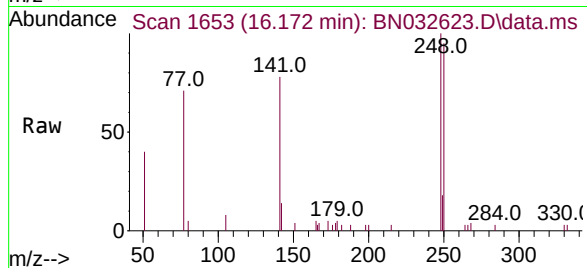
#21
4-Bromophenyl-phenylether
Concen: 0.388 ng
RT: 16.172 min Scan# 1653
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:248 Resp: 467
Ion Ratio Lower Upper
248 100
250 94.5 75.1 112.7
141 78.2 62.0 93.0

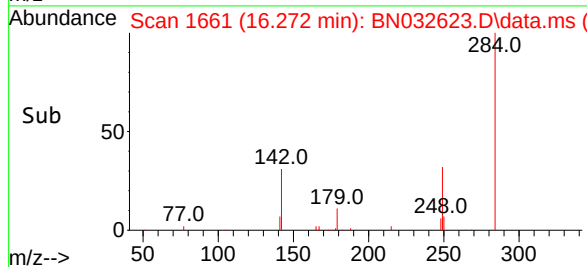
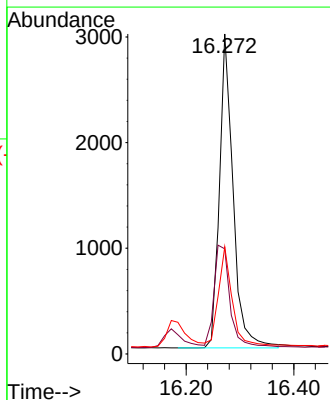
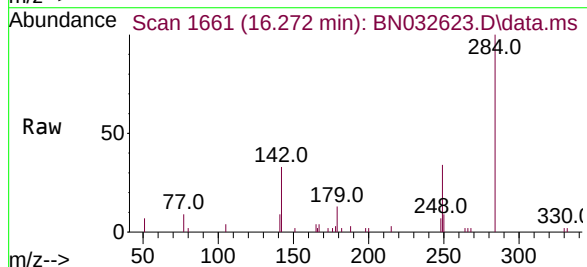
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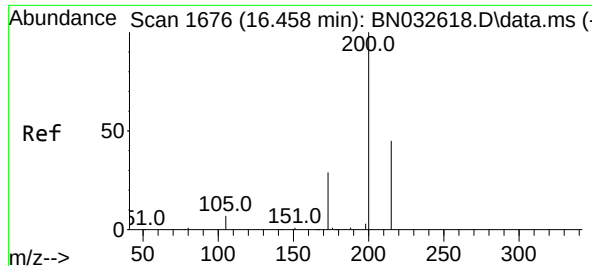
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.272 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:284 Resp: 5260
Ion Ratio Lower Upper
284 100
142 36.8 29.4 44.0
249 30.5 24.6 36.8





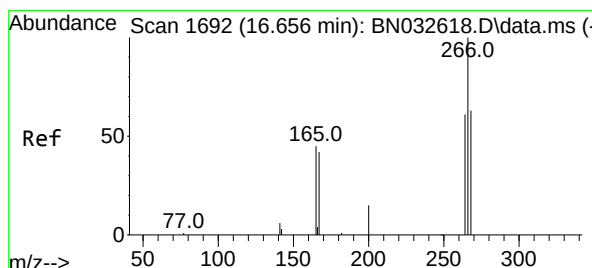
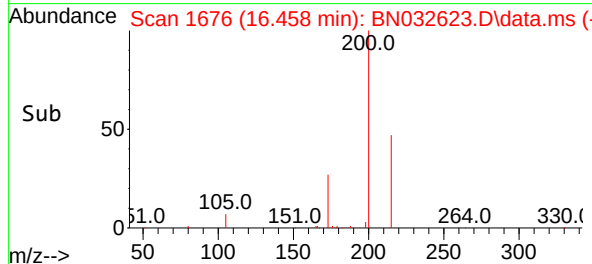
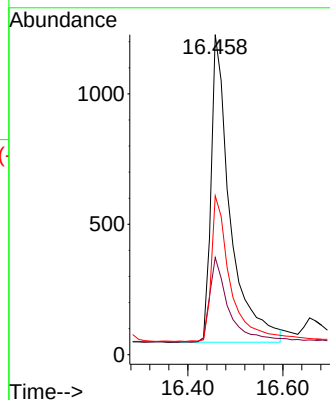
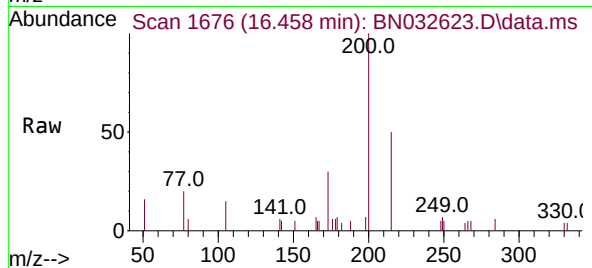
#23
Atrazine
Concen: 0.371 ng
RT: 16.458 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:200 Resp: 329
Ion Ratio Lower Upper
200 100
173 30.3 25.4 38.2
215 49.6 38.2 57.2

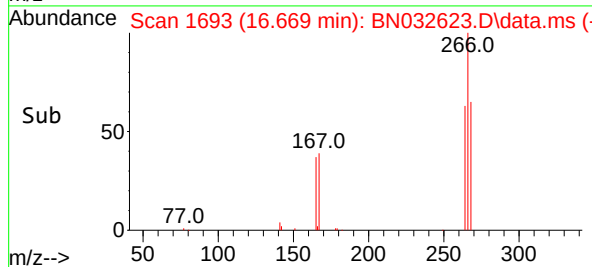
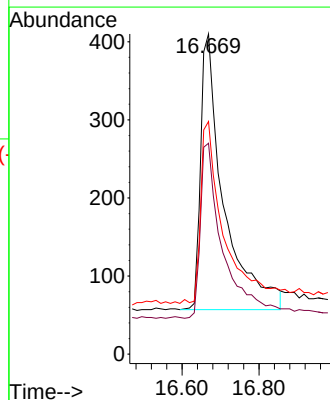
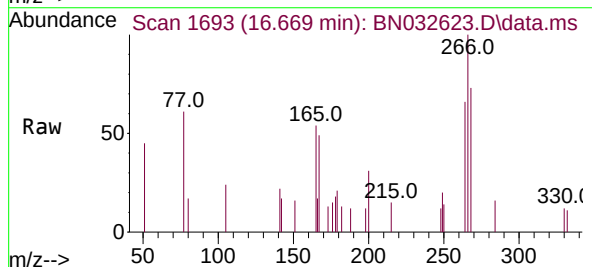
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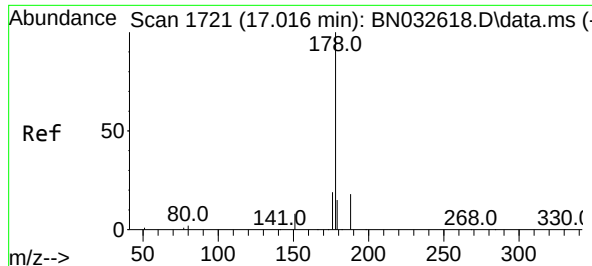
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#24
Pentachlorophenol
Concen: 0.293 ng
RT: 16.669 min Scan# 1693
Delta R.T. 0.013 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:266 Resp: 1468
Ion Ratio Lower Upper
266 100
264 63.4 50.2 75.2
268 67.0 52.8 79.2





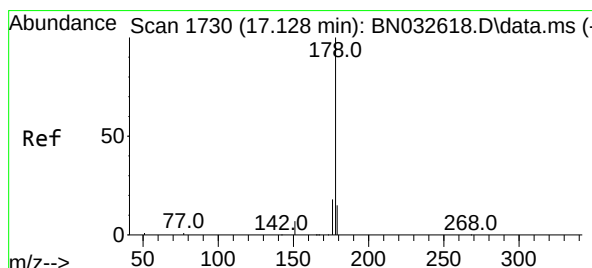
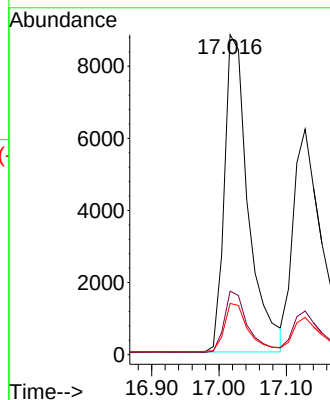
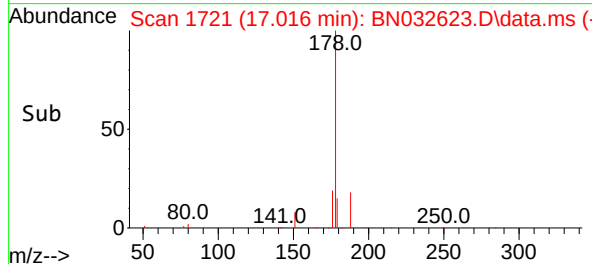
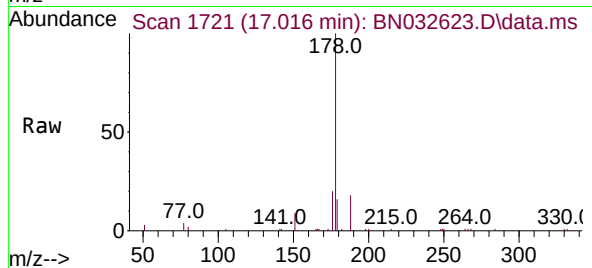
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.016 min Scan# 1721
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Tgt Ion:178 Resp: 2175
Ion Ratio Lower Upper
178 100
176 19.0 15.1 22.7
179 15.3 12.2 18.4

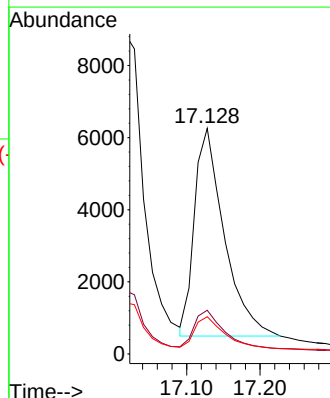
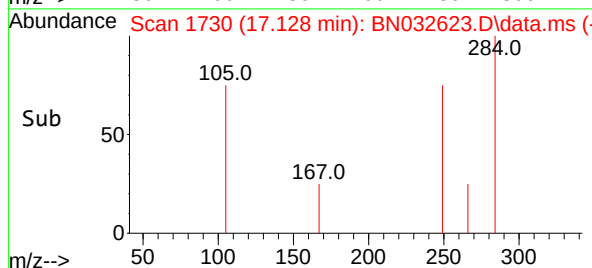
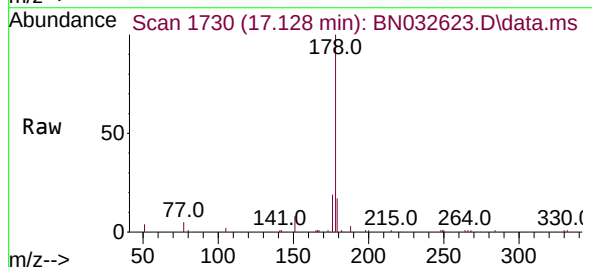
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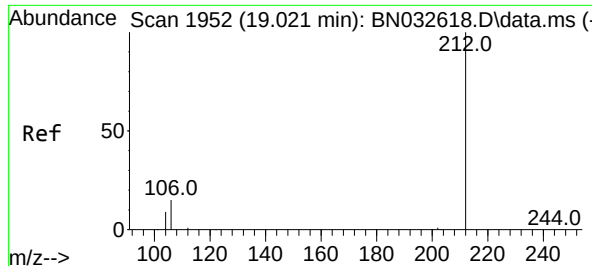
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#26
Anthracene
Concen: 0.352 ng
RT: 17.128 min Scan# 1730
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion:178 Resp: 16228
Ion Ratio Lower Upper
178 100
176 18.3 14.8 22.2
179 15.2 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.398 ng

RT: 19.021 min Scan# 1952

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

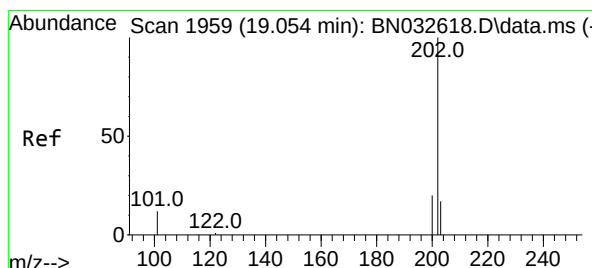
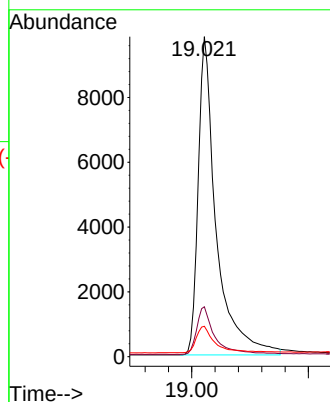
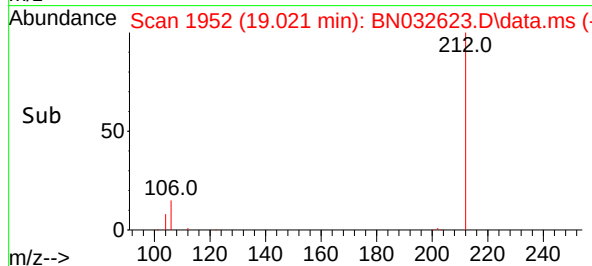
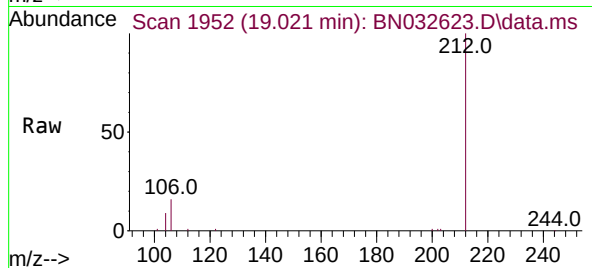
ICVBN071124

Tgt Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.9	17.9
104	8.7	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#28

Fluoranthene

Concen: 0.398 ng

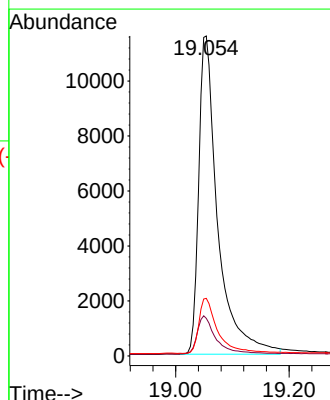
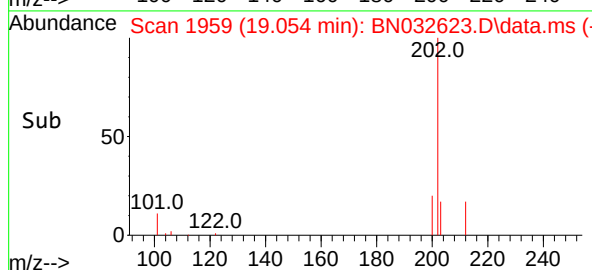
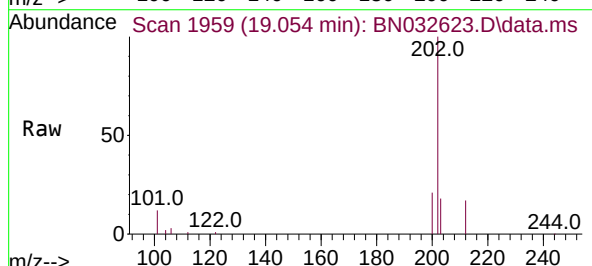
RT: 19.054 min Scan# 1959

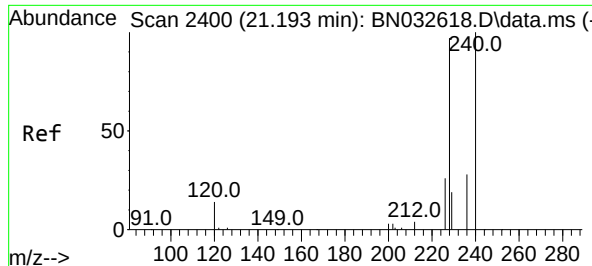
Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.6	14.4
203	17.3	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.193 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

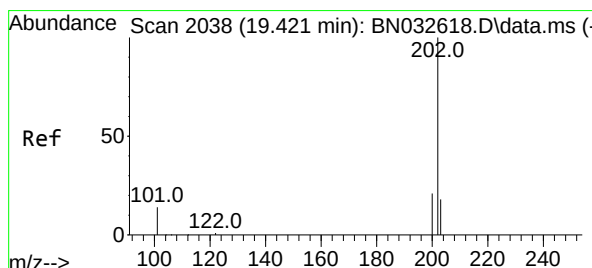
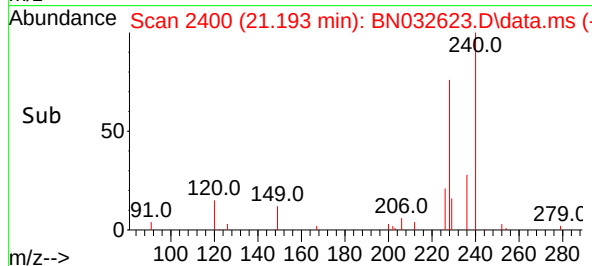
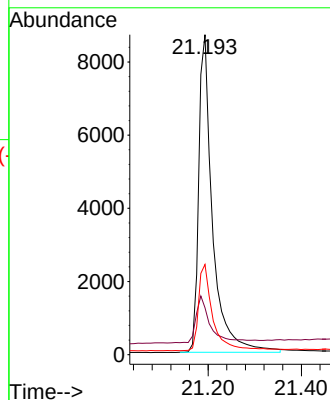
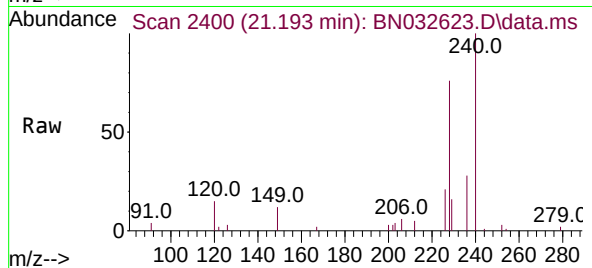
ICVBN071124

Tgt Ion:240	Resp:	17938
Ion Ratio	Lower	Upper
240	100	
120	14.6	14.8 22.2
236	28.2	23.3 34.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#30

Pyrene

Concen: 0.379 ng

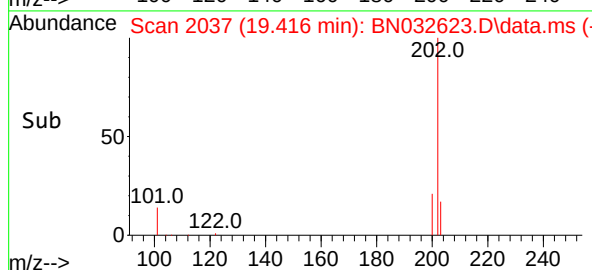
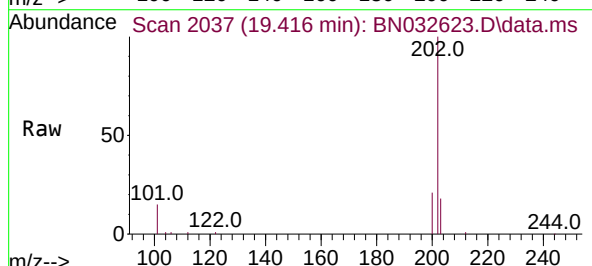
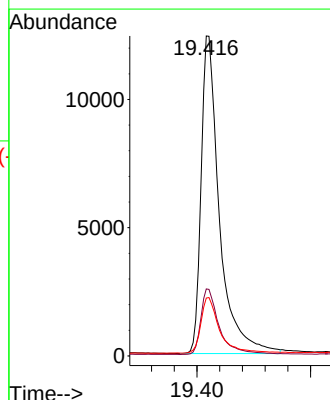
RT: 19.416 min Scan# 2037

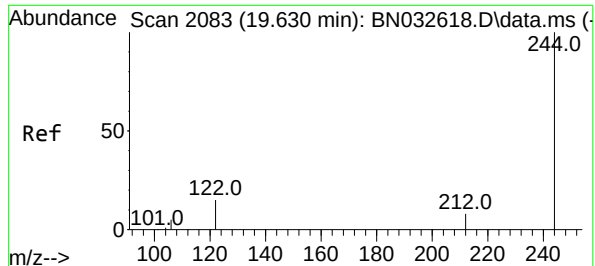
Delta R.T. -0.005 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:202	Resp:	27755
Ion Ratio	Lower	Upper
202	100	
200	20.6	16.6 25.0
203	18.0	14.8 22.2





#31
Terphenyl-d14
Concen: 0.382 ng
RT: 19.630 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

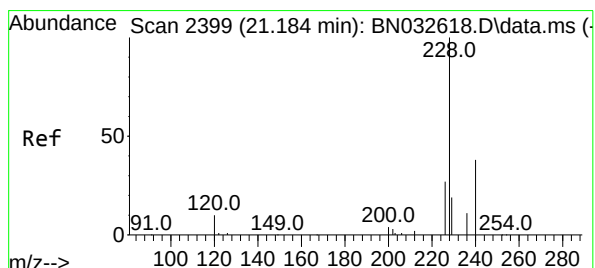
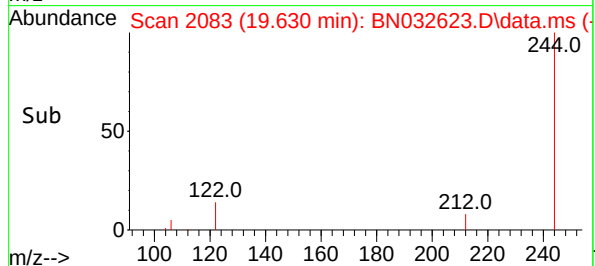
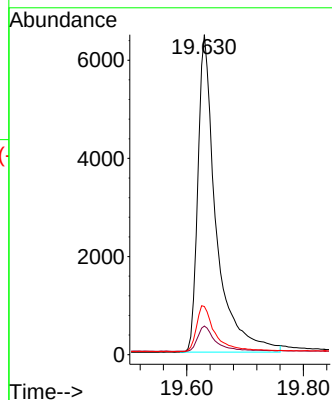
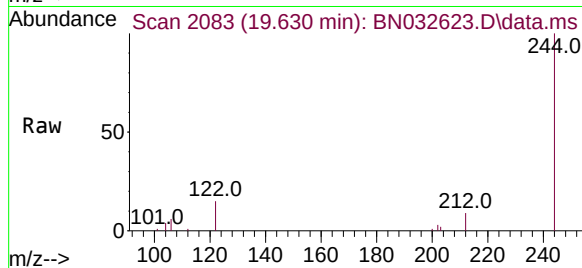
ClientSampleId :

ICVBN071124

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.5	11.3
122	15.0	12.6	19.0

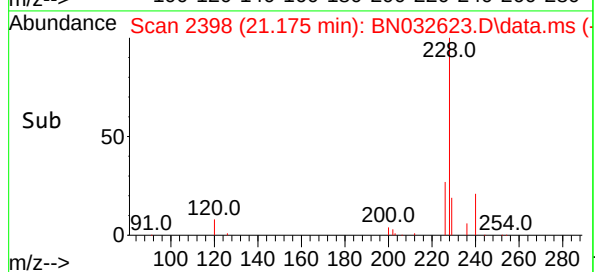
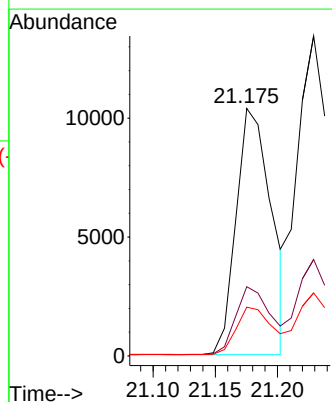
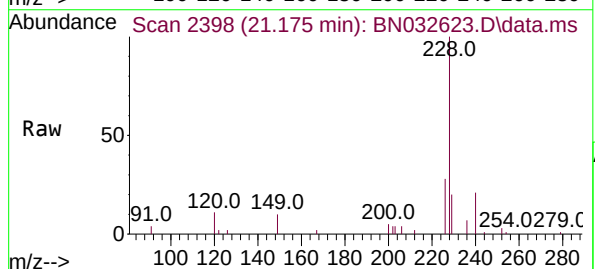
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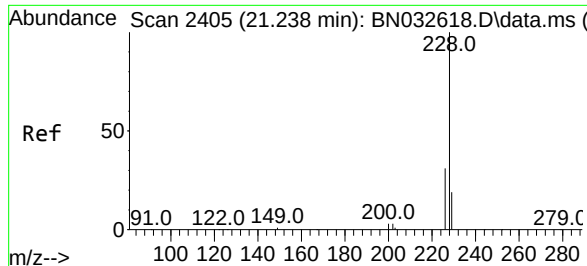
Reviewed By :Yogesh Patel 07/11/2024
Supervised By :mohammad ahmed 07/11/2024



#32
Benzo(a)anthracene
Concen: 0.359 ng
RT: 21.175 min Scan# 2398
Delta R.T. -0.009 min
Lab File: BN032623.D
Acq: 10 Jul 2024 20:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	21.8	32.6
229	19.7	16.0	24.0





#33

Chrysene

Concen: 0.423 ng

RT: 21.229 min Scan# 2404

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

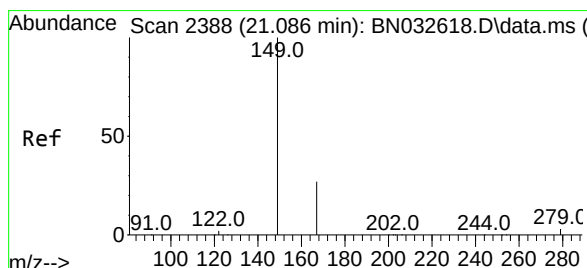
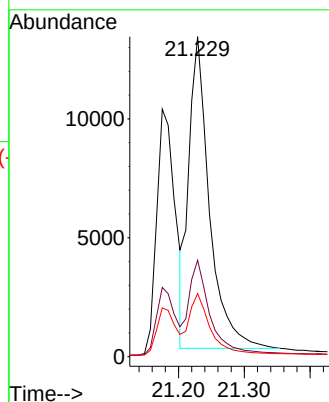
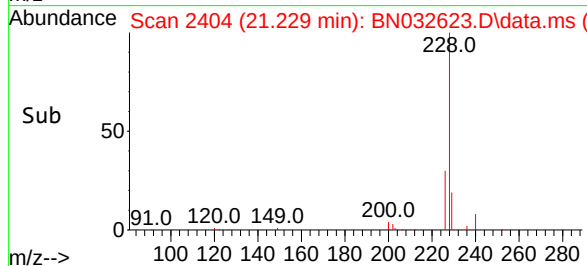
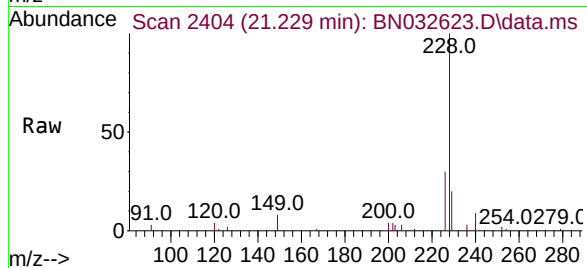
ICVBN071124

Tgt Ion:	228	Resp:	2852
Ion Ratio	Lower	Upper	
228	100		
226	30.2	24.2	36.2
229	19.7	16.0	24.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.375 ng

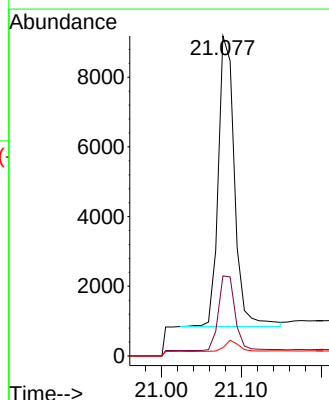
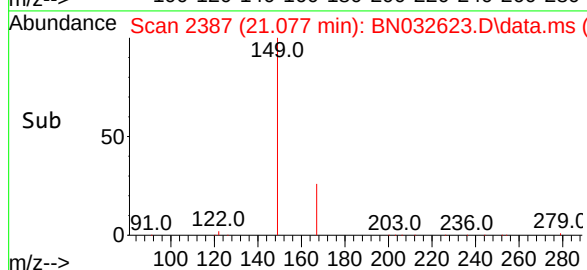
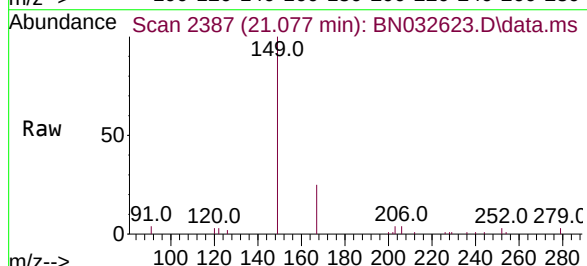
RT: 21.077 min Scan# 2387

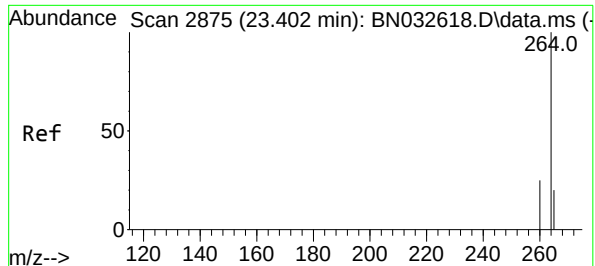
Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	149	Resp:	11763
Ion Ratio	Lower	Upper	
149	100		
167	26.7	21.4	32.2
279	3.4	2.8	4.2





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.394 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN032623.D

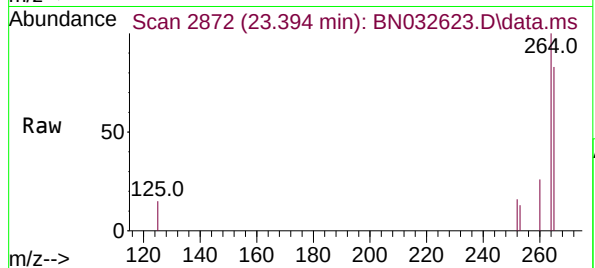
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124



Tgt Ion:264 Resp: 1807

Ion Ratio Lower Upper

264 100

260 26.0 20.9 31.3

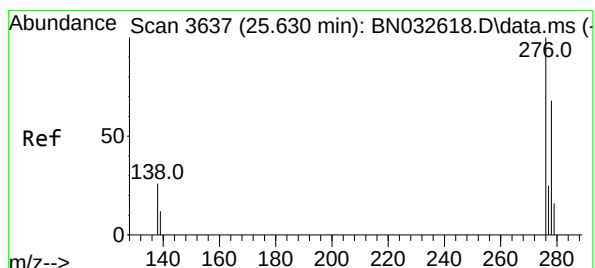
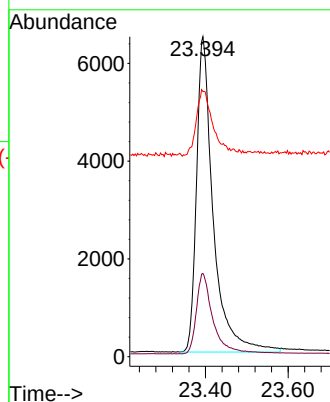
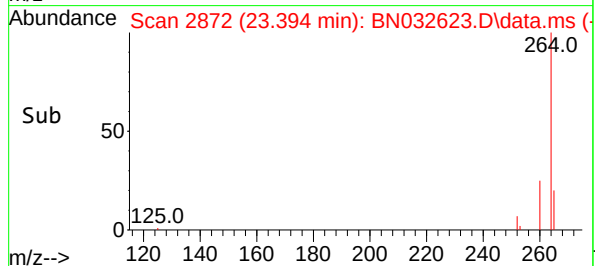
265 82.8 85.4 128.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.613 min Scan# 3631

Delta R.T. -0.017 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

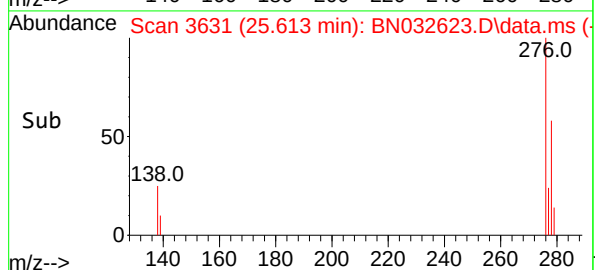
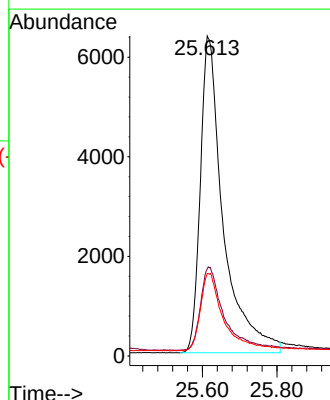
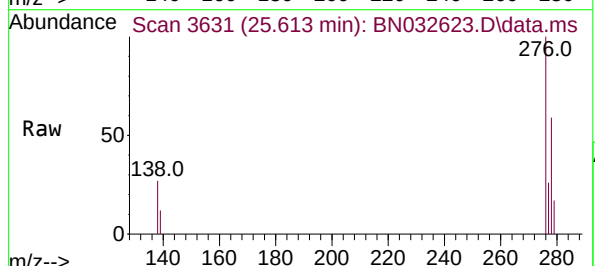
Tgt Ion:276 Resp: 27205

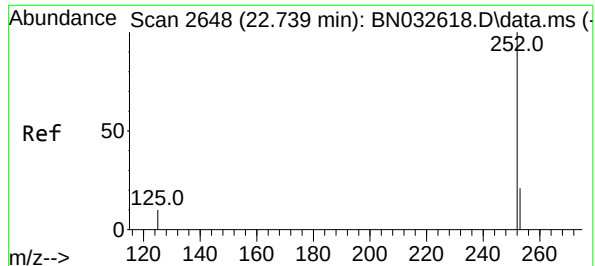
Ion Ratio Lower Upper

276 100

138 26.4 21.0 31.4

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.367 ng

RT: 22.730 min Scan# 2645

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124

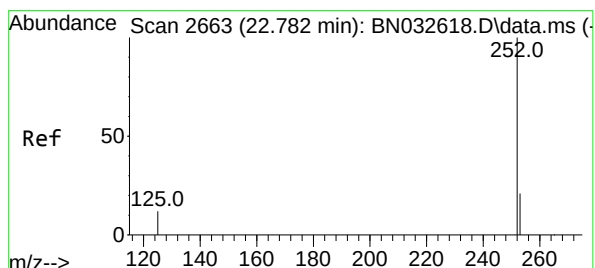
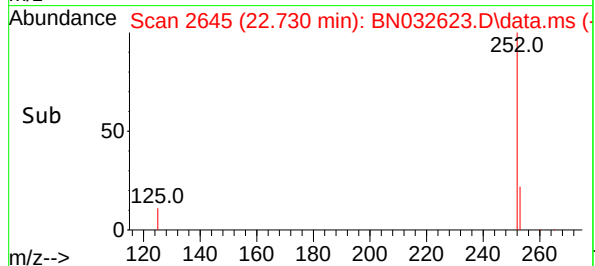
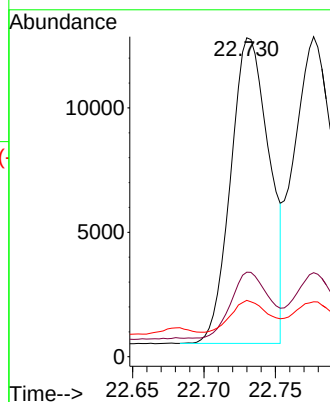
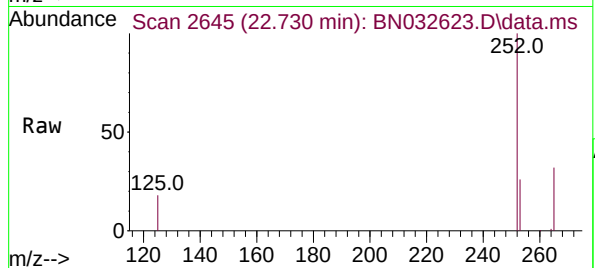
Tgt Ion:252	Resp:	23079
Ion Ratio	Lower	Upper
252	100	
253	26.5	22.3 33.5
125	17.7	15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#38

Benzo(k)fluoranthene

Concen: 0.386 ng m

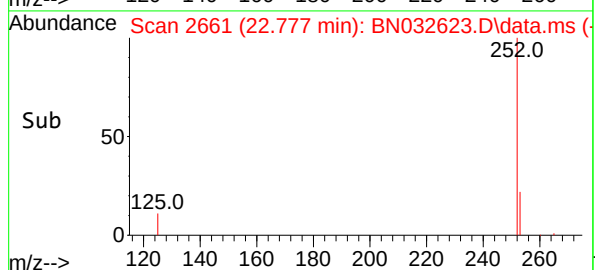
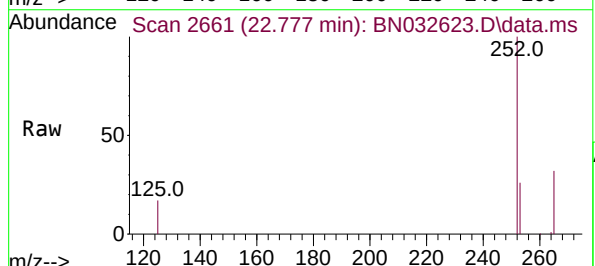
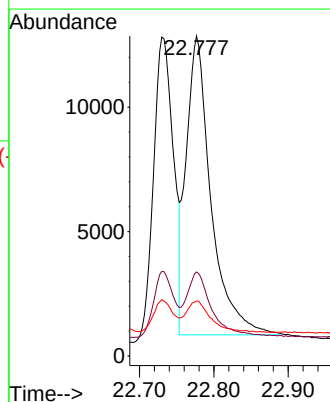
RT: 22.777 min Scan# 2661

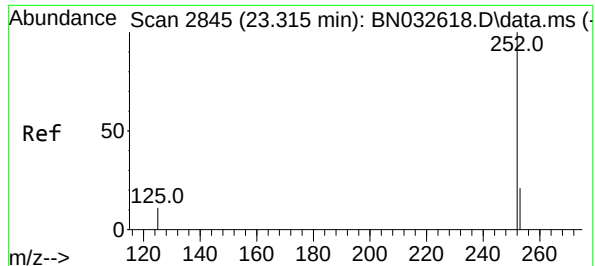
Delta R.T. -0.006 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:252	Resp:	27788
Ion Ratio	Lower	Upper
252	100	
253	26.3	22.6 34.0
125	17.2	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.306 min Scan# 2134

Delta R.T. -0.009 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

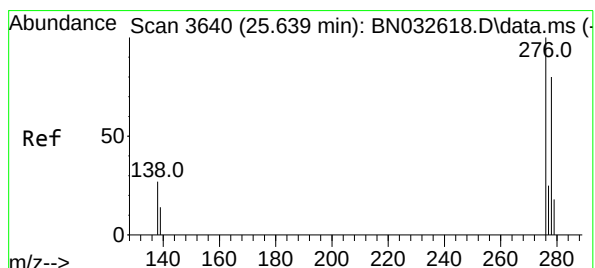
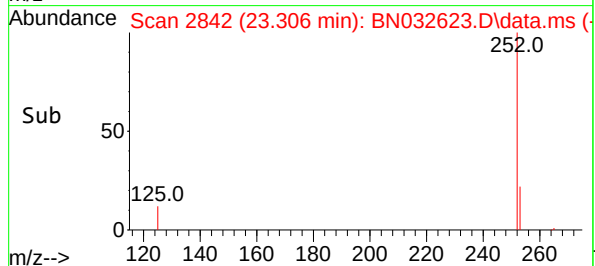
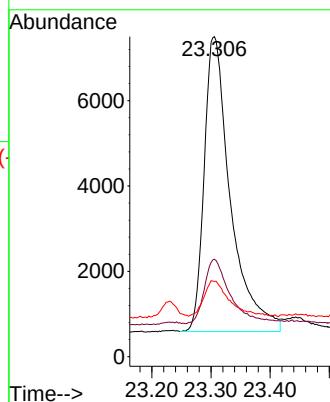
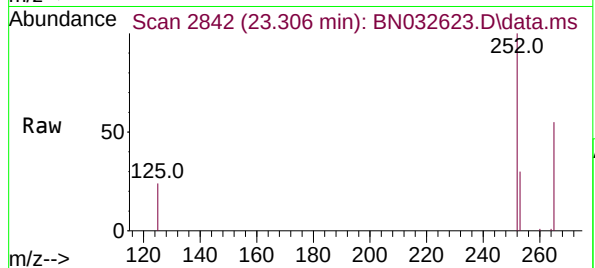
ICVBN071124

Tgt Ion:	252	Resp:	2134
Ion Ratio	Lower	Upper	
252	100		
253	30.4	25.8	38.8
125	23.5	21.4	32.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/11/2024

Supervised By :mohammad ahmed 07/11/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

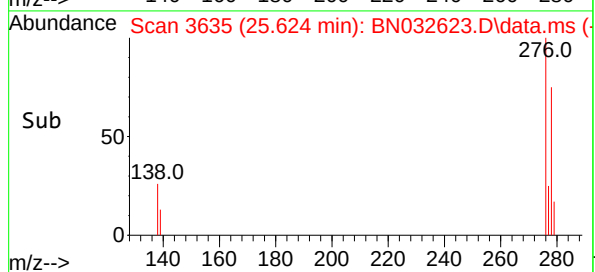
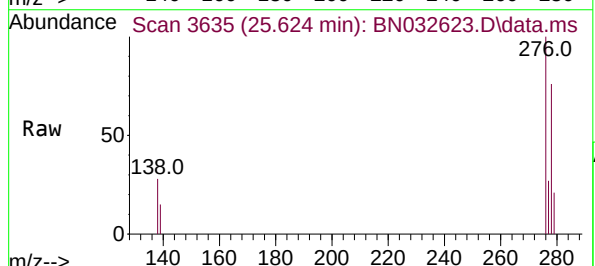
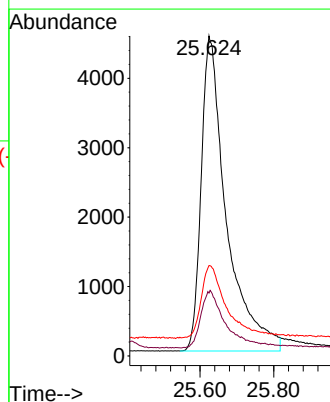
RT: 25.624 min Scan# 3635

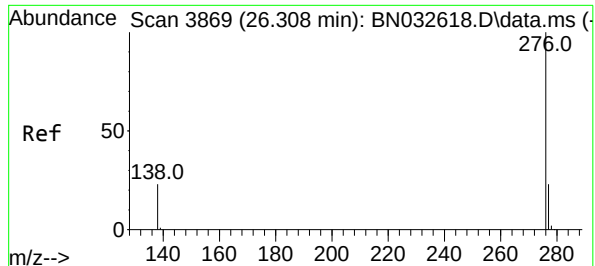
Delta R.T. -0.015 min

Lab File: BN032623.D

Acq: 10 Jul 2024 20:44

Tgt Ion:	278	Resp:	21513
Ion Ratio	Lower	Upper	
278	100		
139	19.7	16.7	25.1
279	28.3	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.294 min Scan# 3864

Delta R.T. -0.015 min

Lab File: BN032623.D

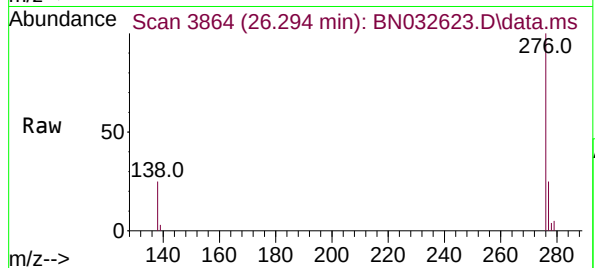
Acq: 10 Jul 2024 20:44

Instrument :

BNA_N

ClientSampleId :

ICVBN071124



Tgt Ion: 276 Resp: 24178

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

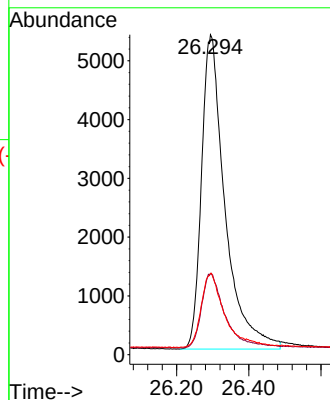
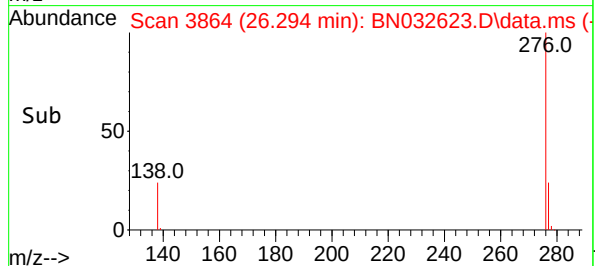
138 25.4 20.5 30.7

Manual Integrations

APPROVED

Reviewed By : Yogesh Patel 07/11/2024

Supervised By : mohammad ahmed 07/11/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
 Data File : BN032623.D
 Acq On : 10 Jul 2024 20:44
 Operator : MA/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN071124

Quant Time: Jul 10 23:47:50 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jul 10 23:45:48 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	103	0.00
2	1,4-Dioxane	0.496	0.492	0.8	103	0.00
3	n-Nitrosodimethylamine	0.419	0.398	5.0	97	0.00
4 S	2-Fluorophenol	1.012	0.962	4.9	96	0.00
5 S	Phenol-d6	1.256	1.219	2.9	100	0.01
6	bis(2-Chloroethyl)ether	1.050	1.059	-0.9	103	0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
8 S	Nitrobenzene-d5	0.301	0.283	6.0	104	0.01
9	Naphthalene	1.108	1.101	0.6	107	0.00
10	Hexachlorobutadiene	0.212	0.216	-1.9	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.612	0.608	0.7	109	0.00
12	2-Methylnaphthalene	0.724	0.703	2.9	108	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.171	0.152	11.1	109	0.00
15 S	2-Fluorobiphenyl	1.489	1.476	0.9	109	0.00
16	Acenaphthylene	1.627	1.485	8.7	109	0.00
17	Acenaphthene	1.153	1.147	0.5	110	0.00
18	Fluorene	1.541	1.523	1.2	110	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.033	41.1#	107	0.00
21	4-Bromophenyl-phenylether	0.235	0.228	3.0	110	0.00
22	Hexachlorobenzene	0.263	0.257	2.3	110	0.00
23	Atrazine	0.173	0.161	6.9	115	0.00
24	Pentachlorophenol	0.098	0.072	26.5#	98	0.01
25	Phenanthrene	1.093	1.061	2.9	112	0.00
26	Anthracene	0.900	0.792	12.0	112	0.00
27 SURR	Fluoranthene-d10	1.035	1.031	0.4	116	0.00
28	Fluoranthene	1.323	1.315	0.6	117	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	129	0.00
30	Pyrene	1.634	1.547	5.3	118	0.00
31 S	Terphenyl-d14	0.820	0.784	4.4	120	0.00
32	Benzo(a)anthracene	1.265	1.134	10.4	122	0.00
33	Chrysene	1.504	1.590	-5.7	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.700	0.656	6.3	140	0.00
35 I	Perylene-d12	1.000	1.000	0.0	137	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.505	4.6	134	-0.02
37	Benzo(b)fluoranthene	1.393	1.277	8.3	133	0.00
38	Benzo(k)fluoranthene	1.592	1.538	3.4	132	0.00
39 C	Benzo(a)pyrene	1.256	1.181	6.0	134	0.00
40	Dibenzo(a,h)anthracene	1.245	1.190	4.4	134	-0.01
41	Benzo(g,h,i)perylene	1.379	1.338	3.0	133	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032623.D
Acq On : 10 Jul 2024 20:44
Operator : MA/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN071124

Quant Time: Jul 10 23:47:50 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jul 10 23:45:48 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	103	0.00
2	1,4-Dioxane	0.400	0.397	0.8	103	0.00
3	n-Nitrosodimethylamine	0.400	0.380	5.0	97	0.00
4 S	2-Fluorophenol	0.400	0.380	5.0	96	0.00
5 S	Phenol-d6	0.400	0.388	3.0	100	0.01
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	103	0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	107	0.00
8 S	Nitrobenzene-d5	0.400	0.376	6.0	104	0.01
9	Naphthalene	0.400	0.397	0.8	107	0.00
10	Hexachlorobutadiene	0.400	0.407	-1.7	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.397	0.8	109	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	108	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	110	0.00
14 S	2,4,6-Tribromophenol	0.400	0.355	11.3	109	0.00
15 S	2-Fluorobiphenyl	0.400	0.397	0.8	109	0.00
16	Acenaphthylene	0.400	0.365	8.8	109	0.00
17	Acenaphthene	0.400	0.398	0.5	110	0.00
18	Fluorene	0.400	0.395	1.3	110	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	111	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.444	-11.0	107	0.00
21	4-Bromophenyl-phenylether	0.400	0.388	3.0	110	0.00
22	Hexachlorobenzene	0.400	0.390	2.5	110	0.00
23	Atrazine	0.400	0.371	7.3	115	0.00
24	Pentachlorophenol	0.400	0.293	26.8#	98	0.01
25	Phenanthrene	0.400	0.388	3.0	112	0.00
26	Anthracene	0.400	0.352	12.0	112	0.00
27 SURR	Fluoranthene-d10	0.400	0.398	0.5	116	0.00
28	Fluoranthene	0.400	0.398	0.5	117	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	129	0.00
30	Pyrene	0.400	0.379	5.3	118	0.00
31 S	Terphenyl-d14	0.400	0.382	4.5	120	0.00
32	Benzo(a)anthracene	0.400	0.359	10.3	122	0.00
33	Chrysene	0.400	0.423	-5.7	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.375	6.3	140	0.00
35 I	Perylene-d12	0.400	0.400	0.0	137	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.382	4.5	134	-0.02
37	Benzo(b)fluoranthene	0.400	0.367	8.3	133	0.00
38	Benzo(k)fluoranthene	0.400	0.386	3.5	132	0.00
39 C	Benzo(a)pyrene	0.400	0.376	6.0	134	0.00
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	134	-0.01
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	133	-0.01

(#) = 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: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG No.: P3426

Instrument ID: BNA_N Calibration Date/Time: 08/02/2024 20:59

Lab File ID: BN033212.D Init. Calib. Date(s): 07/10/2024 07/10/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:54 19:32

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.612	0.526		-14.1	20.0
Fluoranthene-d10	1.035	0.844		-18.5	20.0
2-Fluorophenol	1.012	1.024		1.2	20.0
Phenol-d6	1.256	1.543		22.9	20.0
Nitrobenzene-d5	0.301	0.290		-3.7	20.0
Naphthalene	1.108	1.052		-5.1	20.0
2-Methylnaphthalene	0.724	0.585		-19.2	20.0
2-Fluorobiphenyl	1.489	1.485		-0.3	20.0
Acenaphthylene	1.627	1.648		1.3	20.0
Acenaphthene	1.153	1.110		-3.7	20.0
Fluorene	1.541	1.340		-13.0	20.0
2,4,6-Tribromophenol	0.171	0.105		-38.6	20.0
Phenanthrene	1.093	0.954		-12.7	20.0
Anthracene	0.900	0.859		-4.6	20.0
Fluoranthene	1.323	1.063		-19.7	20.0
Pyrene	1.634	1.596		-2.3	20.0
Terphenyl-d14	0.820	0.779		-5.0	20.0
Benzo (a) anthracene	1.265	1.078		-14.8	20.0
Chrysene	1.504	1.391		-7.5	20.0
Benzo (b) fluoranthene	1.393	1.106		-20.6	20.0
Benzo (k) fluoranthene	1.592	1.319		-17.1	20.0
Benzo (a) pyrene	1.256	1.099		-12.5	20.0
Indeno (1,2,3-cd) pyrene	1.577	1.588		0.7	20.0
Dibenzo (a,h) anthracene	1.245	1.243		-0.2	20.0
Benzo (g,h,i) perylene	1.379	1.393		1.0	20.0
1,4-Dioxane	0.496	0.514		3.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033212.D
 Acq On : 02 Aug 2024 20:59
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 01:10:25 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.503	152	2541	0.400	ng	0.00
7) Naphthalene-d8	10.287	136	8773	0.400	ng	# 0.00
13) Acenaphthene-d10	14.137	164	4558	0.400	ng	0.00
19) Phenanthrene-d10	16.920	188	8276	0.400	ng	0.00
29) Chrysene-d12	21.133	240	5892	0.400	ng	0.00
35) Perylene-d12	23.315	264	6636	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.242	112	2601m	0.405	ng	0.00
5) Phenol-d6	6.882	99	3920m	0.491	ng	0.00
8) Nitrobenzene-d5	8.813	82	2543	0.385	ng	0.00
11) 2-Methylnaphthalene-d10	11.901	152	4618	0.344	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	480	0.246	ng	0.00
15) 2-Fluorobiphenyl	12.790	172	6767	0.399	ng	0.00
27) Fluoranthene-d10	18.959	212	6985	0.326	ng	0.00
31) Terphenyl-d14	19.563	244	4588	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.083	88	1305	0.415	ng	# 86
3) n-Nitrosodimethylamine	3.473	42	1152	0.433	ng	82
6) bis(2-Chloroethyl)ether	7.012	93	2332m	0.350	ng	
9) Naphthalene	10.340	128	9227	0.380	ng	98
10) Hexachlorobutadiene	10.532	225	1744	0.376	ng	# 99
12) 2-Methylnaphthalene	11.976	142	5133	0.323	ng	# 95
16) Acenaphthylene	13.869	152	7513	0.405	ng	99
17) Acenaphthene	14.201	154	5060	0.385	ng	99
18) Fluorene	15.216	166	6106	0.348	ng	97
20) 4,6-Dinitro-2-methylph...	15.555	198	87	0.341	ng	# 1
21) 4-Bromophenyl-phenylether	16.113	248	1772	0.364	ng	94
22) Hexachlorobenzene	16.200	284	1998	0.367	ng	# 89
23) Atrazine	16.411	200	1356	0.379	ng	97
24) Pentachlorophenol	16.635	266	439	0.217	ng	94
25) Phenanthrene	16.970	178	7899	0.349	ng	99
26) Anthracene	17.069	178	7108m	0.382	ng	
28) Fluoranthene	18.992	202	8799	0.322	ng	99
30) Pyrene	19.359	202	9406	0.391	ng	100
32) Benzo(a)anthracene	21.125	228	6349	0.341	ng	97
33) Chrysene	21.169	228	8197	0.370	ng	99
34) Bis(2-ethylhexyl)phtha...	21.008	149	4875	0.473	ng	# 88
36) Indeno(1,2,3-cd)pyrene	25.507	276	10540	0.403	ng	100
37) Benzo(b)fluoranthene	22.660	252	7337m	0.317	ng	
38) Benzo(k)fluoranthene	22.703	252	8750	0.331	ng	95
39) Benzo(a)pyrene	23.224	252	7295	0.350	ng	95
40) Dibenzo(a,h)anthracene	25.507	278	8249	0.399	ng	95
41) Benzo(g,h,i)perylene	26.177	276	9245	0.404	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033212.D
Acq On : 02 Aug 2024 20:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024

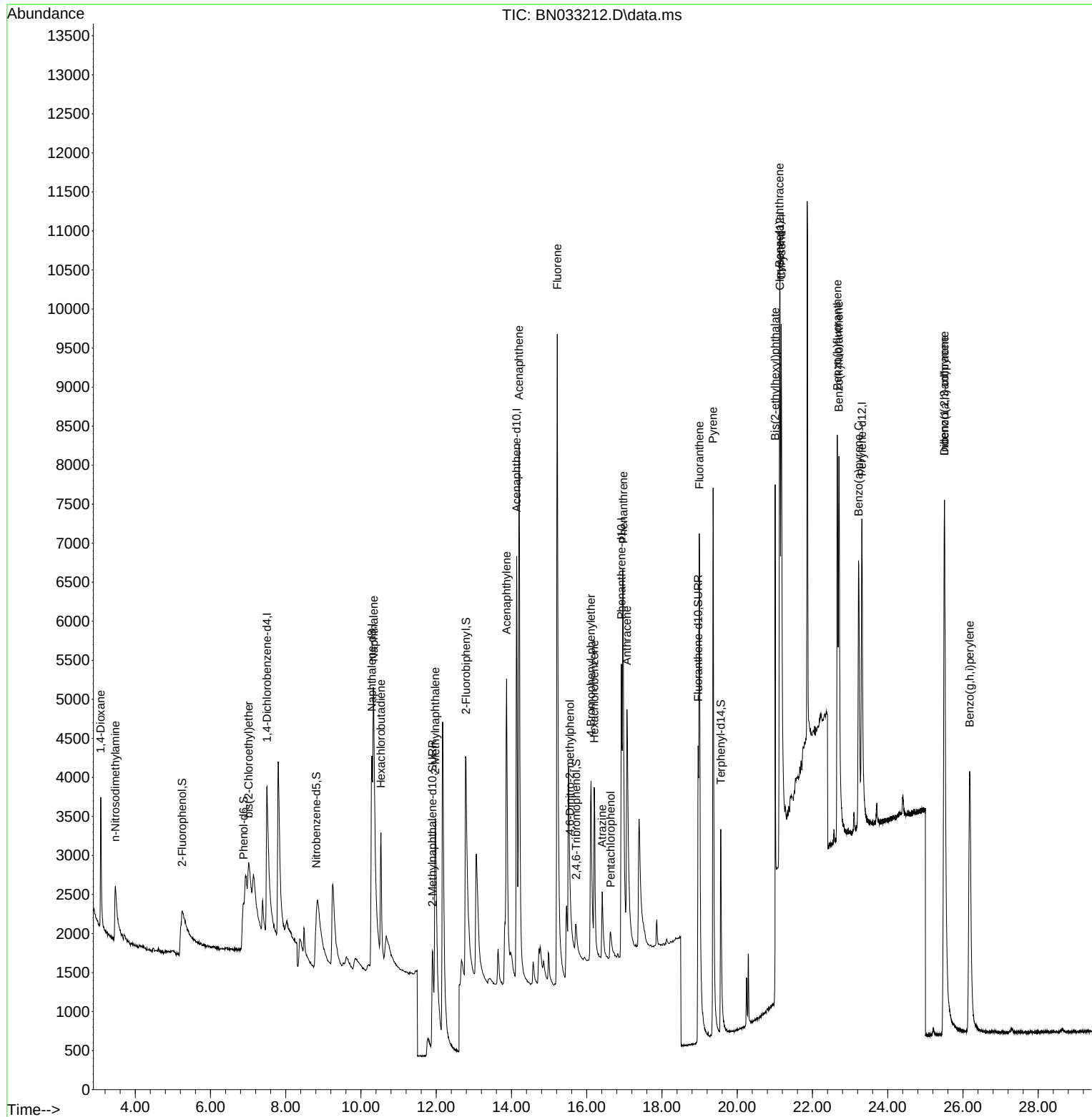
Quant Time: Aug 03 01:10:25 2024

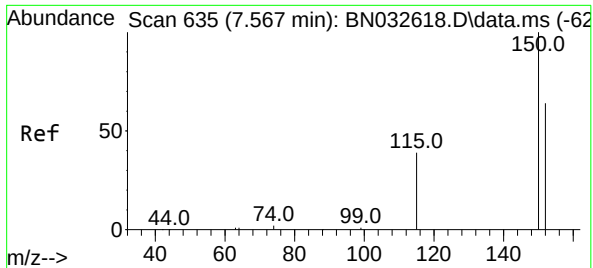
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 02 22:49:47 2024

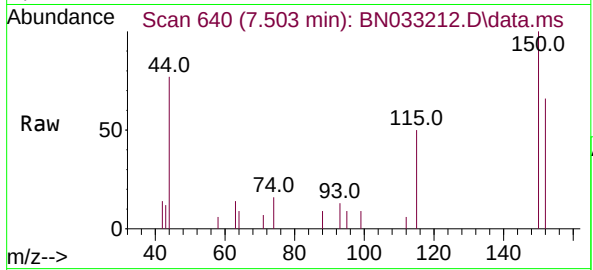
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.503 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

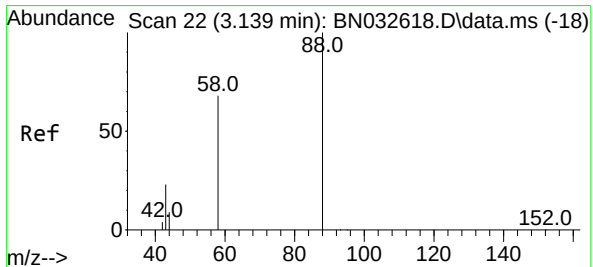
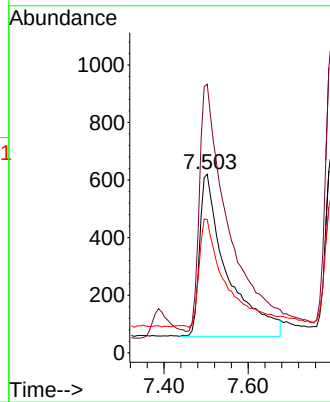
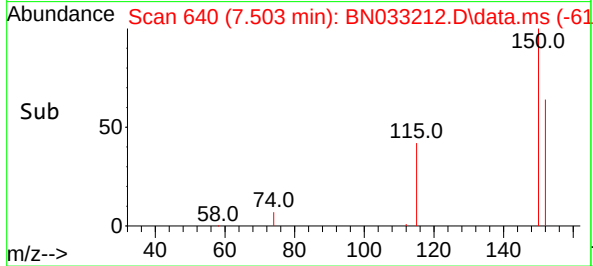
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 254
Ion Ratio Lower Upper
152 100
150 150.5 123.8 185.6
115 74.7 52.8 79.2

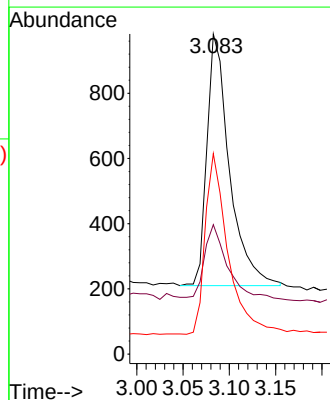
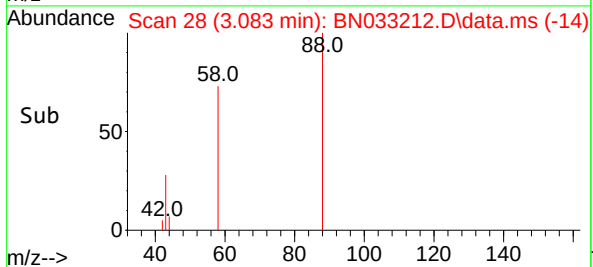
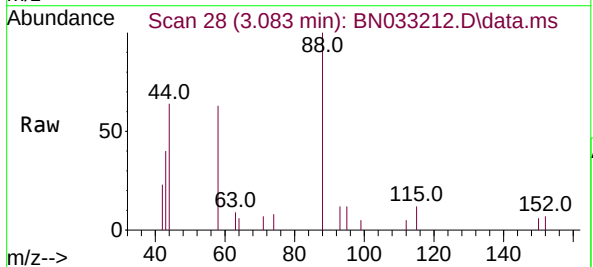
Manual Integrations
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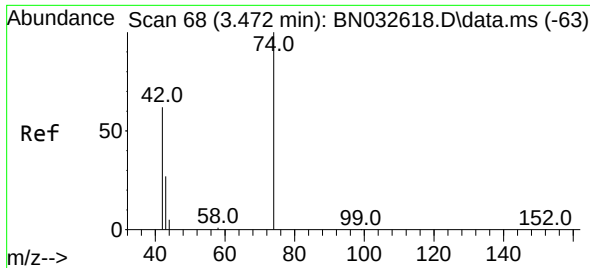
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.415 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

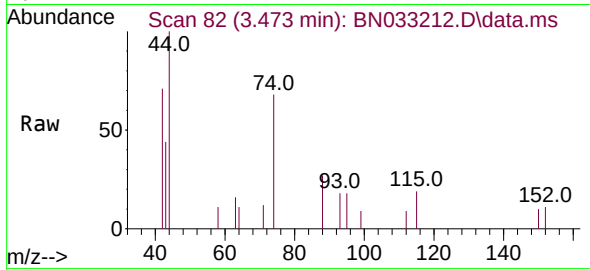
Tgt Ion: 88 Resp: 1305
Ion Ratio Lower Upper
88 100
43 29.9 18.4 27.6#
58 72.5 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.433 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

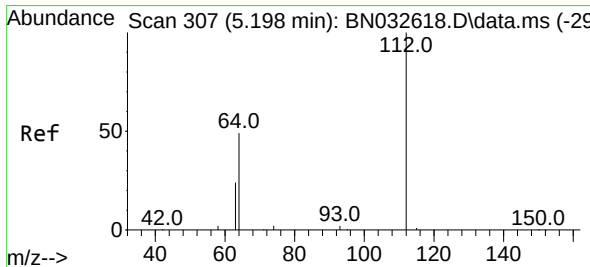
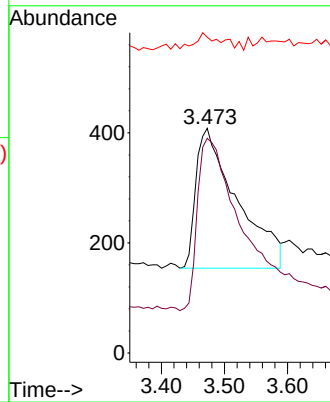
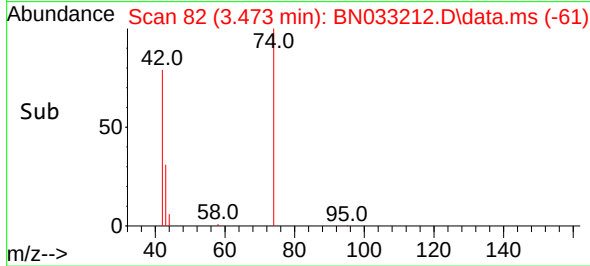
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 42 Resp: 115
Ion Ratio Lower Upper
42 100
74 133.5 126.9 190.3
44 6.1 4.8 7.2

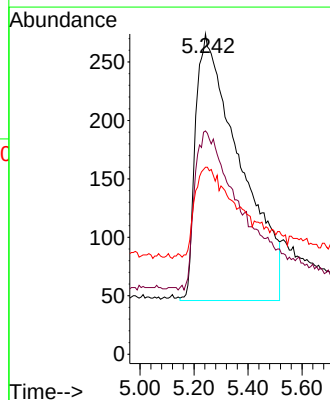
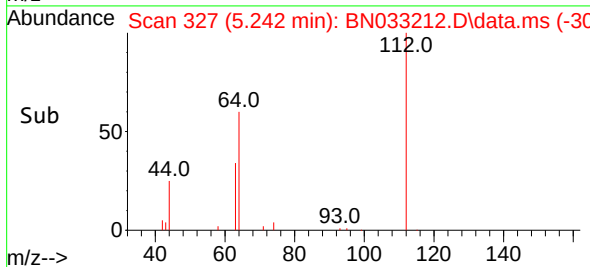
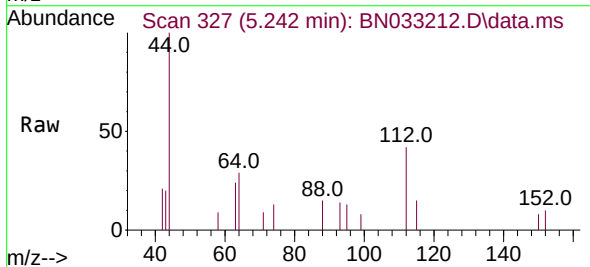
Manual Integrations
APPROVED

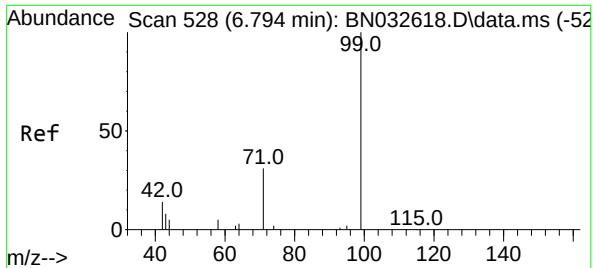
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.405 ng m
RT: 5.242 min Scan# 327
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion:112 Resp: 2601
Ion Ratio Lower Upper
112 100
64 50.7 40.2 60.4
63 29.5 22.2 33.4





#5

Phenol-d6

Concen: 0.491 ng m

RT: 6.882 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

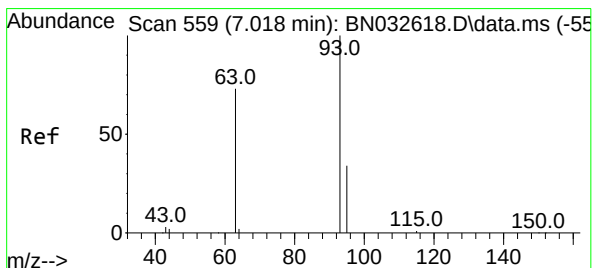
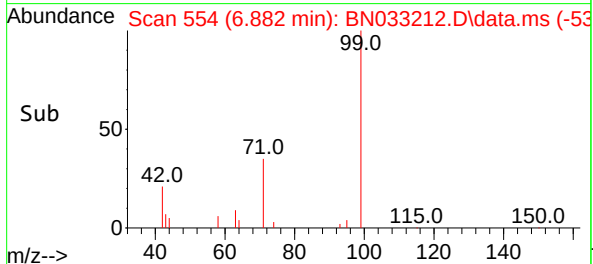
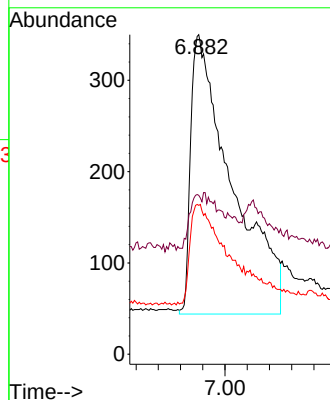
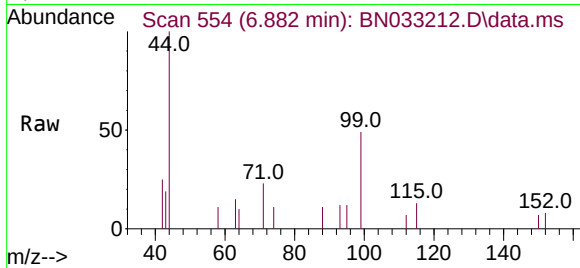
Tgt Ion:	99	Resp:	3920
Ion Ratio	Lower	Upper	
99	100		
42	5.6	10.5	15.7
71	29.8	22.3	33.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#6

bis(2-Chloroethyl)ether

Concen: 0.350 ng m

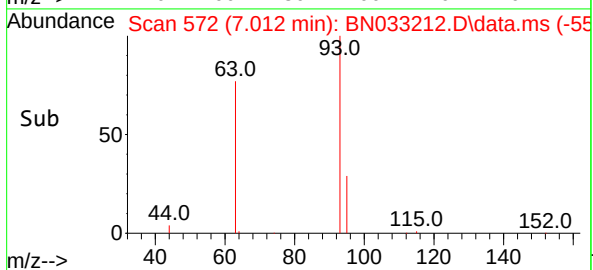
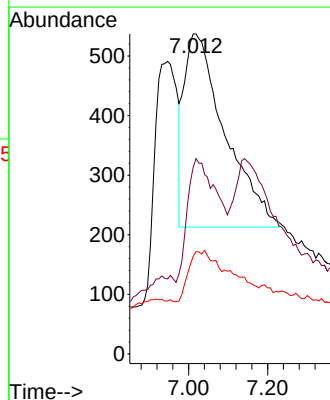
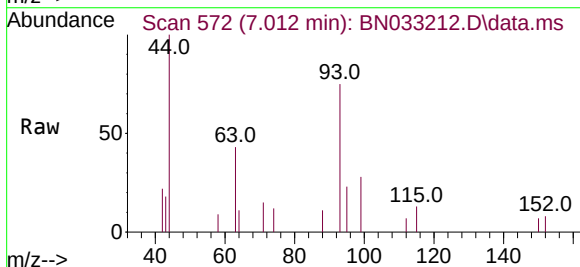
RT: 7.012 min Scan# 572

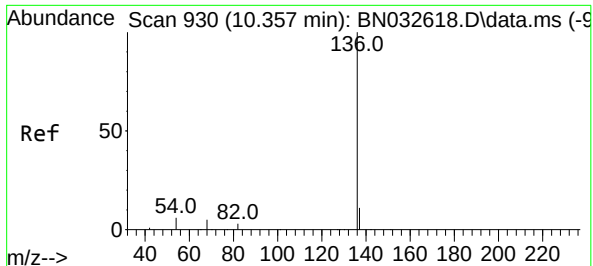
Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Tgt Ion:	93	Resp:	2332
Ion Ratio	Lower	Upper	
93	100		
63	48.1	46.4	69.6
95	0.0	25.5	38.3





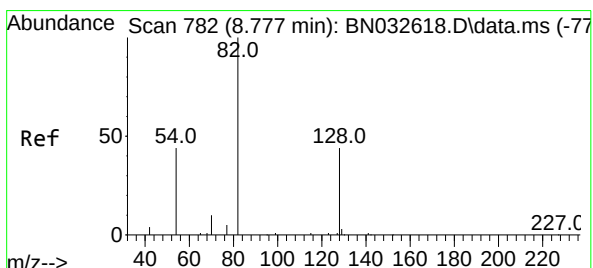
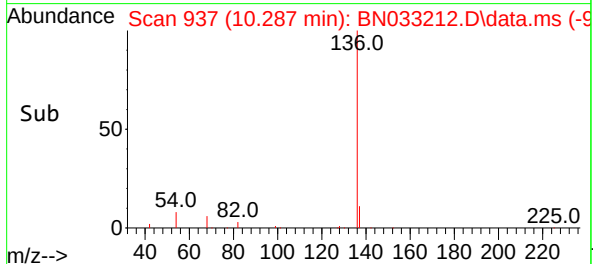
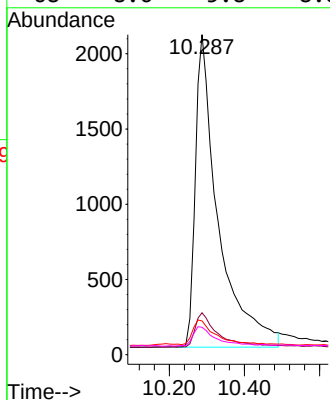
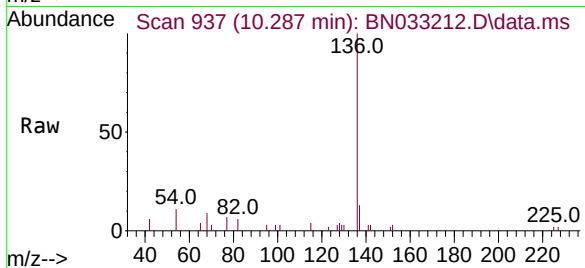
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.287 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 877
Ion Ratio Lower Upper
136 100
137 13.1 9.9 14.9
54 10.5 6.5 9.7
68 8.6 5.8 8.8

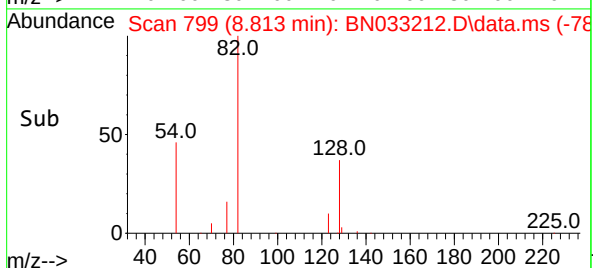
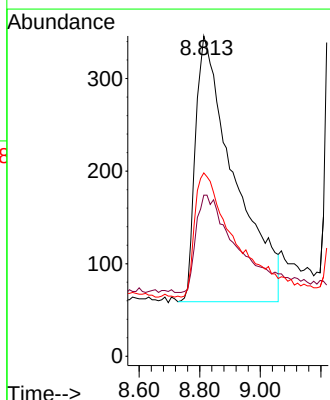
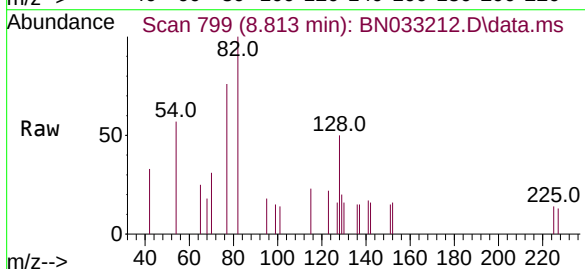
Manual Integrations
APPROVED

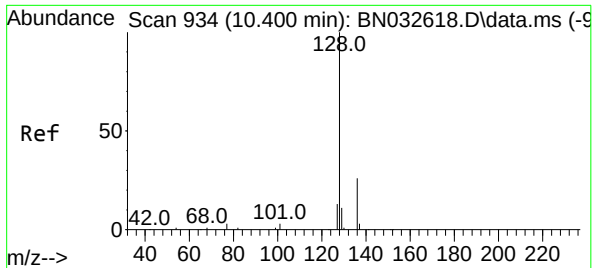
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.813 min Scan# 799
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion: 82 Resp: 2543
Ion Ratio Lower Upper
82 100
128 50.3 41.7 62.5
54 57.2 39.5 59.3





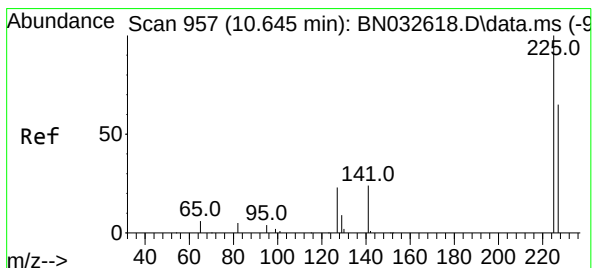
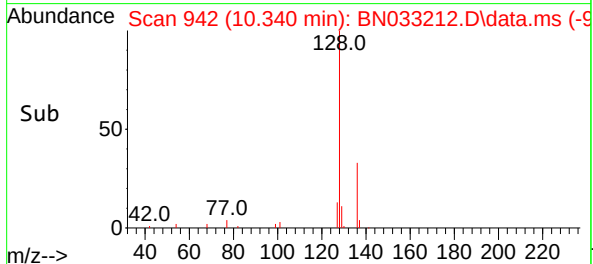
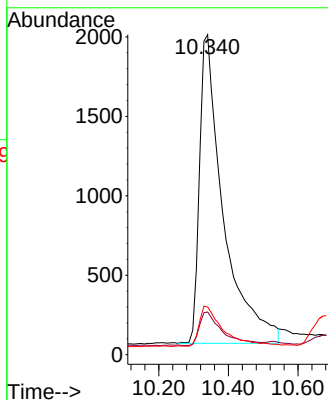
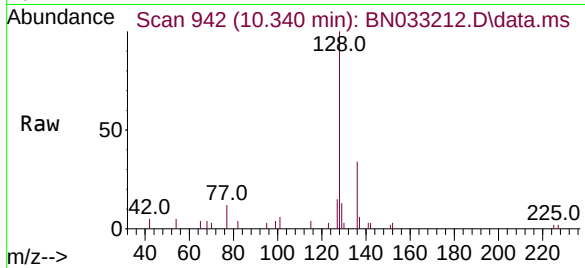
#9
Naphthalene
Concen: 0.380 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	9.8	14.8
127	14.9	11.5	17.3

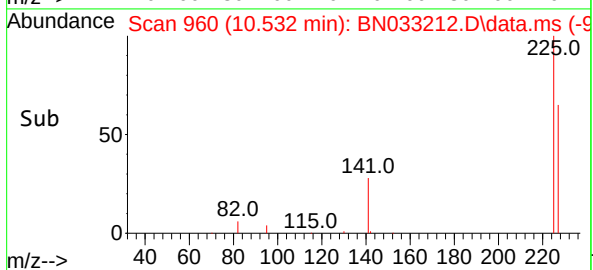
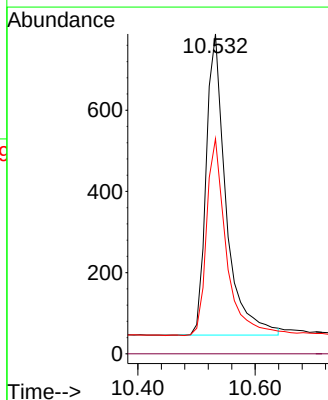
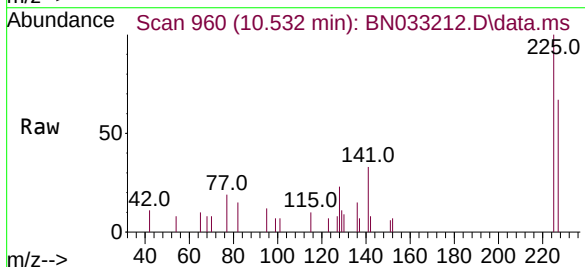
Manual Integrations
APPROVED

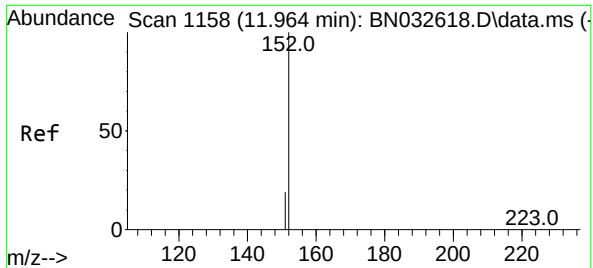
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.376 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

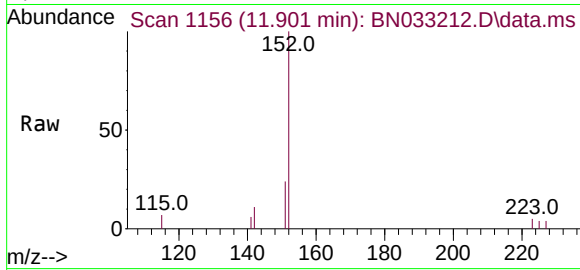
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.9	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.344 ng
RT: 11.901 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

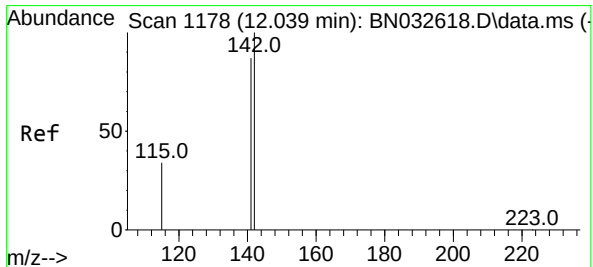
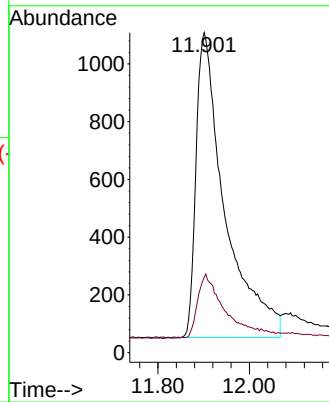
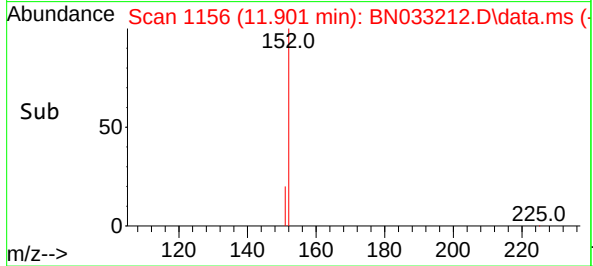
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4



Tgt Ion:152 Resp: 4618
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.2

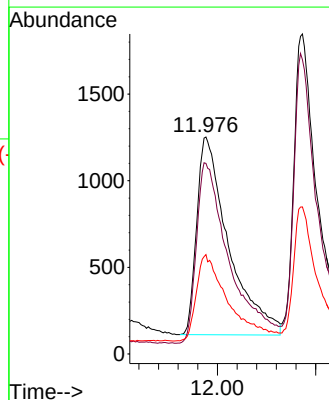
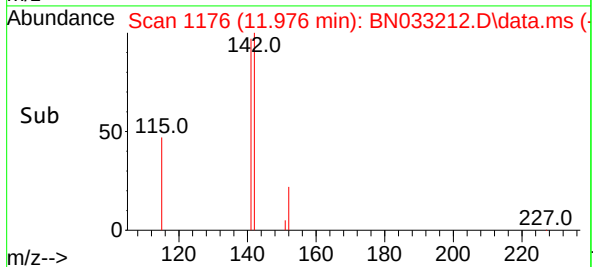
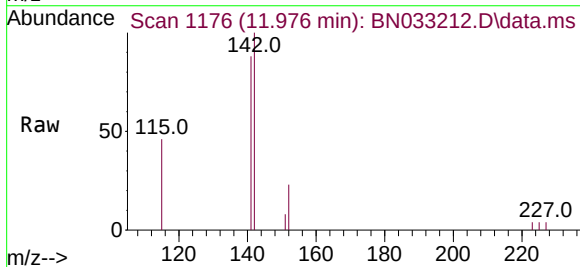
Manual Integrations
APPROVED

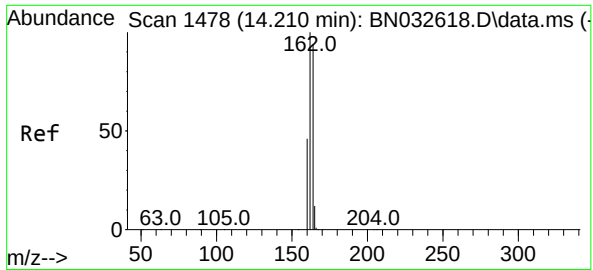
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 11.976 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

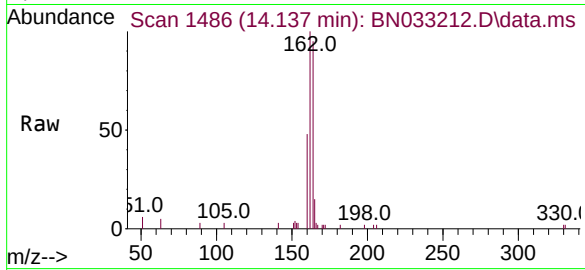
Tgt Ion:142 Resp: 5133
Ion Ratio Lower Upper
142 100
141 87.9 69.3 103.9
115 45.8 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

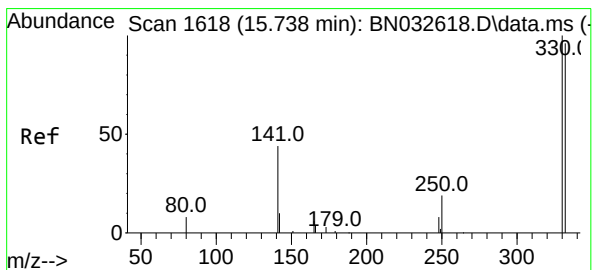
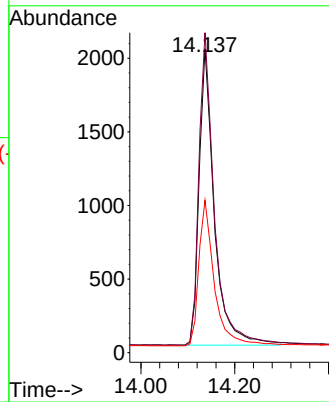
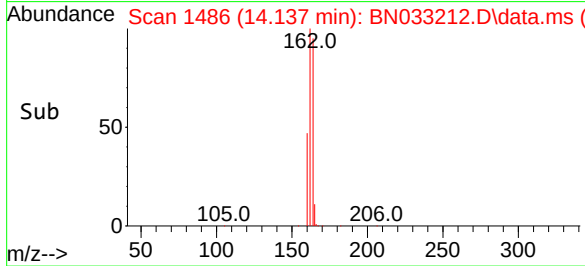
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



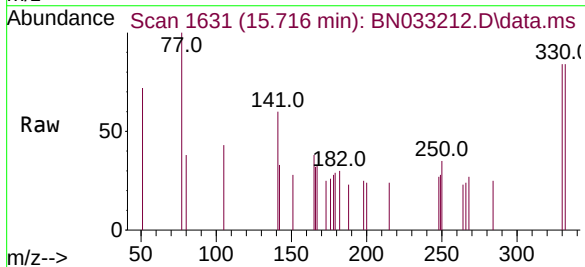
Tgt Ion:164 Resp: 455
Ion Ratio Lower Upper
164 100
162 105.3 85.0 127.4
160 50.2 39.4 59.2

Manual Integrations
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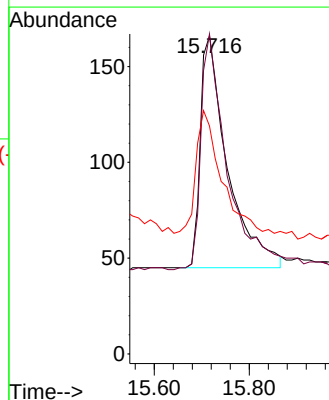
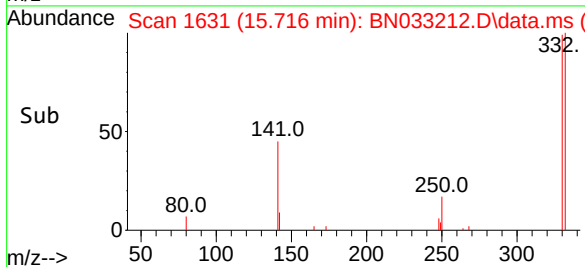
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

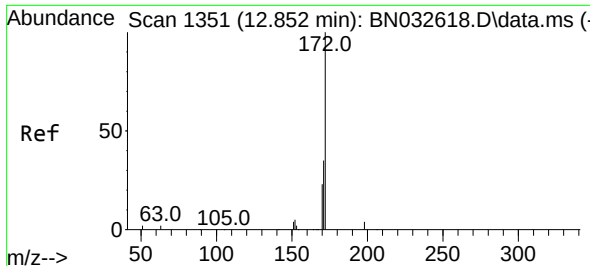


#14
2,4,6-Tribromophenol
Concen: 0.246 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59



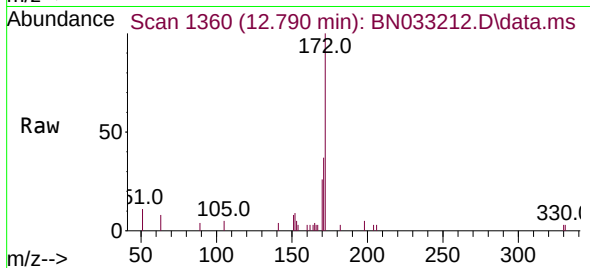
Tgt Ion:330 Resp: 480
Ion Ratio Lower Upper
330 100
332 99.2 77.8 116.8
141 49.0 34.2 51.2





#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.790 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

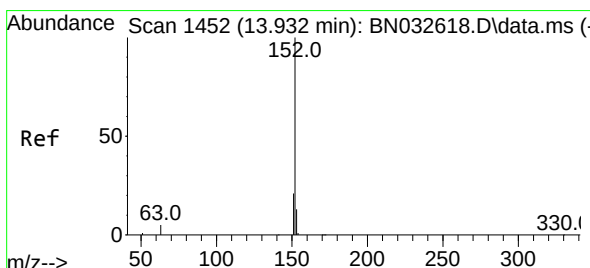
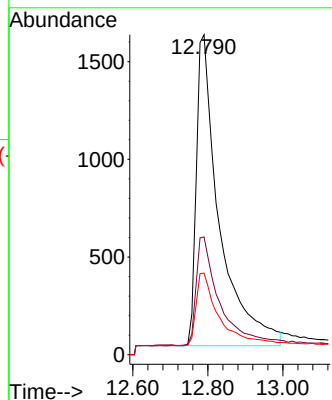
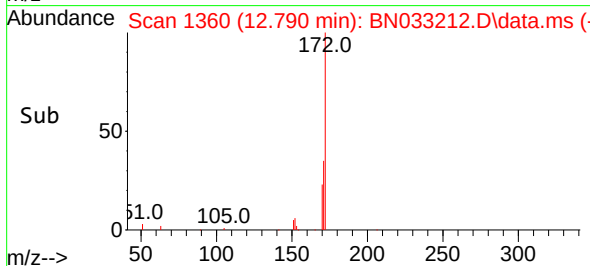
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 676
Ion Ratio Lower Upper
172 100
171 36.8 28.6 43.0
170 25.5 19.0 28.6

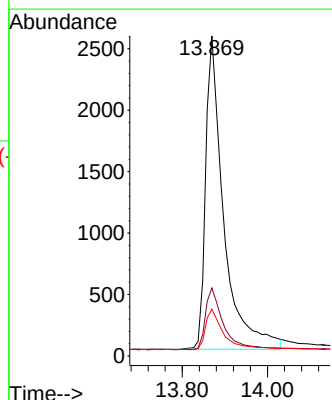
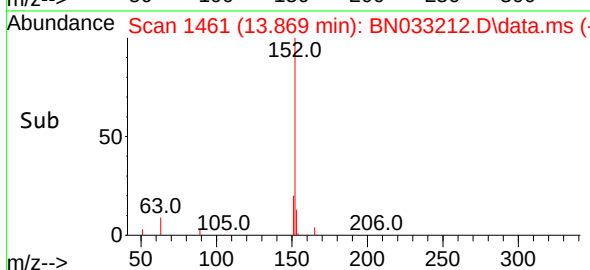
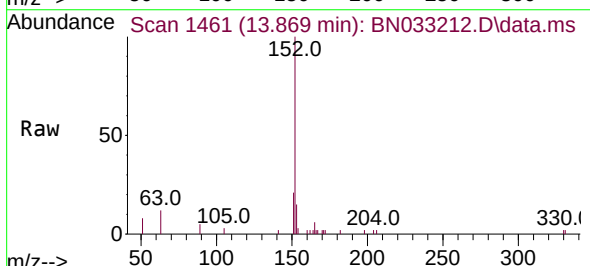
Manual Integrations
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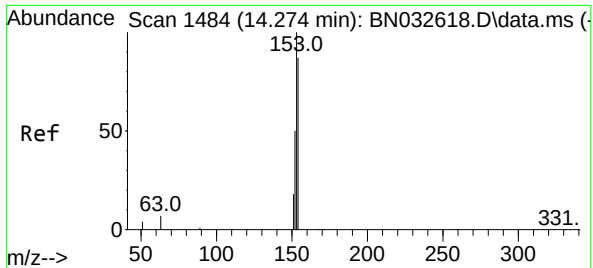
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.405 ng
RT: 13.869 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

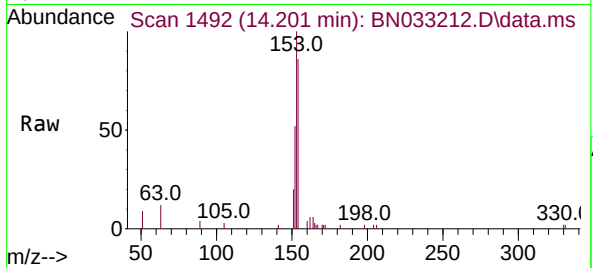
Tgt Ion:152 Resp: 7513
Ion Ratio Lower Upper
152 100
151 19.4 16.0 24.0
153 13.1 10.6 15.8





#17
Acenaphthene
Concen: 0.385 ng
RT: 14.201 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

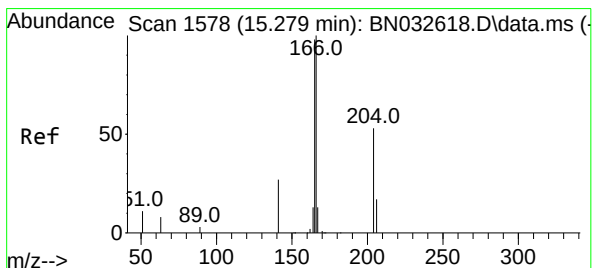
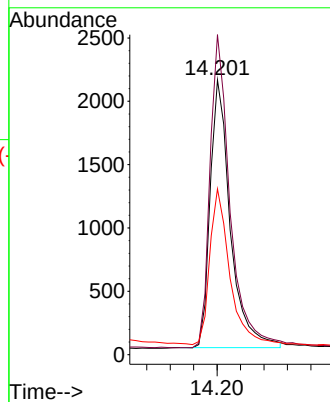
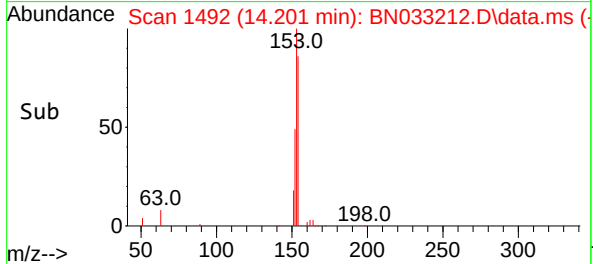
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 5060
Ion Ratio Lower Upper
154 100
153 116.6 91.8 137.8
152 57.1 45.2 67.8

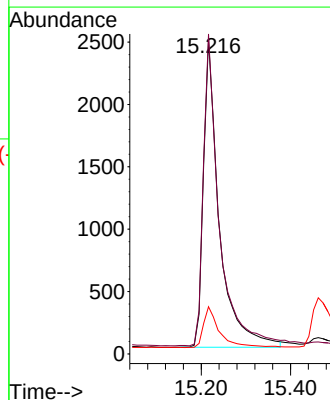
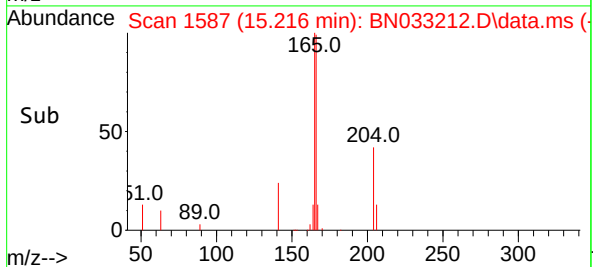
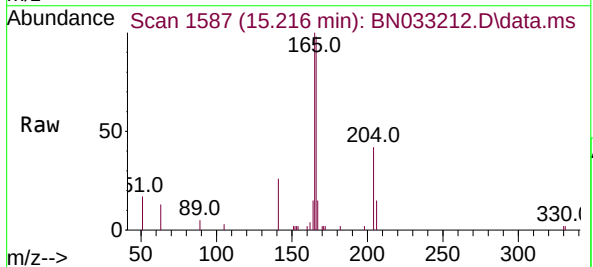
Manual Integrations
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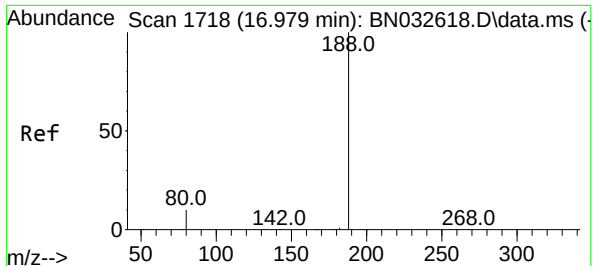
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.348 ng
RT: 15.216 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion:166 Resp: 6106
Ion Ratio Lower Upper
166 100
165 100.3 78.0 117.0
167 13.6 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.920 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

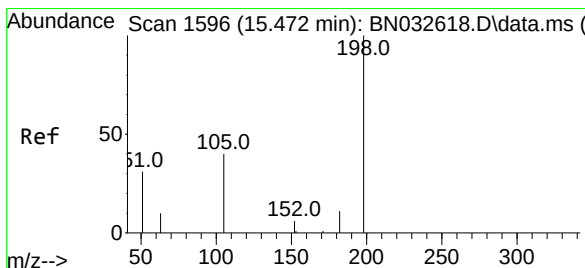
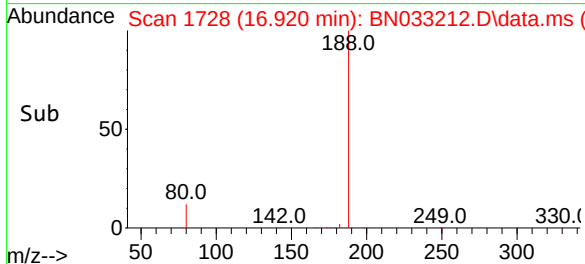
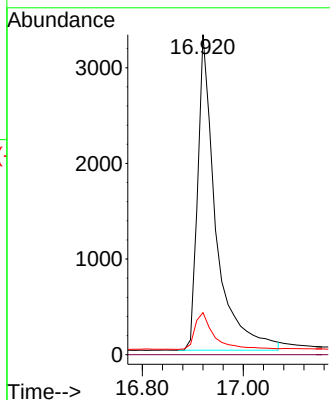
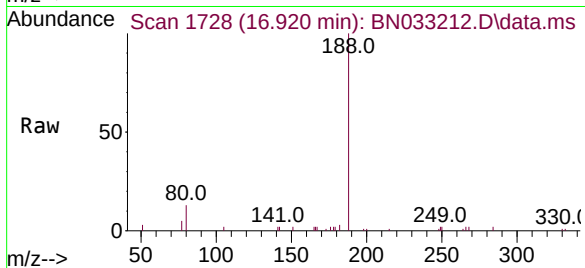
Tgt Ion:	188	Resp:	8270
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.2	8.8	13.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.341 ng

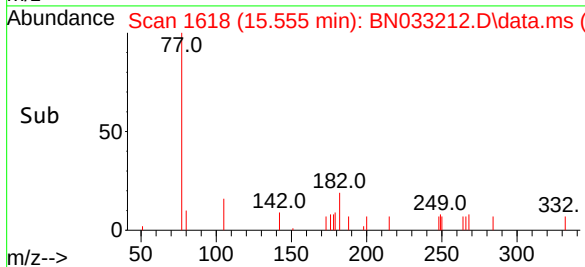
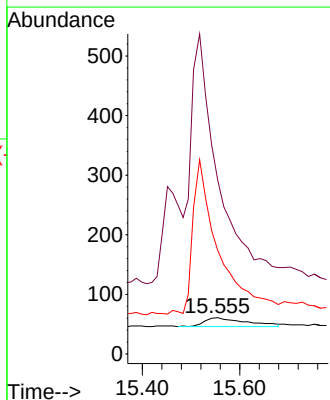
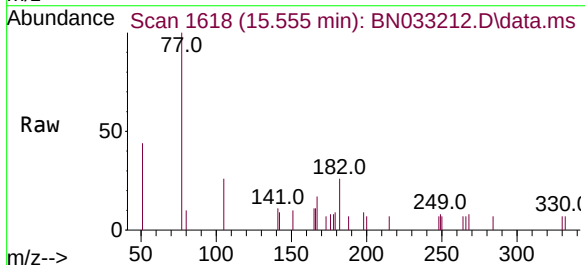
RT: 15.555 min Scan# 1618

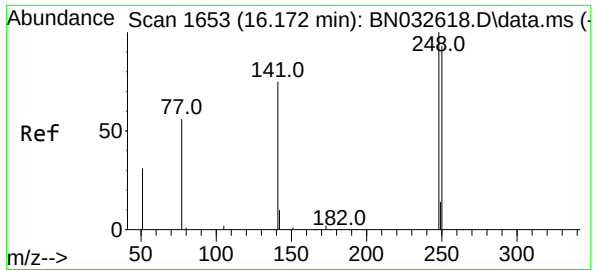
Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

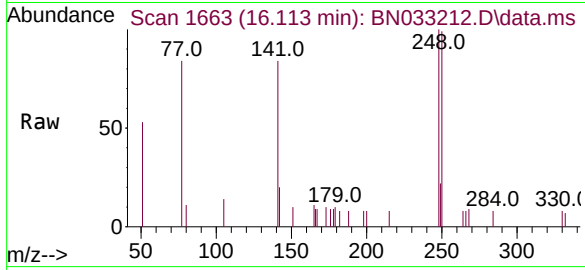
Tgt Ion:	198	Resp:	87
Ion Ratio	Lower	Upper	
198	100		
51	478.7	105.7	158.5#
105	285.2	63.0	94.6#





#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.113 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

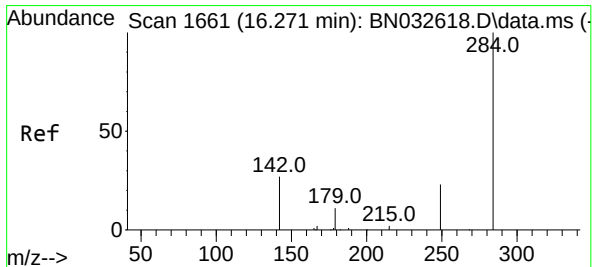
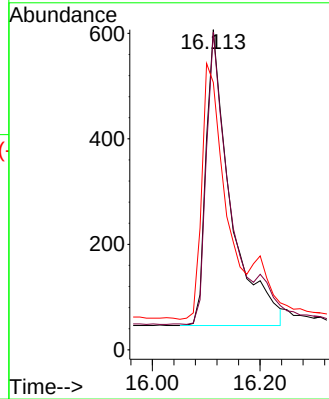
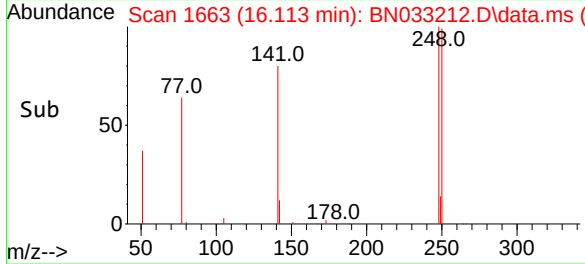
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



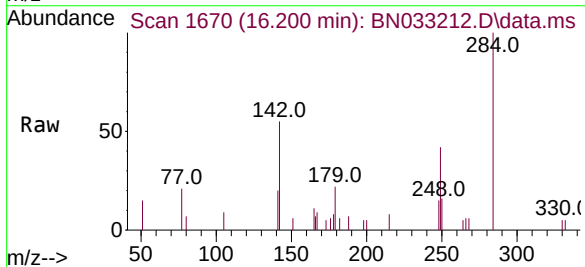
Tgt Ion:248 Resp: 1772
Ion Ratio Lower Upper
248 100
250 99.2 75.1 112.7
141 83.5 62.0 93.0

Manual Integrations
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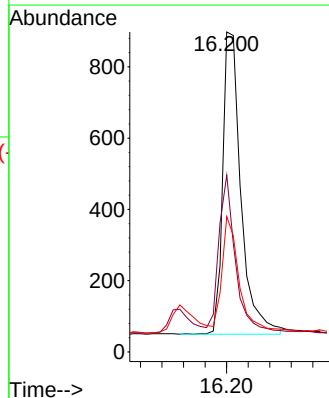
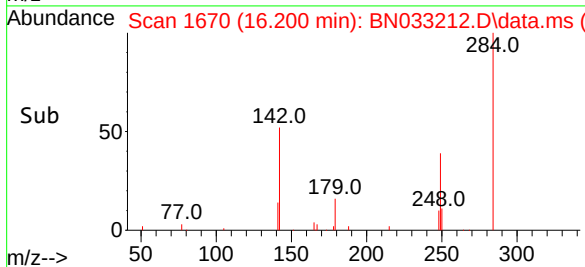
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

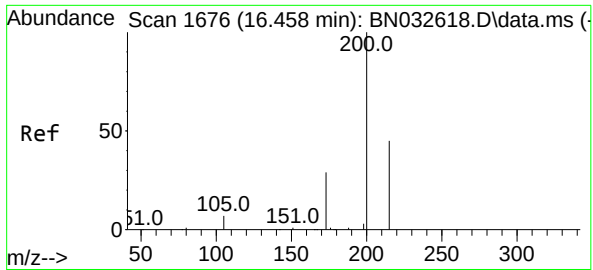


#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.200 min Scan# 1670
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59



Tgt Ion:284 Resp: 1998
Ion Ratio Lower Upper
284 100
142 45.3 29.4 44.0#
249 34.0 24.6 36.8





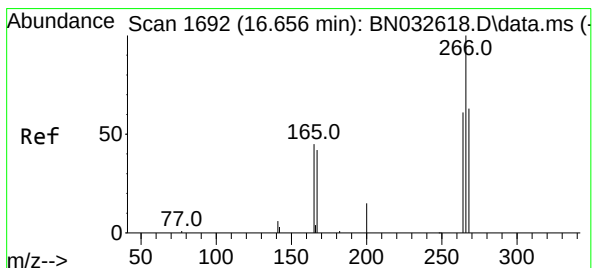
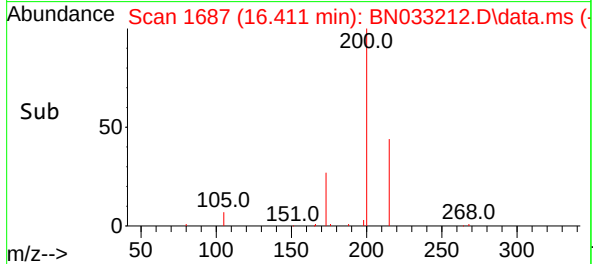
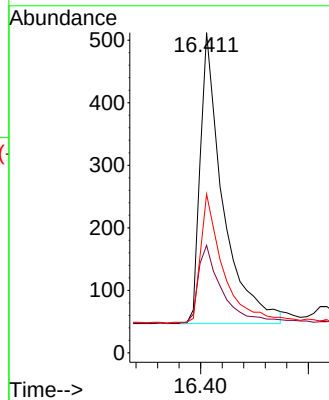
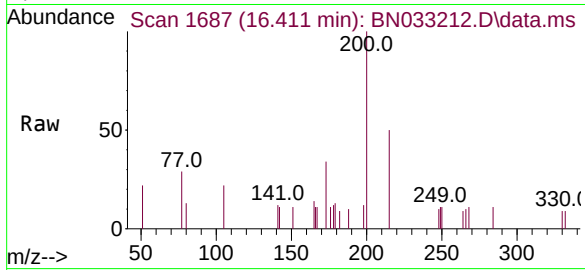
#23
Atrazine
Concen: 0.379 ng
RT: 16.411 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 1350
Ion Ratio Lower Upper
200 100
173 33.6 25.4 38.2
215 49.6 38.2 57.2

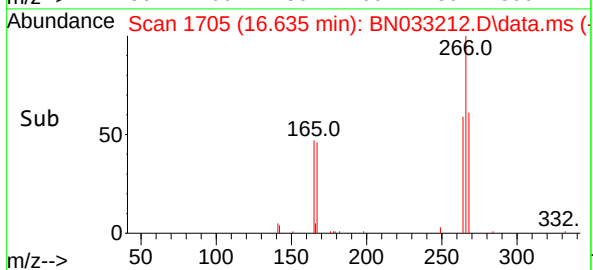
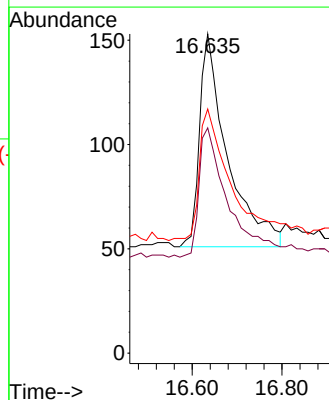
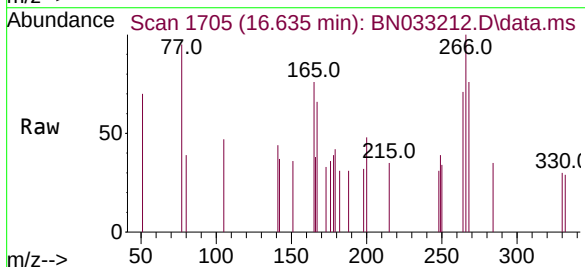
Manual Integrations
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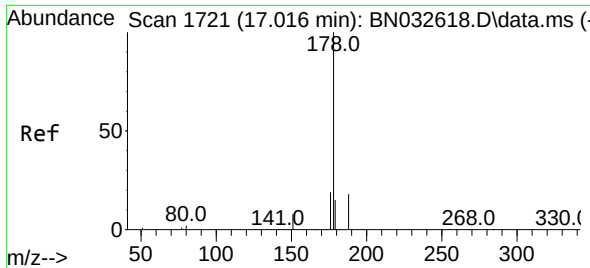
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.217 ng
RT: 16.635 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

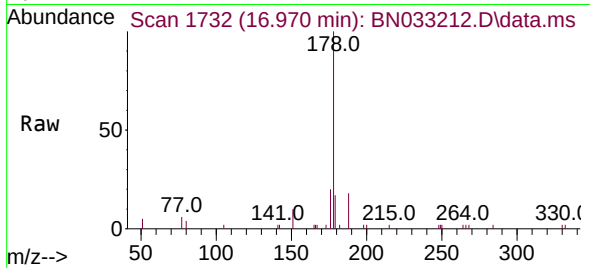
Tgt Ion:266 Resp: 439
Ion Ratio Lower Upper
266 100
264 66.7 50.2 75.2
268 72.0 52.8 79.2





#25
Phenanthrene
Concen: 0.349 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

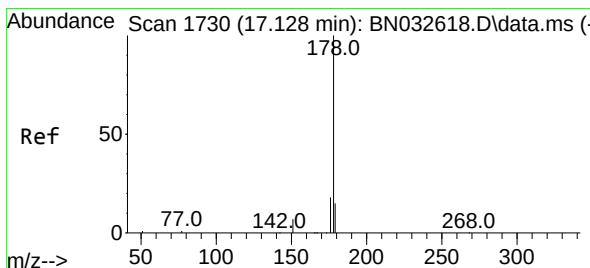
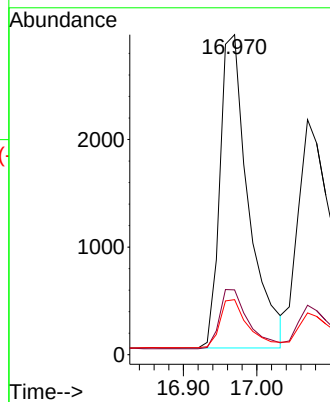
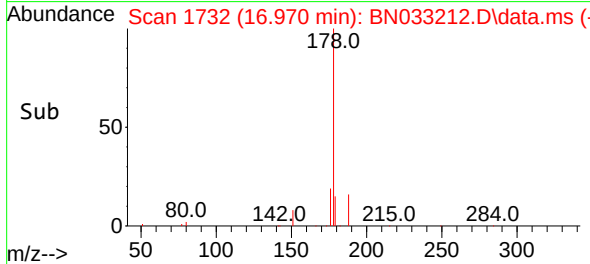
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 7899
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 15.3 12.2 18.4

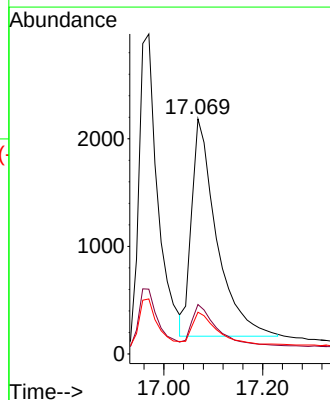
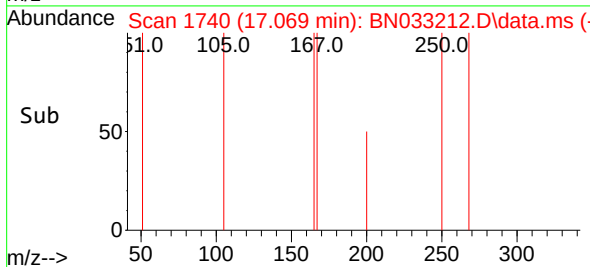
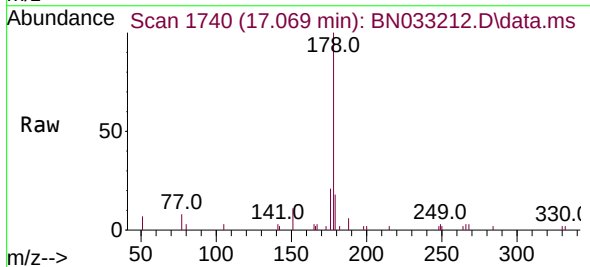
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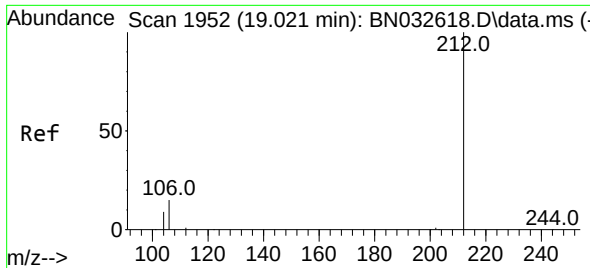
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.382 ng m
RT: 17.069 min Scan# 1740
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion:178 Resp: 7108
Ion Ratio Lower Upper
178 100
176 14.6 14.8 22.2#
179 11.8 11.8 17.8#





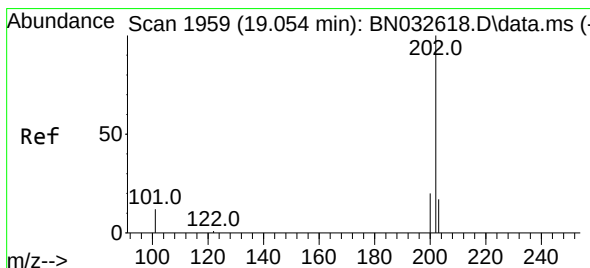
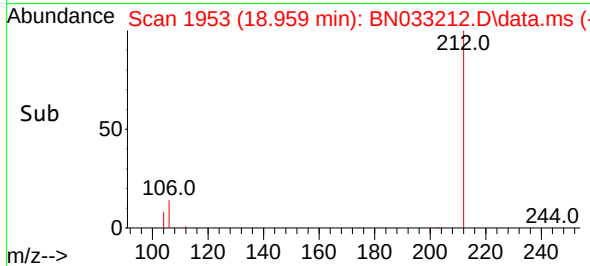
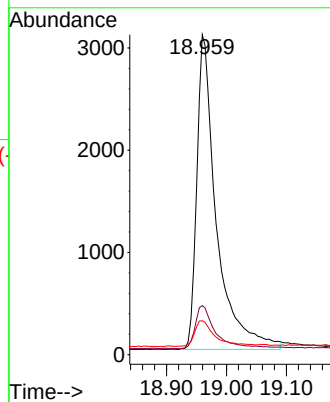
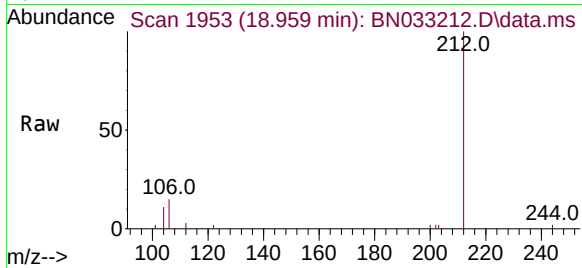
#27
Fluoranthene-d10
Concen: 0.326 ng
RT: 18.959 min Scan# 1952
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 6985
Ion Ratio Lower Upper
212 100
106 14.3 11.9 17.9
104 8.5 6.9 10.3

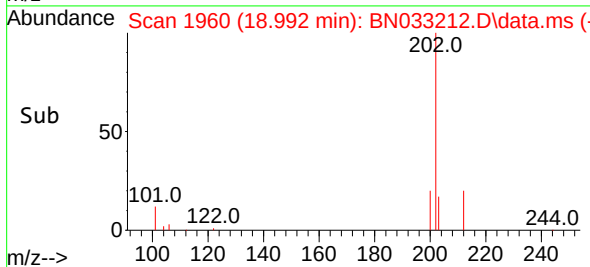
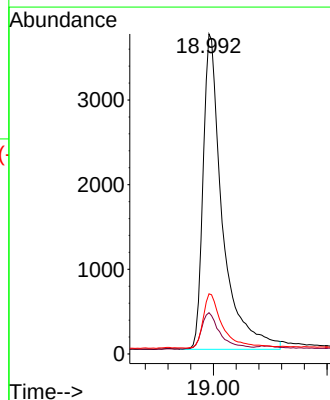
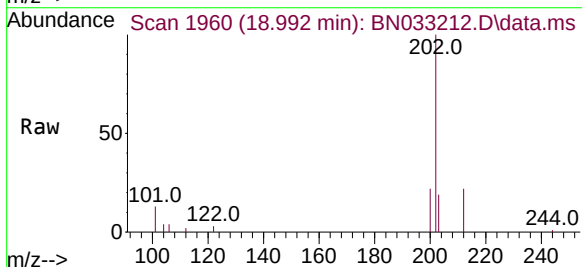
Manual Integrations
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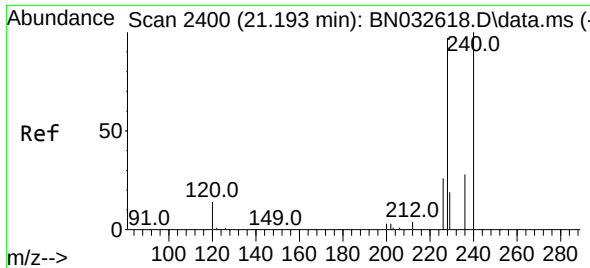
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#28
Fluoranthene
Concen: 0.322 ng
RT: 18.992 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion:202 Resp: 8799
Ion Ratio Lower Upper
202 100
101 11.2 9.6 14.4
203 17.3 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.133 min Scan# 2408

Delta R.T. 0.000 min

Lab File: BN033212.D

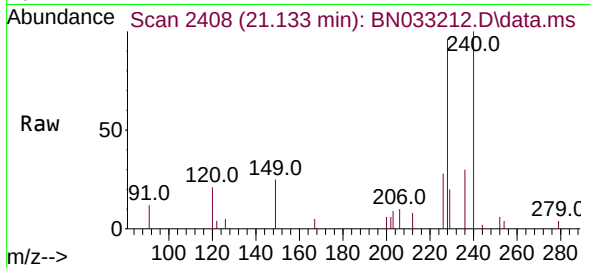
Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

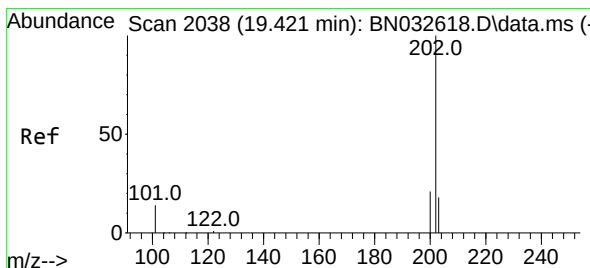
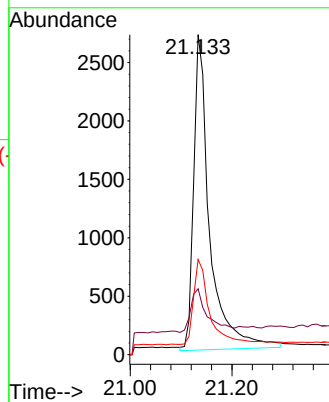
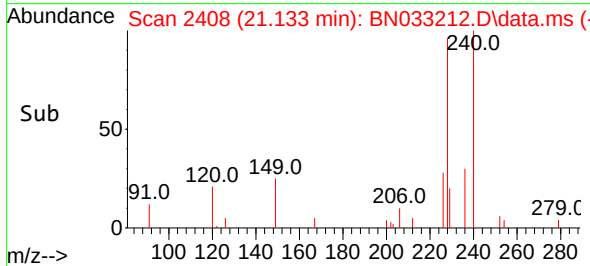


Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.6	14.8	22.2
236	29.8	23.3	34.9

Manual Integrations
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Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

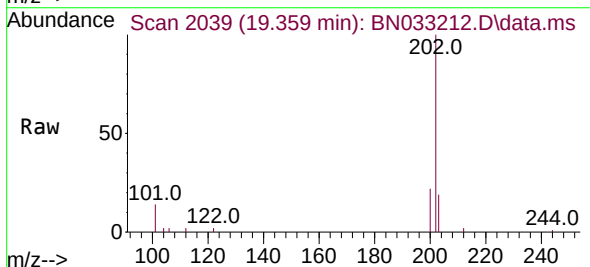
Concen: 0.391 ng

RT: 19.359 min Scan# 2039

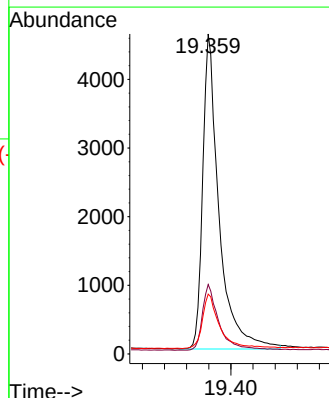
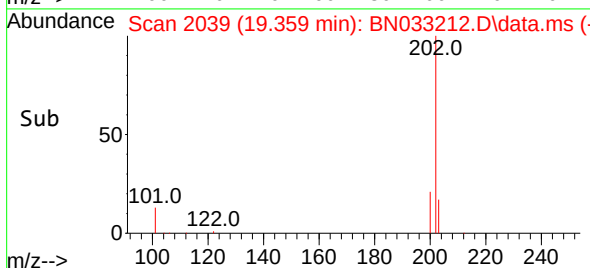
Delta R.T. 0.000 min

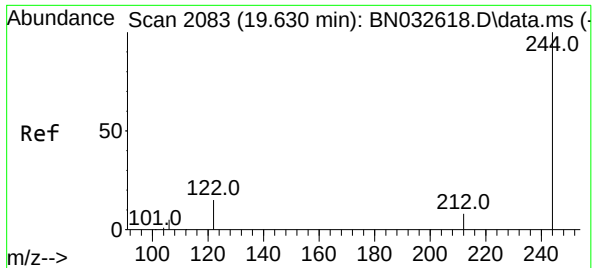
Lab File: BN033212.D

Acq: 02 Aug 2024 20:59



Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.6	25.0
203	18.4	14.8	22.2





#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.563 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

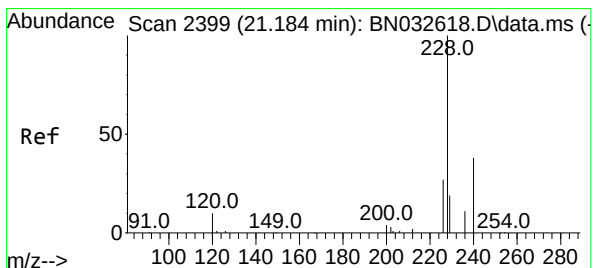
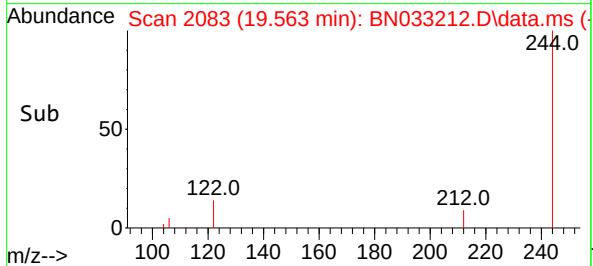
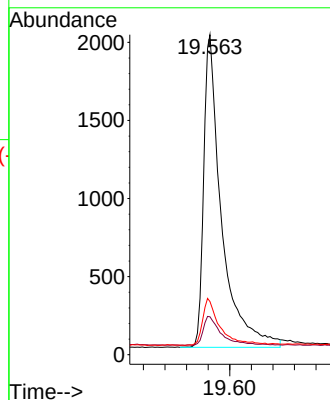
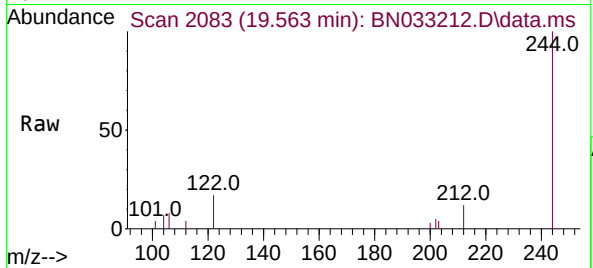
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.9	7.5	11.3
122	16.6	12.6	19.0

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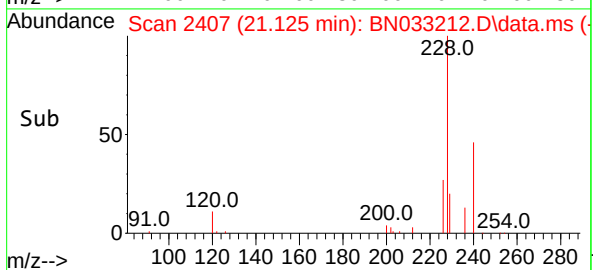
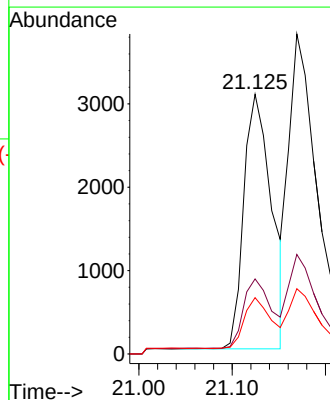
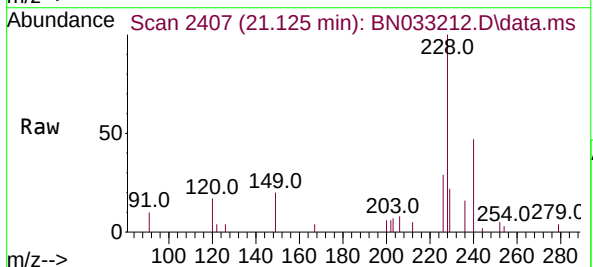
APPROVED

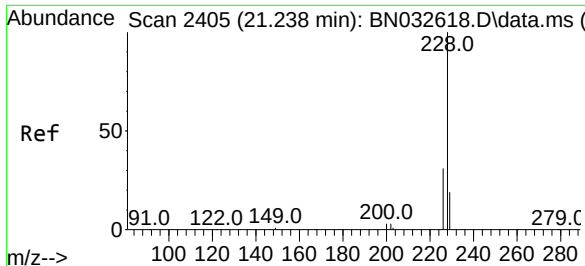
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.341 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	21.8	32.6
229	21.7	16.0	24.0





#33

Chrysene

Concen: 0.370 ng

RT: 21.169 min Scan# 2405

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

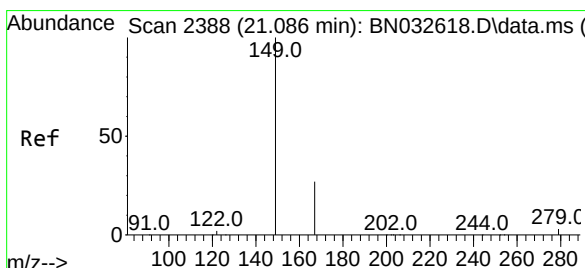
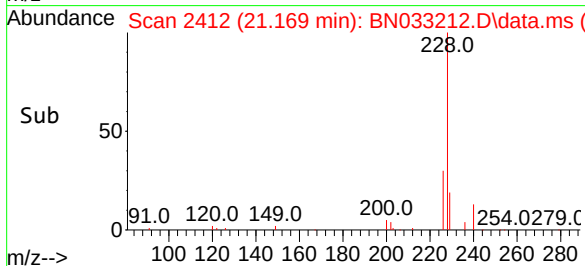
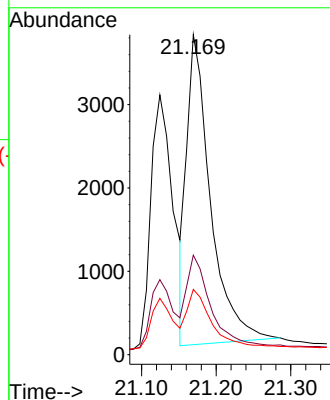
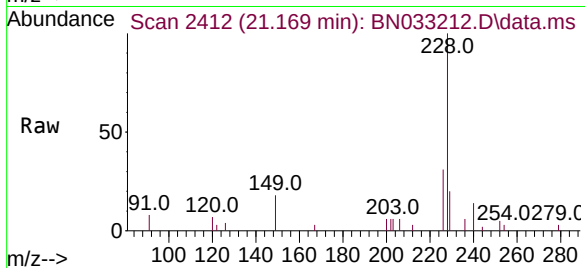
SSTDCCC0.4

Tgt Ion:	228	Resp:	819
Ion Ratio	Lower	Upper	
228	100		
226	31.1	24.2	36.2
229	20.4	16.0	24.0

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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.473 ng

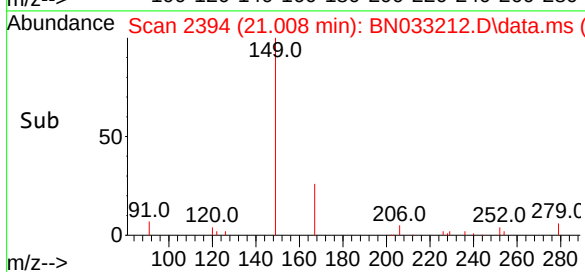
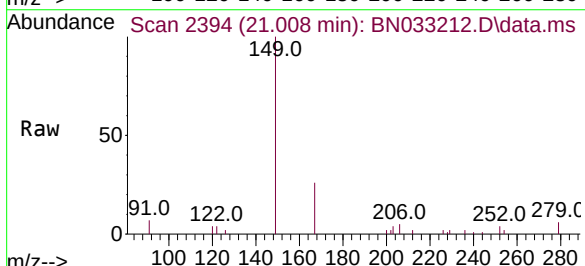
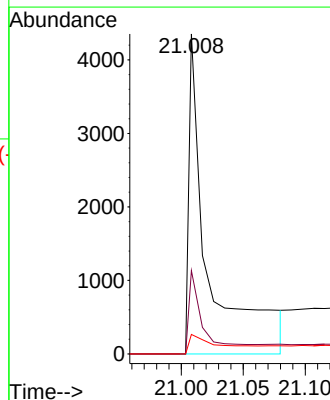
RT: 21.008 min Scan# 2394

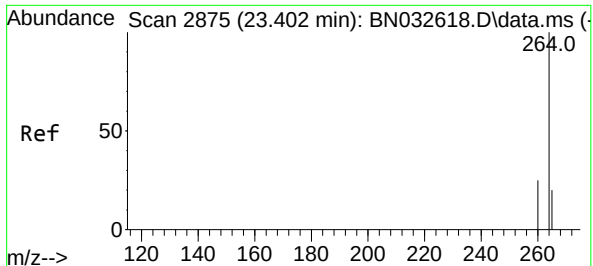
Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Tgt Ion:	149	Resp:	4875
Ion Ratio	Lower	Upper	
149	100		
167	21.2	21.4	32.2#
279	9.9	2.8	4.2#





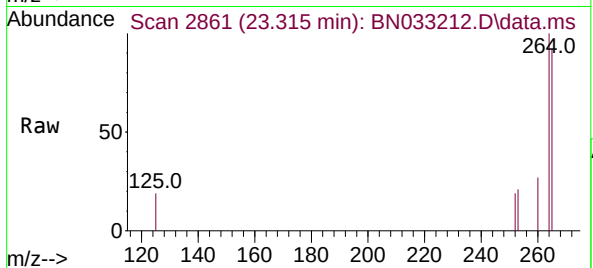
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

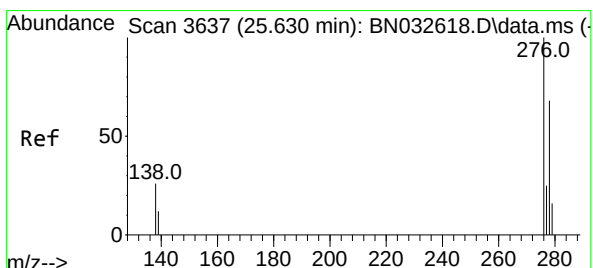
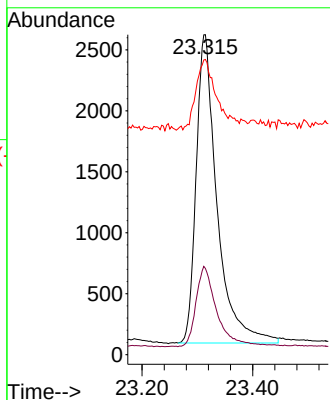
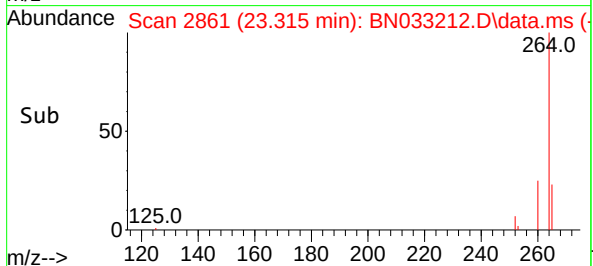
SSTDCCC0.4



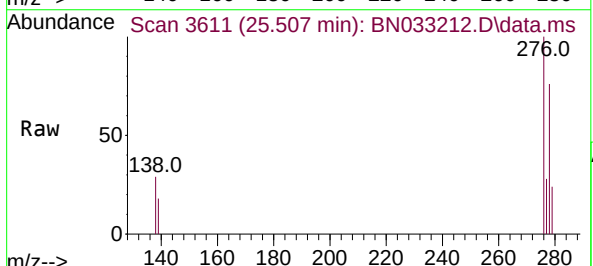
Tgt Ion:264 Resp: 6630
Ion Ratio Lower Upper
264 100
260 26.9 20.9 31.3
265 92.2 85.4 128.2

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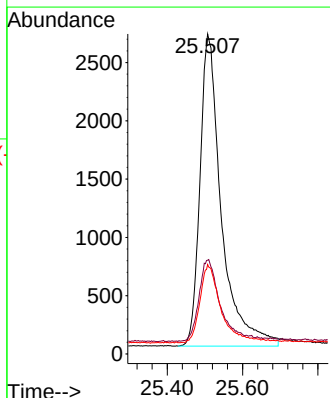
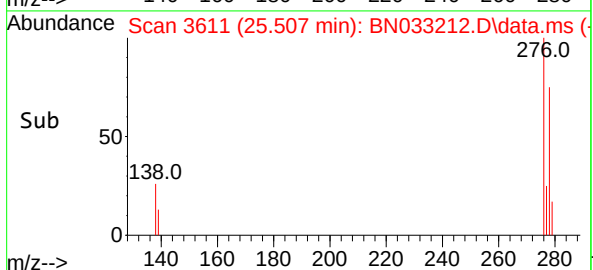
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

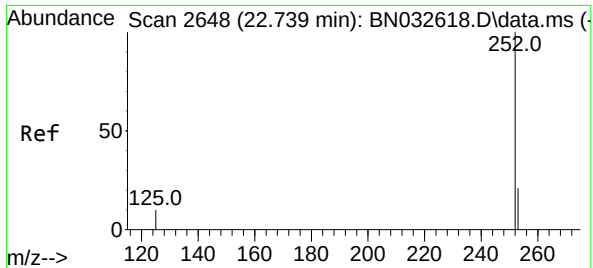


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.403 ng
RT: 25.507 min Scan# 3611
Delta R.T. 0.000 min
Lab File: BN033212.D
Acq: 02 Aug 2024 20:59



Tgt Ion:276 Resp: 10540
Ion Ratio Lower Upper
276 100
138 25.9 21.0 31.4
277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.317 ng m

RT: 22.660 min Scan# 2637

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 733

Ion Ratio Lower Upper

252 100

253 31.7 22.3 33.5

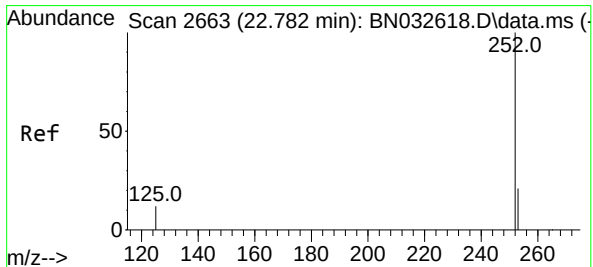
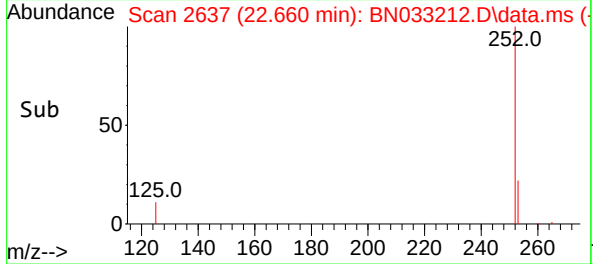
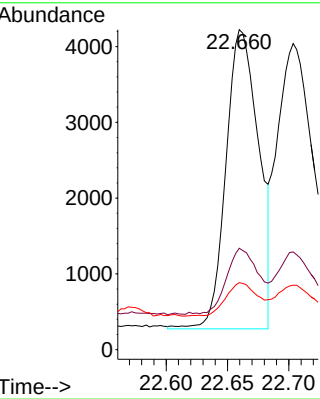
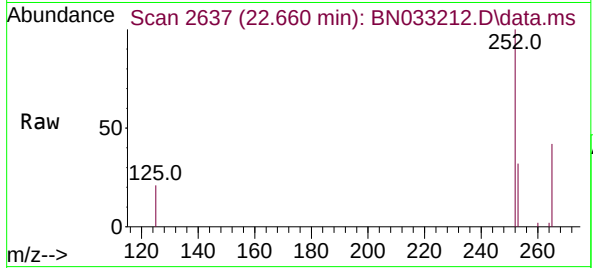
125 20.9 15.4 23.2

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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.331 ng

RT: 22.703 min Scan# 2652

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

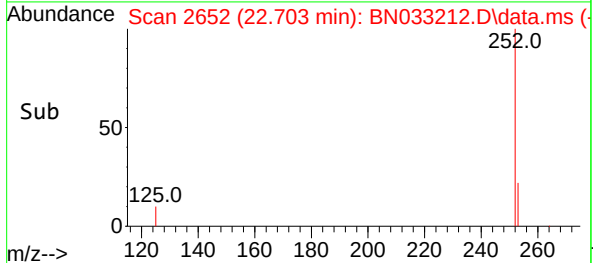
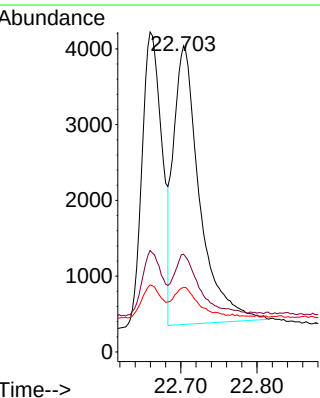
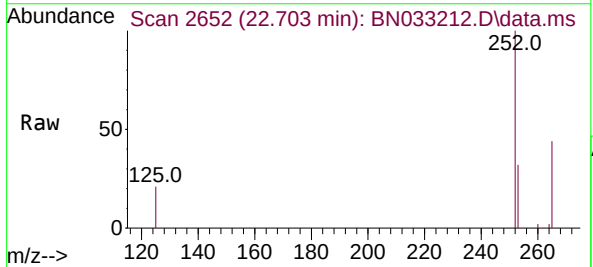
Tgt Ion:252 Resp: 8750

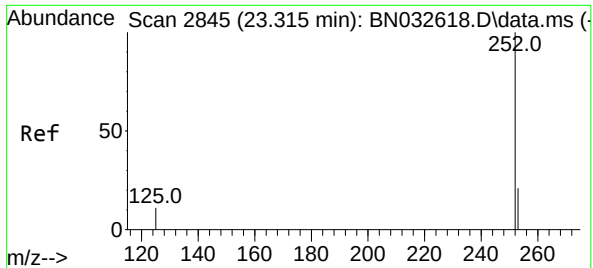
Ion Ratio Lower Upper

252 100

253 31.9 22.6 34.0

125 21.1 16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.350 ng

RT: 23.224 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

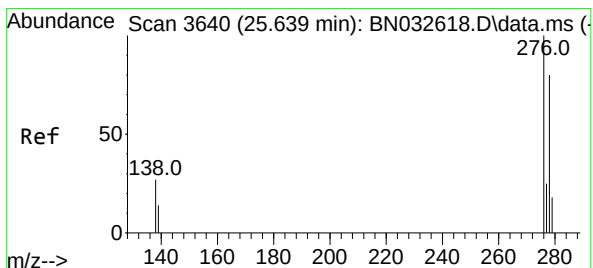
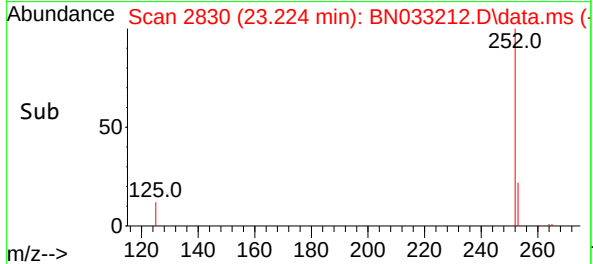
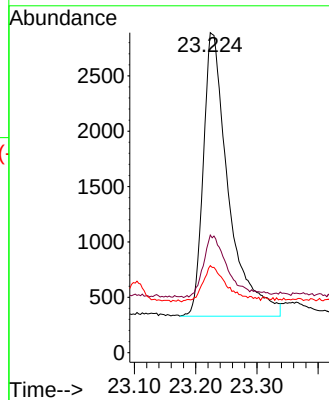
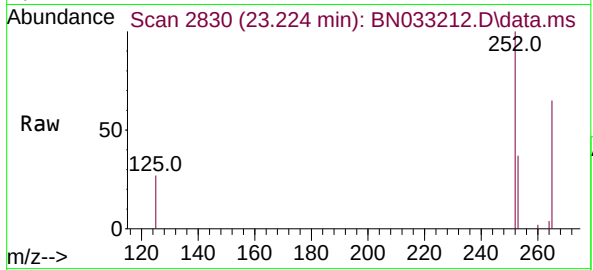
Tgt Ion:	252	Resp:	729
Ion Ratio	Lower	Upper	
252	100		
253	36.7	25.8	38.8
125	27.2	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.399 ng

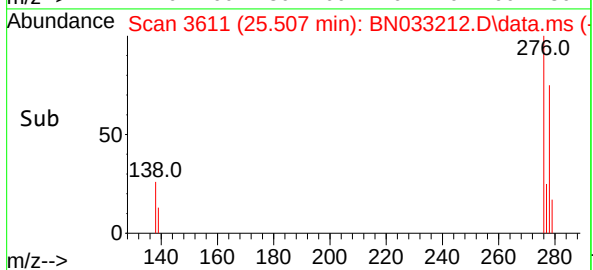
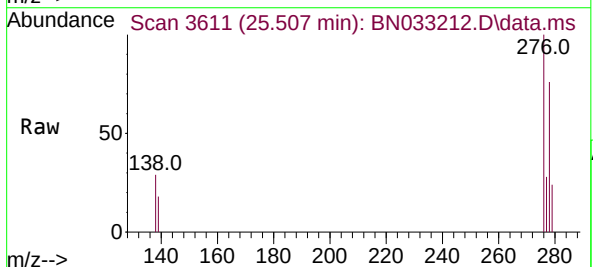
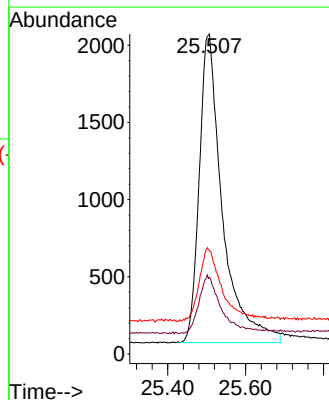
RT: 25.507 min Scan# 3611

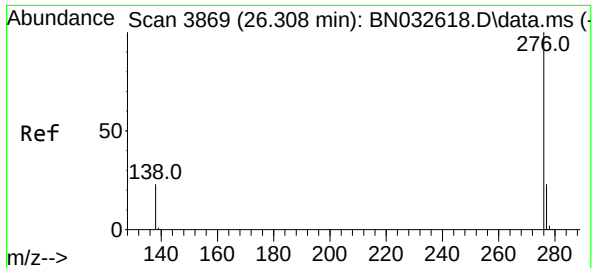
Delta R.T. 0.000 min

Lab File: BN033212.D

Acq: 02 Aug 2024 20:59

Tgt Ion:	278	Resp:	8249
Ion Ratio	Lower	Upper	
278	100		
139	24.0	16.7	25.1
279	32.3	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.404 ng

RT: 26.177 min Scan# 3840

Delta R.T. 0.000 min

Lab File: BN033212.D

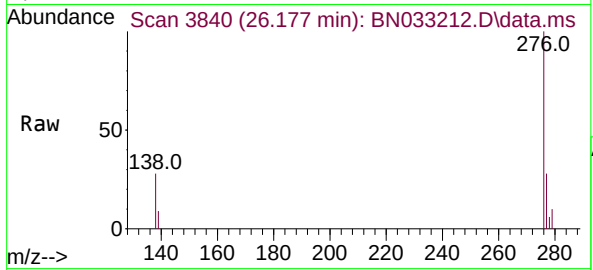
Acq: 02 Aug 2024 20:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:276 Resp: 924

Ion Ratio Lower Upper

276 100

277 27.9 20.2 30.2

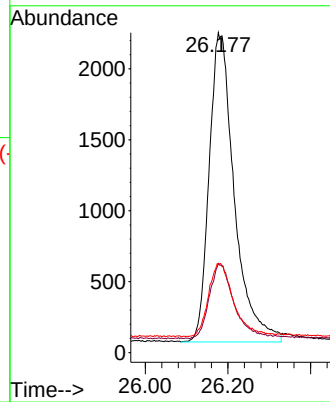
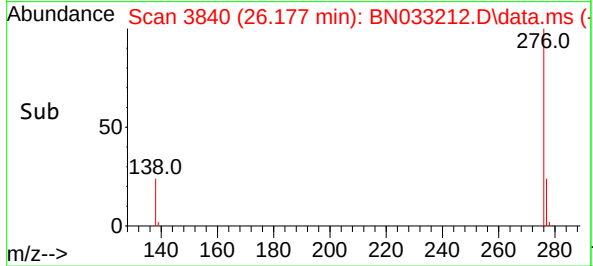
138 27.8 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033212.D
Acq On : 02 Aug 2024 20:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 03 01:10:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	59	0.00
2	1,4-Dioxane	0.496	0.514	-3.6	61	0.00
3	n-Nitrosodimethylamine	0.419	0.453	-8.1	64	0.00
4 S	2-Fluorophenol	1.012	1.024	-1.2	58	0.00
5 S	Phenol-d6	1.256	1.543	-22.9	73	0.00
6	bis(2-Chloroethyl)ether	1.050	0.918	12.6	51	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	67	0.00
8 S	Nitrobenzene-d5	0.301	0.290	3.7	67	0.00
9	Naphthalene	1.108	1.052	5.1	64	0.00
10	Hexachlorobutadiene	0.212	0.199	6.1	62	0.00
11 SURR	2-Methylnaphthalene-d10	0.612	0.526	14.1	59	0.00
12	2-Methylnaphthalene	0.724	0.585	19.2	56	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	53	0.00
14 S	2,4,6-Tribromophenol	0.171	0.105	38.6#	37#	0.00
15 S	2-Fluorobiphenyl	1.489	1.485	0.3	53	0.00
16	Acenaphthylene	1.627	1.648	-1.3	59	0.00
17	Acenaphthene	1.153	1.110	3.7	52	0.00
18	Fluorene	1.541	1.340	13.0	47#	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	45#	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.011	80.4#	14#	0.00
21	4-Bromophenyl-phenylether	0.235	0.214	8.9	42#	0.00
22	Hexachlorobenzene	0.263	0.241	8.4	42#	0.00
23	Atrazine	0.173	0.164	5.2	47#	0.00
24	Pentachlorophenol	0.098	0.053	45.9#	29#	0.00
25	Phenanthrene	1.093	0.954	12.7	41#	0.00
26	Anthracene	0.900	0.859	4.6	49#	0.00
27 SURR	Fluoranthene-d10	1.035	0.844	18.5	38#	0.00
28	Fluoranthene	1.323	1.063	19.7	38#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	42#	0.00
30	Pyrene	1.634	1.596	2.3	40#	0.00
31 S	Terphenyl-d14	0.820	0.779	5.0	39#	0.00
32	Benzo(a)anthracene	1.265	1.078	14.8	38#	0.00
33	Chrysene	1.504	1.391	7.5	38#	0.00
34	Bis(2-ethylhexyl)phthalate	0.700	0.827	-18.1	58	0.00
35 I	Perylene-d12	1.000	1.000	0.0	50	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.588	-0.7	52	0.00
37	Benzo(b)fluoranthene	1.393	1.106	20.6	42#	0.00
38	Benzo(k)fluoranthene	1.592	1.319	17.1	42#	0.00
39 C	Benzo(a)pyrene	1.256	1.099	12.5	46#	0.00
40	Dibenzo(a,h)anthracene	1.245	1.243	0.2	51	0.00
41	Benzo(g,h,i)perylene	1.379	1.393	-1.0	51	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033212.D
Acq On : 02 Aug 2024 20:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 03 01:10:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	59	0.00
2	1,4-Dioxane	0.400	0.415	-3.7	61	0.00
3	n-Nitrosodimethylamine	0.400	0.433	-8.2	64	0.00
4 S	2-Fluorophenol	0.400	0.405	-1.3	58	0.00
5 S	Phenol-d6	0.400	0.491	-22.7	73	0.00
6	bis(2-Chloroethyl)ether	0.400	0.350	12.5	51	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	67	0.00
8 S	Nitrobenzene-d5	0.400	0.385	3.8	67	0.00
9	Naphthalene	0.400	0.380	5.0	64	0.00
10	Hexachlorobutadiene	0.400	0.376	6.0	62	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.344	14.0	59	0.00
12	2-Methylnaphthalene	0.400	0.323	19.3	56	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	53	0.00
14 S	2,4,6-Tribromophenol	0.400	0.246	38.5#	37	0.00
15 S	2-Fluorobiphenyl	0.400	0.399	0.3	53	0.00
16	Acenaphthylene	0.400	0.405	-1.3	59	0.00
17	Acenaphthene	0.400	0.385	3.8	52	0.00
18	Fluorene	0.400	0.348	13.0	47	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	45	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.341	14.8	14	0.00
21	4-Bromophenyl-phenylether	0.400	0.364	9.0	42	0.00
22	Hexachlorobenzene	0.400	0.367	8.3	42	0.00
23	Atrazine	0.400	0.379	5.3	47	0.00
24	Pentachlorophenol	0.400	0.217	45.8#	29	0.00
25	Phenanthrene	0.400	0.349	12.8	41	0.00
26	Anthracene	0.400	0.382	4.5	49	0.00
27 SURR	Fluoranthene-d10	0.400	0.326	18.5	38	0.00
28	Fluoranthene	0.400	0.322	19.5	38	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	42	0.00
30	Pyrene	0.400	0.391	2.3	40	0.00
31 S	Terphenyl-d14	0.400	0.380	5.0	39	0.00
32	Benzo(a)anthracene	0.400	0.341	14.8	38	0.00
33	Chrysene	0.400	0.370	7.5	38	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.473	-18.2	58	0.00
35 I	Perylene-d12	0.400	0.400	0.0	50	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.403	-0.8	52	0.00
37	Benzo(b)fluoranthene	0.400	0.317	20.8	42	0.00
38	Benzo(k)fluoranthene	0.400	0.331	17.3	42	0.00
39 C	Benzo(a)pyrene	0.400	0.350	12.5	46	0.00
40	Dibenzo(a,h)anthracene	0.400	0.399	0.3	51	0.00
41	Benzo(g,h,i)perylene	0.400	0.404	-1.0	51	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: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: P3426 SAS No.: P3426 SDG No.: P3426

Instrument ID: BNA_N Calibration Date/Time: 08/03/2024 07:59

Lab File ID: BN033228.D Init. Calib. Date(s): 07/10/2024 07/10/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 15:54 19:32

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.612	0.548		-10.5	20.0
Fluoranthene-d10	1.035	0.846		-18.3	20.0
2-Fluorophenol	1.012	0.980		-3.2	20.0
Phenol-d6	1.256	1.220		-2.9	20.0
Nitrobenzene-d5	0.301	0.293		-2.7	20.0
Naphthalene	1.108	1.046		-5.6	20.0
2-Methylnaphthalene	0.724	0.605		-16.4	20.0
2-Fluorobiphenyl	1.489	1.432		-3.8	20.0
Acenaphthylene	1.627	1.592		-2.2	20.0
Acenaphthene	1.153	1.123		-2.6	20.0
Fluorene	1.541	1.414		-8.3	20.0
2,4,6-Tribromophenol	0.171	0.112		-34.5	20.0
Phenanthrene	1.093	0.994		-9.1	20.0
Anthracene	0.900	0.809		-10.1	20.0
Fluoranthene	1.323	1.067		-19.4	20.0
Pyrene	1.634	1.752		7.2	20.0
Terphenyl-d14	0.820	0.856		4.4	20.0
Benzo (a) anthracene	1.265	1.013		-19.9	20.0
Chrysene	1.504	1.600		6.4	20.0
Benzo (b) fluoranthene	1.393	1.112		-20.2	20.0
Benzo (k) fluoranthene	1.592	1.356		-14.8	20.0
Benzo (a) pyrene	1.256	1.090		-13.2	20.0
Indeno (1,2,3-cd) pyrene	1.577	1.448		-8.2	20.0
Dibenzo (a,h) anthracene	1.245	1.136		-8.8	20.0
Benzo (g,h,i) perylene	1.379	1.307		-5.2	20.0
1,4-Dioxane	0.496	0.550		10.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033228.D
 Acq On : 03 Aug 2024 07:59
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:25:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.495	152	2923	0.400	ng	0.00
7) Naphthalene-d8	10.287	136	10082	0.400	ng	# 0.00
13) Acenaphthene-d10	14.133	164	5809	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	11229	0.400	ng	# 0.00
29) Chrysene-d12	21.140	240	7084	0.400	ng	0.00
35) Perylene-d12	23.315	264	8355	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	2865m	0.387	ng	0.00
5) Phenol-d6	6.860	99	3565	0.388	ng	-0.02
8) Nitrobenzene-d5	8.813	82	2949	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.901	152	5525	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.711	330	648	0.261	ng	0.00
15) 2-Fluorobiphenyl	12.786	172	8319	0.385	ng	0.00
27) Fluoranthene-d10	18.962	212	9505	0.327	ng	0.00
31) Terphenyl-d14	19.566	244	6066	0.418	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.083	88	1607	0.444	ng	# 84
3) n-Nitrosodimethylamine	3.465	42	1427	0.466	ng	# 78
6) bis(2-Chloroethyl)ether	7.012	93	2586	0.337	ng	90
9) Naphthalene	10.329	128	10548	0.378	ng	99
10) Hexachlorobutadiene	10.522	225	2011	0.377	ng	# 100
12) 2-Methylnaphthalene	11.976	142	6101	0.334	ng	# 95
16) Acenaphthylene	13.866	152	9247	0.391	ng	99
17) Acenaphthene	14.197	154	6521	0.389	ng	99
18) Fluorene	15.213	166	8211	0.367	ng	98
20) 4,6-Dinitro-2-methylph...	15.549	198	142	0.351	ng	# 1
21) 4-Bromophenyl-phenylether	16.108	248	2423	0.367	ng	93
22) Hexachlorobenzene	16.207	284	2575	0.349	ng	# 87
23) Atrazine	16.418	200	1812	0.373	ng	99
24) Pentachlorophenol	16.629	266	593	0.216	ng	97
25) Phenanthrene	16.964	178	11157	0.364	ng	99
26) Anthracene	17.076	178	9086m	0.360	ng	
28) Fluoranthene	18.994	202	11985	0.323	ng	99
30) Pyrene	19.361	202	12412	0.429	ng	99
32) Benzo(a)anthracene	21.131	228	7176m	0.320	ng	
33) Chrysene	21.176	228	11331	0.426	ng	98
34) Bis(2-ethylhexyl)phtha...	21.006	149	5406	0.436	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.514	276	12098	0.367	ng	100
37) Benzo(b)fluoranthene	22.666	252	9290m	0.319	ng	
38) Benzo(k)fluoranthene	22.707	252	11329	0.341	ng	98
39) Benzo(a)pyrene	23.233	252	9108	0.347	ng	97
40) Dibenzo(a,h)anthracene	25.511	278	9491	0.365	ng	98
41) Benzo(g,h,i)perylene	26.189	276	10919	0.379	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033228.D
 Acq On : 03 Aug 2024 07:59
 Operator : MA/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :

BNA_N

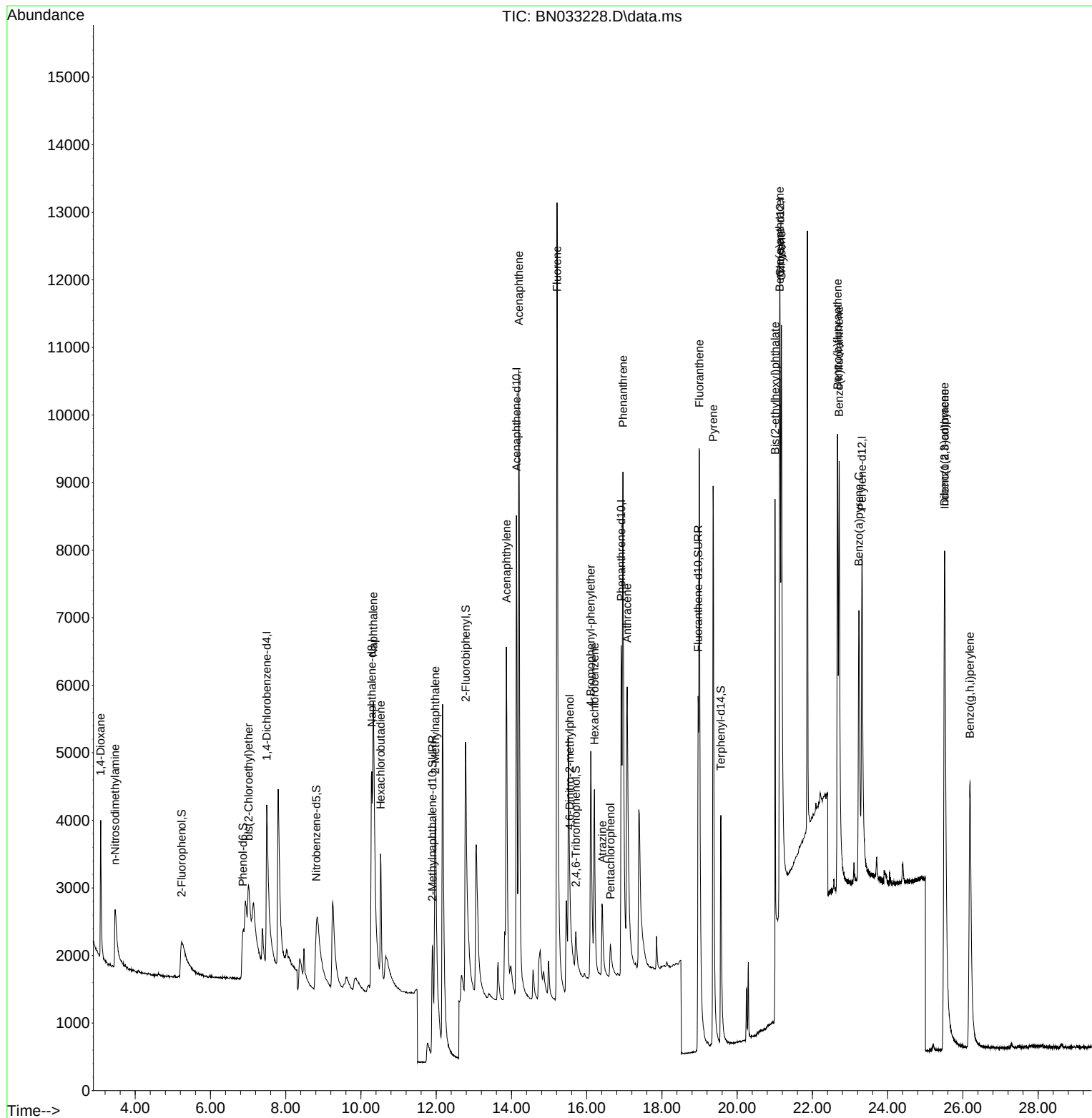
ClientSampleId :

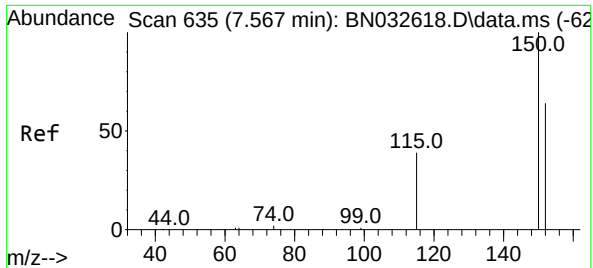
SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 05 03:25:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration





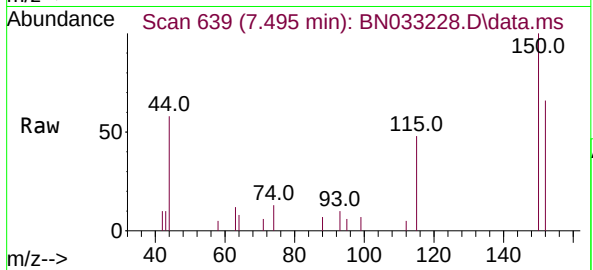
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.495 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

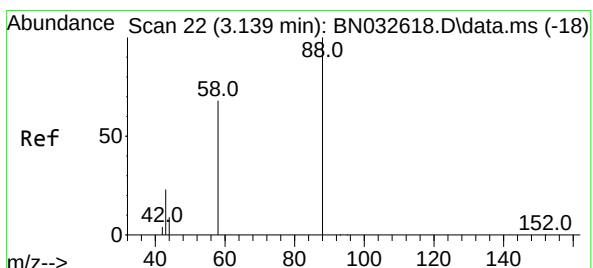
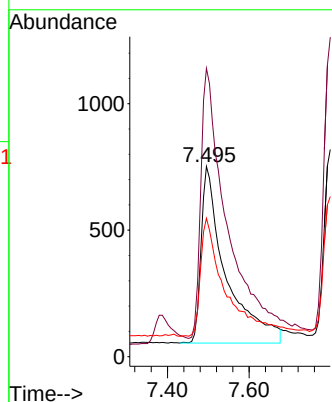
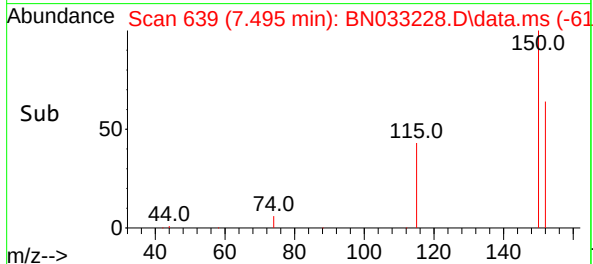


Tgt Ion: 152 Resp: 292
Ion Ratio Lower Upper
152 100
150 151.6 123.8 185.6
115 72.7 52.8 79.2

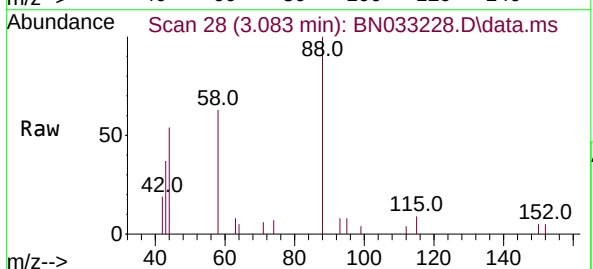
Manual Integrations

APPROVED

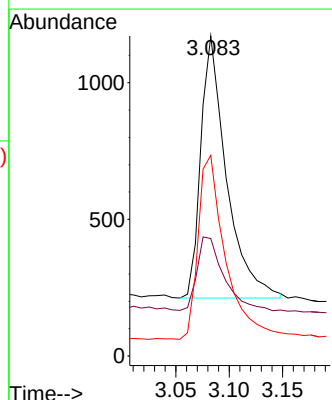
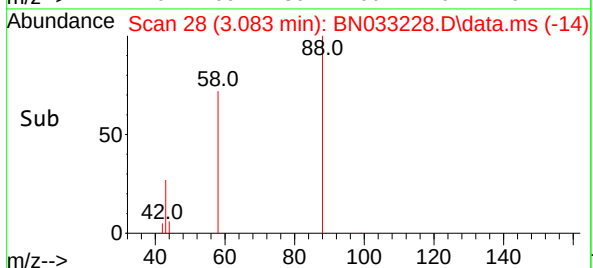
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

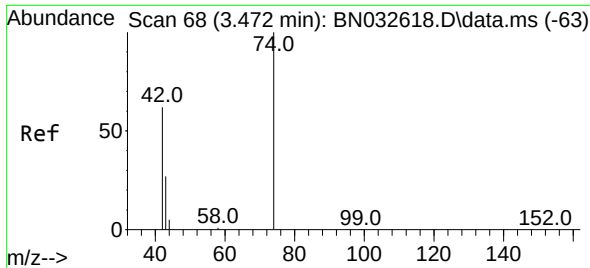


#2
1,4-Dioxane
Concen: 0.444 ng
RT: 3.083 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



Tgt Ion: 88 Resp: 1607
Ion Ratio Lower Upper
88 100
43 29.2 18.4 27.6#
58 74.4 49.2 73.8#





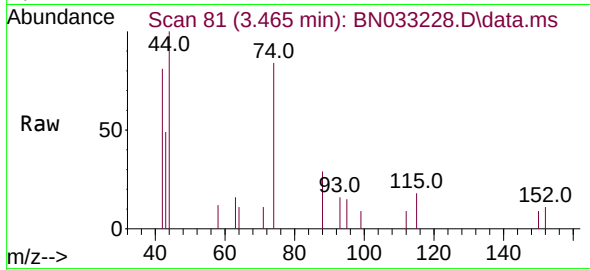
#3
n-Nitrosodimethylamine
Concen: 0.466 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

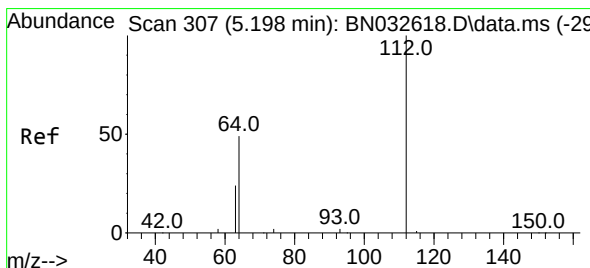
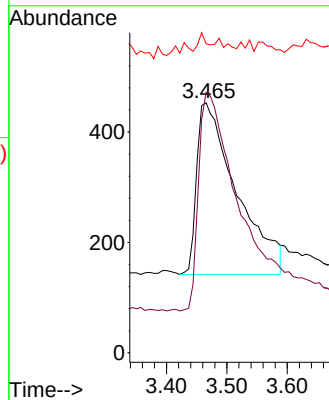
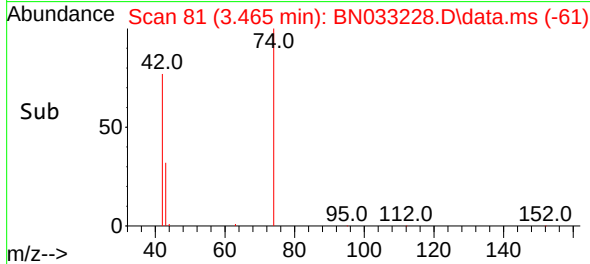
SSTDCCC0.4



Tgt Ion: 42 Resp: 142
Ion Ratio Lower Upper
42 100
74 129.2 126.9 190.3
44 2.2 4.8 7.2

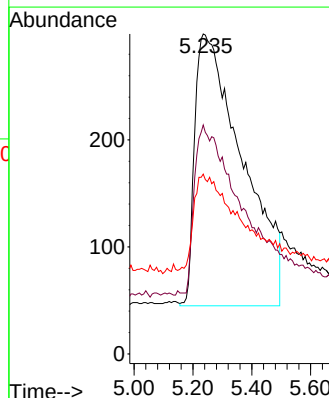
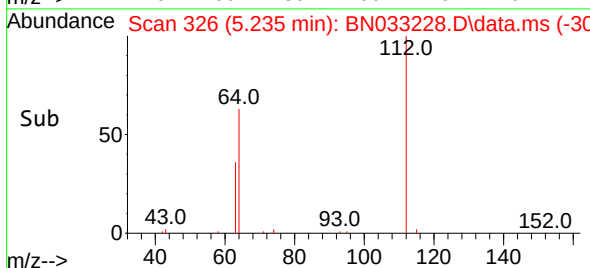
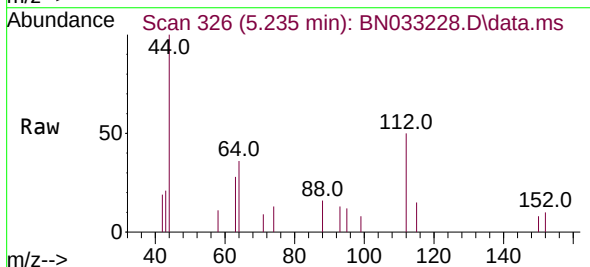
Manual Integrations
APPROVED

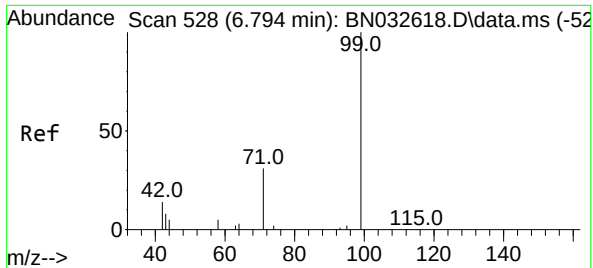
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.387 ng m
RT: 5.235 min Scan# 326
Delta R.T. -0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

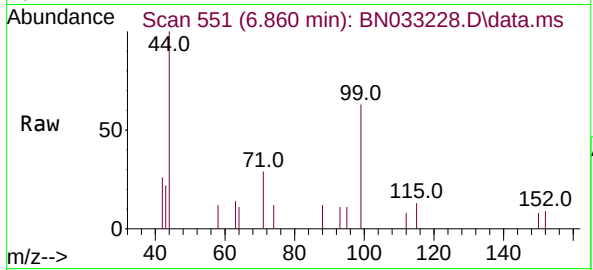
Tgt Ion:112 Resp: 2865
Ion Ratio Lower Upper
112 100
64 49.8 40.2 60.4
63 29.3 22.2 33.4





#5
Phenol-d6
Concen: 0.388 ng
RT: 6.860 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

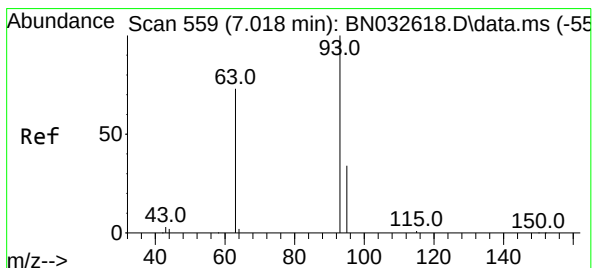
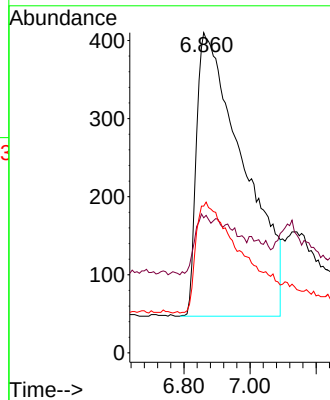
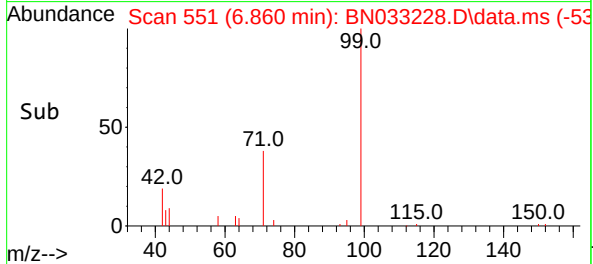
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion: 99 Resp: 356
Ion Ratio Lower Upper
99 100
42 7.1 10.5 15.7
71 39.2 22.3 33.5

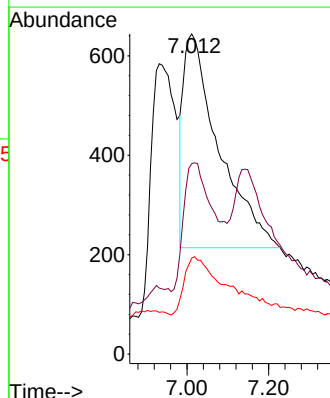
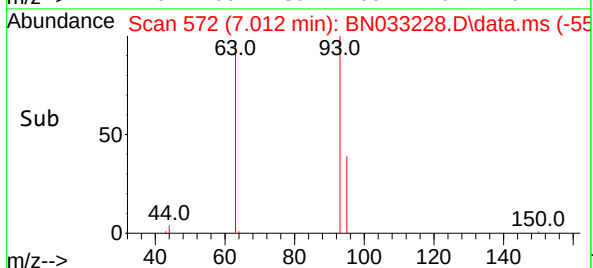
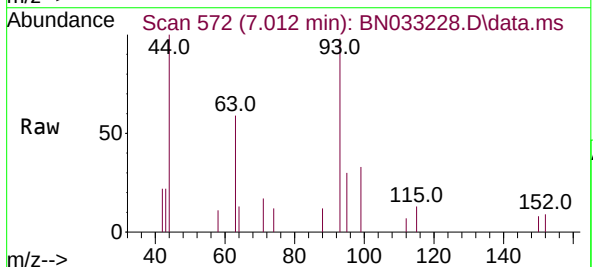
Manual Integrations
APPROVED

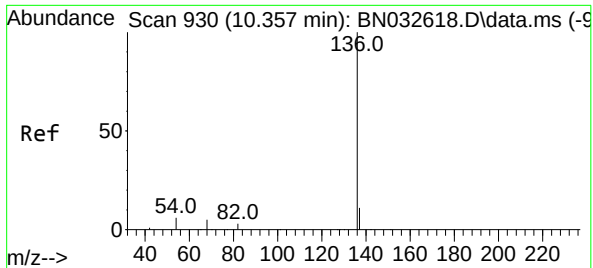
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion: 93 Resp: 2586
Ion Ratio Lower Upper
93 100
63 48.5 46.4 69.6
95 34.4 25.5 38.3





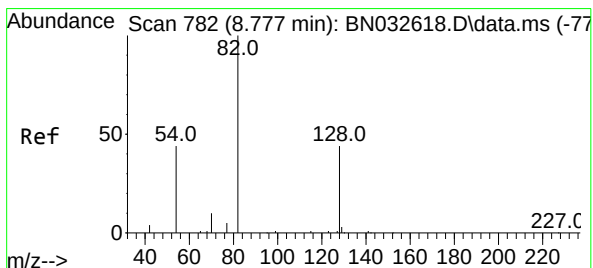
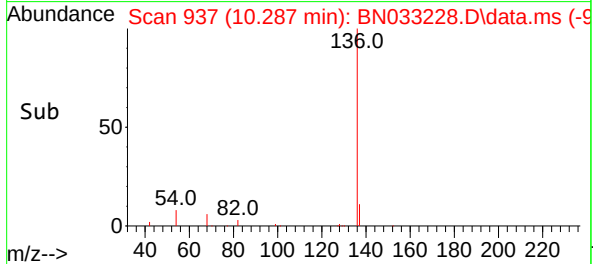
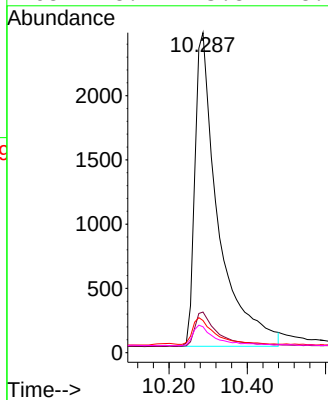
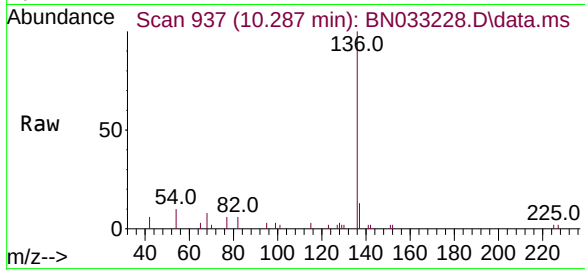
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.287 min Scan# 910
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:	136	Resp:	1008
Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.9	14.9
54	10.0	6.5	9.7
68	8.1	5.8	8.8

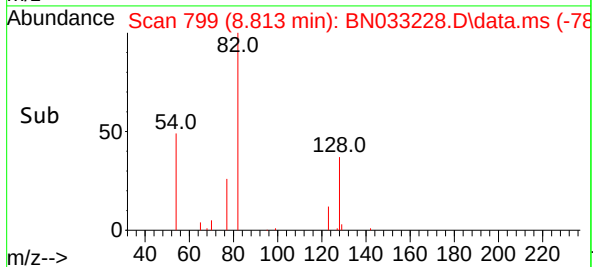
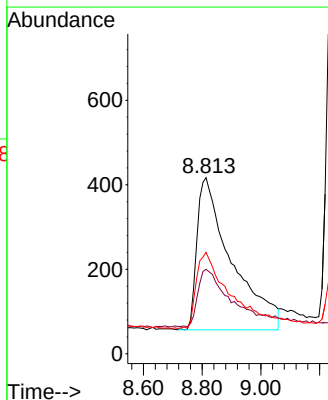
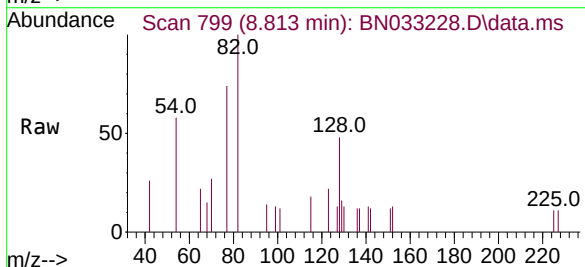
Manual Integrations
APPROVED

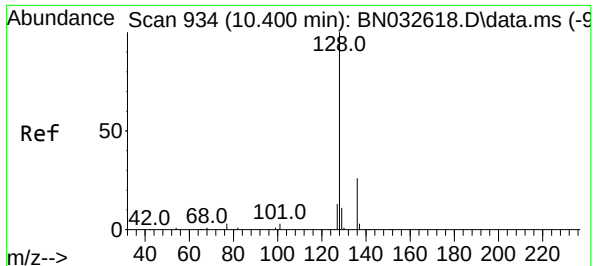
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.813 min Scan# 799
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:	82	Resp:	2949
Ion	Ratio	Lower	Upper
82	100		
128	48.0	41.7	62.5
54	57.6	39.5	59.3





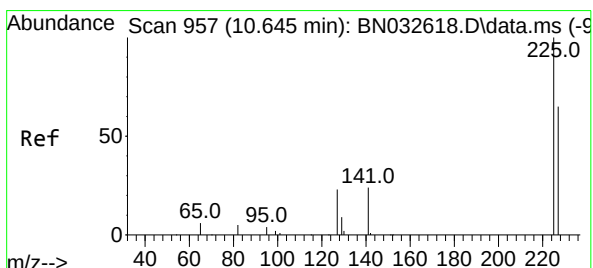
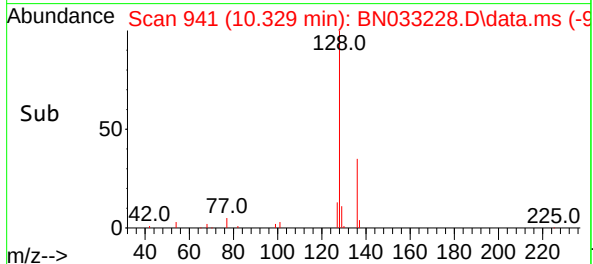
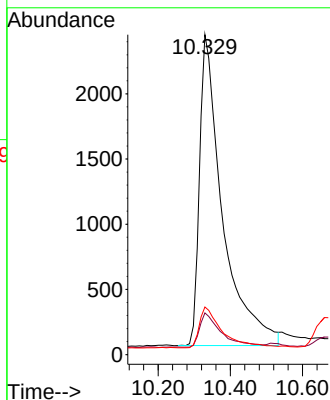
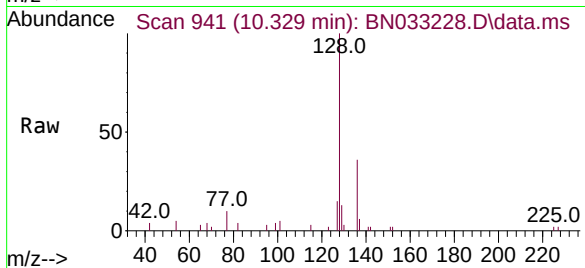
#9
Naphthalene
Concen: 0.378 ng
RT: 10.329 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 1054
Ion Ratio Lower Upper
128 100
129 13.0 9.8 14.8
127 14.9 11.5 17.3

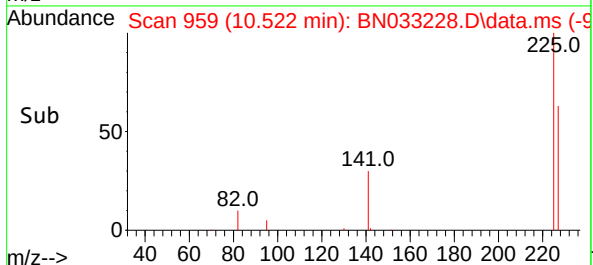
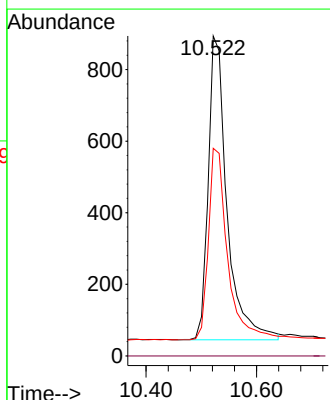
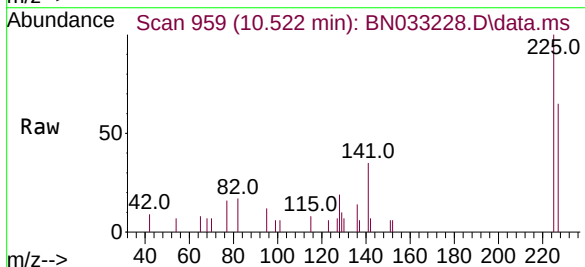
Manual Integrations
APPROVED

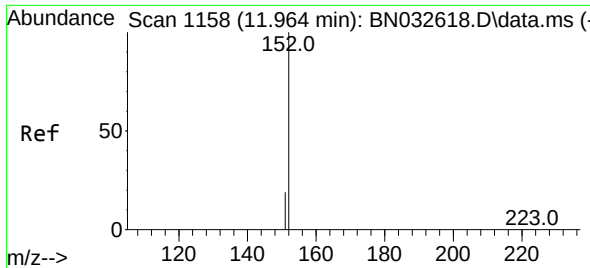
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.522 min Scan# 959
Delta R.T. -0.011 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

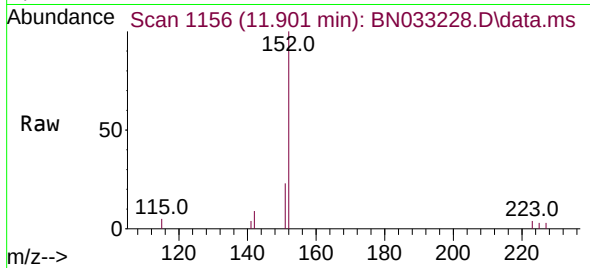
Tgt Ion:225 Resp: 2011
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.3 76.9





#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.901 min Scan# 1156
Delta R.T. -0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

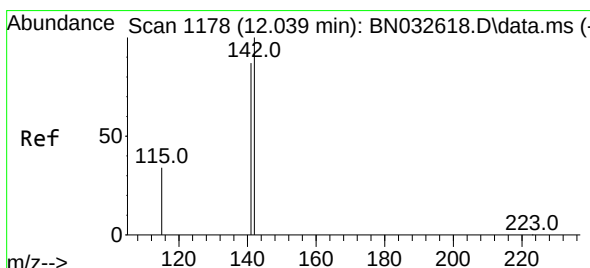
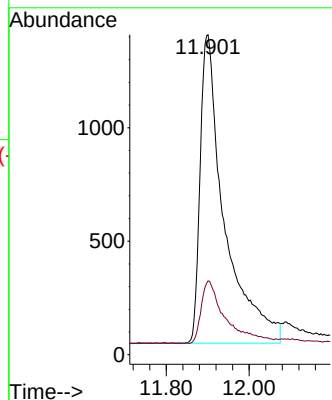
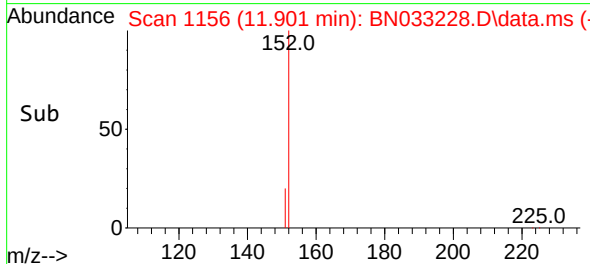
Instrument :
BNA_N
ClientSampleId :
SSTDC0.4



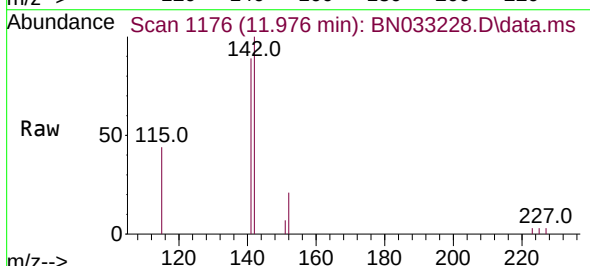
Tgt Ion:152 Resp: 552
Ion Ratio Lower Upper
152 100
151 20.4 16.2 24.2

Manual Integrations
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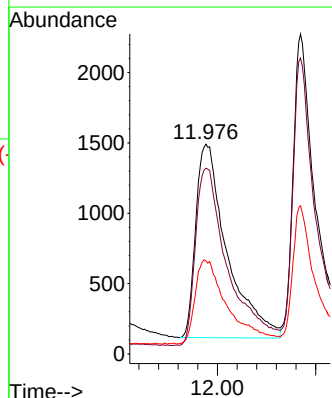
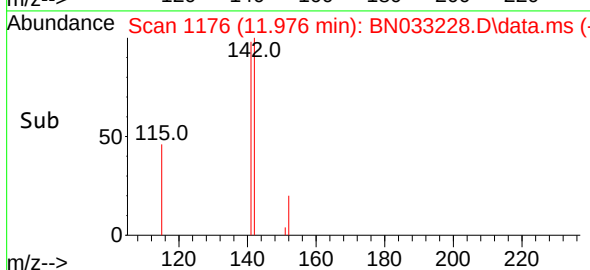
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

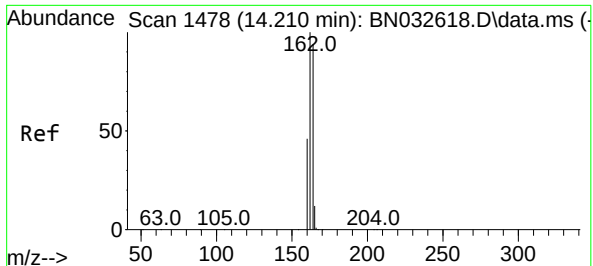


#12
2-Methylnaphthalene
Concen: 0.334 ng
RT: 11.976 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



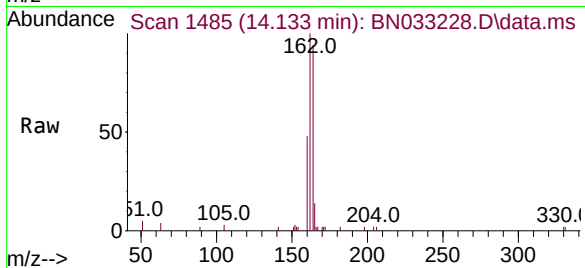
Tgt Ion:142 Resp: 6101
Ion Ratio Lower Upper
142 100
141 88.5 69.3 103.9
115 44.5 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.133 min Scan# 1478
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

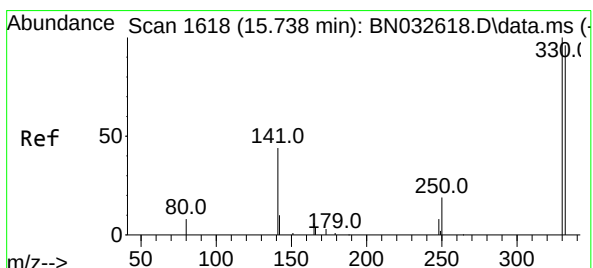
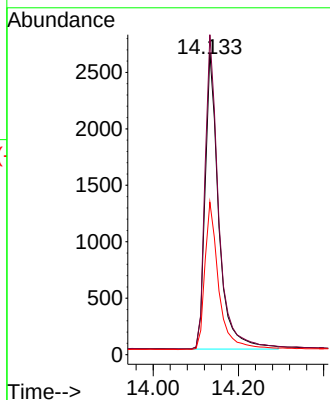
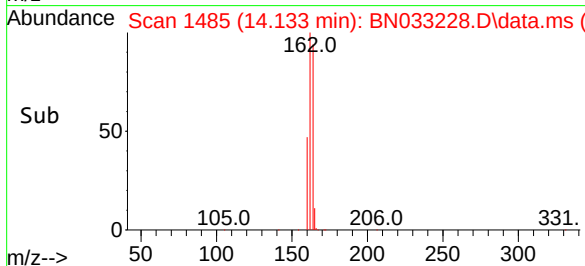
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



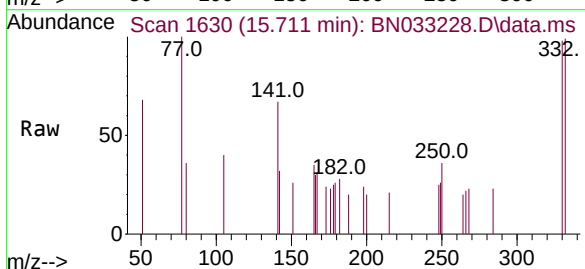
Tgt Ion:164 Resp: 5809
Ion Ratio Lower Upper
164 100
162 106.1 85.0 127.4
160 50.6 39.4 59.2

Manual Integrations
APPROVED

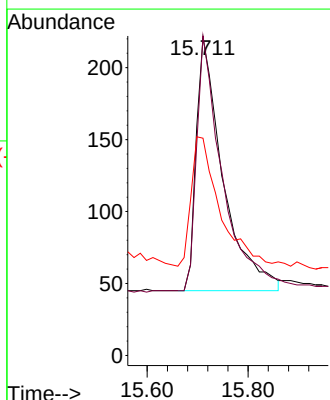
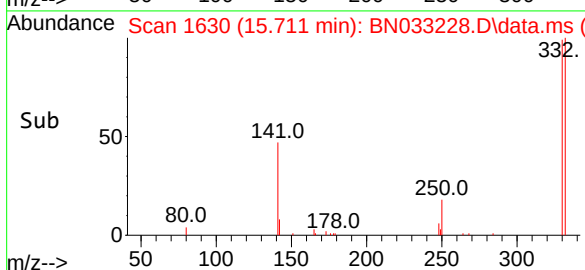
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

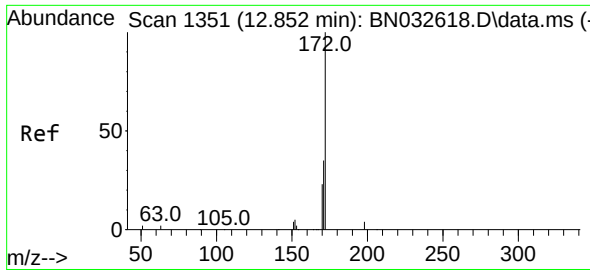


#14
2,4,6-Tribromophenol
Concen: 0.261 ng
RT: 15.711 min Scan# 1630
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



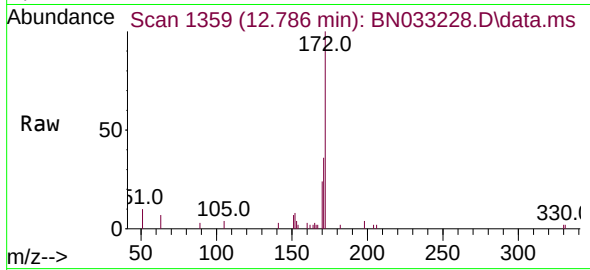
Tgt Ion:330 Resp: 648
Ion Ratio Lower Upper
330 100
332 97.1 77.8 116.8
141 54.3 34.2 51.2#





#15
2-Fluorobiphenyl
Concen: 0.385 ng
RT: 12.786 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

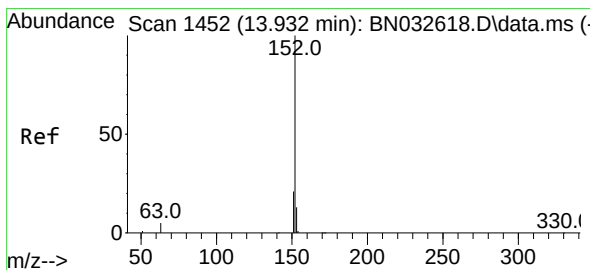
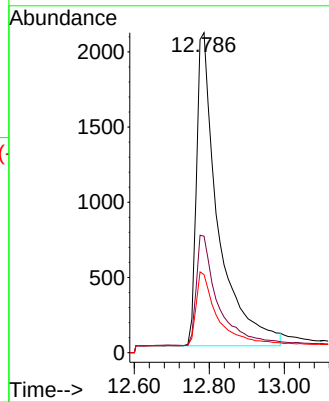
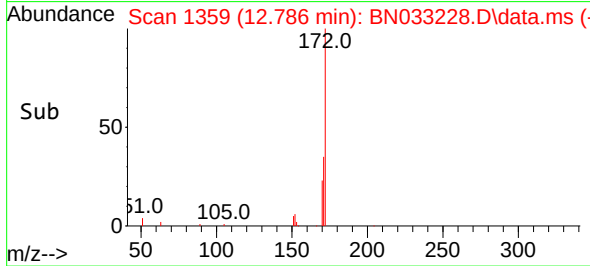
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 8319
Ion Ratio Lower Upper
172 100
171 36.4 28.6 43.0
170 24.4 19.0 28.6

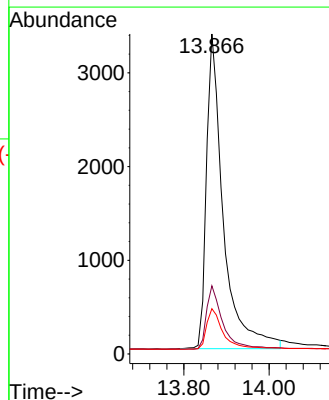
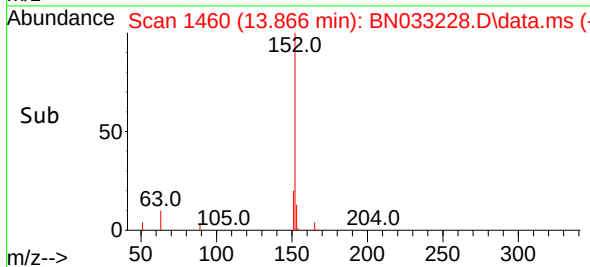
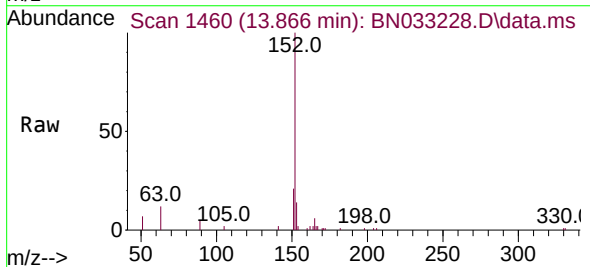
Manual Integrations
APPROVED

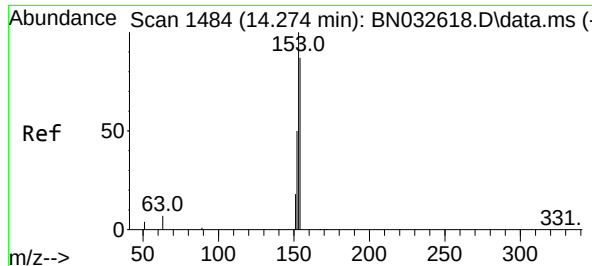
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.866 min Scan# 1460
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

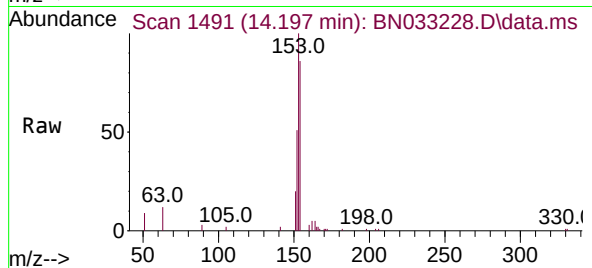
Tgt Ion:152 Resp: 9247
Ion Ratio Lower Upper
152 100
151 19.4 16.0 24.0
153 12.8 10.6 15.8





#17
Acenaphthene
Concen: 0.389 ng
RT: 14.197 min Scan# 1484
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

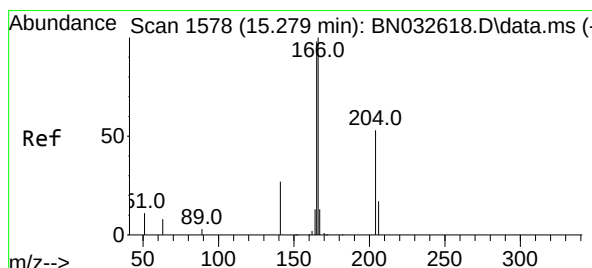
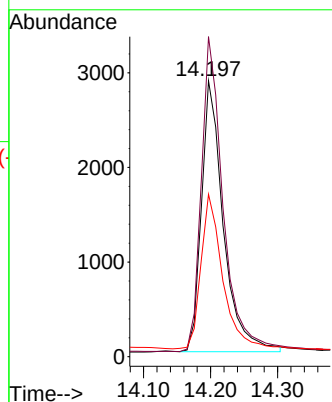
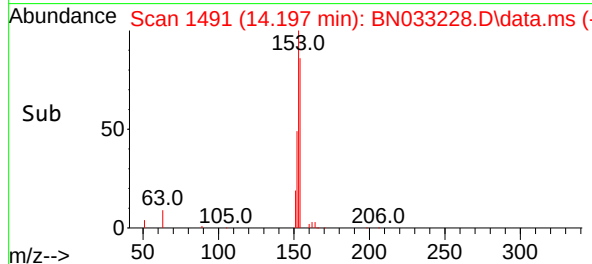
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



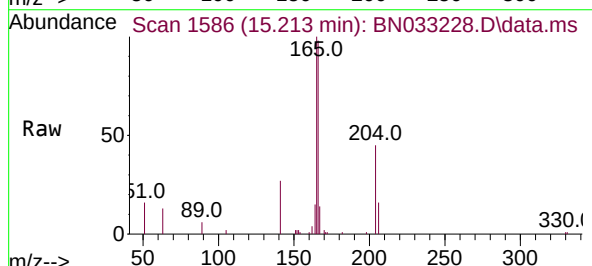
Tgt Ion:154 Resp: 652
Ion Ratio Lower Upper
154 100
153 115.5 91.8 137.8
152 56.1 45.2 67.8

Manual Integrations
APPROVED

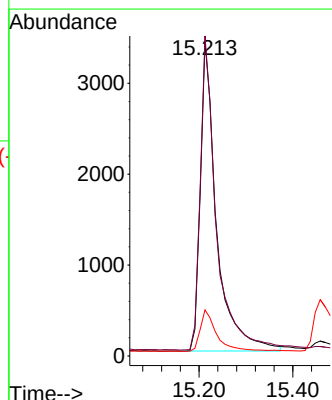
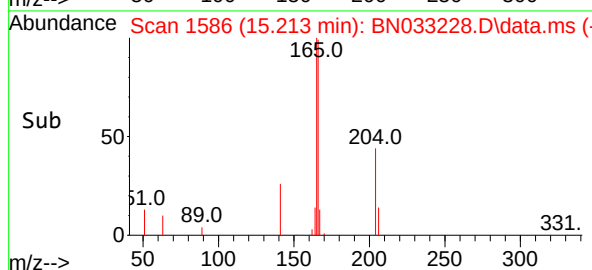
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

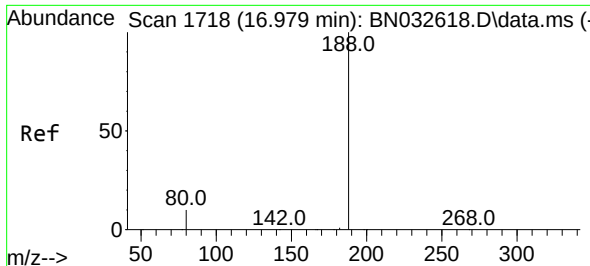


#18
Fluorene
Concen: 0.367 ng
RT: 15.213 min Scan# 1586
Delta R.T. -0.004 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



Tgt Ion:166 Resp: 8211
Ion Ratio Lower Upper
166 100
165 99.8 78.0 117.0
167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.915 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

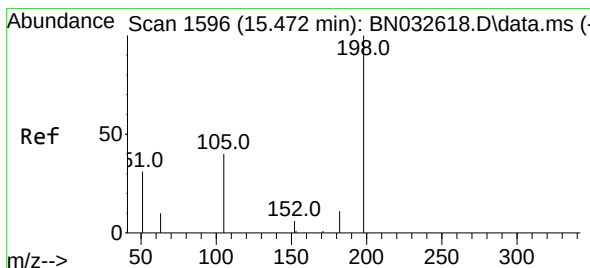
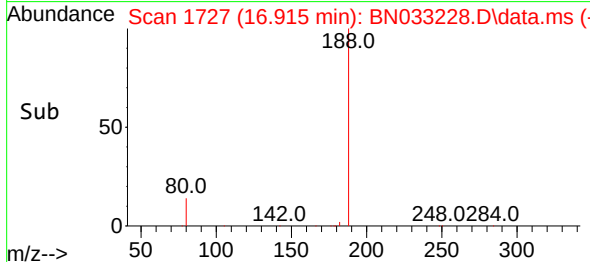
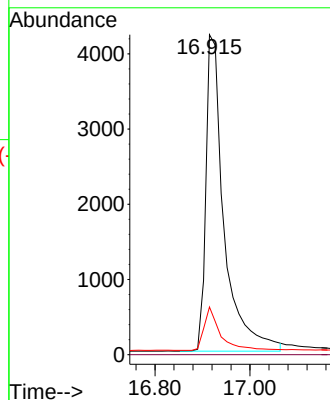
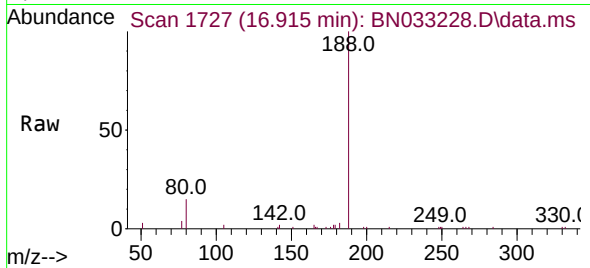
Tgt Ion:188 Resp: 11229

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.9	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.351 ng

RT: 15.549 min Scan# 1617

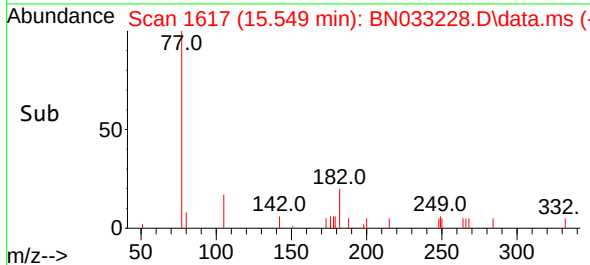
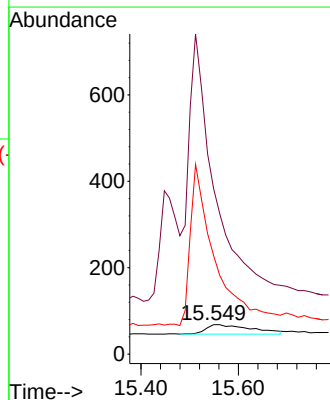
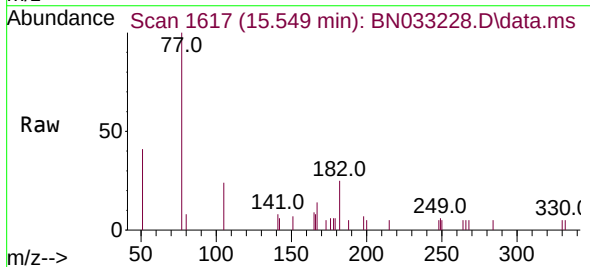
Delta R.T. -0.006 min

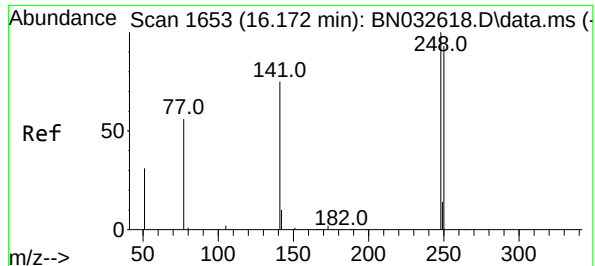
Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Tgt Ion:198 Resp: 142

Ion	Ratio	Lower	Upper
198	100		
51	563.2	105.7	158.5#
105	335.3	63.0	94.6#





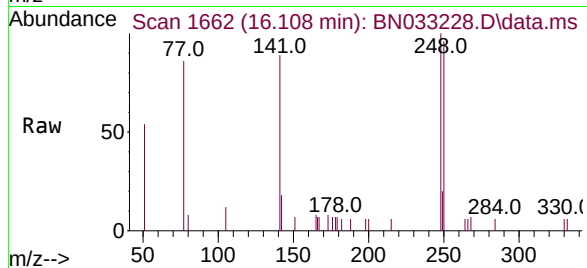
#21
4-Bromophenyl-phenylether
Concen: 0.367 ng
RT: 16.108 min Scan# 1662
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

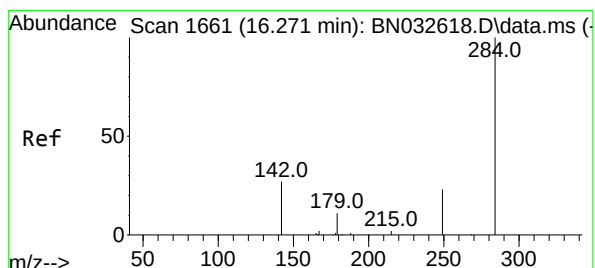
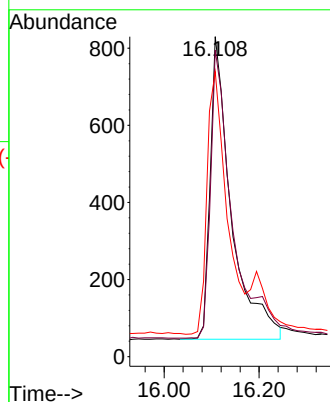
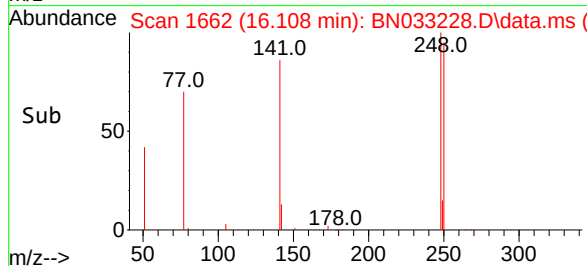


Tgt Ion:248 Resp: 242
Ion Ratio Lower Upper
248 100
250 95.8 75.1 112.7
141 89.0 62.0 93.0

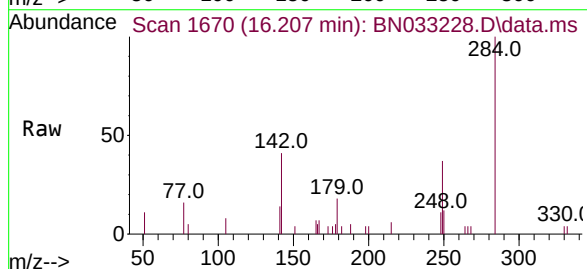
Manual Integrations

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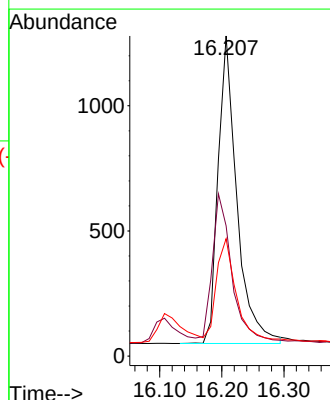
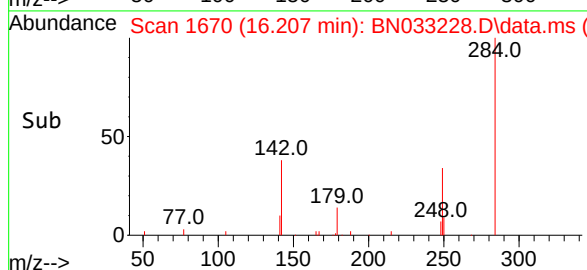
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

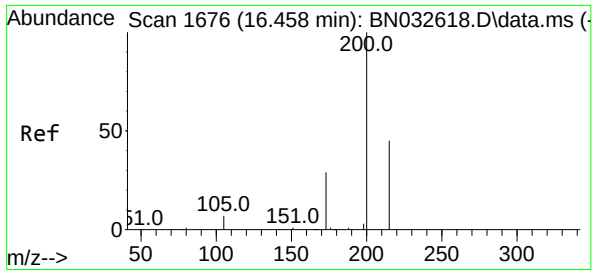


#22
Hexachlorobenzene
Concen: 0.349 ng
RT: 16.207 min Scan# 1670
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



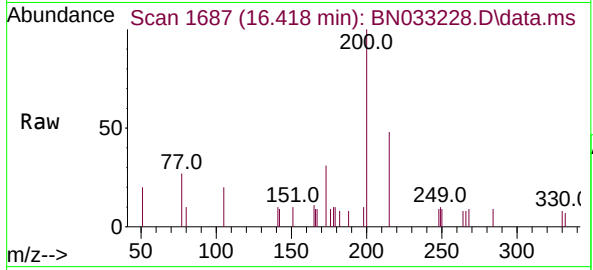
Tgt Ion:284 Resp: 2575
Ion Ratio Lower Upper
284 100
142 48.8 29.4 44.0#
249 33.5 24.6 36.8





#23
Atrazine
Concen: 0.373 ng
RT: 16.418 min Scan# 1704
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

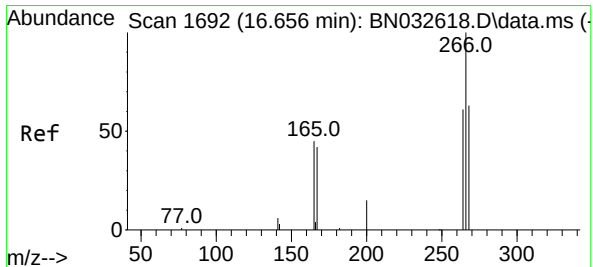
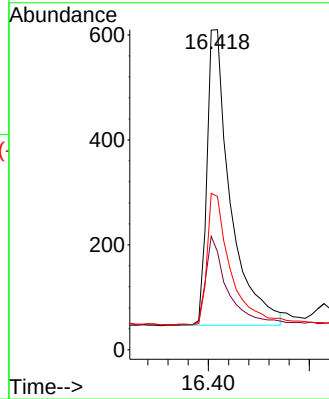
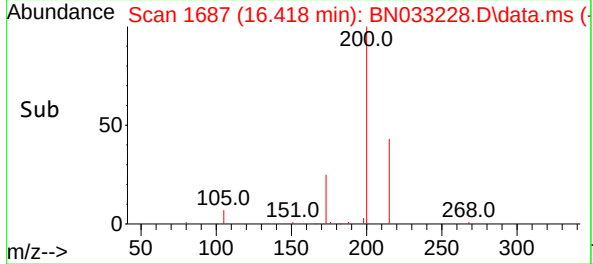
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 181
Ion Ratio Lower Upper
200 100
173 30.7 25.4 38.2
215 47.9 38.2 57.2

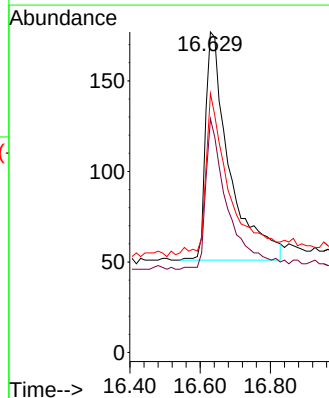
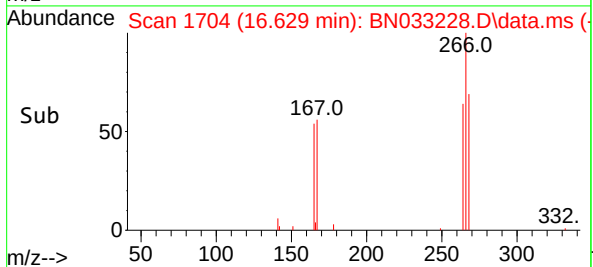
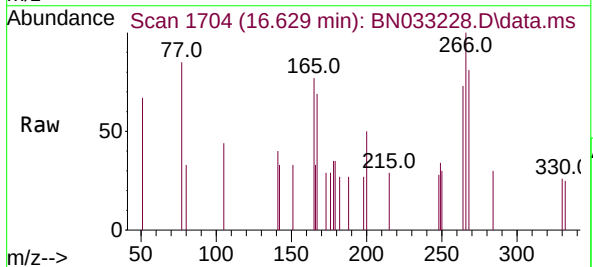
Manual Integrations
APPROVED

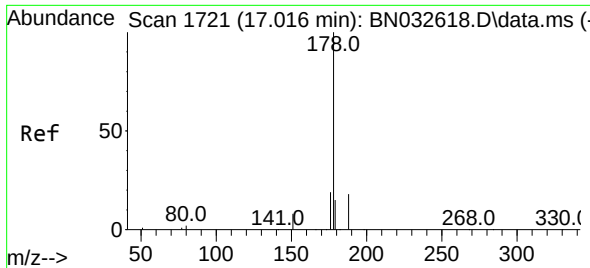
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.216 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:266 Resp: 593
Ion Ratio Lower Upper
266 100
264 60.9 50.2 75.2
268 63.6 52.8 79.2





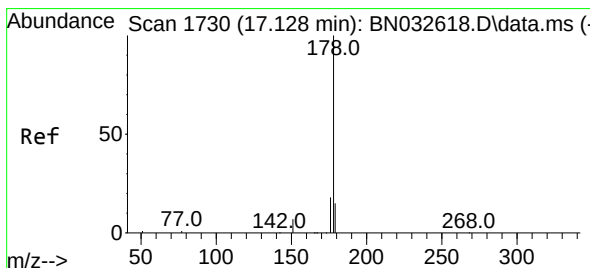
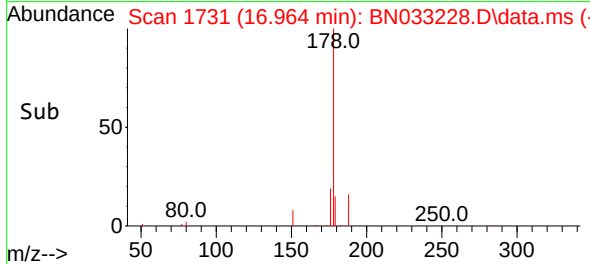
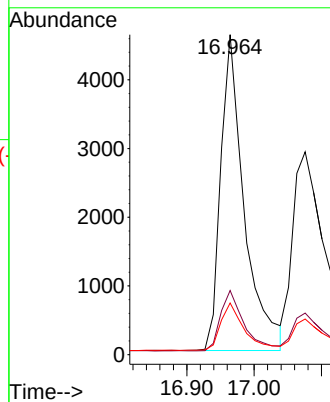
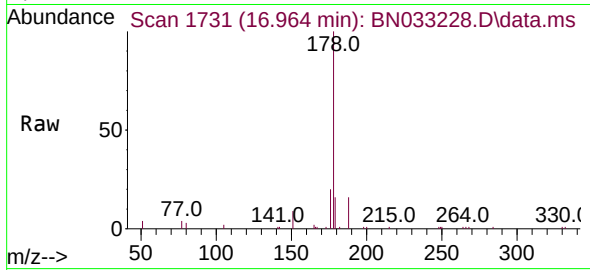
#25
Phenanthrene
Concen: 0.364 ng
RT: 16.964 min Scan# 1115
Delta R.T. -0.006 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 1115
Ion Ratio Lower Upper
178 100
176 19.4 15.1 22.7
179 15.3 12.2 18.4

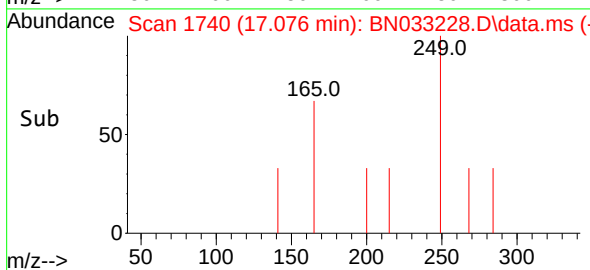
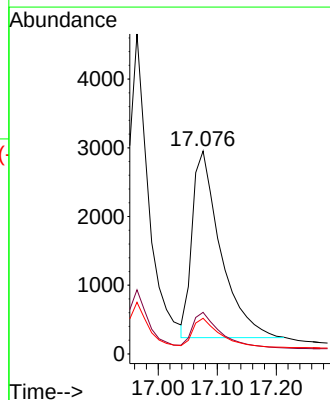
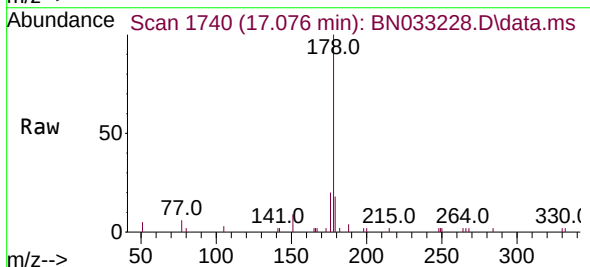
Manual Integrations
APPROVED

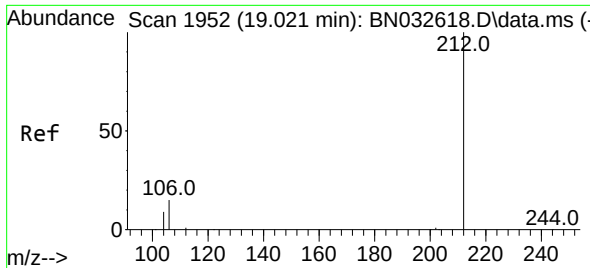
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.360 ng m
RT: 17.076 min Scan# 1740
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:178 Resp: 9086
Ion Ratio Lower Upper
178 100
176 15.2 14.8 22.2
179 12.5 11.8 17.8





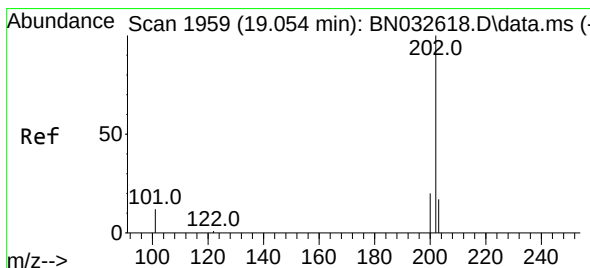
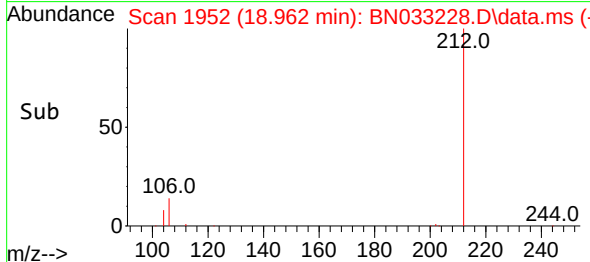
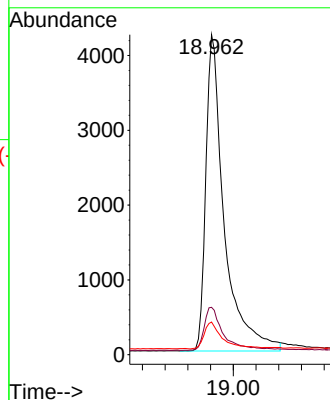
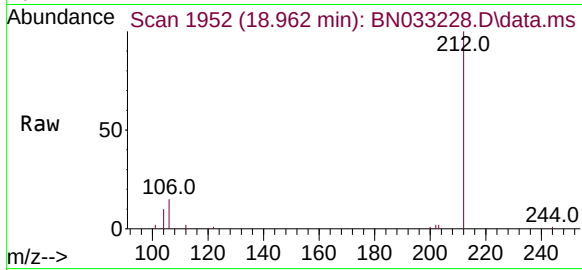
#27
Fluoranthene-d10
Concen: 0.327 ng
RT: 18.962 min Scan# 1952
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.2	11.9	17.9
104	8.4	6.9	10.3

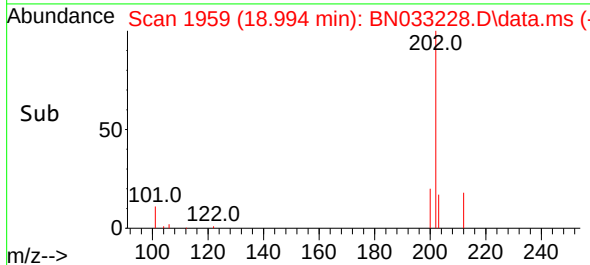
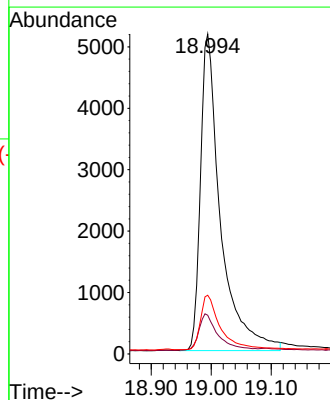
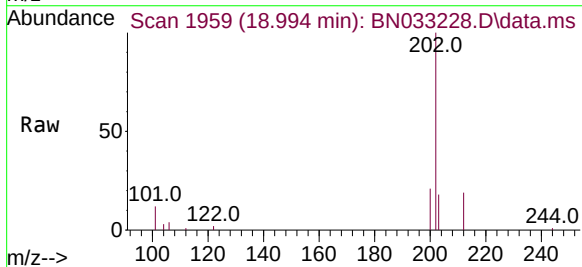
Manual Integrations
APPROVED

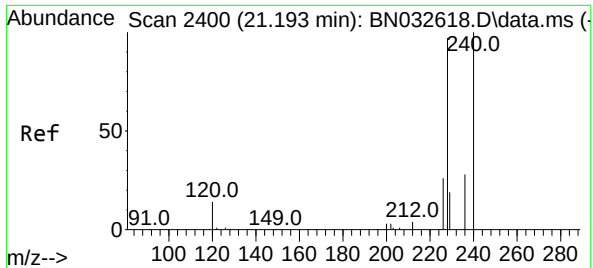
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#28
Fluoranthene
Concen: 0.323 ng
RT: 18.994 min Scan# 1959
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

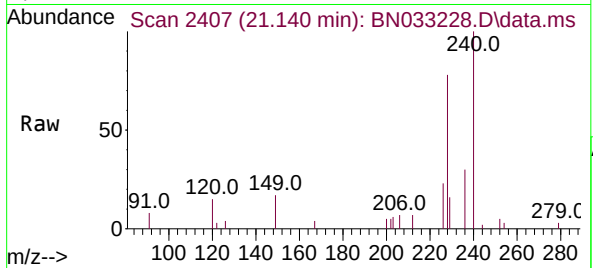
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.6	14.4
203	17.2	13.8	20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

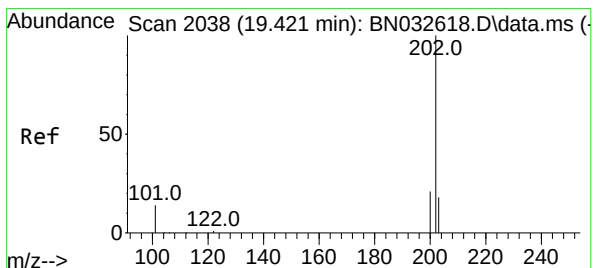
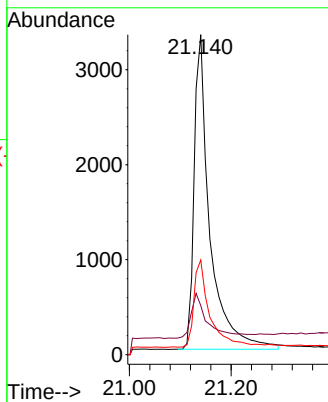
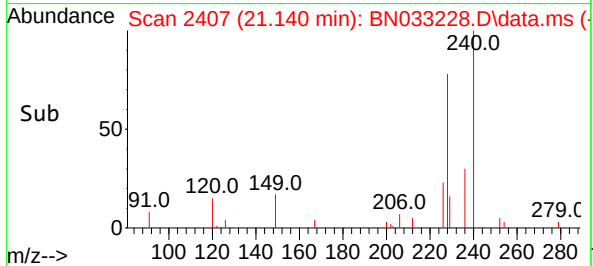
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 7084
Ion Ratio Lower Upper
240 100
120 15.3 14.8 22.2
236 29.6 23.3 34.9

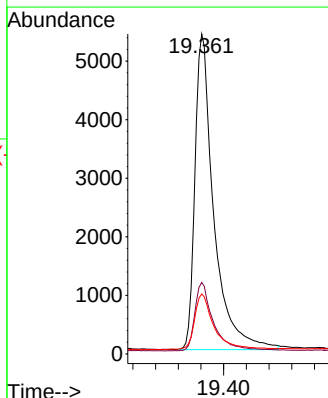
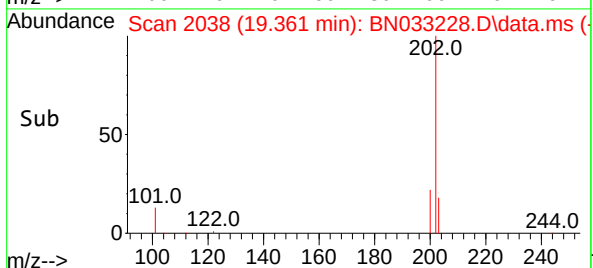
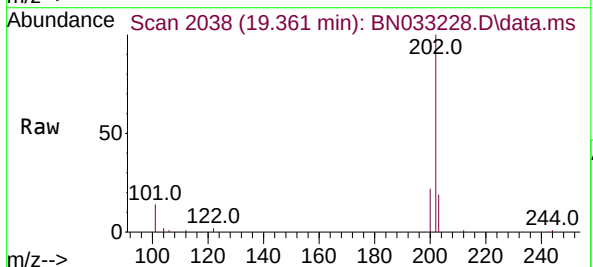
Manual Integrations
APPROVED

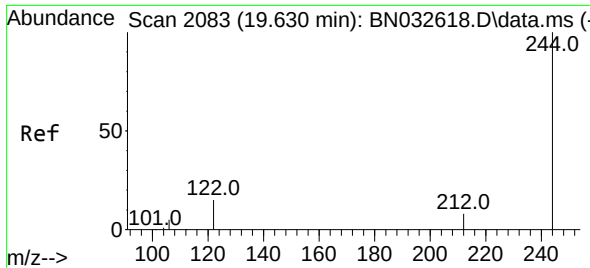
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#30
Pyrene
Concen: 0.429 ng
RT: 19.361 min Scan# 2038
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:202 Resp: 12412
Ion Ratio Lower Upper
202 100
200 21.5 16.6 25.0
203 18.6 14.8 22.2





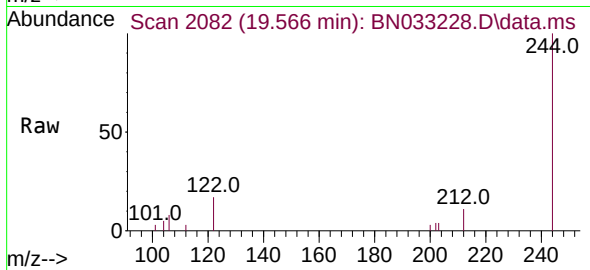
#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.566 min Scan# 2406
Delta R.T. 0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

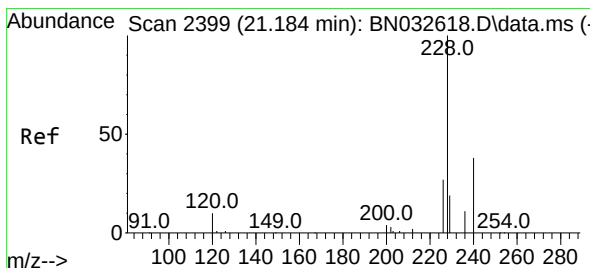
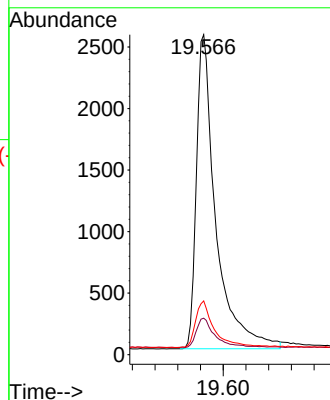
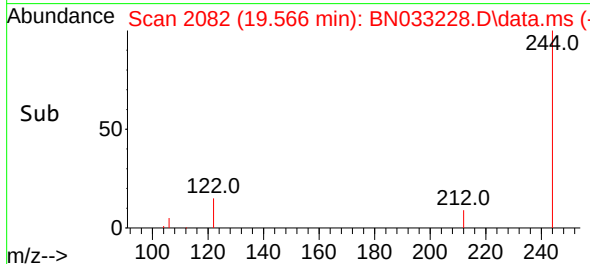


Tgt Ion:244 Resp: 6060
Ion Ratio Lower Upper
244 100
212 11.4 7.5 11.3
122 16.8 12.6 19.0

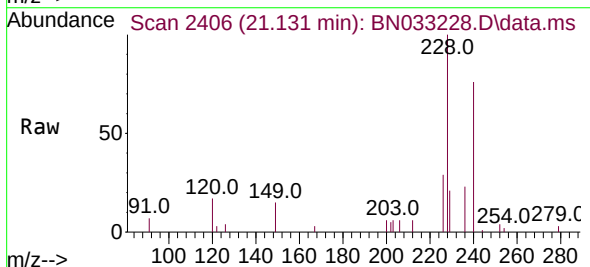
Manual Integrations

APPROVED

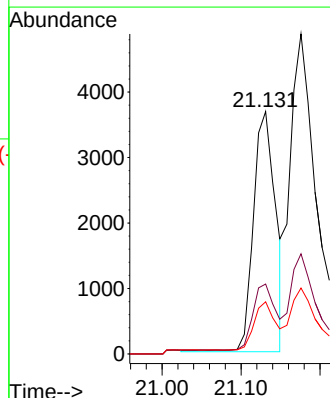
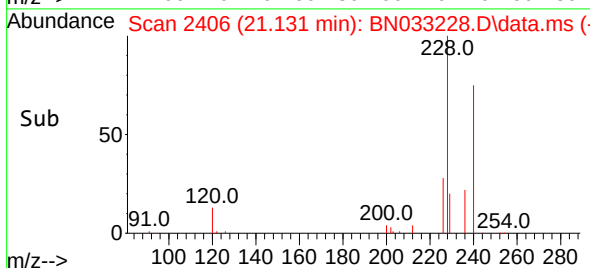
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

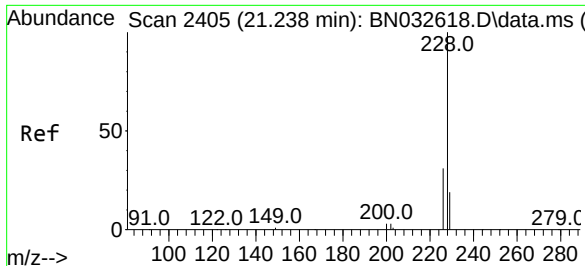


#32
Benzo(a)anthracene
Concen: 0.320 ng m
RT: 21.131 min Scan# 2406
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59



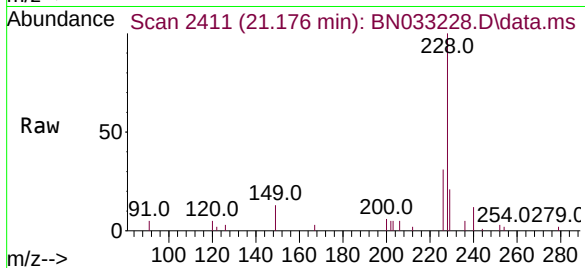
Tgt Ion:228 Resp: 7176
Ion Ratio Lower Upper
228 100
226 28.8 21.8 32.6
229 21.5 16.0 24.0





#33
Chrysene
Concen: 0.426 ng
RT: 21.176 min Scan# 2411
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

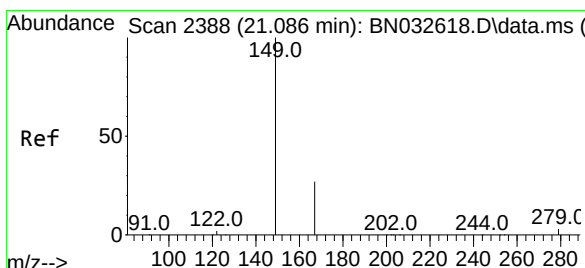
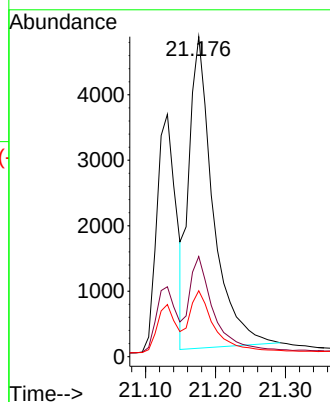
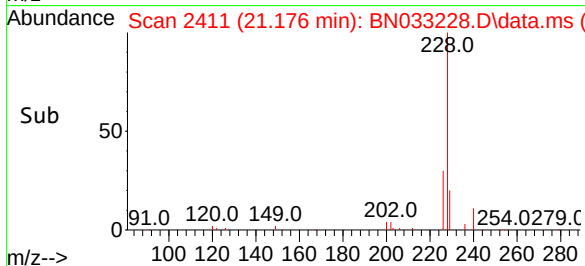
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:228 Resp: 1133
Ion Ratio Lower Upper
228 100
226 31.3 24.2 36.2
229 20.6 16.0 24.0

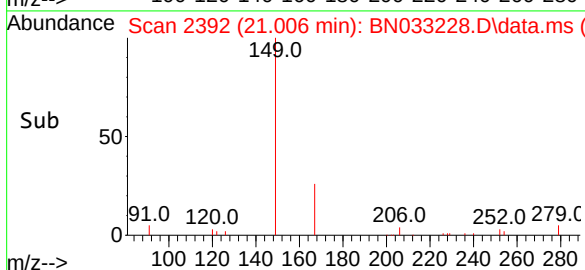
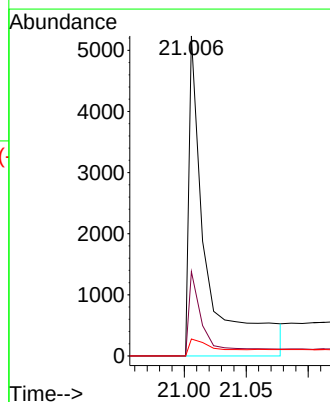
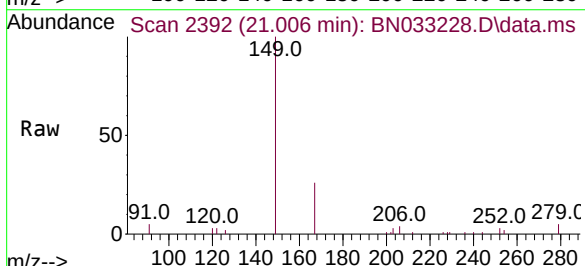
Manual Integrations
APPROVED

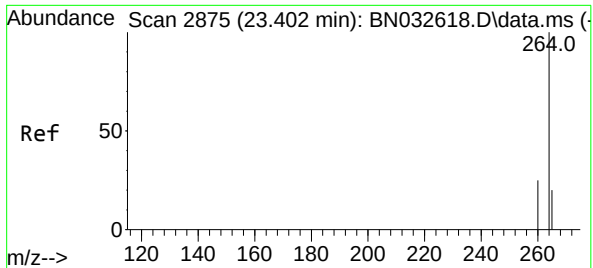
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.436 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

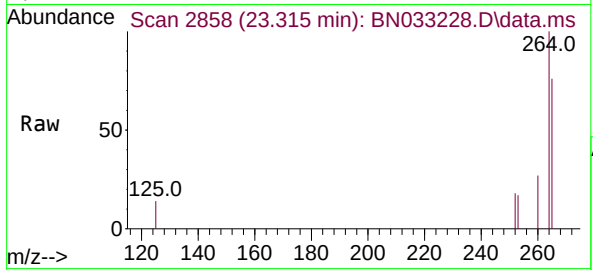
Tgt Ion:149 Resp: 5406
Ion Ratio Lower Upper
149 100
167 27.4 21.4 32.2
279 8.0 2.8 4.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.315 min Scan# 21
Delta R.T. 0.001 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

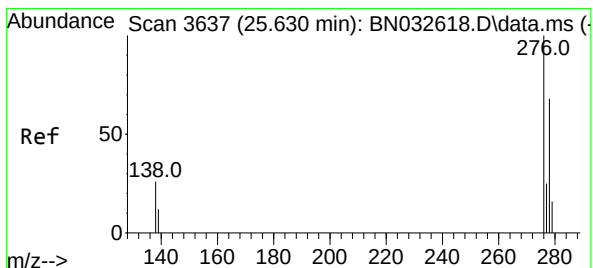
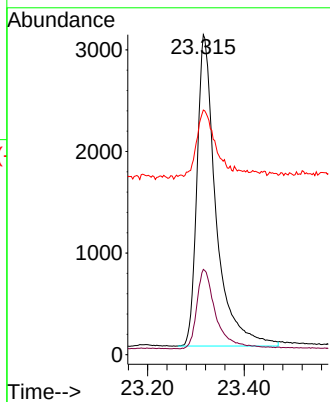
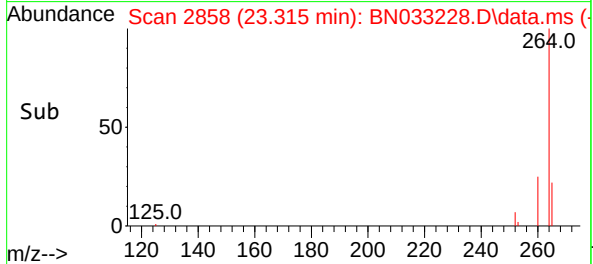
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 835
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 76.4 85.4 128.2

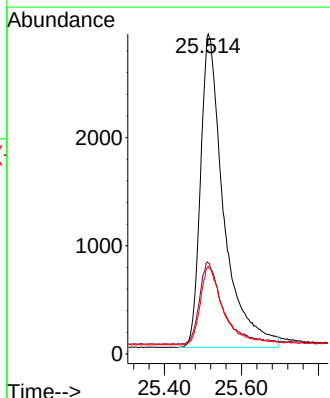
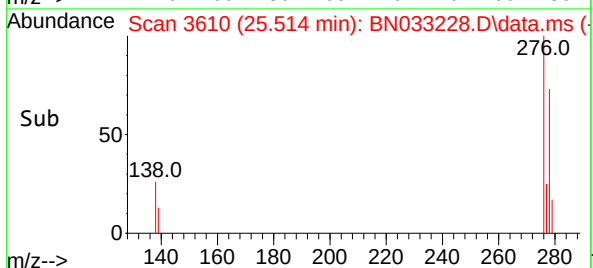
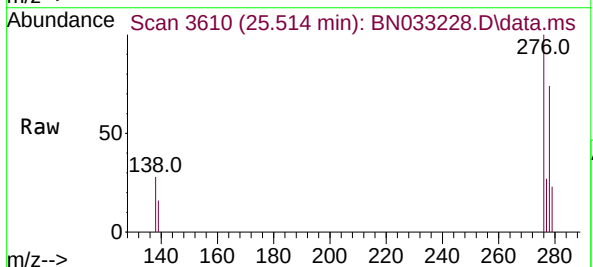
Manual Integrations
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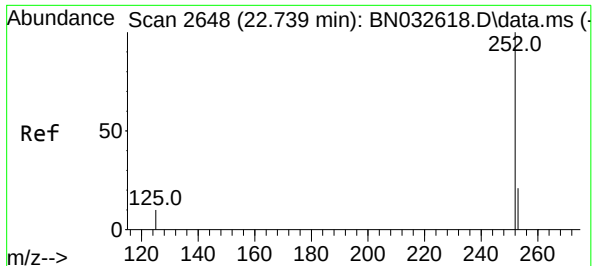
Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.514 min Scan# 3610
Delta R.T. 0.007 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

Tgt Ion:276 Resp: 12098
Ion Ratio Lower Upper
276 100
138 25.9 21.0 31.4
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.319 ng m

RT: 22.666 min Scan# 2636

Delta R.T. 0.007 min

Lab File: BN033228.D

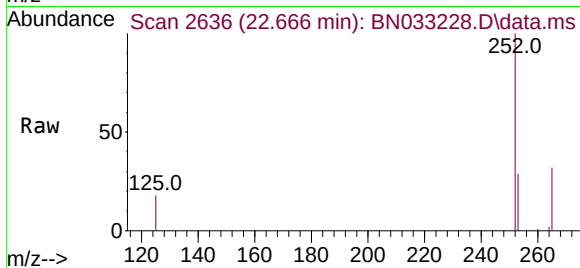
Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 9290

Ion Ratio Lower Upper

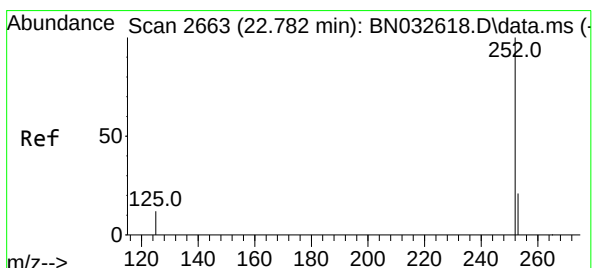
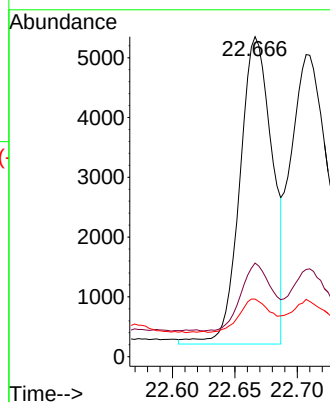
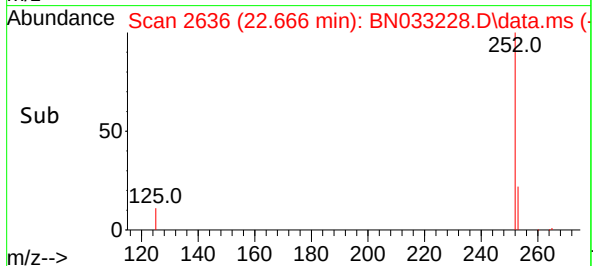
252 100

253 29.2 22.3 33.5

125 18.0 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#38

Benzo(k)fluoranthene

Concen: 0.341 ng

RT: 22.707 min Scan# 2650

Delta R.T. 0.004 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

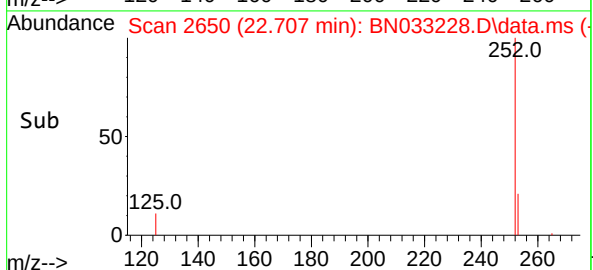
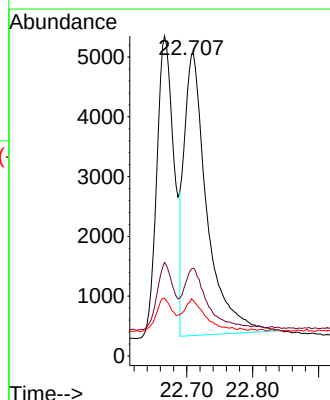
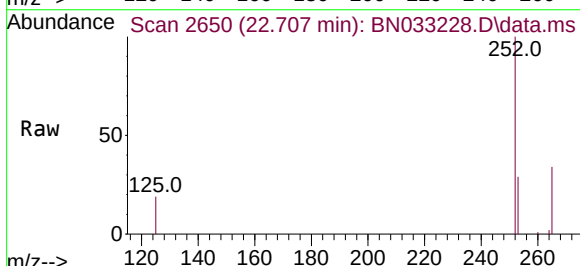
Tgt Ion:252 Resp: 11329

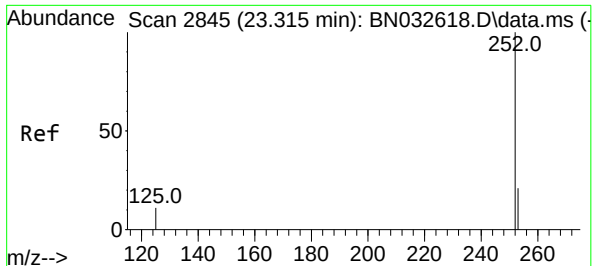
Ion Ratio Lower Upper

252 100

253 28.9 22.6 34.0

125 18.9 16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.347 ng

RT: 23.233 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

Instrument :

BNA_N

ClientSampleId :

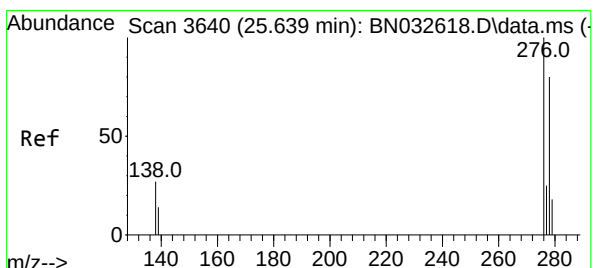
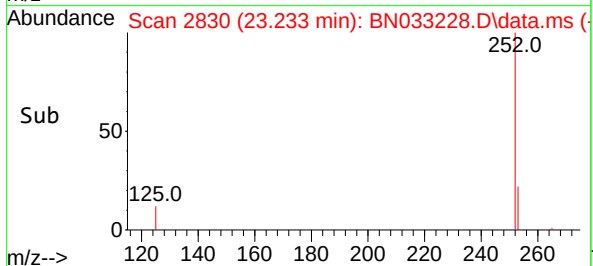
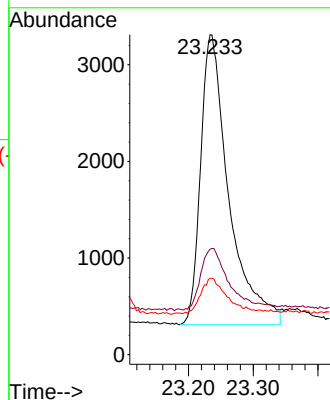
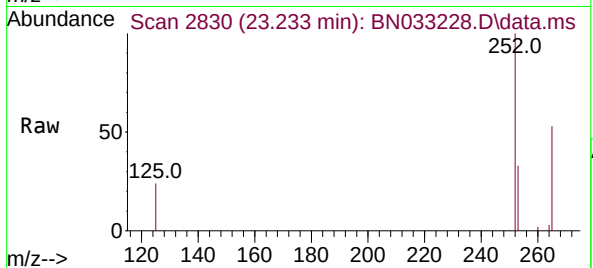
SSTDCCC0.4

Tgt Ion:	252	Resp:	910
Ion Ratio	Lower	Upper	
252	100		
253	33.0	25.8	38.8
125	23.9	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

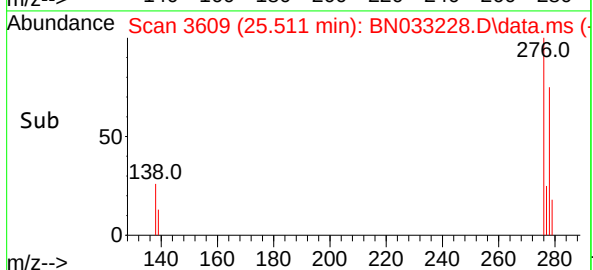
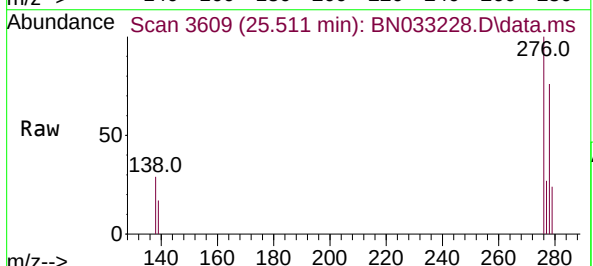
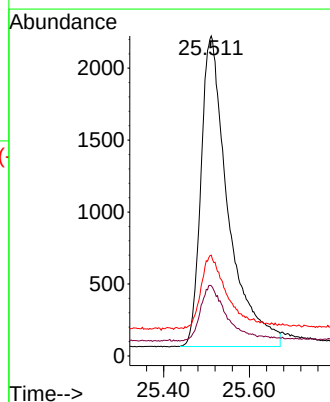
RT: 25.511 min Scan# 3609

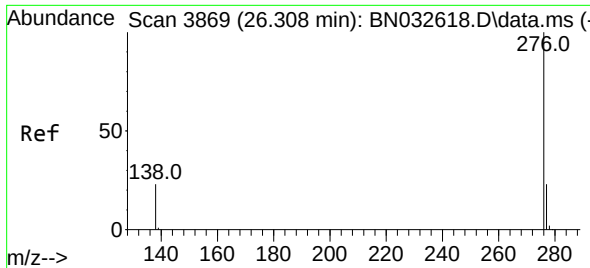
Delta R.T. 0.004 min

Lab File: BN033228.D

Acq: 03 Aug 2024 07:59

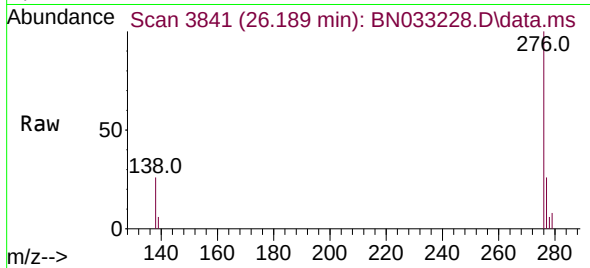
Tgt Ion:	278	Resp:	9491
Ion Ratio	Lower	Upper	
278	100		
139	21.9	16.7	25.1
279	31.5	24.3	36.5





#41
Benzo(g,h,i)perylene
Concen: 0.379 ng
RT: 26.189 min Scan# 3841
Delta R.T. 0.012 min
Lab File: BN033228.D
Acq: 03 Aug 2024 07:59

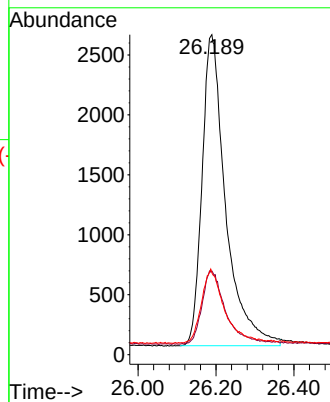
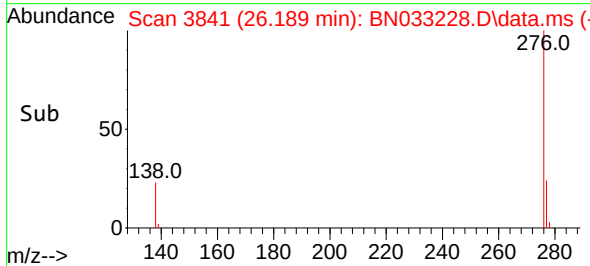
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:276 Resp: 10919
Ion Ratio Lower Upper
276 100
277 26.2 20.2 30.2
138 25.6 20.5 30.7

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033228.D
Acq On : 03 Aug 2024 07:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 05 03:25:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	68	0.00
2	1,4-Dioxane	0.496	0.550	-10.9	76	0.00
3	n-Nitrosodimethylamine	0.419	0.488	-16.5	79	0.00
4 S	2-Fluorophenol	1.012	0.980	3.2	64	0.00
5 S	Phenol-d6	1.256	1.220	2.9	66	-0.02
6	bis(2-Chloroethyl)ether	1.050	0.885	15.7	57	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	77	0.00
8 S	Nitrobenzene-d5	0.301	0.293	2.7	78	0.00
9	Naphthalene	1.108	1.046	5.6	73	-0.01
10	Hexachlorobutadiene	0.212	0.199	6.1	72	-0.01
11 SURR	2-Methylnaphthalene-d10	0.612	0.548	10.5	71	0.00
12	2-Methylnaphthalene	0.724	0.605	16.4	67	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
14 S	2,4,6-Tribromophenol	0.171	0.112	34.5#	49#	0.00
15 S	2-Fluorobiphenyl	1.489	1.432	3.8	65	0.00
16	Acenaphthylene	1.627	1.592	2.2	72	0.00
17	Acenaphthene	1.153	1.123	2.6	67	0.00
18	Fluorene	1.541	1.413	8.3	63	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	61	0.00
20	4,6-Dinitro-2-methylphenol	0.056	0.013	76.8#	23#	0.00
21	4-Bromophenyl-phenylether	0.235	0.216	8.1	57	0.00
22	Hexachlorobenzene	0.263	0.229	12.9	54	0.00
23	Atrazine	0.173	0.161	6.9	63	0.00
24	Pentachlorophenol	0.098	0.053	45.9#	40#	0.00
25	Phenanthrene	1.093	0.994	9.1	57	0.00
26	Anthracene	0.900	0.809	10.1	62	0.00
27 SURR	Fluoranthene-d10	1.035	0.846	18.3	52	0.00
28	Fluoranthene	1.323	1.067	19.3	52	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	51	0.00
30	Pyrene	1.634	1.752	-7.2	53	0.00
31 S	Terphenyl-d14	0.820	0.856	-4.4	52	0.00
32	Benzo(a)anthracene	1.265	1.013	19.9	43#	0.00
33	Chrysene	1.504	1.600	-6.4	53	0.00
34	Bis(2-ethylhexyl)phthalate	0.700	0.763	-9.0	64	0.00
35 I	Perylene-d12	1.000	1.000	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	1.577	1.448	8.2	60	0.00
37	Benzo(b)fluoranthene	1.393	1.112	20.2	54	0.00
38	Benzo(k)fluoranthene	1.592	1.356	14.8	54	0.00
39 C	Benzo(a)pyrene	1.256	1.090	13.2	57	0.00
40	Dibenzo(a,h)anthracene	1.245	1.136	8.8	59	0.00
41	Benzo(g,h,i)perylene	1.379	1.307	5.2	60	0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033228.D
Acq On : 03 Aug 2024 07:59
Operator : MA/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 05 03:25:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 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	68	0.00
2	1,4-Dioxane	0.400	0.444	-11.0	76	0.00
3	n-Nitrosodimethylamine	0.400	0.466	-16.5	79	0.00
4 S	2-Fluorophenol	0.400	0.387	3.3	64	0.00
5 S	Phenol-d6	0.400	0.388	3.0	66	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.337	15.8	57	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	77	0.00
8 S	Nitrobenzene-d5	0.400	0.389	2.8	78	0.00
9	Naphthalene	0.400	0.378	5.5	73	-0.01
10	Hexachlorobutadiene	0.400	0.377	5.8	72	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.358	10.5	71	0.00
12	2-Methylnaphthalene	0.400	0.334	16.5	67	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	68	0.00
14 S	2,4,6-Tribromophenol	0.400	0.261	34.8#	49	0.00
15 S	2-Fluorobiphenyl	0.400	0.385	3.8	65	0.00
16	Acenaphthylene	0.400	0.391	2.3	72	0.00
17	Acenaphthene	0.400	0.389	2.8	67	0.00
18	Fluorene	0.400	0.367	8.3	63	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	61	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.351	12.3	23	0.00
21	4-Bromophenyl-phenylether	0.400	0.367	8.3	57	0.00
22	Hexachlorobenzene	0.400	0.349	12.8	54	0.00
23	Atrazine	0.400	0.373	6.8	63	0.00
24	Pentachlorophenol	0.400	0.216	46.0#	40	0.00
25	Phenanthrene	0.400	0.364	9.0	57	0.00
26	Anthracene	0.400	0.360	10.0	62	0.00
27 SURR	Fluoranthene-d10	0.400	0.327	18.3	52	0.00
28	Fluoranthene	0.400	0.323	19.3	52	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	51	0.00
30	Pyrene	0.400	0.429	-7.2	53	0.00
31 S	Terphenyl-d14	0.400	0.418	-4.5	52	0.00
32	Benzo(a)anthracene	0.400	0.320	20.0	43	0.00
33	Chrysene	0.400	0.426	-6.5	53	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.436	-9.0	64	0.00
35 I	Perylene-d12	0.400	0.400	0.0	63	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	60	0.00
37	Benzo(b)fluoranthene	0.400	0.319	20.3	54	0.00
38	Benzo(k)fluoranthene	0.400	0.341	14.8	54	0.00
39 C	Benzo(a)pyrene	0.400	0.347	13.3	57	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	59	0.00
41	Benzo(g,h,i)perylene	0.400	0.379	5.3	60	0.01

(#) = Out of Range

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



QC SAMPLE DATA

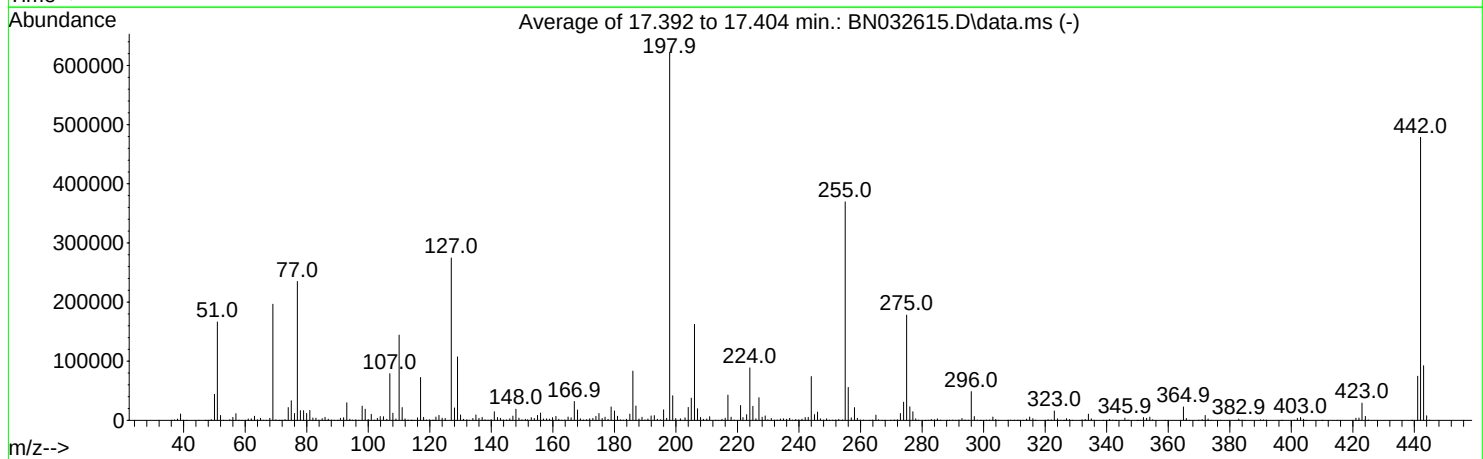
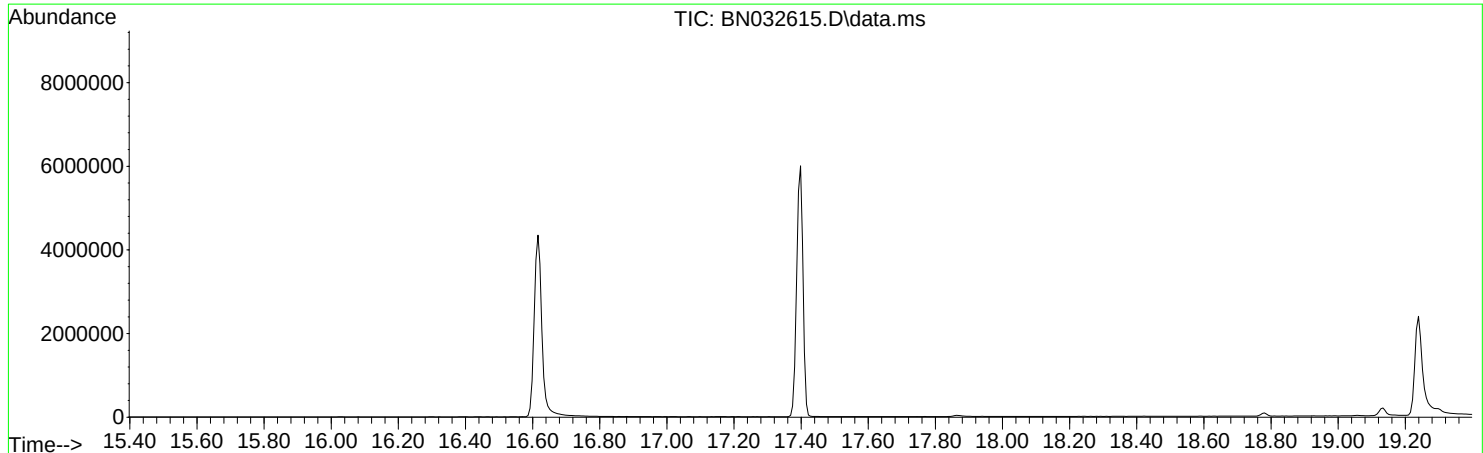
- 1
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- 9
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- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN071124\
Data File : BN032615.D
Acq On : 10 Jul 2024 15:03
Operator : MA/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-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jul 10 23:45:48 2024



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2441

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	26.7	166320	PASS
68	69	0.00	2	1.8	3465	PASS
69	198	0.00	100	31.6	196373	PASS
70	69	0.00	2	0.5	1066	PASS
127	198	10	80	44.1	274496	PASS
197	198	0.00	2	0.6	3484	PASS
198	198	100	100	100.0	621973	PASS
199	198	5	9	6.7	41595	PASS
275	198	10	60	28.6	178155	PASS
365	198	1	100	3.6	22635	PASS
441	198	0.01	100	12.0	74808	PASS
442	442	50	100	100.0	478507	PASS
443	442	15	24	19.3	92581	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/11/2024	BNA_N	<u>BN032615.D</u>
Compound Name	Response	Retention Time
DDT	2244369	20.463
DDD	25705	20.069
DDE	645	19.51
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
26350	2270719	1.16

Instrument :
BNA_N
ClientSampleId :
DFTPP

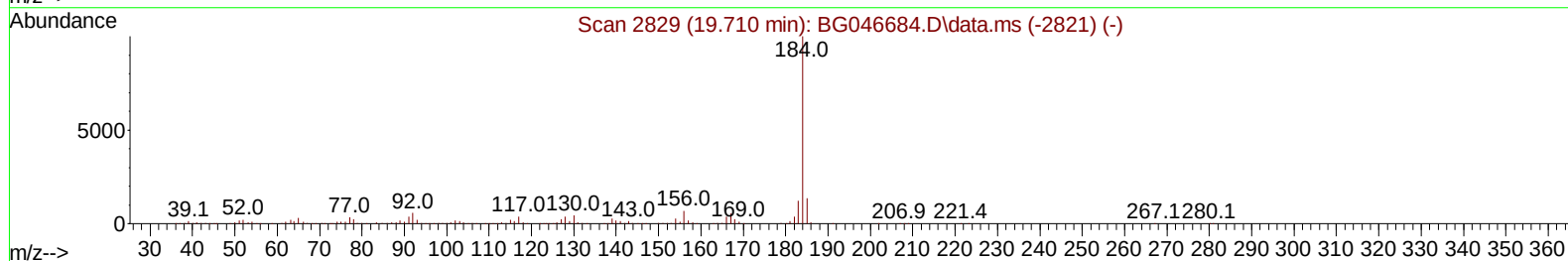
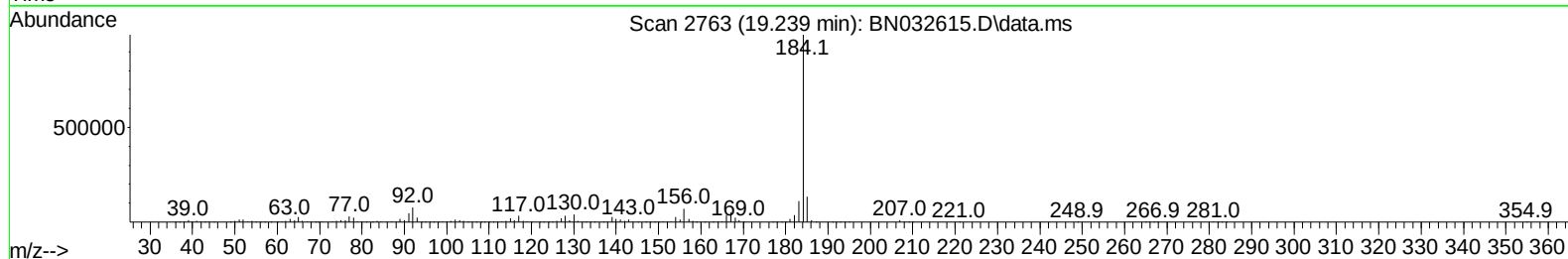
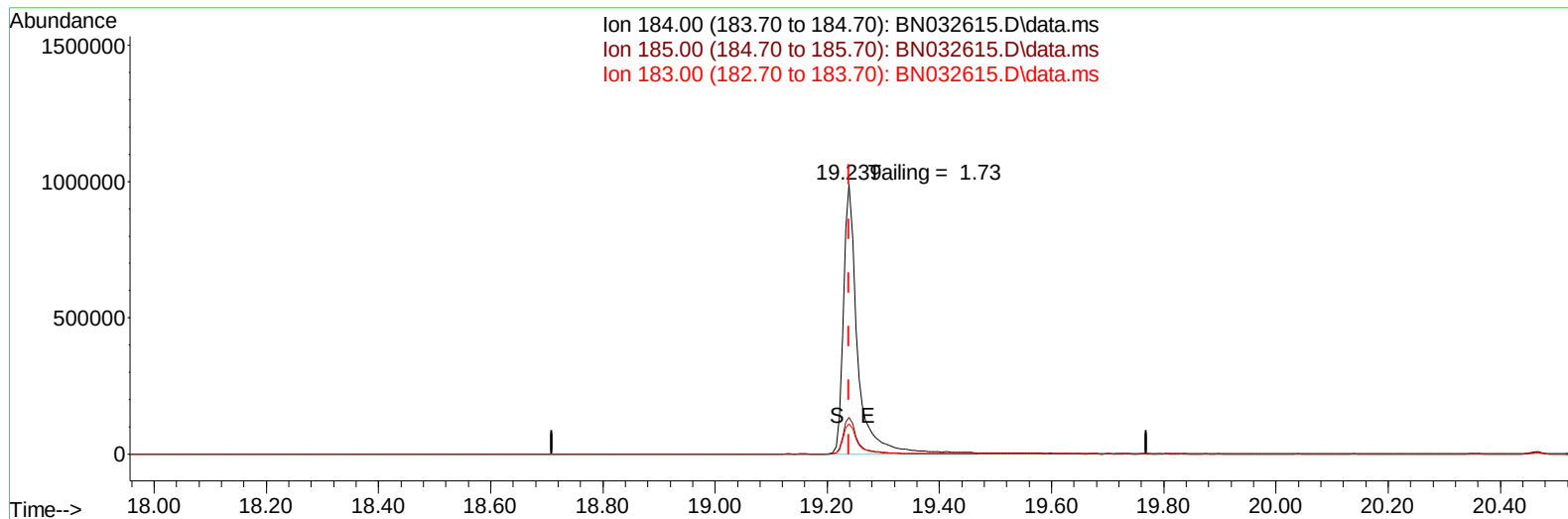
- 1
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- 12
- 13
- 14
- 15
- 16
- 17



Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.51
264.00	61.60	67.53
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jul 11 03:07:39 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 11 03:07:33 2024
Response via : Initial Calibration



TIC: BN032615.D\data.ms

(77) Benzidine

19.239min (0.000) 190151.31 ng

response **1752584**

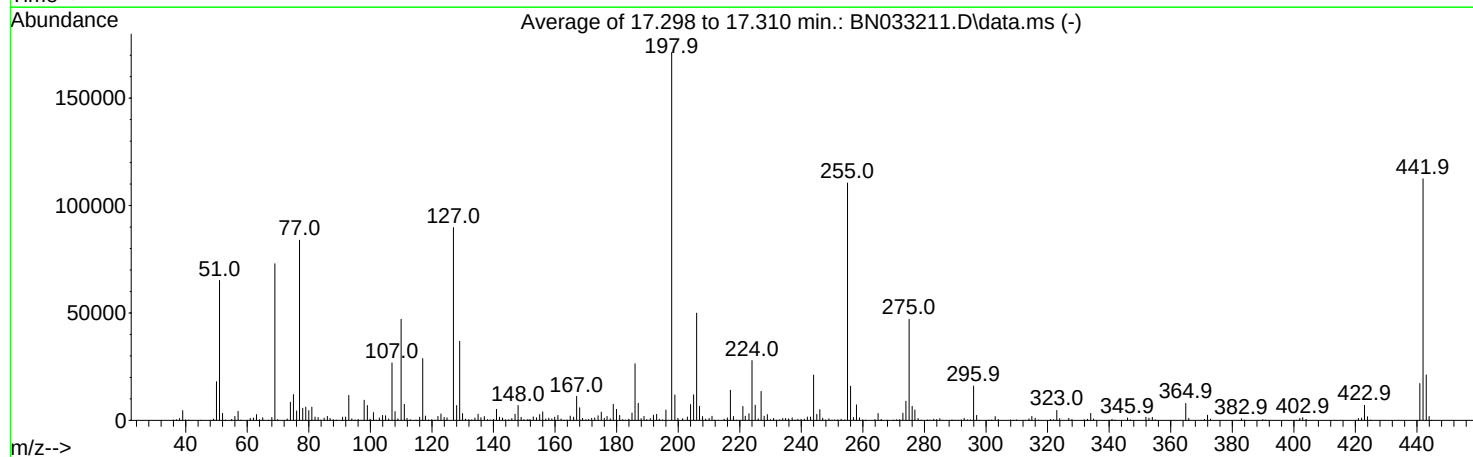
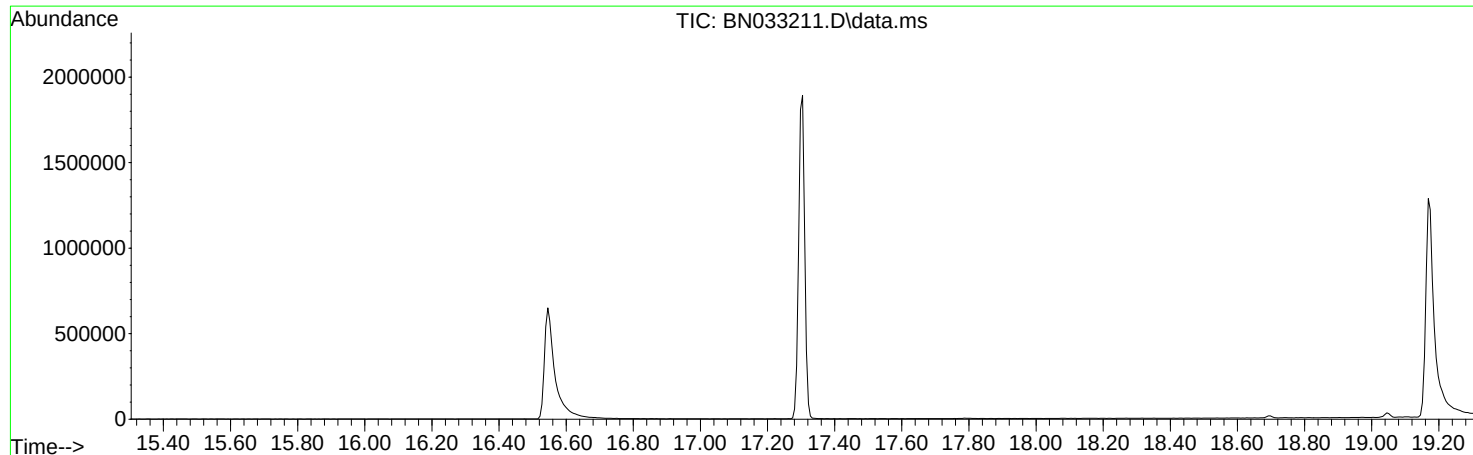
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.60
183.00	13.20	11.21
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033211.D
Acq On : 02 Aug 2024 20:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 02 22:49:47 2024



AutoFind: Scans 2450, 2451, 2452; Background Corrected with Scan 2443

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.1	65157	PASS
68	69	0.00	2	1.8	1321	PASS
69	198	0.00	100	42.6	72904	PASS
70	69	0.00	2	0.5	400	PASS
127	198	10	80	52.4	89776	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	171240	PASS
199	198	5	9	6.9	11880	PASS
275	198	10	60	27.5	47067	PASS
365	198	1	100	4.6	7902	PASS
441	198	0.01	100	10.0	17147	PASS
442	442	50	100	100.0	112451	PASS
443	442	15	24	18.8	21149	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

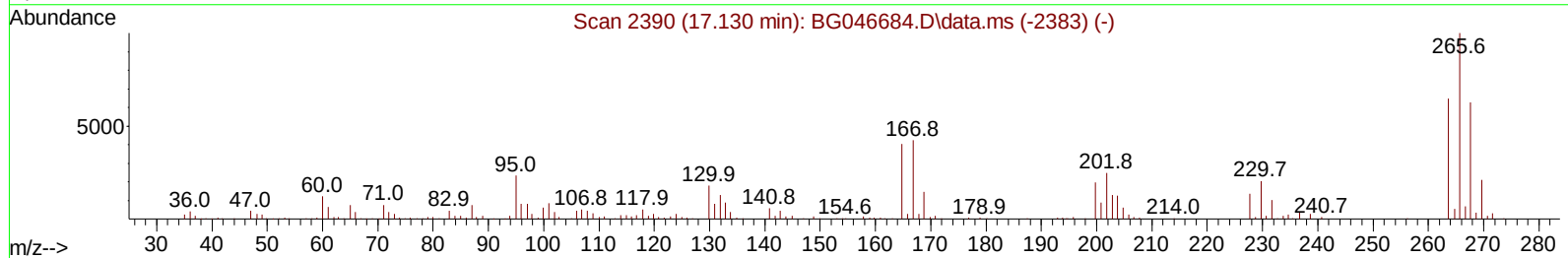
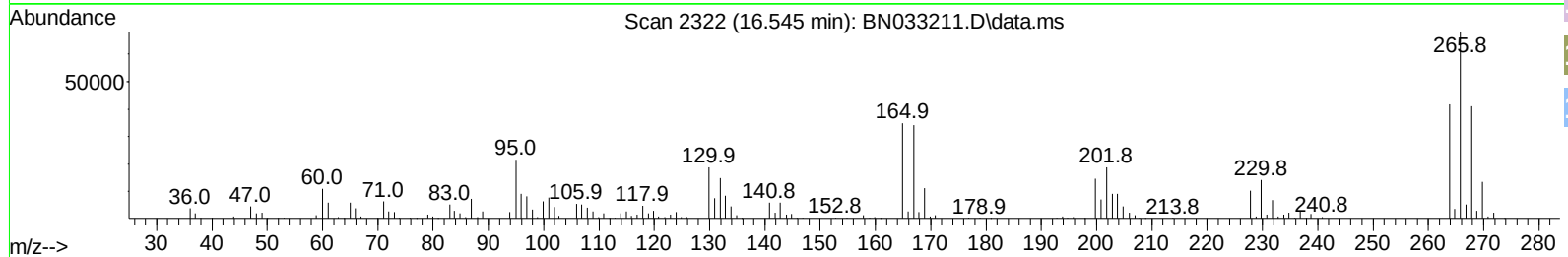
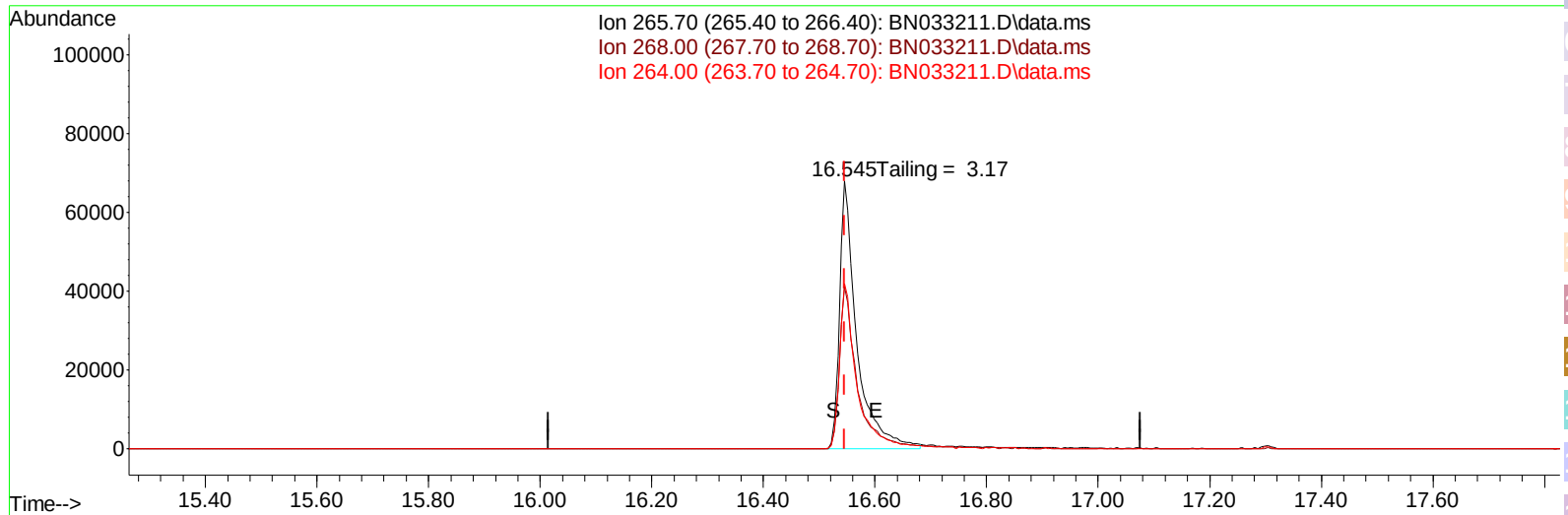
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/3/2024	BNA_N	<u>BN033211.D</u>
Compound Name	Response	Retention Time
DDT	446251	20.38
DDD	73948	19.945
DDE	2159	19.427
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
76107	522358	14.57

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033211.D
Acq On : 02 Aug 2024 20:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 06:10:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 06:10:42 2024
Response via : Initial Calibration



TIC: BN033211.D\data.ms

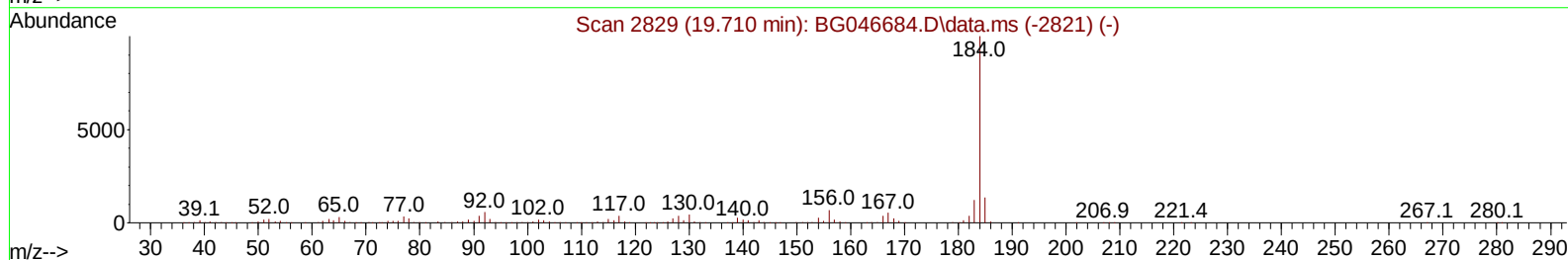
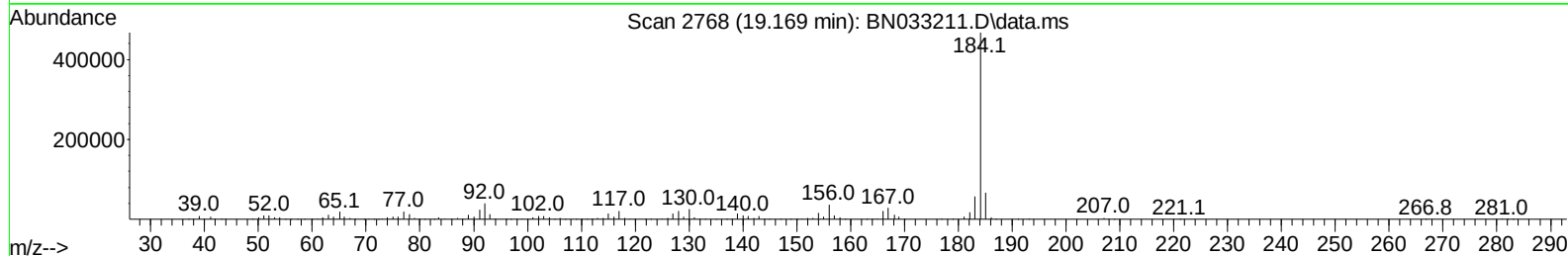
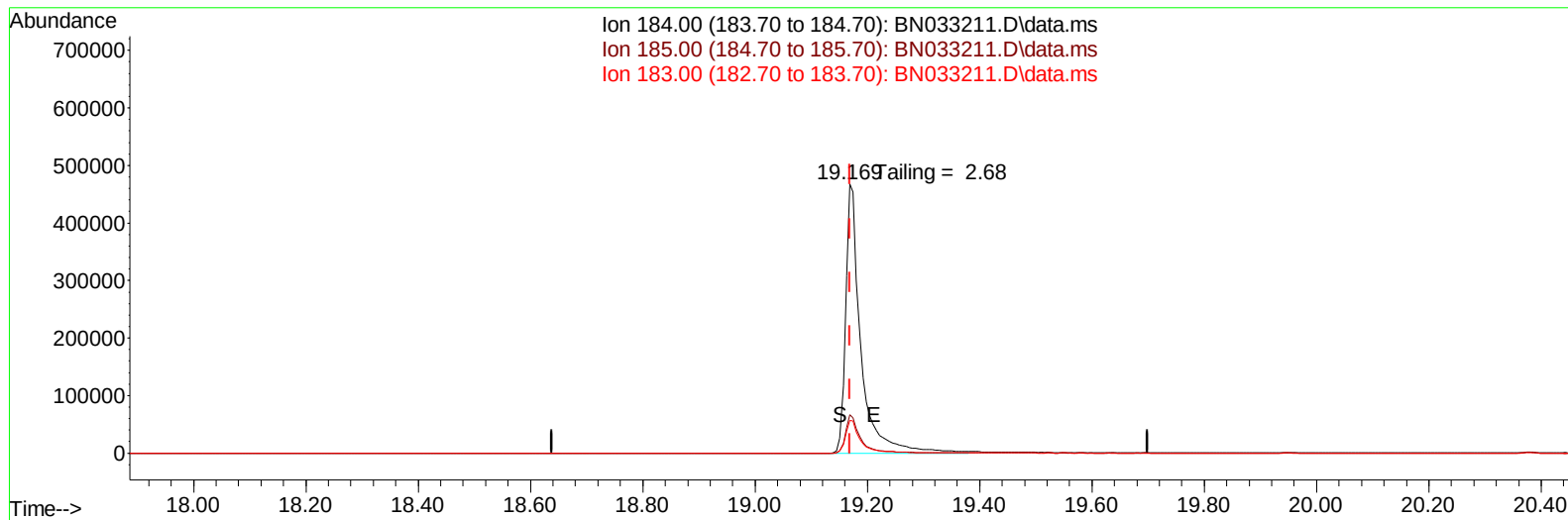
(70) Pentachlorophenol (C)**16.545min (0.000) 16191.87 ng****response 147655**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.60
264.00	61.60	61.61
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033211.D
Acq On : 02 Aug 2024 20:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 06:10:47 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 06:10:42 2024
Response via : Initial Calibration



TIC: BN033211.D\data.ms

(77) Benzidine

19.169min (0.000) 0.00 ng

response 895092

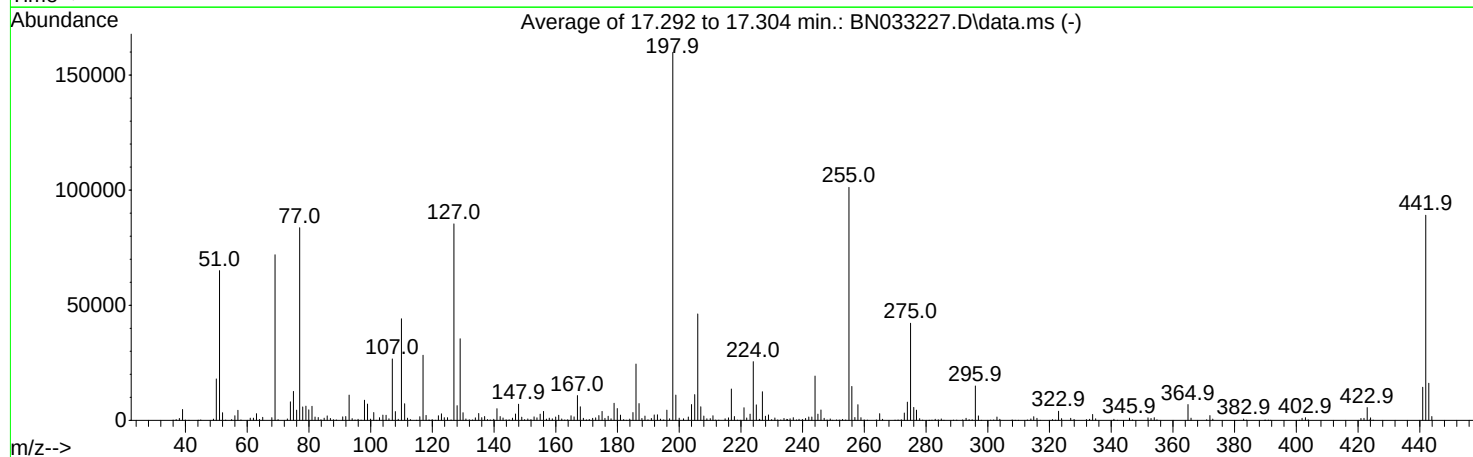
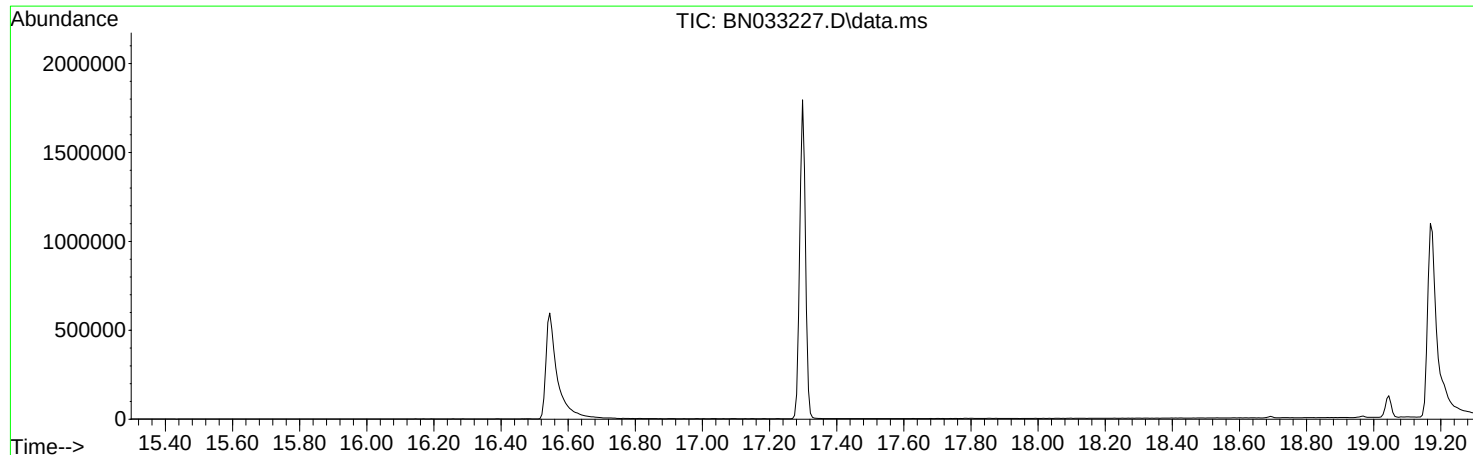
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.35
183.00	13.20	12.27
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Aug 02 22:49:47 2024



AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2442

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.7	65075	PASS
68	69	0.00	2	1.7	1203	PASS
69	198	0.00	100	45.0	71917	PASS
70	69	0.00	2	0.5	343	PASS
127	198	10	80	53.4	85360	PASS
197	198	0.00	2	0.4	710	PASS
198	198	100	100	100.0	159787	PASS
199	198	5	9	6.9	11013	PASS
275	198	10	60	26.4	42229	PASS
365	198	1	100	4.3	6906	PASS
441	198	0.01	100	9.0	14409	PASS
442	442	50	100	100.0	89128	PASS
443	442	15	24	18.1	16097	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

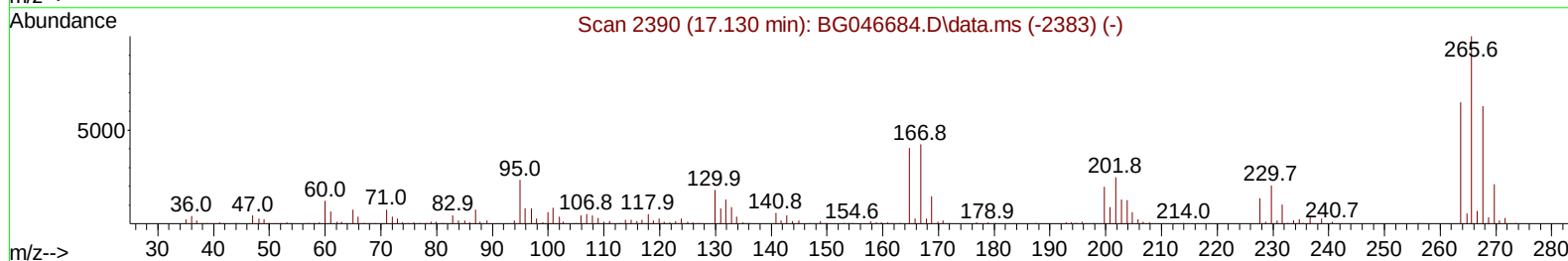
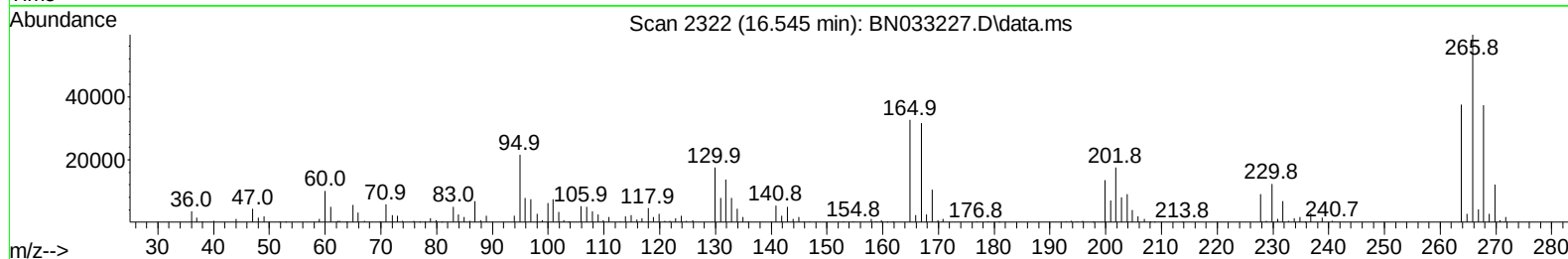
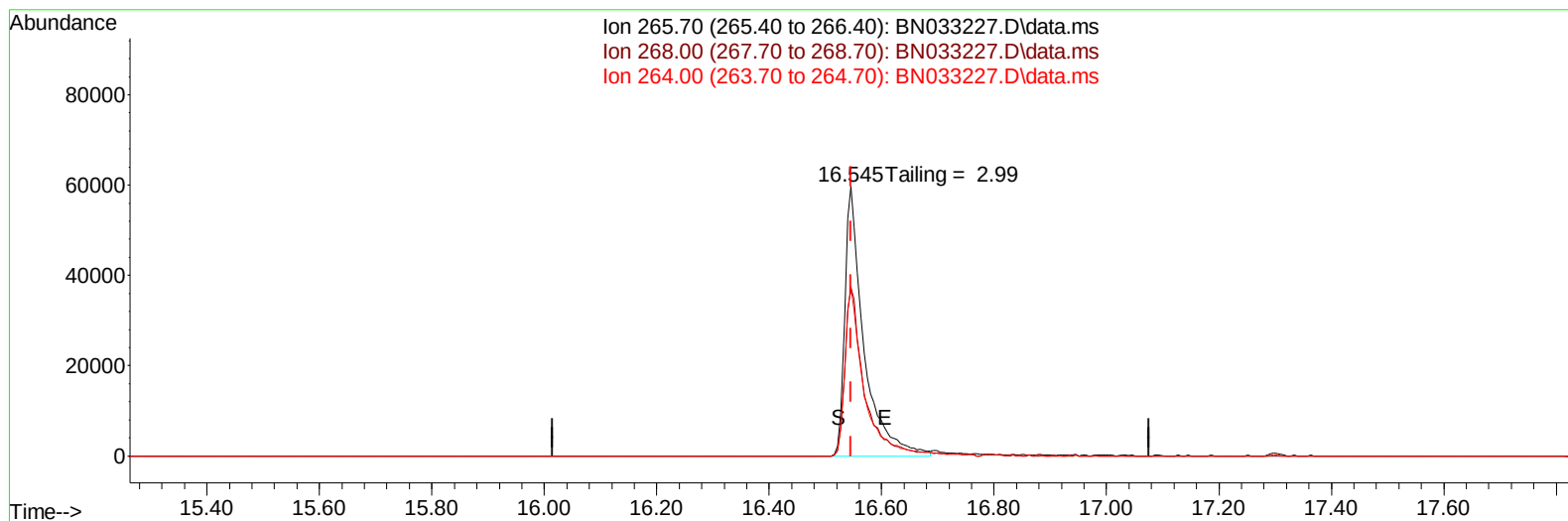
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/3/2024	BNA_N	<u>BN033227.D</u>
Compound Name	Response	Retention Time
DDT	447194	20.38
DDD	59146	19.945
DDE	2418	19.427
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
61564	508758	12.10

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 08:08:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 08:08:34 2024
Response via : Initial Calibration



TIC: BN033227.D\data.ms

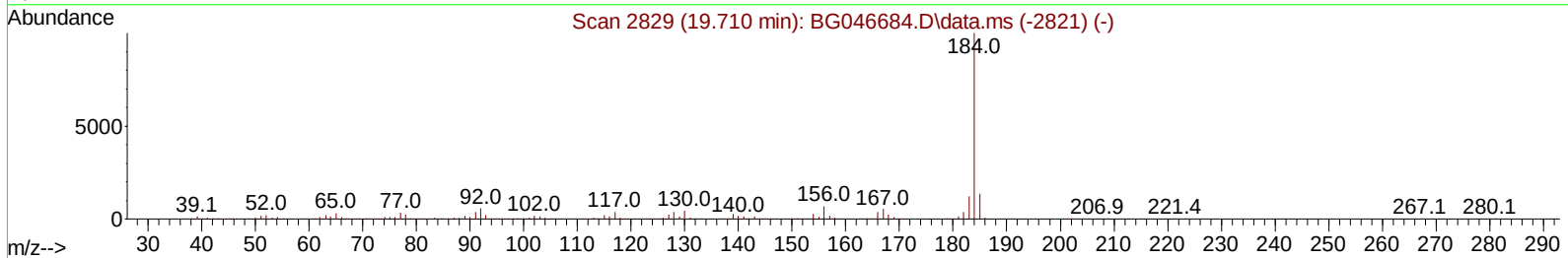
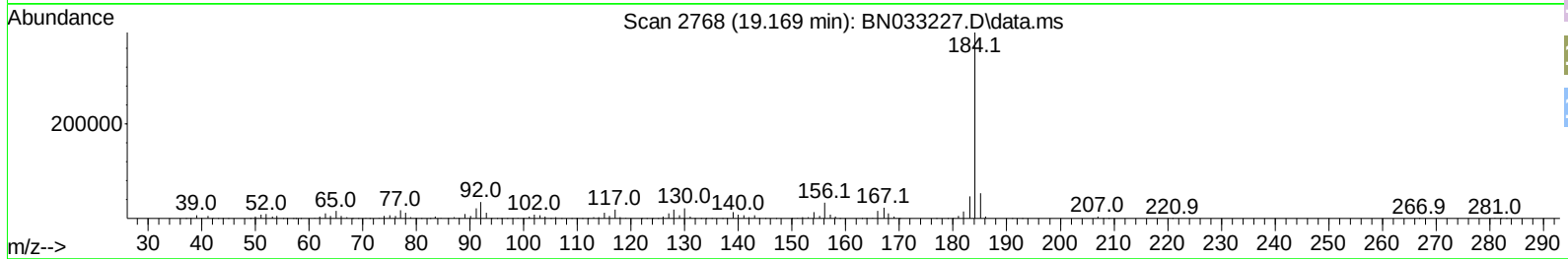
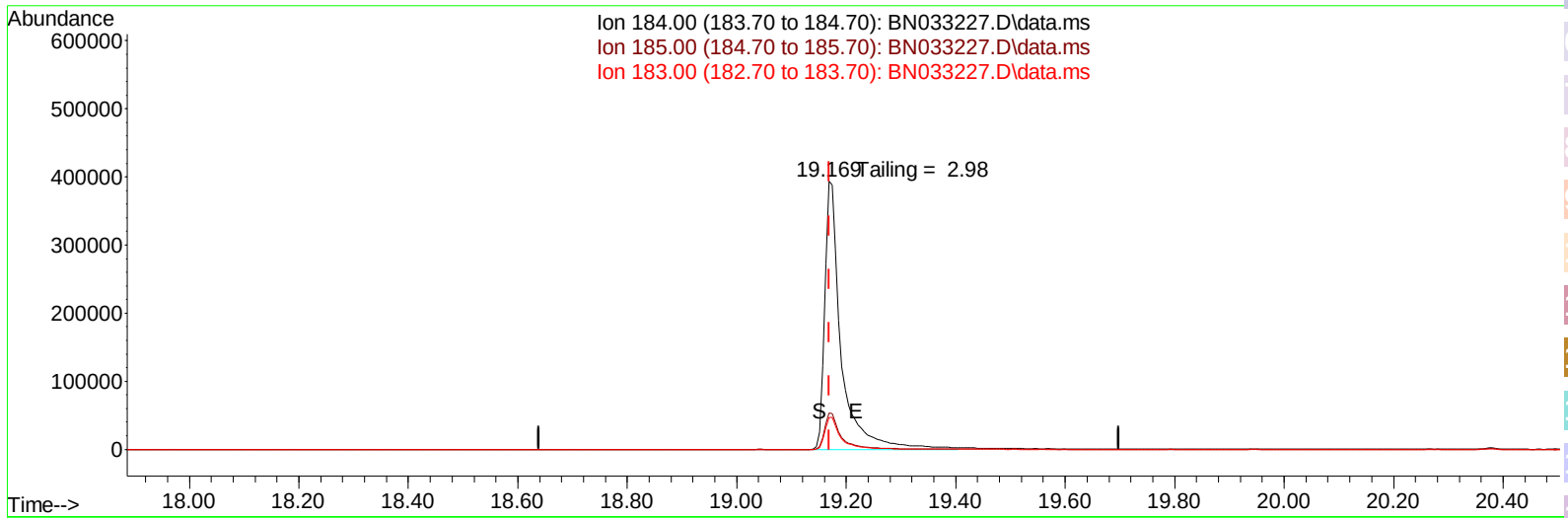
(70) Pentachlorophenol (C)**16.545min (0.000) 16263.43 ng****response 140905**

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.48
264.00	61.60	62.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033227.D
Acq On : 03 Aug 2024 07:20
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 03 08:08:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Aug 03 08:08:34 2024
Response via : Initial Calibration



TIC: BN033227.D\data.ms

(77) Benzidine

19.169min (0.000) 0.00 ng

response 845092

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.69
183.00	13.20	11.93
0.00	0.00	0.00

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162424BL	SDG No.:	P3426
Lab Sample ID:	PB162424BL	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
BN033213.D	1	08/01/24 08:58	08/02/24 22:12	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.020	U	0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.030	U	0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.020	U	0.020	0.10	ug/L
83-32-9	Acenaphthene	0.020	U	0.020	0.10	ug/L
86-73-7	Fluorene	0.020	U	0.020	0.10	ug/L
85-01-8	Phenanthrene	0.020	U	0.020	0.10	ug/L
120-12-7	Anthracene	0.020	U	0.020	0.10	ug/L
206-44-0	Fluoranthene	0.020	U	0.020	0.10	ug/L
129-00-0	Pyrene	0.020	U	0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.020	U	0.020	0.10	ug/L
218-01-9	Chrysene	0.030	U	0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.030	U	0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.030	U	0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.060	U	0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.040	U	0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.040	U	0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.040	U	0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 (30) - 150 (150)	78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 (30) - 150 (150)	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		30 (11) - 130 (175)	95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		30 (10) - 130 (175)	84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (54) - 130 (171)	92%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1880	7.604			
1146-65-2	Naphthalene-d8	6150	10.436			
15067-26-2	Acenaphthene-d10	3520	14.197			
1517-22-2	Phenanthrene-d10	6020	16.989			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162424BL	SDG No.:	P3426
Lab Sample ID:	PB162424BL	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
BN033213.D	1	08/01/24 08:58	08/02/24 22:12	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	5070	21.158			
1520-96-3	Perylene-d12	6140	23.33			

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\BN080324\
Data File : BN033213.D
Acq On : 02 Aug 2024 22:12
Operator : MA/JU
Sample : PB162424BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB162424BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 01:10:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	1883m	0.400	ng	0.10
7) Naphthalene-d8	10.436	136	6150m	0.400	ng	0.15
13) Acenaphthene-d10	14.197	164	3521m	0.400	ng	0.06
19) Phenanthrene-d10	16.989	188	6022m	0.400	ng	0.07
29) Chrysene-d12	21.158	240	5074	0.400	ng	0.02
35) Perylene-d12	23.330	264	6136	0.400	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.271	112	1680m	0.353	ng	0.03
5) Phenol-d6	7.199	99	2561m	0.433	ng	0.32
8) Nitrobenzene-d5	9.134	82	1766m	0.381	ng	0.32
11) 2-Methylnaphthalene-d10	12.045	152	2943m	0.313	ng	0.14
14) 2,4,6-Tribromophenol	15.798	330	289m	0.192	ng	0.08
15) 2-Fluorobiphenyl	12.893	172	4416m	0.337	ng	0.10
27) Fluoranthene-d10	18.990	212	5036	0.323	ng	0.03
31) Terphenyl-d14	19.575	244	3828	0.368	ng	0.01

Target Compounds Qvalue

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

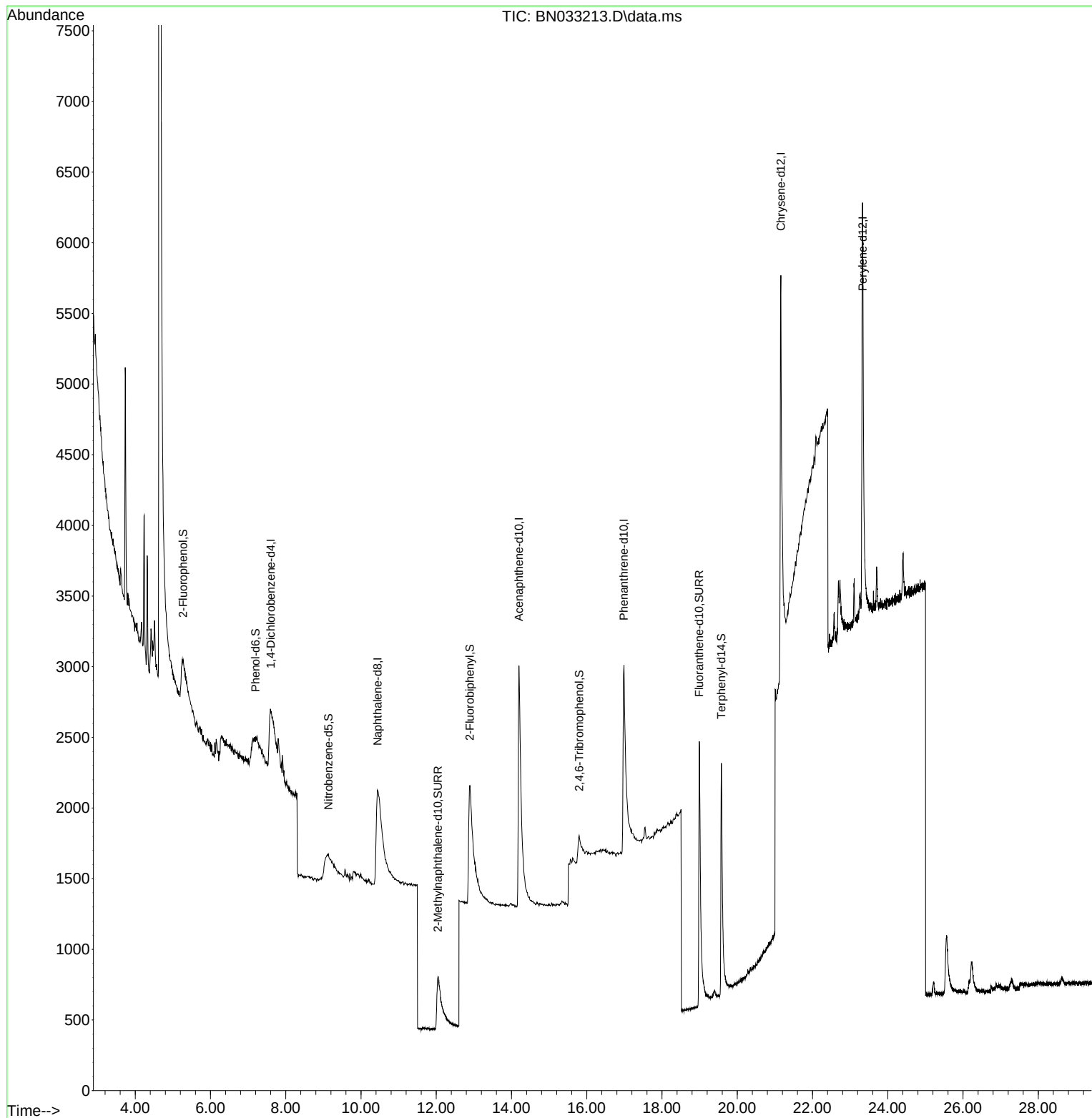
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
Data File : BN033213.D
Acq On : 02 Aug 2024 22:12
Operator : MA/JU
Sample : PB162424BL
Misc :
ALS Vial : 14 Sample Multiplier: 1

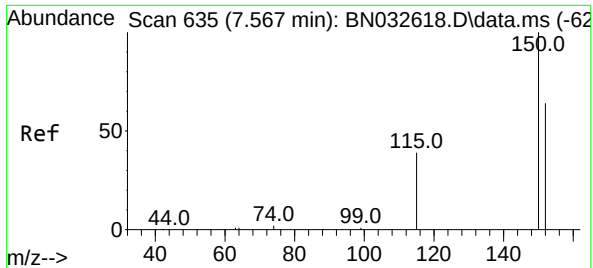
Instrument :
BNA_N
ClientSampleId :
PB162424BL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

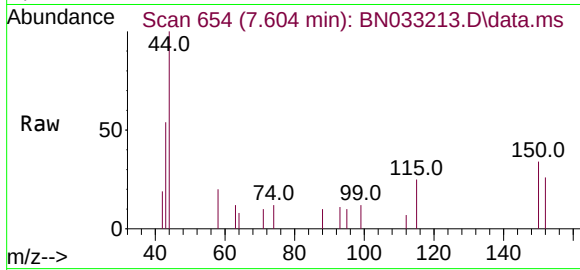
Quant Time: Aug 03 01:10:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 02 22:49:47 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng m
RT: 7.604 min Scan# 61
Delta R.T. 0.101 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

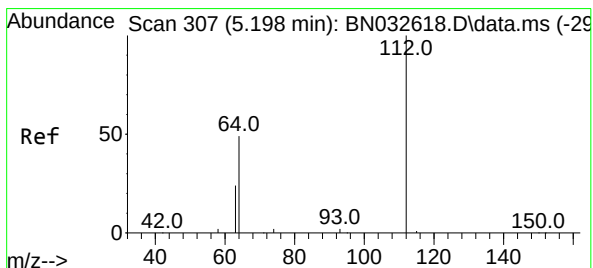
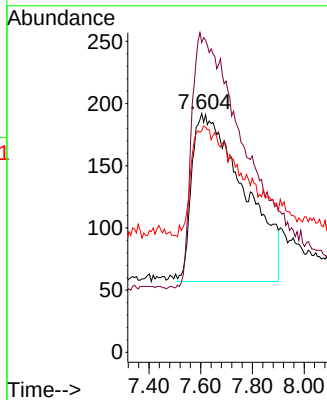
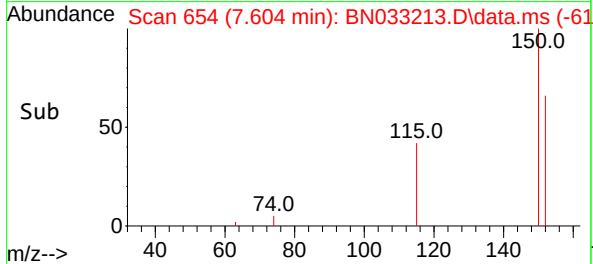
Instrument :
BNA_N
ClientSampleId :
PB162424BL



Tgt Ion:152 Resp: 188
Ion Ratio Lower Upper
152 100
150 129.7 123.8 185.6
115 92.7 52.8 79.2

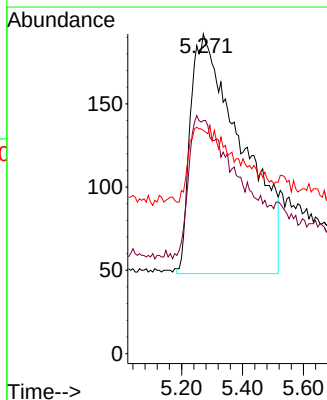
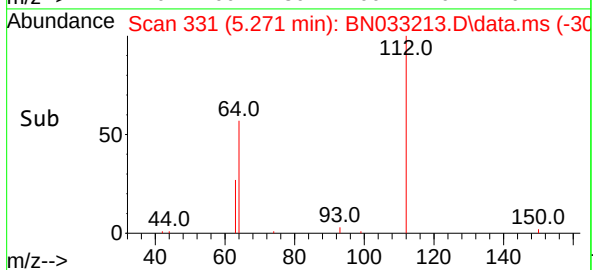
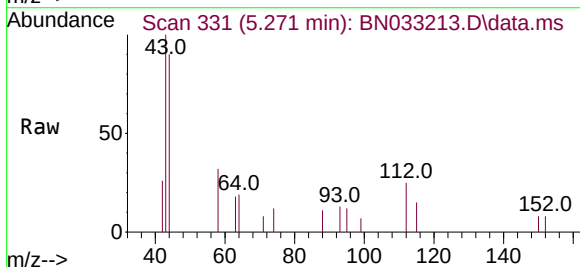
Manual Integrations
APPROVED

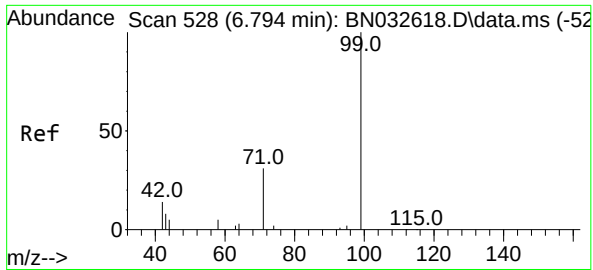
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.353 ng m
RT: 5.271 min Scan# 331
Delta R.T. 0.029 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

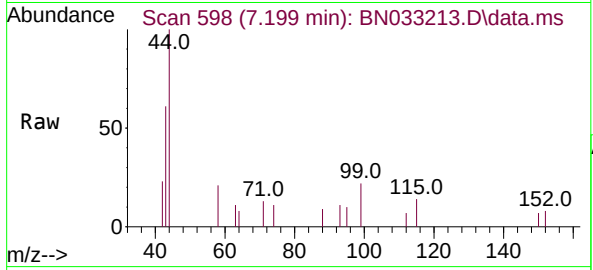
Tgt Ion:112 Resp: 1680
Ion Ratio Lower Upper
112 100
64 0.0 40.2 60.4#
63 0.0 22.2 33.4#





#5
Phenol-d6
Concen: 0.433 ng m
RT: 7.199 min Scan# 528
Delta R.T. 0.318 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

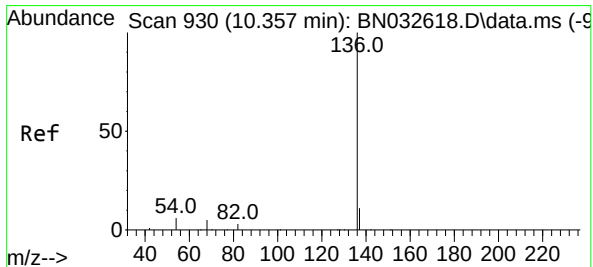
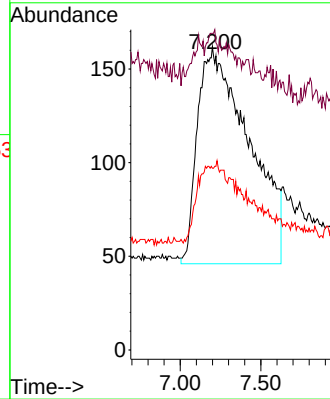
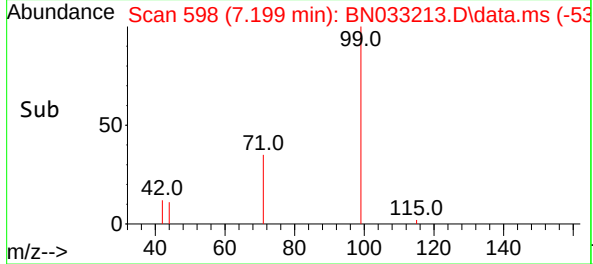
Instrument :
BNA_N
ClientSampleId :
PB162424BL



Tgt Ion: 99 Resp: 256
Ion Ratio Lower Upper
99 100
42 0.0 10.5 15.7
71 10.9 22.3 33.5

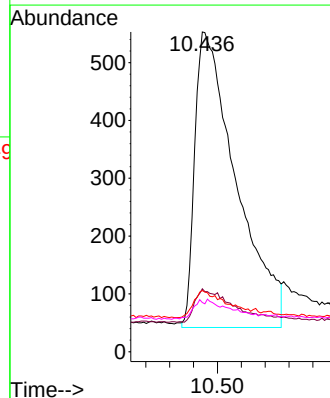
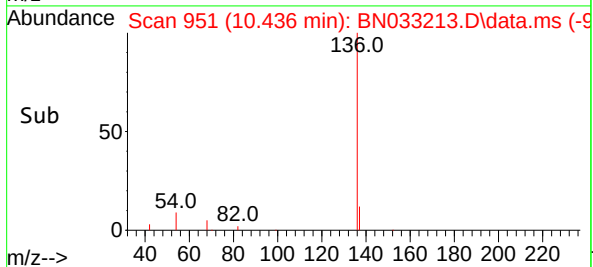
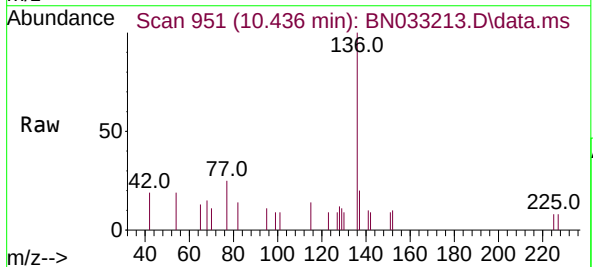
Manual Integrations
APPROVED

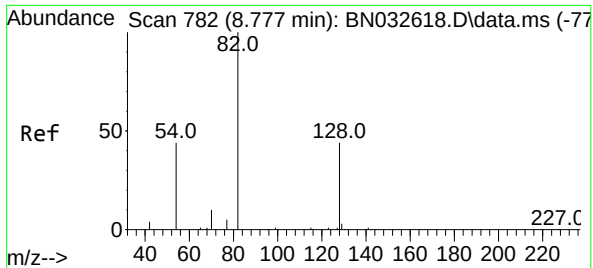
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#7
Naphthalene-d8
Concen: 0.400 ng m
RT: 10.436 min Scan# 951
Delta R.T. 0.150 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

Tgt Ion:136 Resp: 6150
Ion Ratio Lower Upper
136 100
137 19.7 9.9 14.9#
54 19.2 6.5 9.7#
68 15.4 5.8 8.8#





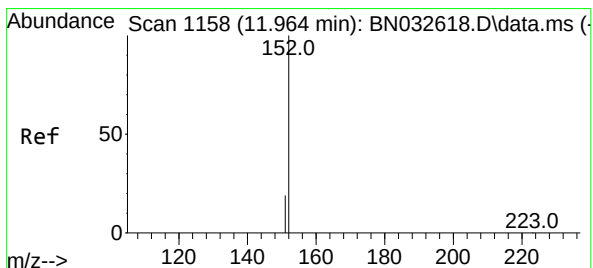
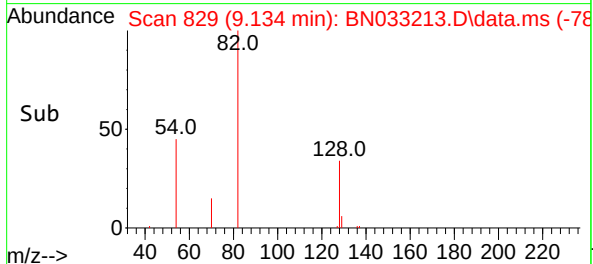
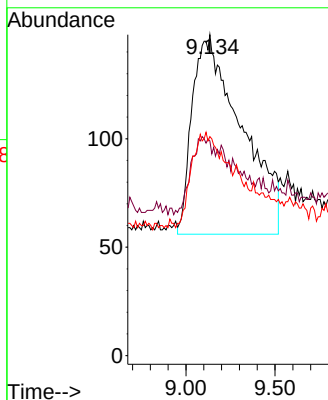
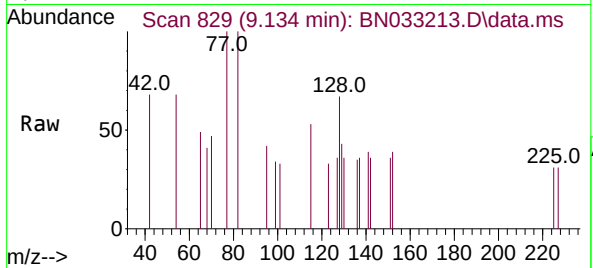
#8
Nitrobenzene-d5
Concen: 0.381 ng m
RT: 9.134 min Scan# 81
Delta R.T. 0.320 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

Instrument :
BNA_N
ClientSampleId :
PB162424BL

Tgt Ion: 82 Resp: 1760
Ion Ratio Lower Upper
82 100
128 66.9 41.7 62.5
54 68.2 39.5 59.3

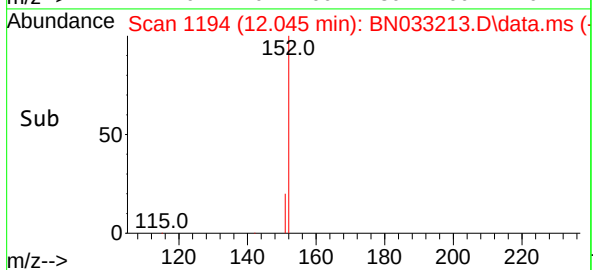
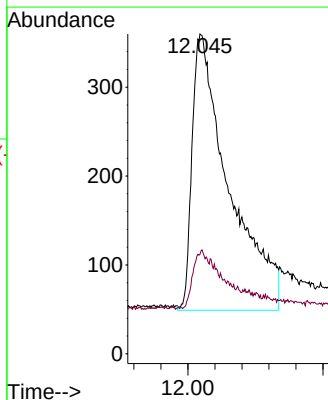
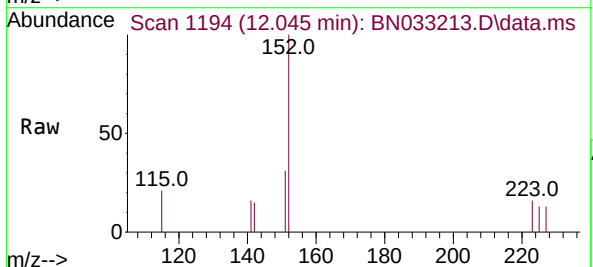
Manual Integrations
APPROVED

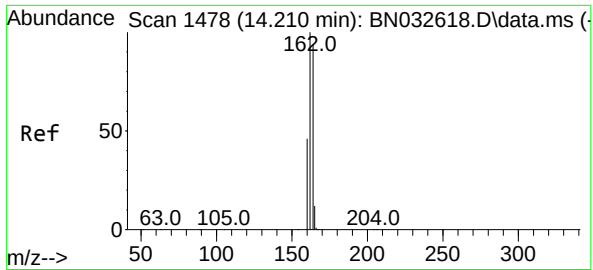
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#11
2-Methylnaphthalene-d10
Concen: 0.313 ng m
RT: 12.045 min Scan# 1194
Delta R.T. 0.144 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

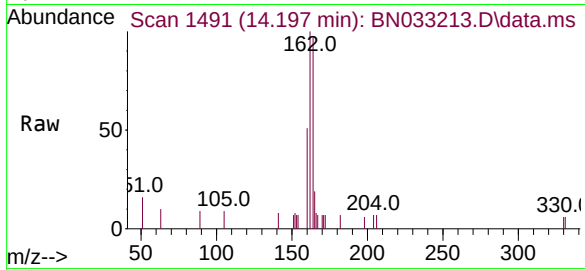
Tgt Ion:152 Resp: 2943
Ion Ratio Lower Upper
152 100
151 8.3 16.2 24.2





#13
Acenaphthene-d10
Concen: 0.400 ng m
RT: 14.197 min Scan# 1478
Delta R.T. 0.061 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

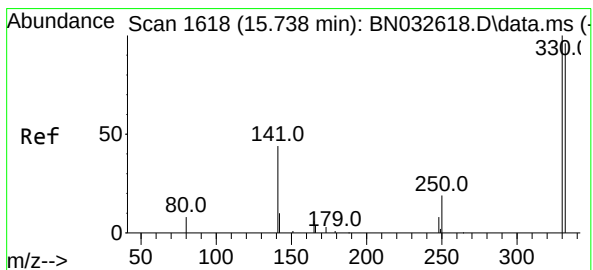
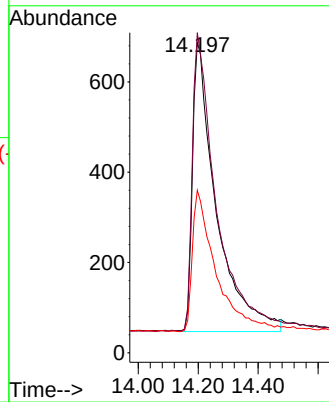
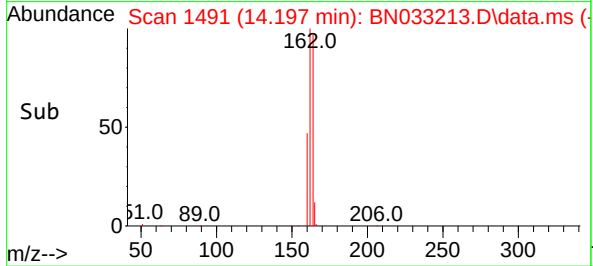
Instrument :
BNA_N
ClientSampleId :
PB162424BL



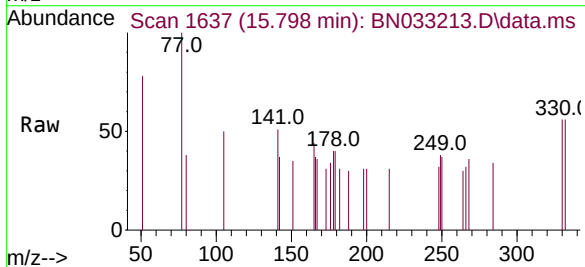
Tgt Ion:164 Resp: 352
Ion Ratio Lower Upper
164 100
162 103.2 85.0 127.4
160 52.4 39.4 59.2

Manual Integrations
APPROVED

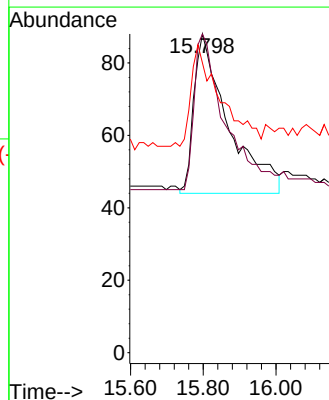
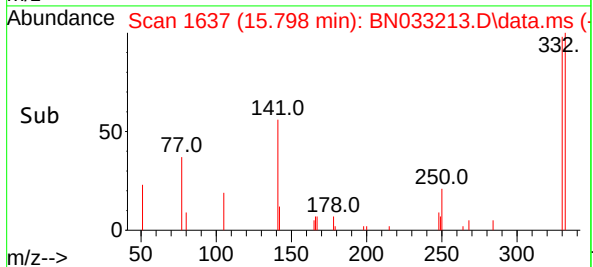
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

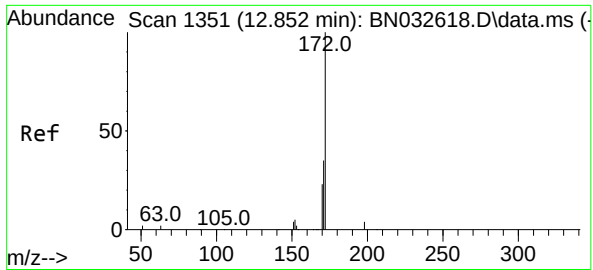


#14
2,4,6-Tribromophenol
Concen: 0.192 ng m
RT: 15.798 min Scan# 1637
Delta R.T. 0.082 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12



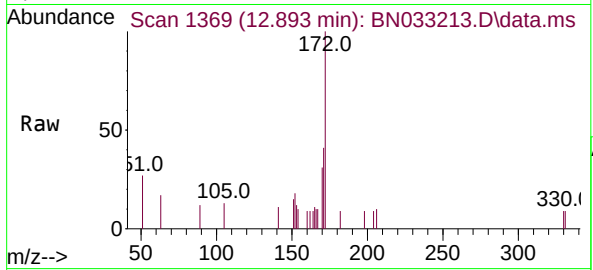
Tgt Ion:330 Resp: 289
Ion Ratio Lower Upper
330 100
332 81.7 77.8 116.8
141 52.9 34.2 51.2#





#15
2-Fluorobiphenyl
Concen: 0.337 ng m
RT: 12.893 min Scan# 1733
Delta R.T. 0.103 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

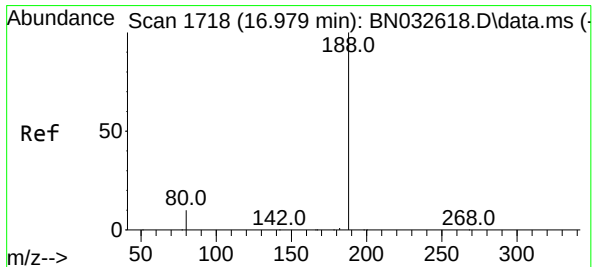
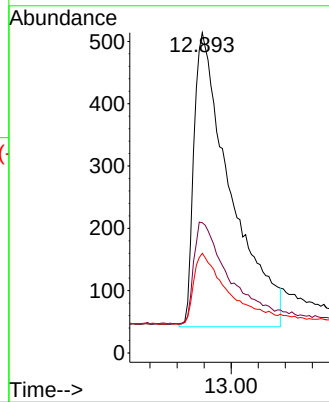
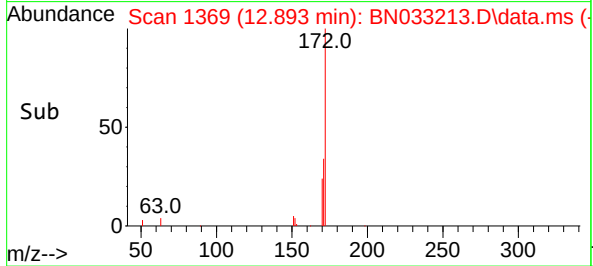
Instrument :
BNA_N
ClientSampleId :
PB162424BL



Tgt Ion:172 Resp: 4410
Ion Ratio Lower Upper
172 100
171 40.7 28.6 43.0
170 31.1 19.0 28.6

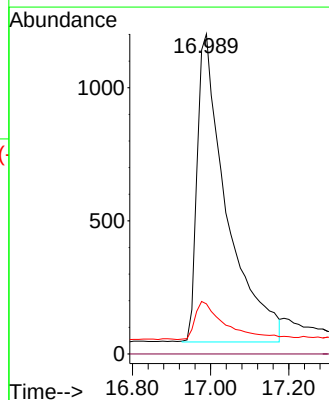
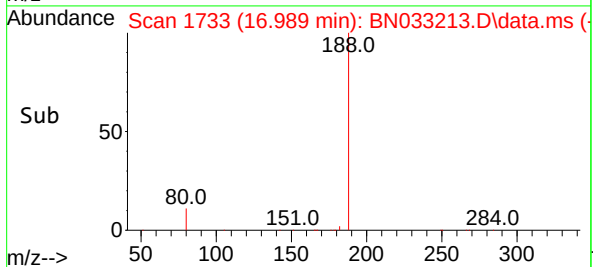
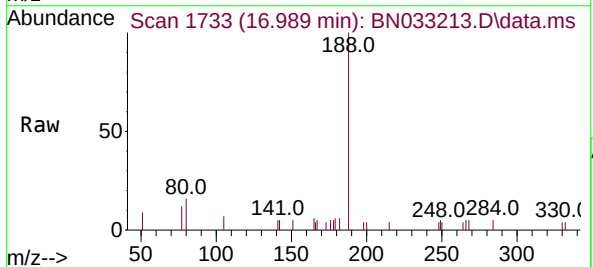
Manual Integrations
APPROVED

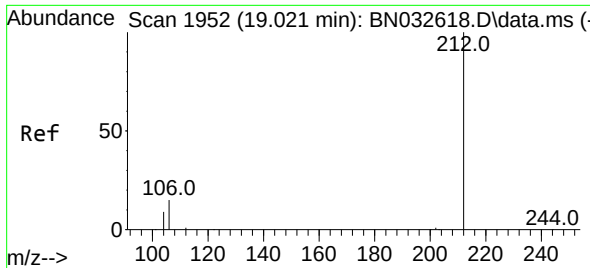
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#19
Phenanthrene-d10
Concen: 0.400 ng m
RT: 16.989 min Scan# 1733
Delta R.T. 0.069 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

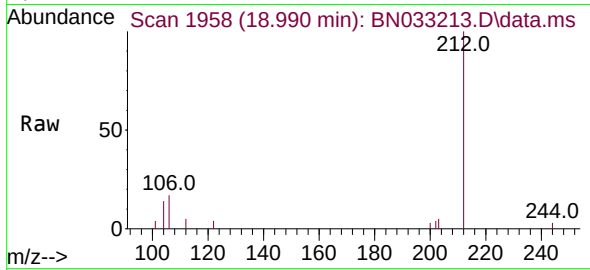
Tgt Ion:188 Resp: 6022
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.6 8.8 13.2#





#27
Fluoranthene-d10
Concen: 0.323 ng
RT: 18.990 min Scan# 1952
Delta R.T. 0.030 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

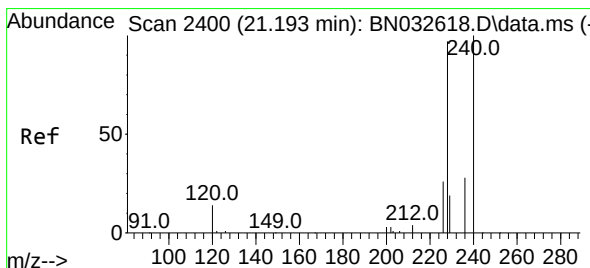
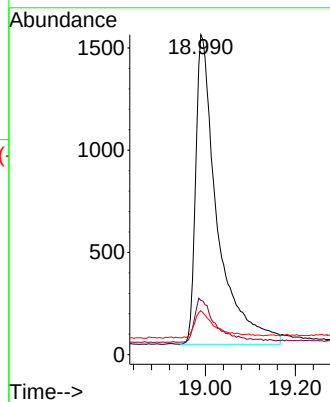
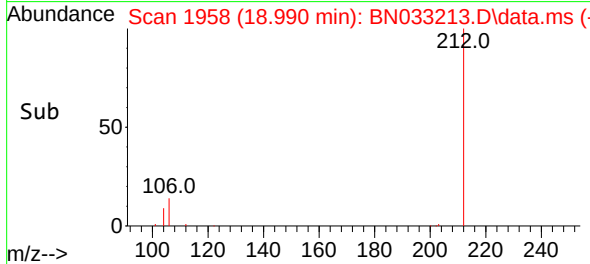
Instrument :
BNA_N
ClientSampleId :
PB162424BL



Tgt Ion:212 Resp: 5030
Ion Ratio Lower Upper
212 100
106 13.5 11.9 17.9
104 8.3 6.9 10.3

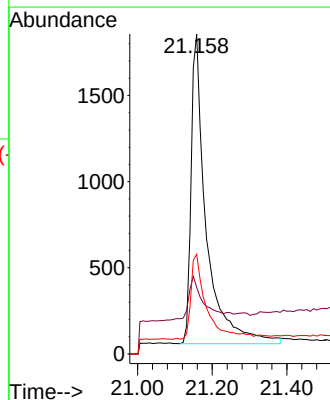
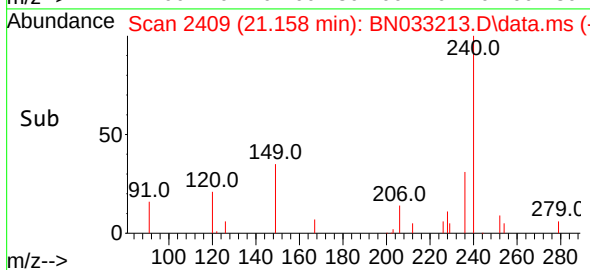
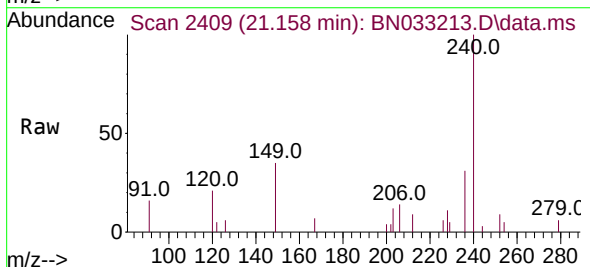
Manual Integrations
APPROVED

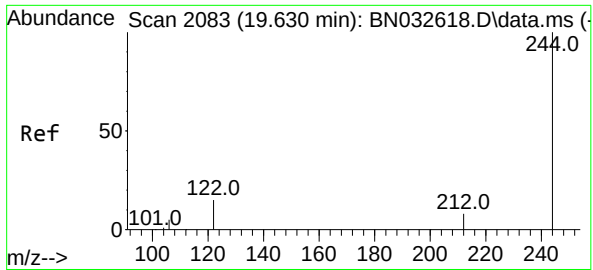
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.158 min Scan# 2409
Delta R.T. 0.025 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

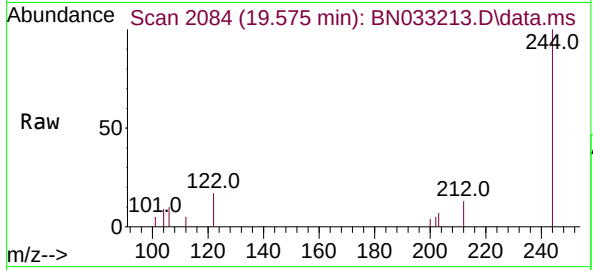
Tgt Ion:240 Resp: 5074
Ion Ratio Lower Upper
240 100
120 20.8 14.8 22.2
236 31.1 23.3 34.9





#31
Terphenyl-d14
Concen: 0.368 ng
RT: 19.575 min Scan# 2083
Delta R.T. 0.012 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

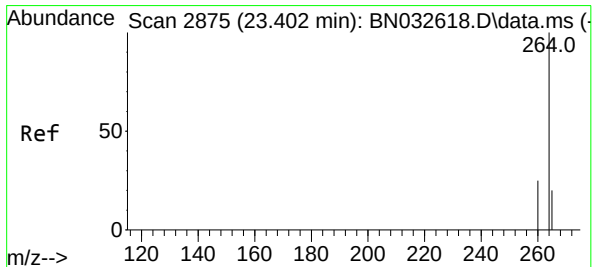
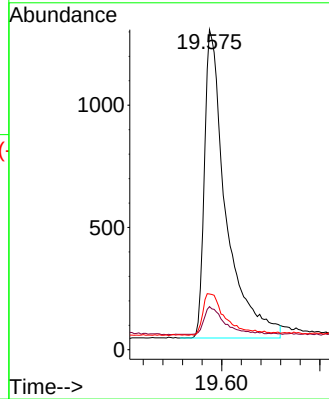
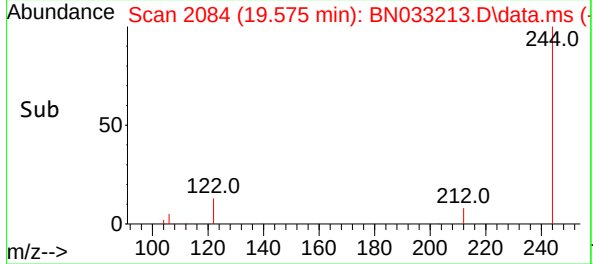
Instrument :
BNA_N
ClientSampleId :
PB162424BL



Tgt Ion:244 Resp: 3828
Ion Ratio Lower Upper
244 100
212 13.4 7.5 11.3
122 17.4 12.6 19.0

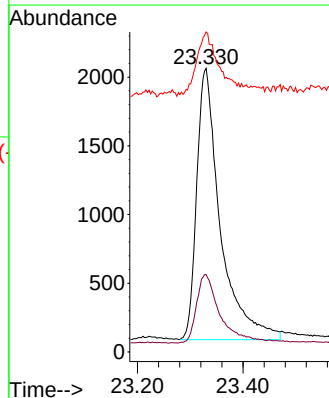
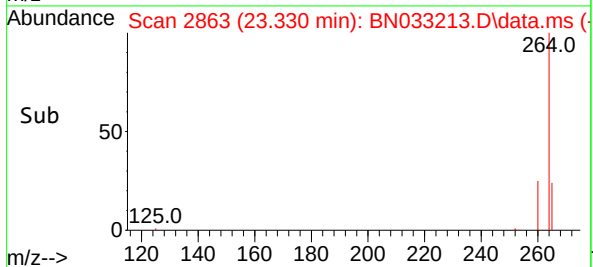
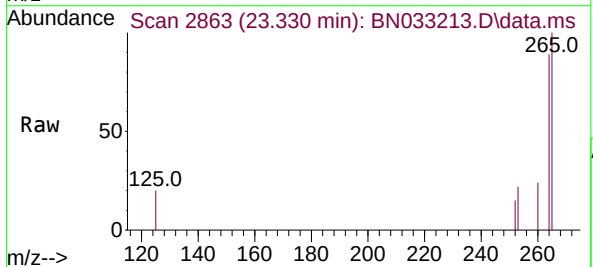
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.330 min Scan# 2863
Delta R.T. 0.015 min
Lab File: BN033213.D
Acq: 02 Aug 2024 22:12

Tgt Ion:264 Resp: 6136
Ion Ratio Lower Upper
264 100
260 27.3 20.9 31.3
265 112.9 85.4 128.2



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162424BS	SDG No.:	P3426
Lab Sample ID:	PB162424BS	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
BN033214.D	1	08/01/24 08:58	08/02/24 22:48	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.37		0.020	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.32		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.39		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.39		0.020	0.10	ug/L
86-73-7	Fluorene	0.35		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.35		0.020	0.10	ug/L
120-12-7	Anthracene	0.36		0.020	0.10	ug/L
206-44-0	Fluoranthene	0.32		0.020	0.10	ug/L
129-00-0	Pyrene	0.37		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.30		0.020	0.10	ug/L
218-01-9	Chrysene	0.40		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.30		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.34		0.030	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.35		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.39		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.39		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.40		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.48		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (30) - 150 (150)	88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 (30) - 150 (150)	81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		30 (11) - 130 (175)	97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (10) - 130 (175)	87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		30 (54) - 130 (171)	88%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2340	7.51			
1146-65-2	Naphthalene-d8	7750	10.297			
15067-26-2	Acenaphthene-d10	4860	14.147			
1517-22-2	Phenanthrene-d10	8690	16.932			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger Site Princeton NJ	Date Received:	
Client Sample ID:	PB162424BS	SDG No.:	P3426
Lab Sample ID:	PB162424BS	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
BN033214.D	1	08/01/24 08:58	08/02/24 22:48	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	6220	21.142			
1520-96-3	Perylene-d12	7160	23.317			

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\BN080324\
 Data File : BN033214.D
 Acq On : 02 Aug 2024 22:48
 Operator : MA/JU
 Sample : PB162424BS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB162424BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 01:10:59 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	2342	0.400	ng	0.00
7) Naphthalene-d8	10.297	136	7752	0.400	ng	# 0.01
13) Acenaphthene-d10	14.147	164	4855	0.400	ng	0.01
19) Phenanthrene-d10	16.932	188	8693	0.400	ng	0.01
29) Chrysene-d12	21.142	240	6222	0.400	ng	0.00
35) Perylene-d12	23.317	264	7164	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.249	112	2793m	0.471	ng	0.00
5) Phenol-d6	6.918	99	3603m	0.490	ng	0.04
8) Nitrobenzene-d5	8.845	82	2255	0.386	ng	0.03
11) 2-Methylnaphthalene-d10	11.916	152	4158	0.351	ng	0.02
14) 2,4,6-Tribromophenol	15.728	330	480	0.231	ng	0.01
15) 2-Fluorobiphenyl	12.800	172	6304	0.349	ng	0.01
27) Fluoranthene-d10	18.969	212	7319	0.325	ng	0.00
31) Terphenyl-d14	19.568	244	4515	0.354	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.083	88	1391	0.479	ng	# 86
3) n-Nitrosodimethylamine	3.480	42	1083	0.442	ng	83
6) bis(2-Chloroethyl)ether	7.033	93	2402m	0.391	ng	
9) Naphthalene	10.351	128	8012	0.373	ng	97
10) Hexachlorobutadiene	10.532	225	1586	0.387	ng	# 97
12) 2-Methylnaphthalene	11.992	142	4526	0.323	ng	# 96
16) Acenaphthylene	13.880	152	7610	0.385	ng	98
17) Acenaphthene	14.211	154	5415	0.387	ng	99
18) Fluorene	15.227	166	6627	0.354	ng	98
20) 4,6-Dinitro-2-methylph...	15.617	198	69	0.330	ng	# 1
21) 4-Bromophenyl-phenylether	16.126	248	1870	0.366	ng	93
22) Hexachlorobenzene	16.212	284	2040	0.357	ng	# 88
23) Atrazine	16.424	200	1378	0.366	ng	97
24) Pentachlorophenol	16.647	266	412	0.194	ng	95
25) Phenanthrene	16.970	178	8217	0.346	ng	100
26) Anthracene	17.081	178	7042m	0.360	ng	
28) Fluoranthene	19.001	202	9244	0.322	ng	99
30) Pyrene	19.368	202	9403	0.370	ng	100
32) Benzo(a)anthracene	21.133	228	5822	0.296	ng	98
33) Chrysene	21.178	228	9265m	0.396	ng	
34) Bis(2-ethylhexyl)phtha...	21.008	149	4439	0.408	ng	# 95
36) Indeno(1,2,3-cd)pyrene	25.522	276	11060	0.392	ng	99
37) Benzo(b)fluoranthene	22.668	252	7598	0.304	ng	94
38) Benzo(k)fluoranthene	22.709	252	9673	0.339	ng	95
39) Benzo(a)pyrene	23.238	252	7891	0.351	ng	95
40) Dibenzo(a,h)anthracene	25.519	278	8674	0.389	ng	95
41) Benzo(g,h,i)perylene	26.191	276	9810	0.397	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033214.D
 Acq On : 02 Aug 2024 22:48
 Operator : MA/JU
 Sample : PB162424BS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB162424BS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024

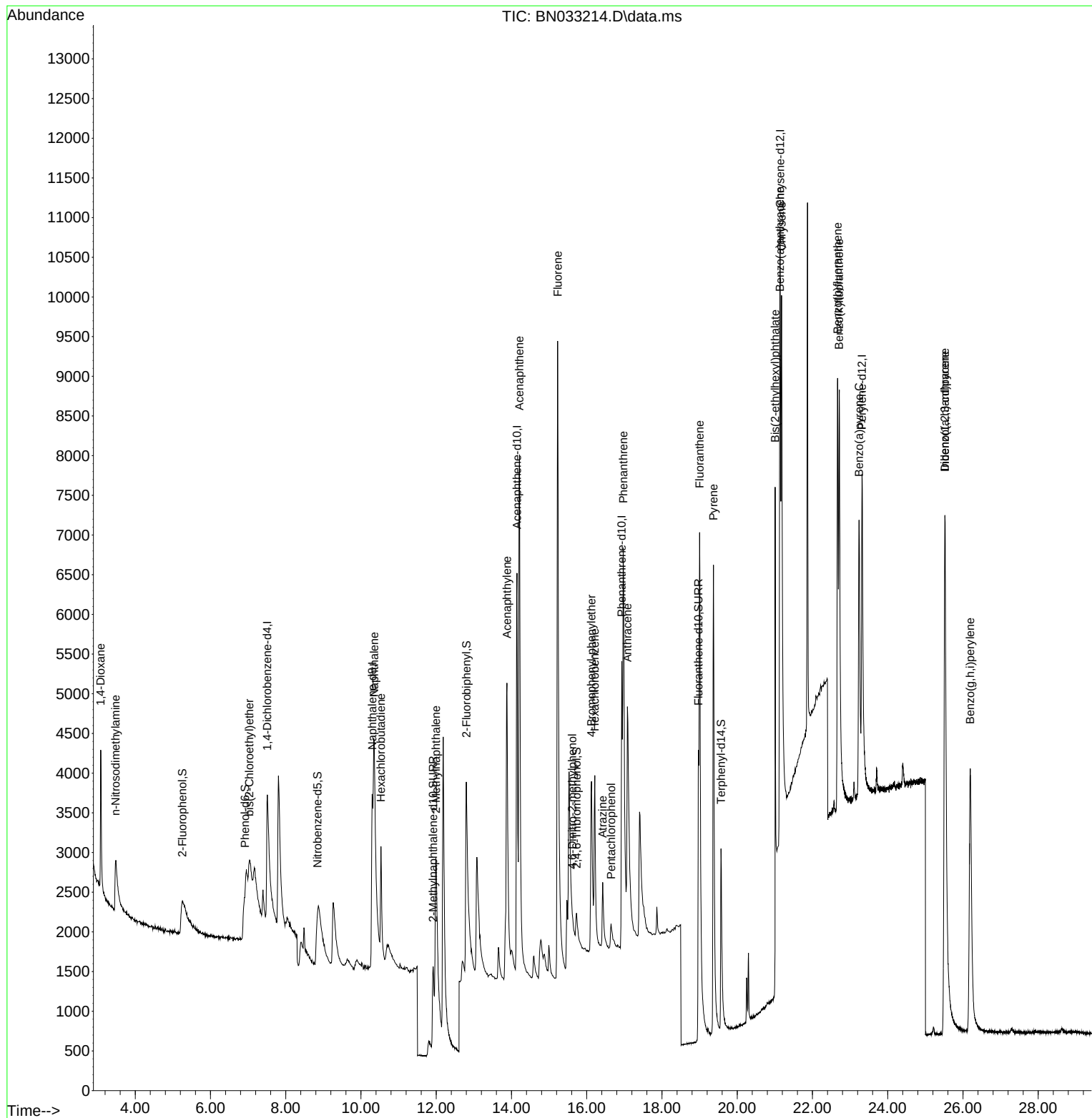
Quant Time: Aug 03 01:10:59 2024

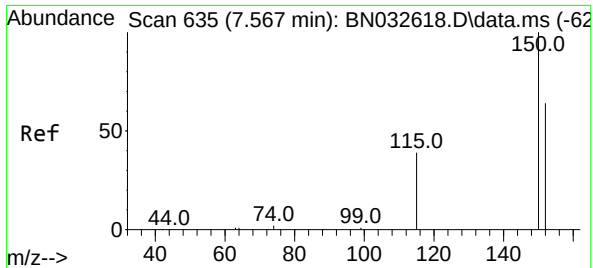
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 02 22:49:47 2024

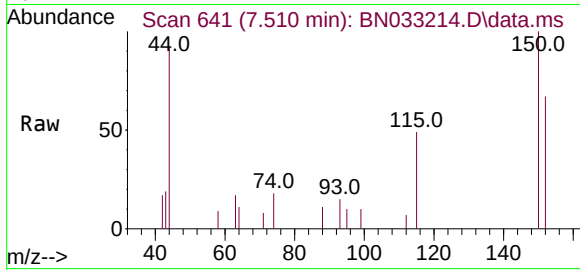
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.510 min Scan# 641
Delta R.T. 0.007 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

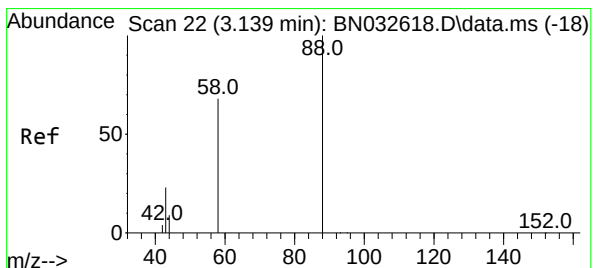
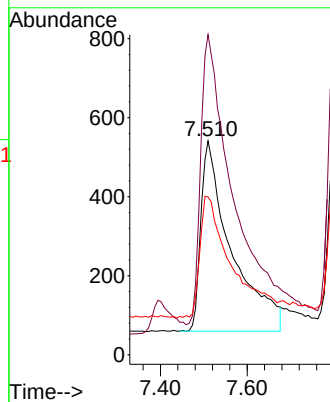
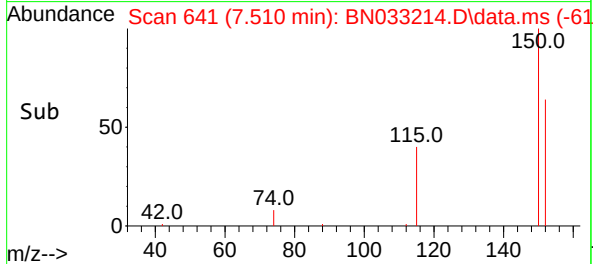
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion: 152 Resp: 234
Ion Ratio Lower Upper
152 100
150 149.7 123.8 185.6
115 73.8 52.8 79.2

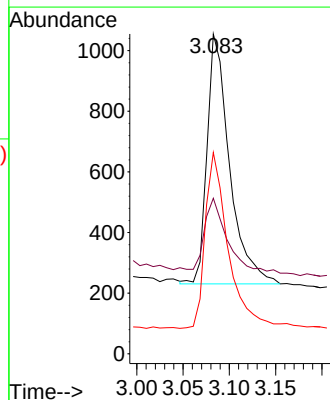
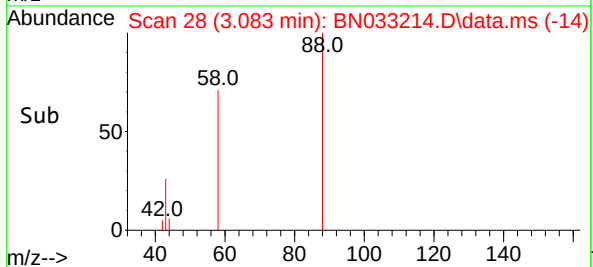
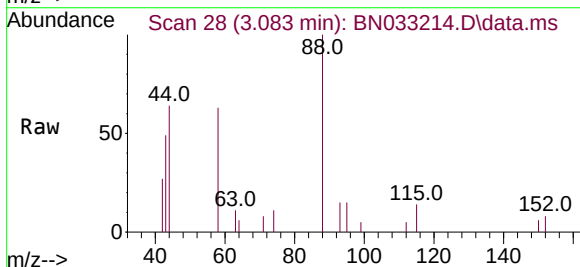
Manual Integrations
APPROVED

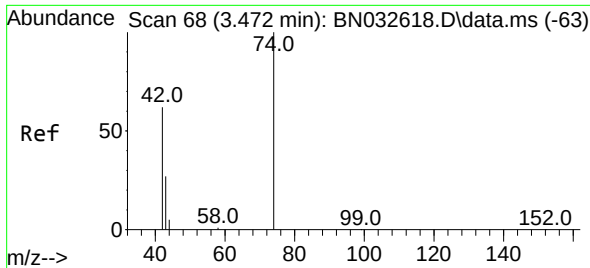
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.479 ng
RT: 3.083 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

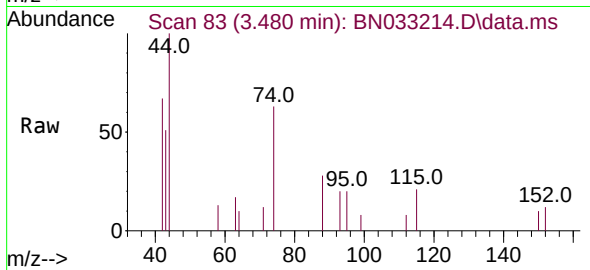
Tgt Ion: 88 Resp: 1391
Ion Ratio Lower Upper
88 100
43 30.7 18.4 27.6#
58 71.5 49.2 73.8





#3
n-Nitrosodimethylamine
Concen: 0.442 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

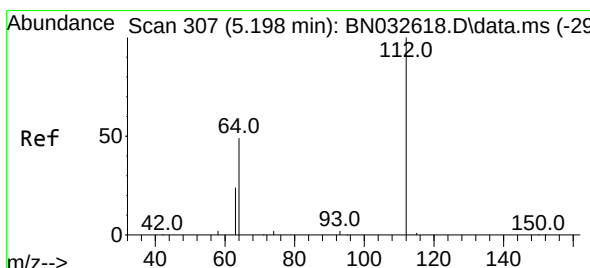
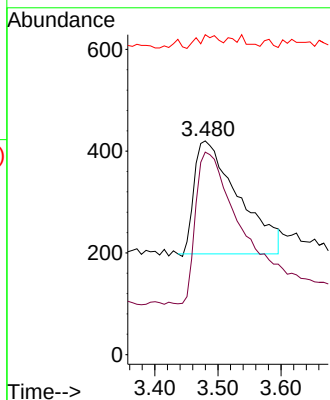
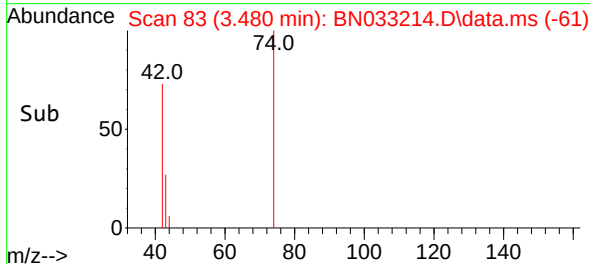
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion: 42 Resp: 108
Ion Ratio Lower Upper
42 100
74 134.8 126.9 190.3
44 5.6 4.8 7.2

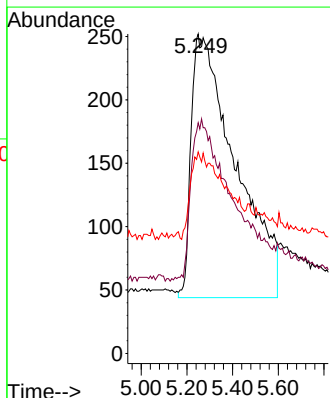
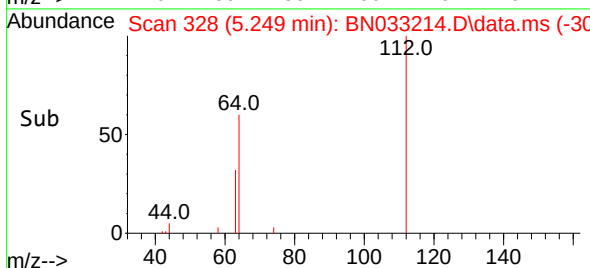
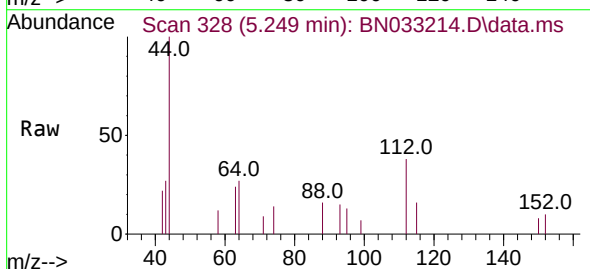
Manual Integrations
APPROVED

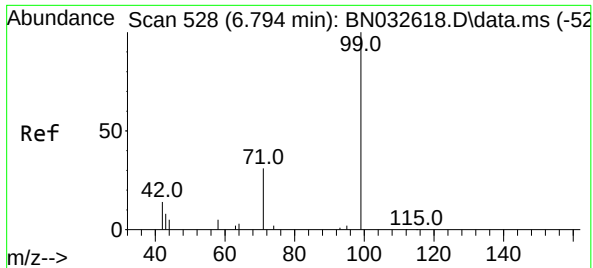
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.471 ng m
RT: 5.249 min Scan# 328
Delta R.T. 0.007 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:112 Resp: 2793
Ion Ratio Lower Upper
112 100
64 44.2 40.2 60.4
63 8.3 22.2 33.4#





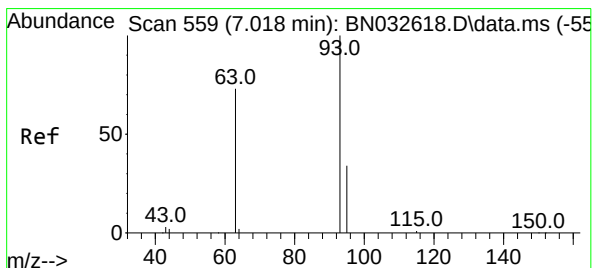
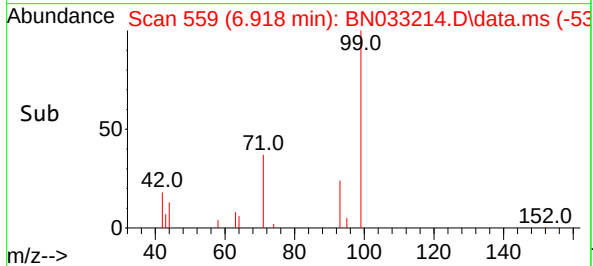
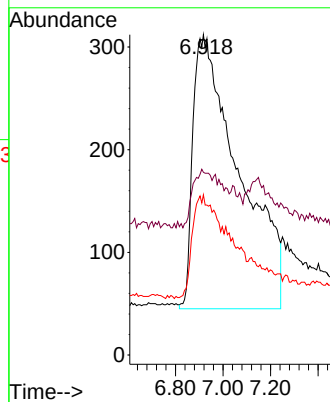
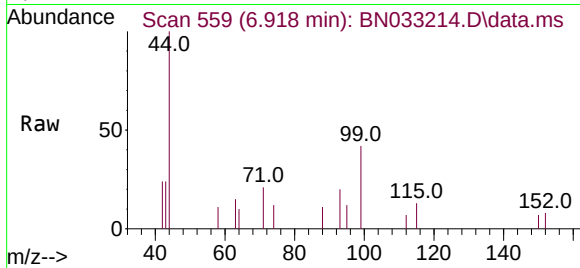
#5
Phenol-d6
Concen: 0.490 ng m
RT: 6.918 min Scan# 518
Delta R.T. 0.036 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Instrument :
BNA_N
ClientSampleId :
PB162424BS

Tgt Ion: 99 Resp: 360
Ion Ratio Lower Upper
99 100
42 8.2 10.5 15.7
71 29.7 22.3 33.5

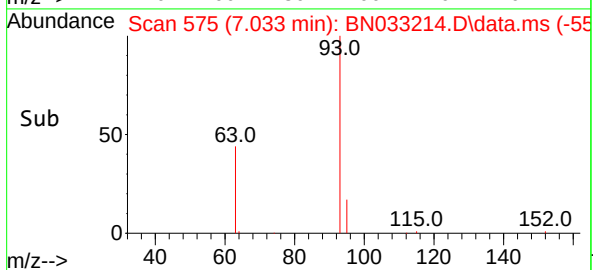
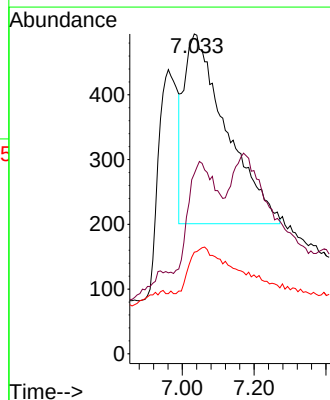
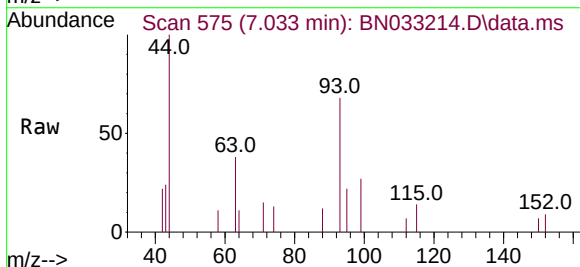
Manual Integrations
APPROVED

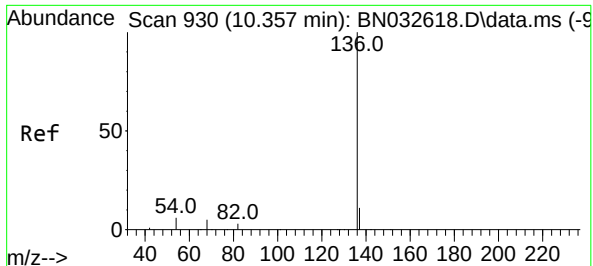
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng m
RT: 7.033 min Scan# 575
Delta R.T. 0.022 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

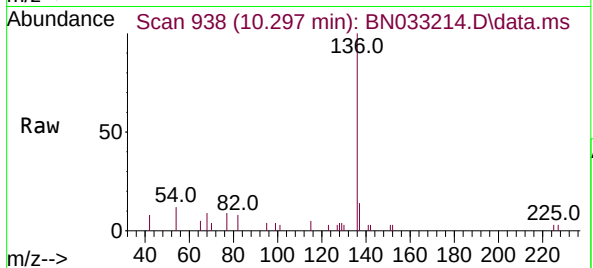
Tgt Ion: 93 Resp: 2402
Ion Ratio Lower Upper
93 100
63 39.5 46.4 69.6#
95 0.0 25.5 38.3#





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.297 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

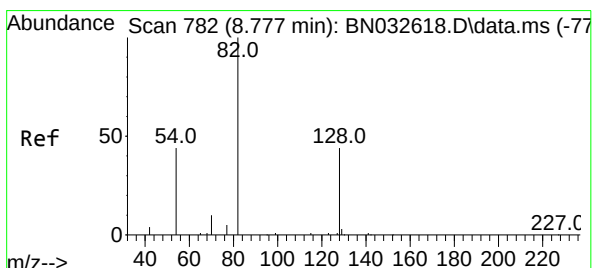
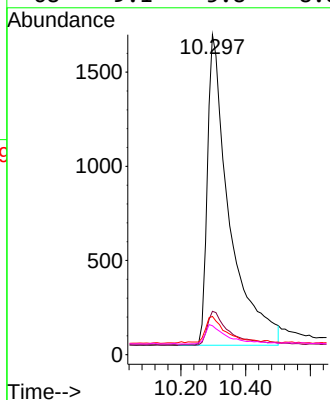
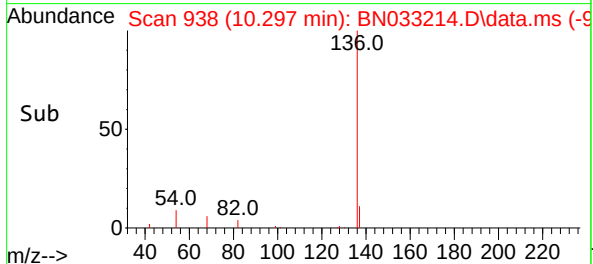
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion: 136 Resp: 775
Ion Ratio Lower Upper
136 100
137 13.5 9.9 14.9
54 11.9 6.5 9.7
68 9.1 5.8 8.8#

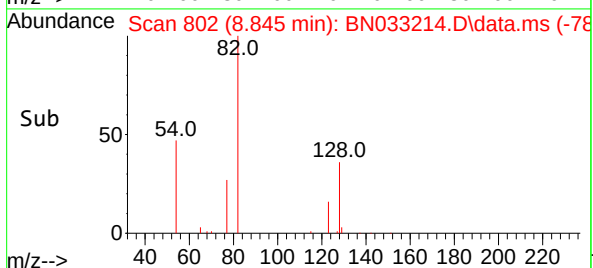
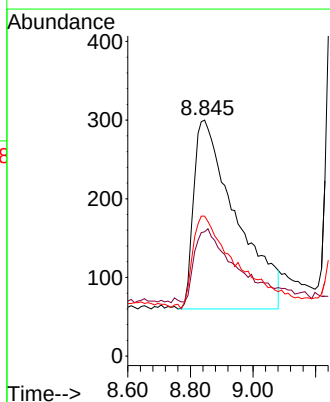
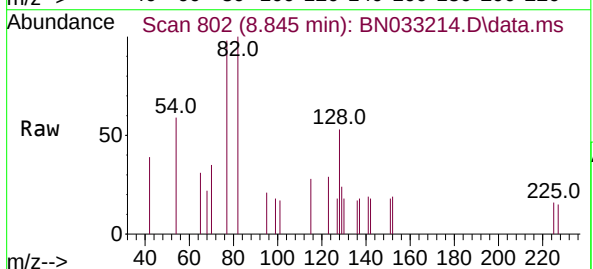
Manual Integrations
APPROVED

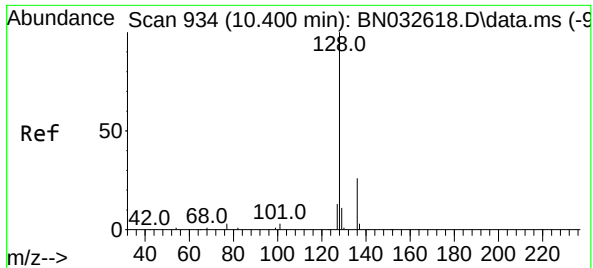
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.845 min Scan# 802
Delta R.T. 0.032 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion: 82 Resp: 2255
Ion Ratio Lower Upper
82 100
128 52.7 41.7 62.5
54 59.3 39.5 59.3#





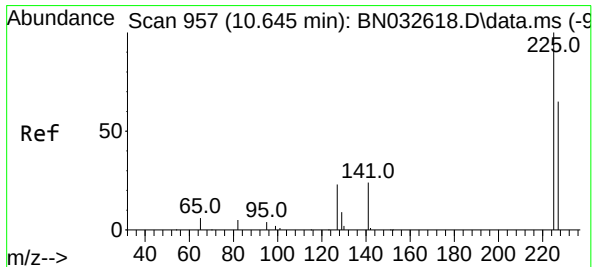
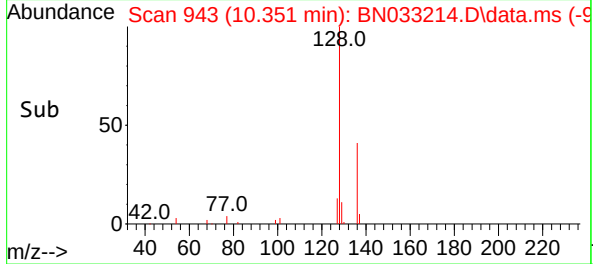
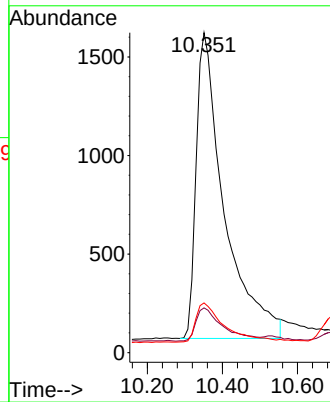
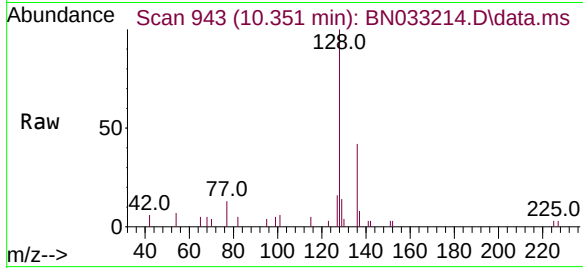
#9
Naphthalene
Concen: 0.373 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Instrument :
BNA_N
ClientSampleId :
PB162424BS

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.0	9.8	14.8
127	15.5	11.5	17.3

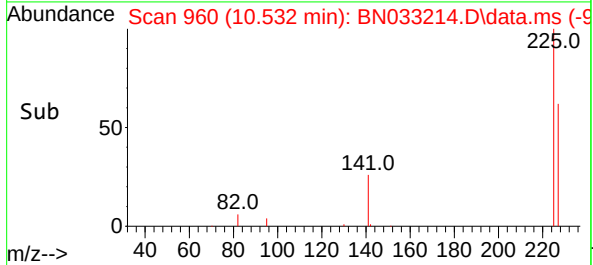
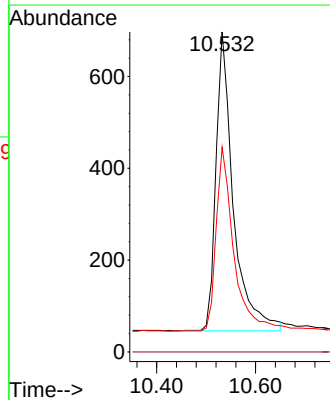
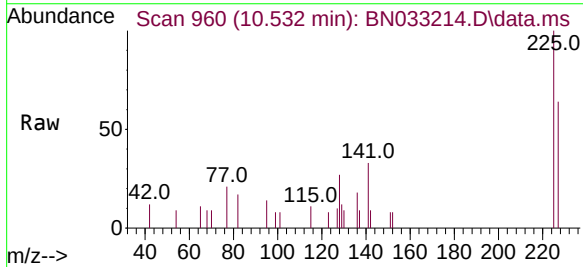
Manual Integrations
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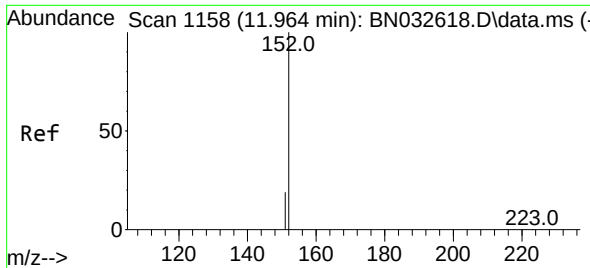
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.000 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

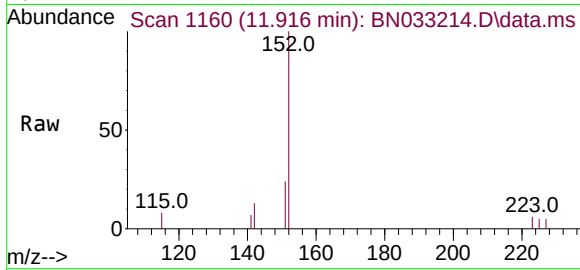
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	51.3	76.9





#11
2-Methylnaphthalene-d10
Concen: 0.351 ng
RT: 11.916 min Scan# 1158
Delta R.T. 0.015 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

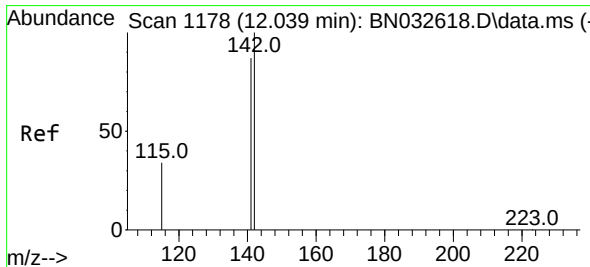
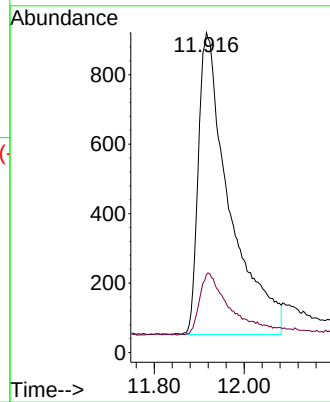
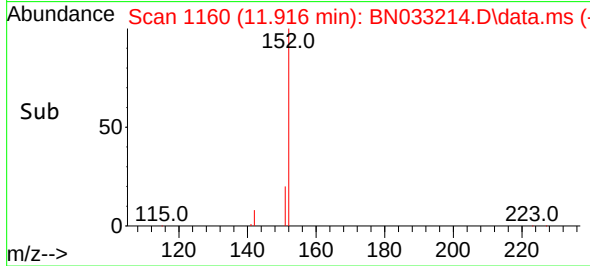
Instrument :
BNA_N
ClientSampleId :
PB162424BS



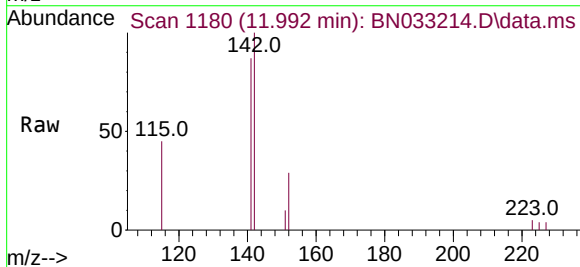
Tgt Ion:152 Resp: 4158
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.2

Manual Integrations
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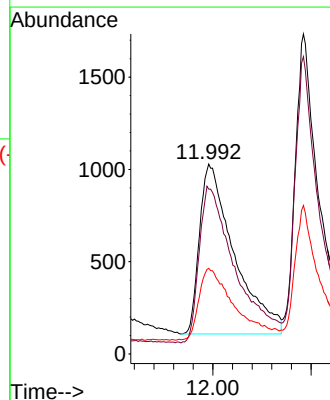
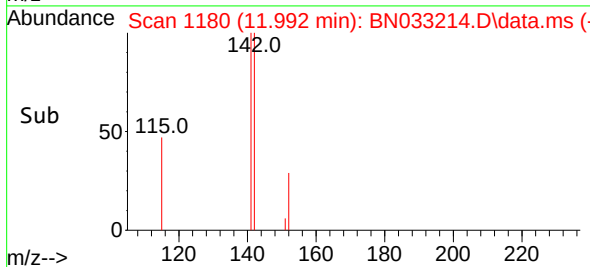
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

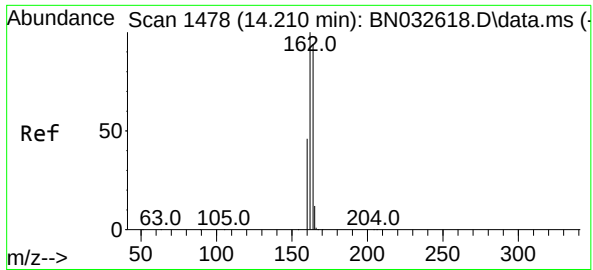


#12
2-Methylnaphthalene
Concen: 0.323 ng
RT: 11.992 min Scan# 1180
Delta R.T. 0.015 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48



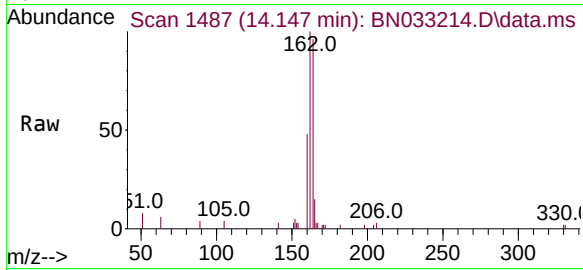
Tgt Ion:142 Resp: 4526
Ion Ratio Lower Upper
142 100
141 86.8 69.3 103.9
115 45.1 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.147 min Scan# 1478
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

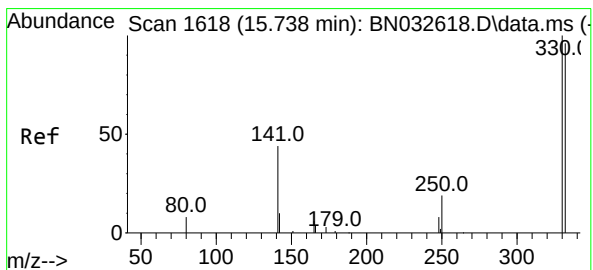
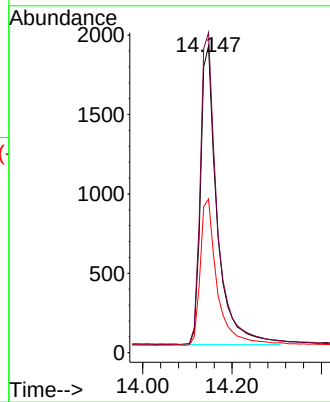
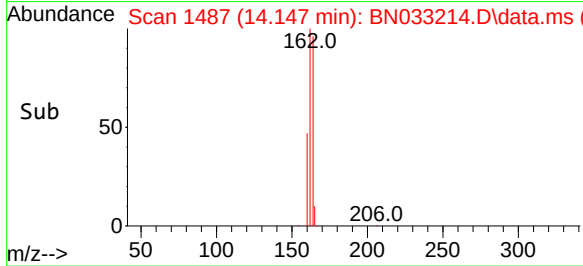
Instrument :
BNA_N
ClientSampleId :
PB162424BS



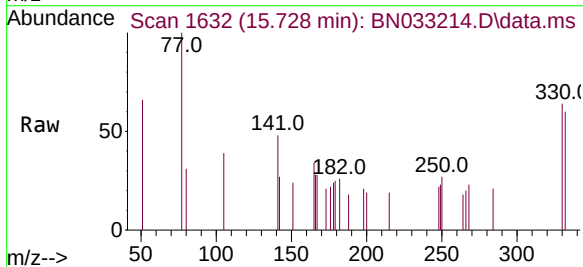
Tgt Ion:164 Resp: 485
Ion Ratio Lower Upper
164 100
162 104.4 85.0 127.4
160 50.1 39.4 59.2

Manual Integrations
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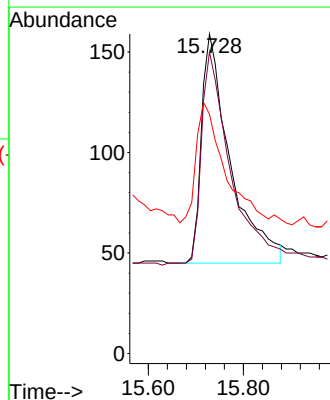
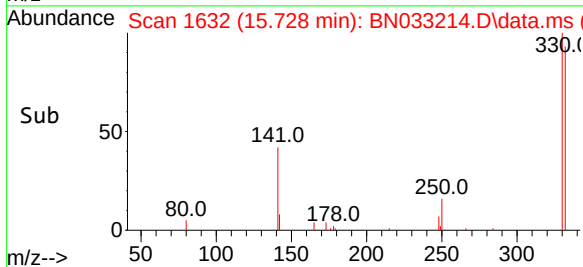
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

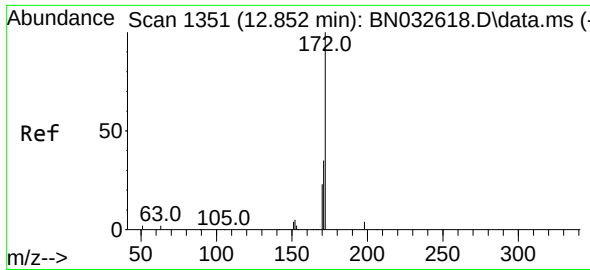


#14
2,4,6-Tribromophenol
Concen: 0.231 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48



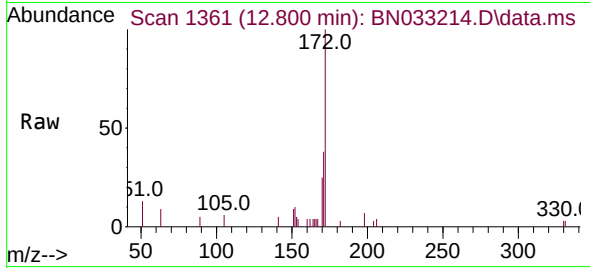
Tgt Ion:330 Resp: 480
Ion Ratio Lower Upper
330 100
332 91.9 77.8 116.8
141 52.3 34.2 51.2#





#15
2-Fluorobiphenyl
Concen: 0.349 ng
RT: 12.800 min Scan# 11
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

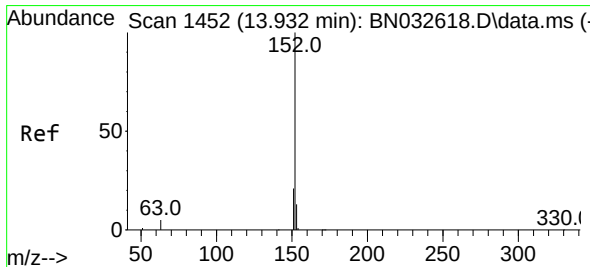
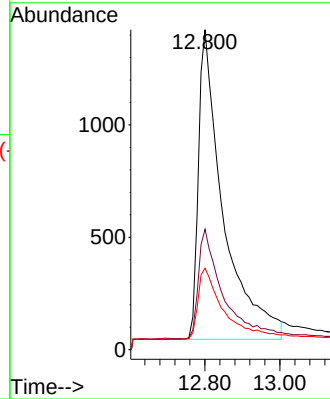
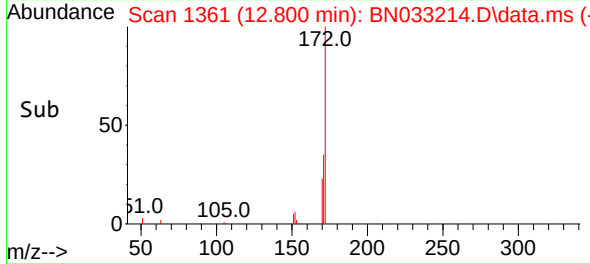
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion:172 Resp: 6304
Ion Ratio Lower Upper
172 100
171 37.6 28.6 43.0
170 25.4 19.0 28.6

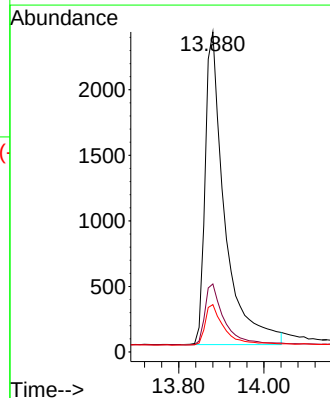
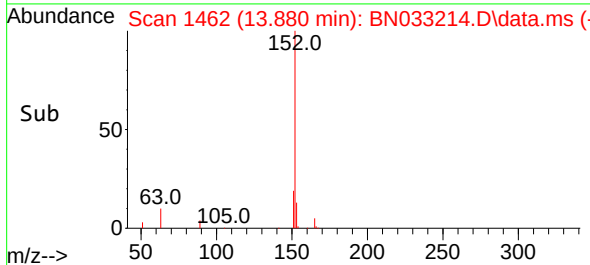
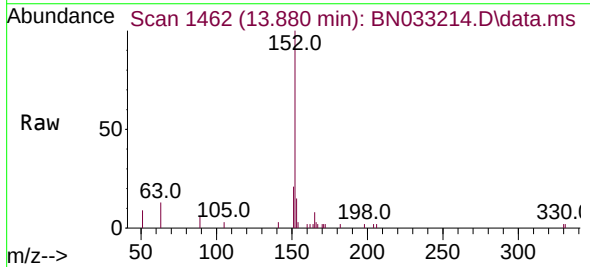
Manual Integrations
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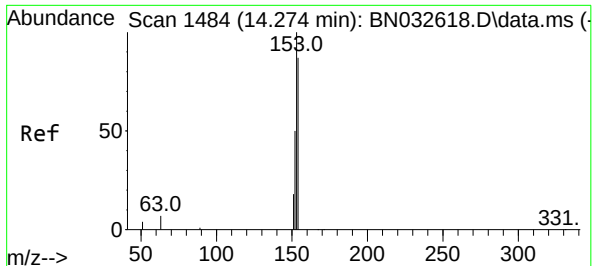
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.880 min Scan# 1462
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

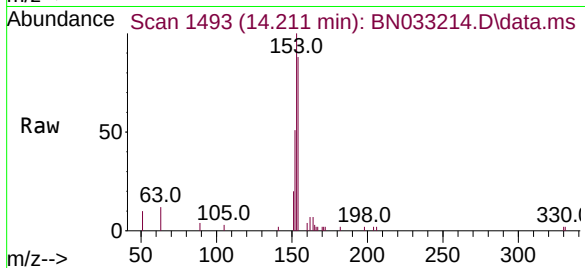
Tgt Ion:152 Resp: 7610
Ion Ratio Lower Upper
152 100
151 19.2 16.0 24.0
153 12.6 10.6 15.8





#17
Acenaphthene
Concen: 0.387 ng
RT: 14.211 min Scan# 1484
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

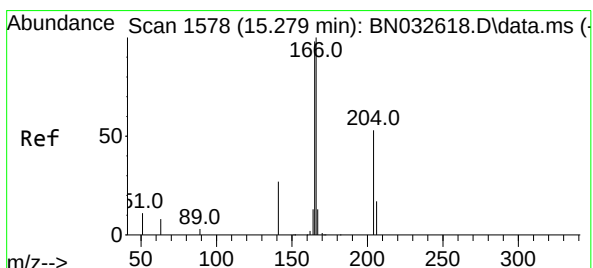
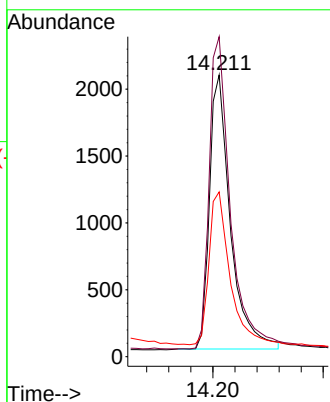
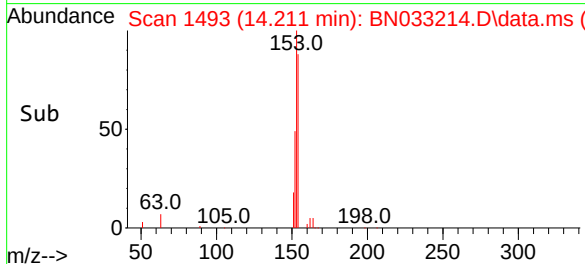
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion:154 Resp: 541
Ion Ratio Lower Upper
154 100
153 115.4 91.8 137.8
152 55.7 45.2 67.8

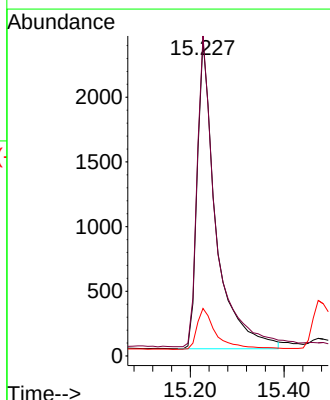
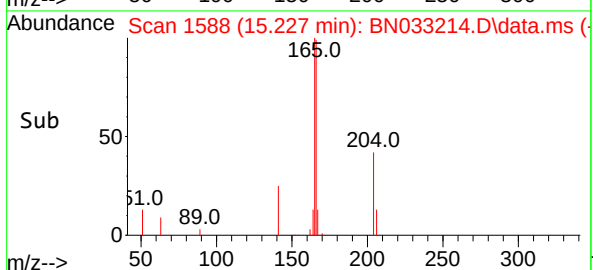
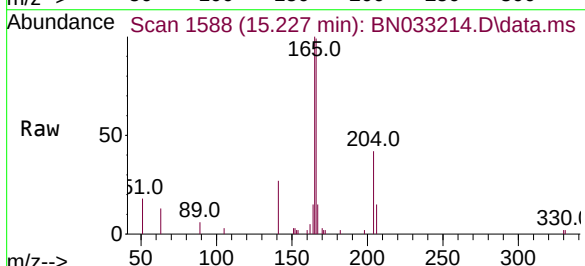
Manual Integrations
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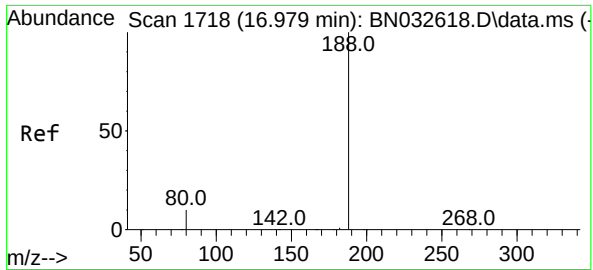
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.354 ng
RT: 15.227 min Scan# 1588
Delta R.T. 0.011 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:166 Resp: 6627
Ion Ratio Lower Upper
166 100
165 99.7 78.0 117.0
167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.932 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

ClientSampleId :

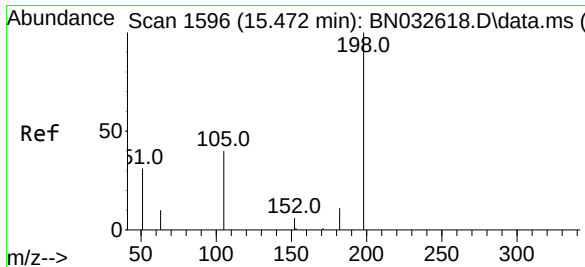
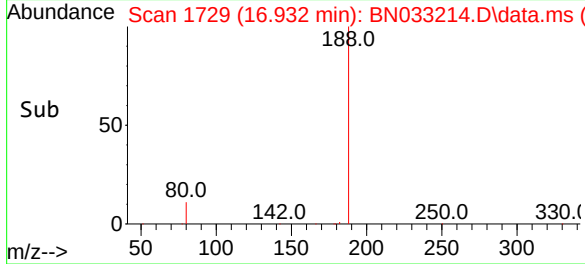
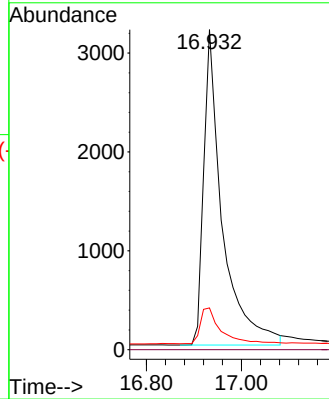
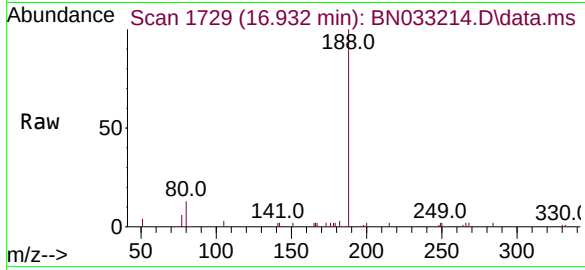
PB162424BS

Tgt Ion:	188	Resp:	869
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.1	8.8	13.2

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.330 ng

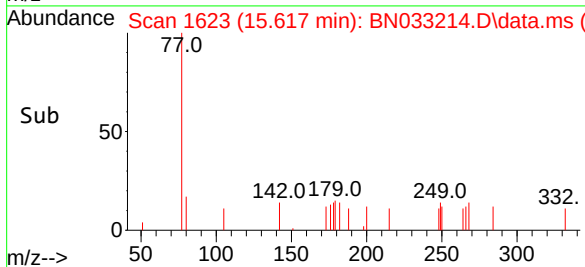
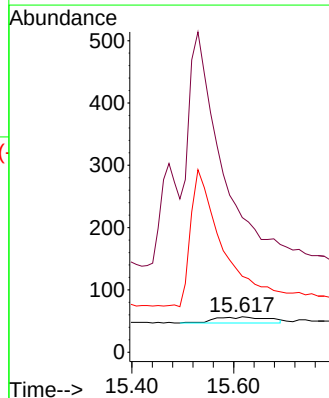
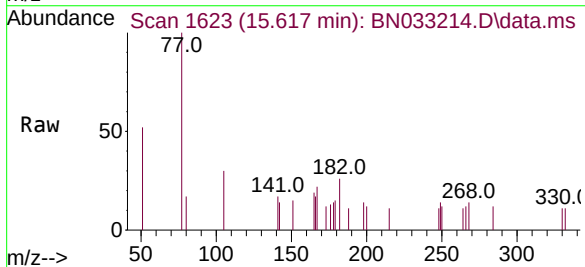
RT: 15.617 min Scan# 1623

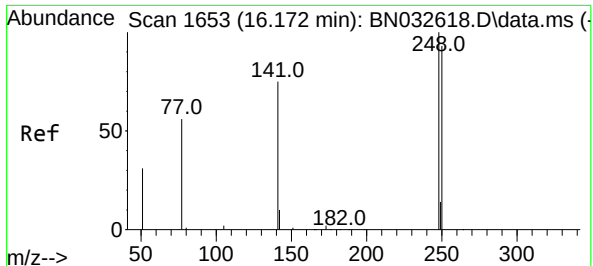
Delta R.T. 0.062 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

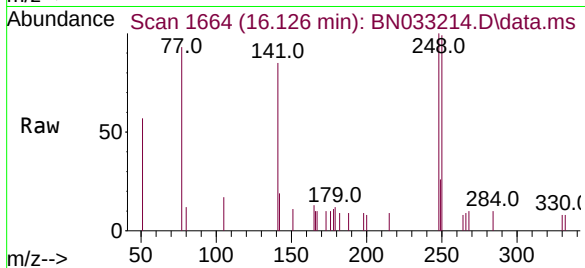
Tgt Ion:	198	Resp:	69
Ion Ratio	Lower	Upper	
198	100		
51	378.9	105.7	158.5#
105	214.0	63.0	94.6#





#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.126 min Scan# 1664
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

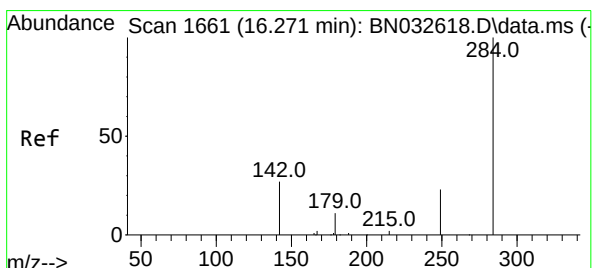
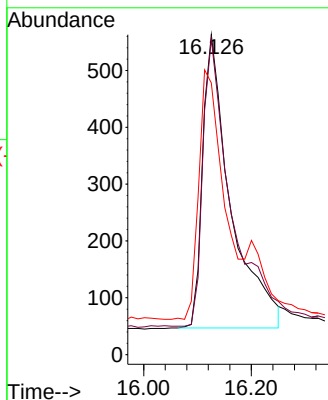
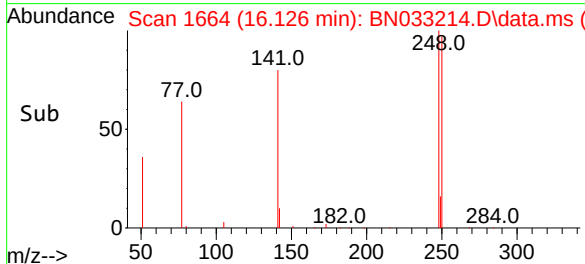
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion:248 Resp: 1870
Ion Ratio Lower Upper
248 100
250 98.6 75.1 112.7
141 84.9 62.0 93.0

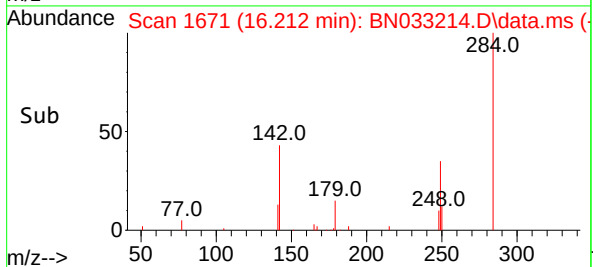
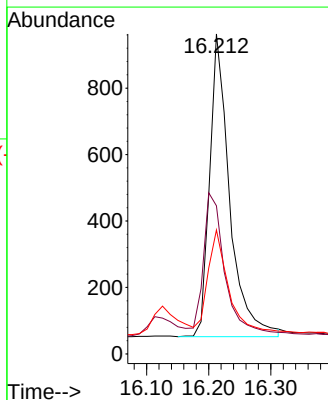
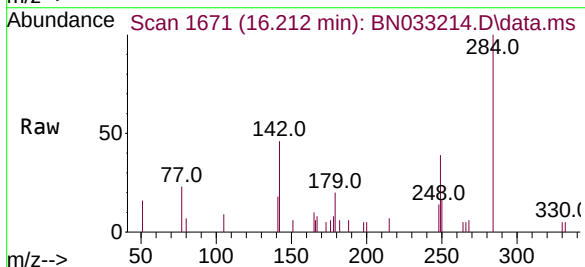
Manual Integrations
APPROVED

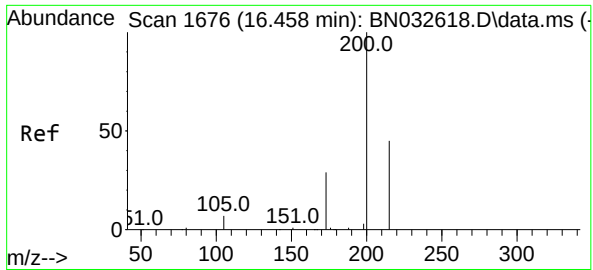
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.357 ng
RT: 16.212 min Scan# 1671
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:284 Resp: 2040
Ion Ratio Lower Upper
284 100
142 47.7 29.4 44.0#
249 33.4 24.6 36.8





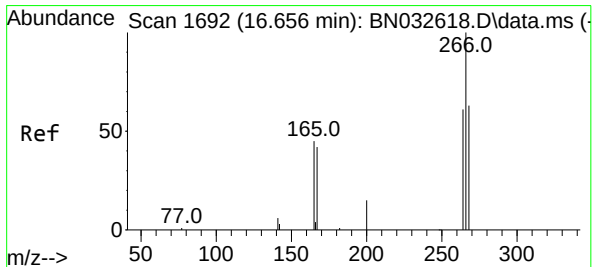
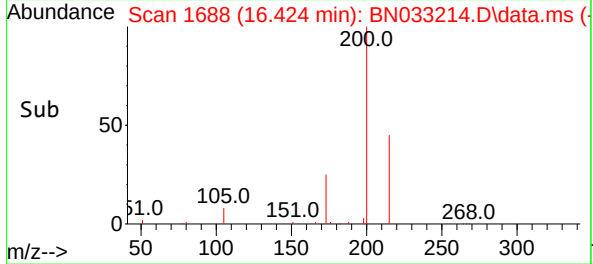
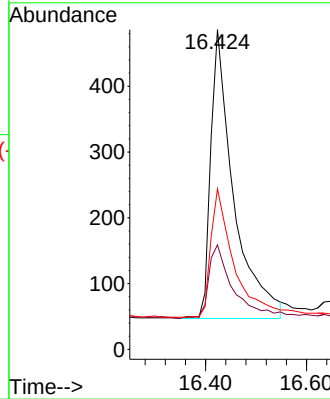
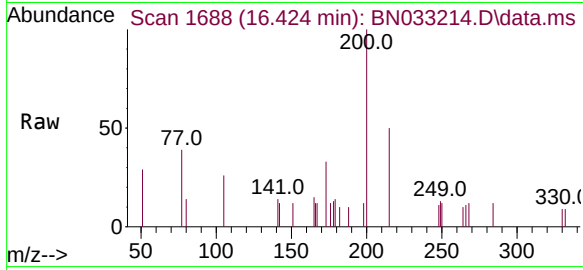
#23
Atrazine
Concen: 0.366 ng
RT: 16.424 min Scan# 1706
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Instrument :
BNA_N
ClientSampleId :
PB162424BS

Tgt Ion:200 Resp: 1378
Ion Ratio Lower Upper
200 100
173 32.7 25.4 38.2
215 50.2 38.2 57.2

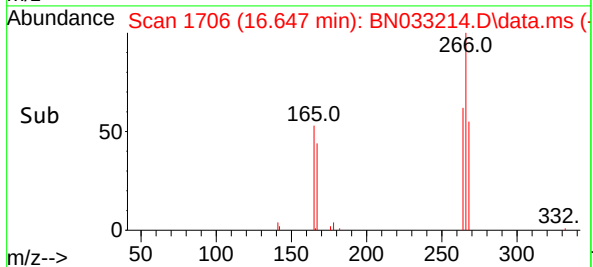
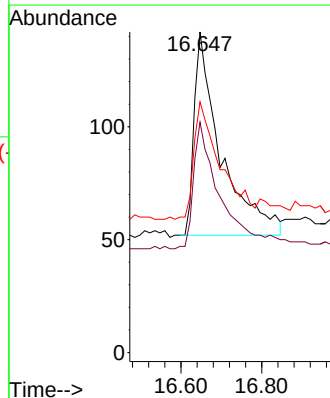
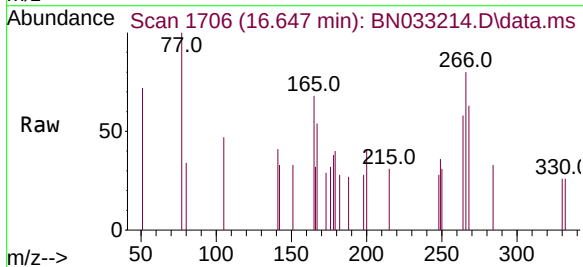
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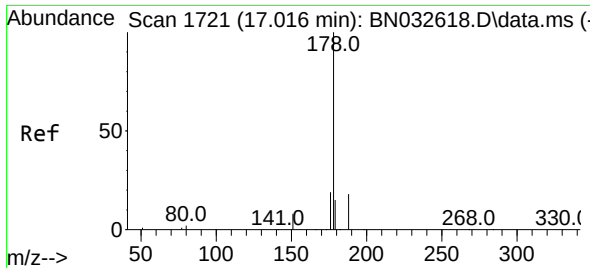
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.194 ng
RT: 16.647 min Scan# 1706
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

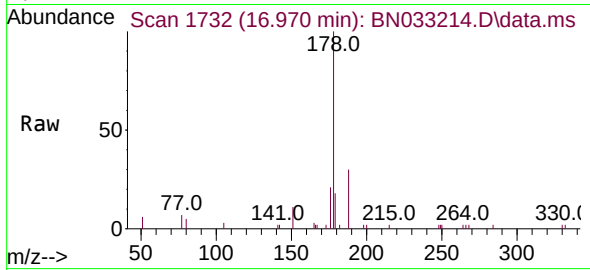
Tgt Ion:266 Resp: 412
Ion Ratio Lower Upper
266 100
264 62.9 50.2 75.2
268 58.0 52.8 79.2





#25
Phenanthrene
Concen: 0.346 ng
RT: 16.970 min Scan# 1741
Delta R.T. -0.000 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

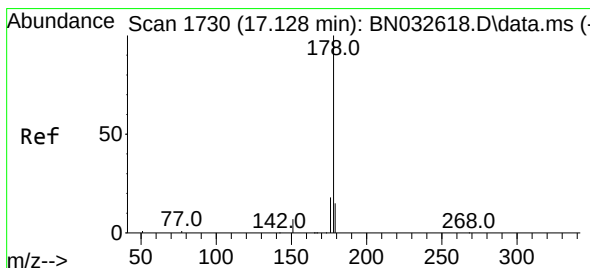
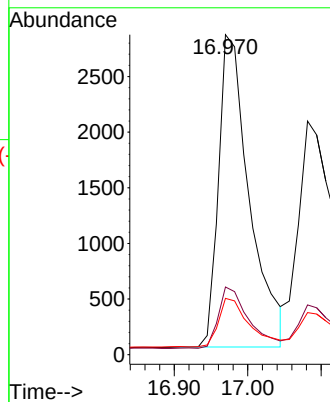
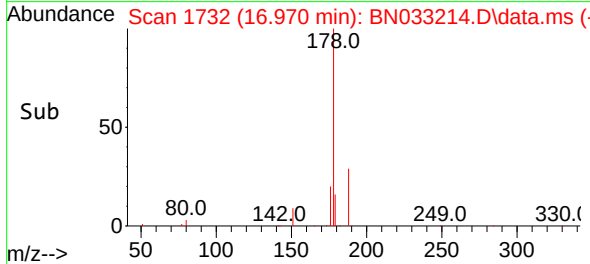
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion:178 Resp: 821
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.4 12.2 18.4

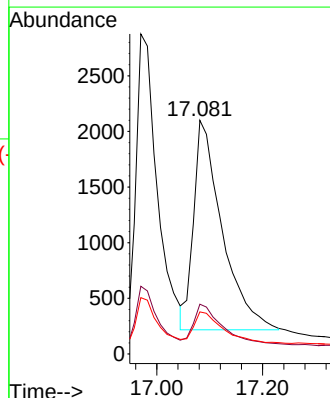
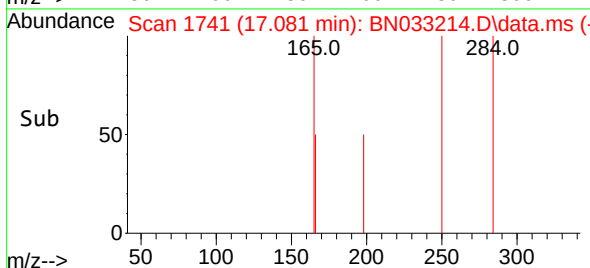
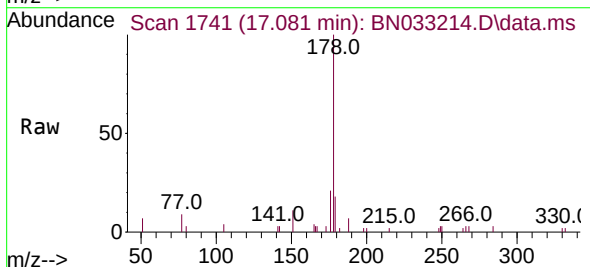
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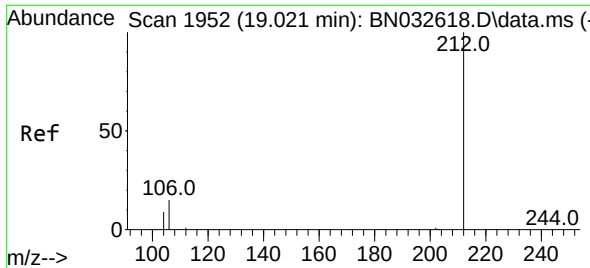
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.360 ng m
RT: 17.081 min Scan# 1741
Delta R.T. 0.012 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:178 Resp: 7042
Ion Ratio Lower Upper
178 100
176 14.6 14.8 22.2#
179 11.7 11.8 17.8#





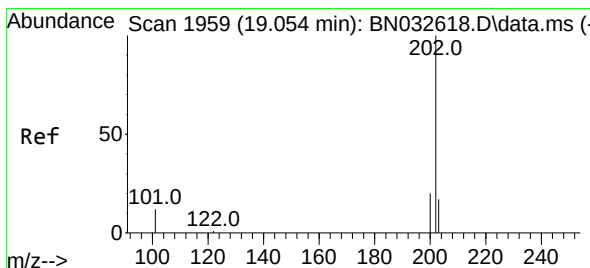
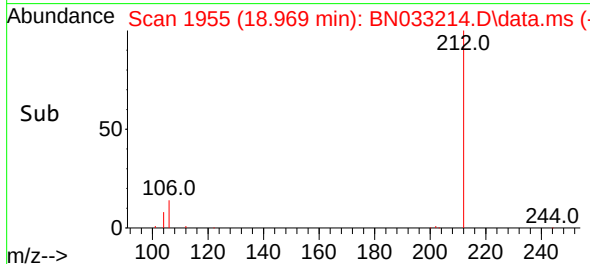
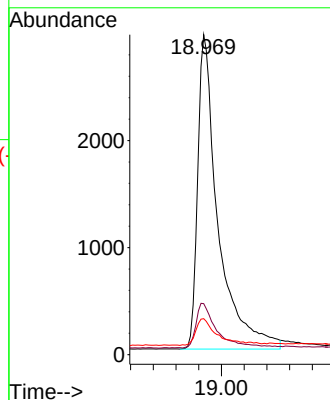
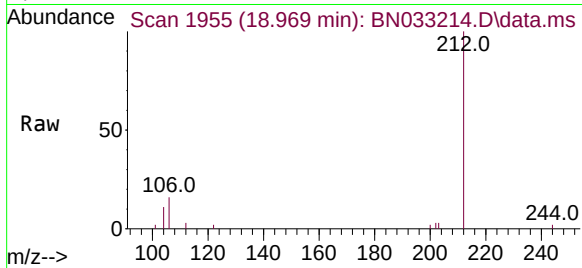
#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 18.969 min Scan# 1952
Delta R.T. 0.009 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Instrument :
BNA_N
ClientSampleId :
PB162424BS

Tgt Ion:212 Resp: 7319
Ion Ratio Lower Upper
212 100
106 14.8 11.9 17.9
104 8.5 6.9 10.3

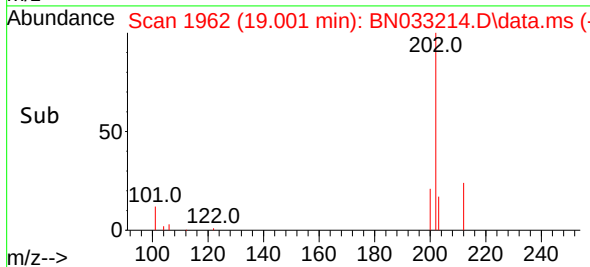
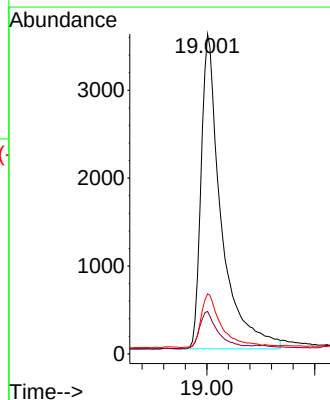
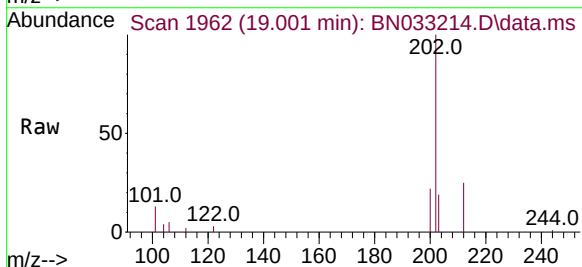
Manual Integrations
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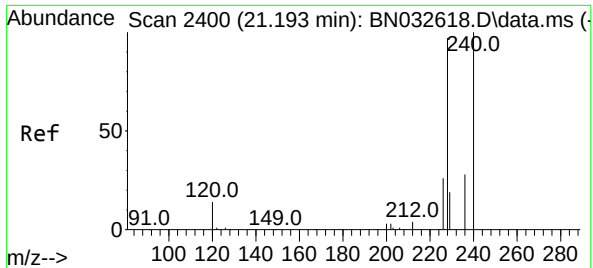
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#28
Fluoranthene
Concen: 0.322 ng
RT: 19.001 min Scan# 1962
Delta R.T. 0.009 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:202 Resp: 9244
Ion Ratio Lower Upper
202 100
101 11.4 9.6 14.4
203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.142 min Scan# 2409

Delta R.T. 0.009 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

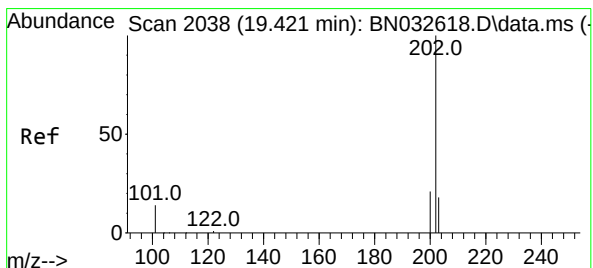
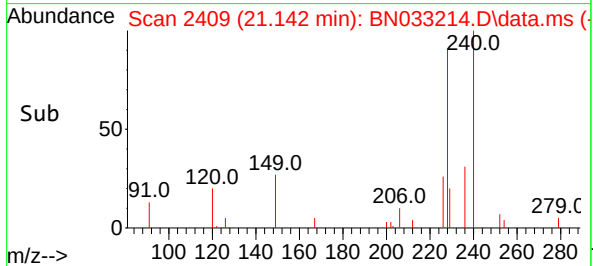
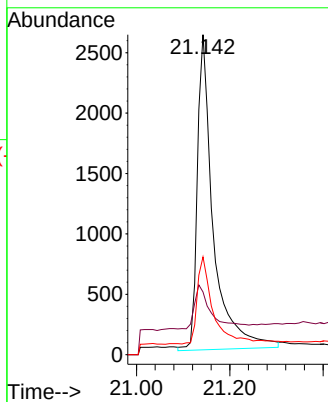
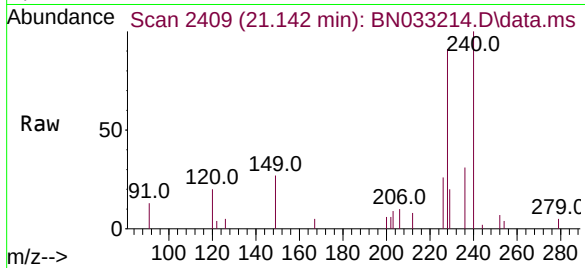
ClientSampleId :

PB162424BS

Tgt Ion:	240	Resp:	622
Ion Ratio	Lower	Upper	
240	100		
120	19.6	14.8	22.2
236	30.6	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.370 ng

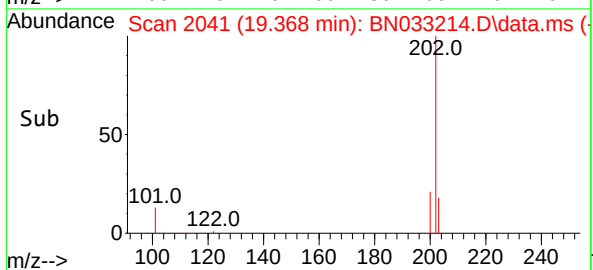
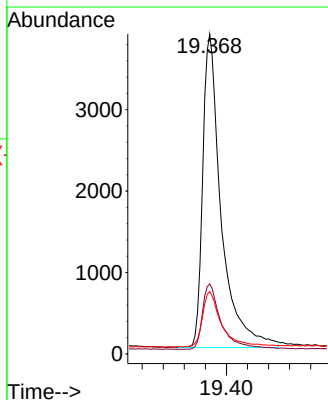
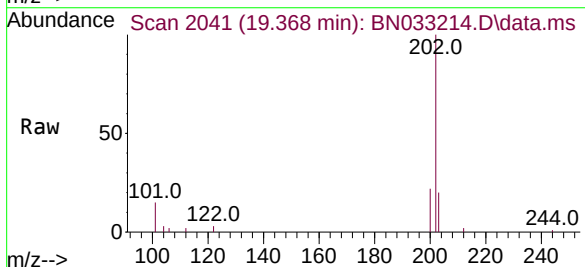
RT: 19.368 min Scan# 2041

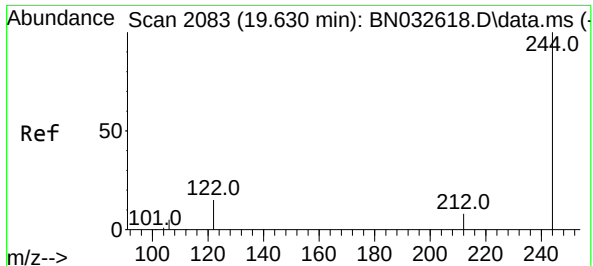
Delta R.T. 0.009 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

Tgt Ion:	202	Resp:	9403
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.6	25.0
203	18.5	14.8	22.2





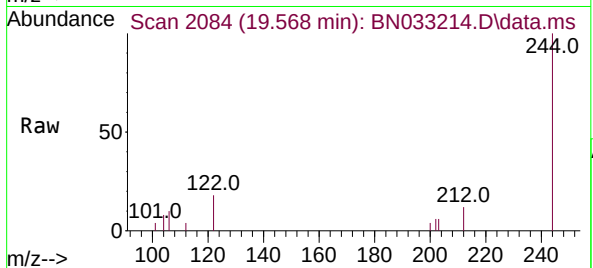
#31
Terphenyl-d14
Concen: 0.354 ng
RT: 19.568 min Scan# 2083
Delta R.T. 0.005 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

ClientSampleId :

PB162424BS



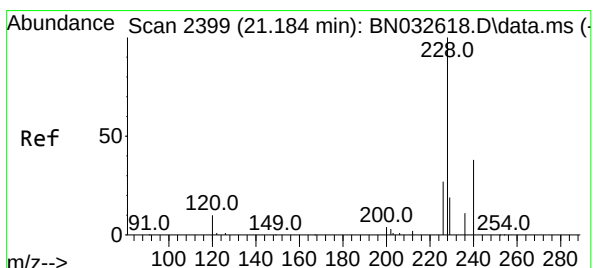
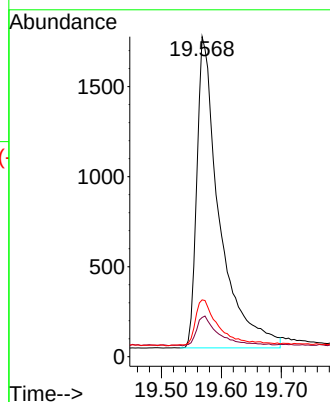
Tgt Ion:244 Resp: 451
Ion Ratio Lower Upper
244 100
212 12.3 7.5 11.3
122 17.8 12.6 19.0

Manual Integrations

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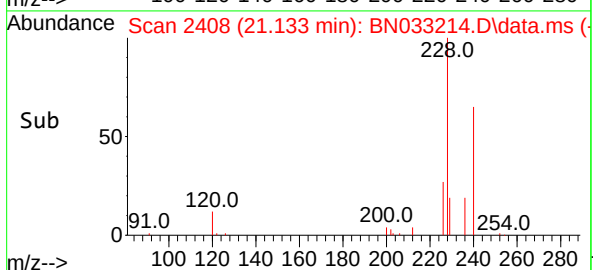
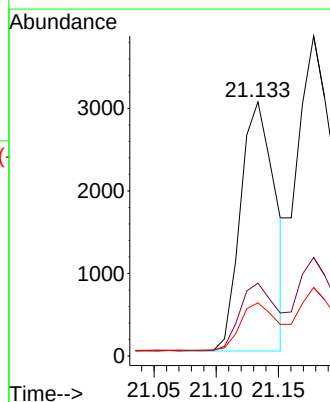
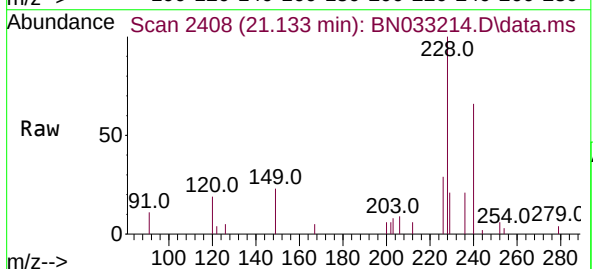
Reviewed By :Yogesh Patel 08/05/2024

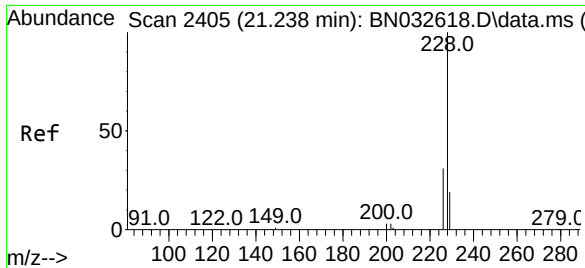
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.296 ng
RT: 21.133 min Scan# 2408
Delta R.T. 0.009 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:228 Resp: 5822
Ion Ratio Lower Upper
228 100
226 28.7 21.8 32.6
229 20.9 16.0 24.0





#33

Chrysene

Concen: 0.396 ng m

RT: 21.178 min Scan# 2405

Delta R.T. 0.009 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

ClientSampleId :

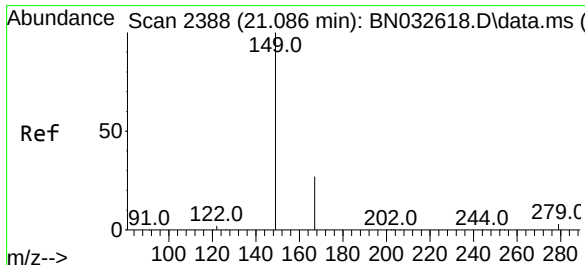
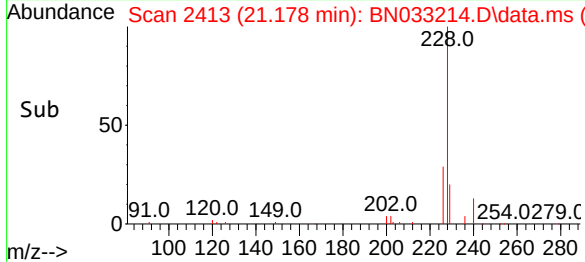
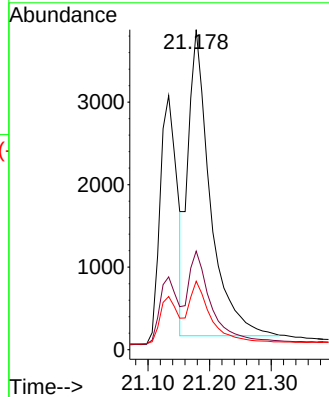
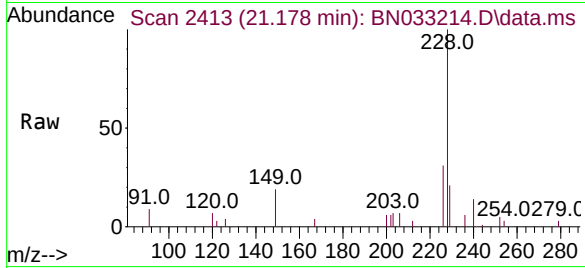
PB162424BS

Tgt Ion:	228	Resp:	926
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.2	36.2
229	21.4	16.0	24.0

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.408 ng

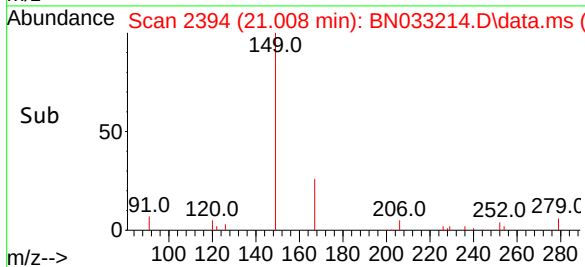
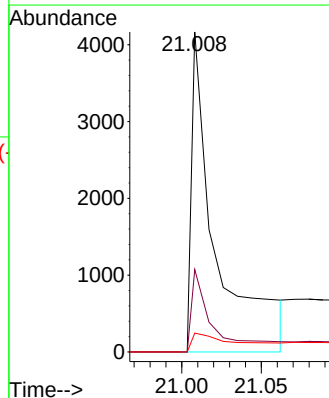
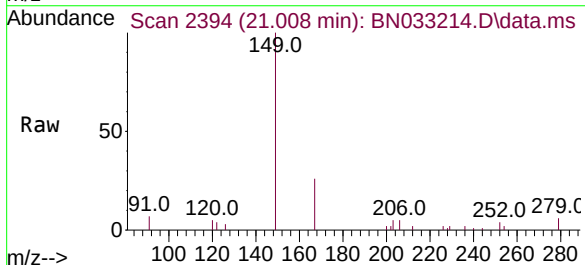
RT: 21.008 min Scan# 2394

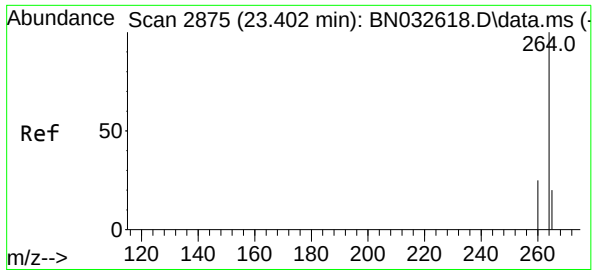
Delta R.T. -0.000 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

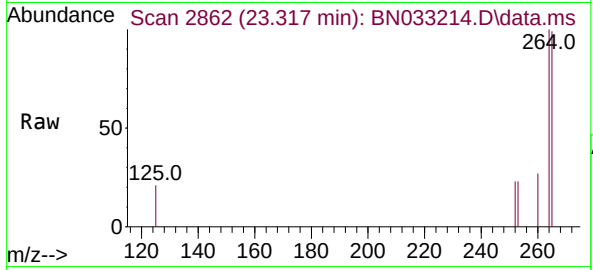
Tgt Ion:	149	Resp:	4439
Ion Ratio	Lower	Upper	
149	100		
167	25.3	21.4	32.2
279	11.3	2.8	4.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.317 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

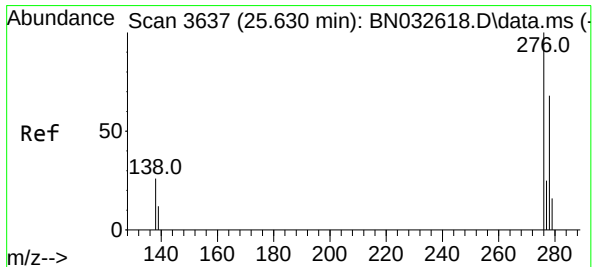
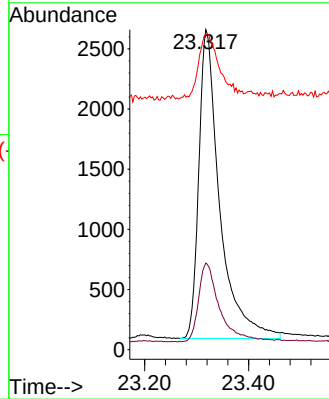
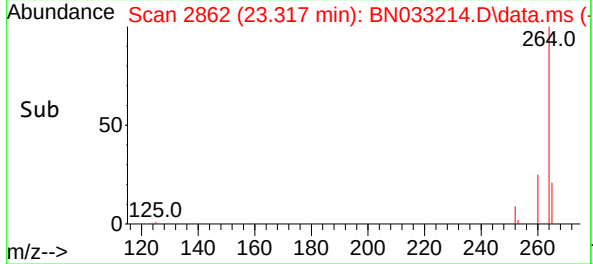
Instrument :
BNA_N
ClientSampleId :
PB162424BS



Tgt Ion:264 Resp: 7164
Ion Ratio Lower Upper
264 100
260 27.1 20.9 31.3
265 98.6 85.4 128.2

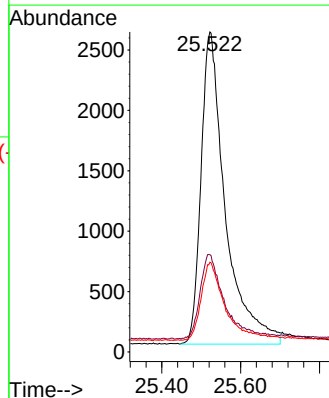
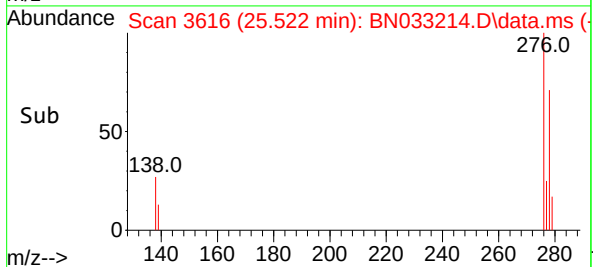
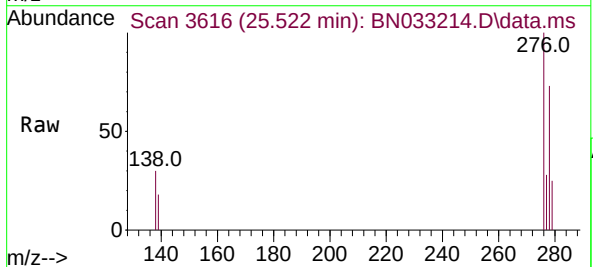
Manual Integrations
APPROVED

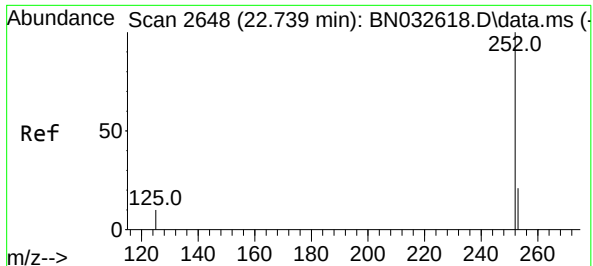
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.522 min Scan# 3616
Delta R.T. 0.015 min
Lab File: BN033214.D
Acq: 02 Aug 2024 22:48

Tgt Ion:276 Resp: 11060
Ion Ratio Lower Upper
276 100
138 26.9 21.0 31.4
277 23.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.304 ng

RT: 22.668 min Scan# 2640

Delta R.T. 0.009 min

Lab File: BN033214.D

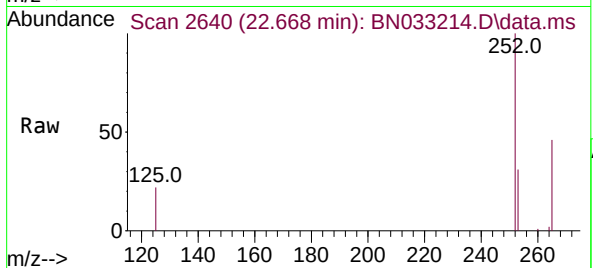
Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

ClientSampleId :

PB162424BS



Tgt Ion:252 Resp: 7598

Ion Ratio Lower Upper

252 100

253 31.3 22.3 33.5

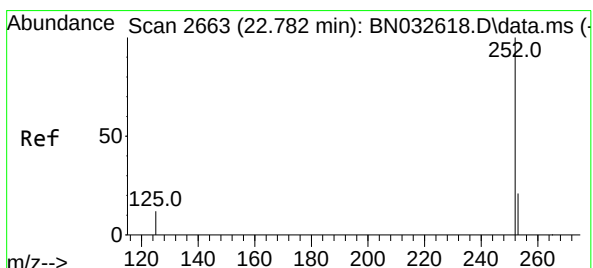
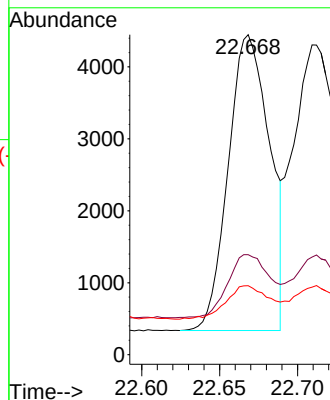
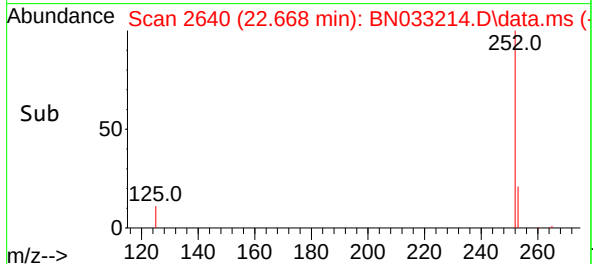
125 21.6 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

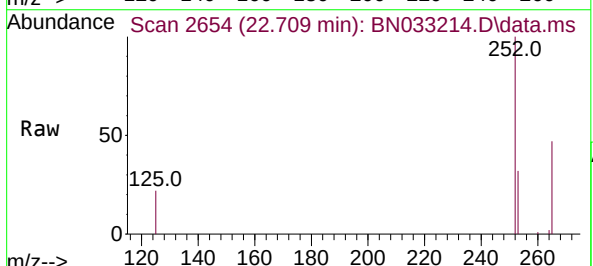
Concen: 0.339 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.006 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48



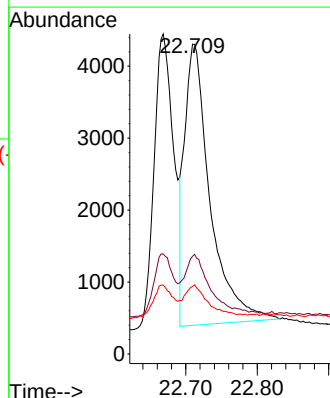
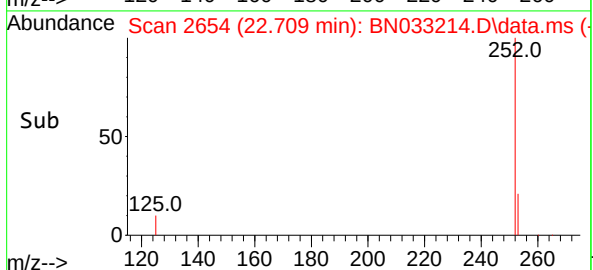
Tgt Ion:252 Resp: 9673

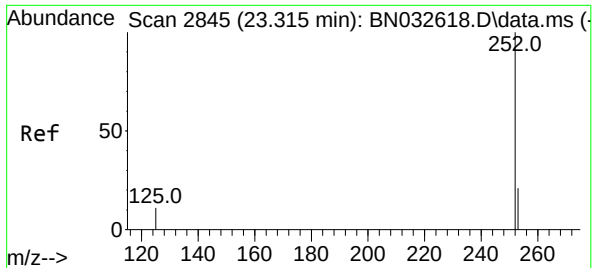
Ion Ratio Lower Upper

252 100

253 31.5 22.6 34.0

125 21.8 16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.238 min Scan# 21

Delta R.T. 0.015 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

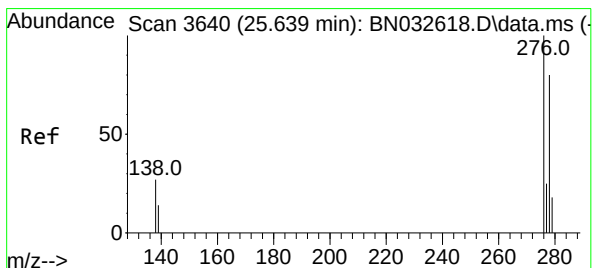
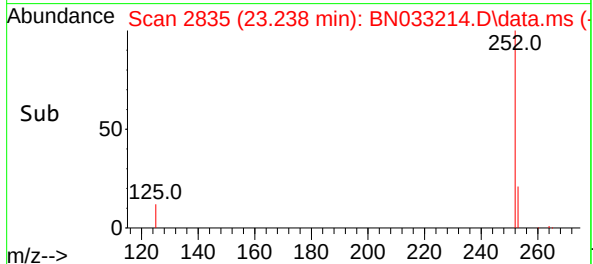
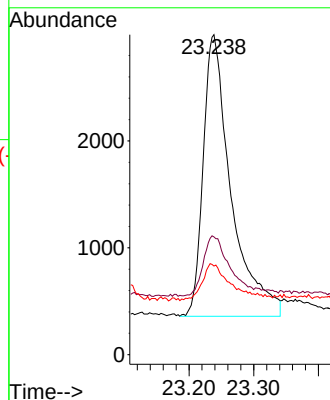
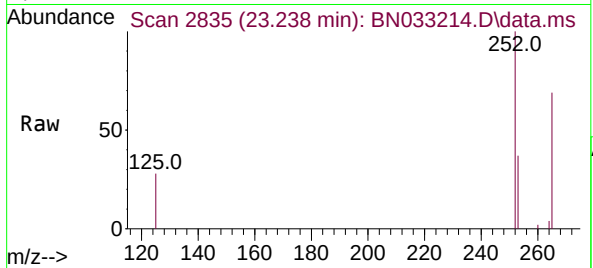
Instrument :

BNA_N

ClientSampleId :

PB162424BS

Tgt Ion:	252	Resp:	789
Ion Ratio	Lower	Upper	
252	100		
253	36.8	25.8	38.8
125	27.7	21.4	32.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

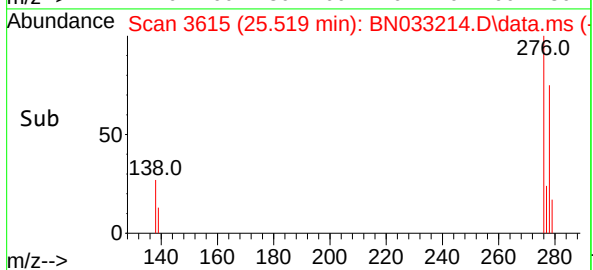
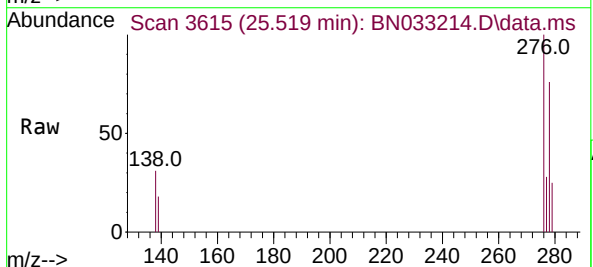
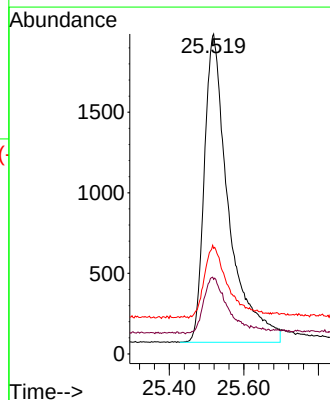
RT: 25.519 min Scan# 3615

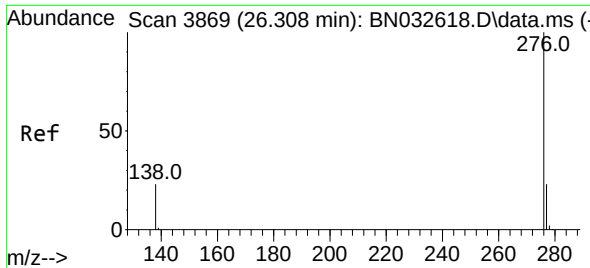
Delta R.T. 0.012 min

Lab File: BN033214.D

Acq: 02 Aug 2024 22:48

Tgt Ion:	278	Resp:	8674
Ion Ratio	Lower	Upper	
278	100		
139	23.3	16.7	25.1
279	33.0	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.397 ng

RT: 26.191 min Scan# 3845

Delta R.T. 0.015 min

Lab File: BN033214.D

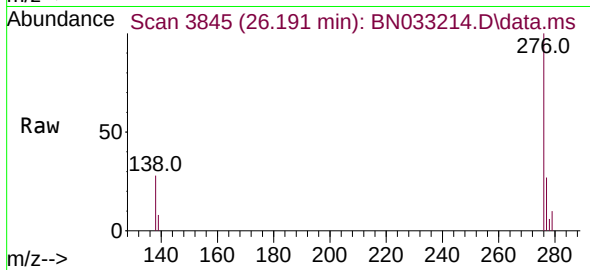
Acq: 02 Aug 2024 22:48

Instrument :

BNA_N

ClientSampleId :

PB162424BS



Tgt Ion:276 Resp: 9810

Ion Ratio Lower Upper

276 100

277 27.3 20.2 30.2

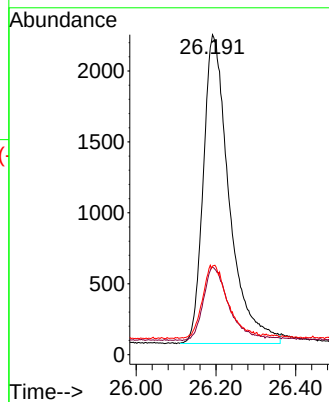
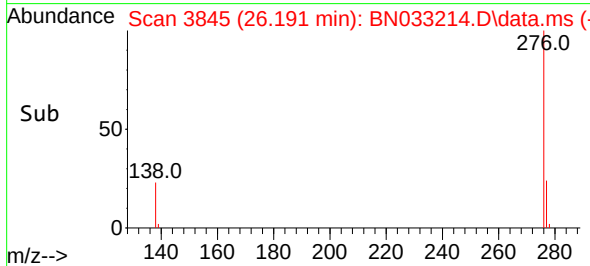
138 27.7 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/30/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	MLS-15-70-85MS	SDG No.:	P3426
Lab Sample ID:	P3415-04MS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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
BN033217.D	1	08/01/24 08:58	08/03/24 00:38	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.34		0.030	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.34		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.41		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.39		0.020	0.10	ug/L
86-73-7	Fluorene	0.38		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.41		0.020	0.10	ug/L
120-12-7	Anthracene	0.37		0.030	0.10	ug/L
206-44-0	Fluoranthene	0.39		0.020	0.10	ug/L
129-00-0	Pyrene	0.47		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.40		0.020	0.10	ug/L
218-01-9	Chrysene	0.47		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.41		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.45		0.040	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.44		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.48		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.48		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.43		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.16	J	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.34		30 (30) - 150 (150)	84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (30) - 150 (150)	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		30 (11) - 130 (175)	93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		30 (10) - 130 (175)	90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		30 (54) - 130 (171)	129%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2400	7.503			
1146-65-2	Naphthalene-d8	8090	10.266			
15067-26-2	Acenaphthene-d10	4610	14.133			
1517-22-2	Phenanthrene-d10	9450	16.915			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/30/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	MLS-15-70-85MS	SDG No.:	P3426
Lab Sample ID:	P3415-04MS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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
BN033217.D	1	08/01/24 08:58	08/03/24 00:38	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	6460	21.14			
1520-96-3	Perylene-d12	6300	23.321			

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\BN080324\
 Data File : BN033217.D
 Acq On : 03 Aug 2024 00:38
 Operator : MA/JU
 Sample : P3415-04MS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MLS-15-70-85MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 01:11:48 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.503	152	2396	0.400	ng	0.00
7) Naphthalene-d8	10.266	136	8090	0.400	ng	#-0.02
13) Acenaphthene-d10	14.133	164	4611	0.400	ng	0.00
19) Phenanthrene-d10	16.915	188	9453	0.400	ng	0.00
29) Chrysene-d12	21.140	240	6458	0.400	ng	0.00
35) Perylene-d12	23.321	264	6304	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1189	0.196	ng	-0.06
5) Phenol-d6	6.911	99	995m	0.132	ng	0.03
8) Nitrobenzene-d5	8.781	82	2263	0.372	ng	-0.03
11) 2-Methylnaphthalene-d10	11.871	152	4183	0.338	ng	-0.03
14) 2,4,6-Tribromophenol	15.698	330	557	0.283	ng	-0.02
15) 2-Fluorobiphenyl	12.765	172	6155	0.359	ng	-0.03
27) Fluoranthene-d10	18.957	212	8929	0.365	ng	0.00
31) Terphenyl-d14	19.556	244	6854	0.518	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.083	88	442	0.149	ng	# 27
3) n-Nitrosodimethylamine	3.480	42	333	0.133	ng	# 94
6) bis(2-Chloroethyl)ether	6.990	93	3094	0.492	ng	93
9) Naphthalene	10.319	128	7335	0.327	ng	97
10) Hexachlorobutadiene	10.532	225	1042	0.243	ng	# 99
12) 2-Methylnaphthalene	11.946	142	4712	0.322	ng	# 93
16) Acenaphthylene	13.866	152	7316	0.390	ng	99
17) Acenaphthene	14.197	154	4947	0.372	ng	99
18) Fluorene	15.213	166	6445	0.363	ng	98
20) 4,6-Dinitro-2-methylph...	15.524	198	132	0.357	ng	# 1
21) 4-Bromophenyl-phenylether	16.095	248	1909	0.344	ng	# 89
22) Hexachlorobenzene	16.207	284	1861	0.299	ng	# 90
23) Atrazine	16.393	200	1782	0.436	ng	99
24) Pentachlorophenol	16.617	266	1221	0.528	ng	99
25) Phenanthrene	16.952	178	10068	0.390	ng	99
26) Anthracene	17.064	178	7577	0.356	ng	99
28) Fluoranthene	18.990	202	11757	0.376	ng	# 96
30) Pyrene	19.357	202	11859	0.450	ng	99
32) Benzo(a)anthracene	21.122	228	7865	0.385	ng	97
33) Chrysene	21.176	228	10947	0.451	ng	98
34) Bis(2-ethylhexyl)phtha...	21.006	149	7416	0.656	ng	# 91
36) Indeno(1,2,3-cd)pyrene	25.526	276	11360	0.457	ng	99
37) Benzo(b)fluoranthene	22.669	252	8734	0.398	ng	96
38) Benzo(k)fluoranthene	22.710	252	10874	0.433	ng	98
39) Benzo(a)pyrene	23.239	252	8443	0.426	ng	95
40) Dibenzo(a,h)anthracene	25.514	278	9001	0.459	ng	96
41) Benzo(g,h,i)perylene	26.195	276	8933	0.411	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033217.D
 Acq On : 03 Aug 2024 00:38
 Operator : MA/JU
 Sample : P3415-04MS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS

Manual Integrations**APPROVED**

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024

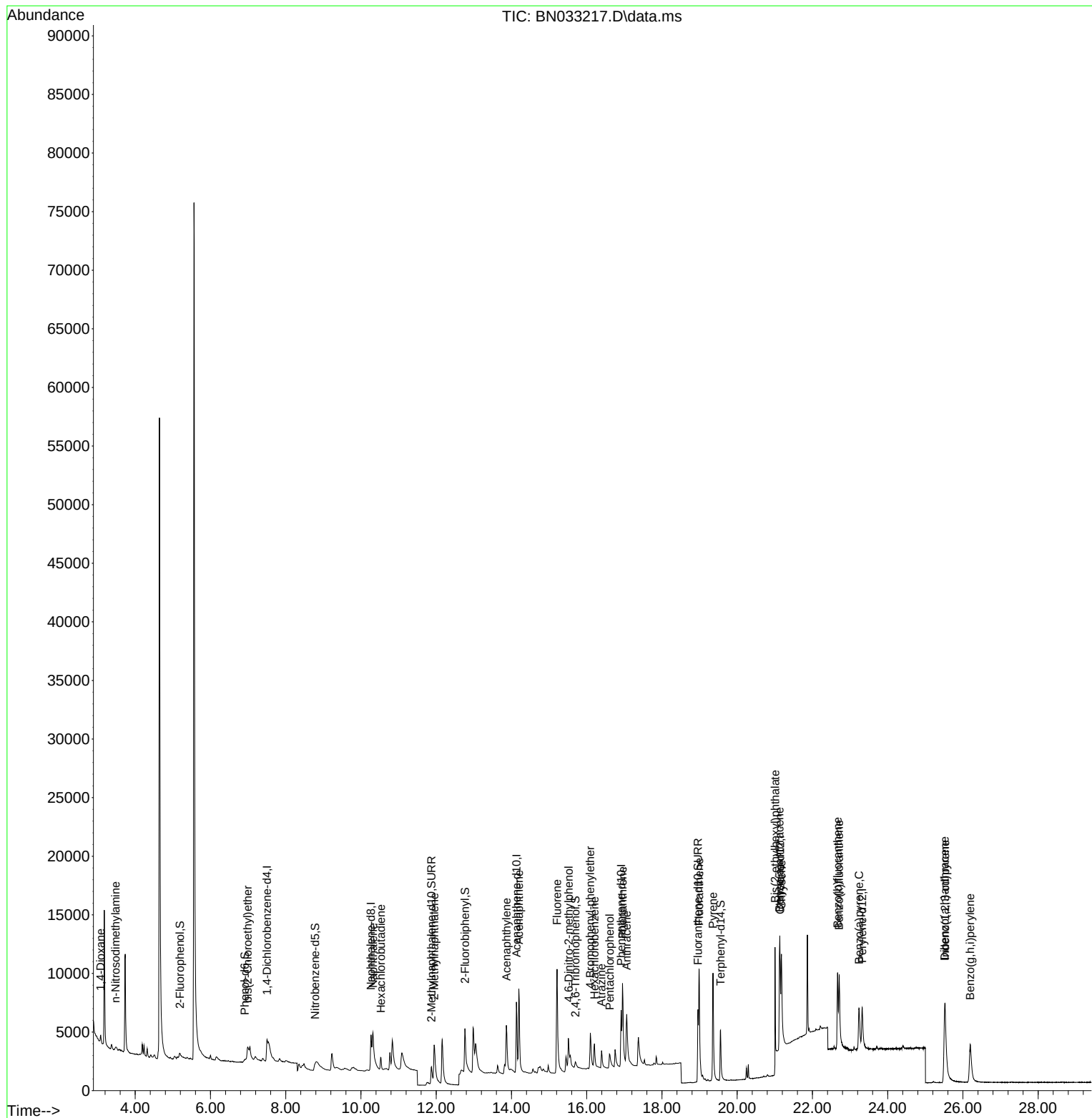
Quant Time: Aug 03 01:11:48 2024

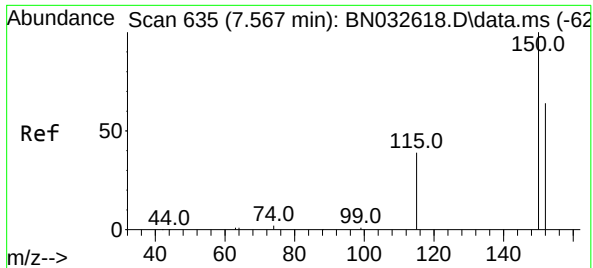
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Aug 02 22:49:47 2024

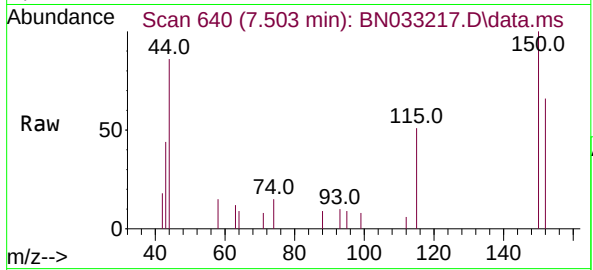
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.503 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

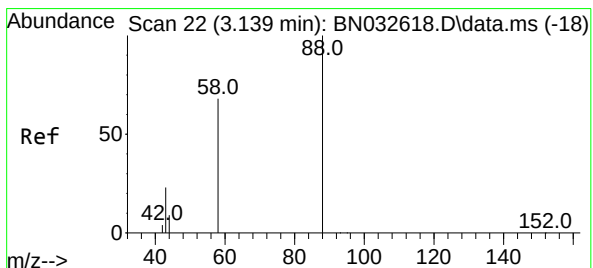
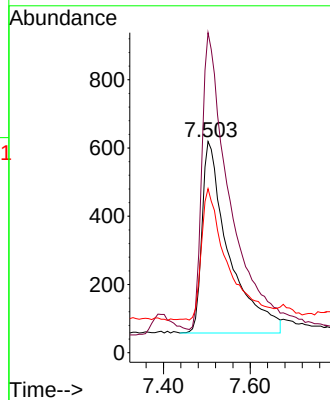
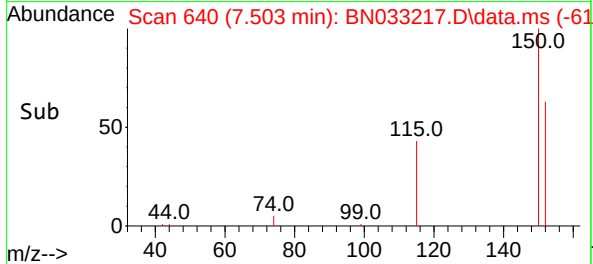
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



Tgt Ion:152 Resp: 2390
Ion Ratio Lower Upper
152 100
150 151.5 123.8 185.6
115 77.7 52.8 79.2

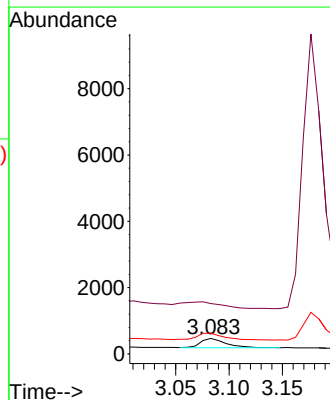
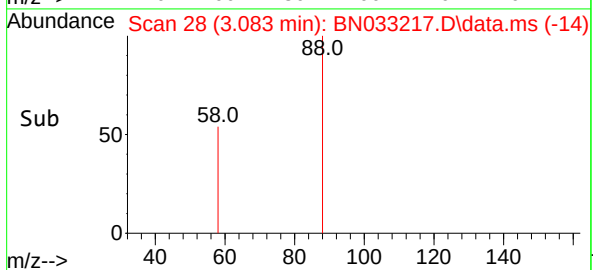
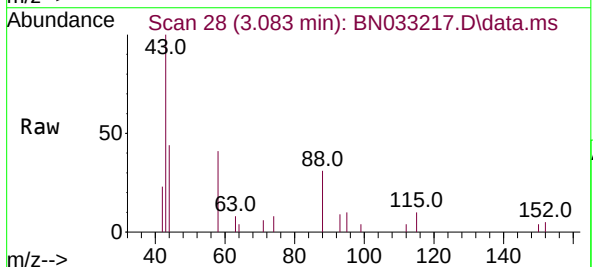
Manual Integrations
APPROVED

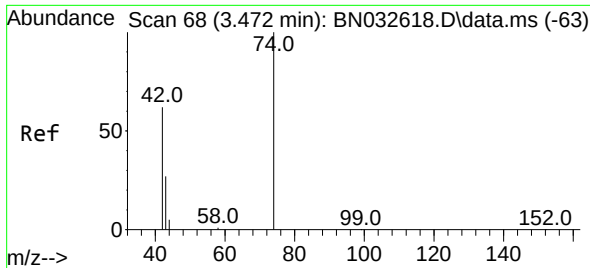
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.149 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

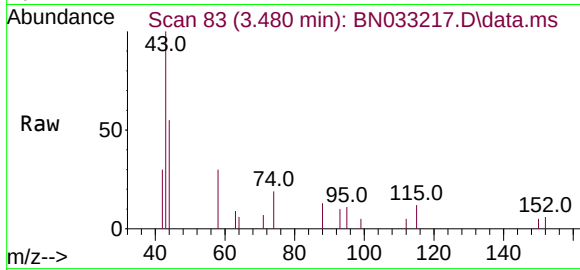
Tgt Ion: 88 Resp: 442
Ion Ratio Lower Upper
88 100
43 118.1 18.4 27.6#
58 82.6 49.2 73.8#





#3
n-Nitrosodimethylamine
Concen: 0.133 ng
RT: 3.480 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

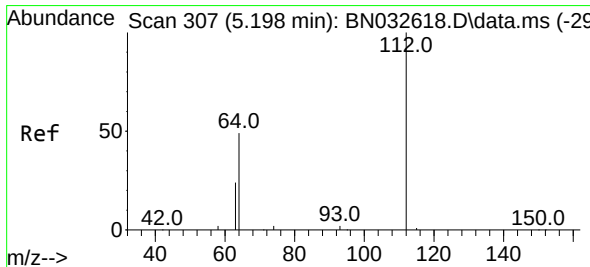
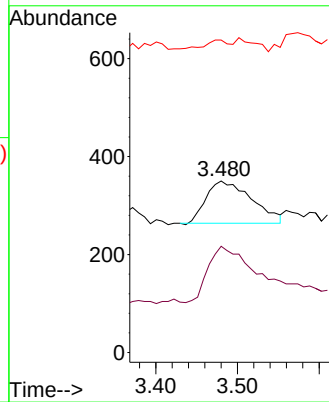
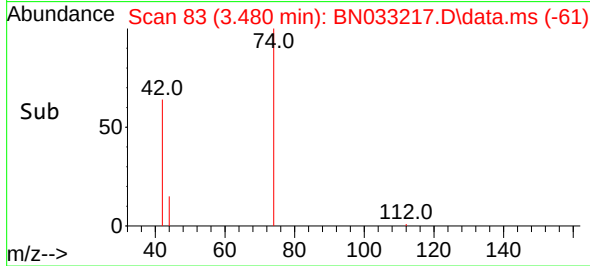
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



Tgt Ion: 42 Resp: 33
Ion Ratio Lower Upper
42 100
74 165.8 126.9 190.3
44 10.2 4.8 7.2

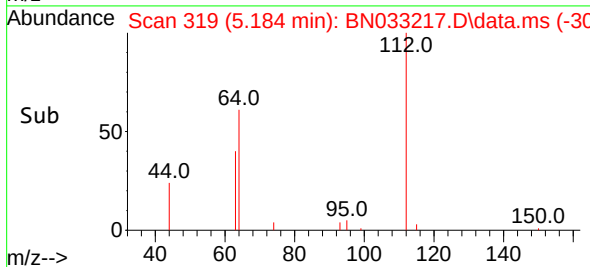
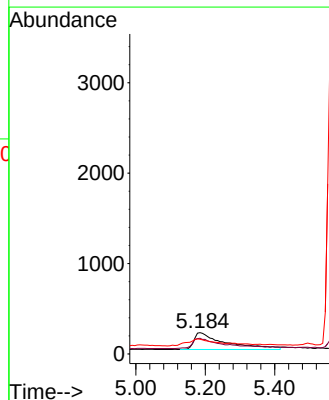
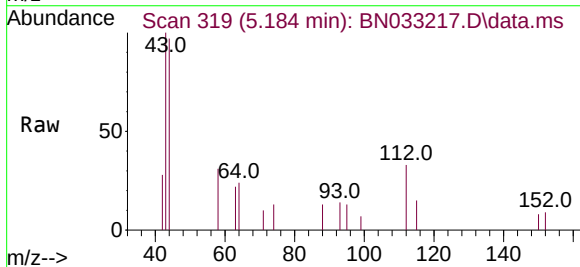
Manual Integrations
APPROVED

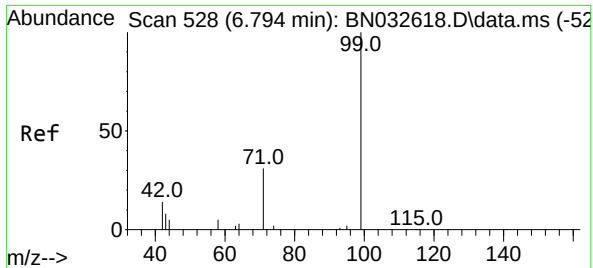
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.196 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.058 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:112 Resp: 1189
Ion Ratio Lower Upper
112 100
64 58.5 40.2 60.4
63 29.9 22.2 33.4





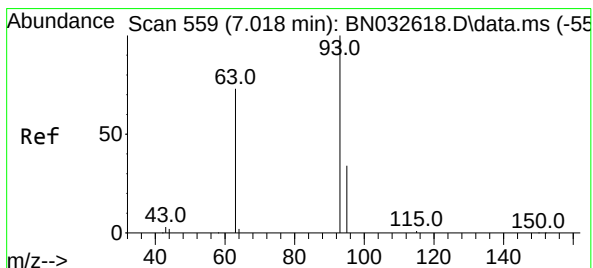
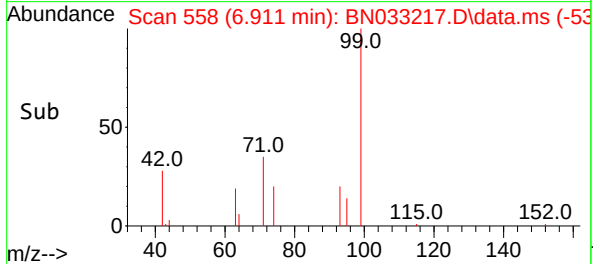
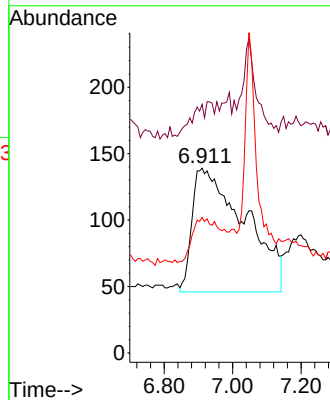
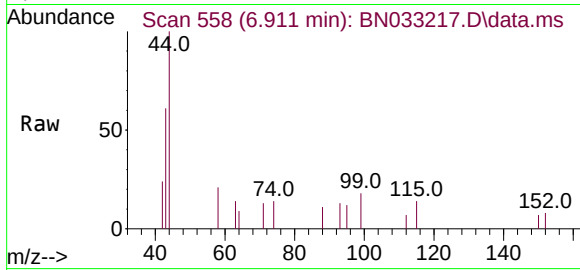
#5
Phenol-d6
Concen: 0.132 ng m
RT: 6.911 min Scan# 558
Delta R.T. 0.029 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion: 99 Resp: 99
Ion Ratio Lower Upper
99 100
42 4.7 10.5 15.7
71 19.4 22.3 33.5

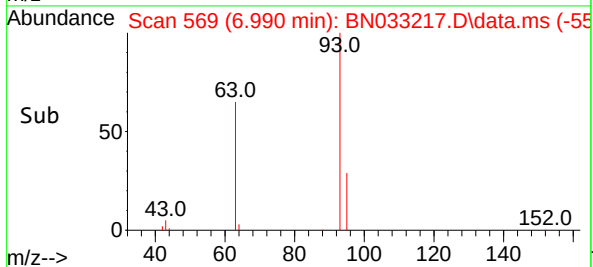
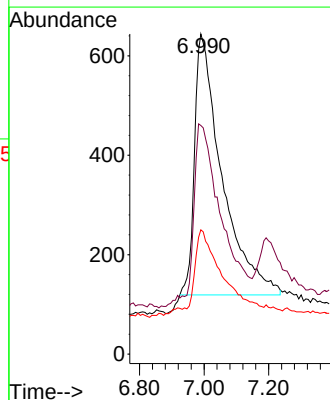
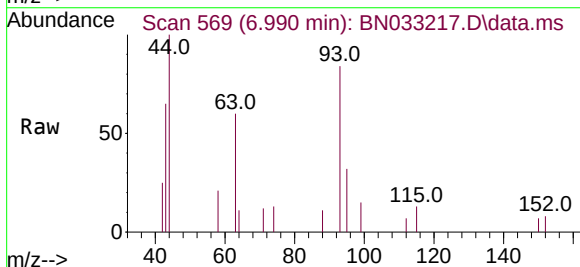
Manual Integrations
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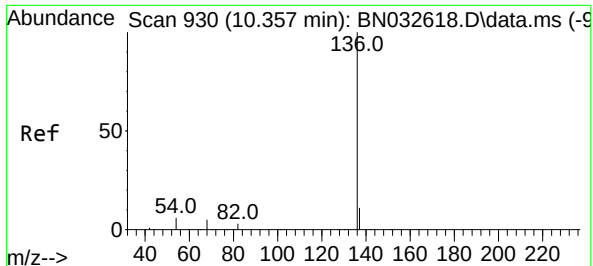
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.492 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.022 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion: 93 Resp: 3094
Ion Ratio Lower Upper
93 100
63 63.2 46.4 69.6
95 27.8 25.5 38.3





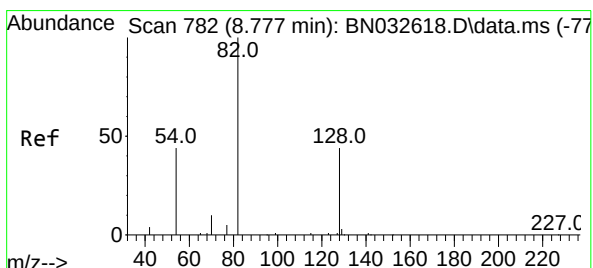
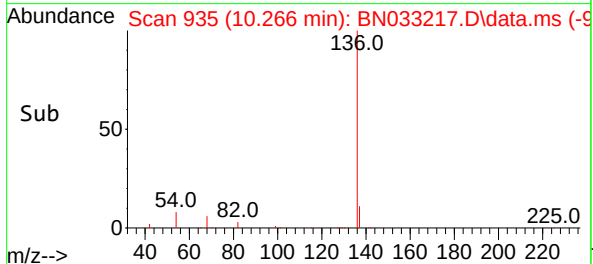
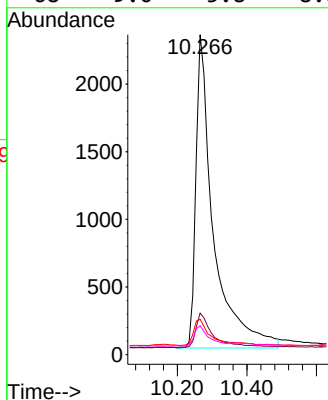
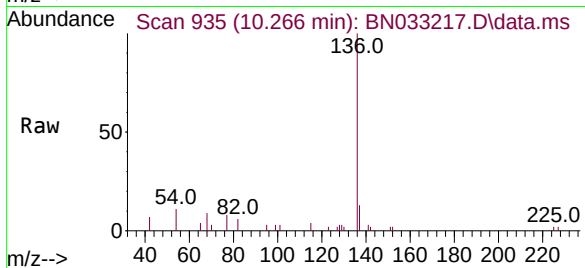
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.266 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion:	136	Resp:	8090
Ion Ratio	Lower	Upper	
136	100		
137	13.0	9.9	14.9
54	11.0	6.5	9.7
68	9.0	5.8	8.8

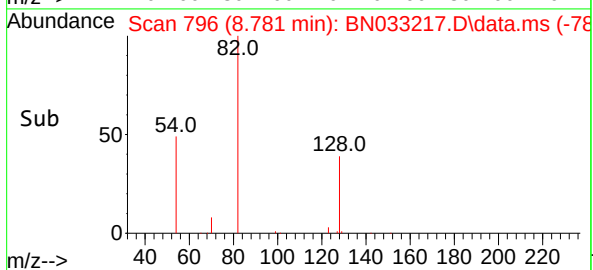
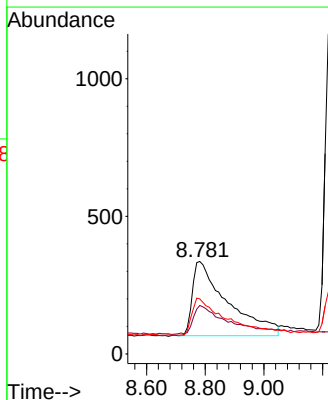
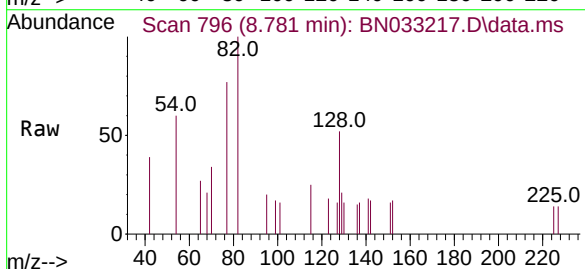
Manual Integrations
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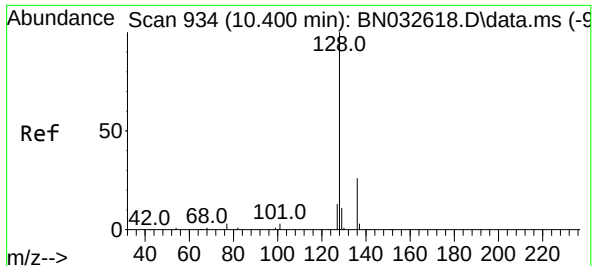
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.032 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:	82	Resp:	2263
Ion Ratio	Lower	Upper	
82	100		
128	52.4	41.7	62.5
54	59.5	39.5	59.3





#9

Naphthalene

Concen: 0.327 ng

RT: 10.319 min Scan# 940

Delta R.T. -0.021 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

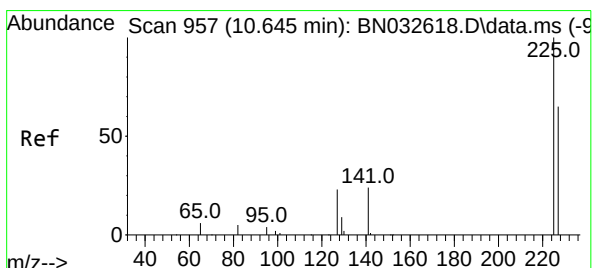
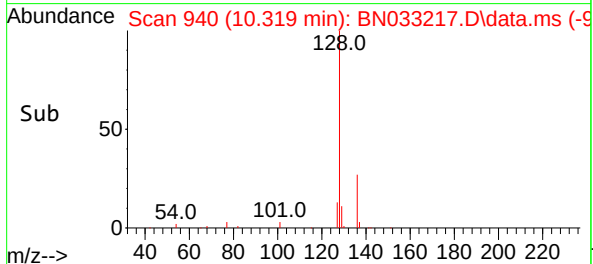
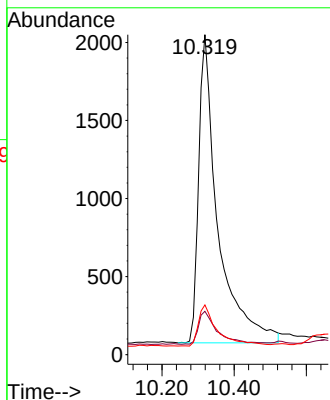
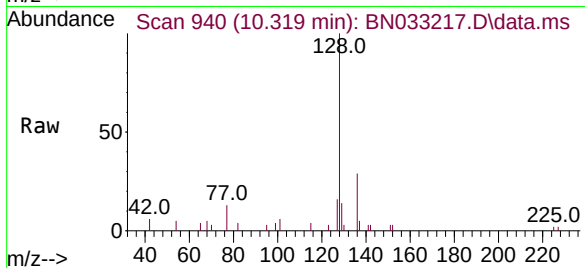
MLS-15-70-85MS

Tgt Ion:	128	Resp:	733
Ion	Ratio	Lower	Upper
128	100		
129	13.5	9.8	14.8
127	15.5	11.5	17.3

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#10

Hexachlorobutadiene

Concen: 0.243 ng

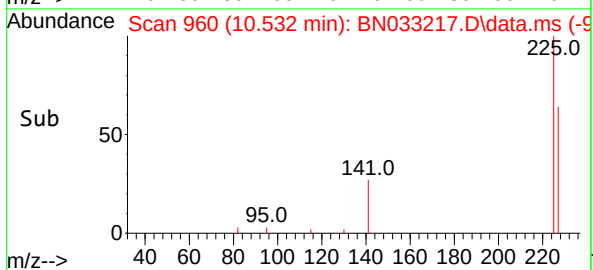
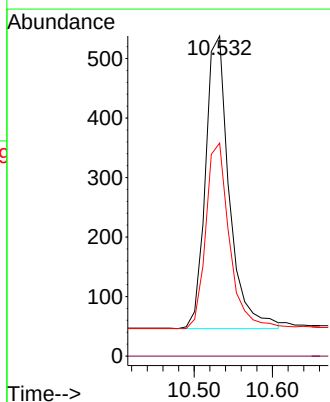
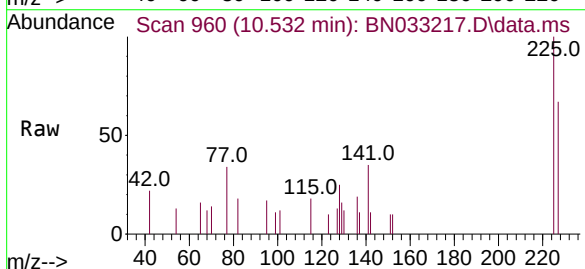
RT: 10.532 min Scan# 960

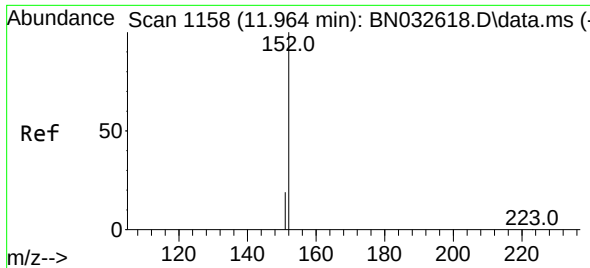
Delta R.T. 0.000 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Tgt Ion:	225	Resp:	1042
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.3	76.9





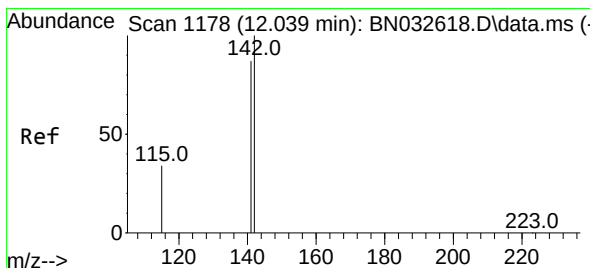
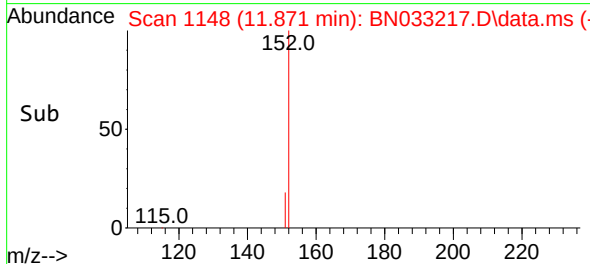
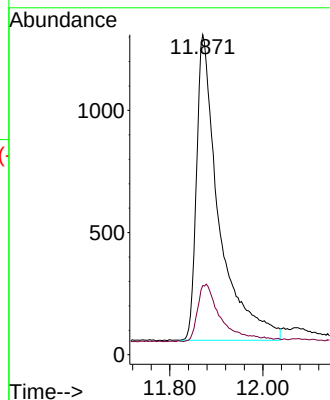
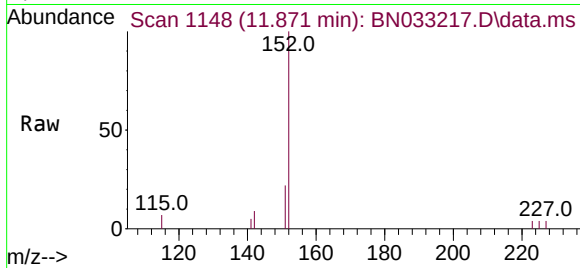
#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.871 min Scan# 1158
Delta R.T. -0.030 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion:152 Resp: 418
Ion Ratio Lower Upper
152 100
151 19.2 16.2 24.2

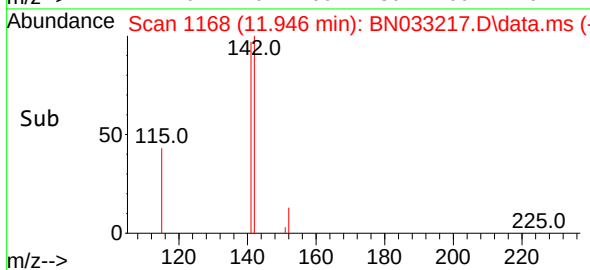
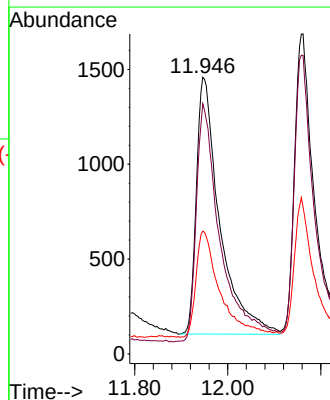
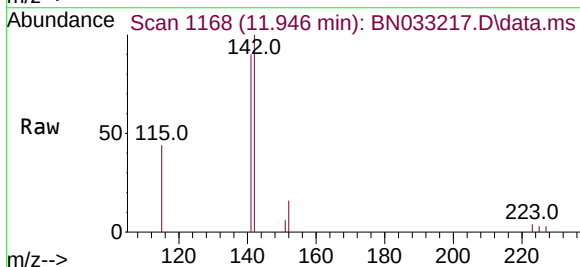
Manual Integrations
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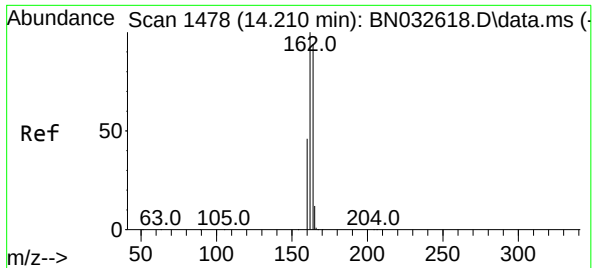
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.322 ng
RT: 11.946 min Scan# 1168
Delta R.T. -0.030 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

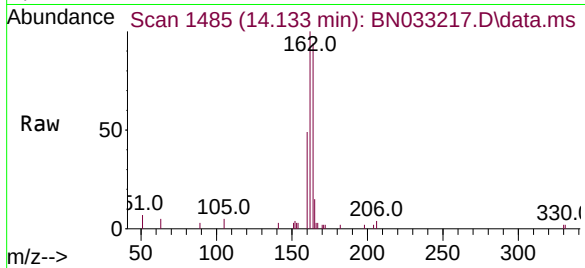
Tgt Ion:142 Resp: 4712
Ion Ratio Lower Upper
142 100
141 90.5 69.3 103.9
115 44.4 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.133 min Scan# 1478
Delta R.T. -0.004 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

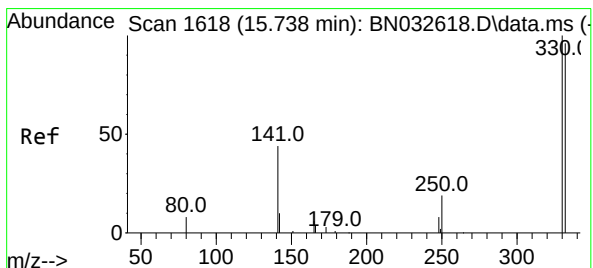
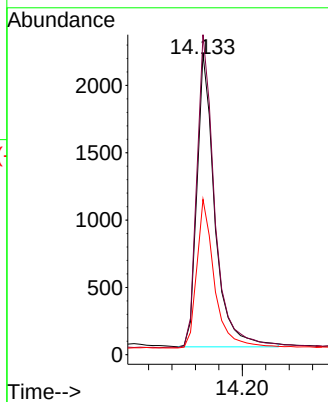
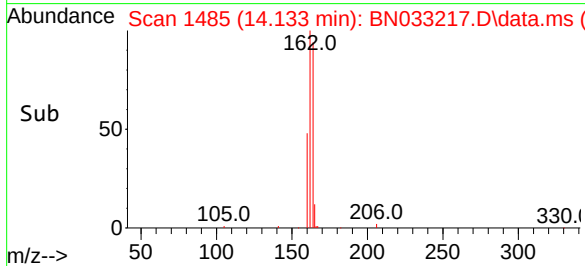
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



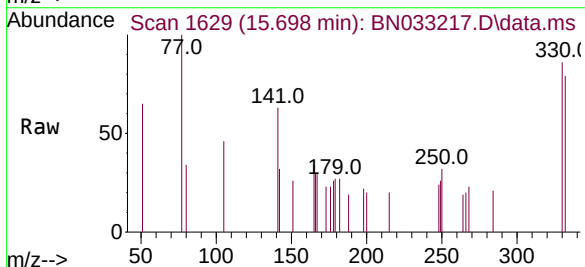
Tgt Ion:164 Resp: 461
Ion Ratio Lower Upper
164 100
162 106.3 85.0 127.4
160 51.6 39.4 59.2

Manual Integrations
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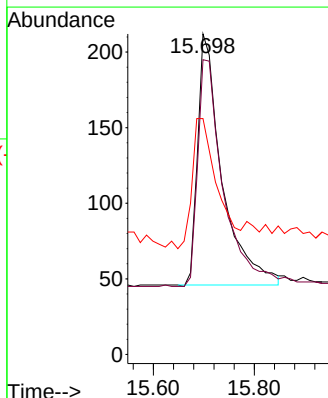
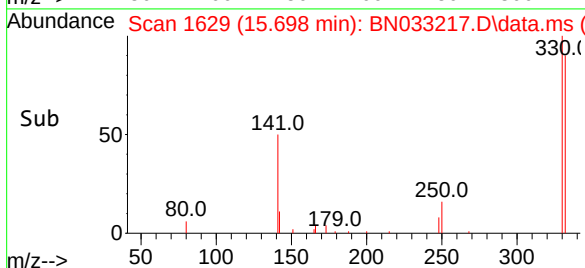
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

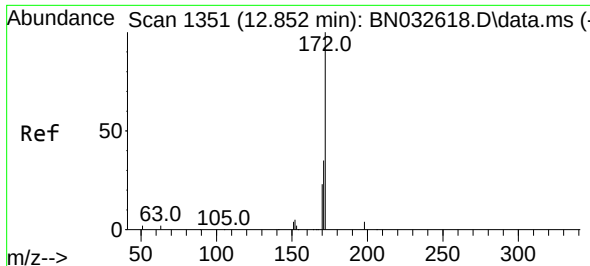


#14
2,4,6-Tribromophenol
Concen: 0.283 ng
RT: 15.698 min Scan# 1629
Delta R.T. -0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38



Tgt Ion:330 Resp: 557
Ion Ratio Lower Upper
330 100
332 95.5 77.8 116.8
141 53.1 34.2 51.2#





#15

2-Fluorobiphenyl

Concen: 0.359 ng

RT: 12.765 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

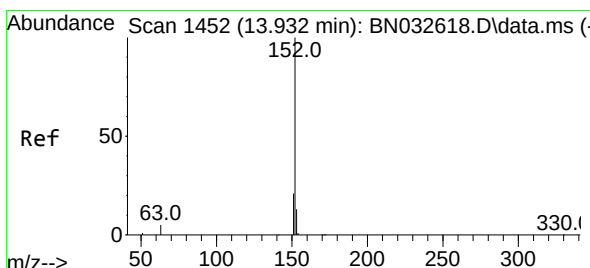
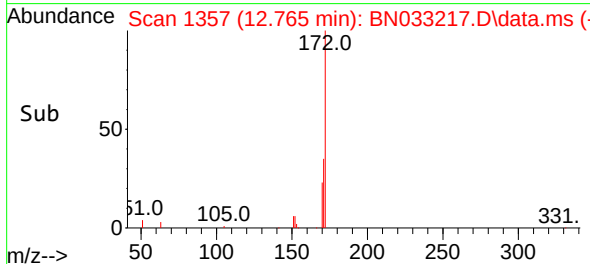
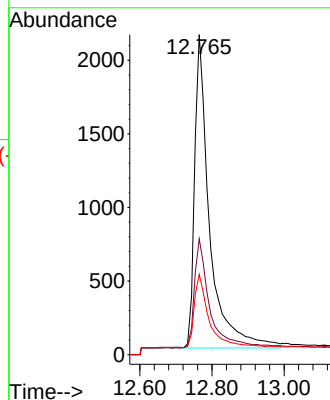
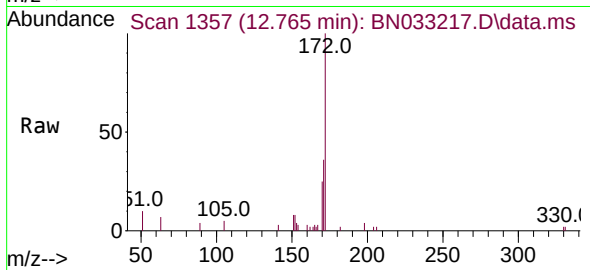
MLS-15-70-85MS

Tgt Ion:	172	Resp:	615
Ion Ratio	Lower	Upper	
172	100		
171	36.2	28.6	43.0
170	25.1	19.0	28.6

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#16

Acenaphthylene

Concen: 0.390 ng

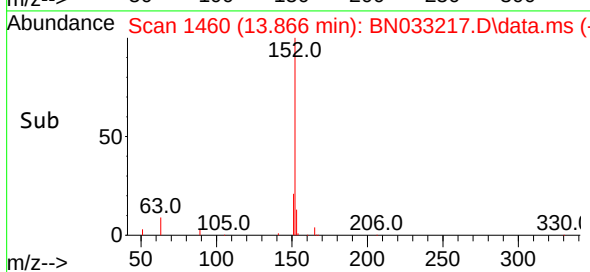
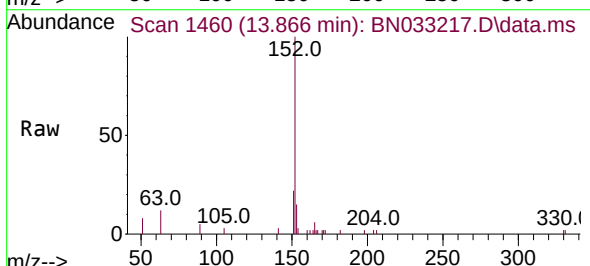
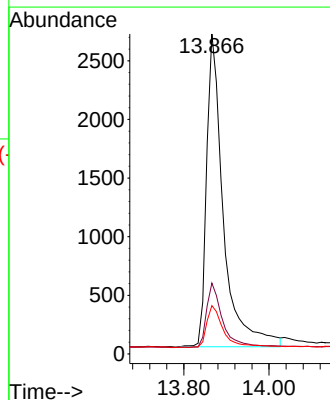
RT: 13.866 min Scan# 1460

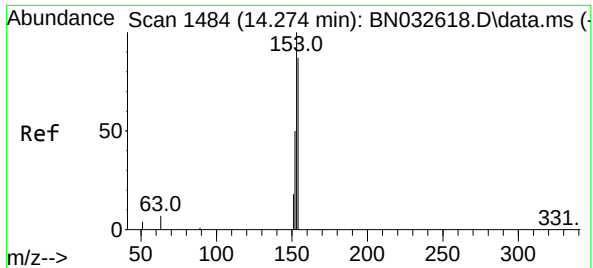
Delta R.T. -0.004 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

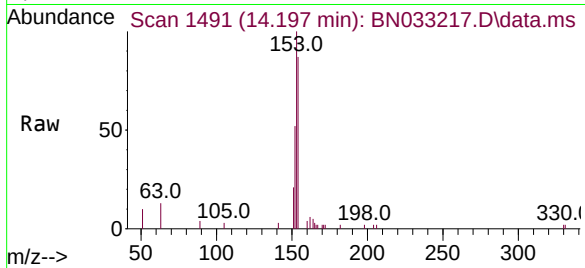
Tgt Ion:	152	Resp:	7316
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.0	24.0
153	13.1	10.6	15.8





#17
Acenaphthene
Concen: 0.372 ng
RT: 14.197 min Scan# 1484
Delta R.T. -0.004 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

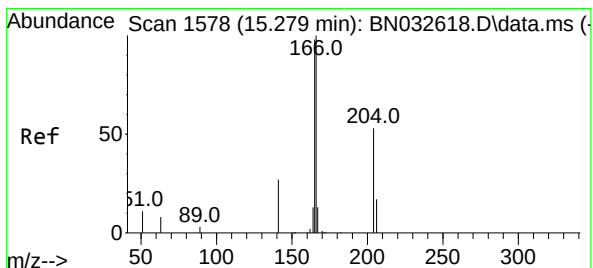
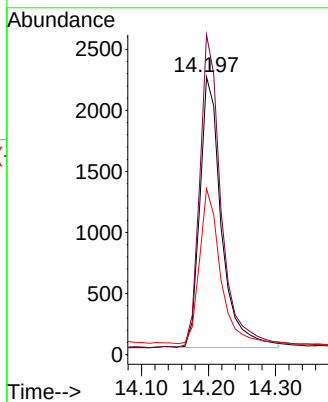
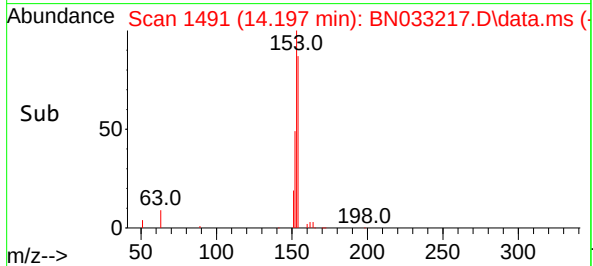
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



Tgt Ion:154 Resp: 494
Ion Ratio Lower Upper
154 100
153 115.0 91.8 137.8
152 55.0 45.2 67.8

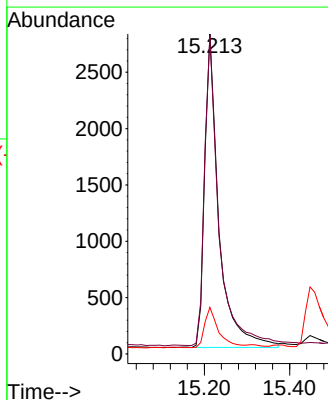
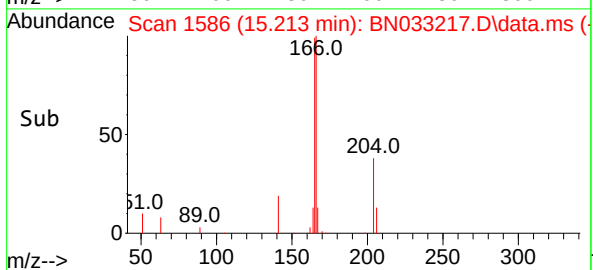
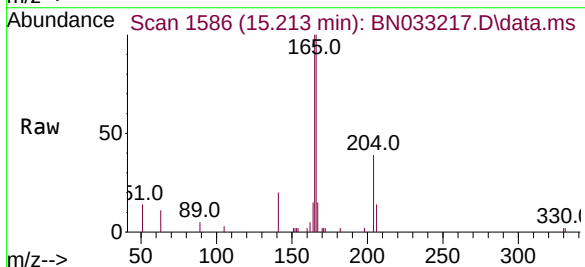
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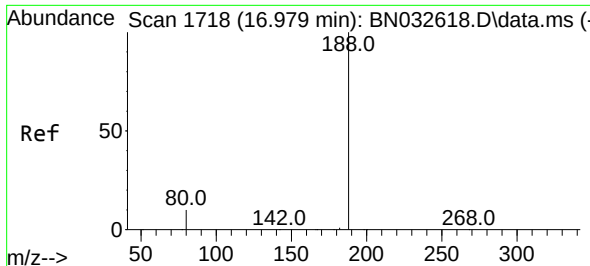
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.363 ng
RT: 15.213 min Scan# 1586
Delta R.T. -0.004 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:166 Resp: 6445
Ion Ratio Lower Upper
166 100
165 99.2 78.0 117.0
167 12.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.915 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS

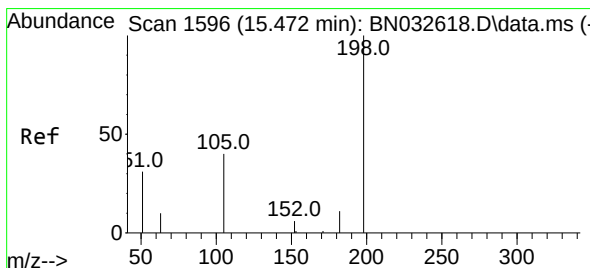
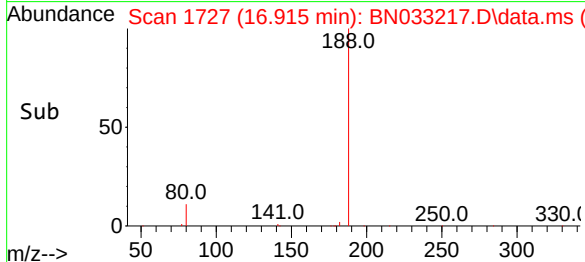
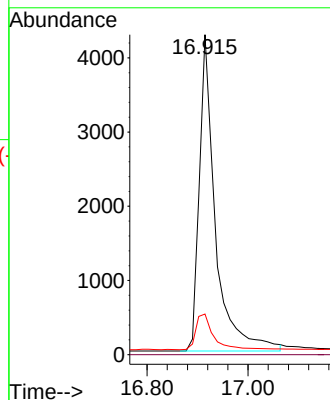
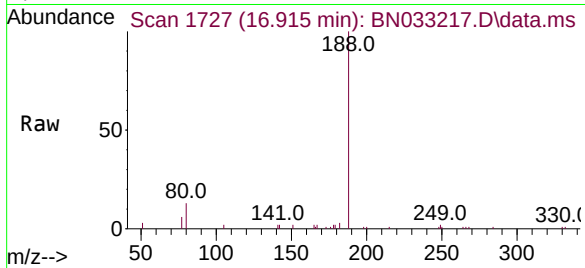
Tgt Ion:188	Resp:	945
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	12.7	13.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.357 ng

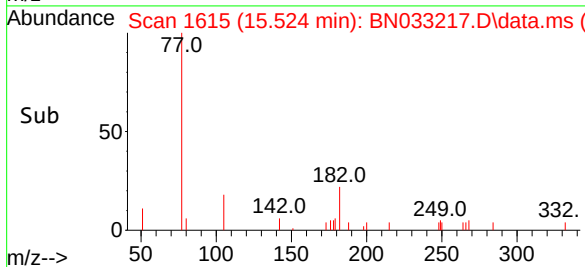
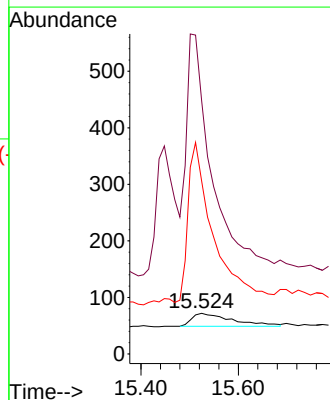
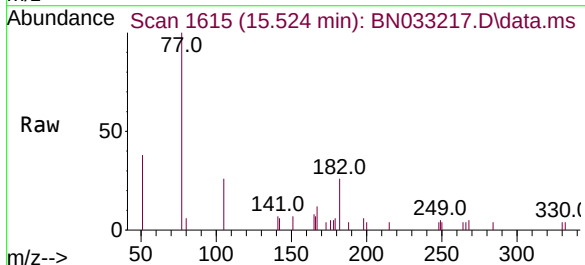
RT: 15.524 min Scan# 1615

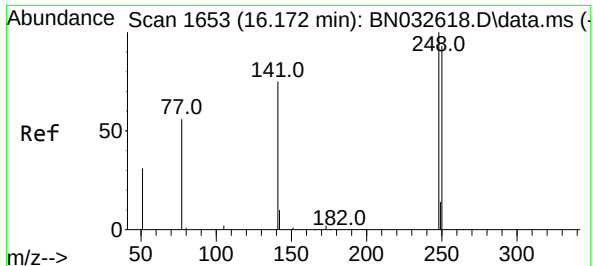
Delta R.T. -0.030 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Tgt Ion:198	Resp:	132
Ion Ratio	Lower	Upper
198	100	
51	622.2	105.7
105	425.0	63.0





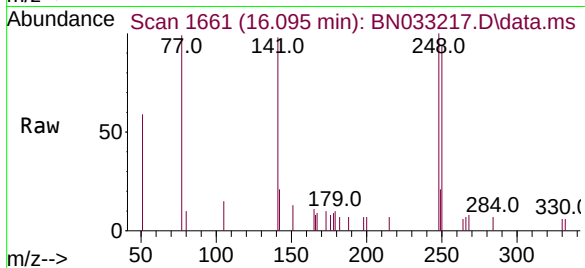
#21
4-Bromophenyl-phenylether
Concen: 0.344 ng
RT: 16.095 min Scan# 1670
Delta R.T. -0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS



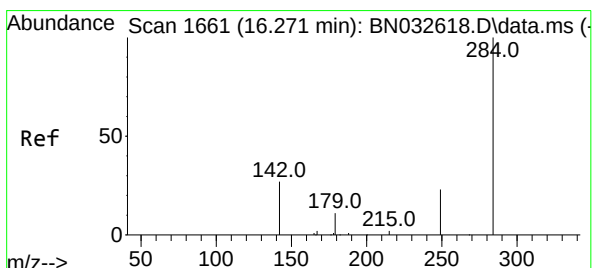
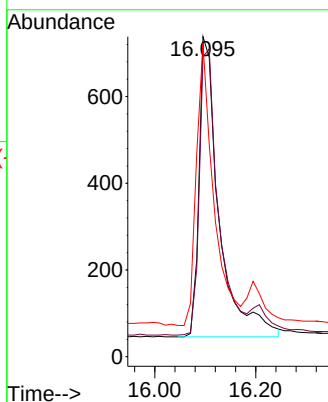
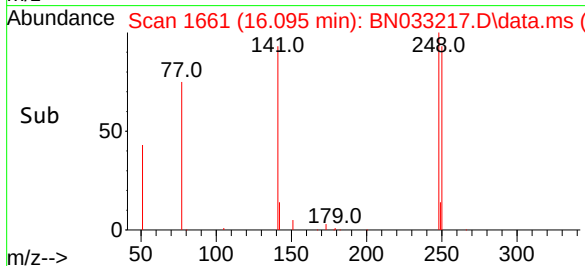
Tgt Ion:248 Resp: 1909
Ion Ratio Lower Upper
248 100
250 93.6 75.1 112.7
141 98.0 62.0 93.0

Manual Integrations

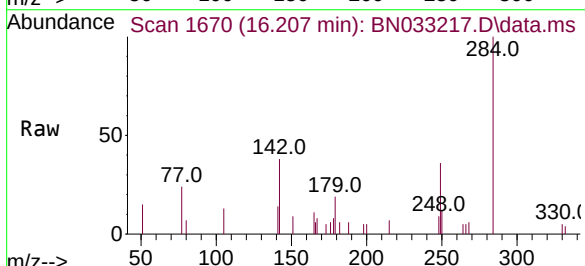
APPROVED

Reviewed By :Yogesh Patel 08/05/2024

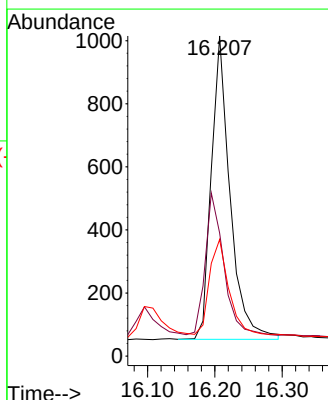
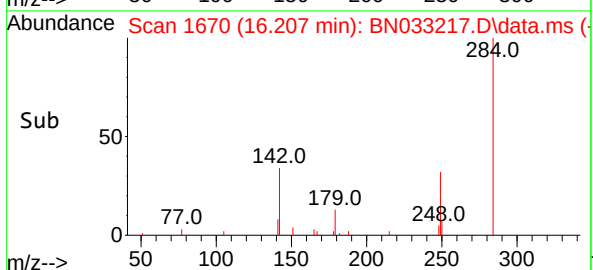
Supervised By :mohammad ahmed 08/07/2024

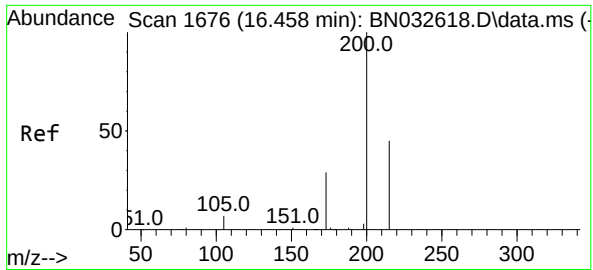


#22
Hexachlorobenzene
Concen: 0.299 ng
RT: 16.207 min Scan# 1670
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38



Tgt Ion:284 Resp: 1861
Ion Ratio Lower Upper
284 100
142 46.2 29.4 44.0#
249 32.5 24.6 36.8





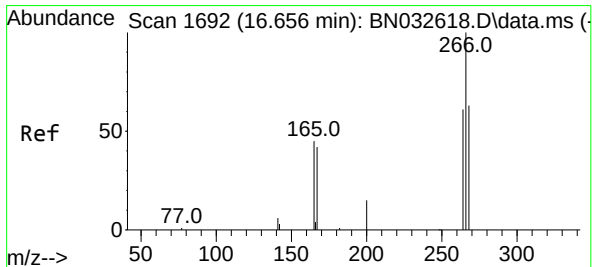
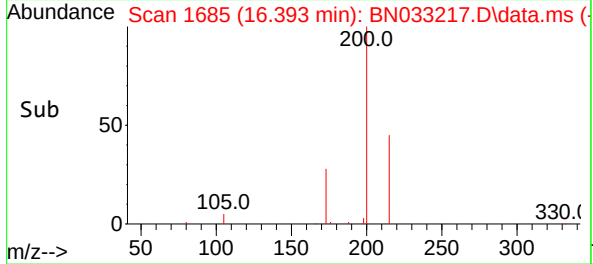
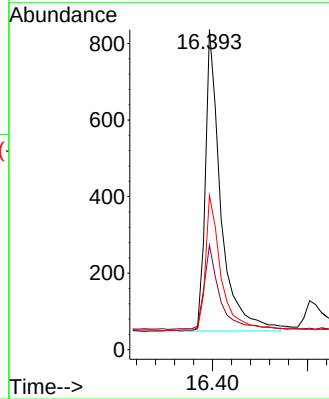
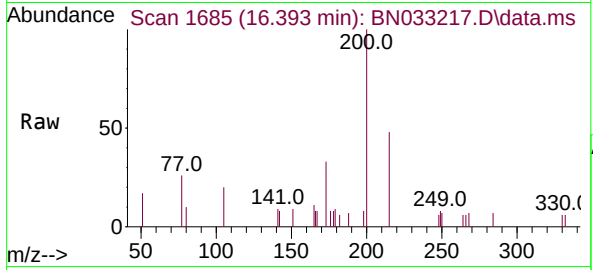
#23
Atrazine
Concen: 0.436 ng
RT: 16.393 min Scan# 1703
Delta R.T. -0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion:200 Resp: 178
Ion Ratio Lower Upper
200 100
173 32.7 25.4 38.2
215 48.2 38.2 57.2

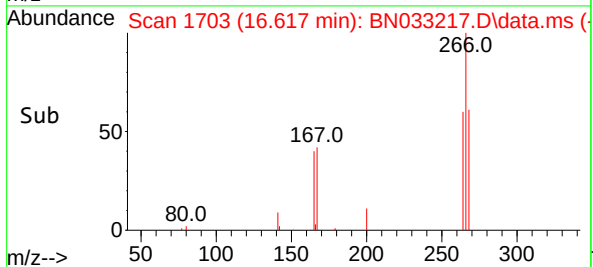
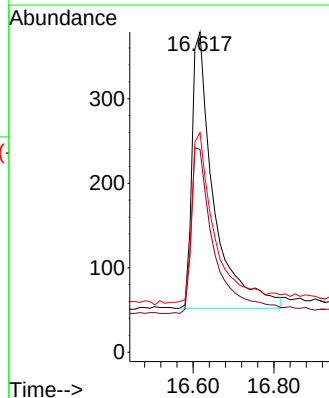
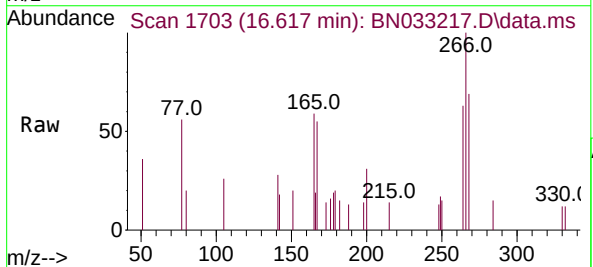
Manual Integrations
APPROVED

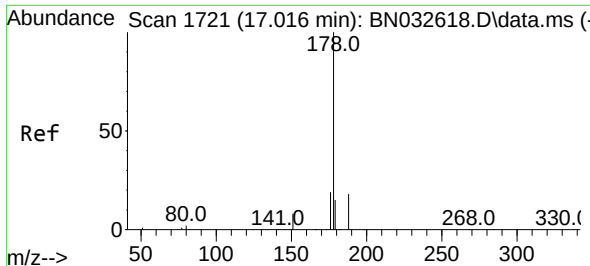
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.528 ng
RT: 16.617 min Scan# 1703
Delta R.T. -0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:266 Resp: 1221
Ion Ratio Lower Upper
266 100
264 63.1 50.2 75.2
268 65.0 52.8 79.2





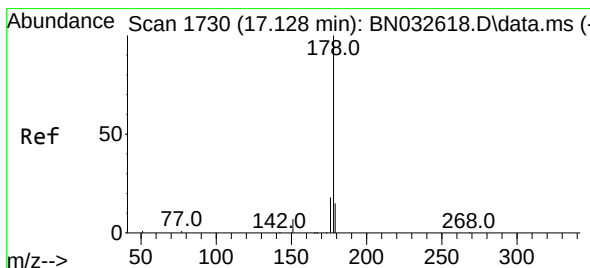
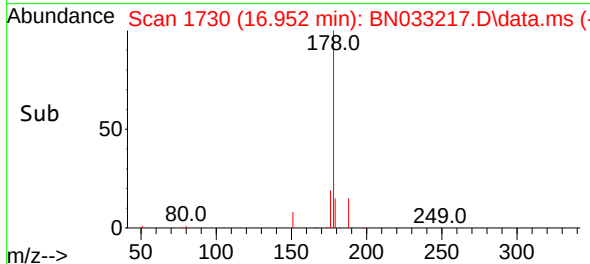
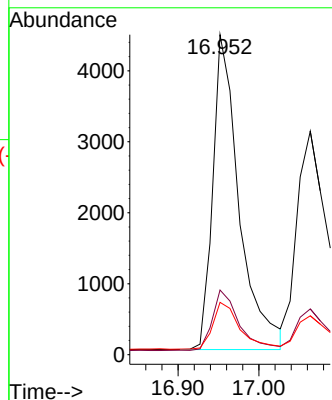
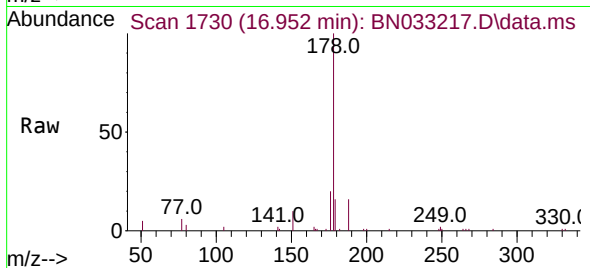
#25
Phenanthrene
Concen: 0.390 ng
RT: 16.952 min Scan# 1730
Delta R.T. -0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion:178 Resp: 1006
Ion Ratio Lower Upper
178 100
176 19.3 15.1 22.7
179 15.5 12.2 18.4

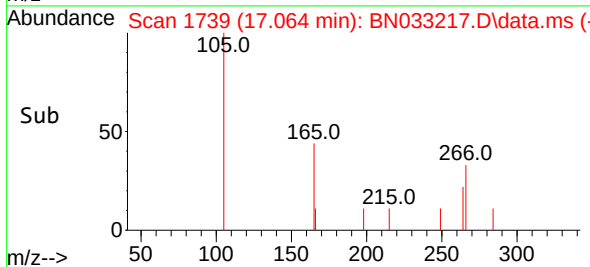
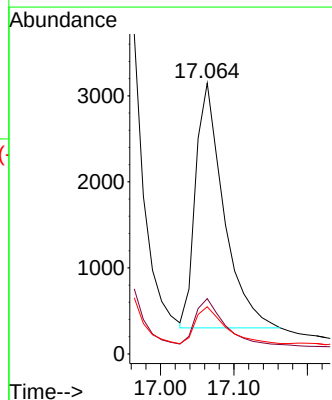
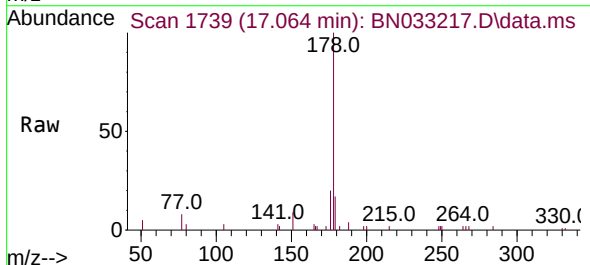
Manual Integrations
APPROVED

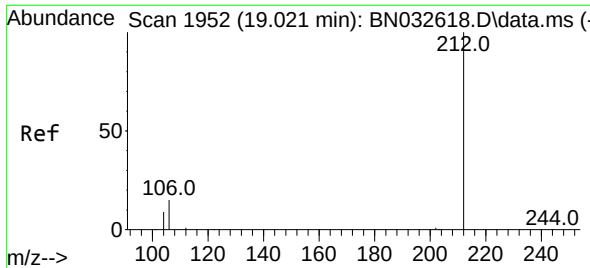
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.356 ng
RT: 17.064 min Scan# 1739
Delta R.T. -0.005 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:178 Resp: 7577
Ion Ratio Lower Upper
178 100
176 18.6 14.8 22.2
179 15.9 11.8 17.8





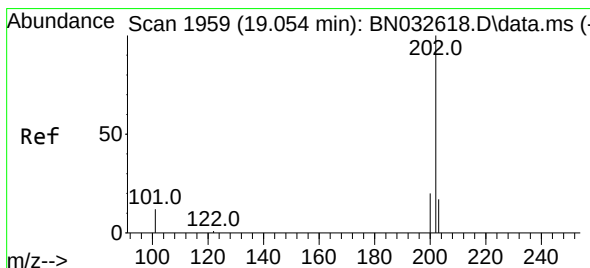
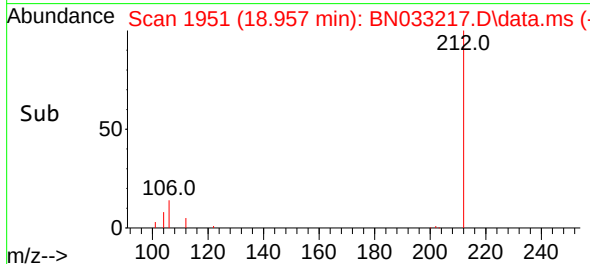
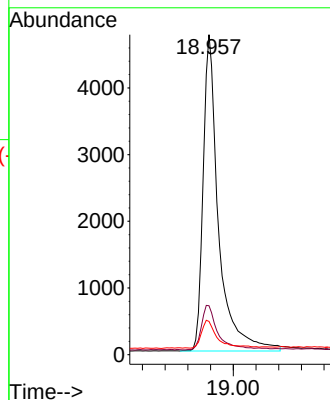
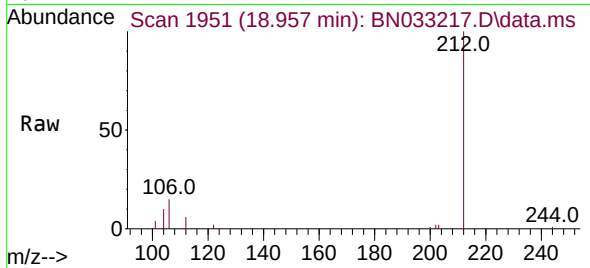
#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 18.957 min Scan# 1951
Delta R.T. -0.002 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.9	17.9
104	9.0	6.9	10.3

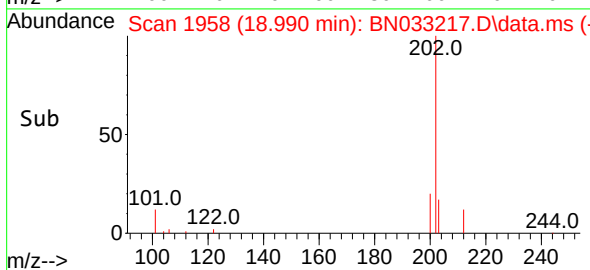
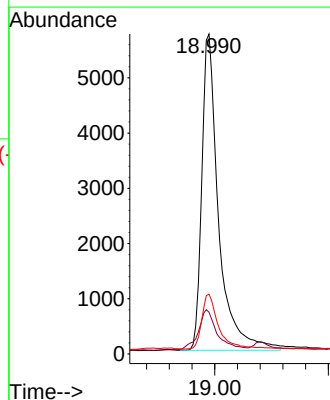
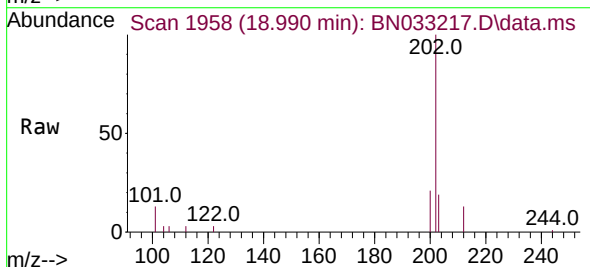
Manual Integrations
APPROVED

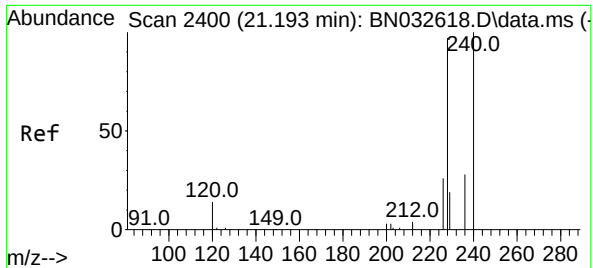
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#28
Fluoranthene
Concen: 0.376 ng
RT: 18.990 min Scan# 1958
Delta R.T. -0.002 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

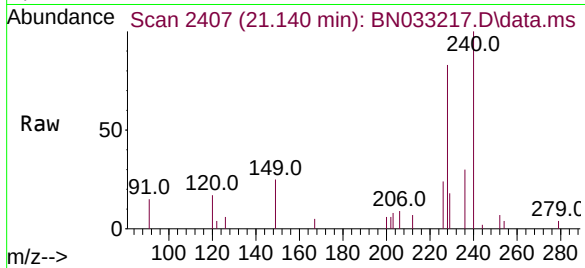
Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.9	9.6	14.4#
203	17.6	13.8	20.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.140 min Scan# 2407
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

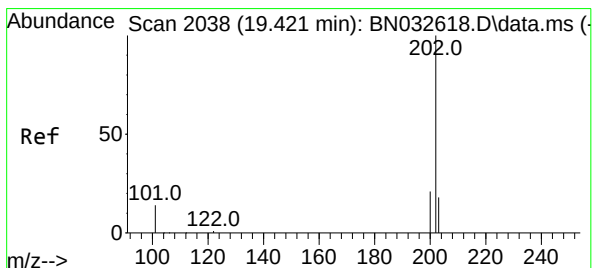
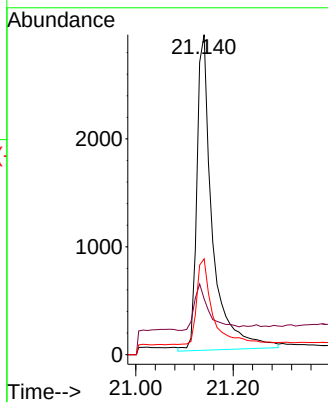
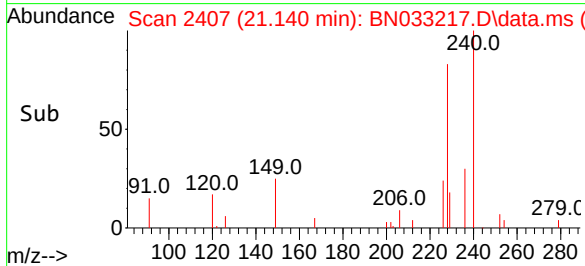
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



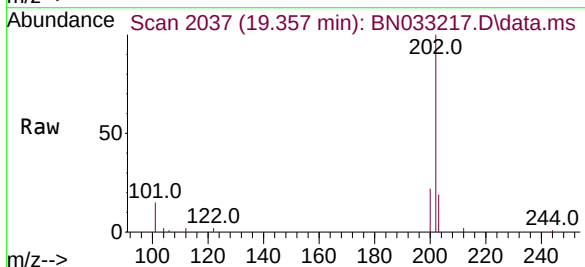
Tgt Ion:240 Resp: 6458
Ion Ratio Lower Upper
240 100
120 17.5 14.8 22.2
236 30.0 23.3 34.9

Manual Integrations
APPROVED

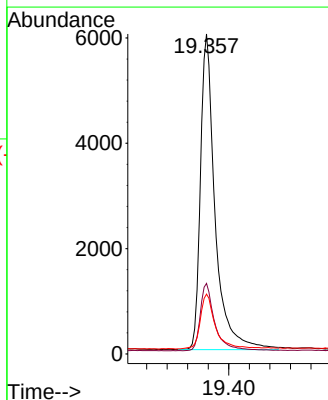
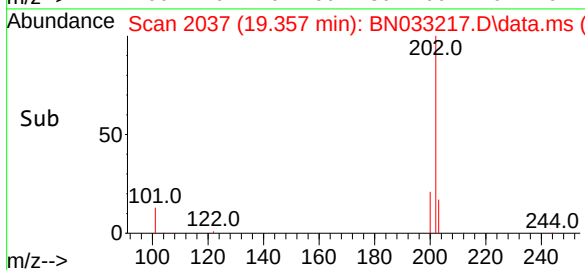
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

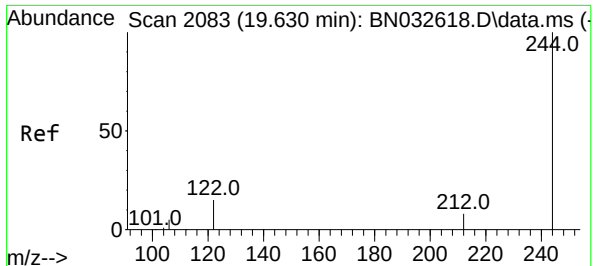


#30
Pyrene
Concen: 0.450 ng
RT: 19.357 min Scan# 2037
Delta R.T. -0.002 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38



Tgt Ion:202 Resp: 11859
Ion Ratio Lower Upper
202 100
200 21.2 16.6 25.0
203 17.9 14.8 22.2





#31
Terphenyl-d14
Concen: 0.518 ng
RT: 19.556 min Scan# 2080
Delta R.T. -0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

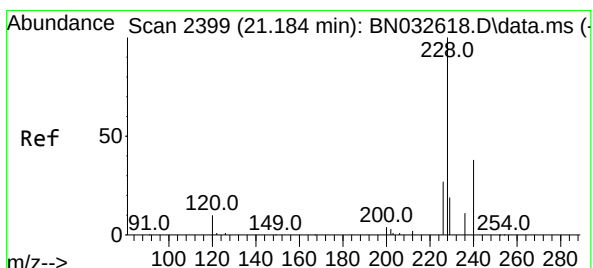
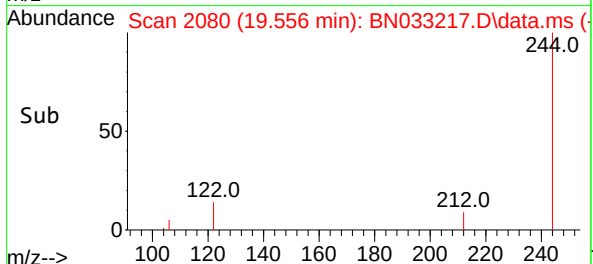
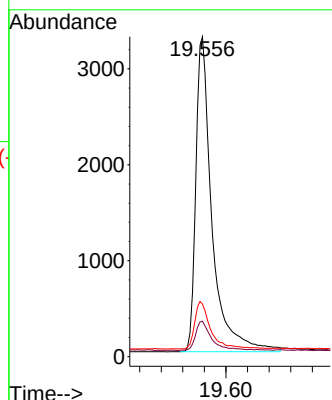
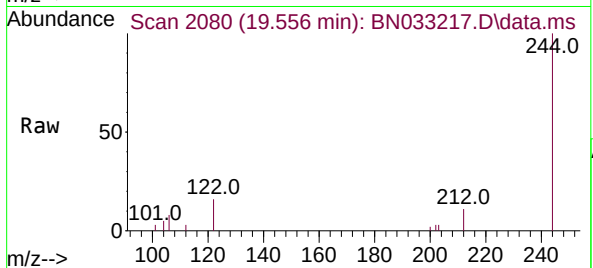
ClientSampleId :

MLS-15-70-85MS

Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.5	11.3
122	16.5	12.6	19.0

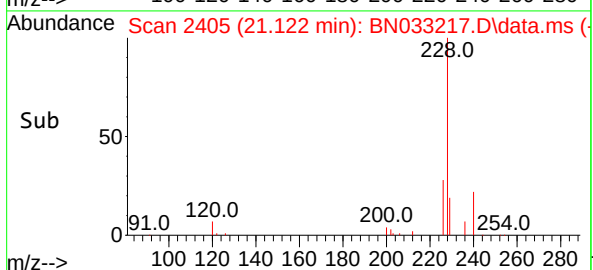
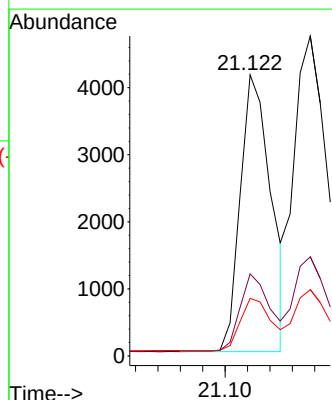
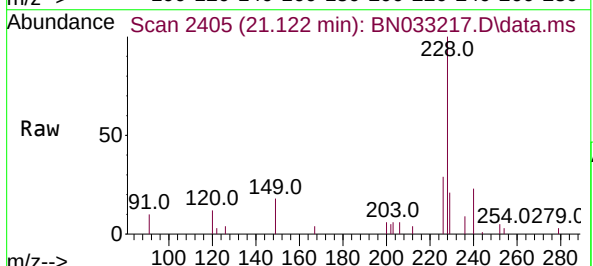
Manual Integrations
APPROVED

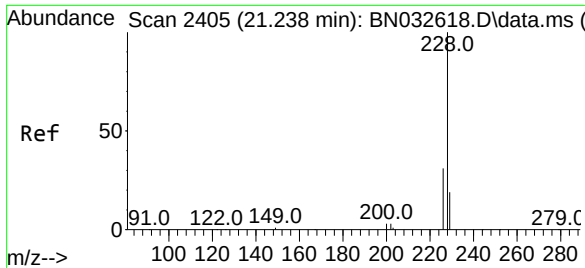
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.122 min Scan# 2405
Delta R.T. -0.002 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

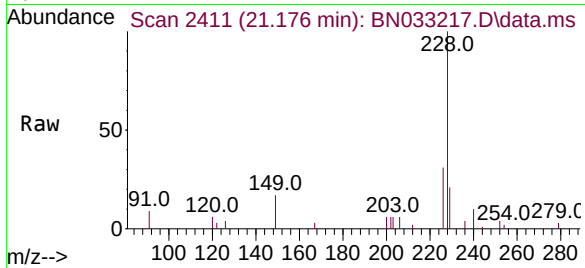
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	21.8	32.6
229	20.5	16.0	24.0





#33
Chrysene
Concen: 0.451 ng
RT: 21.176 min Scan# 2405
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

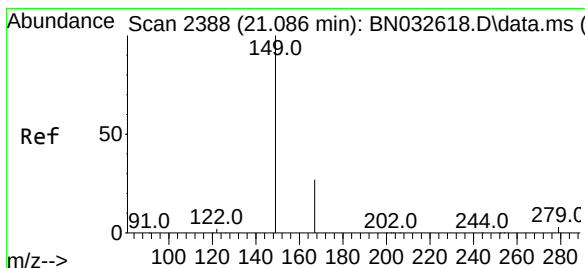
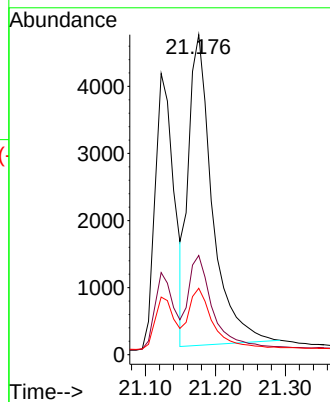
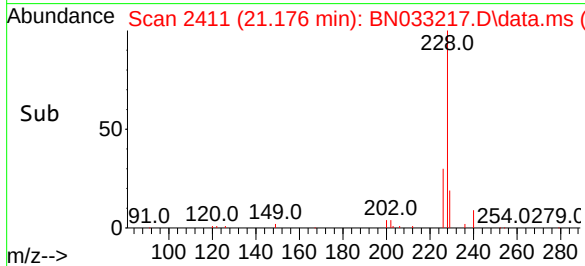
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



Tgt Ion:228 Resp: 1094
Ion Ratio Lower Upper
228 100
226 31.0 24.2 36.2
229 20.8 16.0 24.0

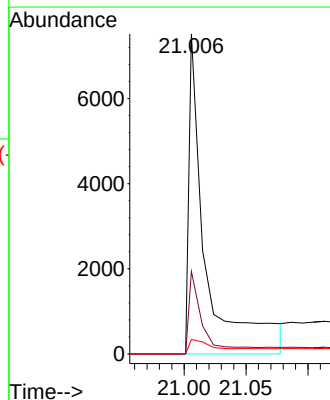
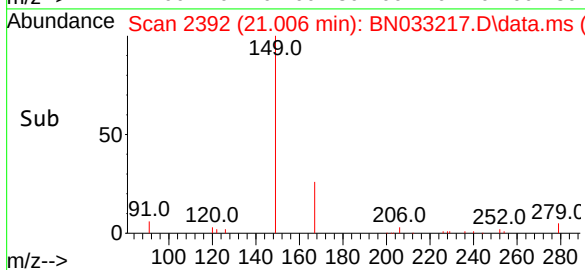
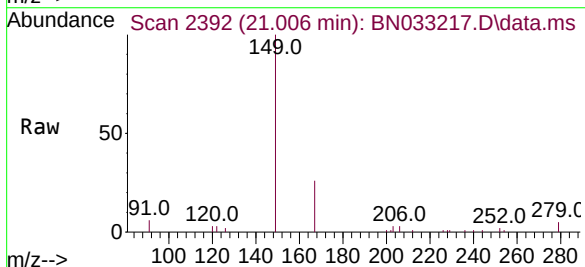
Manual Integrations
APPROVED

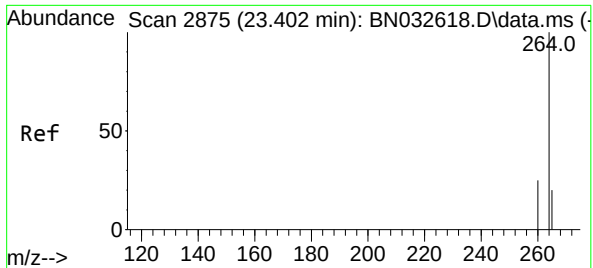
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.656 ng
RT: 21.006 min Scan# 2392
Delta R.T. -0.002 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

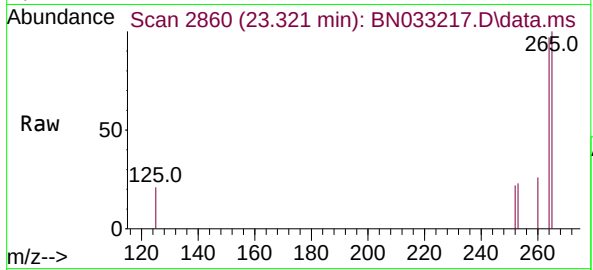
Tgt Ion:149 Resp: 7416
Ion Ratio Lower Upper
149 100
167 22.0 21.4 32.2
279 6.2 2.8 4.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.321 min Scan# 21
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

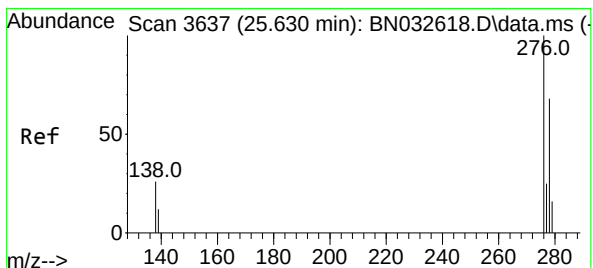
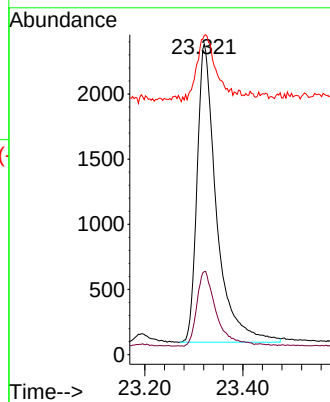
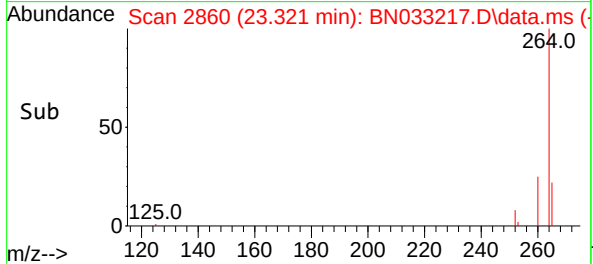
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MS



Tgt Ion:264 Resp: 6304
Ion Ratio Lower Upper
264 100
260 26.7 20.9 31.3
265 102.8 85.4 128.2

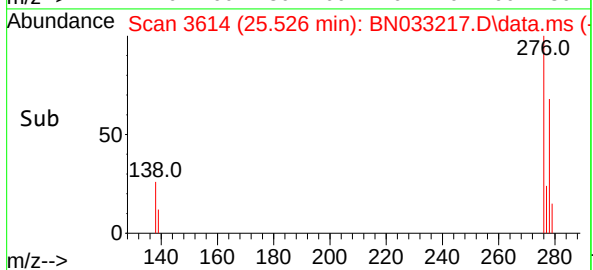
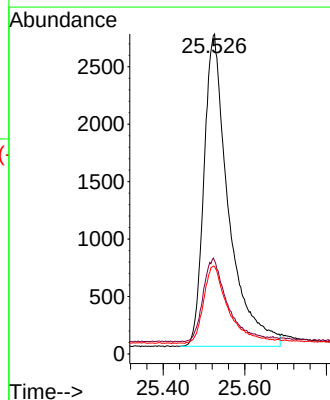
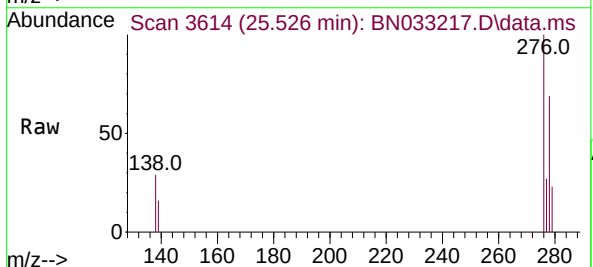
Manual Integrations
APPROVED

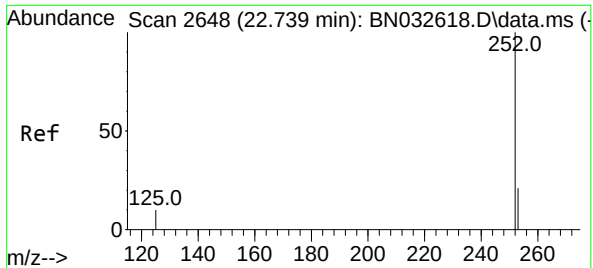
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.457 ng
RT: 25.526 min Scan# 3614
Delta R.T. 0.018 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Tgt Ion:276 Resp: 11360
Ion Ratio Lower Upper
276 100
138 26.4 21.0 31.4
277 24.9 19.5 29.3





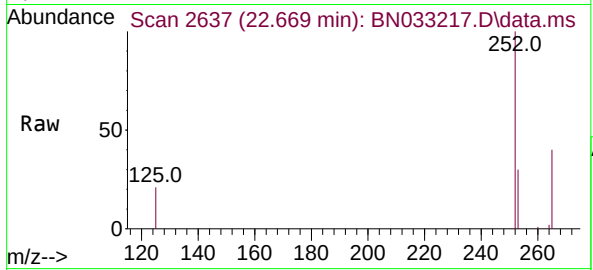
#37
Benzo(b)fluoranthene
Concen: 0.398 ng
RT: 22.669 min Scan# 2637
Delta R.T. 0.010 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS



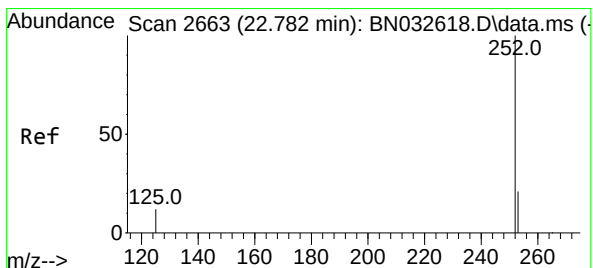
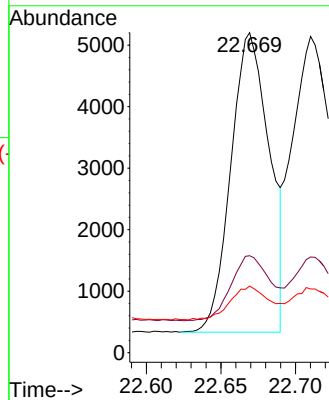
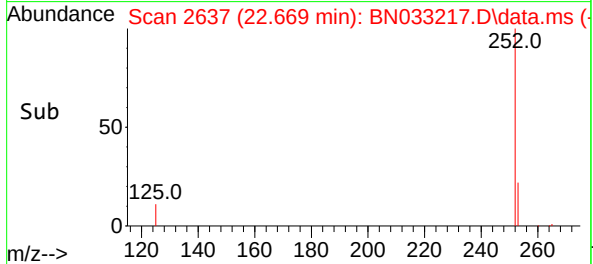
Tgt Ion:252 Resp: 8734
Ion Ratio Lower Upper
252 100
253 30.3 22.3 33.5
125 20.8 15.4 23.2

Manual Integrations

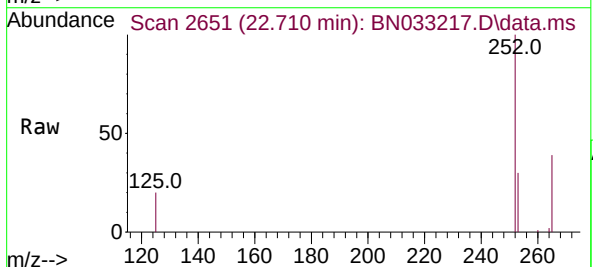
APPROVED

Reviewed By :Yogesh Patel 08/05/2024

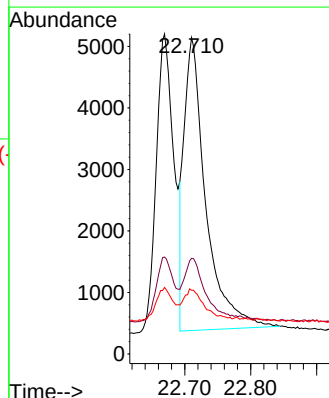
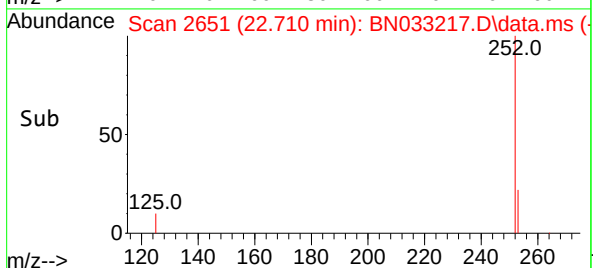
Supervised By :mohammad ahmed 08/07/2024

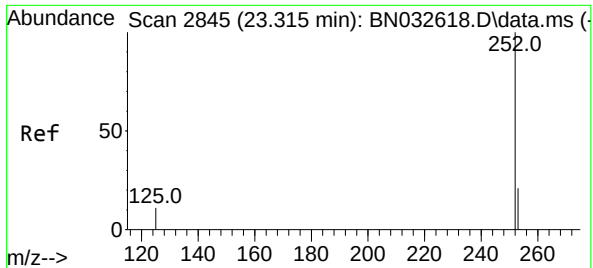


#38
Benzo(k)fluoranthene
Concen: 0.433 ng
RT: 22.710 min Scan# 2651
Delta R.T. 0.007 min
Lab File: BN033217.D
Acq: 03 Aug 2024 00:38



Tgt Ion:252 Resp: 10874
Ion Ratio Lower Upper
252 100
253 30.3 22.6 34.0
125 20.1 16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.426 ng

RT: 23.239 min Scan# 21

Delta R.T. 0.015 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS

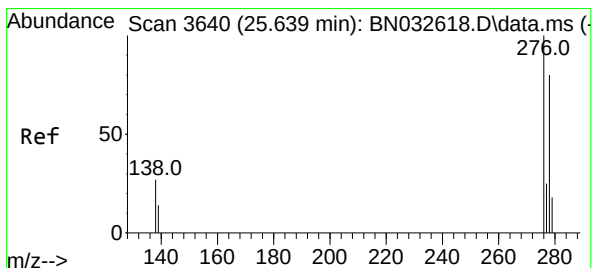
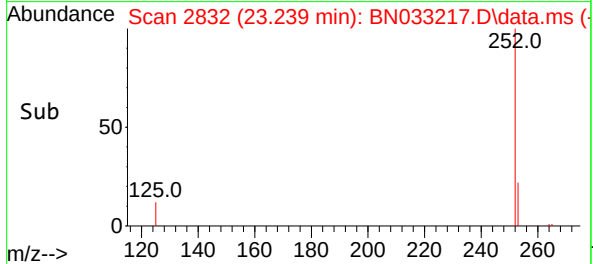
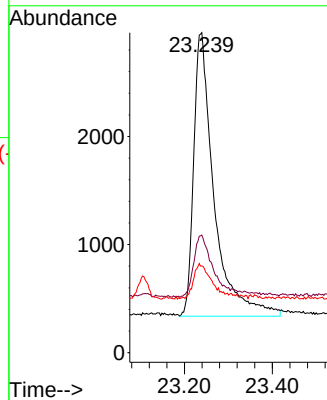
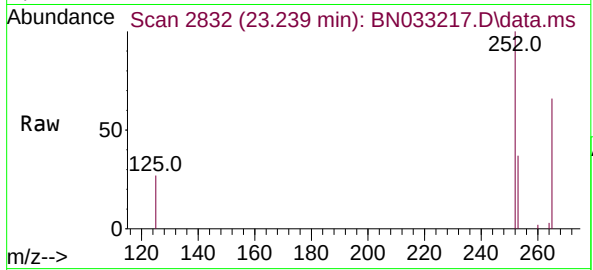
Tgt Ion:	252	Resp:	844
Ion Ratio	Lower	Upper	
252	100		
253	36.7	25.8	38.8
125	27.1	21.4	32.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.459 ng

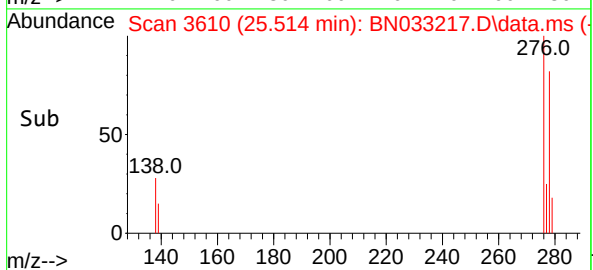
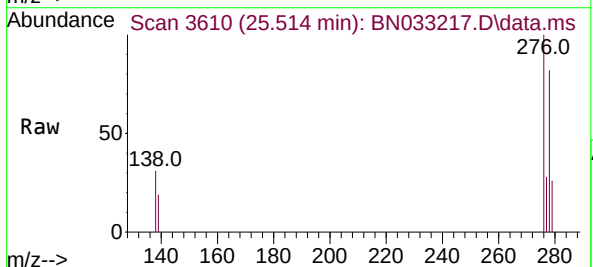
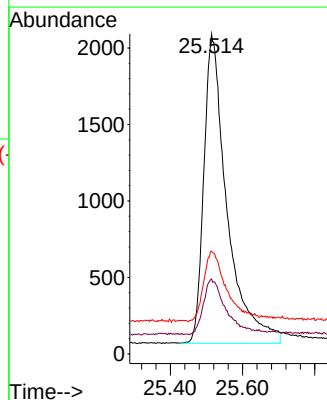
RT: 25.514 min Scan# 3610

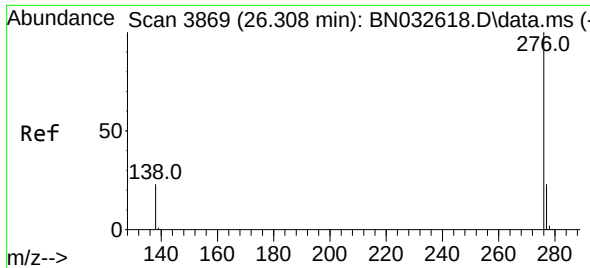
Delta R.T. 0.007 min

Lab File: BN033217.D

Acq: 03 Aug 2024 00:38

Tgt Ion:	278	Resp:	9001
Ion Ratio	Lower	Upper	
278	100		
139	23.4	16.7	25.1
279	32.1	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.411 ng

RT: 26.195 min Scan# 3843

Delta R.T. 0.018 min

Lab File: BN033217.D

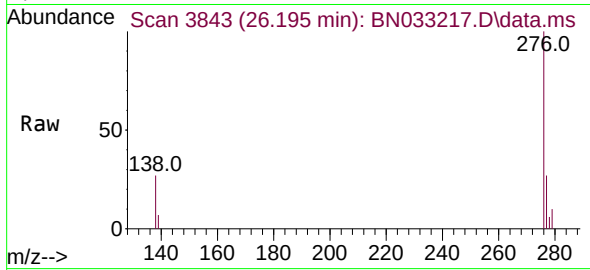
Acq: 03 Aug 2024 00:38

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MS



Tgt Ion:276 Resp: 893

Ion Ratio Lower Upper

276 100

277 27.1 20.2 30.2

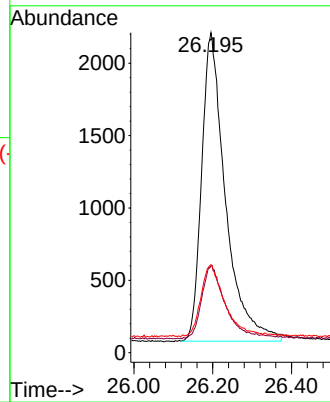
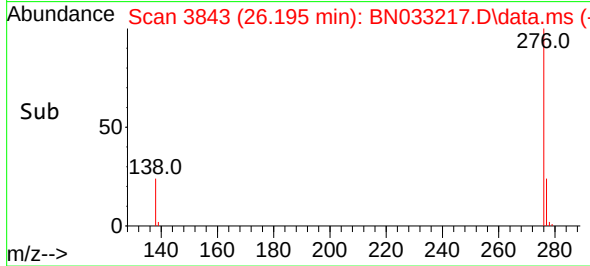
138 27.5 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/30/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	MLS-15-70-85MSD	SDG No.:	P3426
Lab Sample ID:	P3415-05MSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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
BN033218.D	1	08/01/24 08:58	08/03/24 01:15	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
91-20-3	Naphthalene	0.31		0.030	0.10	ug/L
91-57-6	2-Methylnaphthalene	0.30		0.030	0.10	ug/L
208-96-8	Acenaphthylene	0.36		0.020	0.10	ug/L
83-32-9	Acenaphthene	0.34		0.020	0.10	ug/L
86-73-7	Fluorene	0.34		0.020	0.10	ug/L
85-01-8	Phenanthrene	0.37		0.020	0.10	ug/L
120-12-7	Anthracene	0.34		0.030	0.10	ug/L
206-44-0	Fluoranthene	0.35		0.020	0.10	ug/L
129-00-0	Pyrene	0.42		0.020	0.10	ug/L
56-55-3	Benzo(a)anthracene	0.39		0.020	0.10	ug/L
218-01-9	Chrysene	0.42		0.030	0.10	ug/L
205-99-2	Benzo(b)fluoranthene	0.35		0.030	0.10	ug/L
207-08-9	Benzo(k)fluoranthene	0.38		0.040	0.10	ug/L
50-32-8	Benzo(a)pyrene	0.39		0.060	0.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.43		0.040	0.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.43		0.040	0.10	ug/L
191-24-2	Benzo(g,h,i)perylene	0.39		0.040	0.10	ug/L
123-91-1	1,4-Dioxane	0.16	J	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.31		30 (30) - 150 (150)	78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 (30) - 150 (150)	82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		30 (11) - 130 (175)	85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		30 (10) - 130 (175)	84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		30 (54) - 130 (171)	122%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2530	7.51			
1146-65-2	Naphthalene-d8	8620	10.266			
15067-26-2	Acenaphthene-d10	4390	14.137			
1517-22-2	Phenanthrene-d10	8780	16.92			

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	07/30/24
Project:	Former Schlumberger Site Princeton NJ	Date Received:	07/31/24
Client Sample ID:	MLS-15-70-85MSD	SDG No.:	P3426
Lab Sample ID:	P3415-05MSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	960 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
BN033218.D	1	08/01/24 08:58	08/03/24 01:15	PB162424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1719-03-5	Chrysene-d12	5890	21.134			
1520-96-3	Perylene-d12	6810	23.32			

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\BN080324\
 Data File : BN033218.D
 Acq On : 03 Aug 2024 01:15
 Operator : MA/JU
 Sample : P3415-05MSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MLS-15-70-85MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

Quant Time: Aug 03 02:00:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.510	152	2530	0.400	ng	0.00
7) Naphthalene-d8	10.266	136	8615	0.400	ng	#-0.02
13) Acenaphthene-d10	14.137	164	4385	0.400	ng	0.00
19) Phenanthrene-d10	16.920	188	8776	0.400	ng	0.00
29) Chrysene-d12	21.134	240	5889	0.400	ng	0.00
35) Perylene-d12	23.320	264	6810	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1088	0.170	ng	-0.06
5) Phenol-d6	6.925	99	837m	0.105	ng	0.04
8) Nitrobenzene-d5	8.781	82	2205	0.340	ng	-0.03
11) 2-Methylnaphthalene-d10	11.875	152	4098	0.311	ng	-0.03
14) 2,4,6-Tribromophenol	15.704	330	493	0.263	ng	-0.01
15) 2-Fluorobiphenyl	12.768	172	5525	0.338	ng	-0.02
27) Fluoranthene-d10	18.955	212	7441	0.328	ng	0.00
31) Terphenyl-d14	19.554	244	5868	0.486	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.083	88	489	0.156	ng	# 64
3) n-Nitrosodimethylamine	3.494	42	393	0.148	ng	# 89
6) bis(2-Chloroethyl)ether	6.990	93	2887	0.435	ng	91
9) Naphthalene	10.319	128	7055	0.296	ng	96
10) Hexachlorobutadiene	10.532	225	1012	0.222	ng	# 99
12) 2-Methylnaphthalene	11.950	142	4456	0.286	ng	# 95
16) Acenaphthylene	13.869	152	6211	0.348	ng	99
17) Acenaphthene	14.201	154	4189	0.331	ng	98
18) Fluorene	15.216	166	5441	0.322	ng	98
20) 4,6-Dinitro-2-methylph...	15.530	198	121	0.356	ng	# 1
21) 4-Bromophenyl-phenylether	16.101	248	1600	0.310	ng	90
22) Hexachlorobenzene	16.213	284	1646	0.285	ng	# 91
23) Atrazine	16.399	200	1481	0.390	ng	97
24) Pentachlorophenol	16.610	266	1065	0.496	ng	98
25) Phenanthrene	16.957	178	8419	0.351	ng	99
26) Anthracene	17.057	178	6389	0.324	ng	99
28) Fluoranthene	18.987	202	9725	0.335	ng	98
30) Pyrene	19.354	202	9743	0.405	ng	99
32) Benzo(a)anthracene	21.125	228	6929	0.372	ng	97
33) Chrysene	21.169	228	8901	0.402	ng	97
34) Bis(2-ethylhexyl)phtha...	21.008	149	4068	0.395	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.519	276	11113	0.414	ng	99
37) Benzo(b)fluoranthene	22.666	252	7906	0.333	ng	95
38) Benzo(k)fluoranthene	22.709	252	9938	0.367	ng	96
39) Benzo(a)pyrene	23.233	252	8111	0.379	ng	96
40) Dibenzo(a,h)anthracene	25.513	278	8727	0.412	ng	95
41) Benzo(g,h,i)perylene	26.189	276	8736	0.372	ng	96

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

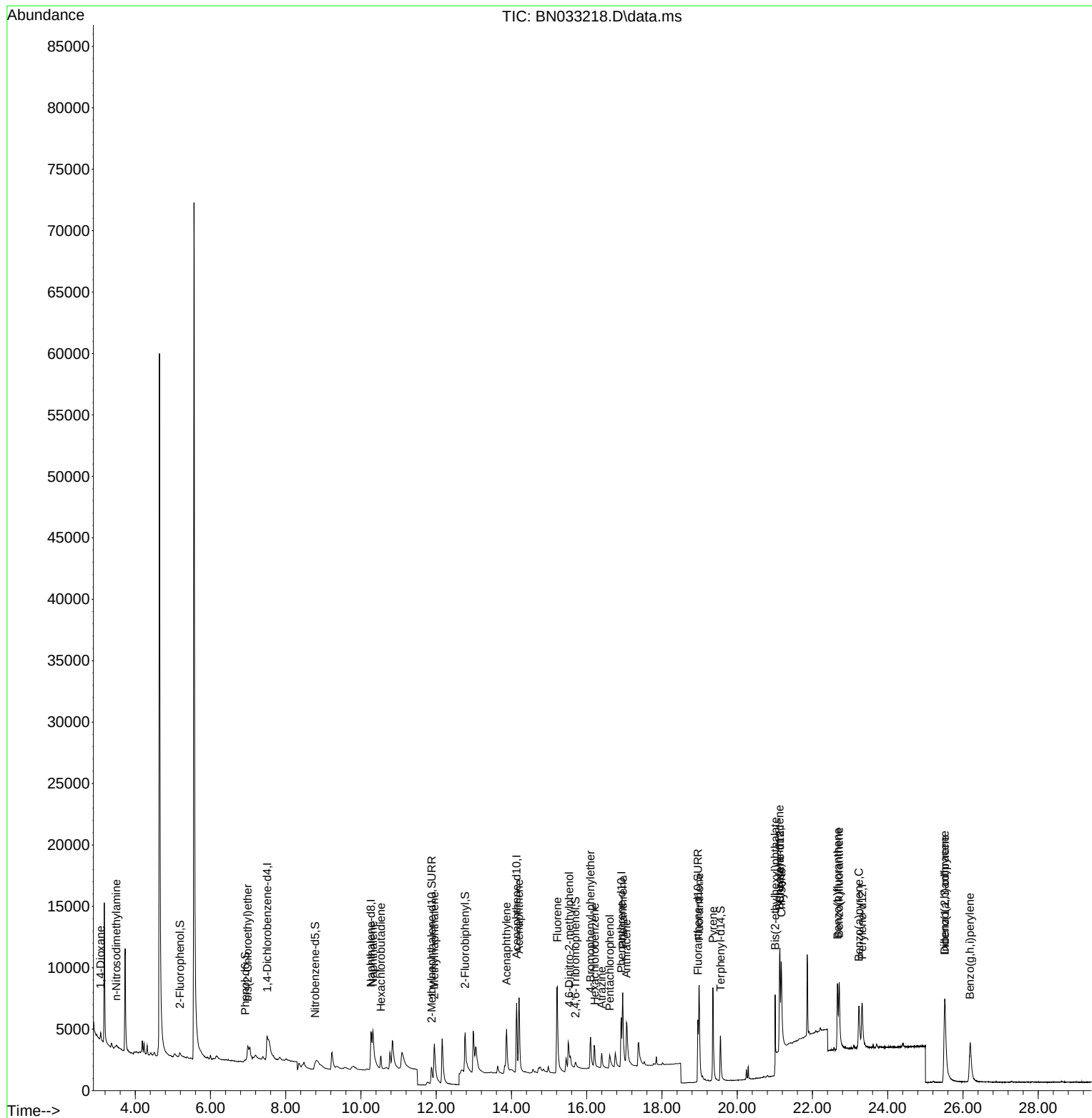
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN080324\
 Data File : BN033218.D
 Acq On : 03 Aug 2024 01:15
 Operator : MA/JU
 Sample : P3415-05MSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

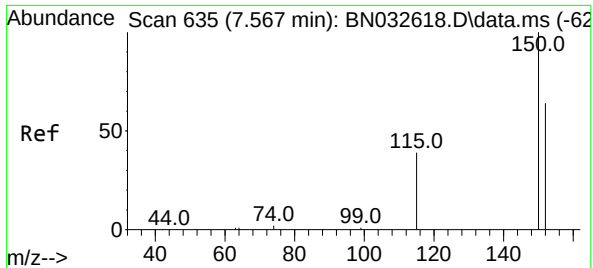
Instrument :
 BNA_N
 ClientSampleId :
 MLS-15-70-85MSD

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/05/2024
 Supervised By :mohammad ahmed 08/07/2024

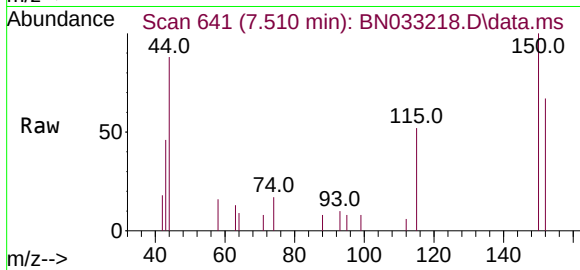
Quant Time: Aug 03 02:00:03 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN071124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 02 22:49:47 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.510 min Scan# 641
Delta R.T. 0.007 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

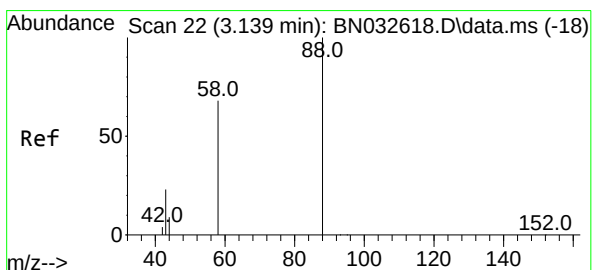
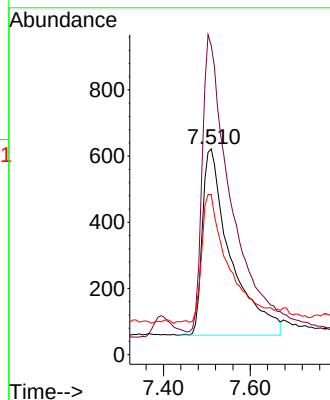
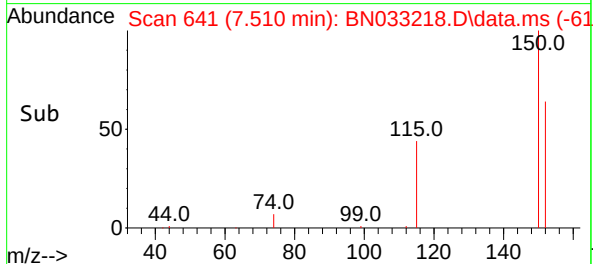
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion: 152 Resp: 2530
Ion Ratio Lower Upper
152 100
150 150.2 123.8 185.6
115 77.8 52.8 79.2

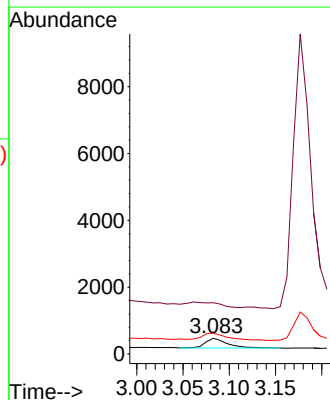
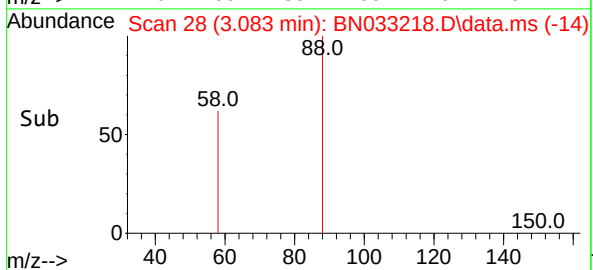
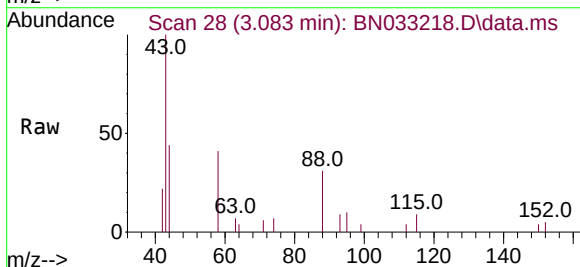
Manual Integrations
APPROVED

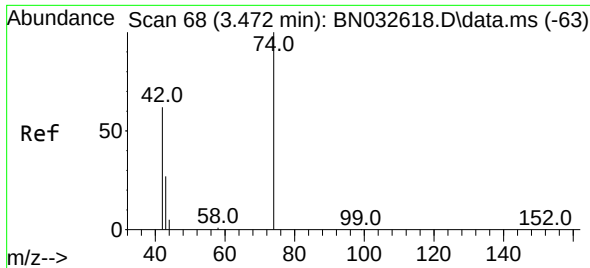
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#2
1,4-Dioxane
Concen: 0.156 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

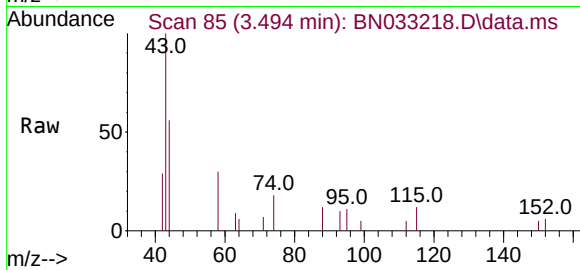
Tgt Ion: 88 Resp: 489
Ion Ratio Lower Upper
88 100
43 0.0 18.4 27.6#
58 86.1 49.2 73.8#





#3
n-Nitrosodimethylamine
Concen: 0.148 ng
RT: 3.494 min Scan# 81
Delta R.T. 0.022 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

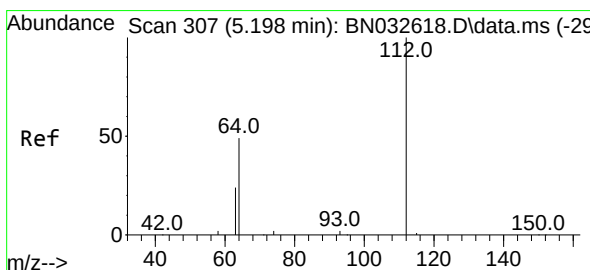
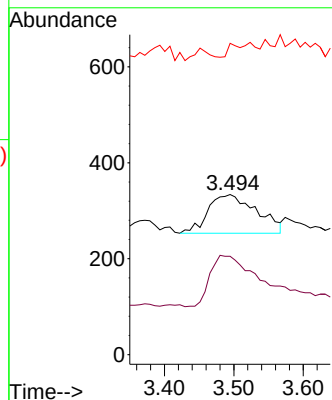
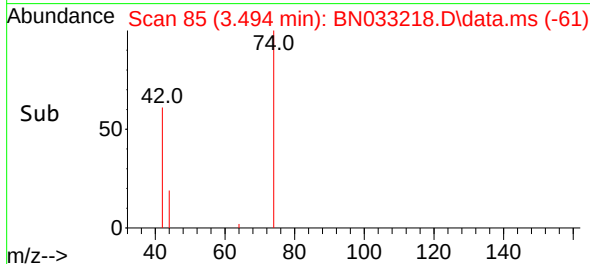
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion: 42 Resp: 39
Ion Ratio Lower Upper
42 100
74 143.5 126.9 190.3
44 8.1 4.8 7.2

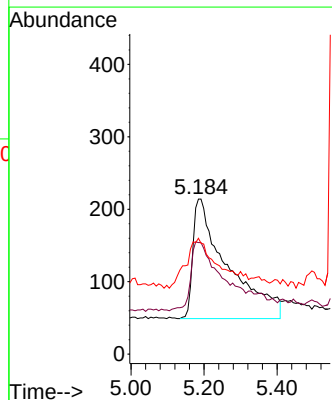
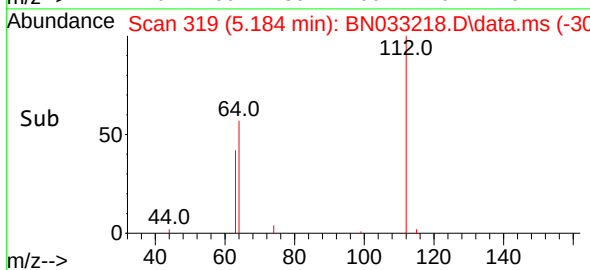
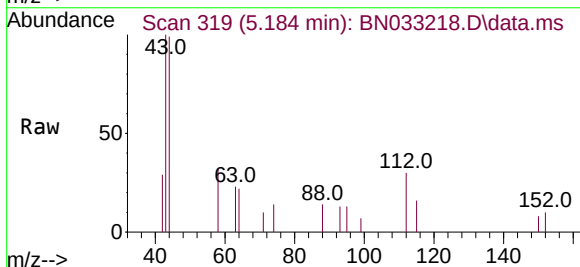
Manual Integrations
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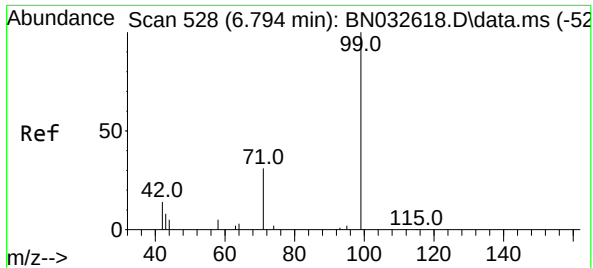
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#4
2-Fluorophenol
Concen: 0.170 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.058 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:112 Resp: 1088
Ion Ratio Lower Upper
112 100
64 51.7 40.2 60.4
63 31.2 22.2 33.4





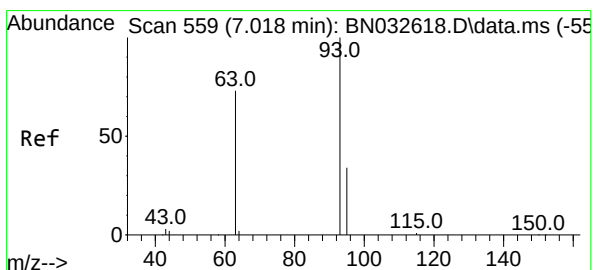
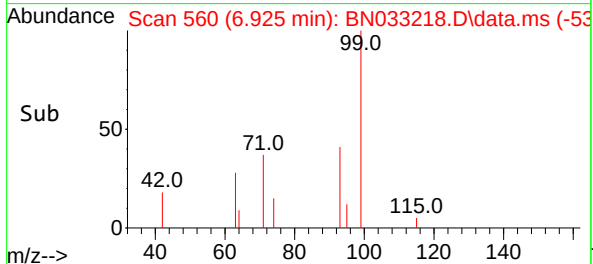
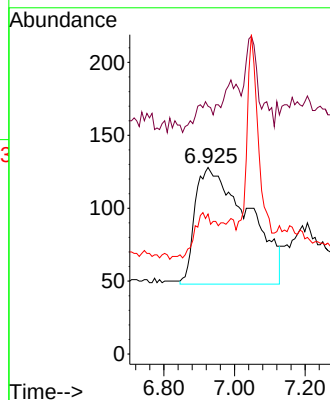
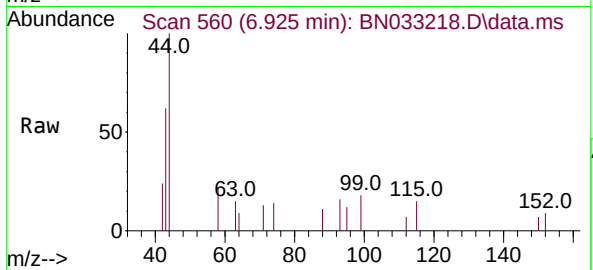
#5
Phenol-d6
Concen: 0.105 ng m
RT: 6.925 min Scan# 50
Delta R.T. 0.043 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion: 99 Resp: 83
Ion Ratio Lower Upper
99 100
42 8.1 10.5 15.7
71 15.9 22.3 33.5

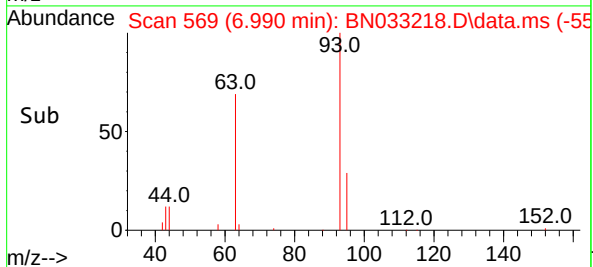
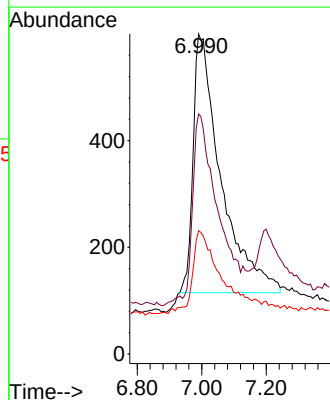
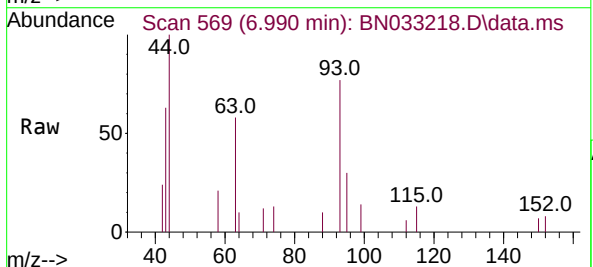
Manual Integrations
APPROVED

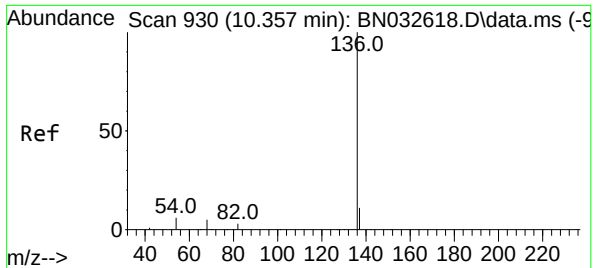
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.435 ng
RT: 6.990 min Scan# 569
Delta R.T. -0.022 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion: 93 Resp: 2887
Ion Ratio Lower Upper
93 100
63 64.0 46.4 69.6
95 26.4 25.5 38.3





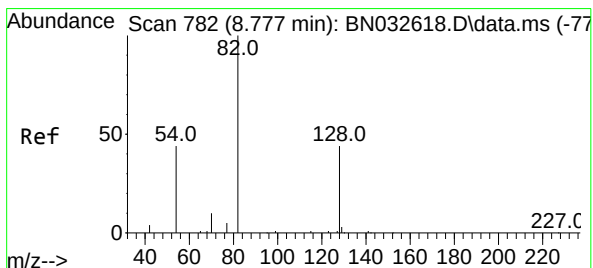
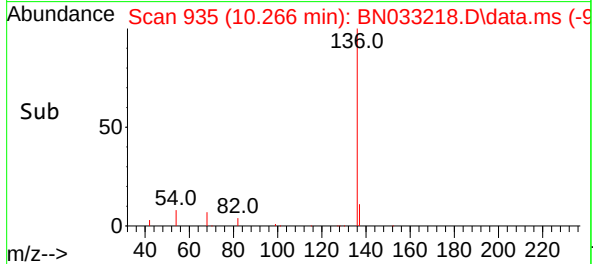
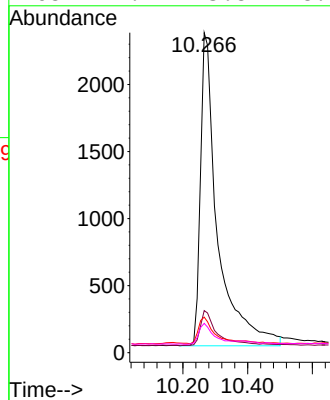
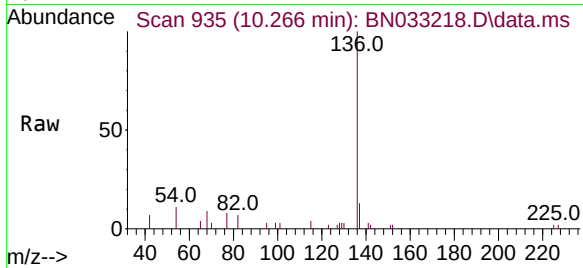
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.266 min Scan# 911
Delta R.T. -0.021 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion:	136	Resp:	861
Ion	Ratio	Lower	Upper
136	100		
137	13.1	9.9	14.9
54	11.1	6.5	9.7
68	9.1	5.8	8.8

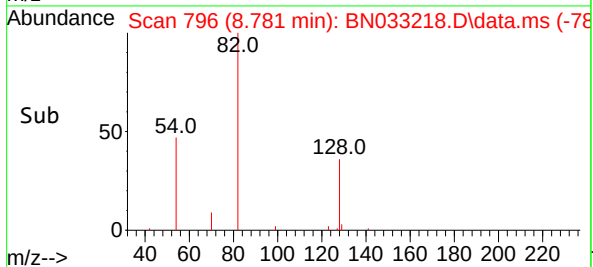
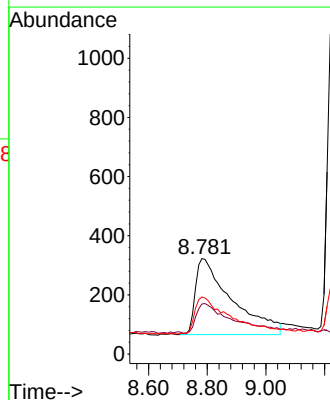
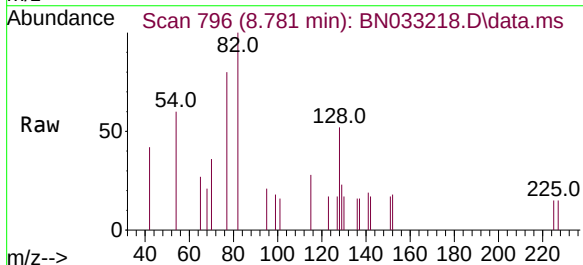
Manual Integrations
APPROVED

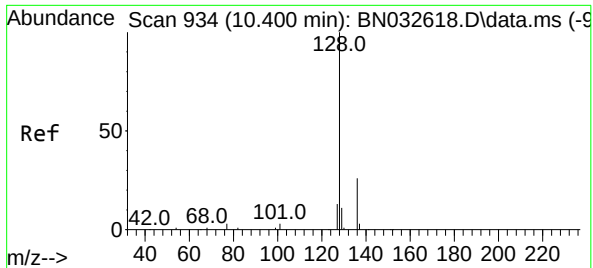
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.032 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:	82	Resp:	2205
Ion	Ratio	Lower	Upper
82	100		
128	52.3	41.7	62.5
54	59.8	39.5	59.3





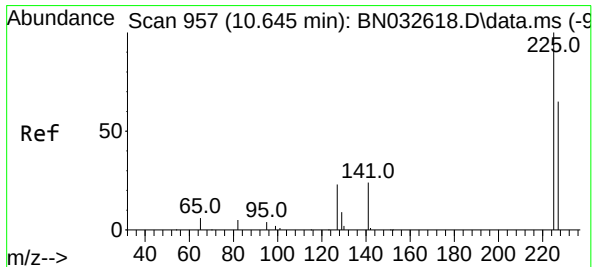
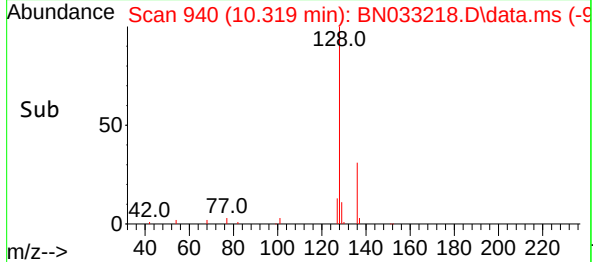
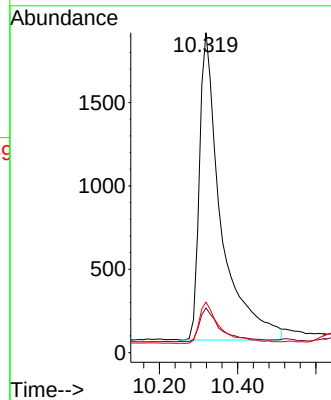
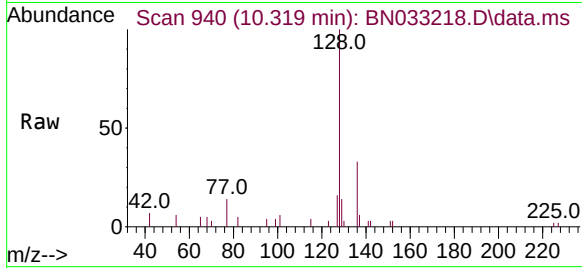
#9
Naphthalene
Concen: 0.296 ng
RT: 10.319 min Scan# 940
Delta R.T. -0.021 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion:128 Resp: 705
Ion Ratio Lower Upper
128 100
129 13.9 9.8 14.8
127 15.8 11.5 17.3

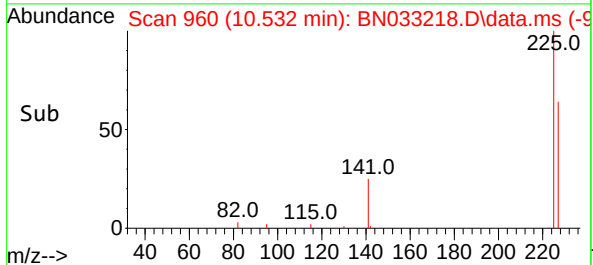
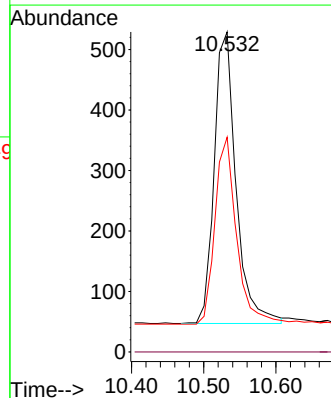
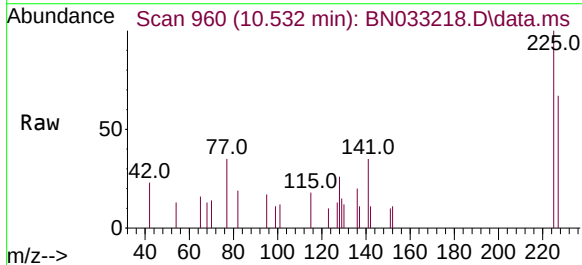
Manual Integrations
APPROVED

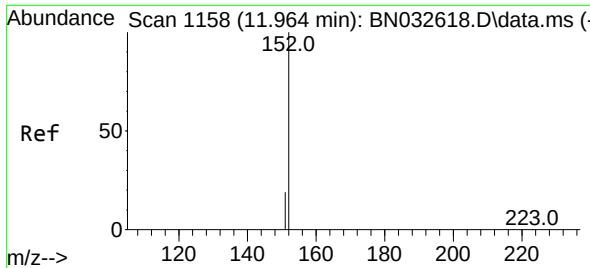
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#10
Hexachlorobutadiene
Concen: 0.222 ng
RT: 10.532 min Scan# 960
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:225 Resp: 1012
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.3 76.9





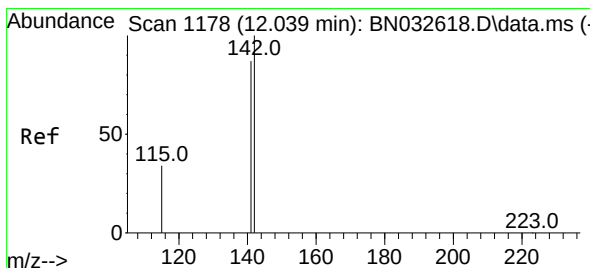
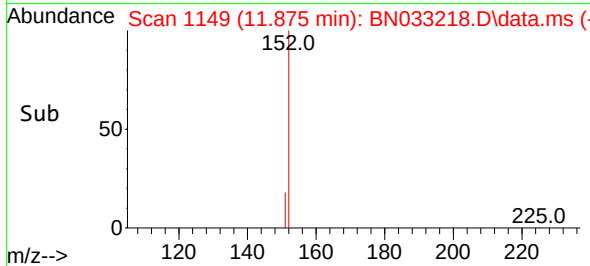
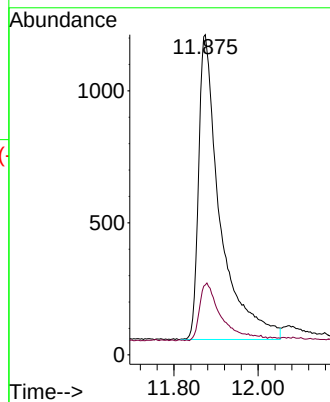
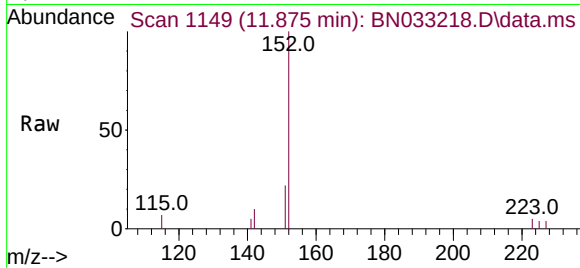
#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 11.875 min Scan# 1158
Delta R.T. -0.026 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion:152 Resp: 4098
Ion Ratio Lower Upper
152 100
151 18.9 16.2 24.2

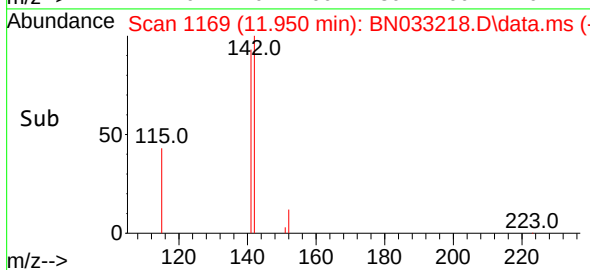
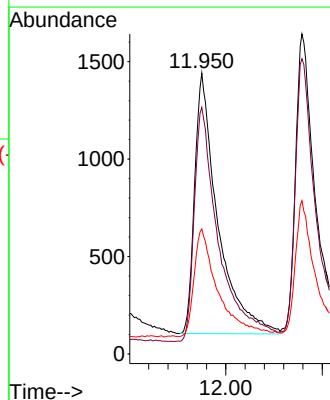
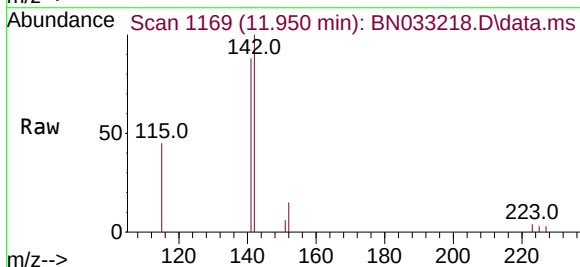
Manual Integrations
APPROVED

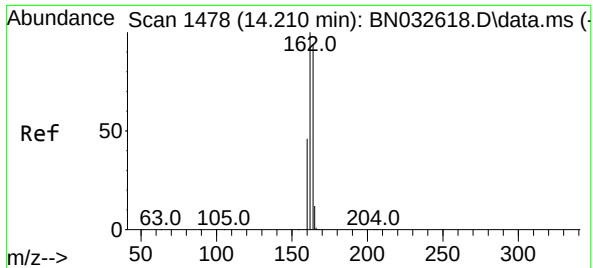
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#12
2-Methylnaphthalene
Concen: 0.286 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.026 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

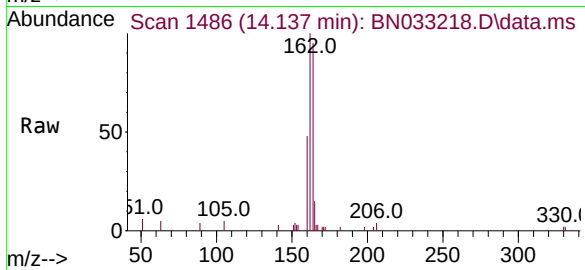
Tgt Ion:142 Resp: 4456
Ion Ratio Lower Upper
142 100
141 87.7 69.3 103.9
115 44.5 29.5 44.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.137 min Scan# 1478
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

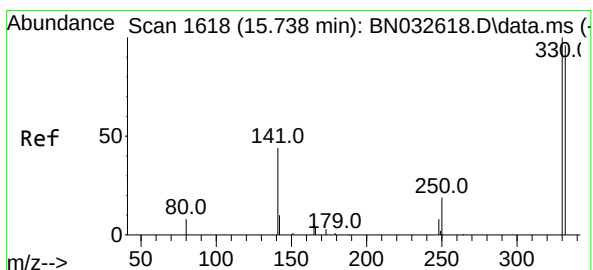
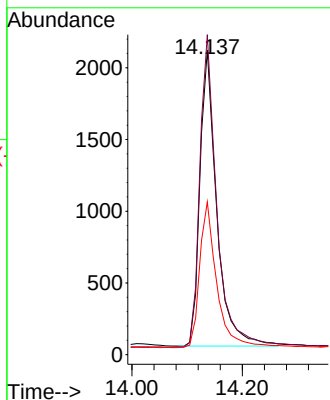
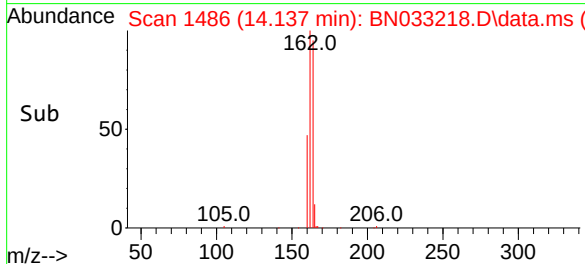
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



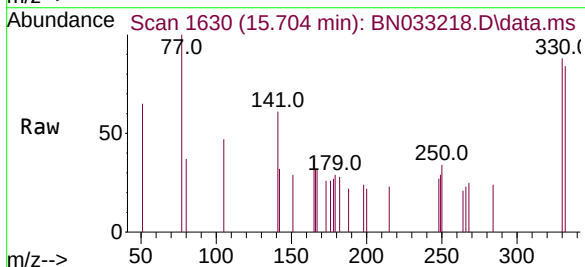
Tgt Ion:164 Resp: 438
Ion Ratio Lower Upper
164 100
162 105.1 85.0 127.4
160 50.2 39.4 59.2

Manual Integrations
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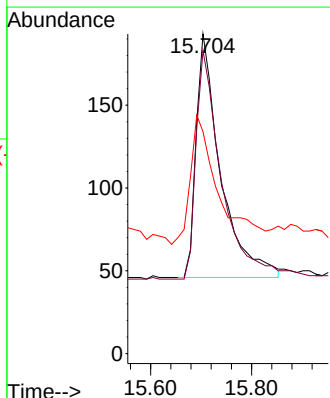
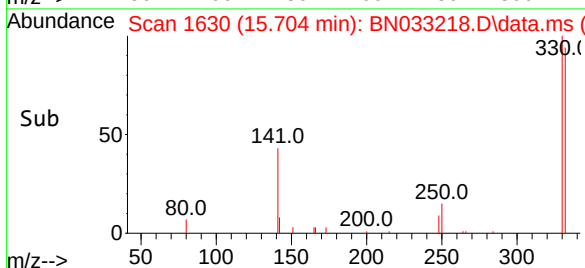
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024

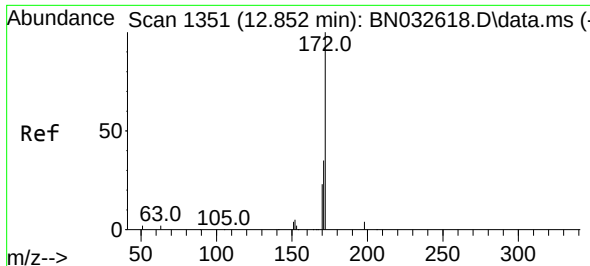


#14
2,4,6-Tribromophenol
Concen: 0.263 ng
RT: 15.704 min Scan# 1630
Delta R.T. -0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15



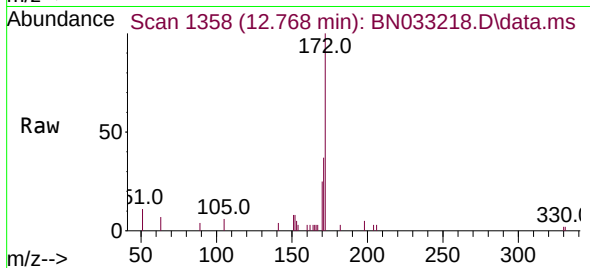
Tgt Ion:330 Resp: 493
Ion Ratio Lower Upper
330 100
332 98.0 77.8 116.8
141 60.9 34.2 51.2#





#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 12.768 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

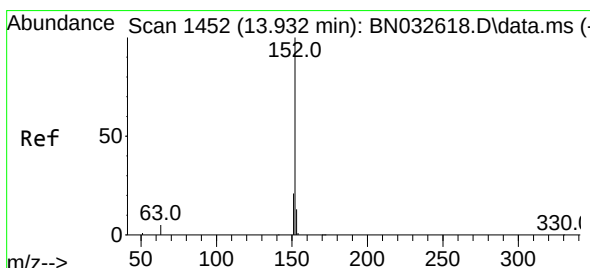
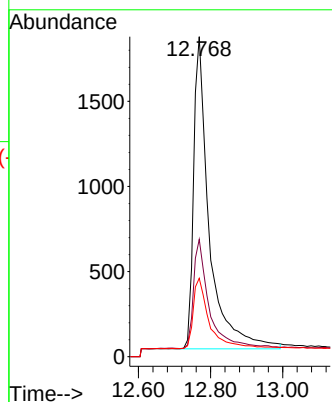
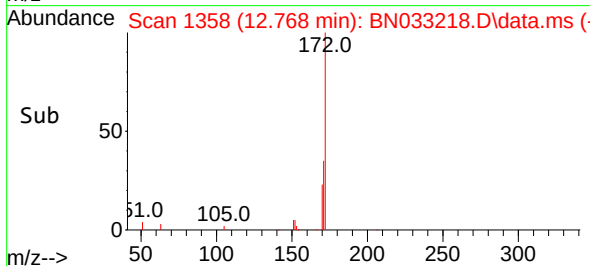
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion:172 Resp: 552
Ion Ratio Lower Upper
172 100
171 36.6 28.6 43.0
170 24.5 19.0 28.6

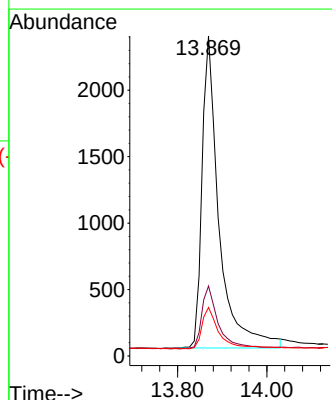
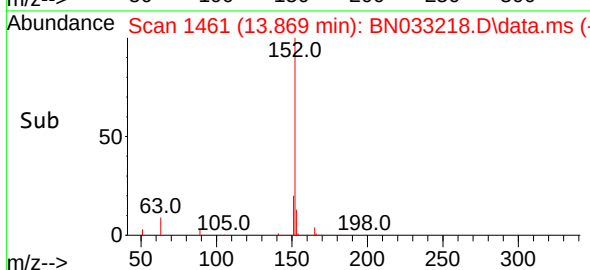
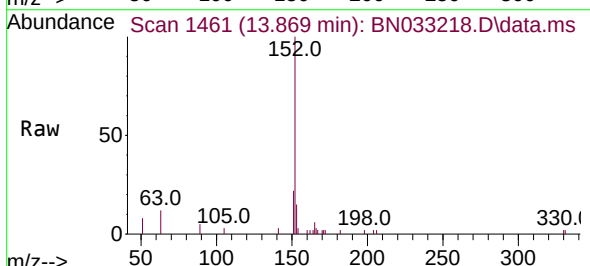
Manual Integrations
APPROVED

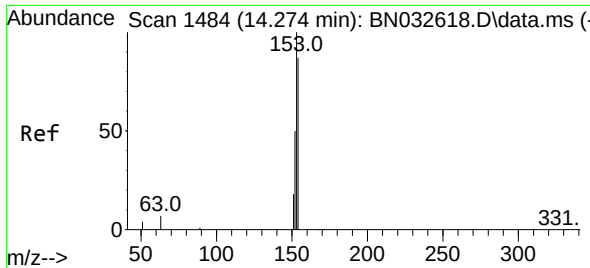
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#16
Acenaphthylene
Concen: 0.348 ng
RT: 13.869 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

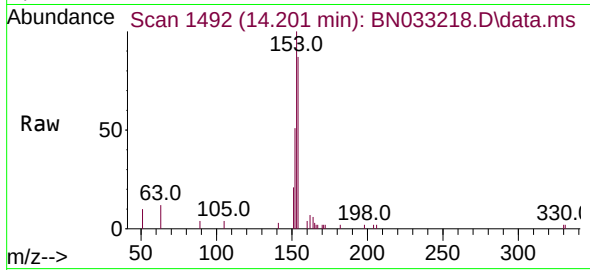
Tgt Ion:152 Resp: 6211
Ion Ratio Lower Upper
152 100
151 19.7 16.0 24.0
153 13.4 10.6 15.8





#17
Acenaphthene
Concen: 0.331 ng
RT: 14.201 min Scan# 1484
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

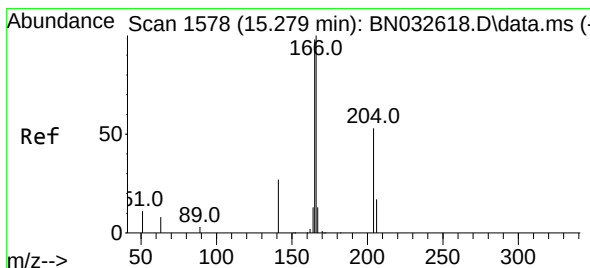
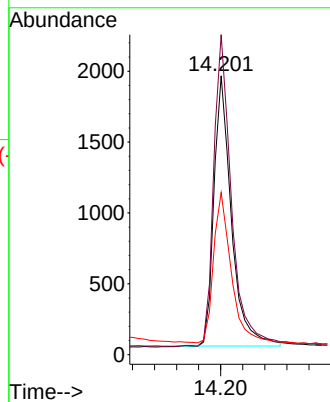
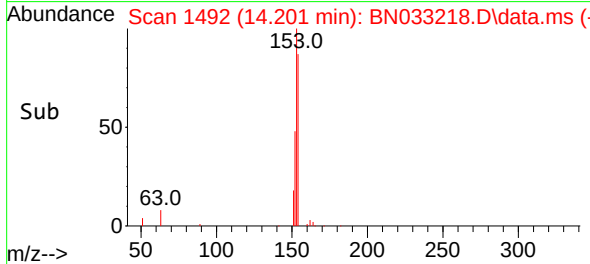
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion:154 Resp: 4189
Ion Ratio Lower Upper
154 100
153 117.3 91.8 137.8
152 56.0 45.2 67.8

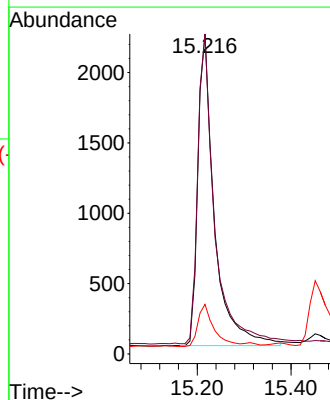
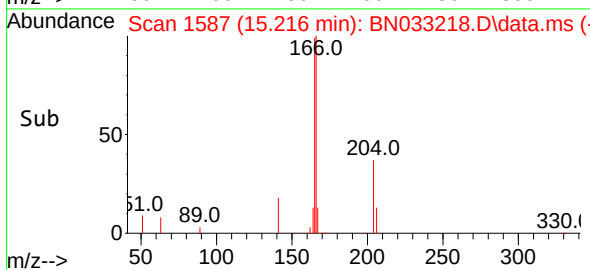
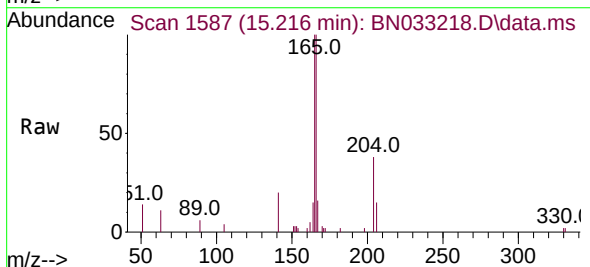
Manual Integrations
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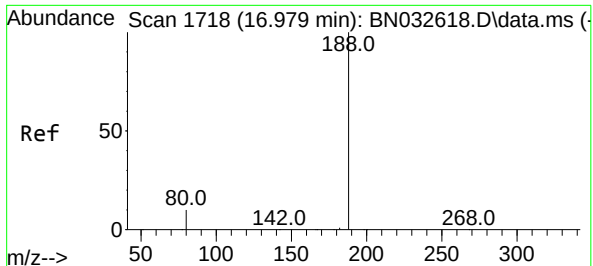
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#18
Fluorene
Concen: 0.322 ng
RT: 15.216 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:166 Resp: 5441
Ion Ratio Lower Upper
166 100
165 100.1 78.0 117.0
167 12.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.920 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MSD

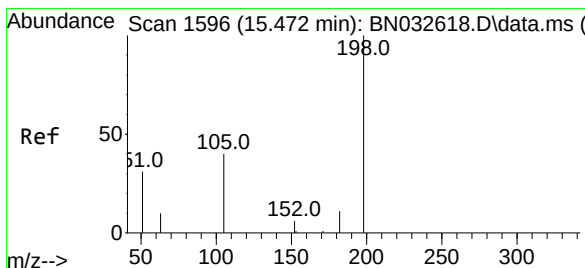
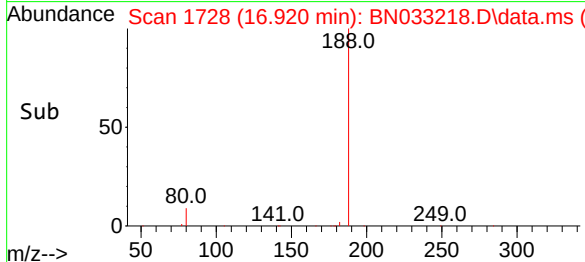
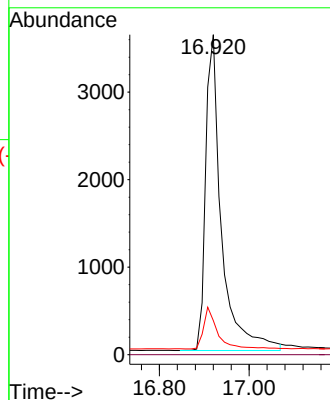
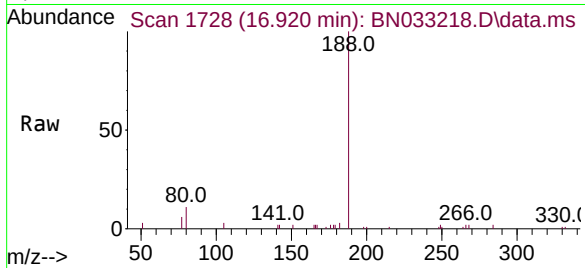
Tgt Ion:	188	Resp:	8770
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	10.6	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.356 ng

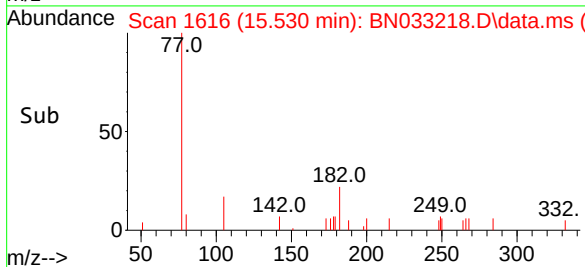
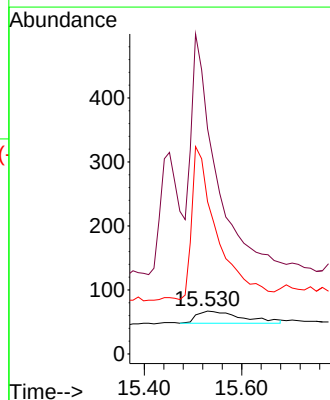
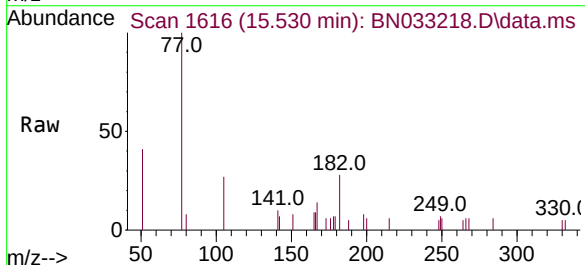
RT: 15.530 min Scan# 1616

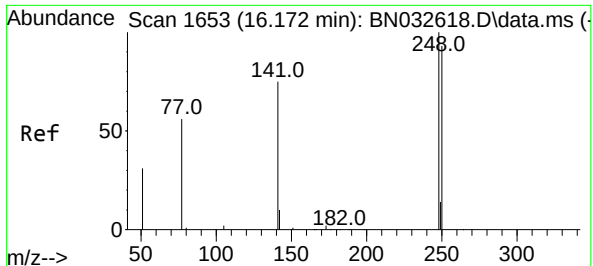
Delta R.T. -0.025 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

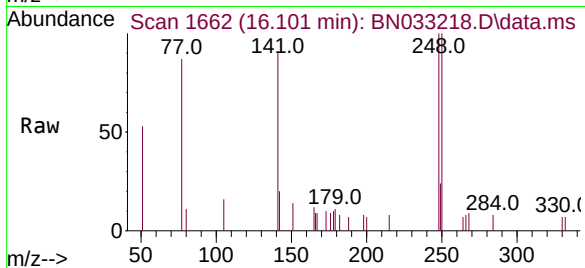
Tgt Ion:	198	Resp:	121
Ion Ratio	Lower	Upper	
198	100		
51	525.4	105.7	158.5#
105	355.2	63.0	94.6#





#21
4-Bromophenyl-phenylether
Concen: 0.310 ng
RT: 16.101 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

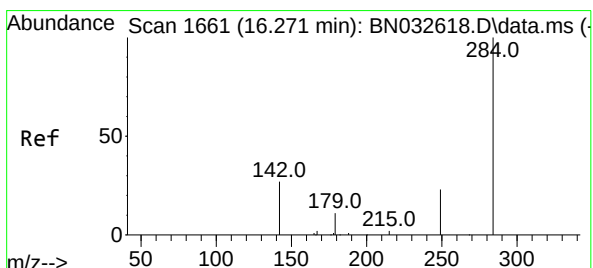
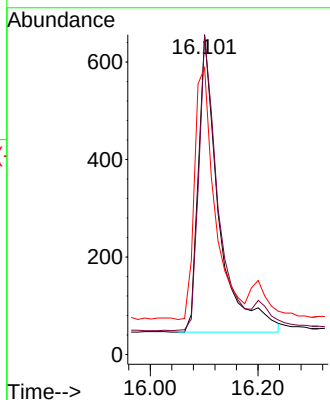
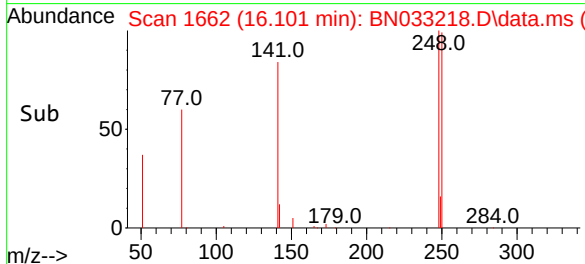
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion:248 Resp: 1600
Ion Ratio Lower Upper
248 100
250 99.5 75.1 112.7
141 89.6 62.0 93.0

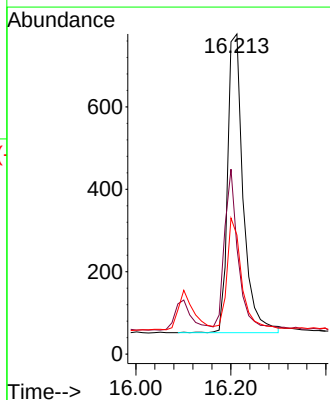
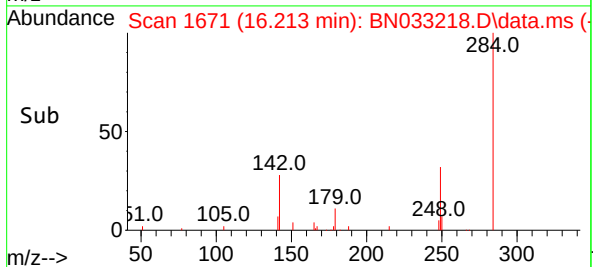
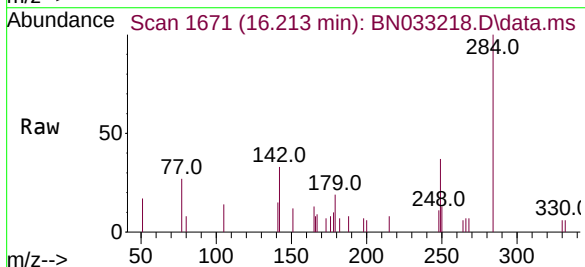
Manual Integrations
APPROVED

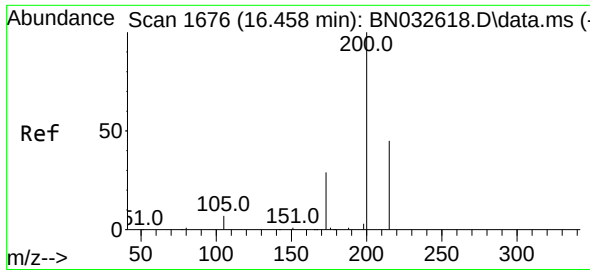
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#22
Hexachlorobenzene
Concen: 0.285 ng
RT: 16.213 min Scan# 1671
Delta R.T. 0.013 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:284 Resp: 1646
Ion Ratio Lower Upper
284 100
142 44.4 29.4 44.0#
249 33.5 24.6 36.8





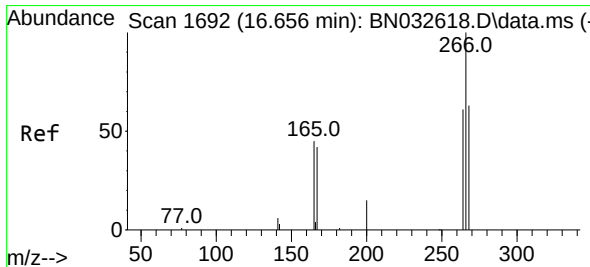
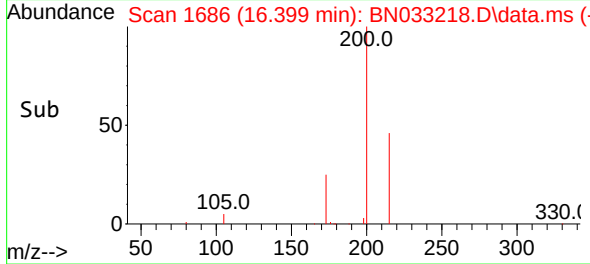
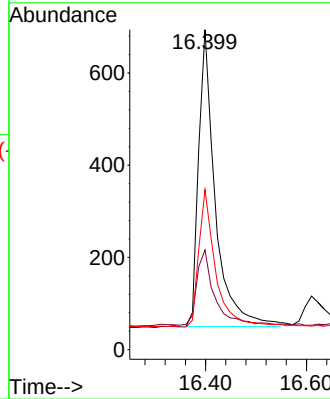
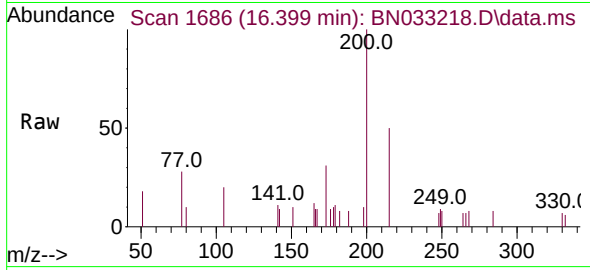
#23
Atrazine
Concen: 0.390 ng
RT: 16.399 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion:200 Resp: 148
Ion Ratio Lower Upper
200 100
173 31.1 25.4 38.2
215 50.0 38.2 57.2

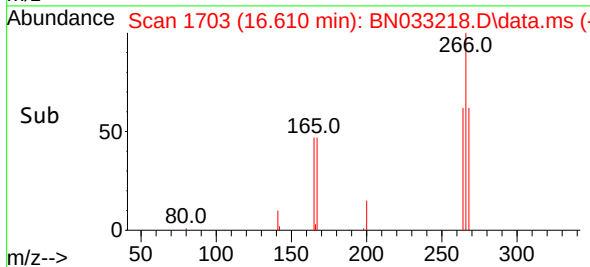
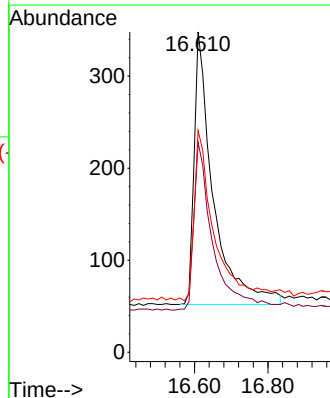
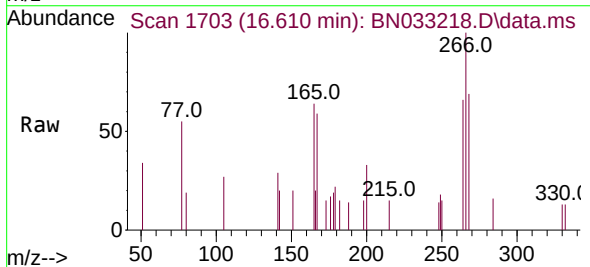
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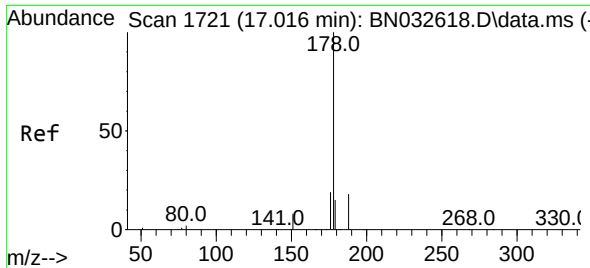
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#24
Pentachlorophenol
Concen: 0.496 ng
RT: 16.610 min Scan# 1703
Delta R.T. -0.025 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:266 Resp: 1065
Ion Ratio Lower Upper
266 100
264 61.8 50.2 75.2
268 64.5 52.8 79.2





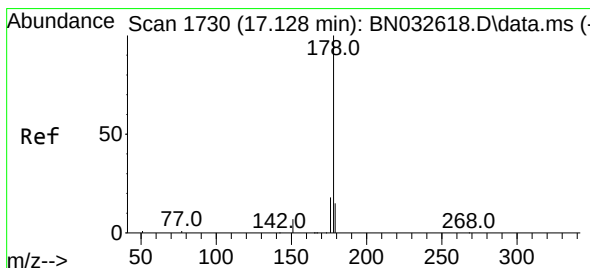
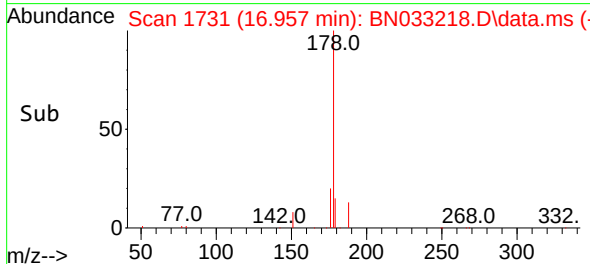
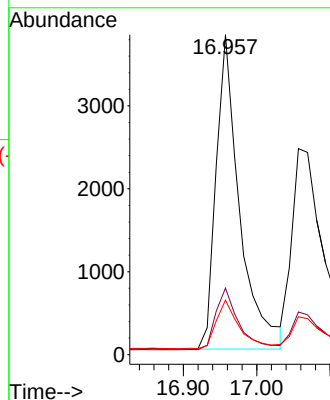
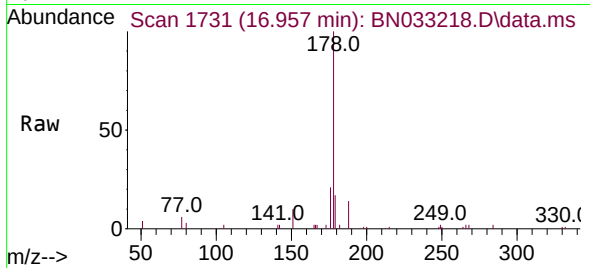
#25
Phenanthrene
Concen: 0.351 ng
RT: 16.957 min Scan# 1739
Delta R.T. -0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD

Tgt Ion:178 Resp: 8419
Ion Ratio Lower Upper
178 100
176 19.6 15.1 22.7
179 15.3 12.2 18.4

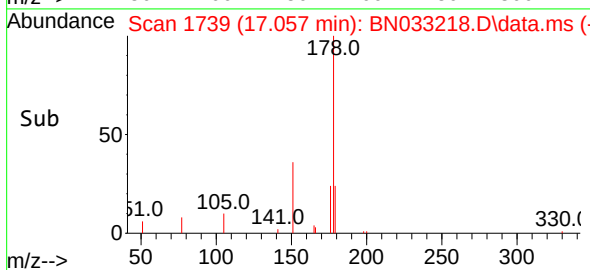
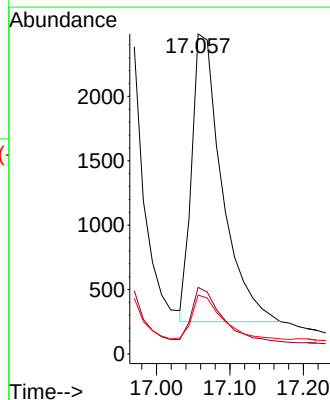
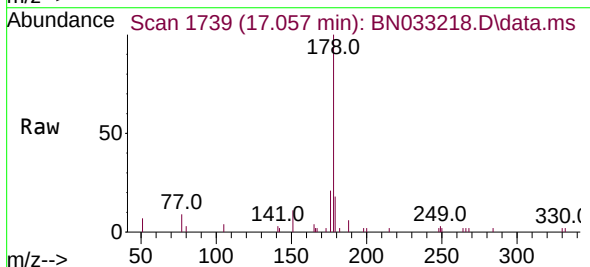
Manual Integrations
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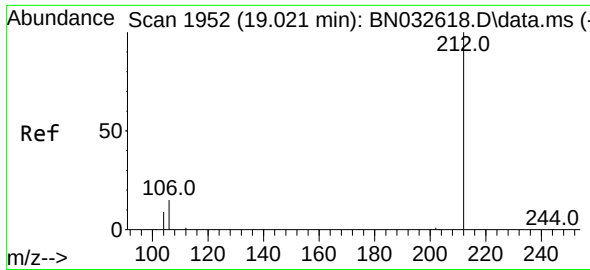
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#26
Anthracene
Concen: 0.324 ng
RT: 17.057 min Scan# 1739
Delta R.T. -0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:178 Resp: 6389
Ion Ratio Lower Upper
178 100
176 18.2 14.8 22.2
179 15.0 11.8 17.8





#27

Fluoranthene-d10

Concen: 0.328 ng

RT: 18.955 min Scan# 1952

Delta R.T. -0.005 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

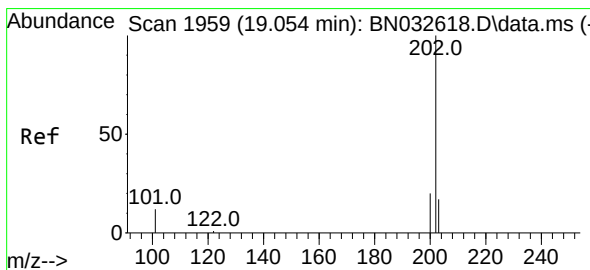
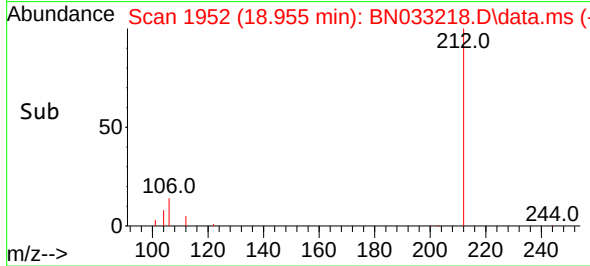
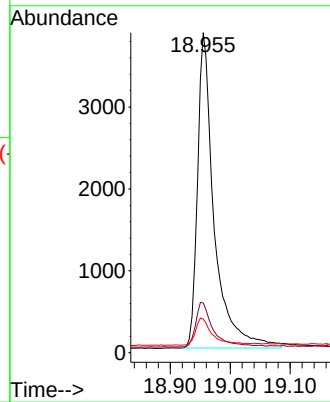
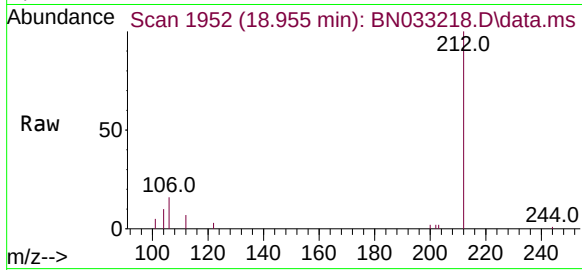
ClientSampleId :

MLS-15-70-85MSD

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.9	17.9
104	8.8	6.9	10.3

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#28

Fluoranthene

Concen: 0.335 ng

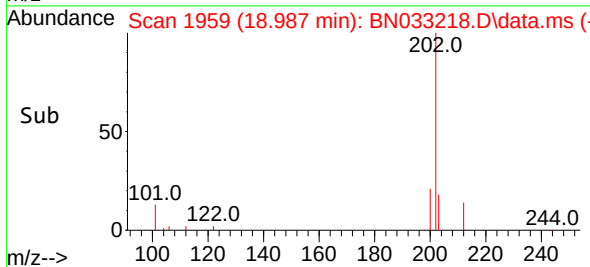
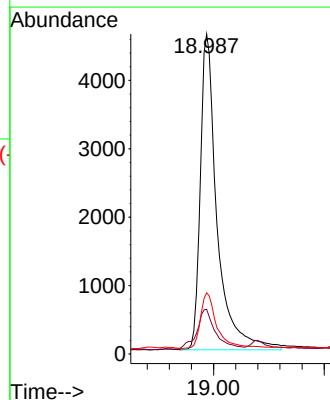
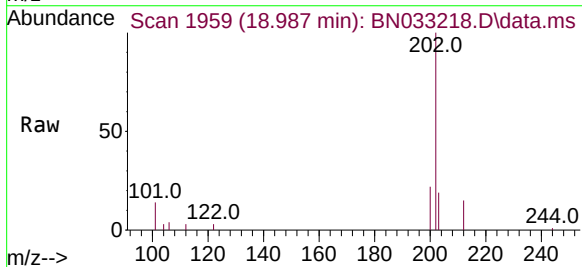
RT: 18.987 min Scan# 1959

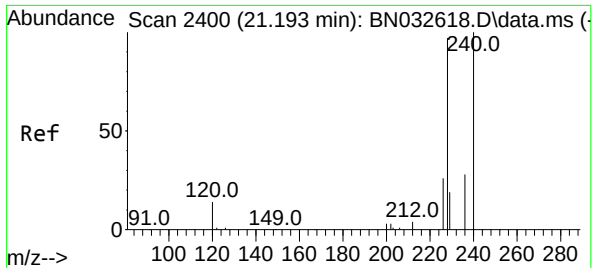
Delta R.T. -0.005 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.0	9.6	14.4
203	17.5	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.134 min Scan# 2400

Delta R.T. 0.000 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

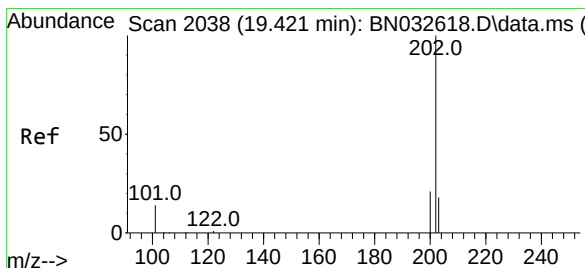
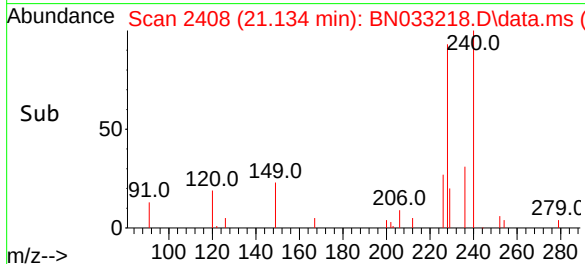
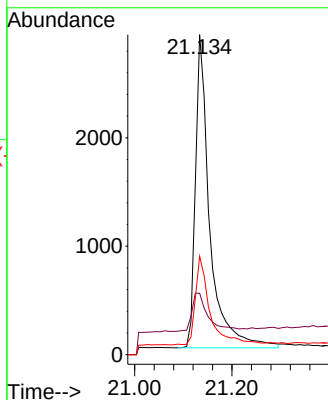
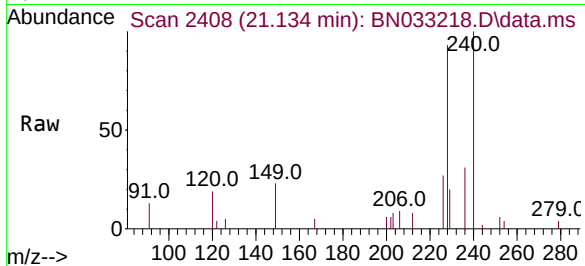
ClientSampleId :

MLS-15-70-85MSD

Tgt Ion:	240	Resp:	5889
Ion Ratio	Lower	Upper	
240	100		
120	19.2	14.8	22.2
236	30.8	23.3	34.9

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#30

Pyrene

Concen: 0.405 ng

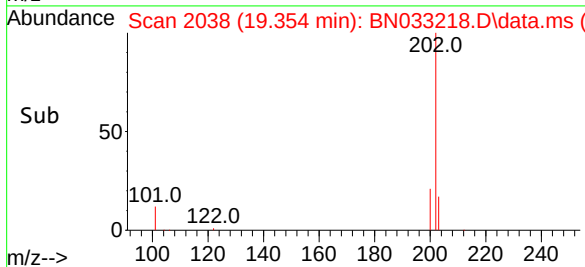
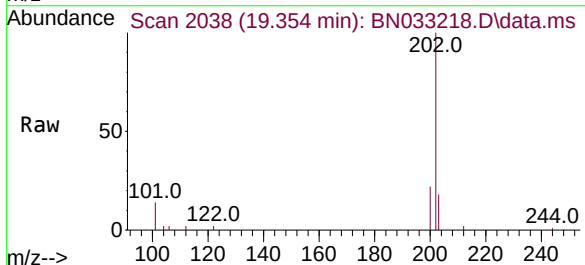
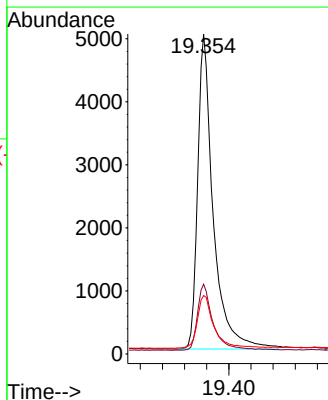
RT: 19.354 min Scan# 2038

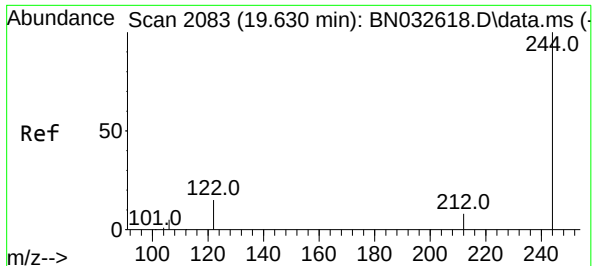
Delta R.T. -0.005 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Tgt Ion:	202	Resp:	9743
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.6	25.0
203	18.0	14.8	22.2





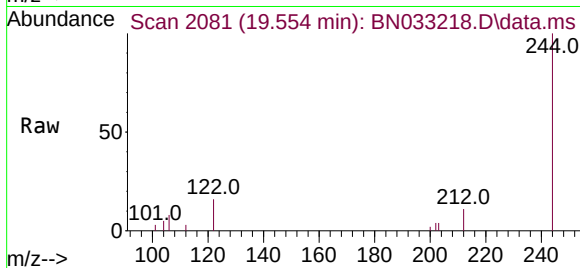
#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.554 min Scan# 2081
Delta R.T. -0.009 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

ClientSampleId :

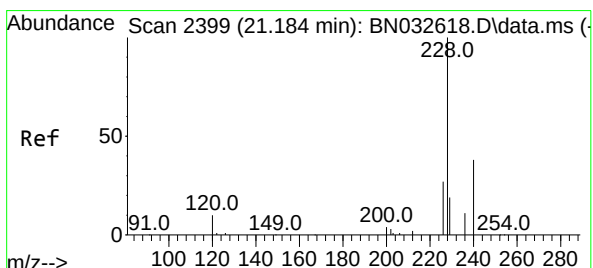
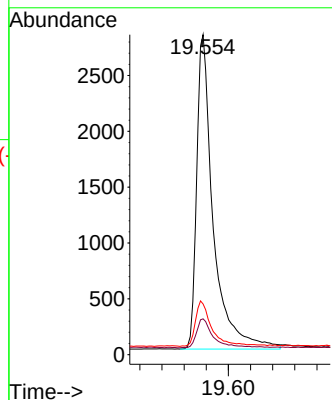
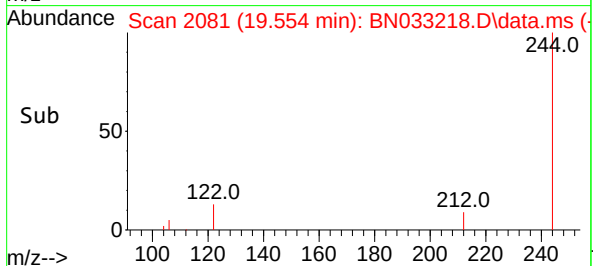
MLS-15-70-85MSD



Tgt Ion:244 Resp: 586
Ion Ratio Lower Upper
244 100
212 11.2 7.5 11.3
122 15.8 12.6 19.0

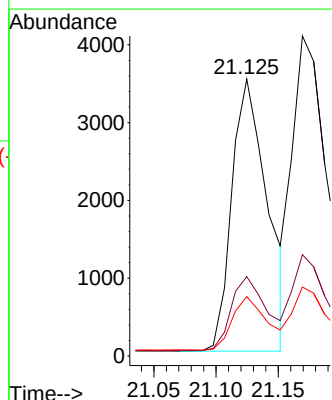
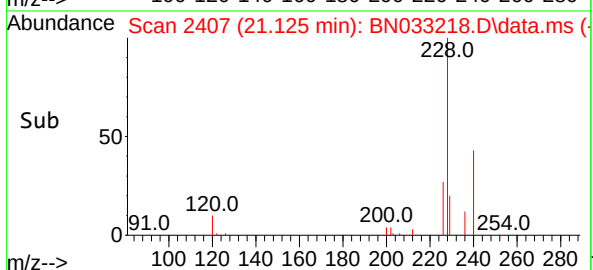
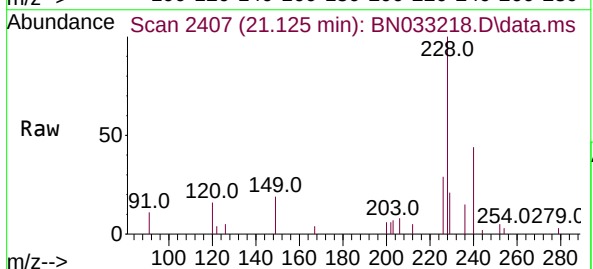
Manual Integrations
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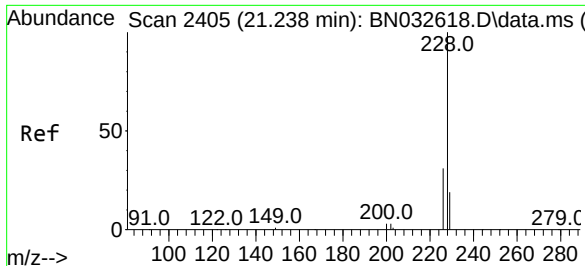
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

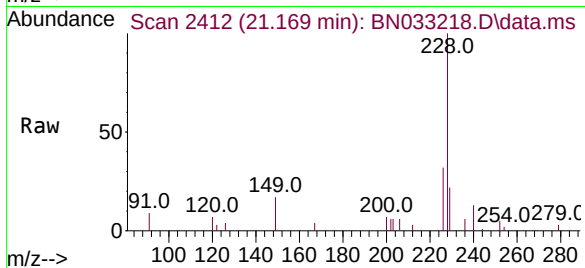
Tgt Ion:228 Resp: 6929
Ion Ratio Lower Upper
228 100
226 28.7 21.8 32.6
229 21.4 16.0 24.0





#33
Chrysene
Concen: 0.402 ng
RT: 21.169 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

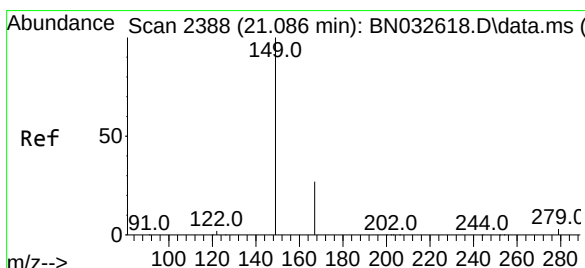
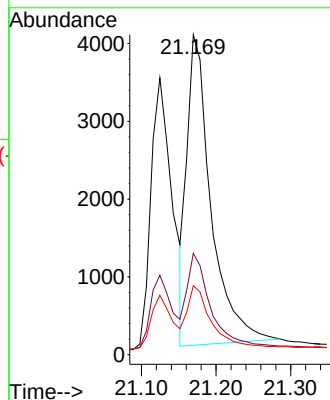
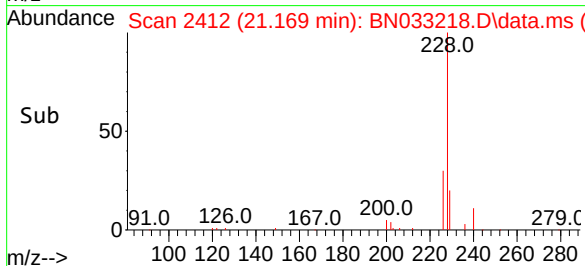
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



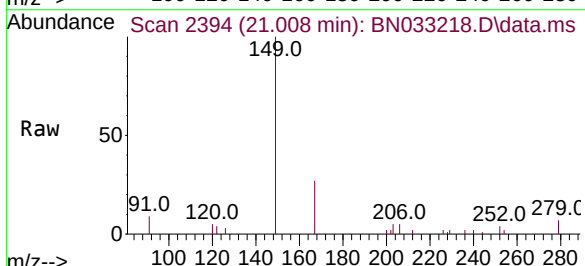
Tgt Ion: 228 Resp: 890
Ion Ratio Lower Upper
228 100
226 31.7 24.2 36.2
229 21.5 16.0 24.0

Manual Integrations
APPROVED

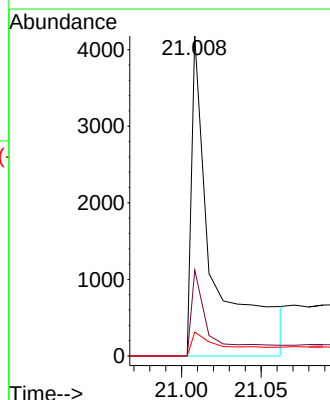
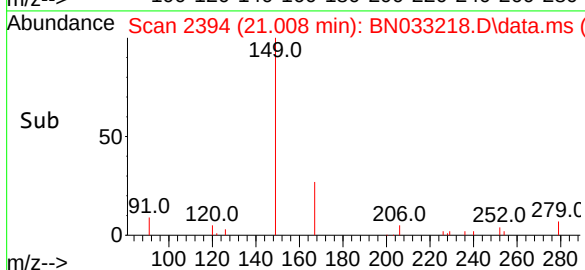
Reviewed By : Yogesh Patel 08/05/2024
Supervised By : mohammad ahmed 08/07/2024

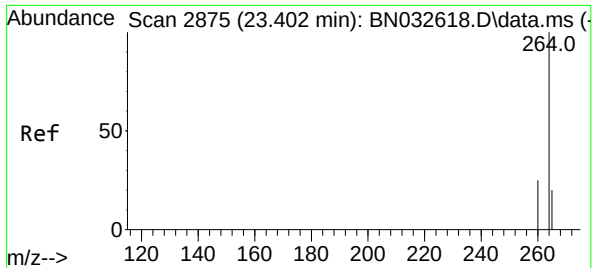


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.395 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.000 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15



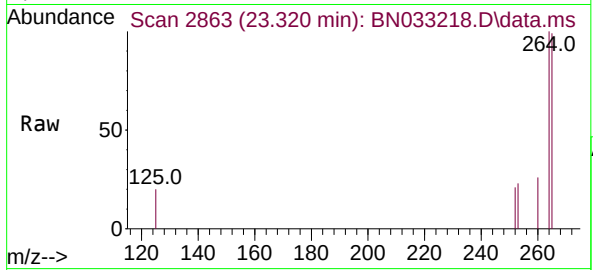
Tgt Ion: 149 Resp: 4068
Ion Ratio Lower Upper
149 100
167 24.7 21.4 32.2
279 11.1 2.8 4.2#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.320 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

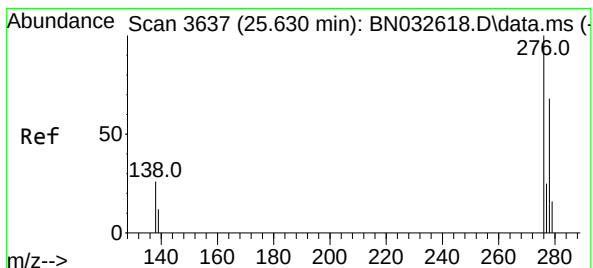
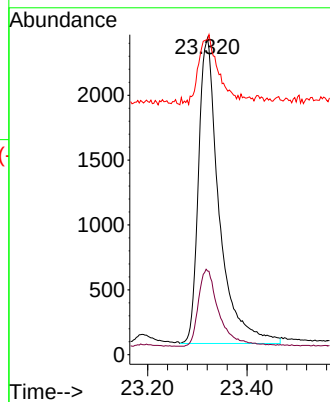
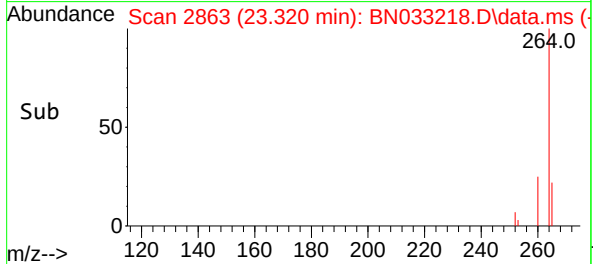
Instrument :
BNA_N
ClientSampleId :
MLS-15-70-85MSD



Tgt Ion:264 Resp: 6810
Ion Ratio Lower Upper
264 100
260 26.4 20.9 31.3
265 99.4 85.4 128.2

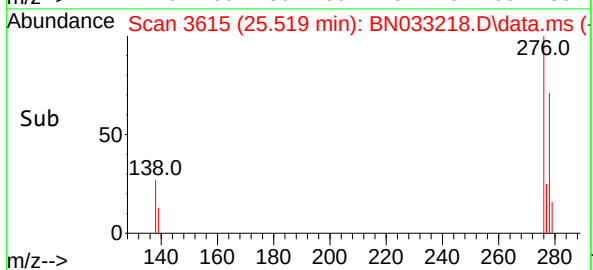
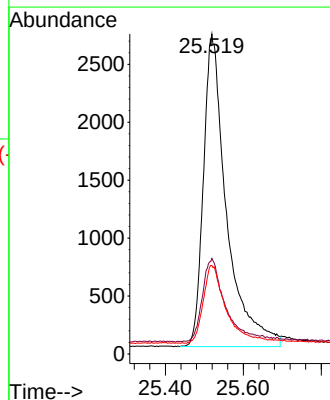
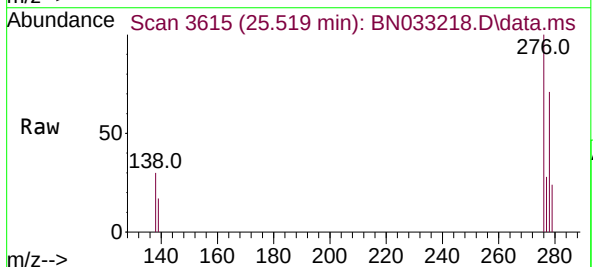
Manual Integrations
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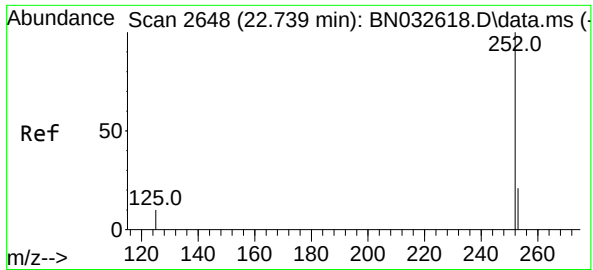
Reviewed By :Yogesh Patel 08/05/2024
Supervised By :mohammad ahmed 08/07/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.414 ng
RT: 25.519 min Scan# 3615
Delta R.T. 0.012 min
Lab File: BN033218.D
Acq: 03 Aug 2024 01:15

Tgt Ion:276 Resp: 11113
Ion Ratio Lower Upper
276 100
138 25.9 21.0 31.4
277 23.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.333 ng

RT: 22.666 min Scan# 2639

Delta R.T. 0.006 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MSD

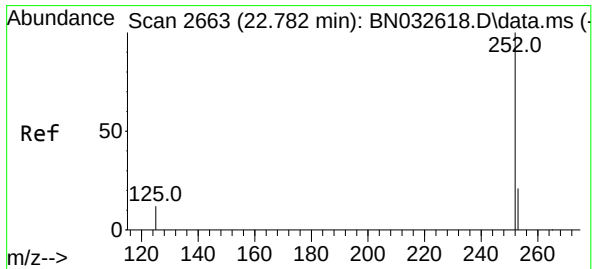
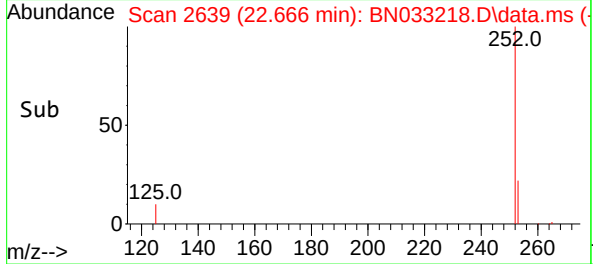
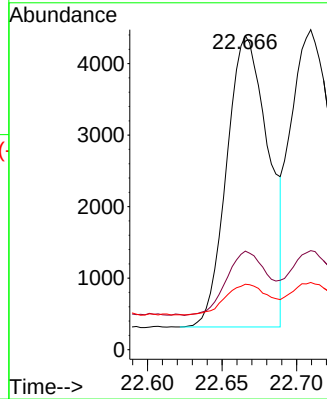
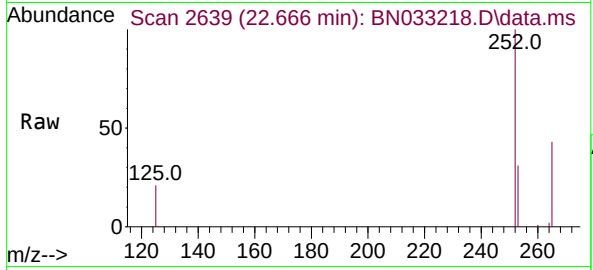
Tgt Ion:252	Resp:	7900
Ion Ratio	Lower	Upper
252	100	
253	31.4	22.3 33.5
125	20.9	15.4 23.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#38

Benzo(k)fluoranthene

Concen: 0.367 ng

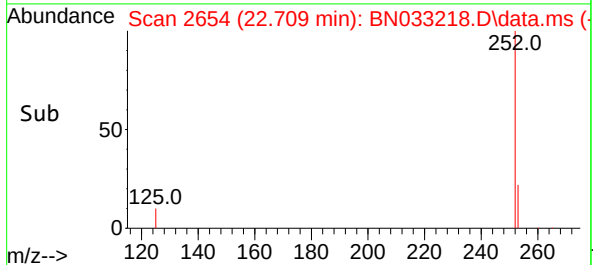
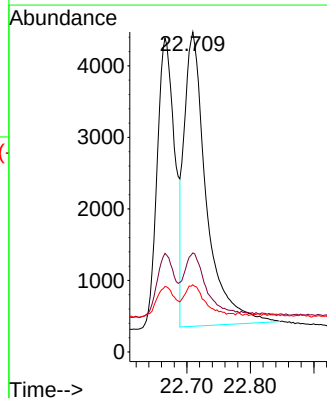
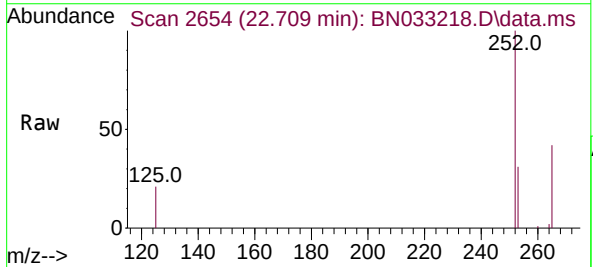
RT: 22.709 min Scan# 2654

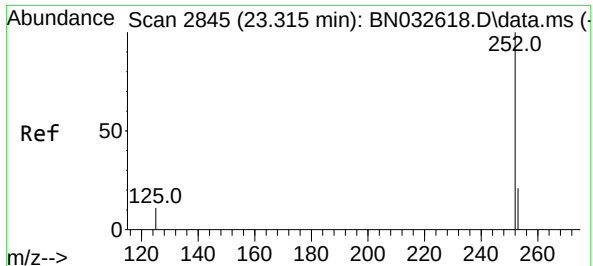
Delta R.T. 0.006 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Tgt Ion:252	Resp:	9938
Ion Ratio	Lower	Upper
252	100	
253	31.0	22.6 34.0
125	21.0	16.2 24.4





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.233 min Scan# 2833

Delta R.T. 0.009 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

ClientSampleId :

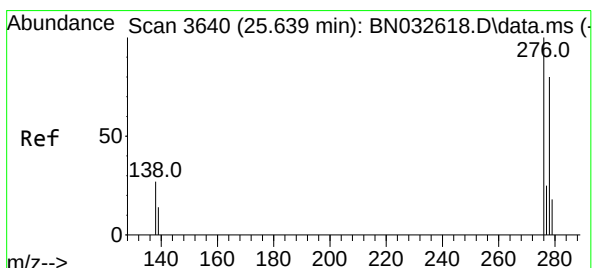
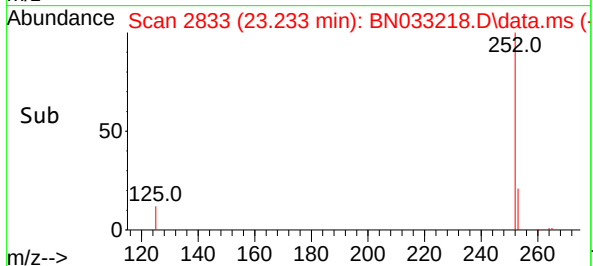
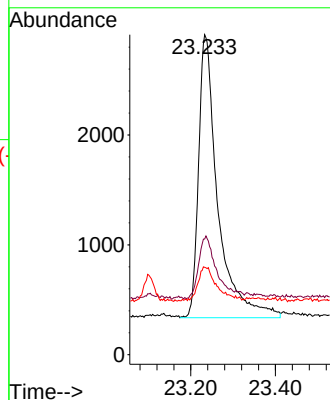
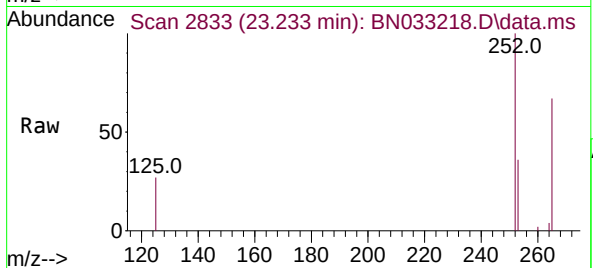
MLS-15-70-85MSD

Tgt Ion:	252	Resp:	811
Ion Ratio	Lower	Upper	
252	100		
253	36.2	25.8	38.8
125	27.3	21.4	32.2

Manual Integrations
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Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.412 ng

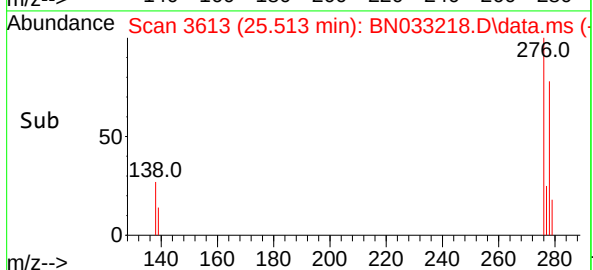
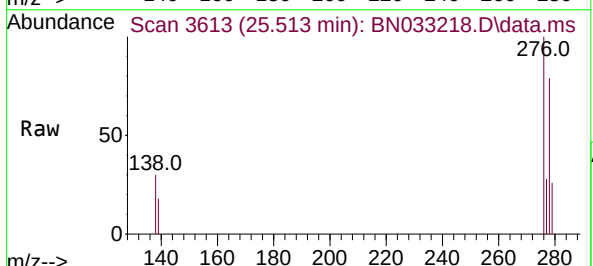
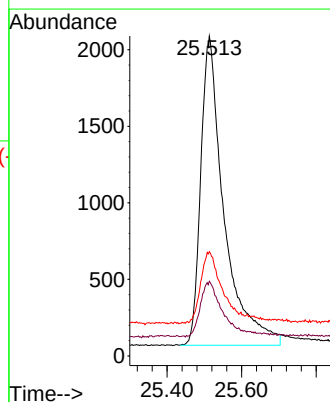
RT: 25.513 min Scan# 3613

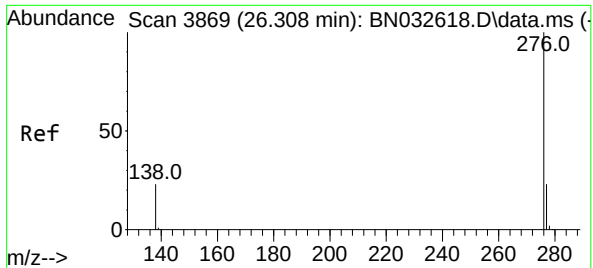
Delta R.T. 0.006 min

Lab File: BN033218.D

Acq: 03 Aug 2024 01:15

Tgt Ion:	278	Resp:	8727
Ion Ratio	Lower	Upper	
278	100		
139	23.3	16.7	25.1
279	32.6	24.3	36.5





#41

Benzo(g,h,i)perylene

Concen: 0.372 ng

RT: 26.189 min Scan# 3844

Delta R.T. 0.012 min

Lab File: BN033218.D

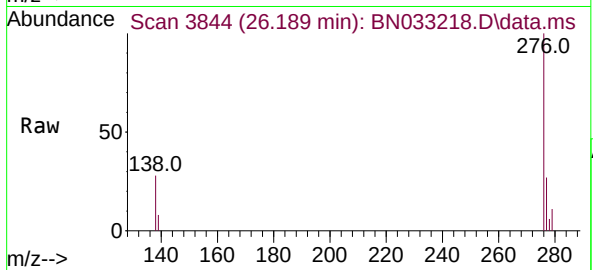
Acq: 03 Aug 2024 01:15

Instrument :

BNA_N

ClientSampleId :

MLS-15-70-85MSD



Tgt Ion:276 Resp: 8730

Ion Ratio Lower Upper

276 100

277 27.5 20.2 30.2

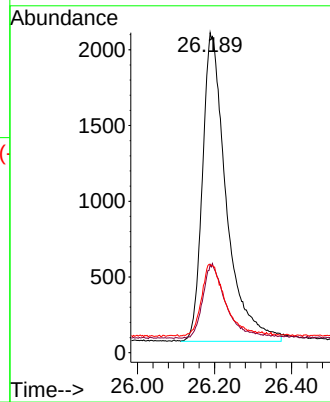
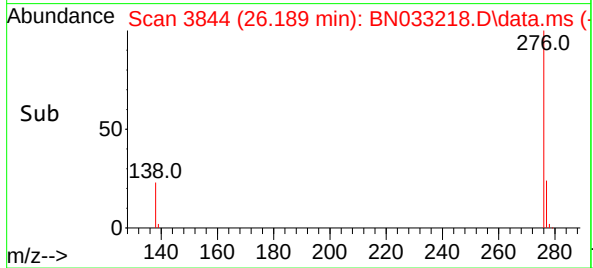
138 27.6 20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/05/2024

Supervised By :mohammad ahmed 08/07/2024



Manual Integration Report

Sequence:	BN071124	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN032616.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:35 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC0.2	BN032617.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:37 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICCC0.4	BN032618.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:59 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC0.8	BN032619.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:40 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC1.6	BN032620.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:41 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC3.2	BN032621.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:42 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC3.2	BN032621.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:42 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICC5.0	BN032622.D	4,6-Dinitro-2-methylphenol	yogesh	7/11/2024 4:19:45 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly
SSTDICV0.4	BN032623.D	Benzo(k)fluoranthene	yogesh	7/11/2024 4:19:46 AM	mohammad	7/11/2024 5:19:17 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN033212.D	2-Fluorophenol	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Anthracene	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Benzo(b)fluoranthene	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	bis(2-Chloroethyl)ether	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033212.D	Phenol-d6	yogesh	8/5/2024 2:03:31 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	1,4-Dichlorobenzene-d4	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	2,4,6-Tribromophenol	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	2-Fluorobiphenyl	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	2-Fluorophenol	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	2-Methylnaphthalene-d10	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	Acenaphthene-d10	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	Naphthalene-d8	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	Nitrobenzene-d5	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB162424BL	BN033213.D	Phenanthrene-d10	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BL	BN033213.D	Phenol-d6	yogesh	8/5/2024 2:03:32 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BS	BN033214.D	2-Fluorophenol	yogesh	8/5/2024 2:03:36 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BS	BN033214.D	Anthracene	yogesh	8/5/2024 2:03:36 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BS	BN033214.D	bis(2-Chloroethyl)ether	yogesh	8/5/2024 2:03:36 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BS	BN033214.D	Chrysene	yogesh	8/5/2024 2:03:36 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
PB162424BS	BN033214.D	Phenol-d6	yogesh	8/5/2024 2:03:36 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3415-04MS	BN033217.D	Phenol-d6	yogesh	8/5/2024 2:03:40 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3415-05MSD	BN033218.D	Phenol-d6	yogesh	8/5/2024 2:03:41 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-01	BN033222.D	1,4-Dichlorobenzene-d4	yogesh	8/5/2024 2:03:48 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-01	BN033222.D	Nitrobenzene-d5	yogesh	8/5/2024 2:03:48 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-01	BN033222.D	Phenol-d6	yogesh	8/5/2024 2:03:48 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-02	BN033223.D	2-Fluorophenol	yogesh	8/5/2024 2:03:49 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly

Manual Integration Report

Sequence:	BN080324	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P3426-02	BN033223.D	Phenol-d6	yogesh	8/5/2024 2:03:49 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Anthracene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Benzo(a)anthracene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
SSTDCCC0.4	BN033228.D	Benzo(b)fluoranthene	Jagrut	8/5/2024 10:42:03 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-02RE	BN033237.D	2-Fluorophenol	Jagrut	8/5/2024 10:42:25 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-02RE	BN033237.D	Nitrobenzene-d5	Jagrut	8/5/2024 10:42:25 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly
P3426-02RE	BN033237.D	Phenol-d6	Jagrut	8/5/2024 10:42:25 AM	mohammad	8/7/2024 2:40:34 AM	Peak Integrated by Software incorrectly

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN071124

Review By	yogesh	Review On	7/11/2024 4:20:04 AM
Supervise By	mohammad	Supervise On	7/11/2024 5:19:17 AM
SubDirectory	BN071124	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6542		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6441		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN032615.D	10 Jul 2024 15:03	MA/JU	Ok
2	SSTDICC0.1	BN032616.D	10 Jul 2024 15:54	MA/JU	Ok,M
3	SSTDICC0.2	BN032617.D	10 Jul 2024 16:30	MA/JU	Ok,M
4	SSTDICCC0.4	BN032618.D	10 Jul 2024 17:07	MA/JU	Ok,M
5	SSTDICC0.8	BN032619.D	10 Jul 2024 17:43	MA/JU	Ok,M
6	SSTDICC1.6	BN032620.D	10 Jul 2024 18:19	MA/JU	Ok,M
7	SSTDICC3.2	BN032621.D	10 Jul 2024 18:56	MA/JU	Ok,M
8	SSTDICC5.0	BN032622.D	10 Jul 2024 19:32	MA/JU	Ok,M
9	SSTDICV0.4	BN032623.D	10 Jul 2024 20:44	MA/JU	Ok,M
10	PB161896BL	BN032624.D	10 Jul 2024 21:21	MA/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN033211.D	02 Aug 2024 20:20	MA/JU	Ok
2	SSTDCCC0.4	BN033212.D	02 Aug 2024 20:59	MA/JU	Ok,M
3	PB162424BL	BN033213.D	02 Aug 2024 22:12	MA/JU	Ok,M
4	PB162424BS	BN033214.D	02 Aug 2024 22:48	MA/JU	Ok,M
5	P3410-01	BN033215.D	02 Aug 2024 23:25	MA/JU	Dilution
6	P3415-03	BN033216.D	03 Aug 2024 00:02	MA/JU	Ok,M
7	P3415-04MS	BN033217.D	03 Aug 2024 00:38	MA/JU	Ok,M
8	P3415-05MSD	BN033218.D	03 Aug 2024 01:15	MA/JU	Ok,M
9	P3416-01	BN033219.D	03 Aug 2024 01:51	MA/JU	Ok,M
10	P3416-02	BN033220.D	03 Aug 2024 02:27	MA/JU	Ok,M
11	P3416-03	BN033221.D	03 Aug 2024 03:03	MA/JU	Ok,M
12	P3426-01	BN033222.D	03 Aug 2024 03:39	MA/JU	Ok,M
13	P3426-02	BN033223.D	03 Aug 2024 04:15	MA/JU	ReRun
14	P3429-01	BN033224.D	03 Aug 2024 04:52	MA/JU	Ok,M
15	P3429-02	BN033225.D	03 Aug 2024 05:28	MA/JU	Ok,M
16	P3429-03	BN033226.D	03 Aug 2024 06:04	MA/JU	Ok,M
17	DFTPP	BN033227.D	03 Aug 2024 07:20	MA/JU	Ok
18	SSTDCCC0.4	BN033228.D	03 Aug 2024 07:59	MA/JU	Ok,M
19	PB162464BL	BN033229.D	03 Aug 2024 09:11	MA/JU	Ok,M
20	PB162464BS	BN033230.D	03 Aug 2024 09:47	MA/JU	Ok,M
21	P3440-01	BN033231.D	03 Aug 2024 10:24	MA/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	P3440-02MS	BN033232.D	03 Aug 2024 11:00	MA/JU	Ok,M
23	P3440-03MSD	BN033233.D	03 Aug 2024 11:36	MA/JU	Ok,M
24	P3440-04	BN033234.D	03 Aug 2024 12:12	MA/JU	Ok,M
25	P3451-01	BN033235.D	03 Aug 2024 12:48	MA/JU	Ok,M
26	P3410-01DL	BN033236.D	03 Aug 2024 13:24	MA/JU	Ok,M
27	P3426-02RE	BN033237.D	03 Aug 2024 14:00	MA/JU	Confirms
28	SP6586	BN033238.D	03 Aug 2024 14:36	MA/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN071124

Review By	yogesh	Review On	7/11/2024 4:20:04 AM
Supervise By	mohammad	Supervise On	7/11/2024 5:19:17 AM
SubDirectory	BN071124	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124

STD. NAME	STD REF.#
Tune/Reschk	SP6542
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563
CCC	SP6567
Internal Standard/PEM	SP6441
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN032615.D	10 Jul 2024 15:03		MA/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN032616.D	10 Jul 2024 15:54	Compound #20 removed from 0.1ppm	MA/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN032617.D	10 Jul 2024 16:30	Compound #20 Kept on LR	MA/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN032618.D	10 Jul 2024 17:07	Calibration is Good For DOD except Com#20	MA/JU	Ok,M
5	SSTDICC0.8	SSTDICC0.8	BN032619.D	10 Jul 2024 17:43	Com#20 failed for %RE in calibration	MA/JU	Ok,M
6	SSTDICC1.6	SSTDICC1.6	BN032620.D	10 Jul 2024 18:19		MA/JU	Ok,M
7	SSTDICC3.2	SSTDICC3.2	BN032621.D	10 Jul 2024 18:56		MA/JU	Ok,M
8	SSTDICC5.0	SSTDICC5.0	BN032622.D	10 Jul 2024 19:32		MA/JU	Ok,M
9	SSTDICV0.4	ICVBN071124	BN032623.D	10 Jul 2024 20:44		MA/JU	Ok,M
10	PB161896BL	PB161896BL	BN032624.D	10 Jul 2024 21:21	Analyzed for contamination check	MA/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563
CCC	SP6567
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN033211.D	02 Aug 2024 20:20		MA/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN033212.D	02 Aug 2024 20:59		MA/JU	Ok,M
3	PB162424BL	PB162424BL	BN033213.D	02 Aug 2024 22:12		MA/JU	Ok,M
4	PB162424BS	PB162424BS	BN033214.D	02 Aug 2024 22:48		MA/JU	Ok,M
5	P3410-01	GW-S-864-9-14-07302	BN033215.D	02 Aug 2024 23:25	Need 5X Dilution	MA/JU	Dilution
6	P3415-03	MLS-15-70-85	BN033216.D	03 Aug 2024 00:02		MA/JU	Ok,M
7	P3415-04MS	MLS-15-70-85MS	BN033217.D	03 Aug 2024 00:38		MA/JU	Ok,M
8	P3415-05MSD	MLS-15-70-85MSD	BN033218.D	03 Aug 2024 01:15		MA/JU	Ok,M
9	P3416-01	MLS-15-106-121	BN033219.D	03 Aug 2024 01:51		MA/JU	Ok,M
10	P3416-02	MLS-15-135-150	BN033220.D	03 Aug 2024 02:27		MA/JU	Ok,M
11	P3416-03	MLS-15-9999	BN033221.D	03 Aug 2024 03:03		MA/JU	Ok,M
12	P3426-01	927-K1-WS-073124	BN033222.D	03 Aug 2024 03:39		MA/JU	Ok,M
13	P3426-02	927-K1-WS-073124-FD	BN033223.D	03 Aug 2024 04:15	Internal Standard Fail	MA/JU	ReRun
14	P3429-01	926-K1-WS-073124	BN033224.D	03 Aug 2024 04:52		MA/JU	Ok,M
15	P3429-02	931-K1-WS-073124	BN033225.D	03 Aug 2024 05:28		MA/JU	Ok,M
16	P3429-03	925-K1-WS-073124	BN033226.D	03 Aug 2024 06:04		MA/JU	Ok,M
17	DFTPP	DFTPP	BN033227.D	03 Aug 2024 07:20		MA/JU	Ok
18	SSTDCCC0.4	SSTDCCC0.4	BN033228.D	03 Aug 2024 07:59		MA/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN080324

Review By	yogesh	Review On	8/5/2024 2:04:10 AM
Supervise By	mohammad	Supervise On	8/7/2024 2:40:34 AM
SubDirectory	BN080324	HP Acquire Method	BNA_N, 8270_HP Processing Method bn071124
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6569,SP6568,SP6567,SP6566,SP6565,SP6564,SP6563		
CCC	SP6567		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	PB162464BL	PB162464BL	BN033229.D	03 Aug 2024 09:11		MA/JU	Ok,M
20	PB162464BS	PB162464BS	BN033230.D	03 Aug 2024 09:47		MA/JU	Ok,M
21	P3440-01	923-K1-WS-080124	BN033231.D	03 Aug 2024 10:24		MA/JU	Ok,M
22	P3440-02MS	923-K1-WS-080124MS	BN033232.D	03 Aug 2024 11:00		MA/JU	Ok,M
23	P3440-03MSD	923-K1-WS-080124MS	BN033233.D	03 Aug 2024 11:36		MA/JU	Ok,M
24	P3440-04	922-K1-WS-080124	BN033234.D	03 Aug 2024 12:12		MA/JU	Ok,M
25	P3451-01	921-J-WS-080124	BN033235.D	03 Aug 2024 12:48		MA/JU	Ok,M
26	P3410-01DL	GW-S-864-9-14-073024	BN033236.D	03 Aug 2024 13:24		MA/JU	Ok,M
27	P3426-02RE	927-K1-WS-073124-FD	BN033237.D	03 Aug 2024 14:00	Internal Standard Fail	MA/JU	Confirms
28	SP6586	SP6586	BN033238.D	03 Aug 2024 14:36	SP6586--8270-SIM SURROGATE	MA/JU	Ok,M

M : Manual Integration

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

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 08/01/2024

Extraction Start Time : 08:58

Extraction End Date : 08/01/2024

Extraction End Time : 15:10

Concentration By: RS

Supervisor By : rajesh

Extraction Method: ☒ Seperatory Funne ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6572
Surrogate	1.0ML	0.4 PPM	SP6541
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	E3771
Baked Na2SO4	N/A	EP2518
H2SO4 1:1	N/A	EP2499
10N NaoH	N/A	EP2514
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted to < 2 with 1:1 H2SO4 and > 11 with 10N NaOH, 1.5ML Vial Lot # 2210673.P3426-02 Limited volume recd. P3429-01,02,03 Added in batch at 10:10.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/01/24	RP (Raj, Raj)	RC / SVOC
15:15	Preparation Group	Analysis Group

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

Concentration Date: 08/01/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol.(mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB162424BL	SBLK424	SVOC-SIMGro up1	1000	6	RUPESH	ritesh	1			SEP-1
PB162424BS	SLCS424	SVOC-SIMGro up1	1000	6	RUPESH	ritesh	1			2
P3410-01	GW-S-864-9-14-073024	SVOC-SIMGro up1	960	6	RUPESH	ritesh	1	C		3
P3415-03	MLS-15-70-85	SVOC-SIMGro up1	960	6	RUPESH	ritesh	1	D		4
P3415-04	P3415-03MS	SVOC-SIMGro up1	960	6	RUPESH	ritesh	1	D		5
P3415-05	P3415-03MSD	SVOC-SIMGro up1	960	6	RUPESH	ritesh	1	D		6
P3416-01	MLS-15-106-121	SVOC-SIMGro up1	890	6	RUPESH	ritesh	1	B		7
P3416-02	MLS-15-135-150	SVOC-SIMGro up1	980	6	RUPESH	ritesh	1	B		8
P3416-03	MLS-15-9999	SVOC-SIMGro up1	970	6	RUPESH	ritesh	1	B		9
P3426-01	927-K1-WS-073124	SVOC-SIMGro up1	950	6	RUPESH	ritesh	1	E		10
P3426-02	927-K1-WS-073124-FD	SVOC-SIMGro up1	500	6	RUPESH	ritesh	0.5	E		11
P3429-01	926-K1-WS-073124	SVOC-SIMGro up1	990	6	RUPESH	ritesh	1	F		12
P3429-02	931-K1-WS-073124	SVOC-SIMGro up1	980	6	RUPESH	ritesh	1	F		13
P3429-03	925-K1-WS-073124	SVOC-SIMGro up1	990	6	RUPESH	ritesh	1	F		14

* Extracts relinquished on the same date as received.

16244
10:00 AM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3429

WorkList ID : 182288

Department : Extraction

Date : 08-01-2024 10:00:45

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3429-01	926-K1-WS-073124	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	07/31/2024	8270-Modified
P3429-01	926-K1-WS-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3429-02	931-K1-WS-073124	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	07/31/2024	8270-Modified
P3429-02	931-K1-WS-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3429-03	925-K1-WS-073124	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	07/31/2024	8270-Modified
P3429-03	925-K1-WS-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3430-01	927-K1-WP0-0-0.25-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3430-02	927-K1-WP0-0-0.25-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3430-03	926-K1-WP0-0-0.25-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3430-04	931-K1-WP0-0-0.25-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E
P3430-05	925-K1-WP0-0-0.25-073124	Water	SVOCMS Group6	Cool 4 deg C	JACO05	D31	07/31/2024	8270E

Date/Time 08/01/24 10:05
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: RM SM

Date/Time 08/01/24 10:25
Raw Sample Received by: RM SM
Raw Sample Relinquished by: RS (Ext Lab)

8:58
mo
162424

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3416

WorkList ID : 182260

Department : Extraction

Date : 08-01-2024 08:08:28

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3415-03	MLS-15-70-85	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3415-04	P3415-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3415-05	P3415-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3416-01	MLS-15-106-121	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3416-02	MLS-15-135-150	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3416-03	MLS-15-9999	Water	SVOC-SIMGroup1	Cool 4 deg C	TECH05	N21	07/30/2024	8270-Modified
P3426-01	927-K1-WS-073124	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	E21	07/31/2024	8270-Modified
P3426-02	927-K1-WS-073124-FD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	E21	07/31/2024	8270-Modified

Date/Time 08/01/24 8:50

Raw Sample Received by: RP (Esty 104)

Raw Sample Relinquished by: AS

P3426-SVOC-SIMGroup1

Date/Time 08/01/24 9:35

Raw Sample Received by: AS

Raw Sample Relinquished by: RP (Esty 104)

Prep Standard - Chemical Standard Summary

Order ID : P3426
Test : SVOC-SIMGroup1
Prepbatch ID : PB162424,
Sequence ID/Qc Batch ID: BN080324,

Standard ID :
EP2499,EP2514,EP2518,SP6516,SP6527,SP6541,SP6547,SP6548,SP6562,SP6563,SP6564,SP6565,SP6566,SP6567,S
P6568,SP6569,SP6572,SP6573,

Chemical ID :
E3551,E3657,E3743,E3746,E3759,E3763,E3768,E3769,E3771,M5037,S10102,S10247,S10782,S10977,S 11003,S11012,S
11096,S11434,S11566,S11766,S11767,S12023,S12029,S12075,S12096,S12097,S 12112,S12117,S12118,W2606,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>
314	1.1 H2SO4 SOLN	EP2499	06/17/2024	10/24/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 06/17/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W2606 = Final Quantity: 2000.000 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>
1874	10 N SODIUM HYDROXIDE SOLN	EP2514	07/17/2024	01/17/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 07/17/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 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	EP2518	07/26/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Rajesh Parikh 07/26/2024

FROM 1.00000gram of E3551 = Final Quantity: 4000.000 gram

(EX-SC-2)

<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	SP6516	05/21/2024	10/30/2024	Jagrut Upadhyay	None	None	mohammad ahmed 05/21/2024

FROM 0.02000ml of S12023 + 0.98000ml of E3743 = Final Quantity: 1.000 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	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

<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	SP6541	06/27/2024	11/21/2024	Rahul Chavli	None	None	mohammad ahmed 07/05/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3763 = 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM SOURCE
0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 +
0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = 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>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM SOURCE
0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6562	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.03350ml of S10102 + 0.05000ml of S11434 + 0.12500ml of S10782 + 0.12500ml of S12112 + 0.25000ml of S11096 +
0.25000ml of S12075 + 24.16650ml of E3768 = Final Quantity: 25.000 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>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6563	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6562 = Final Quantity: 1.010 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>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6564	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.68000ml of E3768 + 0.01000ml of SP6516 + 0.32000ml of SP6562 = 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>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6565	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.84000ml of E3768 + 0.01000ml of SP6516 + 0.16000ml of SP6562 = Final Quantity: 1.010 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>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6566	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.92000ml of E3768 + 0.01000ml of SP6516 + 0.08000ml of SP6562 = 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>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6567	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.96000ml of E3768 + 0.01000ml of SP6516 + 0.04000ml of SP6562 = Final Quantity: 1.010 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>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6568	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.50000ml of E3768 + 0.01000ml of SP6516 + 0.50000ml of SP6567 = 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>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6569	07/10/2024	08/26/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/11/2024

FROM 0.75000ml of E3768 + 0.01000ml of SP6516 + 0.25000ml of SP6567 = Final Quantity: 1.010 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>
3492	8270-SIM-Spike 0.4 PPM	SP6572	07/12/2024	10/26/2024	Rahul Chavli	None	None	Yogesh Patel
07/30/2024								

FROM 0.00080ml of S11012 + 0.01000ml of S11767 + 0.02000ml of S11566 + 0.02000ml of S12097 + 0.02000ml of S12118 +
49.92920ml of E3769 = Final Quantity: 50.000 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>
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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/16/2024	05/16/2024 / Rajesh	04/26/2024 / Rajesh	E3743

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)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	12/25/2024	06/25/2024 / Rajesh	06/20/2024 / Rajesh	E3763

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)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	01/12/2025	07/12/2024 /	07/02/2024 / Rajesh	E3769

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)	24F1062004	01/19/2025	07/19/2024 / Rajesh	07/16/2024 / Rajesh	E3771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	09/29/2024	03/29/2024 / Jagrut	12/09/2021 / Christian	S10102

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

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	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/a mpul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

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	10/26/2024	04/26/2024 / Rahul	01/13/2023 / Christian	S11012

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	01/09/2025	07/09/2024 / Jagrut	02/07/2023 / Christian	S11096

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	503442	08/26/2024	07/09/2024 / Jagrut	07/26/2023 / yogesh	S11434

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

[CS 4978-1]

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	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

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	01/12/2025	07/12/2024 / Rahul	11/21/2023 / Rahul	S11767

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	A0201320	10/30/2024	04/30/2024 / Rahul	12/21/2023 / Rahul	S12023

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	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	11/14/2024	05/14/2024 / Jagrut	01/31/2024 / Rahul	S12075

CHEMICAL RECEIPT LOG BOOK

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	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

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	01/09/2025	07/09/2024 / Jagrut	02/05/2024 / Rahul	S12097

[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	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/10/2025 / Jagrut	03/15/2024 / Rahul	S12118

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

CHEMICAL RECEIPT LOG BOOK

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 / lwona	07/03/2024 / lwona	W3112

- 1
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- 16
- 17



5580 Skylane Blvd
Santa Rosa, CA 95403

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(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-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
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Receivalon
02/07/23 by CG

Sheet 511096
to
511099

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

Brianna Smith

Certified By: _____

Brianna 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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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
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

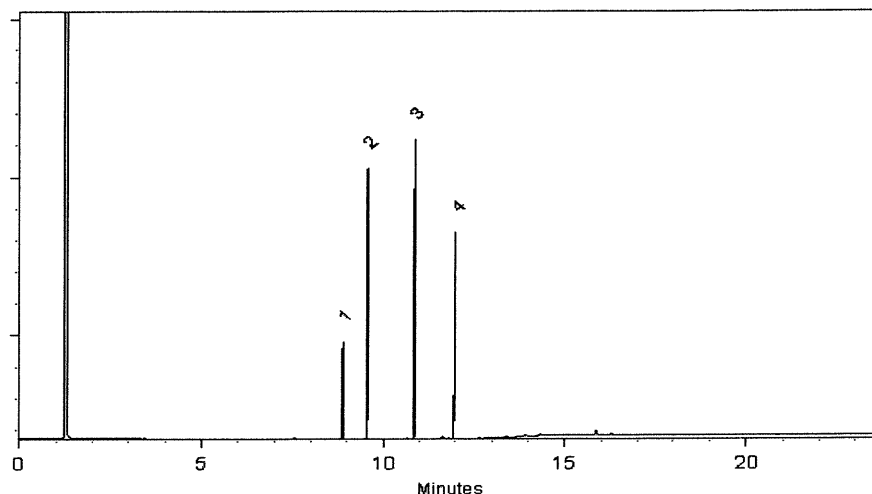
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
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Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

Received on
09/07/22
by
CG
S10778
to
S10782

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 CAS # 7297-45-2 (Lot EF-135) Purity 96%	2,015.0 µg/mL	+/- 11.8254 µg/mL Gravimetric +/- 90.7728 µg/mL Unstressed +/- 100.7207 µg/mL Stressed
2	Fluoranthene-d10 CAS # 93951-69-0 (Lot PR-20668) Purity 99%	2,007.0 µg/mL	+/- 11.7782 µg/mL Gravimetric +/- 90.4107 µg/mL Unstressed +/- 100.3188 µg/mL Stressed
Solvent:	Methylene chloride CAS # 75-09-2 Purity 99%		

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

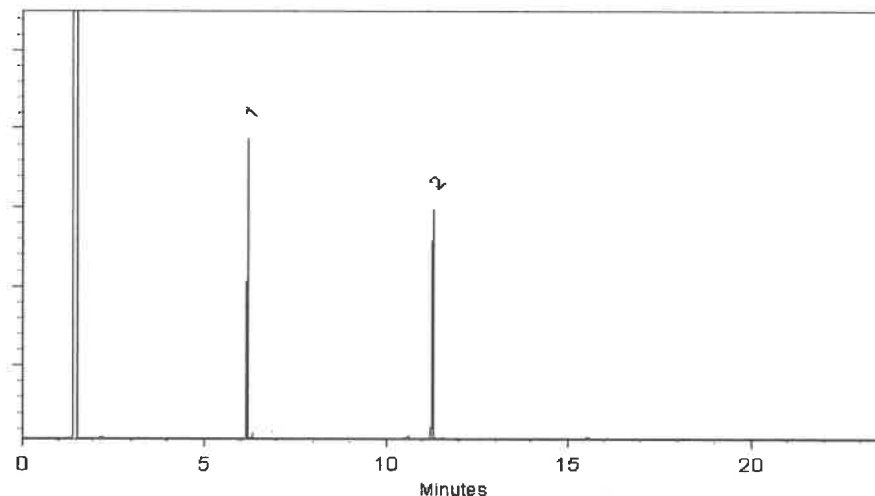
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022

Balance: B442140311

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

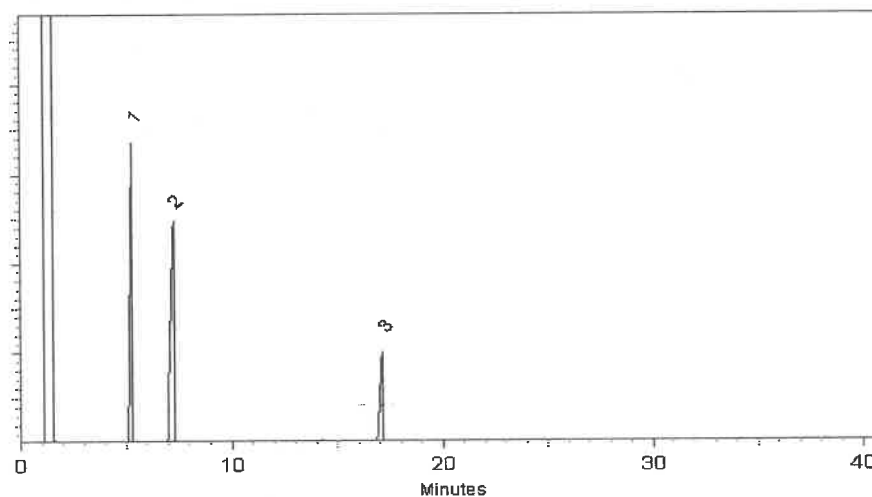
250°C

Det. Temp:

330°C

Det. Type:

FID



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: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

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Received by
CG on
12/28/22
\$10981
to
\$11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

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.

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

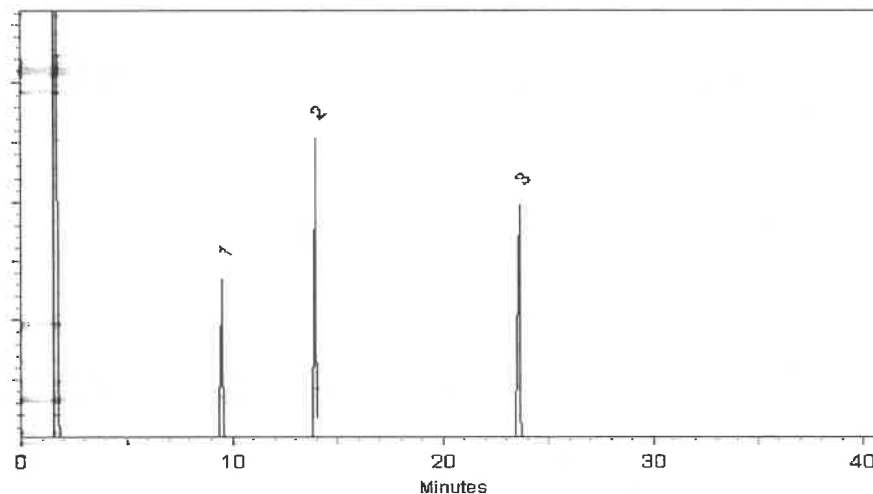
250°C

Det. Temp:

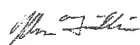
330°C

Det. Type:

FID



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.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022

Balance: 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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gravimetric



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Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na 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 foreign 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 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

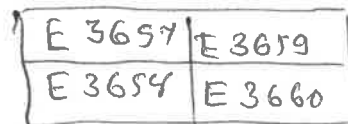
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



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	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration 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: MG24A04224

E 3743


Ken Koehnlein
Sr. Manager, Quality Assurance

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
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	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration 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: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ₂ Cl 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
Titration 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


Jamie Croak
Director Quality Operations, Bioscience Production

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
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration 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

E 3763

Recd. by RP on 6/20/24

Ken Koehnlein
Sr. Manager, Quality Assurance

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)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 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
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration 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 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
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	7
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	0.1 ppm
Titration 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: MG24D15750

E 3771


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

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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 - Iron (Fe)	≤ 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	≤ 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	≤ 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
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 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

511434 } Y.P.
07/20/23
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-110094-02	503442	≤ -10 °C	Methylene Chloride	8/26/2024	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5052 ± 122.61
2-fluorobiphenyl	321-60-8	99.7	8.7.1.1P	5005 ± 121.47
nitrobenzene-d ₅	4165-60-0	100	7.9.2P	5040 ± 122.21
p-terphenyl-d ₁₄	1718-51-0	99.6	9.12.9P	5027 ± 122

*Not a certified value

Certified By: _____

Joanna Radu
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

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.: A0201940

Description :

Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size :

2 mL

Expiration Date :

September 30, 2025

Handling:

This product is photosensitive.

Pkg Amt: > 1 mL

Storage: 10°C or colder

Ship: Ambient

511539
↓
51568
7.6
0911

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent:

Methylene chloride

CAS # 75-09-2

Purity 99%

REVIEWED

By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023

Balance: B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

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 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

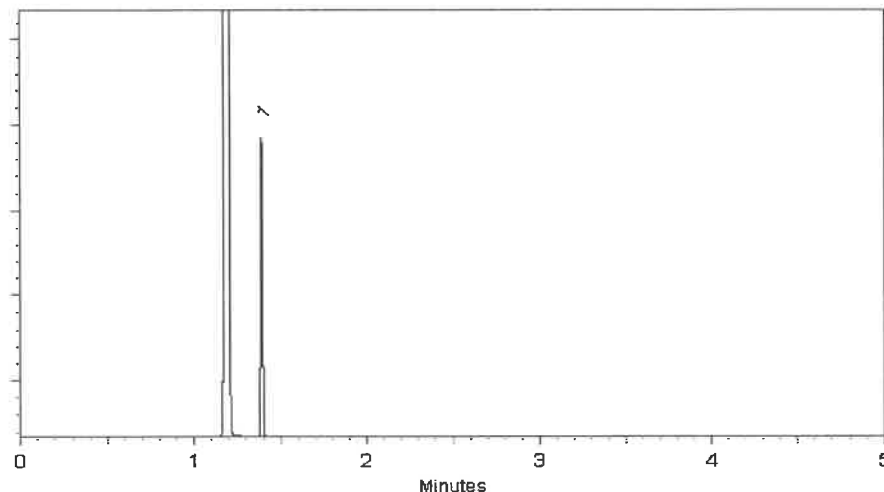
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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Fax: 1-814-353-1309

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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. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

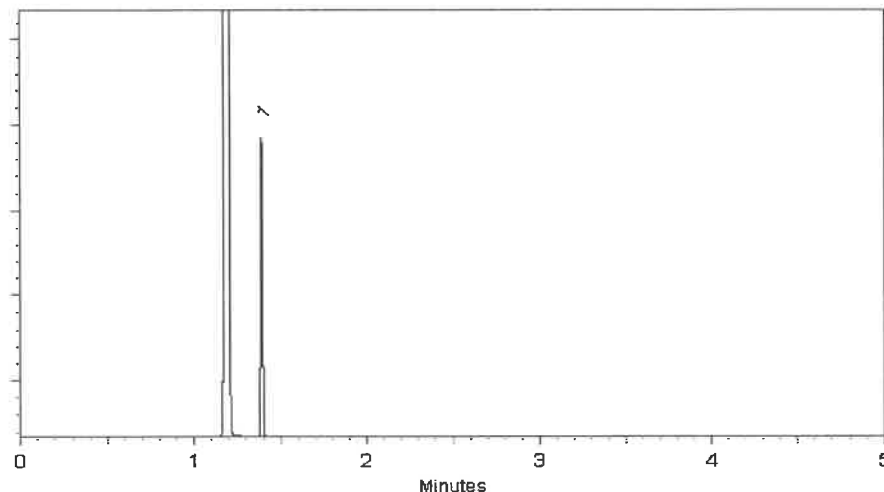
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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

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

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

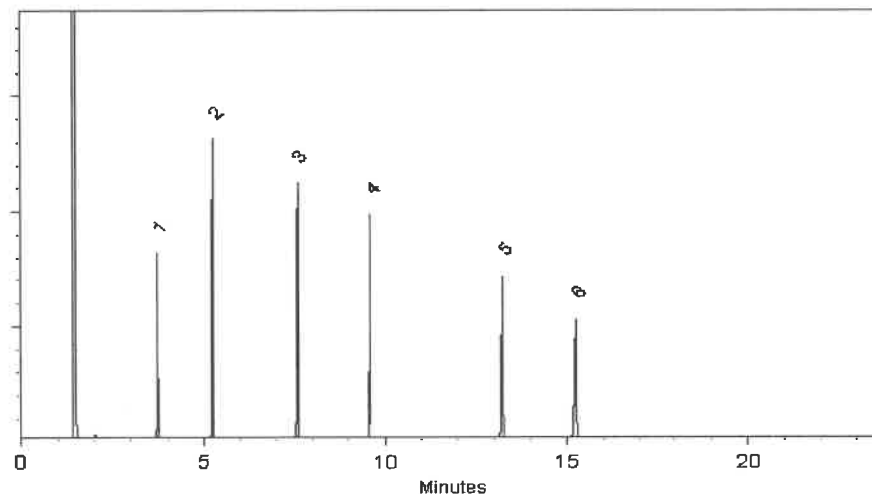
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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

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

S12013
↓
S12042 } RC
12/26/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

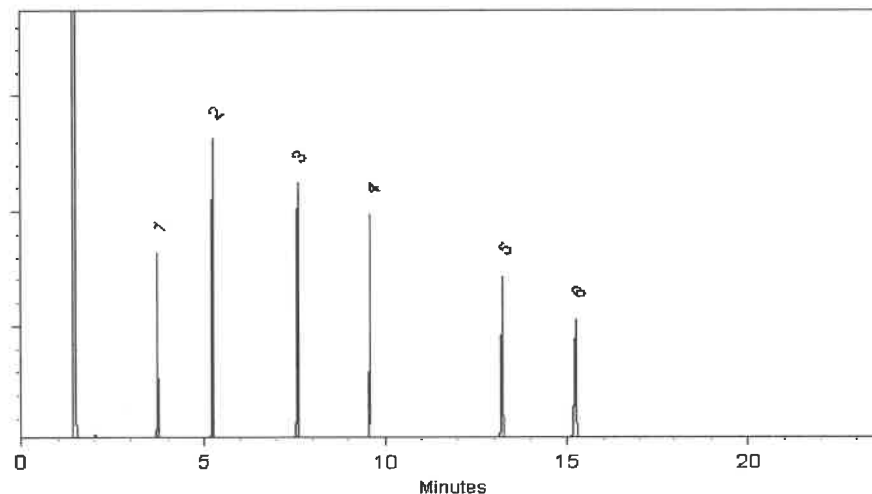
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023

Balance Serial # B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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: _____

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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075 } RC
↓
S12079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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. : 555224 **Lot No.:** A0207706

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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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.:** A0207706

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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by TUV USA to ISO 9001:2015

Date Received: _____

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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 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 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	1
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	2
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	3
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	4
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	5
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	6
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	7
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	8
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	9
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	10
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	11
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	12
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	13
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	14
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	15
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	16
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	17
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	BCKK0887	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
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. : 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 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
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	

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55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
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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
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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%



SHIPPING DOCUMENTS

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CHEMTECH

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(908) 789-8900 • Fax (908) 789-8922
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CHEMTECH PROJECT NO. P3426
QUOTE NO. 2041303
COC Number

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #100
CITY: Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yankel
PHONE: _____ FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3779922 LOCATION: Prince bn Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: _____ FAX: _____

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

10-1026 82600
SUBST PAK 8210E1
9210E SIM
Metals 10205114
7/31/08
C-1717-79922

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	E							← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	927-KI-WS-073121	WS		X	7/31/24	1050	6	2	2	1	1							See attached table for analyses
2.	927-KI-WS-073121-FD	WS		X	7/31/24	1055	5	2	1	1	1							
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>[Signature]</u>	DATE/TIME: 7/31/24 1220	RECEIVED BY: 1. <u>[Signature]</u>	DATE/TIME: 7-31-24 1220	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	DATE/TIME:	Comments: <u>if preservation is HNO3</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: 7-31-24 1430	RECEIVED BY: 3. <u>[Signature]</u>	DATE/TIME:	See attached table for required analytes list of ECO-VOCs, ECO-SVOCs, and ECO Metals

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P3426	JACO05	Order Date : 7/31/2024 2:33:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger Site I	Report Type : Level 4
Client Contact : Mary I. Murphy		Receive DateTime : 7/31/2024 2:30:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : Mary I. Murphy			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P3426-01	927-K1-WS- ~~072124~~ 073124	Water	07/31/2024	10:50					
					VOCMS Group6		8260-Low		~~5~~ Bus. Days 10Bus
P3426-02	927-K1-WS- ~~072124~~ -FD 073124	Water	07/31/2024	10:55					
					VOCMS Group6		8260-Low		~~5~~ Bus. Days 10

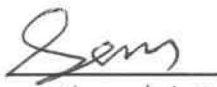
Relinquished By :

Date / Time :


7-31-24 1500

Received By :

Date / Time :


7/31/24 15:00 Ng 4

Storage Area : VOA Refridgerator Room